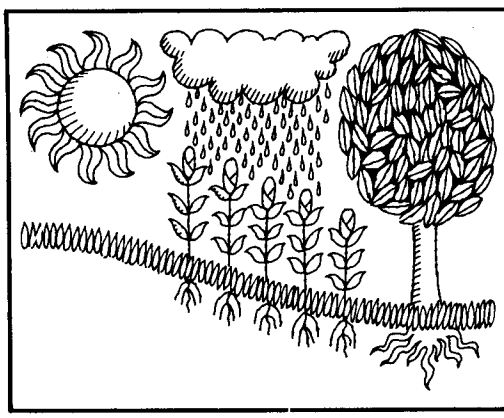

Weekly Weather & Crop Bulletin

U. S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
Environmental Data Service

U. S. DEPARTMENT OF AGRICULTURE
Statistical Reporting Service

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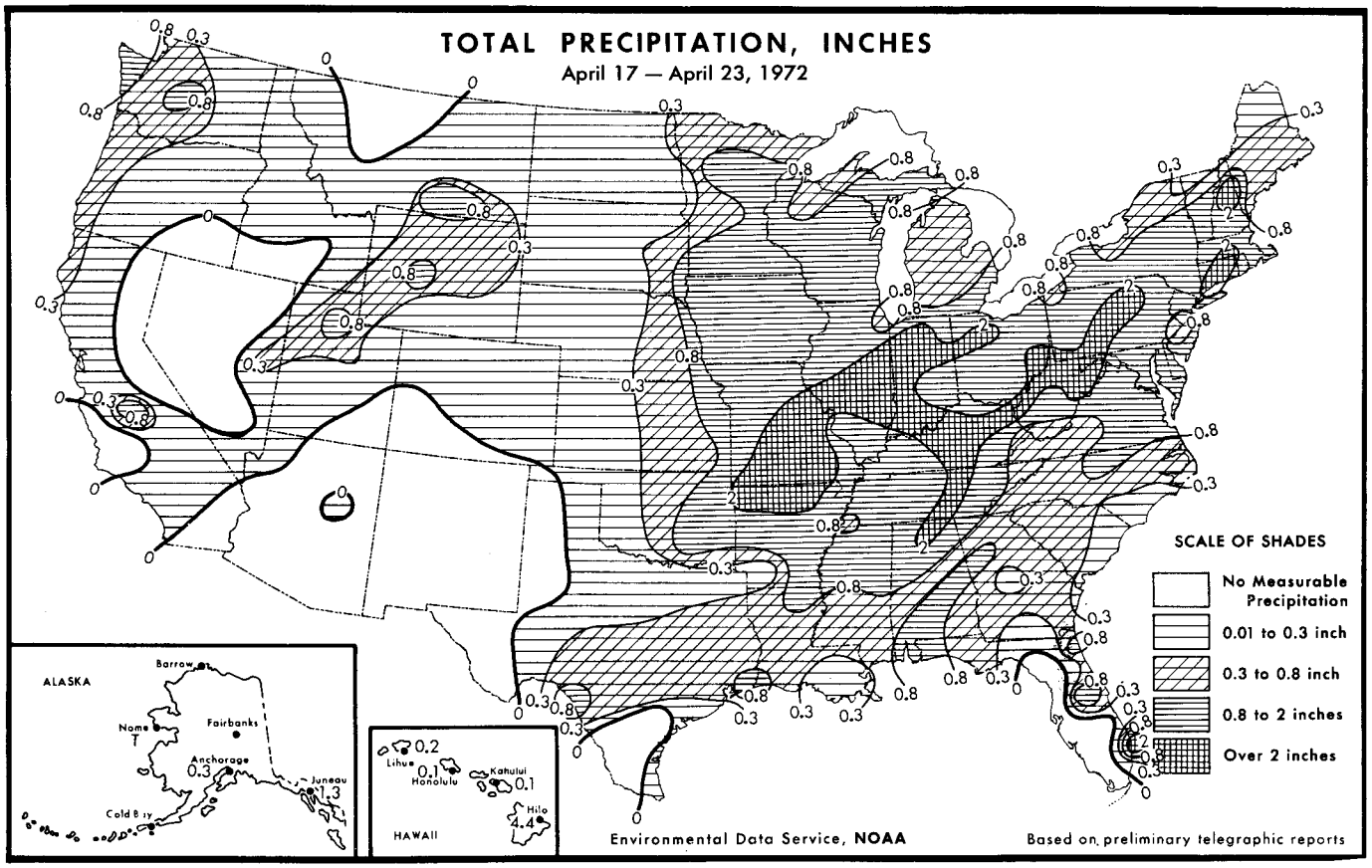
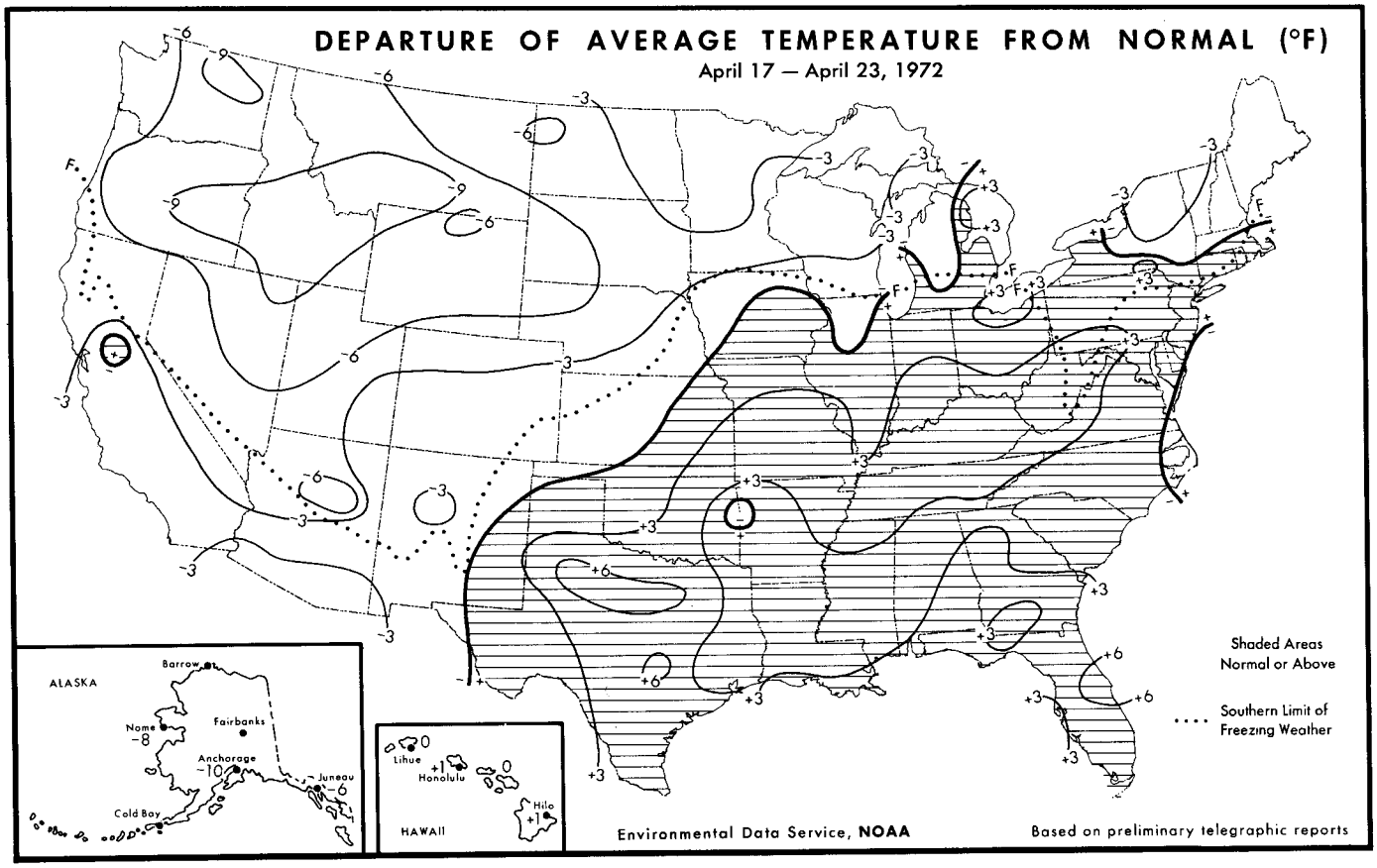


NATIONAL WEATHER SUMMARY

HIGHLIGHTS: Arizona and New Mexico received only widely scattered light sprinkles continuing the pattern that has prevailed since late December. Violent thunderstorms and a few tornadoes occurred in the middle Mississippi River Valley. Heavy snow fell late in the week from eastern Minnesota to Upper Michigan.

PRECIPITATION: Winter lingered over the northern States early in the week. Stormy weather prevailed over the northwestern quarter of the Nation. Light rain fell along the Pacific coast. Snow and cold rain fell in the nearby hills and mountains and eastward to the Upper Mississippi River Valley. Some of the showers in the northern Great Plains were accompanied by lightning, thunder, and, in some places, hail and gusty winds. Several inches of snow whitened the central Rocky Mountains and the western edge of the Great Plains in South Dakota and the Nebraska Panhandle. Highway travel was difficult and young livestock required more attention and care because of the continuing wintry weather. A few tornadoes were seen in Oklahoma, Missouri, and Arkansas. The reports are scanty, however, and their effects cannot be evaluated at this time.

About midweek a quasi-stationary front stretched from the Texas Panhandle to Pennsylvania. A band of wet and windy weather occurred along the front. Rain or drizzle fell in Kansas, thunderstorms popped up from Nebraska and the Texas Panhandle to the western portions of Kentucky and Tennessee. Rains fell from the Ohio River Valley to southern New England and snow whitened much of Vermont, New Hampshire, and western and northern Maine.



Cyclogenesis occurred in southeastern Kansas shortly after midweek. The storm intensified and moved northeastward to the Great Lakes and into Canada. It produced generous precipitation over Missouri and nearby States Thursday and over the eastern third of the Nation over the weekend. Hail pelted portions of northern Texas and northwestern Arkansas. Tornadoes occurred in Arkansas, Illinois, Kentucky, and Tennessee. Several inches of wet snow fell in Minnesota, Wisconsin, and Upper Michigan. A 5-inch snow at Minneapolis, Minn., prevented the playing of a major league baseball game. At Marquette, Mich., 6 inches of new snow brought the total snow cover to 21 inches. The storm weakened as it moved into Canada.

Weekly precipitation totals exceeded 2.00 inches over an irregular area from southern Missouri to central Pennsylvania. Most of the western half of the Nation received less than 0.25 inch. Arizona, New Mexico and nearby parts of neighboring States received no rain or only widely scattered sprinkles.

TEMPERATURE: Winter temperatures prevailed over the northern border States early in the week. Balmy weather occurred across the South. On Monday a High was centered over the middle Mississippi River Valley. Southerly breezes on the back side of the High warmed the Great Plains from eastern Nebraska to Texas. Norfolk, Nebr., registered 84° Monday afternoon. St. Joseph, Mo., recorded 88° Tuesday. Cold air pushed southward and on Wednesday and Thursday afternoons, temperatures in Nebraska remained in the 40's.

At midweek a quasi-stationary front stretched from the Texas High Plains to Pennsylvania. Cold temperatures predominated north of the front; summerlike weather prevailed south of the front. Maximums across the South were generally in the 80's. A number of Texas stations warmed to the 90's. Cotulla registered 98° Wednesday and 97° Thursday. Subfreezing weather occurred frequently in the Great Basin and the Rocky Mountains. Redmond, Oreg., recorded 10° Tuesday morning and Ely, Nev., 10° Wednesday. Wednesday afternoon was especially mild along the Atlantic Seaboard. The temperature at La Guardia Field on Long Island soared to 86°. Albany, N.Y., registered 80° Wednesday afternoon but by Friday morning the mercury had tumbled to 30°.

Weekend weather was mostly clear and cool over the West and from the northern Great Plains to the Northeast. Balmy afternoon temperatures persisted across the South. Maximums across the South Sunday ranged from the 90's in southern California (98° at Blythe) to the 80's over the Carolinas, Georgia, and Florida (89° at Fort Myers).

Temperatures averaged cooler than normal from the Pacific Ocean to the Great Lakes in the north and to New Mexico in the south. The northern portions of New York and New England were also cooler than normal. A large area from Oregon to Wyoming averaged 6° to 10° cooler than normal.

L. W. Dye

NATIONAL AGRICULTURAL SUMMARY

AGRICULTURAL HIGHLIGHTS: Rain delays planting in Corn Belt. * More rain needed western Plains wheat area. * Pasture growth slow.

SMALL GRAINS: Rains benefited the dry wheat crop on the Great Plains. Rain fell from the eastern portion of Texas northward to the Canadian Border and eastward across the United States. The southern States received very little moisture except on the weekend. The northwestern portion of Texas received only scattered traces of rain as did western parts of Oklahoma and Nebraska. More moisture is still needed in these areas.

Cool weather has retarded grain development in the northern and eastern States and the crops are just now starting to green up. In the south grain is heading. However, rust continues to be a problem from Louisiana to South Carolina.

Oat planting was delayed by rain in the eastern Corn Belt and northeastern sections of the Nation. Seeding remains behind normal and last year. In the eastern Corn Belt, fields are too muddy to work or flooded. In Washington and Oregon, cold wet weather continues to delay planting.

CORN: Rain reduced fieldwork in the Corn Belt. Farmers continue behind last year and later than normal in plowing fields. Planting had started in most all of the Corn Belt States as weather permitted, but is behind last year's early spring. In Indiana and Ohio, fields were too wet to plant. In Texas, Louisiana, Georgia, and South Carolina the crop is over 2/3 planted. In the remainder of the South, field conditions were nearly excellent and planting moved forward at a rapid pace.

COTTON: Planting in the South moved at a rapid pace with nearly ideal weather. Cotton planting in Texas is 26% complete and is nearly completed in California and Georgia. In most other cotton producing states, over 1/4 of the crop is planted In Arizona the crop is developing well and is advanced in the Yuma area.

OTHER CROPS: The continued wet spring is delaying the beginning of fieldwork from the Northern Plains to New England and down the North Atlantic Coast.

Rains in Kentucky caused loss of some tobacco plants from washing and packing of the soil. Mold is causing some loss of burley tobacco plants in Virginia. Peanut planting made rapid progress in the south. Over 80% of the Colorado sugar beet crop is seeded and is making excellent progress. Some reseeding is necessary in Idaho as a result of freezing weather.

Some soybean acreage was planted in the south. Southwest Idaho potato growers have about half of their acreage planted. Planting on Long Island, New York, was brought to a standstill by rain. Digging of the Kern County California crop continues.

Fruits and Nuts: Freezing temperatures continued to cause losses of fruit in the Pacific Northwest. Orchard men kept their heating equipment operating to reduce damage to pears and cherries. More damage also occurred in Idaho and Utah. California: Peaches, plums, nectarines, and prunes are sizing normally. Frost-damaged almonds continue dropping heavily.

Peach trees were in bloom in the eastern states as far north as Pennsylvania. Fruit tree buds in the Hudson valley of New York are in the green tip stage.

Vegetables: A wet week delayed planting and setting along the eastern Seaboard. In New York, planting was at a standstill except in higher well drained soils.

Cabbage, celery, and tomatoes continue in full volume from Florida. Strawberry harvest is near the peak in California. Cauliflower harvest is heavy in Salinas. Lettuce movement is increasing sharply in the Salinas-Watsonville area. In the lower Rio Grande Valley of Texas, onion harvest is past the peak. Coastal Bend onion harvest continues.

PASTURES AND LIVESTOCK: Pastures and ranges continue slow growth. Dry conditions in the southwest continued the decline of ranges. In other areas of the Western United States, cool temperatures have retarded range grass growth. In eastern and northeastern states many pastures were too wet to be grazed. Southern States pastures need moisture but are providing adequate grazing.

Movement of livestock to spring ranges in the West is underway. Livestock are in good condition. Supplemental feeding continues active in the western states.

Neil Gum
Agricultural Statistician

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., APRIL 23, 1972

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. . .	67	+ 2	.8	- .1	New Orleans . . .	72	+ 3	.2	- .9	OKLA.Okla. City . .	65	+ 3	.7	- .1
Mobile.	72	+ 3	.8	- .5	Shreveport. . . .	68	+ 1	.6	- .5	Tulsa	65	+ 4	1.6	+ .6
Montgomery. . . .	70	+ 4	1.0	0	MAINE.Caribou . . .	38	- 1	.2	- .4	OREG.Astoria. . . .	47	- 3	.8	- .3
ALASKA.Anchorage. .	28	-10	.3	+ .2	Portland.	44	- 1	.4	- .4	Burns	38	-10	T	- .2
Barrow.	--	---	---	----	MD.Baltimore. . . .	58	+ 2	1.7	+ .9	Medford	46	- 6	T	- .3
Fairbanks	--	---	---	----	MASS.Boston	--	---	---	----	Pendleton	46	- 7	.2	- .1
Juneau.	34	- 6	1.3	+ .6	Chatham	44	---	2.6	----	Portland.	48	- 5	.3	- .2
Nome.	16	- 8	T	- .1	MICH.Alpena	47	+ 5	.8	+ .2	Salem	44	- 8	.5	0
ARIZ.Flagstaff. . .	37	- 8	0	- .3	Detroit	50	+ 1	1.0	+ .3	PA.Allentown. . . .	54	+ 2	.9	0
Phoenix	68	- 1	0	- .1	Flint	47	+ 1	.5	- .2	Erie	46	0	.4	- .5
Tucson.	62	- 5	0	- .1	Grand Rapids. . .	48	0	.5	- .2	Harrisburg. . . .	57	+ 3	1.2	+ .5
Winslow	50	- 8	T	- .1	Houghton Lake . .	42	- 1	.8	+ .2	Philadelphia. . .	56	+ 2	.8	0
Yuma.	68	- 4	T	0	Lansing	47	- 1	.6	- .2	Pittsburgh. . . .	54	+ 3	1.3	+ .6
ARK.Fort Smith. . .	63	- 1	1.9	+ .8	Marquette	37	- 5	1.0	+ .3	Scranton.	51	0	1.0	+ .2
Little Rock . . .	66	+ 2	.9	- .2	Muskegon.	48	+ 1	.5	- .2	R.I.Providence. . .	50	+ 1	2.0	+1.1
CALIF.Bakersfield .	62	- 2	0	- .2	S.Ste.Marie . . .	39	- 2	1.4	+ .9	S.C.Charleston. . .	68	+ 1	T	- .6
Eureka.	47	- 4	.7	+ .1	MINN.Duluth	36	- 4	1.3	+ .7	Columbia.	67	+ 2	.7	- .2
Fresno.	60	- 2	.8	+ .5	Internatl Falls .	40	- 1	.3	- .1	Greenville. . . .	63	0	.7	- .2
Los Angeles . . .	61	- 2	T	- .2	Minneapolis . . .	44	- 3	1.0	+ .5	S.DAK.Aberdeen. . .	44	- 3	.1	- .4
Red Bluff	57	- 5	.1	- .3	Rochester	44	- 3	1.4	+ .9	Huron	45	- 3	.3	- .2
San Diego	60	- 2	T	- .1	St. Cloud	43	- 3	.7	+ .2	Rapid City. . . .	40	- 8	.2	- .2
San Francisco . .	54	- 3	.1	- .2	MISS.Jackson. . . .	68	+ 2	.5	- .5	Sioux Falls . . .	44	- 5	1.0	+ .4
Stockton.	61	0	0	- .2	Meridian.	68	+ 2	.6	- .5	TENN.Chattanooga. .	64	+ 1	1.9	+1.0
COLO.Denver	45	- 3	.1	- .4	MO.Columbia	61	+ 4	2.6	+1.8	Knoxville	66	+ 5	1.5	+ .7
Grand Junction. .	53	- 2	T	- .1	Kansas City . . .	61	+ 3	1.8	+ .9	Memphis	68	+ 5	.4	- .6
Pueblo.	51	- 2	T	- .3	St. Louis	61	+ 4	1.4	+ .5	Nashville	66	+ 4	1.3	+ .4
CONN.Bridgeport . .	51	+ 1	2.4	+1.6	Springfield . . .	62	+ 4	2.0	+1.0	TEX.Abilene	72	+ 6	.7	+ .1
Hartford.	52	+ 2	2.3	+1.5	MONT.Billings . . .	39	-10	.8	+ .5	Amarillo.	61	+ 1	T	- .3
D.C.Washington. . .	60	+ 2	1.6	+ .9	Glasgow	42	- 4	T	- .3	Austin.	75	+ 6	.4	- .6
FLA.Apalachicola. .	74	+ 5	.5	- .5	Great Falls . . .	39	- 7	T	- .2	Beaumont.	70	0	1.2	+ .2
Ft. Myers	77	+ 3	T	- .6	Havre	41	- 5	T	- .2	Brownsville . . .	79	+ 4	T	- .4
Jacksonville. . .	74	+ 4	1.0	+ .2	Helena.	37	- 9	T	- .2	Corpus Christi. .	78	+ 5	T	- .5
Key West.	81	+ 4	0	- .6	Kalispell	39	- 7	---	----	Dallas	73	+ 6	.2	- .8
Lakeland.	77	+ 4	0	- .8	Miles City. . . .	43	- 6	.2	- .1	Del Rio	75	+ 2	1.5	+1.2
Miami	79	+ 4	0	-1.0	Missoula.	40	- 7	T	- .2	El Paso	64	- 1	0	- .1
Orlando	79	+ 7	.9	+ .1	NEBR.Grand Island .	50	- 2	.5	- .1	Fort Worth. . . .	73	+ 6	.2	- .7
Tallahassee . . .	71	+ 2	.3	- .7	Lincoln	53	- 1	1.6	+1.0	Galveston	74	+ 4	.3	- .4
Tampa	76	+ 3	T	- .6	Norfolk	48	- 3	.6	+ .1	Houston	71	+ 2	.7	- .1
GA.Atlanta.	66	+ 5	.9	0	North Platte. . .	46	- 4	T	- .5	Lubbock	67	+ 6	0	- .3
Augusta	67	+ 2	.5	- .3	Omaha	50	- 2	1.2	+ .6	Midland	69	+ 2	.3	+ .1
Macon	70	+ 3	.2	- .6	Valentine	43	- 6	.2	- .3	San Angelo. . . .	73	+ 4	.4	- .2
Savannah.	71	+ 4	.2	- .7	NEV.Ely	37	- 7	.6	+ .4	San Antonio . . .	75	+ 5	.6	- .1
HAWAII.Hilo	73	+ 1	4.4	+1.8	Las Vegas	61	- 5	.1	+ .1	Victoria.	75	+ 4	T	- .5
Honolulu.	76	+ 1	.1	- .1	Reno.	45	- 4	T	- .1	Waco.	72	+ 4	.5	- .5
Kahului	74	0	.1	- .9	Winnemucca. . . .	42	- 6	T	- .2	Wichita Falls . .	70	+ 4	.1	- .6
Lihue	73	0	.2	- .4	N.H.Concord	45	- 1	1.0	+ .2	UTAH.Blanding . . .	48	- 2	0	- .2
IDAHO.Boise	43	-10	.1	- .1	N.J.Atlantic City .	53	0	1.0	+ .2	Salt Lake City. .	45	- 7	1.3	+ .9
Lewiston.	46	- 7	.2	- .1	Trenton	56	+ 2	.7	- .1	VT.Burlington . . .	40	- 4	.3	- .3
Pocatello	40	- 9	.1	- .1	N.MEX.Albuquerque .	55	- 3	0	- .1	VA.Lynchburg. . . .	61	+ 3	.8	+ .1
ILL.Cairo	65	+ 3	2.2	+1.3	Roswell	62	+ 2	0	- .2	Norfolk	60	0	1.0	+ .2
Chicago	52	+ 1	.8	+ .1	N.Y.Albany.	47	- 2	1.5	+ .8	Richmond.	61	+ 1	1.6	+ .8
Moline.	53	+ 1	1.5	+ .8	Binghamton. . . .	49	+ 3	.7	0	Roanoke	61	+ 3	.9	+ .2
Peoria.	53	0	1.6	+ .6	Buffalo	47	+ 1	1.0	+ .3	WASH.Colville . . .	42	- 7	T	- .2
Rockford.	49	- 1	2.2	+ .8	New York.	54	0	1.4	+ .6	Omak.	42	-10	T	- .2
Springfield . . .	57	+ 1	2.0	+1.1	Rochester	48	0	.6	0	Quillayute. . . .	43	- 5	1.1	- .3
IND.Evansville. . .	64	+ 4	1.1	+ .2	Syracuse.	46	- 3	1.6	+ .9	Seattle-Tacoma. .	46	- 5	.4	- .1
Fort Wayne. . . .	51	0	1.3	+ .6	N.C.Asheville . . .	59	+ 1	.4	- .3	Spokane	40	- 9	T	- .2
Indianapolis. . .	57	+ 4	1.9	+1.0	Charlotte	62	0	1.7	+ .9	Walla Walla . . .	47	- 9	T	- .3
South Bend. . . .	50	0	1.1	+ .3	Greensboro. . . .	61	+ 2	1.0	+ .2	Yakima.	44	- 8	.5	+ .4
IOWA.Burlington . .	53	0	1.0	+ .2	Hatteras.	60	- 1	.4	- .1	W.VA.Beckley. . . .	58	+ 5	.9	0
Des Moines. . . .	52	+ 1	1.3	+ .7	Raleigh	62	+ 1	.5	- .3	Charleston. . . .	58	+ 1	1.7	+ .9
Dubuque	49	0	1.3	+ .5	Wilmington. . . .	65	+ 1	T	- .7	Huntington. . . .	61	+ 4	2.2	+1.4
Sioux City. . . .	50	- 2	1.6	+1.0	N.DAK.Bismarck. . .	43	- 4	T	- .3	Parkersburg . . .	60	+ 4	2.4	+1.7
KANS.Concordia. . .	55	0	.5	- .1	Fargo	43	- 2	.2	- .3	WIS.Green Bay . . .	42	- 4	.9	+ .3
Dodge City. . . .	55	- 1	T	- .5	Williston	40	- 6	.1	- .2	La Crosse	47	- 3	1.0	+ .4
Goodland.	50	- 1	T	- .4	OHIO.Akron-Canton .	52	+ 1	1.3	+ .5	Madison	45	- 2	1.2	+ .5
Topeka.	59	+ 2	1.5	+ .5	Cincinnati. . . .	58	+ 4	1.5	+ .7	Milwaukee	43	- 3	1.0	+ .4
Wichita	59	0	.7	+ .1	Cleveland	53	+ 4	1.3	+ .5	WYO.Casper.	38	- 8	.3	- .1
KY.Lexington. . . .	60	+ 4	3.1	+2.2	Columbus.	54	+ 1	1.2	+ .4	Cheyenne.	41	- 4	.1	- .4
Louisville. . . .	62	+ 5	2.6	+1.7	Dayton.	56	+ 3	1.0	+ .2	Lander.	38	- 7	.9	+ .9
LA.Baton Rouge. . .	72	+ 2	T	-1.1	Toledo.	52	+ 3	.9	+ .2	Sheridan.	41	- 5	.6	+ .1
Lake Charles. . .	72	+ 3	.7	- .3	Youngstown. . . .	51	+ 2	1.1	+ .2	P.R. San Juan . . .	79	+ 3	.4	- .4

* Departures are from 30-year means (1931-60). Based on preliminary reports

CONDENSED STATE SUMMARIES

These summaries provide brief descriptions of condition and activities important on a national scale. Detailed reports of crop and weather conditions during the growing season are contained in State issues of Weekly Weather and Crop Bulletins published by field offices of the Statistical Reporting Service, U.S.D.A. in cooperation with NOAA Climatologists.

ALABAMA: Fine weather most of week with warm sunny days and mild nights. Cooler Saturday following showers Friday night and early Saturday. Temperatures averaged more than 5° above normal. Precipitation light to moderate with a few locally heavy rains. Excellent week for planting. About one-half cotton acreage planted south and central Albama and 2/5 in Tennessee valley. Statewide 1/3 planted. Earliest plantings need moisture for germination. Corn planting about 3/5 complete in south Alabama--1/3 statewide. Cotton has priority, especially in northern Alabama. Peanut acreage about 1/3 planted. About 1/2 small grains headed. First harvest Baldwin County potatoes expected about May 1. Sand Mountain Irish potatoes made good growth. Few sweetpotato slips pulled in Cullman County. Tomatoes in Geneva and Houston Counties need rain. Pastures continued to develop nicely. Livestock in fair to good condition.

ARIZONA: Skies mostly clear and temperatures slightly below normal. Only measurable precipitation northern part of State on 18th and 19th but nearly all weekly water totals were less than 0.10 inch. Remainder of State was dry. Cotton development well advanced in Yuma. Recent cooler weather hampered growth somewhat. Planting complete central but cool temperatures hindered planting southeast. Barley and wheat continue to make adequate progress. Early-planted sorghums continue to make adequate growth. Planting underway southeast. Progress of sugar beets generally satisfactory. Good root develop- Yuma. Replanting southeast nearly complete. Early safflower blooming Yuma. Crop making satisfactory development. First cutting of alfalfa hay complete all but southeast. Second cutting begun west. Frost damage noticeable on some hay southeast. Harvest spring lettuce continued seasonal volume Salt River Valley, central areas. Lettuce making good growth Cochise County. Some wind burn. Few tomatoes and chili planted Graham and Greenlee Counties. Cantaloupe thinning, vine turning and insect controls continued Yuma area. Insect counts low. Carrot harvest active. Valencia orange and grapefruit harvest active Yuma and Salt River Valley areas. Large percentage fresh grapefruit going export. Insect controls effective. Range conditions declined again this week. Higher elevation areas generally fair to poor. Desert areas generally poor and dry. Livestock in fair condition.

ARKANSAS: Mild with mean temperatures 1° to 7° above normal. Warm days and cool nights. Highest, 87° at Eudora on 20th and Morrilton on 23d. Lowest 38° at Fayetteville on 24th. Good general rain across State, amounts in excess of 2.00 inches common west, north, and central, while amounts in excess of 1.00 inch fell elsewhere. Gilbert reported most rain with a total of 2.99 inches. Most rainfall occurred middle of week. Preparation seedbeds and planting early-season crops good progress although delayed by rain north. Soil moisture generally adequate, some surplus northeast, but short to very short southern half of State. Cotton planting increased rapidly south, limited progress north. About 10% planted, last year 15%. Rice 65% seeded, some growers in south finished. Wet fields slowed progress northeast. Flushing some fields in south to get stands. Soybean planting very limited, concentrating on other crops. Corn and sorghum planting active. Hay prospects improved by rain in north. Harvest alfalfa for hay and dehydration active south and east. Small grain prospects fair to good, need rain in south to insure a good fill. Peaches developing well major areas. Apples past full bloom, some damage from March frost appearing. Grapes also damaged northwest, excellent prospects west-central. Strawberries good prospects. Good volume expected shortly after May 1. Tomatoes growing well, staking underway. Planting watermelons, cucumbers, and okra good progress. Pastures mostly adequate grazing. Rains very beneficial. Livestock mostly good condition.

CALIFORNIA: Cold, scattered showers east of Sierra Nevadas, south of Tehachapis on 18th, 19th, moderate amounts centered near San Bernardino, San Gabriel Mountains. Light snow above 7,000 feet. Average temperatures 2° to 4° below normal most of State, 5° to 8° below normal Sierra Nevada, Desert. Moderate precipitation, high winds Sacramento Valley, north coast Sunday. Dryland small grains showing effects light moisture. Irrigated crop good shape. Cutting barley desert. Cotton mostly planted. Thinning, cultivating early fields. Sugar beets being thinned, weeded. Digging old crop Sacramento Valley, new crop desert. Safflower needs rain Sacramento Valley. Good shape San Joaquin. Rice planting continues. Alfalfa hay second cutting San Joaquin, early Sacramento Valley. Harvest Chapman cherries continues. Sulfuring grapes continues all growing districts. Vineyards damaged heavily from freeze showing little regrowth. Heavy dropping almonds continues. Peach, plum, prune, nectarine not affected freeze, appear sizing normally. Navel orange nearing completion southern California, progressing normally San Joaquin Valley. Valencias continue increase. Harvesting lemons, grapefruit continues active. Most asparagus to processors, light volume to fresh market. Broccoli harvest good Salinas; moderate Santa Maria. Cauliflower harvest heavy Salinas; moderate Santa Maria; increasing southern California. Carrot harvest moderate Imperial Valley. Celery harvest light to moderate Orange, Oxnard. Lettuce harvest increasing sharply Salinas-Watsonville; unchanged Kern County, Santa Maria, Oxnard. Onion harvest Imperial Valley increasing. Potato digging continues Kern. Strawberry harvest at peak Orange, Oxnard; central coast increasing. Market tomato harvest increasing Imperial Valley. Livestock outlook improved slightly. Rangeland grasses prolonged with recent rains. Sales yards continue active. Herds being reduced to accommodate range grasses. Some chickens being force molted. Egg and milk supplies normal. Some honey being extracted. Some grain being fed to condition market lambs. Spring shearing progressing.

COLORADO: Cool with general storm clearing and warmer over weekend. Light to moderate precipitation east portion. Heavier some areas near mountains. Scattered mostly light amounts mountains and west. Germination and plant growth spring crops slow. Irrigation active corn, sugar beets, alfalfa. Conditions winter wheat declined due lack of moisture, 35% jointed. Light wind

damage to winter wheat past week. Moderate cutworm damage to wheat and alfalfa local areas. Condition winter barley fair to good, 16% jointed. Spring barley 87% seeded, 34% emerged. Oats 77% seeded, 37% emerged condition good. Seeding sugar beets 81% complete, 9% up to stand. Condition excellent. Late summer potatoes 37% seeded. Limited acreage emerged. Corn planting underway, 6% seeded. No significant growth of pasture past week, supplemental feeding continuing. Supply being depleted. Livestock condition good. Calving nearly complete.

FLORIDA: Temperatures averaged about 5° above normal with many highs in 90's under rather persistent sunny skies. Showers very widely scattered and total precipitation generally insignificant except for 23d when isolated totals throughout State exceeded 0.75 inch. Dry conditions slowed planting especially peanuts. Most corn planted. Some wheat damaged by rust. Dry soils limiting pasture growth. Most fair. Cattle good with light supplemental feeding. Citrus trees and new fruit need rain. Irrigation underway. Bloom completed. Petal drop most groves past. Bloom spraying. Harvest increasing on Valencias. Total shipments vegetables and melons continue to increase, sweet corn, potatoes, and watermelons offset seasonal decline of some cool season crops. Snap beans and cucumbers also increasing. Cabbage, celery, and tomato in full volume.

GEORGIA: Little or no rainfall until weekend with light to locally moderate amounts occurring throughout State. Saturday rainfall first in 3 weeks parts of south and soils had become extremely dry. Additional rain needed many areas where weekend totals less than 0.50 inch. Unusually warm until cooler near end of period. Averages ranged from 2° to 6° above normal. Soil moisture mostly adequate extreme north, short to very short central and south with some improvement over weekend. Land preparation and seeding made rapid progress first of week, but was delayed last of week in some areas by dry soil. Tobacco setting 98% completed, condition fair to good. Corn planting 65% completed, condition mostly good. Cotton 97% planted, 2% up to stand, peanuts 41% planted, somewhat behind normal. Soybean planting beginning several areas. Wheat condition continues to decline, but due to diseases, condition mostly poor, especially in south Georgia. Condition of oats not so favorable as last week. Small grains heading central and south. Pasture and cattle fair to good condition. Vegetable and melon crops fair to good, need rain. Movement of greens declining. Cabbage approaching peak.

HAWAII: Cool and damp with occasional light to moderate showers. Crop progress fair with light insect and disease damages. Sugarcane and pineapple harvest increasing seasonally. Slight increase in papaya production anticipated but local banana supplies light. Production of vegetables steady. Pasture and cattle condition remained fair to good. Most pastures received ample moisture.

IDAHO: Temperatures continued to average 4° to 10° below normal with minima midweek again dropping into teens higher valleys and into 20's elsewhere. Precipitation scattered and light except locally moderate to heavy Clearwater Basin and north-central prairies. Orofino recorded 1.03 inches for the largest total. Freezing weather damaged fruit and necessitated much replanting of sugar beet acreage. Cool weather slowed crop growth and range and pasture development. In irrigated areas, topsoil moisture depleted and irrigation now widely underway. Nearly all spring grains in south and west seeded--about 60% in east. Potatoes nearly 50% planted in southwest and south, very little elsewhere. In north wet soils continue to restrict fieldwork.

ILLINOIS: Second wet week. Rainfall exceeded 2.00 inches many areas causing much flooding by rivers and standing water in fields. Partly stormy extreme south Friday evening. One property damage from wind or tornado at Tamms. Few temperatures in 80's early in week. No freezing temperatures. Oat seeding about 60% completed, year ago nearly complete. Plowing slightly over 75% complete, year ago 92%. Wheat good to excellent. Pastures good condition supplying 55% livestock roughage requirement. Red clover and alfalfa hay in good condition. Some damage reported in southern part of State by alfalfa weevil. Main activities plowing, applying fertilizer, seeding oats, planting corn, some areas, as weather permits.

INDIANA: Wet week; precipitation averaged 3.00 to 6.00 inches extreme southwest. Streams flooding and much land under water. Severe weather Friday night, but property damage slight. In north, rainfall about 2.00 inches. Temperatures 1° above normal north, 6° above normal south. Temperatures ranged from 32° on 24th to 80's on 19th. No days suitable for fieldwork. Fields mostly mud. Topsoil moisture surplus. Subsoil moisture adequate to mostly surplus. Plowing nil last week. Progress 1/2 complete, same as average. Oats 35% seeded, 70% average. Wheat 7 inches high, 6 inches average. Oats 1 inch, same as 1971. Pastures fair to good, much improved last week.

IOWA: Moderate to heavy precipitation. Temperatures near normal south. 3° to 4° subnormal north. Fieldwork slowed due to cool wet week with less than 4 days suitable. Much needed rain fell in west. Oat seeding progressed to reach nearly 80% complete, about same as 5-year average. This was behind last years 92% for this date. Corn planting started southwestern part State farthest advanced. Plowing for 1972 crops 75% complete; last year over 80% with a 5-year average of 72%. Feed supplied by pastures mostly average to below average. Topsoil moisture 20% short 59% adequate and 21% surplus. Most reports of surplus moisture from eastern counties.

KANSAS: First widespread significant rains of spring eastern Kansas April 19, 20. Totals 0.25 to 0.75 inch central to generally over 1.25 inches eastern border. Few spots had over 3.00 inches. Dry weather continued west. Temperatures averaged above normal southeast, near seasonal elsewhere. Considerable day-to-day temperature variations. Freezing weather parts west early 24th with 29° at Goodland. Rains last week boosted crop prospects east and some northern areas. However, wheat was still under stress from lack of moisture in west and many central counties. A few early wheat and barley fields began to head. Oats and spring barley seeding near completion with early seedings showing good growth east. Corn acreage 17% planted by April 22 compared with 22% year ago and 12% average. Seedbed preparation for row crops active. Sugar beet planting nearing completion. Alfalfa growing

but bothered by weevil and aphids particularly in southeast. Pasture growth limited in central and west due to lack of moisture. Cool season grasses providing moderate grazing east. Many native pastures beginning to green over State. Spring calving nearly completed. Some young calf losses from blackleg.

KENTUCKY: Rain 1 or more sections most days, weekly totals 0.75 inch to over 4.00 inches. Temperatures above normal most days, averaging about 5° above normal. On night of 21st, 4 persons injured in Grayson County with wind damage in at least 4 counties. Also flash flooding hit portions of several counties in Bluegrass and northeast; one person was drown, a number of people were evacuated from their homes, and one Bluegrass City, Paris, was isolated for a few hours due to high water over all highways. Extremely wet weather continues, limiting fieldwork to 2 days on well-drained soils. All areas excessive soil moisture. Considerable soil erosion and flooding of lowlands. Plowing slow, slightly over 50% completed. Tobacco plants fair to good condition; washing and packing caused some losses. Dry weather and sunshine needed for all growing plants. Barley heading southwest, average height 15 inches. Wheat 12 inches. Alfalfa weevils in 4/5 of the fields, spraying as weather permits. Pasture good to excellent and growing rapidly.

LOUISIANA: Mild dry weather first and last of week. Warm and humid at midweek. Cool front Friday and Saturday brought scattered thundershowers statewide. Weekly temperatures averaged normal to 4° above. Weekly precipitation ranged from traces to near 0.50 inch most areas and up to more than 1.00 inch portions of northeast and southeast. Extremes: 90° at Monroe on Thursday; 43° at Ashland on Tuesday. Greatest 1-day rain total reported 1.23 inches measured at Monroe Saturday morning. Fieldwork continued at rapid rate. Application of fertilizers and herbicides very active. Planting cotton, corn, and rice active, but some growers waiting for more moisture. Soil moisture short to adequate. A good rain generally needed. Percent planted to date compared with a year ago; cotton 30 and 10, corn 80 and 60; rice 65 and 70. Planting soybeans, sorghum, and sweetpotatoes just getting underway. Cultivation, chemical weed control, and application of fertilizer in sugarcane continued active. Wheat and oats fair to good. Some rust damage. Pastures need rain. Grazing about average. Livestock in good condition. Herd vaccination begun.

MARYLAND AND DELAWARE: Cool on 21st. Otherwise normal to above normal, averaged 2° to 5° above normal. Extremes: upper 70's to mid-80's, 30's to low 40's except upper 20's to mid-30's in west. Precipitation heavy, mostly 2.00 to 4.00 inches. South heavy for 2d straight week. Fieldwork lagging due to wet fields. Soil moisture excessive, especially north. Corn planting started southern shore. Wheat fields mostly good, barley only fair to good. Vegetable crop seeding piecemeal basis. Potato planting 3/4 done central Delaware. Peaches past full bloom stage, scattered winter damage reported. Strawberry and apples expected full bloom this week.

MICHIGAN: Mild early, showers turning colder midweek with intermittent rain south, heavy snow north over weekend. Temperatures averaged 1° to 5° below normal Upper Peninsula, 2° above to 3° below normal Lower Peninsula, coldest in interior sections. Precipitation totals: 0.50 to 1.50 inches Upper Peninsula, 0.30 to 1.75 inches Lower Peninsula with smallest totals central sections. Cold weather and wet fields delayed start to spring planting on most farms. Many fields in Upper Peninsula still snow-covered. Soil moisture varied from adequate to surplus. State averaged only 1.4 days suitable for fieldwork. All but lighter soils too wet to work. Only 33% of acreage intended for spring planting plowed. Most of this fall plowed. Oats 4% planted, potatoes and sugar beet planting started. Considerable winter injury winter wheat central counties. Cribbed corn condition good. Fruit bud development retarded by cold. Apples green tip southern areas. Cabbage and sweet corn underway in southeast.

MINNESOTA: Cold wet week with temperatures averaging 3° below normal. Extremes: 80°, 19°. Precipitation: Southern 2/3 received average of about 1.25 inches water content while the northern 1/3 averaged about 0.30 inch. Greatest weekly amount, 2.60 inches at Tracy. Snow cover reduced to ice except in forested areas more than 24 inches exist. Snowfall of 1 to 3 inches in the southern half and 6 to 10 inches in northeast fell on 21st and 22d. Lakes still ice covered from Lake Mille Lacs north. Wet soils continue to hamper fieldwork. Fieldwork mainly limited to southwest and south-central districts. Percent of small grains seeded: Oats, 8, normal 26; spring wheat 1, normal 20; barley 1, normal 13; flax 1, normal 7. Percent of land prepared: Corn 5, normal 10; soybeans 2, normal 4. Winter wheat, rye, hay fields, pastures dormant north, fair south.

MISSISSIPPI: Severe weather night of 15th: A tornado at Cleveland with no deaths, 60 injured, and $100,000 damages; only rainfall at most stations occurred with amounts up to 2.21 inches. Temperatures averaged 2° to 6° above normal. Extremes: 92° and 41°. On Friday afternoon and evening, severe thunderstorms with some wind damage and tornadoes in northern and central Mississippi; 6 persons injured and damages estimated over $400,000, mostly in Covington County. At Brookhaven, 2.55 inches of rain measured on 22d. Remainder of weekend cooler and mostly fair. Soil moisture short to adequate southeast, other areas mostly adequate. Average 5 1/2 days suitable for fieldwork. Land preparation advancing rapidly. About 36% corn and 23% cotton planted. Wheat 64%, oats 76% headed. Wheat, oats, Irish potatoes, truck crops, pastures, and livestock mostly good condition. Peaches mostly fair.

MISSOURI: A very soggy week. Rainfall amounts averaged 2.00 to 4.00 inches in Ozarks and 1.00 to 2.00 inches elsewhere, from thunderstorms during last half of week. Some lowland flooding in eastern Ozarks. Temperatures averaged 2° to 4° above normal. It was warm early in week and again over weekend. Average 2 days suitable for fieldwork. Plowing 78% completed. Corn 12% planted, cotton and soybeans 1% planted. Wheat and pastures mostly good condition. Soil moisture adequate to surplus.

MONTANA: Cool temperatures through week with warming Sunday. Daytime maximums mostly 40's and 50's with freezing temperatures at night. Above normal precipitation in southeast from storms Wednesday and Saturday with amounts

locally more than 0.50 inch; little precipitation elsewhere. Topsoil moisture short to adequate north-central, central and southwest, adequate remainder. Spring crops being planted at normal pace. Spring wheat 25% seeded, barley 30% oats 20% and sugar beets 40% planted. Range and hay grasses grew slower than usual. Stockwater supply adequate, newborn calves and lambs good condition. Eighty percent of range livestock receiving supplemental feed. Calving 75% complete, Lambing 65% and shearing 70% finished.

NEBRASKA: Cool and cloudy. Generous moisture southeast 1/3 of State, little elsewhere. Surface moisture condition improved in many eastern and southern areas, but deficiencies still exist in scattered areas elsewhere. Wheat making good growth, soil borne mosaic has been identified in 10 eastern counties and wheat streak mosiac in 12 other counties. A few fields have become weedy and required spraying. Farmers continued with seedbed preparation where soil conditions were favorable. About 1% of corn acreage planted. Livestock conditions are good with some cattle being moved to pasture.

NEVADA: Cool week with temperatures averaging 4° to 7° below normal. Only measurable precipitation at Caliente, 0.03 inch; Las Vegas 0.05 inch; Ely 0.55 inch. Snow, 2 inches at Ely. Locally windy. Planting spring crops continues in northern areas. Cotton planting underway Pahrump Valley. Cutting first crop of alfalfa hay continues extreme southern valleys. Green onion harvest nearing completion Napa Valley. Livestock remain generally good condition as ranges continue to turn green.

NEW ENGLAND: Warm first half and cold latter half week. Means about normal except from 3° to 6° below normal northeastern Vermont. Unseasonably hot interior sections of south on 19th with some maxima in upper 80's. Frequent precipitation but totals light in north, mostly 0.25 to 0.75 inch. Much heavier in south where mostly 1.00 to 2.50 inches with major yields on 20th and 23d. Much fell as snow on 20th but most melted or accumulated as slush. Accumulations of 3.00 to 6.00 inches central Vermont. Snowcover north rapidly diminishing except at higher elevations. Unsettled weather prevented any advance of season. Maple season over south with normal crop. Maple producers in north anticipating one more good run.

NEW JERSEY: Temperatures averaged near or a few degrees above normal. Readings reached mid-80's on 19th and few locations in northern counties reported freezing temperatures on 21st. Rainfall averaged about 1.40 inches over northern 1/3 of State and 0.80 inch elsewhere. Totals ranged from 0.65 inch at Trenton to 2.00 inches at Charlotteburg in Passaic County. Thundershowers numerous evening of 23d. April showers continue to disrupt fieldwork. Soil moisture ample to surplus. Work continues behind schedule most areas. Asparagus harvest late. Warm weather needed. Peaches in bloom South Jersey. Blueberry and strawberry prospects good. Hay,grain, and pasture crops look good. Warm temperatures would improve growth rate.

NEW MEXICO: Continued dry with only small amounts of precipitation in extreme northeast midweek. Cooler than previous week with below normal temperatures in west but above normal temperatures continuing in eastern plains. Cooling to lowest morning temperatures Friday and Saturday then warming. Lowest temperatures of week were freezing most areas except eastern plains. Topsoil, subsoil moisture short to very short. Subsoil moisture adequate scattered areas. Grazing wheat active. Yields will be poor. Losses some areas. Alfalfa,barley fair to good. Alfalfa harvest some areas, cotton planting underway. Ranges poor to fair. Livestock fair to good.

NEW YORK: Cold except for couple of warm days southern half. Maximums low 80's southeast and in 70's western and south-central on 18th and 19th as cold air remained over northern 1/3 and kept maximums in 50's. Coldest minimums low to mid-20's south-central interior and 25° to 30° elsewhere Upstate on 21st with near 35° on Long Island. Precipitation 19th and 20th totaled 0.80 to 1.20 inches southeast Upstate ranging down to 0.10 to 0.30 inch northern valleys. Light to moderate rain widespread on weekend. Wet soils continue to delay widespread fieldwork. Planting has begun on higher well-drained gravel soils. Oat planting has begun in southern tier counties. Wheat and pastures beginning to green. Winterkill and heaving have occurred in isolated fields of alfalfa. Manure hauling, fence repair, and preparation for fieldwork continue major farm activities between chores. Cold wet weather also is delaying field preparation and planting of vegetable crops. A few acres of potatoes planted in western New York while on Long Island growers slowed by wet conditions, are about 35% planted. Very little activity in onion fields of central and west due to excessive field moisture. In Orange County, onion planting about 10 to 14 days behind average. First planting of lettuce seed plantings now emerging. Fruit tree buds beginning to show green in Hudson Valley. Western New York tree fruit about 10 days behind normal development. Growers continue to prune and fertilize orchards with some spray being applied for pear psylla.

NORTH CAROLINA: Mostly fair except rain 21st and 22d, total amounts 0.20 to 2.00 inches, averaging 0.75 inch. Hot at first with highs to lower 90's dropping to 60's and 70's in rain.. Lowest in 40's except some frost and freezing temperatures mountains morning of 18th. Scattered wind damage 20th. Soil moisture decreased but adequate statewide. Small grains and pastures mostly good, growing rapidly. Tobacco beds mostly good. Flue cured setting 17% complete. Field condition fair to good. Condition of peaches poor to fair, freeze damage earlier. Irish potatoes and truck crops fair to good condition. Corn 45%, cotton 24% planted. Soybean planting just beginning. Farming activities aided by good weather.

NORTH DAKOTA: Temperatures averaged 2° to 4° below normal except near normal in central, east-central, and northeast. Precipitation none to 0.70 inch. Snow first of week along northern border. Occasional light showers becoming more numerous on weekend. Cool damp weather continues delay start of fieldwork. Moisture supplies mostly plentiful to surplus. Progress of season almost 2 weeks later than normal. Winter wheat and rye greening up and should make good growth with warmer weather. Pastures mostly dormant. Calf and lamb losses somewhat higher than usual.

OHIO: Another wet week. Some flooding in Sandusky, Scioto, and Hocking River Basin. Rain showers and thunderstorms on 19th through the 23d. For 24-hour period ending at 10 p.m. on 20th, Mansfield reported 2.21 inches of rain. Only the 17th and 18th were clear, pleasant days. In general, temperatures were 5° to 10° above normal 17th to 19th. Rest of week, temperatures nearer normal. On 18th temperatures in lower 80's recorded in south. Rain watching was major activity of many Ohio farmers as only 1 day during week favorable for fieldwork. Soil moisture supply is rated surplus at 92%. Plowing for corn and soybeans made little progress during week and remains at 65% complete against 90% for same date last year. Corn planting remains under 5% complete. Oat seeding is 30% finished, average progress is 65%. Sugar beets planting is 1/4 done. Last year 95% completed. Tobacco beds are 3/4 seeded compared to 90% year ago. Potato planting less than 10% completed and well behind last year's progress of 45%. Livestock obtaining about 15% of their forage requirements from pastures and meadows. Pasture, alfalfa, and clover-timothy fields in fair to good conditions while winter wheat condition is good.

OKLAHOMA: Rainfall 0.20 inch western 1/3 State and from 1.00 to 2.50 inches elsewhere. Temperatures averaged 1° to 5° above normal. Small grain headed out rapidly under last week's above normal temperatures and the plants surge to beat the dry soils. Wheat 48% headed, which is a week to ten days ahead of average and about the same as early development of 1967. Midweek rains and ensuing cooler temperatures improved wheat to 62% fair and 15% good compared to 52% and 4% in those categories a week earlier. Other wheat was rated poor. Rainfall amounts in west too light to provide other than very temporary relief. Development of oats and barley also ahead of average with conditions rated mostly fair. Little or no planting of row crops as growers waited for better moisture conditions. First cutting of alfalfa underway, but yields are very light. Rains improved range conditions, and many western cattle are grazing wheat. Cattle movement being stepped up.

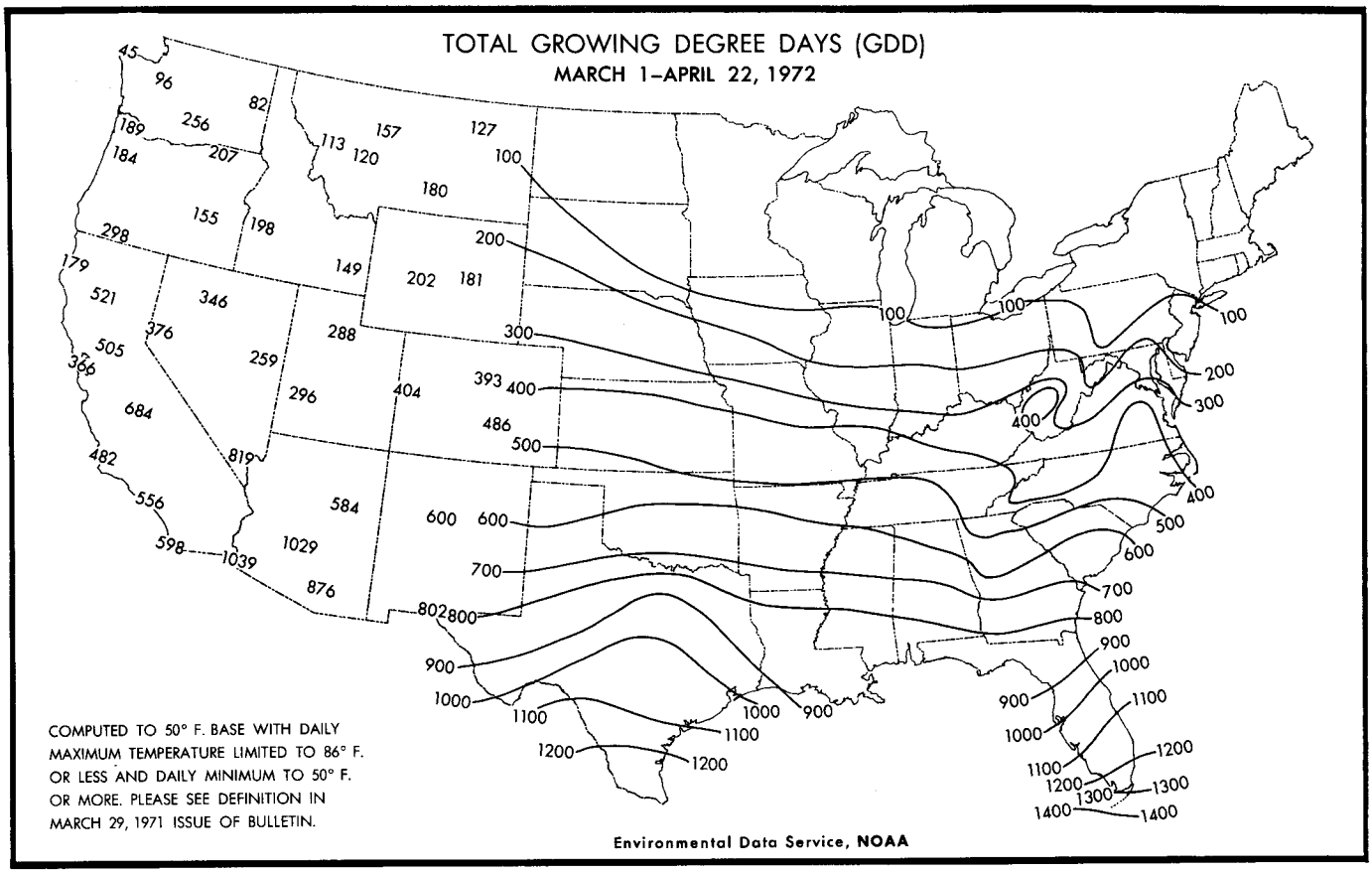
OREGON: Continued cool with 1 to 5 days of rain and freezing lows. Temperatures averaged 3° to 5° below normal west, 6° to 9° below normal eastern 2/3 of State. Minima 12° to 25° east, 25° to 35° western 1/3. Fruit areas 2 to 4 nights of 20° to 32° eastern valleys, 27° to 32° western valleys. Maxima 53° to 71°. Only traces of precipitation southeast, 0.10 to 0.60 inch elsewhere except 1.00 to 1.70 inches north coast. Below-normal temperatures have slowed planting and development of most crops. Frost early part of week caused considerable damage to fruit. Intensive orchard heating underway most areas. Losses in pear and cherry orchards not yet known. Bee activity and pollinization poor. Asparagus harvest progressing slowly. Potatoes, onions, and sugar beets are up, some frozen back. Reseeding of some sugar beets expected. Vegetable planting behind schedule due to weather. Development of hay and grain crops slow.

PENNSYLVANIA: Fair and warm beginning of week, cooler and wet latter half. Maxima in 70's and 80's Tuesday and Wednesday, 50's and 60's Thursday behind cold front. Showers with front, general rain Friday night and Saturday, more showers and thunderstorms Sunday evening. Widespread frost Friday morning. Weekly temperatures near normal north and west, 2° to 4° above normal central and east. Weekly rainfall under 0.50 inch north-central, 1.00 to 1.25 inches much of south. Surplus moisture conditions hindered field activities, 2/3 reported surplus moisture. Winter grain and pastures continue slow growth. Pastures too soft for grazing. Oats seeding behind last year, 20% complete. Pennsylvania seed-leaf tobacco seed beds winding up, early beds good stand. Potato planting slow. Peaches blooming southern counties, buds swelling elsewhere. Asparagus cutting not begun.

PUERTO RICO: A dry cool week. Rainfall averaged 0.19 inch or 0.87 inch below normal. Highest weekly total rainfall 2.00 inches in southwest. No rain entire week northwest, central, and southern coastal sections with only light showers east and south. Crop moisture too low parts of northwest and south coast; otherwise near normal. Temperatures averaged 77° on coast and 72° interior divisions with mean departure of 1.9° below normal in slight cooling trend. Highest maximum, 93°; lowest minimum, 52°. Sugar cane harvesting operations progressed well. Spring planting operations retarded by dry weather northwest. Coffee plantations active cultivating with good flowering and good crop development all zones except northwest where retarded by lack of rain. Tobacco harvesting and drying operations progressed well in dry weather. Soil preparation underway in central zones for 2d planting. Pastures good to excellent island wide except fair in northwest due lack of rain. Minor crops developing well all zones except northwest with good harvest of cabbage, fruit celery, and mexican fruit.

SOUTH CAROLINA: Temperatures averaged 7° to 8° above normal all sections during a very warm dry week. Sunshine abundant and rainfall almost completely lacking. Rain did come as week ended and helped to alleviate dry condition which had developed. Farmers increased land preparation and planting as result of favorable weather condition. Tobacco transplanting 81% complete compared with 51% last year. Corn 69% , cotton 42% planted compared with 66% and 41%. Corn condition good, cotton fair to good. Small grains, hay crops, pastures good condition. Early April freeze caused considerable damage to mid-season peach variety in Piedmont area. Vegetable crops fair to good condition. Watermelon planting 74% complete compared with 77% last year. Correction in last week's percent planted, from 84% to 65%. Peanut planting 22% complete compared with 19% last year. Sweet potato planting 9% complete.

SOUTH DAKOTA: Temperatures averaged up to 7° below normal. Extremes: 20° at Philip on 24th, 82° at Vermillion and Yankton on 17th. Precipitation beginning and near end of week as rain and snow with amounts ranging from less than 0.10 inch to about 1.50 inches. The heavier amounts fell in east. The snow melted soon after it fell. Seeding of small grains made rapid advance first of week but was slowed by cool damp weather end of week. Except few isolated areas in northeast, field work was universal over State. Small grain seeding varies from little seeded in northeast to nearly complete in southeast. Seeding of all small grain behind normal and considerably behind last year. Preparation for planting row crops beginning southeast. Most areas report fall-seeded grain condition fair to good with some excellent. All areas showing signs of growth with advancement greatest in southwest and south-central. Pastures greening and beginning growth. Some areas report cattle on pastures, but still



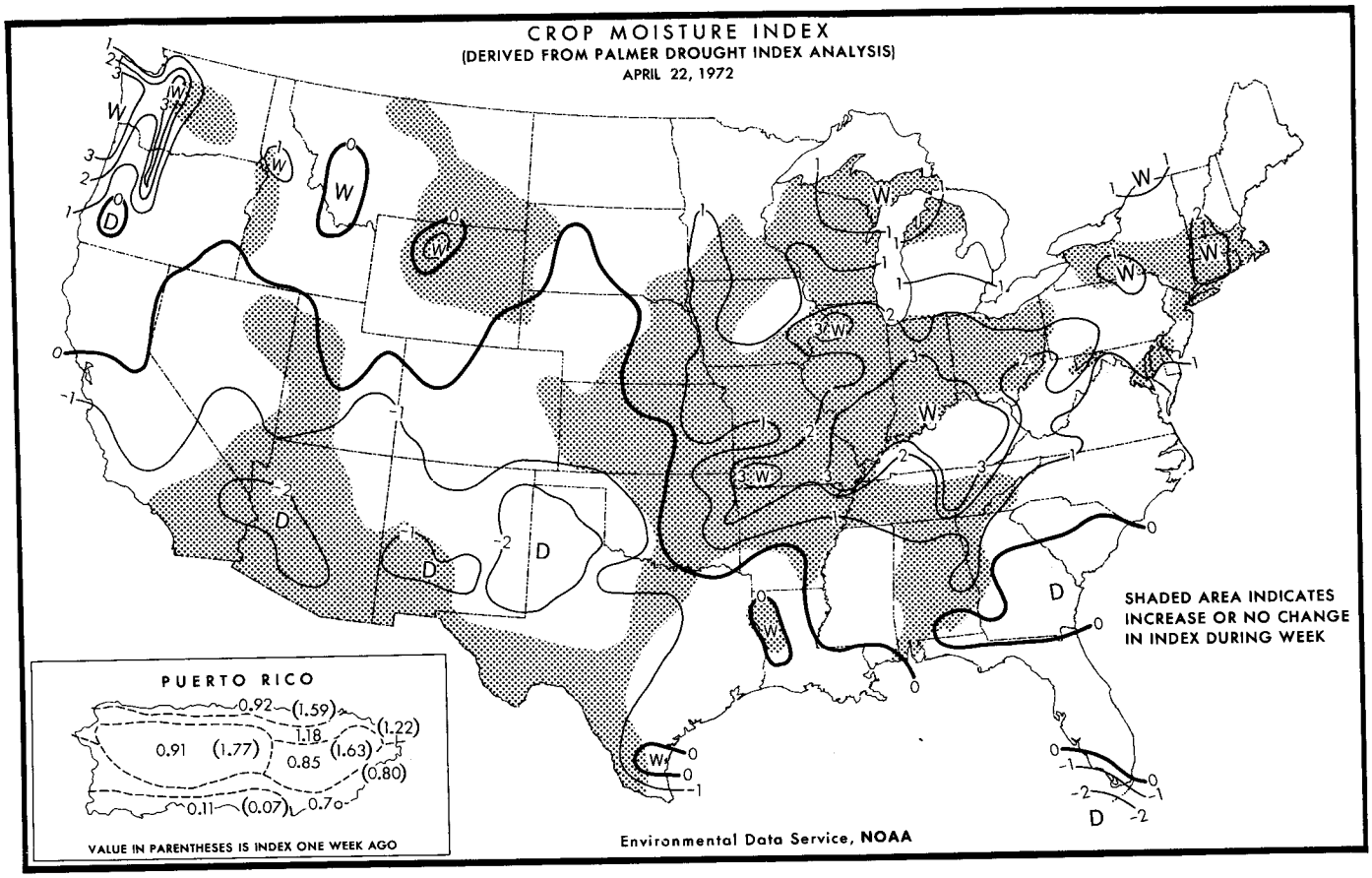
receiving supplemental feed. Calving generally over 50% complete with several areas in western part of State nearing completion. Wet conditions have caused increase in calf scours. Range lambing getting started. Stockwater supplies adequate to ample.

TENNESSEE: Temperatures averaged well above normal; near recordbreaking levels at first of week, lower latter half. Fair weather first 4 days, gave way to showers and thunderstorms last 3 days. Some severe thunderstorms accompanied by heavy rain exceeding 2.00 inches, and 2 or 3 tornadoes. Wind and tornado damage not yet determined. With 3.4 days suitable for fieldwork, farmers able to show progress in spring fieldwork. Corn and cotton planting started, but behind last year's pace. Pastures and hay showing abundant growth and providing plenty of feed for livestock. Livestock are in good condition.

TEXAS: Scattered moderate to locally heavy showers dotted central and eastern portions of State. Heavier showers in Del Rio southern Edwards Plateau Tuesday through Thursday, in north-central and East Texas Wednesday and Thursday and southeast Texas Friday. Almost all sections need rain, but shortage is particularly acute northwest. Rains on Low Plains, Edwards Plateau, Cross Timbers, and Blacklands furnish planting moisture for peanuts, cotton, corn, sorghum. Preplant irrigation about complete High Plains. High winds, hot weather making it difficult to hold planting moisture. Cotton, corn, sorghum making good growth Lower Rio Grande Valley, only fair progress elsewhere. Percent planted major crops; cotton 26 , 16 last year; corn 73, 65 last year; sorghum 44, 34 last year; peanuts, 12, 7 last year; rice 94, 90 last year. In Lower Rio Grande Valley onion harvest past peak. Sweet corn, cucumbers, squash, tomatoes, green peppers, potatoes being harvested. Cantaloupe and melons showing good growth. In Coastal Bend, onion harvest continues. Some squash and cucumbers available. At Laredo the last of carrot crop being harvested, onions being harvested. In Winter Garden -San Antonio irrigated melons show good growth. Onions being harvested. On high plains carrots, onions, potatoes are planted and making good progress. Citrus trees in excellent condition with heavy fruit set for next year's crop.

UTAH: Fairly general light to moderate precipitation forepart of period. Locally quite heavy amounts over and near Wasatch Front in north and central Utah. Tooele 2.25 inches, largest accumulation reported. Only 4 out of 38 reporting stations failed to record measurable moisture. Escalante ended a 112 day rainless period with 0.02 inch on 19th. Temperatures dropped to well below normal during period averaging between 3° and 11° below normal. Soil temperatures, at 4-inch depth, dropped to low 40's in Cache Valley, mid-40's in Salt Lake and mid-60's in St. George. Cold wet weather limited fieldwork to 3 days or less. Some losses of newborn lambs. Winter wheat good condition most areas. Planting of spring crops 75% completed for spring wheat, 60% for oats, 80% for barley and 70% for sugar beets--virtually unchanged from a week earlier. Frozen sugar beet acreages will need replanting. Alfalfa hay good condition and recovered well from heavy freezes during last 30 days. Fruit prospects continue poor. Last week's low temperatures may add to already staggering losses. Calving, lambing,

(Continued on page 12)



INDEX DECREASED DURING WEEK
(Unshaded Areas)

INDEX

ABOVE	3.0	SOME DRYING, BUT STILL EXCESSIVELY WET.
2.0 to	3.0	MORE DRY WEATHER NEEDED, WORK DELAYED.
1.0 to	2.0	FAVORABLE, EXCEPT STILL TOO WET IN SPOTS.
0 to	1.0	FAVORABLE FOR NORMAL GROWTH AND FIELDWORK.
0 to	-1.0	TOPSOIL MOISTURE SHORT, GERMINATION SLOW.
-1.0 to	-2.0	ABNORMALLY DRY, PROSPECTS DETERIORATING.
-2.0 to	-3.0	TOO DRY, YIELD PROSPECTS REDUCED.
-3.0 to	-4.0	POTENTIAL YIELDS SEVERELY CUT BY DROUGHT.
BELOW	-4.0	EXCEPTIONALLY DRY, MOST CROPS ABOUT RUINED

INDEX INCREASED OR DID NOT CHANGE DURING WEEK
(Shaded areas)

INDEX

ABOVE	3.0	EXCESSIVELY WET, SOME FIELDS FLOODED.
2.0 to	3.0	TOO WET, SOME STANDING WATER.
1.0 to	2.0	PROSPECTS ABOVE NORMAL, SOME FIELDS TOO WET.
0 to	1.0	MOISTURE ADEQUATE FOR PRESENT NORMAL NEEDS.
0 to	-1.0	PROSPECTS IMPROVED, BUT RAIN STILL NEEDED.
-1.0 to	-2.0	SOME IMPROVEMENT, BUT STILL TOO DRY.
-2.0 to	-3.0	DROUGHT EASED, BUT STILL SERIOUS.
-3.0 to	-4.0	DROUGHT CONTINUES, RAIN URGENTLY NEEDED.
BELOW	-4.0	NOT ENOUGH RAIN, STILL EXCEPTIONALLY DRY.

The map above is based on weekly areal mean values of temperature and precipitation for 350 climatological divisions. Weather during previous weeks has been taken into account through successive weekly computations of both topsoil and subsoil moisture. The map shows recent crop moisture conditions; i.e., areas in which crops have been hindered by abnormal dryness or wetness, and areas where moisture conditions have been favorable.

This is a generalized picture; local variations caused by the occurrence or absence of heavy rain or by soil differences are not shown. Shallow rooted crops and crops in areas with poor soils are likely, on occasion, to suffer more than indicated. Conditions may be better than shown in areas having exceptionally good soils.

The legend applies primarily to growing rather than matured vegetation. Interpretation of the effects on crops and native vegetation must, therefore, take account of the stage of growth as well as the status and trend of moisture conditions. The trend is indicated by the shading which denotes areas where the index did not decrease below its value of a week previous; i.e., conditions did not become noticeably drier during the week. A trend toward drier occurred in the unshaded regions. The lines show the crop moisture situation according to the computed index values which may be interpreted using the legends above. One legend applies to the unshaded areas, the other to the shaded. Centers of relative maximum and minimum index values are marked for easier recognition - W for wet and D for dry. In irrigated regions the index values merely reflect departures from ordinary irrigation requirements.

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(UTAH continued from page 10)

and shearing about 75, 20, and 55% completed, same as a year ago this date. Movement of cattle and sheep to spring range land in progress--15% completed for cattle and 20% for sheep.

VIRGINIA: Temperatures above to much above normal changing to below and much below Friday. Heavy showers and thundershowers Friday and Saturday. Over half of corn planted in lower coastal plains 14% for State. Soybeans, peanuts and cotton planting started. Barley in tidewater heading. Planted spring oats in upper Piedmont and west of mountains. Dusted and sprayed tobacco beds. Some mold damage in burley beds in southwest. Cabbage set in Carroll County. Tomatoes set. Cucumbers, snap beans, and Irish potatoes planted on Eastern Shore. Apples in full bloom as far north as Madison County.

WASHINGTON: Western Washington: Weather for the period was cold and wet. Fieldwork at a minimum. Spring growth very slow with only cabbage showing good progress. Tree farmers beginning to fertilize. Logging operations beginning some lower elevations where snow melted. Pasture growth continued slow and very little grazing available. Supplemental cattle feed still required in quantity. Eastern Washington: Cold, windy and generally dry weather prevalent. Seeding and soil preparation activities continued. Some freeze damage evident in asparagus and sugar beets and cold weather kept asparagus harvest at minimum. Frost damage to fruits, especially, cherries, apparent in the Yakima and Wenatchee areas. Seeding delays due to weather were of some concern. Wheat and grass growth continues to be slow. Orchard heating conintues to be required.

WEST VIRGINIA: Many stations will have record April rainfall totals if rainy trend continues. Considerable sunshine until midweek with frost April 18. Rainy period resumed afternoon April 19 through April 23. Soil moisture surplus in most areas. Days available for field work averaged 2.2. Condition of small grains and pastures fair to good. Rain and warm weather bringing rapid growth. Fair to good fruit prospects. Some damage to peach crop.

WISCONSIN: Fine spring weather early in week; cloudy, cold, wet latter part. Temperature extremes: 79° and 22°. Thundershowers Tuesday night from southwestern to northeastern Wisconsin. Rain south and snow north Friday. Soils quite wet and cold. Some frost still in ground in central and east. Much snow remains in woods in north with thick ice on lakes. No fieldwork possible. Season very late getting started. Oats only planted on a few sandy fields in west. Much manure to haul in north. Feed supplies generally ample. Bedding supplies often short supply. Maple syrup season rather poor. Soil moisture adequate to surplus.

WYOMING: Rain and snow statewide, some moderate snow central. Midwest and Dull Center reported 1.10 inches moisture. Temperatures averaged near 7° below normal. Maxima mostly 50's to low 60's west of Divide, 60's to low 70's east. Minima mostly 7° to 22° west of Divide, 2° to 30° east. Temperature extremes 74° at Basin and Worland and 2° at Laramie. Main agriculture is planting, calving, and lambing. Nearly 60% sugar beets planted, 55% oats planted with less than 5% emerged, 60% spring wheat planted with 5% emerged, 55% barley planted with 10% emerged. Surface soil moisture short to adequate, but prospects for alfalfa good. Pasture conditions generally good. Over 60% of calves, 80% of farm lambs and 30% of range lambs are on the ground. About 55% range sheep are shorn.

NATIONAL FLOOD SUMMARY - FRIDAY, APRIL 21, 1972

Small stream overflow was reported yesterday in eastern Kansas and northwest Missouri. In the Hudson River Basin in New York moderate to heavy rain and snowmelt caused small stream overflow and produced near flood levels on the Mohawk River.

Several principal streams in the midwest continue in flood. The most significant is in the Ohio River Basin on the main stem Ohio River and in the Wabash-White Basin in Indiana. The flooding in this region is being prolonged by heavy rainfall late this week.

The Lower Connecticut River is flooding some lowlands.

Heavy rain fell over most of an area from central Oklahoma through northern Arkansas and southern Missouri, the western portions of Missouri and Iowa, and eastern portions of Kansas. Some moderate to heavy amounts were recorded in southeast New York and southern New England.

Hydrologic Services Division
National Weather Service