

WEEKLY WEATHER AND CROP BULLETIN

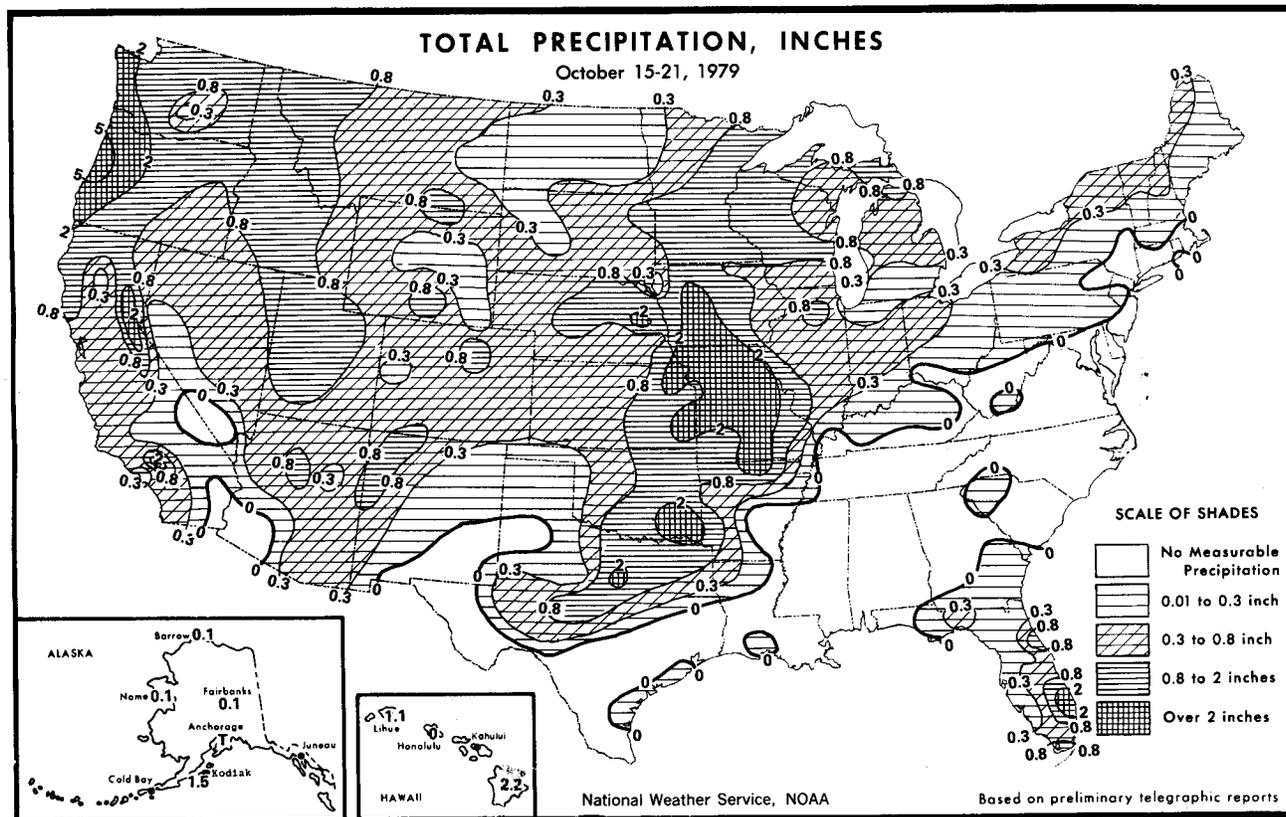
U.S. DEPARTMENT OF COMMERCE
National Weather Service, NOAA

U.S. DEPARTMENT OF AGRICULTURE
Economics, Statistics, and Cooperatives Service

Volume 66, No. 43

Washington, D.C.

Oct. 23, 1979



National Weather Summary

October 15 - 21

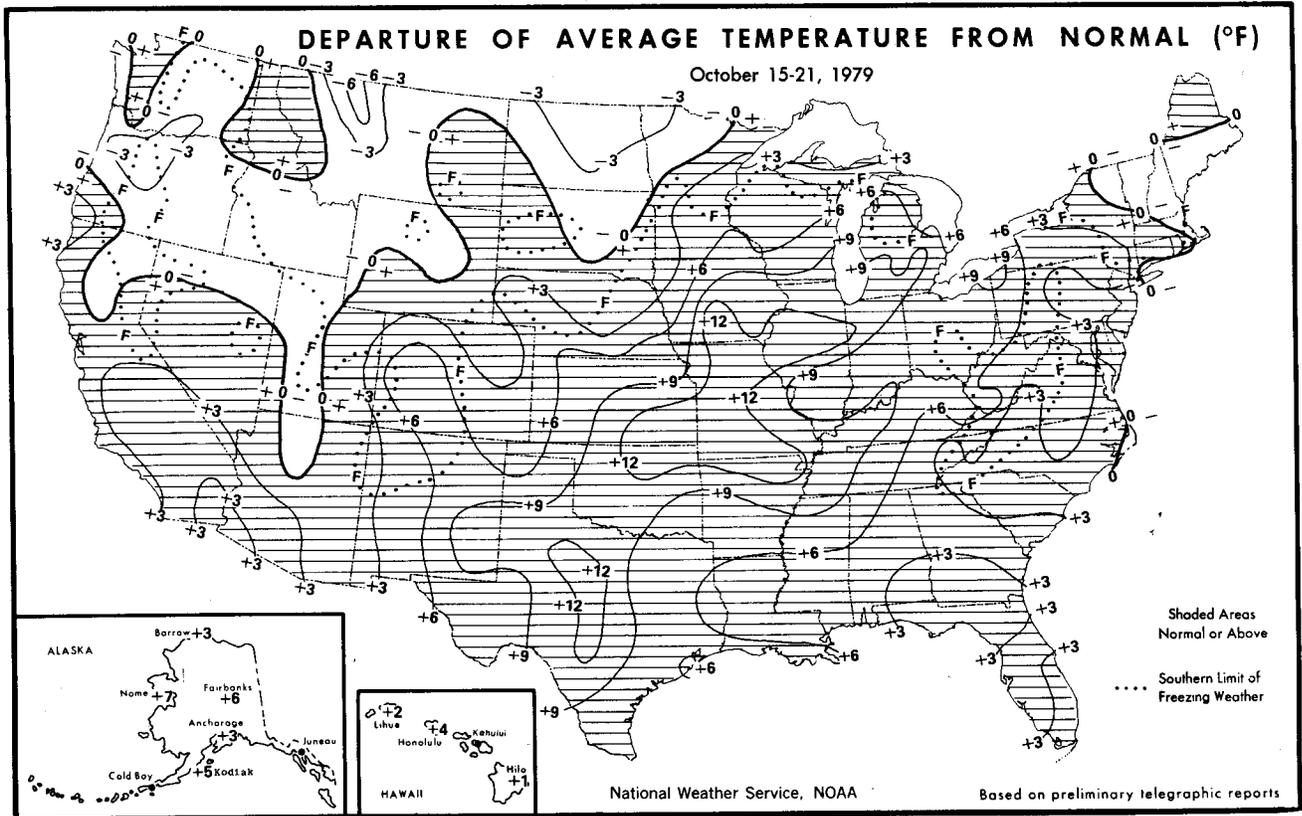
HIGHLIGHTS: Early in the week light rain fell from New England through the Midwest and heavier amounts accumulated in Missouri and eastern Kansas. Late in the week a powerful autumn storm spread rain or snow throughout the West and moved to central United States by the end of the week. Continuing rain accumulated over two inches in Iowa, Missouri and parts of eastern Kansas, Oklahoma, and Texas. Average temperatures for the week were warmer than normal over most of the Nation. From Texas to Michigan averages were 10 to 12 degrees above normal. Colder air moving in brought averages down to below normal in the

Pacific Northwest.

The week began with record cold air invading the East. Monday morning saw record cold temperatures being recorded from Georgia to New Hampshire. Some of the cold temperatures reported were Augusta, Ga., 36°, and Concord, New Hampshire, with a bone-chilling 22°.

Showers and thunderstorms were scattered from north central Texas to Missouri. The heaviest storms were in the Dallas/Fort Worth area where some two and three inch rains fell and hail was reported. Elsewhere, rain changed to snow in New England, tropical showers wet southern Florida, and light rain fell in the northern Rockies and eastern Montana.

Rain moved into the Pacific Northwest on Tuesday. The light rain showers that were in the northern Rockies moved into eastern Colorado and Wyoming and into South Dakota and Nebraska. Many points in the Rockies, while getting their first rain in many days, remained abnormally dry. Some rain, in the form of showers, fell in the Ohio Valley



and the tropical rain continued in southern Florida.

Low temperatures Tuesday morning were not as chilly in the Northeast as they had been the last several days. No records were broken or even threatened. By midafternoon, temperatures around the Nation ranged from 39° at points in Maine to 95° in Laredo, southern Texas.

On Wednesday morning, a slow moving cold front stretched from the Great Lakes to the southern Rockies and a new cold front was moving onshore in northwestern United States. Showers and thunderstorms associated with the front through central United States brought some moisture to the winter wheat areas of central and eastern Kansas where it was needed to germinate newly sown wheat. Later in the day, heavier showers with thunderstorms developed through Missouri and Arkansas. As cold Canadian air moved into the northern Great Plains temperatures sank to the 20's and low 30's. Cold weather continued in New England.

By Thursday, the slow moving front, accompanied by showers and afternoon thunderstorms, had moved to New England, southwestward through Pennsylvania and Ohio, Missouri and to central Texas. The front was nearly stationary in Missouri, Kansas, Oklahoma, and Texas. By day's end, severe thunderstorms were reported in Kansas where hail and high wind caused some damage. Elsewhere, showers were scattered along the East Coast from the Carolinas through eastern Florida. Rain extended from northern California and the Pacific Northwest into northern and central sections of the Plateau and the Rockies. Snow fell at higher elevations.

Temperatures remained cold over the upper Missouri Valley all day Thursday. After an early

morning low of 17°, Butte, Montana, warmed to only 30° by noon.

The slow moving cold front had weakened and moved out of New England by Friday. Another band of weather moved into Central United States and still another was bringing rain and snow to the far West. Rain spread from central California and the Pacific Northwest across the intermountain area into the northern and central Rockies. More than a foot of snow accumulated in the higher mountains. Over three inches of rain fell at Blue Canyon, California. Showers and some thunderstorms were located from the eastern Dakotas into Minnesota and Ohio. Cold air moved into the northern Plains and very warm air into the southern Plains.

Rain or snow continued on Saturday from the West Coast through the Rocky Mountains. A major autumn storm developed in the West and brought showers and thunderstorms to the area, and snow, sometimes very heavy, to the higher mountains. Strong, gusty winds were blowing over the Rockies and the central and southern Plains. Elsewhere, a few showers developed in Minnesota and the southern Atlantic Coast. Temperatures were warm and skies generally sunny in the East.

The powerful autumn storm continued to churn the Rockies on Sunday and brought rain and snow into the Plains. By late Sunday, the cold front reached from Michigan to West Texas. Nearly forty degrees of temperature difference was reported across the front. Rain, mixed with snow, moved across the winter wheat from Texas to Nebraska. With cold weather moving in from the West, record high temperatures reached from Texas to New England.



National Agricultural Summary

October 15 - 21

HIGHLIGHTS: Above normal temperatures and relatively clear weather brought drying conditions to the eastern third of the Nation. Rain fell throughout the western two-thirds bringing relief to dry grasslands and the newly-seeded winter wheat. In spite of the rain, farmers had from 4 to 6 days available for fieldwork, allowing them to make good progress harvesting row crops and seeding winter wheat. Winter wheat planting advanced to 81%, continuing to lag last year's 91% and the 88% average. Corn harvest advanced to 31%, short of 1978's 53% and the 47% average. Soybean combining stood at 59%, surpassing the 56% for last year and average. Cotton picking stood at 26%, short of the 35% last year and the 30% average. Grain sorghum harvest reached 63%, falling between last year's 68% and the 60% average. Rice harvest, excluding California, reached 90%, slightly behind last year's 96% and the 91% average. Fall plowing was about on schedule; lagging in the eastern Corn Belt but slightly ahead in the western Corn Belt. Ranchers continued to move herds to winter grazing land. LP gas and gasoline supplies held steady from the previous week but increased demand for plowing, planting, and harvest tightened supplies of diesel fuel. LP gas rated 6% tight, 91% adequate, and 2% surplus. Diesel scored 20% tight, 79% adequate, and 1% surplus. Gasoline stood at 13% tight, 86% adequate, and 1% surplus.

SMALL GRAINS: Winter wheat seeding advanced to 81% complete, 10 points less than last year and 7 points below the average. Planting was complete in the northern Plains, but lagging in the southern Plains and the eastern Corn Belt. In Texas and Oklahoma, seeding fell 10 points less than last year in both States. In Kansas, seeding stood at 85%, equal to the average, but 10 points below last year. Growing conditions improved because of the recent rains; however, the dryland crop on the Texas Plains needed additional moisture. In the eastern Corn Belt, seeding in Illinois, at 80%, surpassed last year by 4 points; Indiana seeding at 65% fell short of last year by 5 points and Ohio seeding at 55%, lagged last year and average by 25 points. Stands in major production areas rated only fair and in some areas poor because of the recent dry weather which was only alleviated in some parts of the Plains by this week's showers.

CORN: Virtually all the corn was mature, but high moisture content in the grain slowed harvest progress. Nationally, harvest reached 31%, a 10-point increase for the week. Progress lagged far behind last year's 53% and 47% average. In the eastern Corn Belt, harvest reached 26%, well behind 1978's 43% and the 37% average. In the western Corn Belt, harvest advanced to 30%, almost half of the 58% last year and well behind the 52% average. In the Southeast, harvest reached 82%, falling between last year's 86% and the 76% average. An unusual snow in Virginia on October 10th lodged some stands.

SOYBEANS: Soybeans were in good condition with most of the north central States' crop mature and the south central States' crop ranging from 64

to 71% mature. Snow lodged some of the Virginia crop earlier in October and frost damaged some of the Kentucky soybeans. The late crop in Arkansas could benefit from additional rains. In the eastern north central States, harvest progress stood at 68%, very close to the 69% last year and the 74% average. In the western north central States, harvest advanced to 85%, surpassing the 68% last year and the 70% average. In the south central States, combining advanced to 32%, lagging last year's 37% and the 34% average. In the Southeast, harvest reached 10%, equaling the average but short of the 16% last year.

COTTON: Cotton acreage showing open bolls ranged from 66 to 100%, continuing to lag the usual development. Harvest was in progress in all major States reaching 26% complete, lagging last year's 35% and the 30% average. Growers were busy defoliating stands in preparation for harvest. California growers began shredding and disking harvested stands; gin yards began filling as the picking tempo increased. Cotton harvest lagged particularly far behind last year in the Delta.

OTHER CROPS: Grain sorghum harvest advanced to 63%, 5 points less than last year and 3 points above the average. Most of the crop was mature throughout the Great Plains. Harvest ranged from 29% in Colorado to 82% in Texas.

Rice harvest in the five States stood at 86%. Excluding California, harvest stood at 90%, short of last year's 96% and the 91% average. The first Gulf Coast harvest was complete; Texas growers began harvesting the second crop. The Delta harvest ranged from 85 to 87% in Mississippi and Arkansas, respectively. The California harvest reached 68%.

FRUITS & NUTS: Apple picking continued in northern production areas as growers finished harvesting Red Delicious and moved on to Winesaps and Romes. California growers finished boxing the raisin crop. Harvests of other grapes continued in California and New York. Pecans rated mostly fair with some poor reports from Mississippi and Alabama. Picking was just getting started across the South. Texas pecans began splitting; wind blew some nuts off the trees.

Florida citrus groves rated excellent. Harvest increased as more fruit met maturity standards for fresh shipments. Texas harvests of early oranges and grapefruit increased. Arizona growers picked lemons and grapefruit. California producers harvested grapefruit and lemons from the desert area; the Valencia harvest wound down. Navels were reported coloring and developing well.

VEGETABLES: Northern vegetable growers harvested crops including cabbage, carrots, and cauliflower. Florida vegetables developed well; crops generally rated fair to mostly good. Harvests were active for eggplant, cucumbers, okra, sweet corn, squash, snap beans, and tomatoes. California producers sent brussels sprouts to freezers and some to fresh market. Cauliflower was also diverted to freezers. The central coast area supplied a heavy volume of celery and broccoli. The lettuce harvest increased in California and Arizona.

PASTURES & LIVESTOCK: Southern livestock producers continued to plant crops for winter grazing. Dry soils in Texas limited growth and some stands may not provide any forage unless irrigated. Florida Panhandle pastures declined, but elsewhere provided good grazing. Rains throughout the West improved grass growth and reduced the fire danger. Cattle rated good and continued to move to winter pastures.

Weather Data for the Week Ending Oct. 21, 1979

States and Stations	Temperature °F						Precipitation					Relative Humidity, percent		Number of Days			
	Average maximum	Average minimum	Extreme high	Extreme low	Average	Departure from normal	Weekly total, in.	Departure from normal	Greatest in 24-hour, in.	Total, in., since Sept. 3	Pct. normal since Sept. 3	Average maximum	Average minimum	Temperature °F		Precipitation	
														90 and above	32 and below	.01 inch or more	.50 inch or more
ALA. Birmingham . . .	81	57	86	44	69	6	0	-.6	0	10.7	210	87	49	0	0	0	0
Mobile . . .	84	59	86	48	72	3	0	-.4	0	10.5	130	88	49	0	0	0	0
Montgomery . . .	82	54	86	41	68	3	0	-.4	0	5.1	88	91	45	0	0	0	0
ALASKA. Anchorage . . .	43	31	50	23	37	3	T	-.3	0	2.7	82	94	67	0	4	0	0
Barrow . . .	21	15	26	6	18	4											
Fairbanks . . .	36	21	47	15	29	5											
Kodiak . . .	51	40	53	34	45	5	1.5	.1	1.1	9.3	92	80	65	0	0	5	1
Nome . . .	39	30	43	25	34	7											
ARIZ. Flagstaff . . .	57	33	70	25	45	-1	1.3	1.0	1.3	1.4	54	84	44	0	5	1	1
Phoenix . . .	88	63	92	59	75	4											
Tucson . . .	85	59	91	56	72	2											
Winslow . . .	69	43	78	37	56	0											
Yuma . . .	90	63	94	57	77	2											
ARK. Fort Smith . . .	81	61	88	47	71	9											
Little Rock . . .	81	63	88	53	72	10	T	-.6	T	3.7	71	81	51	0	0	0	0
CALIF. Bakersfield . . .	80	62	83	50	71	5											
Eureka . . .	63	50	67	45	57	3	1.6	.8	.6	3.2	128	95	70	0	0	4	2
Fresno . . .	79	57	85	47	68	4											
Los Angeles . . .	71	61	74	54	66	1											
Red Bluff . . .	74	52	86	39	63	-1											
San Diego . . .	72	65	75	61	69	3											
San Francisco . . .	69	55	73	48	62	1											
Stockton . . .	75	55	84	43	65	2											
COLO. Denver . . .	66	44	78	34	55	3											
Grand Junction . . .	71	50	75	36	61	6											
Pueblo . . .	73	43	80	35	58	4											
CONN. Bridgeport . . .	62	49	68	39	55	-1	T	-.6	T	7.0	159	82	65	0	0	0	0
Hartford . . .	64	44	76	31	54	2											
D.C. Washington . . .	73	53	82	39	63	4	T	-.6	T	11.3	246	97	58	0	0	0	0
FLA. Apalachicola . . .	79	62	82	52	71	0											
Daytona Beach . . .	82	71	83	68	77	4	1.6	.4	1.4	15.5	144	92	63	0	0	3	0
Ft. Myers . . .	89	73	91	72	81	5											
Jacksonville . . .	82	63	84	52	72	2	T	-1.0	T	17.8	163	--	68	0	0	1	0
Key West . . .	85	77	87	75	81	2	1.6	.4	1.2	5.6	50	93	60	0	0	3	1
Miami . . .	84	74	86	70	79	1											
Orlando . . .	86	68	88	66	77	3											
Tallahassee . . .	81	60	86	50	71	2											
Tampa . . .	85	70	87	67	78	3											
W. Palm Beach . . .	84	74	86	72	79	2	2.9	.9	1.8	23.6	149	90	68	0	0	4	3
GA. Atlanta . . .	77	57	83	42	67	5											
Augusta . . .	79	52	83	36	66	2	T	-.5	T	5.5	120	96	53	0	0	0	0
Macon . . .	81	54	87	38	68	3											
Savannah . . .	81	61	85	47	71	5											
HAWAII. Hilo . . .	--	--	--	--	76	1	2.2	.4	--	7.5	54	--	--	0	0	0	0
Honolulu . . .	88	77	90	75	83	4											
Kahului . . .	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lihue . . .	--	--	--	--	79	2	1.1	.2	--	2.1	51	--	--	--	--	--	--
IDAHO. Boise . . .	59	42	68	37	50	-1	1.1	.9	.5	1.1	138	82	42	0	0	4	0
Lewiston . . .	58	47	68	43	53	1	1.0	.7	.5	1.4	93	86	59	0	0	5	0
Pocatello . . .	56	37	66	29	47	-1	.4	.2	.1	.6	75	82	50	0	1	4	0
ILL. Cairo . . .	80	63	87	56	61	10											
Chicago . . .	71	58	84	41	65	10											
Moline . . .	75	57	84	49	66	12											
Peoria . . .	75	57	86	50	66	11											
Rockford . . .	71	54	80	38	63	10											
Springfield . . .	76	59	89	53	68	12											
IND. Evansville . . .	76	56	86	40	66	8	T	-.6	T	3.7	84	84	47	0	0	1	0
Ft. Wayne . . .	71	52	81	36	62	9											
Indianapolis . . .	72	54	82	39	63	8											
South Bend . . .	71	57	80	41	64	11											
IOWA. Burlington . . .	80	56	85	50	66	11											
Des Moines . . .	76	54	85	46	65	11	1.8	1.3	1.0	2.6	59	83	50	0	0	2	2
Dubuque . . .	69	54	77	45	62	10											
Sioux City . . .	65	44	73	40	55	2											
KANS. Concordia . . .	78	50	84	38	64	7	T	-.4	T	.8	18	79	42	0	0	0	0
Dodge City . . .	78	49	84	32	64	6											
Goodland . . .	69	42	82	33	55	3											
Topeka . . .	77	54	86	46	66	8	2.8	2.2	1.8	3.6	72	80	53	0	0	3	2
Wichita . . .	83	59	92	48	71	12											
KY. Lexington . . .	74	53	83	37	63	6											
Louisville . . .	78	55	86	40	67	9	T	-.5	T	12.1	281	93	44	0	0	1	0

Based on preliminary reports and 1941-70 normals

Weather Data for the Week Ending Oct. 21, 1979

States and Stations	Temperature °F						Precipitation					Relative Humidity, percent		Number of Days					
	Average maximum	Average minimum	Extreme high	Extreme low	Average	Departure from normal	Weekly total, in.	Departure from normal	Greatest in 24-hours, in.	Total, in., since Sept. 3	Pct. normal since Sept. 3	Average maximum	Average minimum	Temperature °F		Precipitation			
														90 and above	32 and below	.01 inch or more	.50 inch or more		
LA. Baton Rouge . . .	83	62	87	47	72	4	T	-	.6	T	3.4	62	97	55	0	0	1	0	
Lake Charles . . .	85	64	89	48	75	5	T	-	.8	T	12.6	200	93	61	0	0	1	0	
New Orleans . . .	86	65	90	58	75	6	T	-	.4	T	3.0	44	90	53	1	0	1	0	
Shreveport . . .	84	61	90	47	73	6	T	-	.2	T	4.0	85	92	55	1	0	2	0	
MAINE. Caribou . . .	53	35	72	27	44	1	T	-	.6	T	6.1	113	86	53	0	4	3	0	
Portland . . .	58	34	75	27	46	-	2	.1	.6	T	9.2	184	93	57	0	4	2	0	
MD. Baltimore . . .	72	49	85	34	61	4	T	-	.6	T	11.9	259	94	49	0	0	1	0	
MASS. Boston . . .	63	45	80	34	54	-	1	T	.7	T	6.5	133	84	59	0	0	0	0	
Chatham . . .	59	45	64	36	52	-	-	0	-	0	5.4	110	87	69	0	0	0	0	
MICH. Alpena . . .	62	42	77	30	52	5	T	-	.1	T	2.1	48	-	-	0	1	2	0	
Detroit . . .	68	49	78	35	59	6	T	-	.2	T	2.1	57	88	65	0	0	1	0	
Flint . . .	68	53	79	39	60	10	T	-	.5	0	4	1.7	45	65	66	0	0	2	0
Grand Rapids . . .	68	55	80	39	62	10	T	-	.2	.4	1.1	22	89	74	0	0	3	0	
Houghton Lake . . .	62	47	71	27	55	8	T	-	.2	.4	1.6	33	80	65	0	1	1	0	
Lansing . . .	68	52	78	38	60	8	T	-	.2	.2	1.2	29	82	69	0	0	4	0	
Marquette . . .	58	35	67	22	46	-	2	.3	.2	.7	5.0	106	91	60	0	4	3	1	
Muskegon . . .	64	53	75	44	59	8	T	-	.8	.2	3.7	73	89	73	0	0	4	0	
S. Ste. Marie . . .	59	39	66	30	49	3	1.6	1.0	1.1	4.7	85	90	66	0	4	3	1		
MINN. Duluth . . .	57	40	68	29	49	4	1.4	.9	.8	3.1	69	81	57	0	1	3	1		
Internatl. Falls . . .	52	32	60	25	42	-	2	.4	0	.3	1.3	30	78	59	0	4	2	0	
Minneapolis . . .	64	44	73	37	54	5	1.1	.7	1.1	3.7	97	88	53	0	0	2	1		
Rochester . . .	64	47	76	39	56	6	1.6	1.2	.9	3.0	70	80	64	0	0	3	2		
St. Cloud . . .	62	40	70	30	51	4	1.0	.6	.8	3.2	89	94	-	-	0	2	1		
MISS. Jackson . . .	83	56	87	39	69	4	0	-	.5	0	5.9	137	97	47	0	0	0	0	
Meridian . . .	83	53	86	38	68	4	0	-	.4	0	8.2	178	95	48	0	0	0	0	
MO. Columbia . . .	78	60	86	53	69	11	2.4	1.7	1.3	2.4	36	83	53	0	0	4	1		
Kansas City . . .	75	60	86	52	67	10	1.8	1.1	1.1	2.3	36	74	60	0	0	4	1		
St. Louis . . .	75	61	88	49	68	9	1.1	.5	.9	1.2	26	82	57	0	0	4	1		
Springfield . . .	80	61	88	54	71	12	1.4	.6	.5	1.7	27	79	48	0	0	2	0		
MONT. Billings . . .	58	41	66	32	49	0	.5	.3	.2	.7	33	77	48	0	1	5	0		
Glasgow . . .	55	36	71	31	46	0	.5	.4	.4	.8	72	83	51	0	2	2	0		
Great Falls . . .	53	34	62	27	43	-	5	.6	.5	.4	1.0	63	75	52	0	4	4	0	
Havre . . .	54	36	65	25	45	-	1	.4	.3	.3	1.3	87	80	49	0	2	4	0	
Helena . . .	55	35	63	26	45	0	.4	.3	.3	.5	42	85	43	0	3	4	0		
Kalispell . . .	53	34	64	22	43	1	1.1	.8	.4	1.5	75	96	60	0	3	5	0		
Miles City . . .	59	40	73	28	49	1	.2	.1	.3	.3	18	82	45	0	2	2	0		
Missoula . . .	53	38	60	26	46	2	.9	.7	.4	.9	56	90	51	0	1	4	0		
NEBR. Grand Island . . .	70	42	77	34	56	3	T	-	.2	T	2.0	63	79	40	0	0	0	0	
Lincoln . . .	73	47	81	41	60	6	.4	.1	.4	.8	20	81	55	0	0	2	0		
Norfolk . . .	66	42	74	36	54	2	1.5	1.2	1.5	3.3	100	80	48	0	0	1	1		
N. Platte . . .	71	39	86	32	55	5	.9	.7	.9	1.3	48	72	33	0	1	1	1		
Omaha . . .	68	51	81	46	59	5	1.2	.8	1.0	3.3	79	82	48	0	0	2	1		
Valentine . . .	64	35	83	28	49	0	.4	.2	.3	1.8	86	78	43	0	2	2	0		
NEV. Ely . . .	60	33	69	29	47	1	.7	.6	.4	.8	100	69	32	0	5	2	0		
Las Vegas . . .	81	57	87	49	69	3	0	-	.1	0	0	42	20	0	0	0	0		
Reno . . .	63	39	74	25	51	1	.2	.1	.1	.3	50	77	33	0	1	2	0		
Winnemucca . . .	61	36	70	31	49	1	.6	.5	.3	.6	86	82	37	0	2	3	0		
N.H. Concord . . .	62	31	80	22	46	-	2	T	.6	T	6.5	138	86	50	0	5	1	0	
N.J. Atlantic City . . .	70	47	80	30	58	2	0	-	.8	0	5.5	112	88	54	0	1	0	0	
Trenton . . .	68	51	78	41	60	1	T	-	.6	T	9.8	204	95	-	-	0	0	0	
N.MEX. Albuquerque . . .	77	47	82	39	62	5	.2	0	.2	.6	46	64	20	0	0	1	0		
Roswell . . .	84	52	90	45	68	9	0	-	.3	0	.1	4	-	-	0	2	0	0	
N.Y. Albany . . .	66	40	81	28	53	2	T	-	.6	T	7.2	153	84	45	0	2	0	0	
Binghamton . . .	63	45	80	35	54	4	.1	-	.6	.1	6.1	125	85	55	0	0	2	0	
Buffalo . . .	64	49	76	41	57	6	.5	-	.2	.4	8.7	171	82	62	0	0	3	0	
New York . . .	66	52	77	45	59	2	0	-	.7	0	7.6	162	86	58	0	0	0	0	
Rochester . . .	64	46	77	35	55	3	.4	-	.2	.3	7.0	175	78	63	0	0	2	0	
Syracuse . . .	65	45	81	33	55	3	.1	-	.6	.1	6.4	142	81	54	0	0	1	0	
N.C. Asheville . . .	74	44	79	29	59	3	T	-	.7	T	6.0	107	-	-	51	0	1	0	
Charlotte . . .	75	51	80	35	63	2	T	-	.6	T	11.2	224	97	52	0	0	0	0	
Greensboro . . .	74	48	80	33	61	3	0	-	.6	0	15.2	287	93	53	0	0	0	0	
Hatteras . . .	74	54	80	45	64	-	1	0	-	1.1	0	14.1	162	89	61	0	0	0	0
Raleigh . . .	79	50	84	34	65	5	0	-	.6	0	7.8	144	96	49	0	0	0	0	
Wilmington . . .	78	54	82	43	66	2	0	-	.7	0	15.3	201	92	51	0	0	0	0	
N.DAK. Bismarck . . .	58	30	70	23	44	-	2	T	.2	T	.8	42	74	39	0	4	1	0	
Fargo . . .	57	33	69	24	45	-	2	.3	.1	.2	.6	24	77	51	0	2	2	0	
Williston . . .	56	35	68	30	45	0	.2	.1	.1	.2	.5	33	83	49	0	2	2	0	
OHIO. Akron-Canton . . .	68	50	78	34	59	6	.1	-	.4	T	9.4	235	82	51	0	0	2	0	
Cincinnati . . .	74	54	83	37	64	8	T	-	.5	T	9.6	253	83	47	0	0	0	0	
Cleveland . . .	69	52	81	38	61	8	T	-	.6	T	4.7	107	85	58	0	0	1	0	
Columbus . . .	71	52	81	32	61	8	.3	-	.1	.1	8.1	231	90	59	0	1	2	0	
Dayton . . .	72	51	81	36	62	7	.2	-	.2	.2	5.0	147	78	50	0	0	1	0	
Toledo . . .	69	52	81	35	60	8	.4	-	.1	.3	4.6	121	83	65	0	0	3	0	
Youngstown . . .	69	51	80	36	60	8	T	-	.7	T	6.6	153	83	52	0	0	1	0	

Based on preliminary reports and 1941-70 normals

Weather Data for the Week Ending Oct. 21, 1979

States and Stations	Temperature °F						Precipitation					Relative Humidity, percent		Number of Days			
	Average maximum	Average minimum	Extreme high	Extreme low	Average	Departure from normal	Weekly total, in.	Departure from normal	Greatest in 24-hours, in.	Total, in., since Sept. 3	Pct. normal since Sept. 3	Average maximum	Average minimum	Temperature °F		Precipitation	
														90 and above	32 and below	.01 inch or more	.50 inch or more
OKLA.Okla. City . . .	84	63	93	57	74	12	.7	.1	.5	1.0	19	80	45	1	0	3	1
Tulsa . . .	84	64	91	55	74	12	1.1	.4	1.0	1.2	19	74	49	2	0	2	1
OREG.Astoria . . .	59	43	64	36	51	- 1	2.4	.8	.9	6.5	94	95	68	0	0	5	3
Burns . . .	55	35	63	29	45	- 2	.5	.3	.4	1.1	122	90	39	0	1	4	0
Medford . . .	63	47	73	39	55	- 3	1.2	.7	.6	2.2	122	87	53	0	0	4	1
Pendleton . . .	57	42	66	36	50	- 2	1.1	.8	.4	1.6	133	86	54	0	0	3	1
Portland . . .	59	48	69	44	53	0	2.1	1.3	1.3	3.0	83	95	70	0	0	5	1
Salem . . .	58	43	69	32	50	- 2	3.1	2.2	1.3	3.6	95	95	70	0	1	4	3
PA.Allentown . . .	67	46	79	37	56	3	T	.6	T	10.5	202	94	58	0	0	1	0
Erie . . .	70	53	82	43	62	9	.3	.4	.3	8.0	148	--	--	0	0	1	0
Harrisburg . . .	70	46	83	37	58	3	T	.6	T	9.7	231	94	53	0	0	0	0
Philadelphia . . .	70	48	80	37	59	2	T	.6	T	8.4	183	99	55	0	0	0	0
Pittsburgh . . .	68	49	79	35	59	6	.3	.3	.2	5.9	140	80	47	0	0	2	0
Scranton . . .	66	47	81	36	57	5	T	.6	T	8.0	182	84	51	0	0	0	0
R.I.Providence . . .	64	45	76	31	54	1	0	.7	0	7.8	153	81	57	0	1	0	0
S.C.Charleston . . .	81	58	84	42	70	4	T	.7	0	19.7	274	94	55	0	0	0	0
Columbia . . .	79	48	84	32	64	0	T	.6	T	9.9	165	100	50	0	1	0	0
Greenville . . .	75	50	80	34	62	1	.3	.4	.3	8.4	147	97	54	0	0	1	0
S.DAK.Aberdeen . . .	59	33	72	24	46	- 2	.1	.2	T	.1	4	76	47	0	3	1	0
Huron . . .	60	36	70	27	48	- 2	.7	.3	.5	.7	25	79	54	0	1	2	0
Rapid City . . .	63	42	77	33	52	3	.4	.2	.2	.6	33	82	49	0	0	3	0
Sioux Falls . . .	63	40	69	35	52	2	.5	.2	.5	4.6	118	91	55	0	0	2	0
TENN.Chattanooga . . .	77	50	81	38	63	3	0	.6	0	8.3	157	95	56	0	0	0	0
Knoxville . . .	76	48	83	35	62	2	0	.6	0	3.9	89	95	48	0	0	0	0
Memphis . . .	83	63	89	54	73	11	.1	.5	.1	3.6	78	72	44	0	0	2	0
Nashville . . .	79	55	85	40	67	7	0	.4	0	11.7	266	91	44	0	0	0	0
TEX.Abilene . . .	90	66	93	63	78	13	T	.6	T	0	0	74	26	4	0	1	0
Amarillo . . .	81	49	86	39	65	6	T	.4	T	.5	16	57	29	0	0	1	0
Austin . . .	90	71	92	65	81	11	T	.7	0	1.4	25	86	41	5	0	0	0
Beaumont . . .	85	69	87	56	76	7	0	.8	0	6.4	84	97	62	0	0	0	0
Brownsville . . .	91	72	93	68	82	6	T	.7	T	8.7	116	90	51	6	0	0	0
Corpus Christi . . .	90	73	91	68	81	8	T	.6	0	12.9	187	94	57	5	0	0	0
Del Rio . . .	92	70	95	68	81	10	0	.4	0	.7	16	86	33	6	0	0	0
El Paso . . .	85	51	90	46	68	4	0	.2	0	.4	24	46	15	1	0	0	0
Fort Worth . . .	86	66	94	61	76	9	1.9	1.3	1.6	2.9	59	86	53	2	0	2	1
Galveston . . .	82	75	93	71	78	6	0	.5	0	10.1	138	89	73	1	0	0	0
Houston . . .	89	66	91	54	77	7	T	.9	T	9.1	128	98	56	4	0	0	0
Lubbock . . .	86	55	92	45	71	10	T	.5	T	.2	5	64	23	1	0	0	0
Midland . . .	87	59	91	54	73	8	.4	.1	.4	1.0	37	90	25	3	0	2	0
San Angelo . . .	89	65	92	59	77	10	.9	.5	.9	1.0	24	79	29	4	0	1	1
San Antonio . . .	91	74	92	71	82	12	T	.6	T	.8	14	84	42	5	0	0	0
Victoria . . .	89	69	91	65	79	7	T	.8	T	9.1	130	95	58	3	0	0	0
Waco . . .	87	69	90	62	78	10	.6	0	.6	3.1	62	92	49	2	0	1	1
Wichita Falls . . .	86	65	94	57	75	10	1.0	.4	.9	1.0	20	67	48	3	0	2	1
UTAH.Blanding . . .	66	40	75	28	53	2	.7	.4	.4	.8	40	60	26	0	1	2	0
Salt Lake City . . .	63	41	73	33	52	0	1.3	1.0	.6	1.4	100	86	49	0	0	4	2
VT.Burlington . . .	57	38	75	27	47	- 1	.5	.1	.3	6.3	137	81	56	0	4	3	0
VA.Lynchburg . . .	73	46	80	29	60	2	0	.6	0	12.4	258	95	--	0	1	0	0
Norfolk . . .	74	49	83	29	62	1	0	.7	0	14.6	243	95	50	0	1	0	0
Richmond . . .	75	49	83	35	62	4	0	.6	0	12.6	238	--	54	0	0	0	0
Roanoke . . .	73	44	83	30	59	2	0	.7	0	12.1	220	98	48	0	1	0	0
WASH.Colville . . .	52	38	67	30	45	- 1	1.0	.7	.4	1.4	88	--	--	0	1	5	0
Omak . . .	54	37	68	28	45	- 1	1.4	1.2	1.2	1.4	156	--	--	0	2	5	1
Quillayute . . .	58	40	64	34	49	- 1	2.0	.8	1.2	8.9	72	92	62	0	0	3	2
Seattle-Tacoma . . .	57	47	62	41	52	0	.9	0	.5	2.3	53	83	51	0	0	4	1
Spokane . . .	54	41	64	36	47	0	.9	.6	.5	1.3	76	84	57	0	0	4	0
Walla Walla . . .	59	48	68	42	54	0	1.6	1.2	1.1	2.3	128	86	61	0	0	4	1
Yakima . . .	59	36	72	29	48	- 2	.2	.1	.2	.3	43	82	49	0	3	1	0
W.VA.Beckley . . .	72	46	79	27	59	6	T	.5	T	6.7	140	96	45	0	1	1	0
Charleston . . .	76	47	86	29	61	5	T	.5	T	7.2	164	96	40	0	1	0	0
Huntington . . .	75	49	85	31	62	6	T	.4	T	7.7	193	89	44	0	1	0	0
Parkersburg . . .	73	51	83	33	62	6	T	.4	T	6.7	168	80	42	0	0	1	0
WISC.Green Bay . . .	65	44	75	34	54	5	.3	.1	.2	1.5	33	89	72	0	0	3	0
La Crosse . . .	65	49	74	37	57	5	1.7	1.3	1.1	3.2	70	97	70	0	0	3	1
Madison . . .	66	47	81	30	56	7	.5	0	.5	1.1	23	88	68	0	1	1	1
Milwaukee . . .	67	53	79	36	60	9	.8	.4	.5	1.2	29	62	69	0	0	2	0
WYO.Casper . . .	58	35	72	24	47	- 1	.2	0	.1	.4	29	75	36	0	2	3	0
Cheyenne . . .	59	39	70	29	49	1	.2	0	.2	.5	31	63	37	0	1	2	0
Lander . . .	59	36	71	27	48	1	.2	.1	.2	.2	11	76	37	0	2	1	0
Sheridan . . .	58	38	72	32	48	1	1.2	1.0	.7	1.8	95	86	50	0	1	2	2
P.R.San Juan . . .	91	76	94	75	84	3	0	1.3	0	10.4	109	91	58	7	0	0	0

Based on preliminary reports and 1941-70 normals

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 ESCS State offices in cooperation with the National Weather Service.

ALABAMA: Warm, dry, temperatures 6° above normal. No rain.

Fieldwork: 6.1 days suitable. Soil moisture short southwest corner, mostly adequate elsewhere. Corn, peanut, soybean harvest main activities. Corn 86% picked, 87% 1978, 63% average. Soybeans 98% turning yellow, 97% 1978; 80% dropping leaves; 62% mature, 76% 1978, 72% average; 32% harvested, 41% 1978, 22% average. Cotton 73% bolls open, 92% 1978, 73% average; 22% harvested, 61% 1978, 25% average. Peanuts 98% dug, 96% 1978; 96% combined, 94% 1978. Wheat 42% seeded, 51% 1978, 52% average. Sorghum 66% harvested, 60% 1978. Condition of soybeans good to excellent; cotton mostly good; pastures mostly good; pecans poor to fair.

ARIZONA: Generally fair early week, light rains south, heavy rains central mountains near midweek, snow traces mountain stations above 7,000 feet. Temperatures within 4° normal.

Cotton harvest full swing, picking running ahead of last year and average. Defoliation active. Scrapping residue disposal underway west. Corn, sorghum harvest good progress. Alfalfa haying slowing; planting, renovation active. Small grain activities continued. Early planted fields up to stand. Lettuce harvest winding down southeast. Other fall lettuce good progress. Thinning active some fields. Other mixed vegetables growing well. New carrot harvest underway. Lemon harvest full swing Yuma, central areas. Grapefruit harvest active. Gasoline, LP gas, diesel supplies mostly adequate, except extreme southeast where gasoline, diesel, adequate to tight. Cattle, calves fairly good condition. Lower, mid-elevation ranges deteriorating, dry weather. Higher ranges reasonably good condition. Water hauling, supplemental feeding required some areas.

ARKANSAS: Warmer than normal week. Highest normal 66°, lowest 69°. Highest mean 75°, lowest 68°. Highest temperature 92°, lowest 34°.

Crop gathering brisk. Soybean and cotton harvest increasing. Fieldwork: 5.9 days suitable. Soil moisture mostly short; precipitation needed. Diesel 79% adequate, 17% tight; gasoline 88% adequate, 10% tight; LP gas 96% adequate. Soybean late fields need rain; 69% matured; 23% harvested, 19% 1978, 22% average; combining increasing. Weather aided cotton boll development; open bolls 75%, 88% 1978, 81% average; harvesting 25%, 57% 1978, 44% average. Rice harvesting continued at rapid pace; harvesting 87% complete, 98% 1978, 90% average. Corn harvest 45% complete, 58% 1978, 86% average. Sorghum harvesting increased; combining 84% complete, 95% 1978, 88% average. Small grains planting slowed by dry weather, rain needed. Wheat 38% seeded, 43% 1978, 41% average. Aerial seeding behind soybeans. Planting increasing oats; 34% seeded, 41% 1978, 47% average. Apple harvest almost complete. Hay making completed. Pastures average condition needing rain. Cattle condition fair to good. Control measures being continued on insects.

CALIFORNIA: Fair weather resumed midweek. First major storm of season 19th brought precipitation to most areas except southeast deserts. Rainfall heavy on north coast and in Sierra with snow level at 5,000 feet. Temperatures above normal except last two days.

Cotton harvest 29% complete; shredding and disking started on cotton stubble. Gin holding areas filling up. Rice harvest 68% complete. Moisture content very high Sacramento Valley. Corn harvest nearing completion. Sorghum harvest active. Dry bean harvest nearing completion some areas. Small grain planting just getting started. Avocado movement declining. Raisins all boxed. Table grape harvest continued. Wine grape harvest winding down. Olive harvest continued. Persimmon harvest increasing. Quality good. Desert grapefruit harvest light. Desert valley lemon movement increasing. Navel orange progress good. Coloring reported. Valencia orange harvest winding down. Almond and walnut harvests continued. Brussels sprouts movement to freezers steady, some fresh market. Broccoli fairly heavy central coast. Cantaloup harvest active desert. Carrot harvest intermittent according to demand. Heavy diversion cauliflower to freezers. Celery heavy supply central coast. Lettuce increasing San Joaquin Valley, decreasing central coast. Potato harvest hampered by rain Tulalake-Butte Valley. Market tomatoes available south coast, San Joaquin Valley. Rains reduced range fire danger. Supplemental feeding increasing. Calving, lambing active. Cattle, sheep continue graze harvested fields. Farm fuels generally adequate.

COLORADO: Mild and dry until 20th and 21st when moderate amounts of rain and/or snowfall were received. Temperatures averaged near or above normal.

Winter wheat emerged 91%, 82% 1978, 84% average; very good condition. Corn grain harvest 27%, 50% 1978, 46% average; some damage from corn borer. Sorghum grain harvest 29%, 32% 1978, 34% average. Sorghum forage harvest nearing completion. Dry beans threshed 96%, 100% 1978, 96% average. Fall potato harvest in San Luis Valley virtually complete. Fieldwork: 6 days suitable. Ranges and pastures good condition. Livestock very good condition. Fuel supplies adequate.

FLORIDA: Dry, mostly sunny, however, heavy, early week rains fill in parts of southeast with daily amounts exceeding 0.50 in. Showers localized in east coast sections and a few showers came inland. Northern Panhandle generally remained dry with little or no rain. After some cooler readings early week, temperatures generally averaged 2 to 3° above normal. Brisk northeast winds 15th and 16th, became more easterly and dissipated during week. Temperatures ranged from a high of 91° southwest to a low of 41° central Panhandle.

Soil moisture variable, mostly adequate to surplus south, central, adequate to short north, west. Peanut harvest winding down; some areas complete. Excessive rains September reduced yields some areas. Combining soybeans active. Rains damaged beans some areas. Haymaking continued. Sugarcane condition good; grinding expected soon. Land preparation, seeding small grains continued. Fuel supplies mostly adequate, but short few central, south areas. Panhandle pastures declining - mostly poor to fair. Fungal problems persist in central areas; remainder generally good to excellent. Winter forage crops being planted northern areas. Cattle good condition. Citrus groves excellent condition; fruit harvest increasing as more groves meet maturity standards for fresh shipments. Cloudy skies, numerous showers

prevalent early week in vegetable farming areas. Days warm, nights mild. Rainfall variable, less than an inch, up to 4.00 in. Very little rainfall recorded late week. Plant development, progress very good. Crops generally fair to mostly good, some excellent. Harvest active eggplant, cucumbers, okra, sweet corn, squash. Harvest light snap beans, tomatoes. Pepper harvest expected to start this week southeast. Gadsden County pole bean, squash harvests active. Radish harvest underway Everglades area. Strawberry transplanting underway Plant City area.

GEORGIA: Temperatures within 2° of normals. Dry except extreme south less than 0.33 in. Rain 16th to 17th. Cooler first of week, below freezing mountains mornings 14th and 15th. Afternoon highs in 70's north and 80's south.

Soil moisture short to mostly adequate. Fieldwork: 6 days suitable. Corn fair to good; 90% harvested, 90% last year, 75% average. Soybeans fair to mostly good; 16% harvested, 23% last year, 15% average. Peanuts 99% dug, 94% threshed, last year 99% dug, 98% threshed, average 97% dug, 94% threshed. Cotton fair to good; 90% open, 93% last year; 33% harvested, last year 48%, average 35%. Pecans mostly fair to good; 7% harvested, last year 8%, average 10%. Apples 97% harvested, last year 95%. Hay and pasture fair to mostly good. Hogs and cattle good. Wheat 27% planted, 21% last year. Rye 41% planted, 22% last year. Other small grains 37% planted, 20% last year, average 40%. LP gas 93% adequate, 4% tight; diesel fuel 92% adequate, 8% tight; gasoline 93% adequate, 6% tight.

HAWAII: Flash flood hits again, Ka'u district, Island Hawaii. Elsewhere, weather favorable Island Chain. Showers light, beneficial in some areas. More property, nursery damage. Also, coffee, banana orchards sustained partial damage. Spraying frequent for insect, disease control.

Vegetable supplies: Manoa lettuce light. Crop condition improving. Snap bean harvest continued light, others adequate. Banana supplies light. Papaya supplies increasing. Some puna orchards active harvest. Pineapple harvesting light. Plantings active. Sugar harvesting steady. Pastures generally good. Fuel supplies adequate.

IDAHO: Temperatures average to 6° above normal. Range: 23 and 85°. Precipitation reported in most areas. Maximum reported precipitation 2.11 in. Fall harvest and seeding progress normal. Potato digging 90% complete, same as last year. Onions 95% harvested, same as last year. Apples 40% picked. Sugarbeets 25% lifted, 20% last year. Winter wheat and barley 95% seeded, same as last year. Ranges poor to fair with limited improvement expected from recent rains.

ILLINOIS: Temperatures 6 to 12° above normal. Some maximum records set. Precipitation mostly 0.20 to 1.00 in. northern 2/3, less extreme south.

Soil moisture short. Corn 35% harvested, 59% 1978, 45% average. Soybeans 89% combined, 1978 81%, average 80%. Grain sorghum 50% harvested. Winter wheat seeding 80% complete, 76% 1978, 74% average; emerged 20% 1979. Plowing 1980 corn, soybean acres 20%, 25% 1978, average 20%. Pasture condition fair. Fieldwork: 5.8 days suitable.

INDIANA: Unusually warm but cloudy week. Temperatures averaged 12° above normal and ranged from 40 to 86°. Daily lows in high 40's, daily highs in low 80's. Rainfall early week from zero

extreme south to 0.50 in. central, north.

Fieldwork: 5 days suitable. Topsoil and subsoil moisture adequate. Corn 25% harvested, 1978 35%, average 35%. Soybeans 55% harvested, 55% 1978, average 70%. Wheat 65% seeded, 1978 70%, average 75%; 30% emerged, 1978 40%, average 40%. Spring cropland 15% plowed, average 20%. Rye 85% seeded, 1978 75%, average 85%. Apples 70% picked, 1978 75%, average 85%.

IOWA: Unusually mild week, dry spell ended. Both temperature and precipitation averaged well above normal.

Fieldwork: 6.4 days favorable. Corn harvested 27%, 1978 57%, normal 50%. Soybean acreage harvested 96%, 1978 71%, normal 82%. Fall plowing 19%, 1978 11%, normal 16%. Topsoil moisture short to adequate. Subsoil moisture adequate. Livestock good condition; market movement normal, herd replacement remains slow. Pasture condition fair to good; only fair southeast, very poor south central.

KANSAS: Moisture ranged from 1.50 in. east to 0.75 in. central and generally less than 0.10 in. west. Temperatures averaged from 60° northwest to 68 to 71° east and south central or from 6° above normal southwest to 8 to 12° above normal elsewhere.

All corn mature; harvested 60%, last year 80%, average 55%. Grain sorghum matured 95%, same as year ago, 85% average; harvested 50%, last year 60%, average 40%. Soybeans harvested 75%, 60% last year, 30% average. Wheat planted 85%, 95% year ago, 85% average. Wheat prospects now improved with month-long drought broken. Fieldwork: 4.5 days suitable.

KENTUCKY: Temperatures averaged 10 to 15° above normals with little or no rainfall.

Fieldwork: 5.3 days suitable. Soil moisture adequate. Harvest picked up under favorable weather. Corn harvest 50% complete, last year 65%, average 56%. Soybean harvest 28% complete, last year 37%, average 40%. Some soybeans damaged due to heavy frost 14th. Burley 10% stripped, another 40% ready for stripping. Burley market to open November 19. Wheat seeding still lagging, 38% complete.

LOUISIANA: Temperatures 8 to 11° above normal. Extremes: 92 and 41°. Few showers.

Fieldwork: 6.6 days suitable. Soil moisture short to adequate. Soybeans good; 99% turning color; 90% shedding leaves, 90% last year; 56% harvested, 56% last year, 53% average. Cotton good; 98% acreage with bolls open; 35% harvested, 72% last year 46% average. Sorghum 93% harvested, 94% last year. Sugarcane 96% planted, 92% last year; 5% harvested, 7% last year, 9% average; good condition. Oats and wheat 49% seeded, 68% last year, 61% average. Pecans fair. Hay, pastures fair to good. Cattle good.

MARYLAND & DELAWARE: Temperatures averaged 3° below normal. Highs in mid to upper 60's except low 60's in mountains; lows in low to mid-40's except low 30's in mountains. Precipitation very light averaging about 0.25 in.

Fieldwork: 4.3 days suitable. Soil moisture mostly adequate. Fuel supplies adequate. Corn for silage 95%, about a week behind normal pace. Corn for grain 65%, 74% last year, 70% normal. Soybeans yellowed 85%, 97% last year, 95% average; 75% shed leaves, 96% last year, 89% normal; harvest started in some areas over 10% complete. Apple crop in good condition.

MICHIGAN: Mild, temperatures averaged 5 to 10° above normal. Precipitation averaged 0.20 in. south to 0.75 in. north and northwest.

Fieldwork: 4 days suitable. Soil moisture adequate. Pasture feed supplies average. Corn 90% mature, 90% last fall, 98% normal; 10% corn harvested, 15% last year, 22% normal. Soybeans mature 90%, 95% last season, 100% normal; 16% harvested, 31% last year, 49% normal. Winter wheat 95% seeded, 76% last fall, 83% normal. Corn silage 95% chopped, 91% last season and normal. Dry beans 100% harvested, 91% last year, 86% normal. Potatoes 95% dug, 85% last fall and normal. Sugarbeet harvest 45%, 36% last season, 34% normal. Third cut haymaking complete. Grape harvest 90% complete. Ida Reds, Northern Spies 80% picked. Jonathans and Red Delicious 85% picked. Cabbage 85% harvested, carrots 95%, cauliflower 70% cut. Celery harvest complete.

MINNESOTA: Temperatures averaged 4 to 7° above central and south, near normal elsewhere. Extremes: 76 and 20°. Precipitation averaged near normal west, greater than 0.50 in. above central, east, over 1.00 in. extreme southeast. Precipitation totals generally 0.50 in. or less west, greater than 1.00 in. east. Extremes 0.04 to 1.70 in.

Good progress harvesting soybeans, sugarbeets, potatoes. Corn harvest for grain slow. Soil moisture adequate southern third and northeast, short central and northwest.

Harvested: Corn 11%, 1978 61%, normal 64%; soybeans 83%, 1978 87%, normal 89%; sunflowers 59%, 1978 88%, normal 77%; flax 94%, 1978 96%, normal 97%; sugarbeets 82%, 1978 95%, normal 88%; potatoes 96%, 1978 97%, normal 95%; corn silage 92%, 1978 99%, normal 99%.

MISSISSIPPI: Temperature 4° above to 3° below normal. Extremes: 29 and 88°. No rainfall. Some frosts north.

Soil moisture short to adequate. Fieldwork: 6.1 days suitable. Soybean harvest moved ahead of average. Cotton harvest in full swing. Dry weather good for harvesting activities but hurting winter grazing crops. Soybeans 99% shedding, 99% 1978, 93% average; 71% mature, 79% 1978, 69% average; 35% harvested, 41% 1978, 32% average; crop in good condition. Cotton 100% open bolls, 92% average; 28% harvested, 76% 1978, 44% average; crop in fair to good condition. Rice 85% harvested, 98% 1978, 87% average. Corn 78% harvested, 81% 1978, 72% average. Sorghum 87% harvested, 93% 1978, 82% average. Sorghum silage 95% harvested. Hay crops 95% harvested, 96% 1978, 82% average. Sweetpotatoes 79% harvested, 77% 1978, 77% average. Peanuts 78% harvested, 93% 1978, 90% average. Winter wheat 46% planted, 53% 1978, 60% average. Pecans 3% harvested, 7% 1978; crop in poor condition. Pastures in fair to good condition. Diesel and gasoline supplies adequate to tight. LP gas supplies adequate.

MISSOURI: Temperatures 5 to 7° above normal. No rain Bootheel, 1.00 to 2.00 in. elsewhere.

Fieldwork: 5.5 days suitable. Corn 48% harvested, last year 51%, normal 54%. Soybeans 90% mature, last year 89%, normal 83%. Soybeans 70% harvested, last year 45%, normal 46%. Grain sorghum 93% mature, last year 89%, normal 96%; 60% harvested, last year 53%, normal 56%. Cotton 46% harvested, last year 65%, normal 43%. Winter wheat 62% seeded, last year 60%. Plowing for spring planted crops 22%, last year 21%. Pastures mostly poor to fair. Soil moisture mostly short. Fuel supplies mostly tight to adequate.

MONTANA: Very warm temperatures early week with major cooling by end of week. Temperatures averaged a few degrees above normal. Significant precipitation with heavy precipitation west of Divide and south central areas.

Soil moisture continued short. Fieldwork: 6 days suitable. Winter wheat 95% planted, 100% 1978, 100% normal; condition and germination fair. Potatoes harvest 90%, 85% 1978, 80% average. Sugarbeets harvested 75%, 75% 1978, 70% average. Cattle 70%, sheep 75% move from summer ranges. Livestock in good condition.

NEBRASKA: Temperatures averaged 2 to 5° above normal with Indian Summer. Precipitation in form of scattered showers.

Corn harvest 35% complete, year ago 55%, normal 45%. Sorghum harvest 60% complete, year ago 70%, normal 65%. Soybean harvest 95% complete, year ago 85%, normal 75%. Wheat condition fair to poor. Diesel 95% adequate, 5% tight; gasoline 95% adequate, 5% tight; LP gas 100% adequate. Fieldwork: 6.5 days suitable.

NEVADA: Weak upper level disturbances brought light showers north early week. Strong storm brought significant amounts rain to all but extreme south. Precipitation less than 0.25 in. northwest to larger amounts northeast and south. Only traces extreme south. Temperature extremes: 87 and 19°. Strong winds 19th and 20th.

NEW ENGLAND: Unseasonably cold weather early week. Warming trend beginning midweek and continuing through weekend. Extremes: 80 and 23°. Light precipitation central north.

Apple harvest continued. Potato harvest nearing completion.

NEW JERSEY: Temperatures averaged 1 to 3° above normal. Extremes: 31 and 84°. No measurable rainfall. Soil moisture in percent of field capacity averaged 94% north, 90% central, 88% south. Soil temperature averaged 57° north, 62° central, south.

Fieldwork: 4.6 days suitable. Warmer temperatures advanced late season crop growth. Harvest of hardy fall vegetables continued. Apple and cranberry harvest well advanced. Some hay and corn silage still being made. Combining of corn for grain and soybeans continued as conditions permitted. Earlier wet weather caused some losses. Irish potato harvest nearing completion. Sweet-potato digging over 50% finished.

NEW MEXICO: Few light showers northern mountains midweek then widespread rains and snows all but southeast and southern deserts 21st. Sharply colder weekend with general freeze north half 22d.

Warm dry weather favorable for harvest and maturing crops. No killing freeze yet major areas. Soil moisture supply declining. Picking cotton increasing slowly; 60% bolls open south. Combining grain sorghum slowly gaining momentum; 10% harvest, 40% last year. Corn, red chile, apples, peanuts, sugarbeets, potatoes harvest seasonally. Lettuce full swing. Pecans good condition, hulls starting to open. Ranges fair, livestock good, fall shipping active.

NEW YORK: Rainfall averaged below normal. Temperatures normal. Record high temperatures by weekend.

Wet field conditions slowed harvesting progress. Corn silage 75% cut, 90% 1978. Grain corn 15% harvested, 30% 1978. Dry bean harvest moving slowly. Harvest of most vegetable crops about complete. Cabbage and potato harvests well along.

Late variety apple harvests active. Concord grape harvest nearly done, Catawba harvest well along.

NORTH CAROLINA: Temperatures averaged about normal. Precipitation below normal.

Fieldwork: 5.4 days suitable. Soil moisture adequate. Condition of soybeans, pasture fair to mostly good; peanuts, cotton fair to good. Harvested: Peanuts dug 54%, 1978 94%, average 85%; peanuts threshed 35%, 1978 80%, average 72%; sweet-potatoes 77%, 1978 84%, average 75%; soybeans 10%, 1978 12%, average 8%; corn for grain 83%, 1978 90%, average 82%; apples 88%, 1978 90%, average 89%; sorghum grain 60%, 1978 71%, average 67%; cotton 20%, 1978 32%, average 25%. Wheat planted 24%, 1978 34%. Phenological stages: Cotton open bolls 78%; soybeans pod set complete; soybeans leaf drop 41%.

NORTH DAKOTA: Temperatures averaged near normal. Extremes: 71° west central to 21° west central and southeast. First portion of week dry but light precipitation weekend. Largest amount 0.40 in. north central.

Cool weather and occasional showers again delayed sunflower harvest. Progress about 9 days behind last year. Combining 41% complete; last year 70%. Even with dryer weather, which is needed to reduce the moisture content of sunflower, completion of harvest will still take two to three weeks. Corn harvest about 50% complete. Flaxseed and sugarbeets could be finished this week. Soil moisture levels continue to be low. Topsoil and subsoil moisture short. Livestock and hay being moved to winter feeding areas. Pastures in poor condition.

OHIO: In spite of humid conditions, strong winds kept drying rates high. Temperatures as high as 11° above normal. Most rain fell early week; totals below normal. Good drying weather late week went a long way in drying soils.

Much harvesting accomplished over weekend. Farmers concentrating on soybean and wheat ground. Sugarbeet harvest stopped 17th due to unseasonably warm weather. Wheat 40% emerged, condition good, improved considerably over past 7 days. More lodging of corn reported. Corn for grain harvested 25%, 40% 1978, 35% average. Soybeans harvested 45%, 65% 1978, 70% last year. Sugarbeets harvested 15%, 30% 1978, 25% average. Apples harvested 70%, 70% 1978. Potatoes harvested 85%, 90% 1978, 90% average. Corn silage harvested 90%, 100% 1978, 100% average. Wheat planted 55%, 80% 1978, 80% average. Fieldwork: 4 days favorable. Pasture condition good. Soil moisture adequate to surplus.

OKLAHOMA: Temperatures averaged 5 to 10° above normal northwest and southeast, 10 to 15° above normal elsewhere. Rainfall statewide with averages over 1.00 in. northeast, east central, south central, and over 2.00 in. southeast.

Topsoil moisture supplies short, subsoil moisture supplies short to adequate. Wheat fair condition; 70% planted, 90% 1978, 85% normal. Corn 90% harvested, 85% 1978, 75% normal. Sorghum good condition with 35% harvested, 25% 1978, 10% normal. Soybeans rated good to fair with 35% harvested, 20% 1978 and normal. Peanut harvest hampered by dry soils, but harvest advanced to 50%, 35% 1978 and normal. Cotton rated good to fair with 5% harvested 1979 and normal, 10% 1978. Native pastures good to fair condition. Livestock good condition. Fieldwork: 5.7 days suitable.

OREGON: Temperatures 2 to 9° above normal. Dry spell ended as series of storms dropped 1.00 to 3.00 in. west, and 0.50 to over 1.00 in. east.

Soil moisture supplies mostly adequate west, mostly short east. Winter wheat 70% planted, 45% emerged. Corn harvest continuing. Spraying started on grass fields. Most haying complete. Few apples to be harvested; post harvest orchard activities underway. Onion harvest over; potatoes continue. Livestock condition fair to good. Cattle moving from summer ranges; calves lighter than average. Range and pasture conditions poor to good, mostly fair. Recent rains should revive pastures and fall ranges.

PENNSYLVANIA: Mostly sunny and dry with warming trend through week. Temperatures averaged 4 to 8° above normal and 12 to 14° above previous week. Warmest since end of September. Extremes 24 and 86°. Light showers 17th brought 0.25 in. or less rainfall.

Fieldwork: 4 days suitable. Soil moisture adequate to surplus. Activities: Harvest corn, soybeans, potatoes, fruits and vegetables and silo filling; seeding small grains. Corn 18% dented, 68% mature, 14% harvested; last year 33%, normal 29%. Potatoes 88% dug. Soybeans 10% harvested. Fall plowing 90%. Wheat sown 85%. Hay quality mostly poor to fair. Feed from pastures average to above.

PUERTO RICO: Island average rainfall 0.82 in. or 0.97 in. below normal. Temperatures averaged about 81° on coasts and 76° interior. Extremes: 94 and 60°.

SOUTH CAROLINA: Below normal temperatures with scattered frost, then well above normal. Monday 32°. Lows 32° central, northwest on 15th. Practically rainless, some light scattered showers.

Soil moisture adequate. Fieldwork: 6 days available. Corn 95% harvested, 91% average. Cotton open bolls 98%, harvested 46%, 71% year ago, 44% average; crop condition fair, lint excellent. Soybeans fair to good; 85% leaves turning, 95% last year; shedding leaves 58%, 81% last year; mature 27%, 32% year ago, 28% average; 3% harvested, 13% last year, 6% average. Peanuts 64% harvested, 81% last year. Fall snap beans poor to fair condition; 43% harvested. Cucumbers fair condition; 32% harvested. Wheat condition fair to good; 14% planted, 22% last year, 20% average.

SOUTH DAKOTA: Average temperatures ranged 8° above to 2° below normal. Mild temperatures, but cooler on 20th and 21st. Extremes: 83 and 17°.

Soybean harvest well advanced, other harvest gaining. Farm activities: Moving cattle and fall plowing. Topsoil moisture adequate southeast corner, critical parts of south central, central, extreme north central, short elsewhere. Transportation and storage problems persist. Greenbugs and aphids causing some damage to winter wheat; spraying continued. Fieldwork: 6 days suitable. Winter wheat seedings poor condition; rye fair condition. Farm fuel supplies adequate. Corn 37% harvested, 1978 52%, average 52%. Soybeans 91% harvested, 1978 78%, average 75%. Sunflowers 52% harvested, 1978 57%. Grain sorghum 58% harvested, 1978 51%, average 64%. Alfalfa seed 88% harvested, 1978 80%. Winter wheat 100% emerged. Rye 100% emerged.

TENNESSEE: Fair weather prevailed. Temperatures 10° above normal west, 2° above normal east. Showers 17th. Amounts 0.10 in. west, 0.50 in.

east.

Soil moisture adequate. Fieldwork: 5.5 days suitable. Corn harvested 53%, 1978 66%, average 50%. Cotton open bolls 66%, 1978 95%, average 80%; harvested 13%, 1978 69%, average 38%. Soybeans mature 64%, 1978 73%, average 66%; harvested 20%, 1978 32%, average 20%. Burley tobacco stripped 31%, 1978 26%, average 36%. Fall plowing completed 72%, 1978 70%, average 76%. Wheat seeded 55%, 1978 63%, average 60%. Oats seeded 79%, 1978 79%, average 81%. Barley seeded 82%, 1978 81%, average 81%. Pastures and cattle good condition. Fuel supplies adequate.

TEXAS: Temperatures 2° above normal East Texas; 7 to 15° above normal elsewhere. Precipitation much below normal statewide except North Central Texas where precipitation slightly below normal.

Unseasonably hot temperatures, dry conditions prevailed although spotted showers brought relief portions North Central, East Texas. Cotton harvest increased Southern High Plains; soybean, sunflower harvest accelerated statewide; sugarbeet harvest gained momentum High Plains; corn harvest High Plains winding down; dry conditions hastened maturity Panhandle sorghum crop. Wheat producers fearful dryland crop will not emerge until moisture received. Over two-thirds Southern High Plains cotton open where 10% harvested. Trans Pecos producers harvested first American Pima. Dry conditions hastened sorghum maturity, remainder ready for harvest. Corn harvest winding down. Soybean harvest gained momentum; 67% High Plains crop harvested, harvest getting underway Gulf Coast. Second rice cutting gained momentum along Coast. Both wheat, oats seedlings continue to lag. Army worms increasing earlier emerged oat fields East Texas, Blacklands. Cotton open bolls 79%; harvested 24%, 28% 1978, 28% average. Sorghum mature 93%, harvested 82%, 84% 1978, 82% average. Wheat planted 76%, 86% 1978, 82% average; emerged 48%. Corn harvested 91%, 95% 1978, 88% average. Peanuts harvested 77%, 61% 1978, 65% average. Soybeans harvested 32% 32% 1978, 34% average. Sugarbeets harvested 19%, 28% 1978, 28% average. Pecans harvested 4%, 5% 1978, 6% average. Sunflowers harvested 71%, 55% 1978, 65% average. Flax planted 8%, 19% 1978, 5% average. Pats planted 67%, 82% 1978, 77% average.

Lower Rio Grande Valley fall vegetables making normal progress. Harvest cucumbers, squash, peppers, continued. Planting carrots, onions, lettuce underway. Harvest early oranges, grapefruit continued to increase. Coastal Bend, land preparation for spring crops underway. Harvest fall cucumbers expected to begin 2 to 3 weeks. San Antonio-Winter Garden fall vegetables progressing well in response to irrigation. Carrots growing well. Onion sets looking good. Cabbage made good growth. Cucumbers, squash harvested good volume. East Texas sweetpotato harvest continued. Fall vegetables need moisture. North Texas isolated areas benefitted from scattered showers. Most harvest slowed except for collards, spinach, turnips, beets, parsley. Trans Pecos harvest peppers, tomatoes, pumpkins, acorn squash continued at El Paso. High Plains lettuce harvest full swing around Hereford. Peppers and tomatoes still available. Pecans continue to split shucks most areas. With windy days, nuts continue to fall. Harvesting volume gradually increasing. Occurrence of scab common.

Moisture stressed ranges, pastures received some relief from scattered showers North Texas; elsewhere, forage growth continued to deteriorate from hot, dry weather. Some supplemental feeding necessary various locations. Prospects small grain grazing dim except for irrigated fields.

Livestock good to excellent condition, however, some thinning of herds necessary western part State. Fall lambing underway Edwards Plateau.

UTAH: Series of storms latter part of period brought moderate to heavy precipitation and cooling trend. First frost of season many localities. Average temperatures ranging between 1° above normal and 8° above. Storms improved moisture content upper levels of soil appreciably northwest.

Late season harvest rushed to go deer hunting. Harvest approached completion. Winter wheat continued being sown. Fieldwork: 6 days suitable. Most livestock moved to fall and winter range.

VIRGINIA: Unseasonably cool first of period, warming trend during week, unseasonably warm end of period. Temperatures dropped below freezing inland sections 15th. High temperatures in 80's weekend. Average temperature 61° or slightly above normal. Extremes: 21° to upper 80's. Few isolated showers, average less than 0.10 in.

Open weather speeded fall fieldwork. Topsoil moisture adequate to surplus. Fieldwork: 3.6 days suitable. Small grain seeding: Wheat 15%, 30% 1978, 40% usual; barley 30%, 56% 1978, 65% average; winter oats 45%, 62% 1978, 71% usual. Corn picked 60%, 65% 1978, 61% average; Tidewater, southeast progress 90%, 88% 1978. Soybeans combined 5%, 12% 1978, 10% usual; Tidewater, southeast progress 5%, 13% 1978. Some problems fallen corn, soybeans in areas early heavy snow October 10th. Sorghum grain combined 5%, 15% 1978. Peanuts 75% dug, 93% 1978, 83% usual; 36% combined, 78% 1978, 48% average. Flue-cured tobacco markets active. Sweetpotatoes, snap beans, cucumbers harvested on Eastern Shore. Apple picking continued. Pastures good to excellent.

WASHINGTON: West: Precipitation averaged above normal.

Vegetable harvest continued on celery, cabbage, cauliflower, carrots, potatoes, sweet corn, pumpkins. Fall pastures excellent. Pine Christmas tree harvest underway. Other farm activities: Seeding for wheat, planting cover crops, pruning raspberry fields.

East: Temperatures averaged 2° above normal. Precipitation 0.40 to 0.80 in. above normal.

Potato, sweet corn, Red Delicious apple harvests near completion. Winesap, Rome apple picking underway. Grain crop conditions below average. Wheat planted 90%, last year 87%.

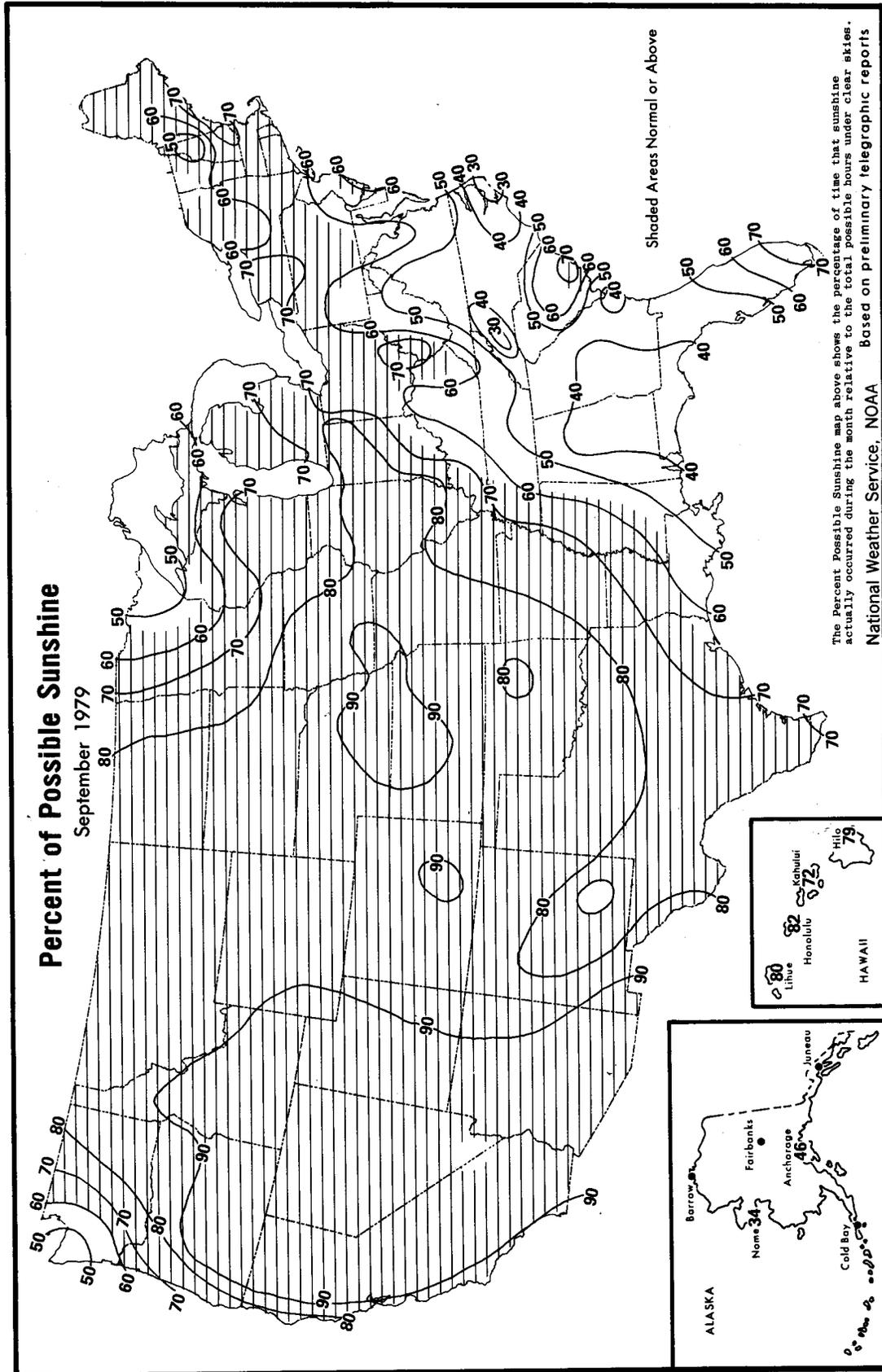
WEST VIRGINIA: Temperatures above normal, high 84°, low 18°. Precipitation much below normal.

Fieldwork: 2.9 days suitable. Soil moisture surplus to adequate. Main farm activities: Harvesting corn for grain, chopping silage, seeding small grains, haying, tending livestock. Harvesting: Corn for grain 42%; 3d hay 67%, 88% average, 84% 1978; potatoes 91%, 96% average, 93% 1978. Seeding progress: Wheat 66%, 62% average, 60% 1978; barley 59%, 70% average, 55% 1978. Pasture condition good. Hay crop good to excellent. Dry weather very favorable for cutting and curing hay, seeding and chopping corn. Fuel supplies adequate to tight.

WYOMING: Temperatures averaged 3 to 8° above normal. Precipitation generally below normal except parts of northwest and north.

Topsoil moisture short. Winter wheat 96% emerged, mostly good condition. Acreage harvested: Potatoes 98%; dry beans 98%; sugarbeets 70%; corn for grain 35%. Livestock sold or delivered: Yearlings 60%; calves 49%; lambs 71%.

(continued on page 17)



International Weather and Crop Summary

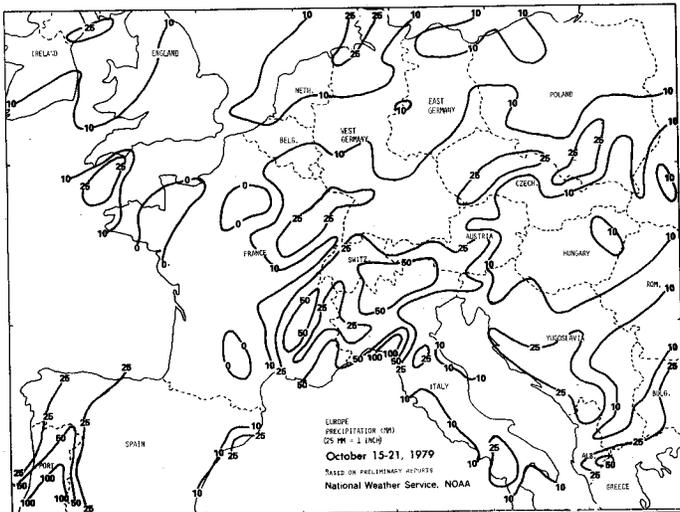
October 15 - 21

HIGHLIGHTS:

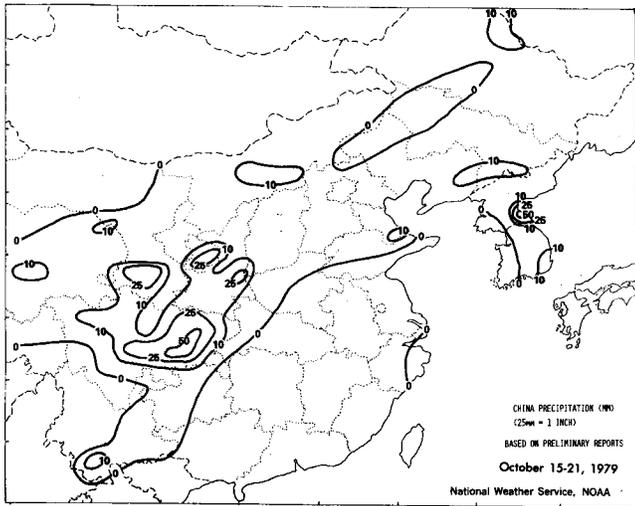
- USSR. Winter grains sown...some light rain in previously dry areas.
- EUROPE. Harvesting maize in the north*...generally favorable weather. Sowing winter grains...continued heavy rains in some Mediterranean areas.
- CHINA. Beginning late rice harvest*...good harvest weather. Sowing winter grains*...adequate irrigation water.
- INDIA. Wheat sowing season*...dry weather persists.
- AUSTRALIA. Wheat harvest near in Queensland*...some rainfall; too late.
- SOUTH AFRICA. Planting maize*...first spring rains.
- ARGENTINA. Wheat heading in the south*...good soil moisture.
- BRAZIL. Planting soybeans in Parana...good soil moisture.

*Based on normal crop calendar information.

USSR. Winter grain germination prospects improved this week in the Ukraine as precipitation activity picked up. Above-normal totals fell in the adequately-moisture central portion. Amounts in the southwest remained below normal, but marked an increase over last week, probably allowing renewal of germination as temperatures rose during the week. Eastern portions of the winter grain belt saw a variable precipitation pattern. Only light rain fell over a large portion of the lower Volga Valley and the Don River for a second consecutive week, but above-normal totals improved germination conditions over parts of the North Caucasus.

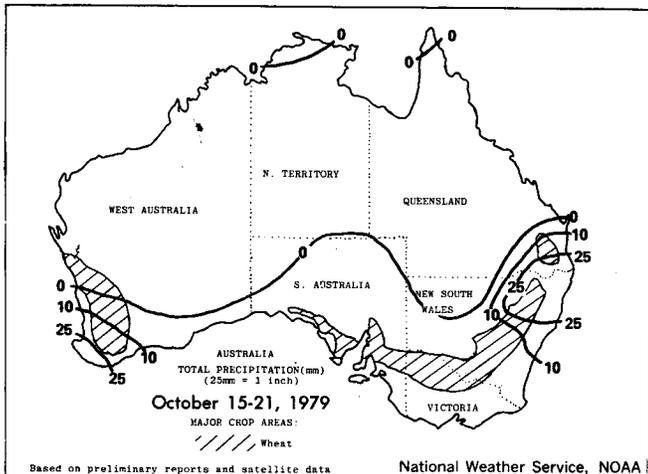
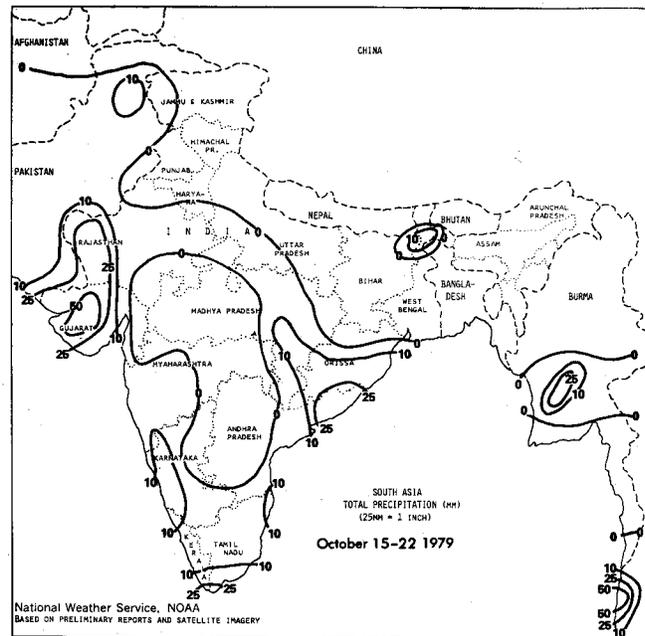


EUROPE. Heavy rainfall persisted into a third consecutive wet week in northern Italy, southeastern France, and eastern Portugal. These conditions have not been conducive to winter grain sowing activities or successful grain seedling development, but in these more-mild climates, adequate time remains for successful reseeding of the crop. Precipitation returned to eastern Europe after two relatively dry weeks, producing good coverage with moderate totals, but leaving dry pockets scattered throughout the region.

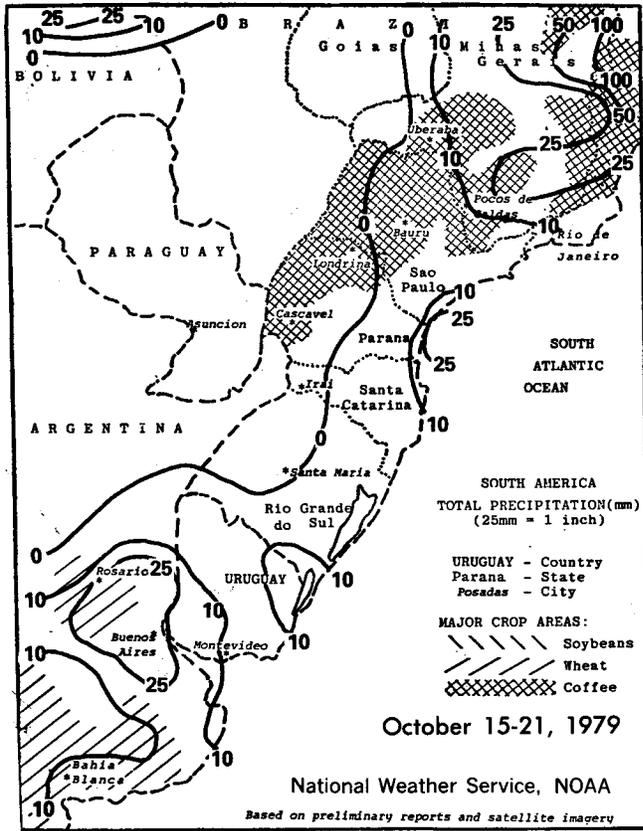


CHINA. A third consecutive week of near-rainless weather over the southeastern third of the country has been ideal for harvest activities. Newly-sown wheat fields in the North China Plain have quite adequate irrigation water supplies, and grain areas in the hills to the west have been receiving near-normal precipitation in recent weeks. Conditions have been a little wet for harvest activities in the Sichuan Basin, but no substantial impacts are expected.

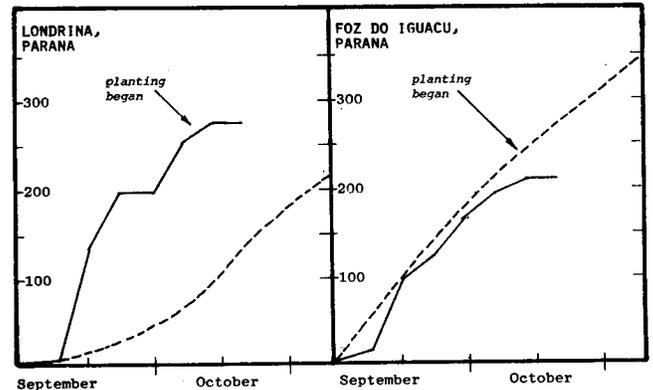
INDIA. Substantial rainfall was restricted to Orissa, Gujarat, and coastal areas of peninsular India this week. Only in Gujarat did they exceed normal, but crops there were probably too mature to benefit. This early retreat of the monsoon from southeastern growing areas may have had a slight impact on yields of later-harvested crops, but no serious shortfalls are expected there.



AUSTRALIA. Substantial rainfall in grain areas of northeastern New South Wales may have benefited the crop there, but the Queensland crop was too mature for the rain to have helped it. Only light totals fell in crop areas of South Australia, Victoria, and New South Wales as the crop neared maturity. Some moderate amounts in southern portions of West Australia's grain area may have helped late grain filling.

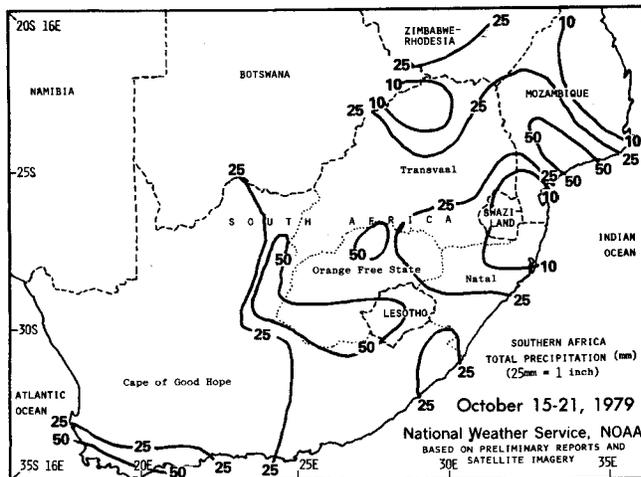
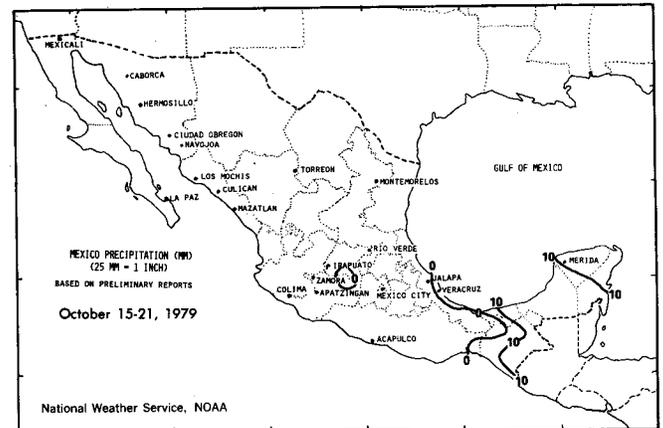


SOUTH AMERICA. Continued light rain in southern Buenos Aires Province maintained good growing conditions for wheat in the critical, heading stage of development. Heavier totals to the north in Santa Fe probably had little impact on winter grains nearing maturity, but did help maintain soil moisture for the approaching spring planting season. Virtually no moisture fell in Brazil soybean areas this week, but soil moisture should remain adequate from previous weeks' rains, which had been near normal or above since the first of September. Planting has begun in Parana.

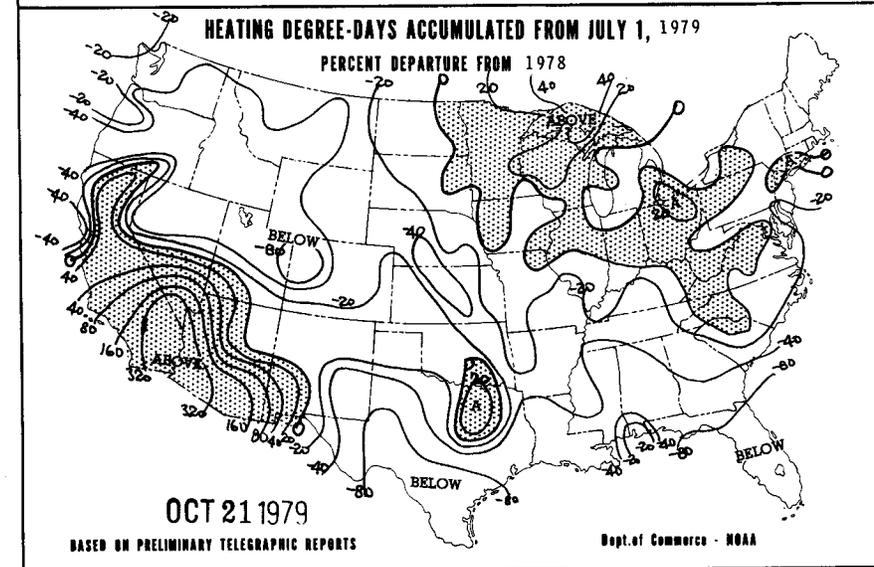
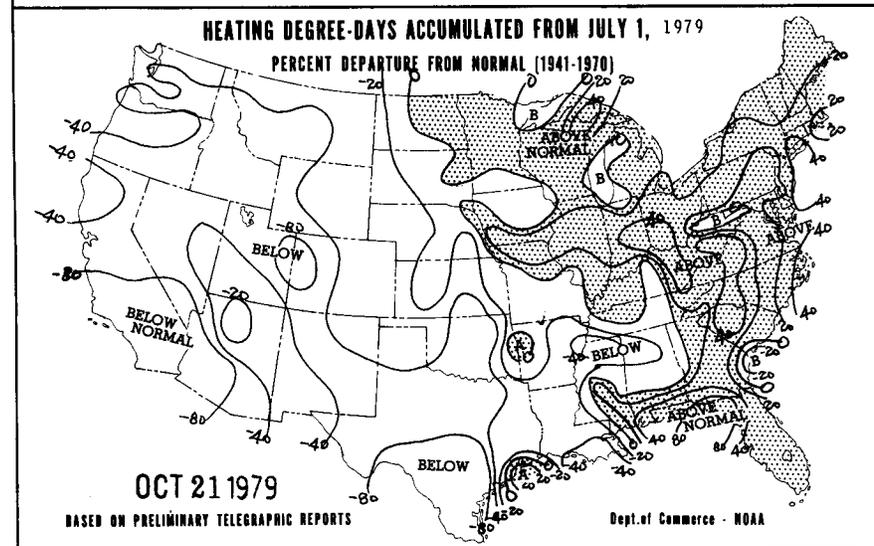
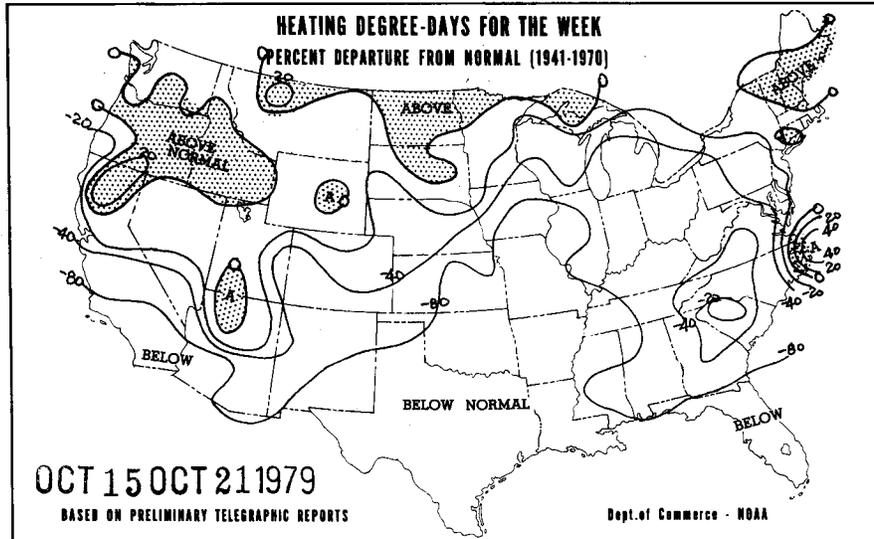


Total rainfall (mm) for two stations in the southern Brazilian soybean belt. Actual rainfall (—) Normal rainfall (---)

MEXICO. Sunny, warm, dry weather for the fourth consecutive week favored harvesting, fieldwork, and crop growth where soil moisture was adequate. Immature crops in nonirrigated districts were under moisture stress. Rainfall was again limited to the southeastern corner of the nation. Culiacan's afternoon temperatures averaged 34°C with a relative humidity of 45 percent, but overnight lows showed a seasonal decline to 19°C with a relative humidity of 88 percent.



SOUTH AFRICA. The first week of spring rains brought totals in excess of 20 mm to nearly all the Maize Triangle, with a large portion receiving more than 40 mm. The rains arrived late, but should allow maize planting to begin now.



HEATING DEGREE DAYS (BASE 65°) FOR WEEK ENDING OCT. 21, 1979.

STATES AND STATIONS	WEEKLY		SEASONAL ACCUMULATION +		STATES AND STATIONS	WEEKLY		SEASONAL ACCUMULATION +		STATES AND STATIONS	WEEKLY		SEASONAL ACCUMULATION +		
	TOTAL	DEPARTURE*	TOTAL	DEPARTURE*		TOTAL	DEPARTURE*	TOTAL	DEPARTURE*		TOTAL	DEPARTURE*	TOTAL	DEPARTURE*	
ALA. BIRMINGHAM.....	13	1	35	1	MAINE CARIBOU.....	12	1	877	164	YOUNGSTOWN.....	40	51	480	108	
ARIZ. FLAGSTAFF.....	13	1	676	3	MD. BALTIMORE.....	19	19	199	37	OKLA. OKLAHOMA CITY	0	0	0	0	
ARIZ. PHOENIX.....	5	0	9	0	MASS. BOSTON.....	80	9	341	84	OREG. ASTORIA.....	9	14	453	149	
ARK. FORT SMITH.....	1	1	71	1	MICH. ALPENA.....	11	11	70	81	OREG. BURNS.....	14	14	383	114	
CALIF. BAKERSFIELD	5	1	61	1	MICH. FLINT.....	11	11	44	11	OREG. MEDFORD.....	14	14	288	117	
COLO. DENVER.....	71	25	242	112	MICH. GRAND RAPIDS.....	11	11	44	11	PA. ALLENTOWN.....	60	60	333	104	
CONN. BRIDGEPORT.....	68	13	318	130	MICH. HOUGHTON LAKE.....	11	11	44	11	PA. ERIE.....	14	14	333	104	
DEL. WILMINGTON.....	45	16	198	29	MICH. LANSING.....	11	11	44	11	PA. HARRISBURG.....	14	14	333	104	
D.C. WASHINGTON.....	23	22	133	21	MICH. MARQUETTE.....	11	11	44	11	PA. PHILADELPHIA.....	14	14	333	104	
FLA. PALM BEACH.....	11	21	75	0	MICH. MUSKEGON.....	11	11	44	11	PA. PITTSBURGH.....	14	14	333	104	
GA. ATLANTA.....	11	21	75	0	MICH. S. STE. MARIE.....	11	11	44	11	PA. SCRANTON.....	14	14	333	104	
IDAHO. BOISE.....	101	15	182	191	MINN. DULUTH.....	11	11	44	11	R. I. PROVIDENCE.....	73	11	353	46	
ILL. CHICAGO.....	7	30	98	13	MINN. INTERNATL FALLS.....	11	11	44	11	S. C. CHARLESTON.....	22	22	24	20	
IND. EVANSVILLE.....	19	37	178	21	MISS. JACKSON.....	7	7	14	14	S. DAK. ABERDEEN.....	11	11	44	26	
IOWA. BURLINGTON.....	10	65	321	71	MO. COLUMBIA.....	10	10	19	20	TENN. CHATTANOOGA.....	22	22	23	23	
KANS. CONCORDIA.....	16	47	139	78	MO. KANSAS CITY.....	10	10	19	20	TENN. KNOXVILLE.....	11	11	44	49	
LA. BATON ROUGE.....	1	12	14	9	MO. ST. LOUIS.....	10	10	19	20	TEXAS. ABILENE.....	1	1	9	1	
LA. NEW ORLEANS.....	1	15	21	9	MO. SPRINGFIELD.....	10	10	19	20	TEXAS. AUSTIN.....	1	1	9	1	
LA. SHREVEPORT.....	1	15	21	9	MONT. BILLINGS.....	11	11	44	11	TEXAS. BEAUMONT.....	1	1	9	1	
					MONT. GLASGOW.....	11	11	44	11	TEXAS. BROWNSVILLE.....	1	1	9	1	
					MONT. GREAT FALLS.....	11	11	44	11	TEXAS. CORPUS CHRISTI.....	1	1	9	1	
					MONT. HELENA.....	11	11	44	11	TEXAS. DEL RIO.....	1	1	9	1	
					MONT. MISSOULA.....	11	11	44	11	TEXAS. FORT WORTH.....	1	1	9	1	
					NEBR. GRAND ISLAND.....	5	5	25	38	TEXAS. HOUSTON.....	1	1	9	1	
					NEBR. LINCOLN.....	5	5	25	38	TEXAS. LUBBOCK.....	1	1	9	1	
					NEBR. NORFOLK.....	5	5	25	38	TEXAS. MIDLAND.....	1	1	9	1	
					NEBR. NORTH PLATTE.....	5	5	25	38	TEXAS. SAN ANGELO.....	1	1	9	1	
					NEBR. OMAHA.....	5	5	25	38	TEXAS. SAN ANTONIO.....	1	1	9	1	
					NEBR. VALENTINE.....	5	5	25	38	TEXAS. VICTORIA.....	1	1	9	1	
					NEV. ELY.....	12	12	48	249	UTAH. SALT LAKE CITY	93	2	119	168	
					NEV. LAS VEGAS.....	9	9	36	307	VT. BURLINGTON.....	126	14	639	75	
					NEV. RENO.....	9	9	36	307	VT. LYNCHBURG.....	42	14	249	90	
					N.H. CONCORD.....	128	14	645	108	VA. NORFOLK.....	20	20	134	27	
					N.J. ATLANTIC CITY.....	53	11	301	122	VA. RICHMOND.....	20	20	134	27	
					N.J. TRENTON.....	45	11	238	62	VA. ROANOKE.....	44	12	260	103	
					N.MEX. ALBUQUERQUE	22	22	55	55	WASH. QUILLAYUTE.....	109	109	656	254	
					N.Y. ALBANY.....	89	11	504	83	WASH. SEATTLE-TACOMA.....	109	109	656	254	
					N.Y. BINGHAMTON.....	89	11	504	83	WASH. SPOKANE.....	109	109	656	254	
					N.Y. BUFFALO.....	89	11	504	83	W.VA. BECKLEY.....	46	44	471	103	
					N.Y. NEW YORK.....	89	11	504	83	W.VA. CHARLESTON.....	46	44	471	103	
					N.Y. ROCHESTER.....	89	11	504	83	W.VA. HUNTINGTON.....	46	44	471	103	
					N.Y. SYRACUSE.....	89	11	504	83	W.VA. PARKERSBURG.....	46	44	471	103	
					N.C. ASHEVILLE.....	45	15	637	2	WIS. GREEN BAY.....	75	39	581	27	
					N.C. CHARLOTTE.....	45	15	637	2	WIS. LACROSSE.....	75	39	581	27	
					N.C. GREENSBORO.....	45	15	637	2	WIS. MADISON.....	75	39	581	27	
					N.C. HATTERAS.....	45	15	637	2	WYO. CASPER.....	126	126	428	147	
					N.C. RALEIGH.....	45	15	637	2	WYO. CHEYENNE.....	126	126	428	147	
					N.C. WILMINGTON.....	45	15	637	2	WYO. LARAMIE.....	126	126	428	147	
					N.DAK. BISMARCK.....	45	15	637	2	WYO. SHERIDAN.....	126	126	428	147	
					OHIO AKRON-CANTON.....	49	38	452	118						
					OHIO CINCINNATI.....	49	38	452	118						
					OHIO CLEVELAND.....	49	38	452	118						
					OHIO COLUMBUS.....	49	38	452	118						
					OHIO DAYTON.....	49	38	452	118						
					OHIO TOLEDO.....	49	38	452	118						

BASED ON 1941-70 NORMALS. + ACCUMULATION FROM JULY 1, 1979.

(continued from page 11)

WISCONSIN: Mostly cloudy, mild. Temperatures 70° above normal. Highs reached unseasonably warm 70's and a few 80's 20th and 21st. Lows in 20's and 30's beginning week but 50's and 60's weekend. Scattered showers and thunderstorms brought 1.00 to 2.00 in. except east central. Cold front late 21st dropped temperatures considerably and triggered substantial showers.

Fieldwork: 7 days suitable. Silo filling nearing completion but grain corn harvest slow because of high moisture content. Silo filling

85% done, 1978 90%, normal 99%. Corn for grain 10% harvested, 1978 25%, normal 30%. Moisture of grain corn in high 20's or 30's. High moisture ear and shell corn going into silos. Soybeans 30% combined, 1978 20%, normal 33%; moisture still high on later varieties. Fall plowing 20% done, 1978 20%, normal 27%. Recent rains will help plowing and growth of winter wheat. Fall pastures normal. Some late vegetables still being harvested. Cranberry harvest in full swing. Picking of later apple varieties continuing. Topsoil moisture short to adequate.

HARVESTING PROGRESS
FOR WEEK ENDING OCT 21, 1979

SOYBEANS			
	1979	1978	AVG.
ALA	32	41	22
ARK	23	29	34
GA	16	23	15
ILL	89	81	80
IND	55	55	70
IOWA	96	71	82
KANS	75	60	30
KY	28	47	40
LA	56	56	53
MICH	16	31	49
MINN	83	87	89
MISS	35	41	32
MO	70	45	46
NEBR	95	85	75
N C	10	12	8
OHIO	45	65	70
S C	3	13	6
TENN	20	32	20
18 STATES	59	56	56

THESE 18 STATES PRODUCED 95% OF THE 1978 SOYBEAN CROP.

CORN			
	1979	1978	AVG.
COLO	27	50	46
GA	90	90	75
ILL	35	59	45
IND	25	35	35
IOWA	27	57	50
KANS	60	80	55
KY	50	65	56
MICH	10	15	22
MINN	11	61	64
MO	49	51	54
NEBR	35	55	45
N C	83	90	82
OHIO	25	40	35
PA	14	33	29
S DAK	37	52	52
VA	60	65	61
WIS	10	25	30
17 STATES	31	53	47

THESE 17 STATES PRODUCED 93% OF THE 1978 CORN CROP.

COTTON			
	1979	1978	AVG.
ALA	22	61	25
ARIZ	38	30	21
ARK	42	57	49
CALIF	29	20	NA
GA	33	48	35
LA	35	72	46
MISS	28	76	44
MO	46	65	43
N MEX	1	5	12
N C	20	32	25
OKLA	5	10	5
S C	46	71	44
TENN	13	69	38
TEX	24	28	28
14 STATES	26	35	30

THESE 14 STATES PRODUCED 99% OF THE 1978 COTTON CROP.

GRAIN SORGHUM			
	1979	1978	AVG.
COLO	89	32	34
KANS	58	68	40
MO	80	53	56
NEBR	60	70	65
OKLA	38	25	10
S DAK	58	51	64
TEX	82	84	82
7 STATES	68	68	82

THESE 7 STATES PRODUCED 92% OF THE 1978 GRAIN SORGHUM CROP.

RICE			
	1979	1978	AVG.
ARK	87	98	90
CALIF	68	NA	NA
LA	108	100	100
MISS	85	88	87
TEX	102	100	100
5 STATES	86	NA	NA
EXCL CALIF	99	96	91

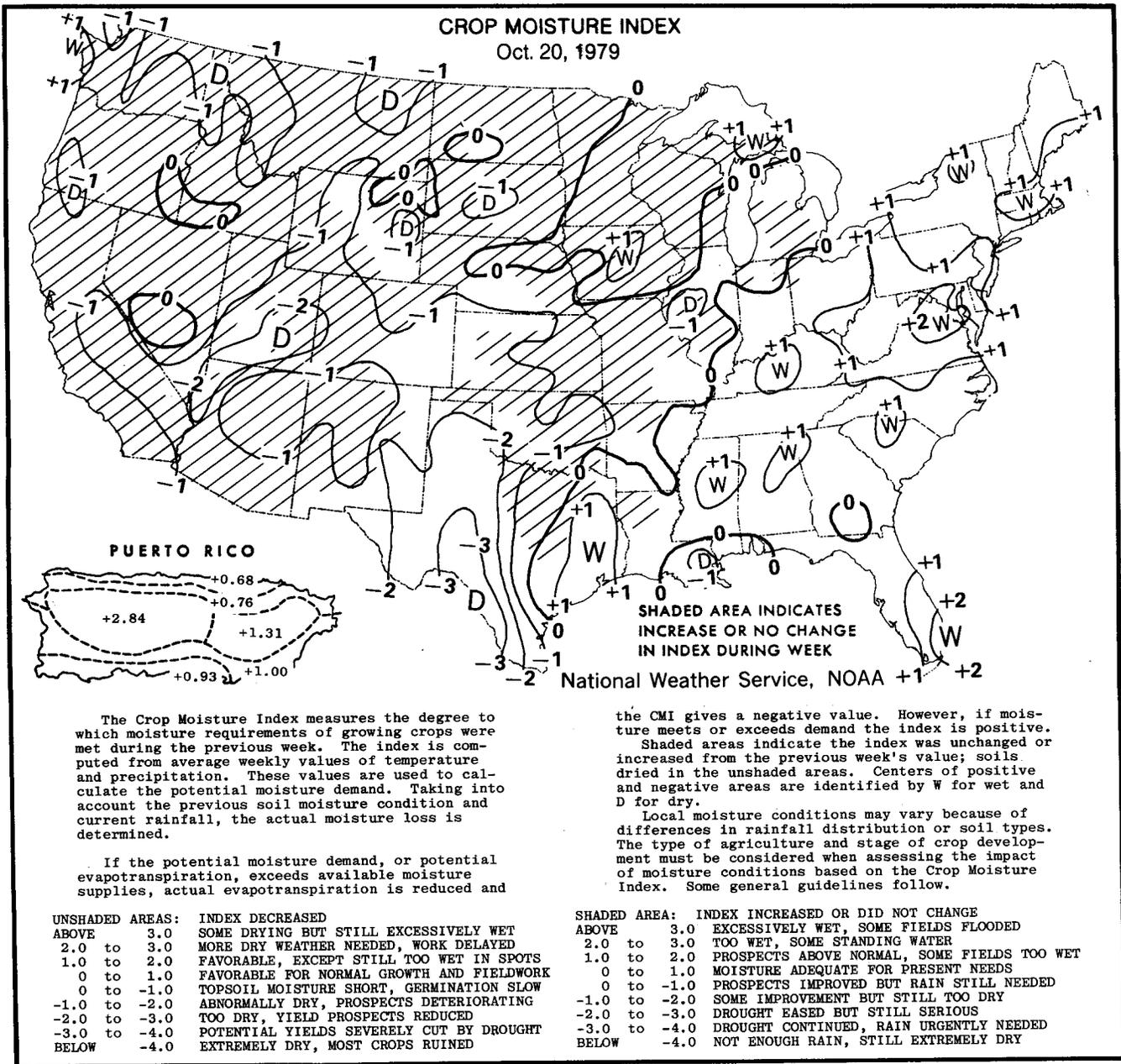
THESE 5 STATES PRODUCED 99% OF THE 1978 RICE CROP.

PLANTING PROGRESS
FOR WEEK ENDING OCT 21, 1979

WINTER WHEAT			
	1979	1978	AVG.
CALIF	1	NA	NA
COLO	100	100	100
IDAHO	95	95	90
ILL	80	76	74
IND	65	70	75
KANS	85	95	85
MO	62	60	NA
MONT	95	100	100
NEBR	100	100	100
OHIO	55	80	80
OKLA	70	90	85
OREG	70	NA	NA
S DAK	100	100	100
TEX	76	86	82
WASH	93	87	NA
15 STATES	81	91	88

THESE 15 STATES PRODUCED 90% OF THE 1979 WINTER WHEAT CROP.

NA NOT AVAILABLE



EXCESSIVE CROP MOISTURE IS STILL EVIDENT FROM SOUTHEAST TEXAS THROUGH THE OHIO VALLEY, THE MID-ATLANTIC STATES, AND NEW ENGLAND'S COASTAL AREA. DRY AREAS ARE PERSISTING FROM SOUTHWEST TEXAS TO CENTRAL ILLINOIS, INCLUDING THE IMPORTANT WINTER WHEAT AREAS IN TEXAS, OKLAHOMA AND KANSAS WHERE NEWLY SOWN WHEAT IS AWAITING MOISTURE FOR GERMINATION AND INITIAL GROWTH. ELSEWHERE, A SHORTAGE OF CROP MOISTURE IS WORSENING IN THE PACIFIC NORTHWEST AND THE NORTHERN PLAINS.

Agricultural Weather Facility
USDA South Bldg., Room 1248
Washington, D.C. 20250

IMMEDIATE - U. S. Weather Report

This Report Will be Treated in All Respects as Letter Mail

FIRST CLASS MAIL

POSTAGE AND FEES PAID
U.S. DEPARTMENT OF COMMERCE

COM 210



CONTENTS

	PAGE
NATIONAL WEATHER SUMMARY	1
NATIONAL AGRICULTURAL SUMMARY	3
WEATHER DATA FOR SELECTED CITIES	4
STATE SUMMARIES OF WEATHER AND AGRICULTURE	7
PERCENT OF POSSIBLE SUNSHINE	12
INTERNATIONAL WEATHER AND CROP SUMMARY	13
HEATING DEGREE DAYS MAPS	16
HEATING DEGREE DAYS TABLE	17
CROP DEVELOPMENT AND HARVEST PROGRESS	18
CROP MOISTURE INDEX	19

Publication of the Weekly Weather and Crop Bulletin began in 1872 as the Weekly Weather Chronicle. It is issued under general authority of the Act of January 12, 1895 (44USC 213), 53d Congress, 3d Session. Contents of the Bulletin may be reprinted freely, with proper credit.

Standard copy for the Bulletin is prepared by Donald J. Haddock, Lyle Denny, and O. W. Byrd, Climate Analysis Center, National Weather Service,

National Oceanic and Atmospheric Administration; Harry DeLong and Jim Carlin, Economics, Statistics, and Cooperatives Service, U.S. Department of Agriculture.

Yearly subscription rate: \$13.00 domestic and \$18.00 foreign airmail. Order from the Agricultural Weather Facility, USDA South Building, Room 1248, Washington, D.C. 20250. Make checks payable to Department of Commerce, NOAA.