

WEEKLY WEATHER AND CROP BULLETIN

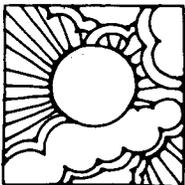
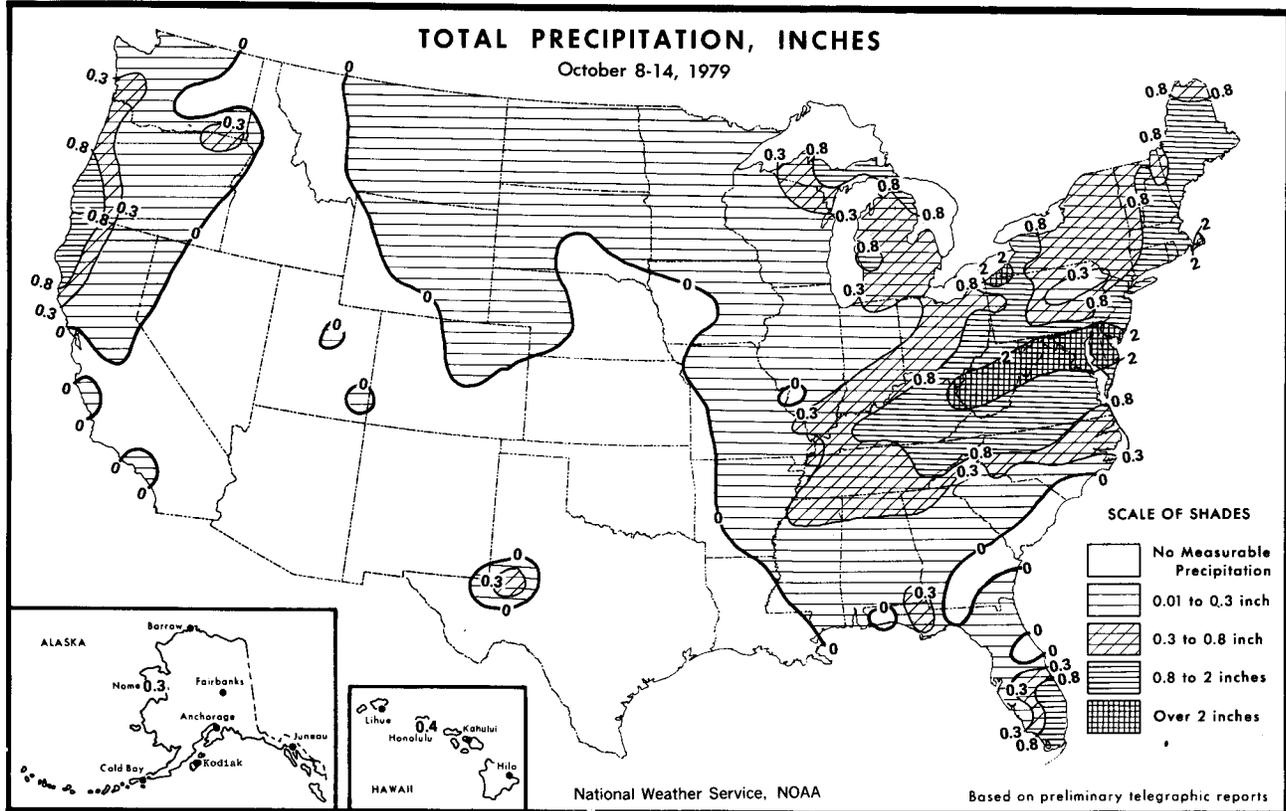
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National Weather Summary

October 8 - 14

HIGHLIGHTS: Much of the week's precipitation fell from Tennessee northward through the Great Lakes and northeastward through New England; the heaviest amounts covered the middle Atlantic States and New England's coast.

Elsewhere, heavy showers soaked southern Florida; light rain dampened the Pacific Northwest. The northern Plains and much of the Mississippi Valley recorded light accumulations.

A cold week spanned the country east of the Rockies; readings averaged 10 to 15 degrees colder than normal in the upper Mississippi Valley, Great Lakes region, the Appalachians, and New England.

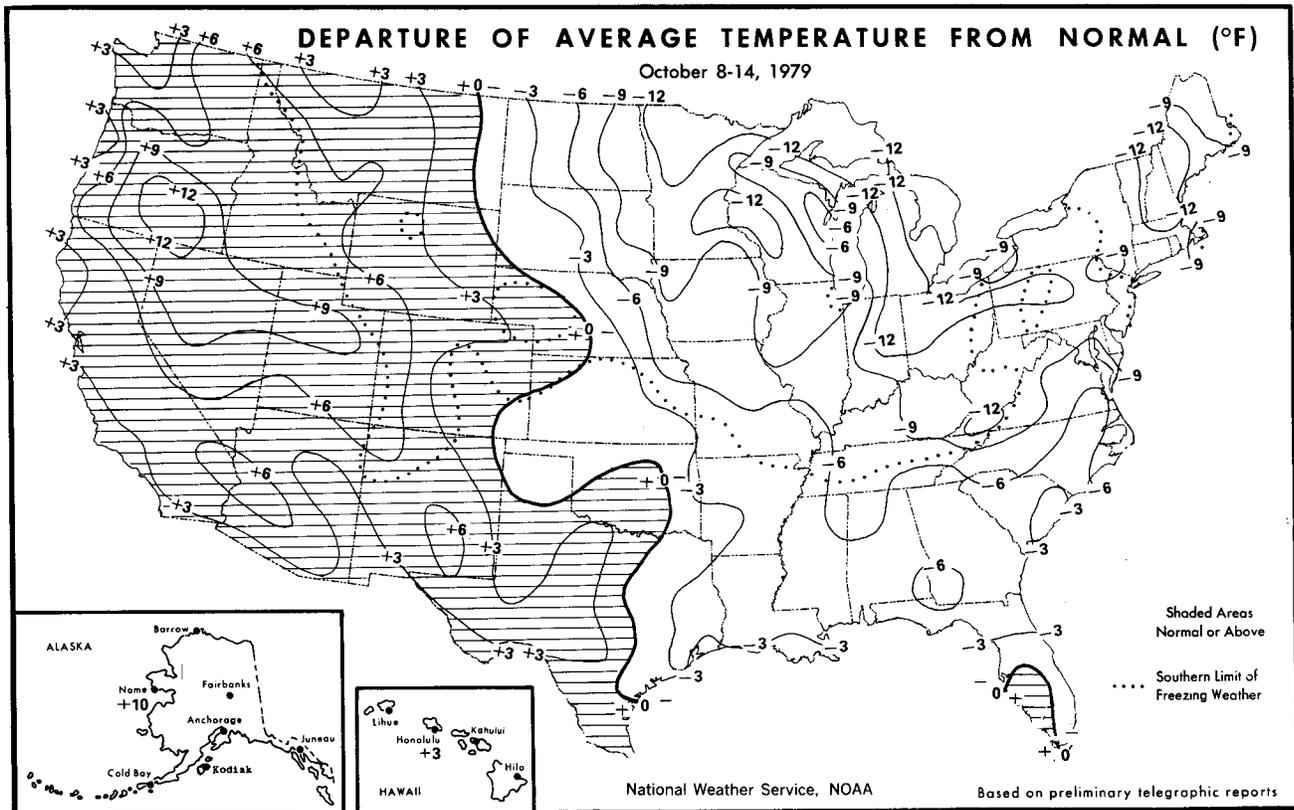
West of the Rockies, parts of the Plateau Region ranged 10 to 12 degrees above normal.

On Monday, moisture was fairly light throughout the country. Showers dotted parts of New England, the Great Lakes area, and the middle portions of the Ohio Valley and middle Atlantic States. The heaviest rainfall amounted to three-quarters inch at Quantico, northern Virginia. Some very light snow fell from the northern Rockies to the extreme west central Plains.

Temperatures continued cool in the Southeast and Great Lakes. In Florida, both Daytona Beach and Orlando notched record-tying readings of 57°. Sault Ste. Marie, on Michigan's Peninsula, noted a record-breaking 25°.

The record-breaking heat persisted in the Southwest, West Texas, and southern Plains. A sampling included Albuquerque's 89°, El Paso's 95°, Wichita's 95°, Oklahoma City's 94°, Dallas/Fort Worth's 96°, and 92° at Springfield, southern Missouri.

Showers were scattered over the upper half of the Atlantic Coast and the middle Ohio Valley on



Tuesday. Totals ranged from a half-inch to an inch. Snow fell in the upper Great Lakes and northern Mississippi Valley. Kansas City measured only 0.07 inch of rain---enough to end its longest dry spell at 32 days.

New warm temperature records showed New Orleans's 90°, and in Oregon, 81° at Portland, 89° at Medford, and 88° at Eugene.

On Wednesday, a freak snowstorm churned over West Virginia and up the Atlantic Coast from Virginia to New England. As much as a foot fell in West Virginia's mountains; several stations reported the earliest snowfall on record for this century.

Meantime, record cold temperatures hit widely separated areas. International Falls, northern Minnesota, noted 18°, while Midland and Abilene, below Texas's Panhandle, tallied 43° and 40°.

To the west, the unseasonable warmth continued. Nevada showed records in the eighties. Albuquerque's 86° established another record, and became the eighth new mark in 10 days this October.

Little rain or snow fell over the Nation on Thursday. Less than a quarter-inch of rain dampened the Great Lakes area. Worcester, central Massachusetts, awoke to 7 inches of snow on the ground---a reminder of the previous day's surprise storm.

Temperatures soared to record-breaking levels from Arizona to the southern Plains; nearly a dozen records were tied or broken including 87° at

Winslow, northern Arizona, El Paso's 96°, and Oklahoma City's 94°. Miami, Fla., also chipped in with a record 88°.

Light rain spanned an area from the Great Lakes to New England as well as covering a portion of the Tennessee Valley on Friday. Most totals reached only a half-inch. A couple of inches of snow whitened sections of upper Michigan.

The warm air continued to hover over New Mexico and Texas. Among the records were Albuquerque's record-equaling 87°, El Paso's 92°, and Dallas/Fort Worth's 97°.

Very cold air dipped into the northern half of the Plains and Mississippi Valley on Saturday.

Meantime, light showers dropped a third-inch of rain on West Virginia and parts of northern California. Rain became heavy over southern Florida, where Coral Gables gathered 1.8 inches and Fort Lauderdale an inch.

On Sunday, between 1 and 2 inches of rain fell over portions of California, while very light rain moistened the Pacific Northwest. The 0.01 inch of rain, however, was the first in Seattle in 34 days.

The Texas Coast and southern tip of Florida accumulated some rain; Miami Beach was soaked by 2.5 inches.

Meantime, the cold air moved southeastward carrying record-breaking readings on its way. New marks opened the record books at Indianapolis, 24°; Cincinnati, 27°; and Raleigh, N.C., 33°.



National Agricultural Summary

October 8 - 14

HIGHLIGHTS: Subnormal temperatures brought frosty weather into more areas of the Corn Belt. The low temperatures helped kill corn and soybean plants and aided in drying. Only the Northeast quadrant of the Nation received rainfall; most of this fell in the middle Atlantic States. Farmers had a full week available for fieldwork, except in the areas of rainfall from the Carolinas to New England. Winter wheat seeding advanced to 75%, slightly behind last year's 83% and the 82% average. Corn harvest reached 21%, continuing to lag 1978's 35% and the 32% average. Soybean harvest reached 43%, surpassing last year's 39% and the 41% average. Cotton picking slowly advanced to 14%, continuing to lag last year's 27% and the 24% average. Rice harvest stood at 79%, lagging recent years because of the late Delta harvest. Grain sorghum harvest advanced to the halfway mark, slightly behind last year's 56% and the 51% average. Fall plowing was on schedule, although some farmers in the Plains needed additional moisture to work the soil properly. Ranchers continued to move cattle from summer to fall grazing. Fuel supplies appeared to loosen slightly, although requirements for harvest operations increased. LP gas rated 6% tight and 91% adequate. Diesel scored 17% tight and 81% adequate. Gasoline stood at 13% tight and 86% adequate.

SMALL GRAINS: Winter wheat seeding advanced to the 75% mark, lagging last year by 8 points and the average by 7 points. Planting was close to schedule except in two areas. On the southern Plains, Oklahoma stood at 70% and Texas at 65%--both States 10 points below average. Dry soils held planting progress in check in this area. Planting was also late in the eastern Corn Belt; however, the delays were caused by wet soils and a slow corn harvest. Some Ohio wheat stands began turning yellow and showed some evidence of drowning-out.

CORN: Frost reached deeper into the Corn Belt, but maturity throughout the area ranged from a low of 80% in Michigan to 100% in many other States. In the eastern Corn Belt, harvest stood at 16%, short of last year's 27% and the 23% average. Wet fields in some States and high moisture content grain in others tended to slow harvest progress.

In the western Corn Belt, harvest progress advanced to 18%, half the progress of last year's 36% and the 35% average. Storage and transportation problems were evident in some parts of the region.

Rains continued to delay corn harvest in the Southeast, where farmers struggled to 74% completion, a 4-point advance for the week. This progress lagged last year's 81% but surpassed the 70% average.

SOYBEANS: Most soybeans in the north central States were mature and relatively safe from severe frost damage. In the eastern north central States, soybean harvest moved past the halfway mark and stood at 54%, 1 point less than last year and 2 points less than average.

Progress surged 29 points for the week and stood at 68% complete in the western north central States, far surpassing last year's 48% and the 53% average. Farmers were able to harvest at a fast pace because of the clear weather.

Light rains helped late soybeans in the Delta. Maturity ranged from a low of 25% in Tennessee to a high of 63% in Arkansas. Wet soils in Kentucky could produce above-normal harvest losses if fields do not dry soon. In the south central States, harvest stood at 15%, lagging last year's 22% and the 19% average.

Southeastern farmers were just getting started harvesting soybeans at 4%, half the progress shown last year and average.

COTTON: Cotton acreage showing open bolls ranged from 52% in Tennessee to 95% in South Carolina. Subnormal temperatures continued to slow crop development from Texas eastward. Growers in all areas continued to defoliate stands in preparation for picking. Harvest progress stood at 14%, lagging last year's 27% and the 24% average. All the larger cotton producing States lagged the progress of recent years; however, the Delta States lagged most in comparison with last year and average. Texas growers needed dry open weather to mature later cotton. Harvest was just getting started on the Low Plains.

OTHER CROPS: Grain sorghum harvest reached 50%, close to the 56% last year and the 51% average. Virtually all the crop was mature throughout the Great Plains. Harvest ranged from 7% in Colorado to 73% in Texas, with the other major States falling between 30 and 46%.

Rice harvest advanced to 79%. Most rice remaining for harvest was in California and the Delta. Progress in the Delta lagged last year by about 20 points.

FRUITS & NUTS: Apple picking continued in northern production areas as growers harvested Winesaps and Romes. The McIntosh and Delicious apple harvests wound down. California sun-dried raisins were boxed; the wine-grape harvest was almost complete; and the table-grape harvest continued. Pecans rated fair to good; harvest was getting started across the South. The Oregon filbert harvest was almost complete. The walnut harvest should start soon in California and Oregon.

Florida citrus groves benefited from drier weather. Harvests of new crop citrus began slowly and included mostly grapefruit and some Navels. Texas growers harvested and shipped some early oranges; fruit sized well and changed color. California growers harvested grapefruit, lemons, and oranges.

VEGETABLES: Northern growers, who were spared serious frost damage, continued to harvest cabbage, celery, carrots, cauliflower, and some lettuce.

Florida weather conditions were almost ideal in vegetable producing areas with warm days and mild nights. Growers harvested light volumes of a wide variety of crops. Southern Texas growers prepared and planted seedbeds, while further north, growers rapidly harvested crops in an effort to beat the first frost of the season. California growers harvested a wide variety of vegetables for fresh market, although some cauliflower was diverted to freezers. The processing-tomato harvest was about finished.

PASTURES & LIVESTOCK: Growers across the southern part of the Nation planted crops for winter grazing; dry soils in some areas slowed germination and growth. Texas rangeland declined rapidly because of dry conditions; stock water supplies were low, and some producers fed extra forage. California ranges were dry but provided adequate feed supplies. Winter rangeland was subnormal throughout many areas of the West.

Weather Data for the Week Ending Oct. 14, 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 . . .	74	48	84	39	59	- 6	.1	- .5	.1	10.7	238	82	45	0	0	1	0	
Mobile . . .	80	54	87	44	67	- 4	T	- .6	0	10.5	136	89	40	0	0	1	0	
Montgomery . . .	77	49	86	41	63	- 4	.1	- .4	0	5.1	94	85	39	0	0	1	0	
ALASKA. Anchorage . . .	51	39	55	29	45	8	.7	- .4	.4	2.7	90	92	74	0	1	5	0	
Barrow . . .	28	24	33	19	26	8	.1	- .1	.1	.3	50	74	61	0	7	3	0	
Fairbanks . . .	51	30	59	26	41	12	.1	- .1	.1	.5	38	78	52	0	5	2	0	
Kodiak . . .	52	43	56	35	48	6	4.1	- 2.8	2.2	7.8	90	91	82	0	0	6	2	
Nome . . .	47	35	51	28	41	10	.3	- .1	.1	3.9	130	89	73	0	1	2	0	
ARIZ. Flagstaff . . .	70	34	75	31	52	3	0	- .3	0	.1	4	61	19	0	2	0	0	
Phoenix . . .	96	66	100	64	81	7	0	- .1	0	.1	14	34	13	7	7	0	0	
Tucson . . .	92	60	96	56	76	4	0	- .1	0	0	0	34	12	5	0	0	0	
Winslow . . .	78	43	82	39	61	1	0	- .2	0	.1	9	-	-	0	0	0	0	
Yuma . . .	95	66	97	63	81	3	0	- .1	0	0	0	49	24	7	0	0	0	
ARK. Fort Smith . . .	78	44	91	35	61	- 4	0	- .8	0	.8	17	84	28	2	0	0	0	
Little Rock . . .	76	49	89	40	62	- 2	.1	- .6	.1	3.7	80	79	34	0	0	1	0	
CALIF. Bakersfield . . .	83	62	85	55	72	4	0	- .1	0	.4	200	74	37	0	0	0	0	
Eureka . . .	63	54	65	51	58	3	1.4	- .8	1.2	1.6	94	95	76	0	0	3	1	
Fresno . . .	83	57	88	53	70	4	0	- .1	0	0	0	73	31	0	0	0	0	
Los Angeles . . .	73	60	77	58	67	1	.1	- .1	.1	.1	50	89	60	0	0	1	0	
Red Bluff . . .	82	58	96	55	70	4	.2	0	.1	.5	71	78	39	1	0	2	0	
San Diego . . .	73	69	73	69	71	4	0	- .1	0	0	0	70	66	0	0	0	0	
San Francisco . . .	74	58	77	54	66	4	T	- .2	T	0	0	87	53	0	0	0	0	
Stockton . . .	82	57	88	54	69	4	.2	- .1	.2	.2	50	81	39	0	0	1	0	
COLO. Denver . . .	73	40	84	34	57	3	.2	- .1	.1	.5	29	73	31	0	0	1	0	
Grand Junction . . .	79	51	82	48	65	8	0	- .2	T	0	0	32	16	0	0	0	0	
Pueblo . . .	76	39	89	27	57	0	0	0	0	.6	55	74	25	0	1	0	0	
CONN. Bridgeport . . .	54	40	65	33	47	-11	1.0	.4	.4	7.0	184	89	51	0	0	3	0	
Hartford . . .	51	34	59	28	42	-12	1.1	.5	.5	7.4	164	73	57	0	2	3	0	
D.C. Washington . . .	60	44	71	36	52	- 9	2.1	1.5	1.0	11.3	283	88	58	0	0	6	2	
FLA. Apalachicola . . .	80	57	84	51	69	- 4	.3	- .4	.3	17.0	165	82	49	0	0	1	0	
Daytona Beach . . .	82	62	85	57	72	- 3	T	- 1.4	T	13.9	145	94	54	0	0	0	0	
Ft. Myers . . .	87	71	89	67	79	- 2	.1	- 1.1	.1	14.8	136	89	61	0	0	1	0	
Jacksonville . . .	80	55	85	50	68	- 4	.2	- 1.0	.2	17.8	180	94	57	0	0	2	0	
Key West . . .	86	77	89	75	82	- 1	1.0	- .4	.6	4.0	40	86	67	0	0	2	2	
Miami . . .	82	70	86	65	76	- 3	1.7	- .4	1.0	15.3	122	93	64	0	0	2	2	
Orlando . . .	85	63	89	57	74	- 2	T	- 1.1	T	9.2	100	88	52	0	0	0	0	
Tallahassee . . .	80	50	85	43	65	- 6	0	- .7	0	10.1	128	81	43	0	0	0	0	
Tampa . . .	83	68	85	63	75	- 1	.1	- .5	.1	14.1	191	90	57	0	0	1	0	
W. Palm Beach . . .	85	68	90	63	77	- 2	1.3	- .9	.9	20.7	150	95	63	1	0	2	1	
GA. Atlanta . . .	73	47	83	38	60	- 4	.1	- .5	.1	7.3	174	91	41	0	0	1	0	
Augusta . . .	75	46	83	38	61	- 5	T	- .5	T	5.5	134	87	46	0	0	1	0	
Macon . . .	78	47	84	41	62	- 5	.1	- .5	.1	6.1	145	85	39	0	0	1	0	
Savannah . . .	77	54	83	50	66	- 4	T	- .7	T	12.9	190	80	46	0	0	0	0	
HAWAII. Hilo . . .	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Honolulu . . .	89	76	93	74	82	3	.4	.1	--	.9	90	75	48	3	0	--	0	
Kahului . . .	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Lihue . . .	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
IDAHO. Boise . . .	77	45	83	41	61	6	0	- .1	0	0	0	51	23	0	0	0	0	
Lewiston . . .	76	47	79	44	62	8	.2	0	.2	.4	33	57	27	0	0	1	0	
Pocatello . . .	76	39	82	34	57	7	0	- .1	0	.2	33	56	19	0	0	0	0	
ILL. Cairo . . .	69	46	86	39	58	- 6	.2	- .4	.1	3.2	73	--	--	0	0	2	0	
Chicago . . .	56	40	68	32	48	-10	.1	- .6	T	1.2	30	74	35	0	1	2	0	
Moline . . .	58	34	75	27	46	-11	.1	- .6	.1	.6	12	84	35	0	4	1	0	
Peoria . . .	59	34	75	26	47	-11	.1	- .5	.1	.6	13	65	34	0	3	1	0	
Rockford . . .	53	37	66	28	44	-11	.1	- .6	.1	.6	11	87	43	0	1	3	0	
Springfield . . .	64	36	82	27	50	- 9	.1	- .6	.1	.2	4	82	30	0	3	2	0	
IND. Evansville . . .	65	41	84	29	53	- 8	.6	0	.6	3.7	97	75	43	0	1	3	1	
Ft. Wayne . . .	58	34	65	24	46	-12	.1	- .5	.1	1.8	50	91	51	0	2	2	0	
Indianapolis . . .	55	42	69	32	49	- 7	.4	- .3	.1	1.5	38	83	44	0	3	3	0	
South Bend . . .	61	37	78	26	49	- 9	.1	- .6	.1	3.5	81	83	56	0	1	5	0	
IOWA. Burlington . . .	62	38	75	28	50	- 7	T	- .5	T	.8	21	68	32	0	3	1	0	
Des Moines . . .	53	36	65	28	45	- 9	.1	- .6	.1	.3	6	--	--	0	3	0	0	
Dubuque . . .	59	35	73	23	47	- 9	0	- .4	0	2.0	56	81	43	0	3	2	0	
Sioux City . . .	72	43	89	31	58	- 2	T	- .5	T	.8	20	60	24	0	1	0	0	
KANS. Concordia . . .	74	43	94	34	58	- 2	0	- .4	0	.1	4	53	25	1	0	0	0	
Dodge City . . .	73	40	87	32	57	2	0	- .2	0	.2	11	69	27	0	1	0	0	
Goodland . . .	69	38	88	29	54	- 6	T	- .7	T	.8	18	74	28	0	4	0	0	
Topeka . . .	76	44	95	33	60	- 2	0	- .6	0	1.6	34	47	20	2	0	0	0	
Wichita . . .	61	40	74	29	50	-10	1.2	.8	1.0	11.9	361	82	44	0	1	4	1	
KY. Lexington . . .	65	42	78	33	54	- 7	.7	.2	.6	12.1	318	78	51	0	0	3	1	
Louisville . . .	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

Based on preliminary reports and 1941-70 normals

Weather Data for the Week Ending Oct. 14, 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 . . .	80	55	86	43	67	- 3	0	-.6	0	3.4	69	91	44	0	0	0	0
Lake Charles . . .	80	56	86	46	68	- 4	0	-.8	0	12.6	229	77	50	0	0	0	0
New Orleans . . .	81	55	90	46	68	- 3	T	-.5	T	3.0	47	86	45	1	0	0	0
Shreveport . . .	79	51	88	45	65	- 4	T	-.6	T	3.6	88	90	39	0	0	0	0
MAINE. Caribou . . .	45	30	50	26	38	- 7	.6	.1	.3	6.0	128	88	60	0	4	4	0
Portland . . .	49	32	59	29	40	-10	1.8	1.1	.5	9.1	212	82	56	0	5	2	0
MD. Baltimore . . .	59	41	69	34	50	- 9	2.3	1.7	1.3	11.9	298	93	55	0	0	6	2
MASS. Boston . . .	51	39	56	32	45	-12	1.0	.4	.6	6.5	155	79	63	0	0	3	1
Chatham . . .	54	41	62	38	48	-	2.4	-	1.2	5.4	129	77	62	0	2	4	2
MICH. Alpena . . .	46	31	50	25	39	-10	.9	-.5	.6	1.8	45	-	-	0	3	5	1
Detroit . . .	52	34	57	29	43	-13	.4	-.2	.5	1.9	61	81	57	0	3	4	0
Flint . . .	50	36	52	33	43	-10	.4	-.1	.2	1.2	36	99	64	0	0	2	0
Grand Rapids . . .	51	37	55	30	44	-10	.5	-.1	.3	.9	21	94	64	0	1	6	0
Houghton Lake . . .	44	32	46	25	38	-12	.6	0	-	1.2	28	98	73	0	3	5	9
Lansing . . .	50	34	53	28	42	-12	.4	-	-	.9	25	92	59	0	3	5	9
Marquette . . .	40	29	46	25	35	-12	1.8	1.2	1.0	4.2	100	96	74	0	6	5	1
Muskegon . . .	50	37	56	28	44	-10	1.1	.5	.2	2.9	64	90	61	0	1	5	0
S. Ste. Marie . . .	44	28	47	23	36	-12	1.1	.5	.6	3.1	63	97	63	-12	6	5	1
MINN. Duluth . . .	48	31	60	28	39	- 9	.2	-	.1	1.7	42	78	47	0	5	3	0
Internatl. Falls . . .	40	24	47	18	32	-14	.1	-.3	.1	.9	23	88	56	0	7	4	0
Minneapolis . . .	49	30	60	28	40	-13	T	-.4	T	2.6	76	81	53	0	6	2	0
Rochester . . .	52	33	60	29	43	-10	.1	-.4	.1	1.4	36	87	48	0	4	3	0
St. Cloud . . .	49	30	62	24	39	-11	.1	-.3	.1	2.2	69	84	-	0	5	1	0
MISS. Jackson . . .	78	47	87	41	62	- 5	.1	-.4	.1	5.9	155	92	41	0	0	1	0
Meridian . . .	78	47	86	39	62	- 4	.2	-.3	.1	8.2	195	92	42	0	0	1	0
MO. Columbia . . .	65	39	89	26	52	- 8	T	-.8	T	0	0	66	30	0	1	1	0
Kansas City . . .	67	40	87	27	54	- 6	.1	-.7	.1	.5	9	62	27	0	1	1	0
St. Louis . . .	68	42	89	32	55	- 6	T	-.6	T	.1	3	71	32	0	1	1	0
Springfield . . .	72	43	92	30	58	- 4	T	-.8	T	.3	5	60	28	1	1	1	0
MONT. Billings . . .	72	42	82	30	57	- 6	.1	-.1	.1	.2	11	62	26	0	1	1	0
Glasgow . . .	63	39	79	29	51	- 2	.1	0	.1	.3	30	74	37	0	2	1	0
Great Falls . . .	70	39	80	29	55	- 4	-.1	0	-.1	.4	27	72	29	0	2	1	0
Havre . . .	68	40	87	23	53	- 4	-.1	0	-.1	.9	64	76	30	0	2	1	0
Helena . . .	70	34	81	20	52	- 4	T	-.1	T	.1	9	71	25	0	1	0	0
Kalispell . . .	68	28	73	22	48	- 3	0	-.3	0	.4	24	83	30	0	7	0	0
Miles City . . .	65	41	80	29	53	- 1	.1	-.1	-	.1	6	75	40	0	1	0	0
Missoula . . .	70	36	77	30	53	- 6	0	-.2	0	0	0	73	28	0	2	0	0
NEBR. Grand Island . . .	69	37	82	24	53	- 3	0	-.3	0	2.0	67	59	27	0	1	0	0
Lincoln . . .	69	39	82	22	52	- 5	0	-.4	0	.4	11	77	31	0	1	0	0
Norfolk . . .	64	36	75	20	50	- 5	T	-.3	T	1.8	60	75	32	0	2	0	0
N. Platte . . .	73	37	83	31	55	- 2	T	-.3	T	.4	16	73	24	0	2	1	0
Omaha . . .	62	39	75	25	50	- 7	0	-.4	0	2.1	55	91	40	0	1	0	0
Valentine . . .	64	39	79	29	51	- 1	T	-.2	T	1.4	74	76	35	0	2	0	0
NEV. Ely . . .	77	36	81	32	57	- 8	0	-.1	0	.1	14	43	13	0	1	0	0
Las Vegas . . .	88	61	92	59	75	- 5	0	0	0	0	0	32	14	2	0	0	0
Reno . . .	77	39	83	35	58	- 6	T	-.1	T	.1	20	81	20	0	0	0	0
Winnemucca . . .	82	37	85	31	60	- 9	T	-.1	T	0	0	55	18	0	1	0	0
N.H. Concord . . .	47	30	55	27	39	-12	1.1	.5	.4	6.5	159	80	44	0	6	2	0
N.J. Atlantic City . . .	57	38	70	32	48	-11	1.8	1.1	.8	5.5	134	82	48	0	1	4	2
Trenton . . .	55	40	65	33	48	-11	1.7	1.1	.9	9.8	233	-	-	0	0	4	2
N.MEX. Albuquerque . . .	83	48	89	38	65	- 5	T	-.2	T	.4	36	45	14	0	0	0	0
Roswell . . .	84	50	95	43	67	- 5	0	-.3	0	.1	5	-	-	3	0	0	0
N.Y. Albany . . .	50	33	55	29	42	-11	.3	-.3	.2	7.2	176	81	49	0	4	2	0
Binghamton . . .	49	35	52	33	42	-10	.5	-.2	.3	6.0	143	78	53	0	0	4	0
Buffalo . . .	51	36	55	31	44	-10	1.5	.9	1.1	8.2	186	92	59	0	1	5	1
New York . . .	55	43	67	36	49	-11	1.4	.8	.6	7.6	190	83	56	0	0	2	1
Rochester . . .	52	36	57	32	44	-10	1.6	0	.2	6.6	194	95	61	0	2	6	0
Syracuse . . .	51	38	54	34	45	- 9	.6	-.1	.2	6.3	166	88	57	0	0	5	0
N.C. Asheville . . .	67	38	81	31	53	- 6	.1	-.7	.1	6.0	122	90	48	0	1	2	0
Charlotte . . .	69	44	80	36	56	- 7	.2	-.4	.2	11.2	255	90	50	0	0	2	0
Greensboro . . .	66	42	80	34	54	- 7	.9	-.2	.8	15.2	323	90	56	0	0	2	1
Hatteras . . .	71	51	79	44	61	- 6	.3	-.8	.1	14.1	186	83	51	0	0	2	0
Raleigh . . .	69	42	83	33	56	- 7	.5	-.1	.3	7.8	163	91	52	0	0	3	0
Wilmington . . .	75	49	85	41	62	- 5	T	-.8	0	15.3	222	88	39	0	0	0	0
N.DAK. Bismarck . . .	57	30	71	13	44	- 6	T	-.8	T	.8	47	81	36	0	3	1	0
Fargo . . .	49	29	66	17	39	-11	.1	-.2	.2	.3	13	77	49	0	5	3	0
Williston . . .	61	34	78	24	48	- 1	T	-.1	T	.3	21	77	39	0	3	1	0
OHIO. Akron-Canton . . .	51	35	58	33	43	-12	.9	-.4	.4	9.3	266	73	60	0	0	6	0
Cincinnati . . .	57	37	68	27	47	-12	.3	-.1	.1	9.6	291	86	55	0	2	3	0
Cleveland . . .	52	38	57	35	45	-11	.4	-.2	.3	4.7	124	90	65	0	0	5	0
Columbus . . .	55	38	65	30	46	-10	.4	0	.1	7.8	252	88	56	0	1	5	0
Dayton . . .	54	35	63	27	44	-13	.5	-.1	.3	4.8	160	87	56	0	2	3	0
Toledo . . .	53	34	61	29	43	-12	.3	-.2	.3	4.2	127	93	56	0	3	2	0
Youngstown . . .	50	36	55	33	43	-12	.6	0	.2	6.6	183	86	64	0	0	7	0

Based on preliminary reports and 1941-70 normals

Weather Data for the Week Ending Oct. 14, 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 . . .	80	52	94	35	66	1	0	-.6	0	.3	7	51	24	2	0	0	0
Tulsa . . .	79	50	97	37	65	0	0	-.8	0	.1	2	61	25	2	0	0	0
OREG.Astoria . . .	65	51	78	45	58	5	.3	-1.1	.3	4.1	77	95	70	0	0	2	0
Burns . . .	77	48	80	44	63	14	.1	-1.1	.1	1.6	86	52	23	0	0	0	0
Medford . . .	81	47	89	42	64	9	.8	-.4	.6	1.0	77	73	34	0	0	2	1
Pendleton . . .	73	45	76	41	59	4	.3	-.1	.3	.5	56	64	31	0	0	1	1
Portland . . .	72	51	81	44	62	7	.3	-.1	.2	.9	32	90	52	0	0	1	1
Salem . . .	71	43	84	38	57	2	.1	-.7	.1	.5	17	93	48	0	0	2	0
PA.Allentown . . .	54	39	64	35	46	-10	1.0	-.4	.6	10.5	228	90	59	0	0	4	1
Erie . . .	53	42	56	35	47	-8	2.9	2.2	-.1	7.7	164	-.1	-.1	0	0	0	0
Harrisburg . . .	56	40	63	35	47	-11	.6	0	-.1	9.7	269	84	54	0	0	0	0
Philadelphia . . .	56	40	64	33	48	-11	2.0	1.4	1.0	8.4	210	92	64	0	0	5	2
Pittsburgh . . .	51	37	57	33	44	-11	.9	-.3	.3	5.6	156	80	55	0	0	5	0
Scranton . . .	53	39	58	38	46	-8	.2	-.4	.1	8.0	211	84	52	0	0	2	0
R.I.Providence . . .	54	38	63	32	46	-9	1.2	-.5	.2	7.8	177	78	58	0	1	3	0
S.C.Charleston . . .	75	57	83	49	67	-1	T	-.8	T	19.7	303	87	50	0	0	0	0
Columbia . . .	75	46	83	37	60	-6	T	-.6	T	9.9	183	87	43	0	0	0	0
Greenville . . .	70	44	79	33	57	-6	.2	-.5	.2	8.1	162	92	46	0	0	1	0
S.DAK.Aberdeen . . .	57	33	67	13	45	-6	T	-.3	T	0	0	76	32	0	3	0	0
Huron . . .	56	30	68	11	43	-9	T	-.4	T	0	0	73	37	0	3	3	0
Rapid City . . .	66	38	80	29	52	0	.1	-.1	-.1	.2	13	68	37	0	2	0	0
Sioux Falls . . .	57	33	68	21	45	-8	T	-.4	T	4.1	114	81	45	0	2	1	0
TENN.Chattanooga . . .	71	46	84	35	59	-4	.6	0	.4	8.3	177	82	45	0	0	2	0
Knoxville . . .	67	43	79	34	55	-8	1.0	.4	.7	3.9	103	79	45	0	0	4	1
Memphis . . .	75	52	87	39	63	-2	.3	-.3	.3	3.5	87	74	36	0	0	1	0
Nashville . . .	69	44	85	32	56	-7	.6	-.1	.5	11.7	292	84	43	0	1	2	1
TEX.Abilene . . .	87	59	102	40	73	5	0	-.6	0	0	0	45	21	3	0	0	0
Amarillo . . .	76	45	94	37	61	-1	0	-.5	0	.5	19	51	26	1	0	0	0
Austin . . .	86	62	93	50	74	2	0	-.7	0	1.4	28	74	34	2	0	0	0
Beaumont . . .	82	59	88	46	70	-2	0	-.9	0	6.4	94	87	51	0	0	0	0
Brownsville . . .	88	65	91	56	77	0	T	-.8	T	8.7	128	88	49	5	0	0	0
Corpus Christi . . .	88	63	92	52	76	1	0	-.7	0	12.9	205	87	51	3	0	0	0
Del Rio . . .	90	61	97	52	75	2	0	-.5	0	.7	18	66	24	3	0	0	0
El Paso . . .	88	50	96	43	69	3	0	-.2	0	.4	27	45	15	3	0	0	0
Fort Worth . . .	86	57	99	45	71	2	0	-.6	0	1.0	23	66	26	3	0	0	0
Galveston . . .	77	67	82	57	72	-3	0	-.7	0	10.1	149	71	64	0	0	0	0
Houston . . .	85	56	90	46	70	-2	0	-.9	0	9.1	147	81	40	1	0	0	0
Lubbock . . .	81	50	98	42	65	2	0	-.5	0	.2	6	46	22	2	0	0	0
Midland . . .	86	52	100	43	69	1	.5	-.1	.5	.6	25	57	25	3	0	1	1
San Angelo . . .	85	57	99	40	71	2	0	-.5	0	.1	3	54	28	3	0	0	0
San Antonio . . .	88	64	92	50	76	3	0	-.7	0	.8	16	76	34	3	0	0	0
Victoria . . .	86	61	91	54	73	-1	0	-.9	0	9.1	147	65	50	2	0	0	0
Waco . . .	82	57	93	42	70	-1	T	-.6	T	2.5	57	77	39	3	0	0	0
Wichita Falls . . .	85	56	100	38	71	2	0	-.7	0	0	0	53	20	3	0	0	0
UTAH.Blanding . . .	77	44	82	43	61	7	T	-.4	T	.1	6	47	15	0	0	1	0
Salt Lake City . . .	80	48	85	44	64	9	T	-.3	T	.1	9	64	22	0	0	0	0
VT.Burlington . . .	45	35	51	30	40	-10	.5	-.1	.3	5.8	145	86	61	0	4	5	0
VA.Lynchburg . . .	60	41	77	33	50	-9	1.4	.8	1.1	12.4	295	87	-.1	0	0	5	1
Norfolk . . .	67	46	83	42	56	-7	.7	0	.4	14.6	275	66	52	0	0	4	1
Richmond . . .	65	42	81	36	54	-7	1.3	.6	.9	12.6	268	95	62	0	0	4	1
Roanoke . . .	61	39	75	32	50	-10	1.8	1.0	1.6	12.1	252	69	61	0	1	3	1
WASH.Colville . . .	72	40	76	32	56	7	T	-.3	T	.4	31	-.1	-.1	0	1	0	0
Omak . . .	64	47	74	38	55	3	T	-.2	T	-.1	-.1	-.1	-.1	0	0	0	0
Quillayute . . .	64	47	74	38	55	3	T	-.2	T	6.9	72	97	72	0	0	2	0
Seattle-Tacoma . . .	62	48	74	43	55	1	.3	-.5	.2	1.4	41	90	62	0	0	2	0
Spokane . . .	72	43	76	37	58	8	T	-.3	T	.4	29	56	29	0	0	0	0
Walla Walla . . .	76	52	80	45	64	7	.4	-.1	-.1	.7	50	59	31	0	0	0	0
Yakima . . .	75	40	79	35	58	5	T	-.1	T	.1	17	79	30	0	0	0	0
W.VA.Bockley . . .	53	34	64	29	44	-11	1.5	.9	.4	6.7	156	100	69	0	3	6	0
Charleston . . .	59	38	71	31	49	-10	2.3	1.7	1.4	7.2	185	95	56	0	1	6	1
Huntington . . .	59	40	70	31	49	-10	2.1	1.7	1.6	7.7	214	85	52	0	1	6	1
Parkersburg . . .	60	45	67	40	49	-10	1.4	.9	-.1	6.7	186	84	53	0	0	0	0
WISC.Green Bay . . .	49	32	54	22	47	-5	.2	-.3	-.1	1.2	29	90	61	0	3	4	0
La Crosse . . .	51	35	60	28	43	-12	.1	-.4	-.1	1.5	36	85	54	0	3	1	0
Madison . . .	52	33	62	22	42	-10	.1	-.4	-.1	.6	14	86	50	0	2	3	0
Milwaukee . . .	54	37	60	27	45	-8	.1	-.3	T	.4	11	89	48	0	2	1	0
WYO.Casper . . .	70	35	78	28	52	2	T	-.2	T	.2	17	63	24	0	3	2	0
Cheyenne . . .	69	39	78	31	54	4	T	-.2	T	.3	21	55	25	0	1	2	0
Lander . . .	69	39	78	31	54	5	T	-.3	T	0	0	70	30	0	1	1	0
Sheridan . . .	67	35	81	25	51	1	.2	0	.2	.6	35	81	33	0	3	1	0
P.R.San Juan . . .	89	76	91	75	82	1	.1	-1.1	.1	10.4	126	93	64	2	0	2	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: Last half coolest of fall after early mild temperatures, average 5° subnormal; scattered frost on 15th. Rainfall limited to showers on 9th.

Fieldwork: 5.1 days suitable. Soil moisture adequate. Crop harvest, seeding fall crops main activities. Corn 82% harvested, 81% 1978, 55% average. Soybeans 90% turning yellow, 89% 1978; 67% dropping leaves; 42% mature, 65% 1978, 58% average; 16% harvested, 17% 1978, 14% average. Cotton 65% bolls open, 90% 1978, 63% average; 10% harvested, 51% 1978, 14% average. Peanuts 90% dug, 93% 1978; 82% combined, 89% 1978, 79% average. Wheat 35% seeded, 41% 1978. Sorghum 50% harvested, 46% 1978. Condition of soybeans good; cotton fair to good; pastures mostly good, getting dry south; pecans mostly fair.

ARIZONA: Temperatures averaged 1 to 7° above normal. No precipitation.

Cotton picking increasing; 16% picked, 18% last year, average 16%. Heaviest picking in west. Defoliation active. Harvest corn, sorghum seasonal progress. Alfalfa haying active but slowing. Older fields renovated, new fields up to stand. Small grain activities increasing, some planting. Lettuce harvest full swing southeast. Other fall lettuce, good progress. Mixed vegetables, fairly good growth despite hot weather. Lemon harvest full swing west, approaching full volume central areas. Limited grapefruit harvest underway. Groves good condition, good prospects. Gasoline, diesel, LP gas adequate except southeast where gasoline, diesel tight. Cattle, calves good condition. Ranges deteriorating, no rainfall. Water hauling, supplemental feeding some areas.

ARKANSAS: Temperatures below normal. Scattered precipitation.

Fieldwork: 6.1 days suitable. Soil moisture short to adequate. Diesel 78% adequate, 18% tight; gasoline 85% adequate, 13% tight; LP gas 95% adequate. Soybean fields needed rain; 63% mature; 8% harvested, 12% 1978, 16% average; harvest increasing. Cool temperatures slowed cotton boll development; open bolls 61%, 88% 1978, 79% average; harvested 11%, 41% 1978, 31% average; defoliation continued. Rice harvesting peaked; harvesting 75% complete, 93% 1978, 81% average. Corn harvest 43% complete, 58% 1978, 79% average. Sorghum harvesting 74% complete, 91% 1978, 82% average. Small grains planting slowed by dry weather; early stands need moisture; planting after soybeans and rice harvest. Wheat 21% seeded, 34% 1978, 35% average. Aerial seeding behind soybeans. Oats 22% seeded, 34% 1978, 33% average. Apple harvest complete. Fall vegetable harvest continuing. Hay making completed.

CALIFORNIA: Temperatures moderated with averages only slightly above normal through coastal and valley areas but continued considerably above normal through southeast interior and some mountain locations. Scattered showers fell over north 8th.

Cotton harvest 9% complete. Defoliation active but declining. Rice 94% ripe, 60% harvested; harvest slowed by drier backlog. Dry bean harvest active, blackeyes full swing. Corn silage and grain harvests increased Central Valleys. Safflower passed peak activity. Milo silage harvest increased. Sugarbeet harvest full swing. Begin-

ning seeding fall grain. Seeding alfalfa active. Apple harvest strong. Apricot pruning noted. Avocado movement moderate, quality variable. Soft date harvest beginning. Fig harvest complete. All sun-dried raisins boxed, quality good. Table grape harvest continuing. Wine grape harvest completion in sight. Nectarine harvest complete. Persimmon harvest increasing. Desert Valley grapefruit movement increasing, quality good. Lemon movement stable, quality variable. Navel orange crop normal. Valencia orange movement moderate, quality variable. Almond harvest past peak. Walnut harvest underway. Brussels sprouts harvest full swing central coast. Broccoli, cauliflower fairly heavy supply. Cauliflower diversion to freezers continued. Harvest cantaloup, honeydews, increasing desert. Bell peppers volume steady central coast, San Joaquin Valley. Lettuce harvest increasing rapidly San Joaquin Valley, decreasing central coast. Fall potato harvest active Tulalake-Butte Valley. Most going to storage. Market tomato harvest increasing San Diego, decreasing Oxnard and San Joaquin Valley. Processing tomato harvest virtually complete. Ranges dry, still providing adequate feed. Some supplemental hay feeding. Calving, lambing underway. Calf crop reported heavier than usual. Cattle grazing harvested vegetable fields. Sheep grazing alfalfa, safflower. Fuels continue to be in adequate supply.

COLORADO: Dry and warm with very little precipitation and above normal temperatures. Temperatures ranged from 2 to 8° above normal.

Winter wheat seeded 100%, 100% 1978, 100% average; emerged 93%, 80% 1978, 81% average. Crop off to excellent start. Corn grain harvest 12%, 26% 1978, 28% average. Corn silage harvest 98%, 100% 1978, 100% average. Sorghum grain harvest 7%, 15% 1978, 17% average. Sorghum forage harvest 84%. Dry beans cut 97%, 100% 1978, 100% average; threshed 89%, 100% 1978, 90% average. Fall potato harvest 80% complete. Fieldwork: 6 days suitable. Ranges and pastures good condition. Livestock very good condition. Fuel supplies mostly adequate.

FLORIDA: Some rains mainly over south. Temperatures below normal, except near normal south.

Soil moisture mostly adequate with western Panhandle getting dry and parts of south remaining wet. Peanut harvest active. Combining soybeans increasing rapidly. Late corn harvest and hay-making continued. Peanut yields reduced by excessive moisture. Sugarcane good to excellent condition. Land preparation, small grain seeding active. Fuel supplies mostly adequate; diesel fuel little tight central and south. Pasture and cattle fair to good condition. Moisture adequate to surplus some southern areas. Near absence of rainfall during most of the past two weeks in citrus growing areas allowed wet soils to dry. Harvest of new crop slowly getting underway, mostly grapefruit, Navels. Weather conditions near ideal vegetable farming areas. Warm days, mild nights prevailed. Land preparation continued active, planting steady. Improved weather very beneficial for plant development, progress. Spray programs very active and effective to control disease. Harvest gaining eggplant, cucumbers, okra, sweet corn, squash. Harvest continued light snap beans, tomatoes; quality remains good. Yields

improving with better weather. Gadsden County pole bean, squash harvest active; quality excellent. Radish harvest starting Everglades.

GEORGIA: Temperatures 4 to 7° below normal. Averages ranged from low 50's mountains, mid-60's south. Rainfall very light. Most amounts less than 0.25 in. Most rain fell 10th and 11th.

Soil moisture adequate statewide. Fieldwork: 5 days suitable. Corn fair to good; 85% harvested, 87% last year, 69% average. Soybeans fair to mostly good; 7% harvested, 16% last year, 9% average. Peanuts fair to good; 92% dug and 82% threshed, last year 97% dug and 94% threshed, average 93% dug and 87% threshed. Cotton fair to good; 21% harvested, 40% last year, 24% average. Pecans fair to good; 5% harvested, last year and average same. Apples fair to good; 96% harvested, 95% last year. Hay crops and pastures fair to mostly good. Hogs and cattle good. Wheat 21% planted, 15% last year. Rye 29% planted, 17% last year. Other small grains 25% planted, 16% last year. LP gas 94% adequate, 3% tight. Diesel fuel 93% adequate, 7% tight. Gasoline 95% adequate, 4% tight.

HAWAII: Favorable weather. Isolated heavy rains Island Hawaii. Drainage canal blocked causing flooding; no crop damage. Heavy rains also Island Kauai.

Humid weather some areas affecting leaf crop progress. Spraying continues for disease and insect control. Vegetable supplies: Manoa lettuce light. High humidity affecting progress and yields. Snap bean harvest light. Others generally adequate. Banana supplies light. Papaya supplies gradually increasing; year end seasonal flush occurring. Pineapple harvesting sporadic, some areas completed. Sugar harvesting steady. Pastures generally good. Beneficial rains Ka'U district, Hawaii, Hanalei District, Kauai. Fuel supplies adequate.

IDAHO: Temperatures averaged 6 to 10° above normal. Range: 15 to 88°. No precipitation.

Fall harvest and seeding operations active. Potato digging 70% complete, same as last year. Third cutting alfalfa and corn silage nearly complete. Onions 90% harvested, same as last year. Apples 25% picked. Red clover and alfalfa seed harvest nearing completion. Sugarbeets 5% lifted. Winter wheat and barley 85% seeded, 80% last year. Ranges dry and deteriorating. Some supplemental feeding necessary.

ILLINOIS: Temperatures averaged 4 to 11° below normal. Precipitation light, most areas less than 0.20 in., southeast over 0.50 in.

Soil moisture short to adequate. Corn 23% harvested, 39% 1978, 29% average. Soybeans 78% harvested, 70% 1978, 64% average. Grain sorghum 35% harvested. Winter wheat 55% seeded, 60% 1978, 57% average. Pastures fair to good. Fieldwork: 6.5 days suitable.

INDIANA: Cool week. Lowest temperatures weekend ranged from 24 to 32° ending growing season. Mean temperatures averaged 9° below normal. Showers on two days averaged 0.10 in. north to 0.40 in. south.

Fieldwork: 4 days suitable. Topsoil and subsoil moisture adequate. Corn 15% harvested, 1978 20%, average 20%; 100% mature, 1978 100%, average 95%. Soybeans 40% combined, 1978 40%, average 50%; 95% mature, 1978 90%, average 95%. Wheat 55% seeded, 1978 60%, average 55%. Wheat land 75% plowed, 1978 80%, average 80%. Spring cropland 15% plowed, average 15%.

IOWA: Temperatures averaged 7° below normal with a downward trend through week. General killing frost 13th. Very light, scattered, below-normal showers.

Fieldwork: 6.8 days favorable. Corn condition very good; harvested 14%, 1978 35%, normal 31%. Soybean condition mostly good; mature 100%, 1978 100%, normal 100%; harvested 83%, 1978 49%, normal 62%. Topsoil moisture short to adequate. Subsoil moisture adequate. Livestock good condition. Livestock market movement normal, herd replacement remains slow. Pasture condition mostly good, only fair southeast, poor south central.

KANSAS: Continued dry weather with isolated showers across northeast and extreme south yielding generally less than 0.10 in. moisture. Temperatures mostly 1 to 4° below normal, except 3° above normal northwest.

Very dry conditions. Corn 100% mature, 95% last year and average; harvested 50%, 60% year ago, 40% average. Sorghum grain 90% mature, 85% last year, 80% average; harvested 40%, last year 45%, 30% average. Soybeans harvest 50% complete, 35% year ago, 20% average. Wheat seeding 80% done, 90% last year, 80% average.

KENTUCKY: Temperatures averaged 5 to 10° below normal. Rain occurred every day until weekend and averaged from 0.50 in. west and to just under 1.00 in. central.

Wet and harvesting progress slow. Corn harvest 36% complete, last year 54%, average 42%. Soybean harvest 14% complete, 31% last year, 25% average. Harvesting losses of both corn and soybeans could be high if fields don't dry soon. Burley 7% stripped, another 25 to 30% ready to strip. Wheat planting delayed by slow corn and soybean harvests. Seeding 26% complete, 45% last year, 35% average.

LOUISIANA: Temperatures normal to 3° below normal. Extremes: 91 and 40°. No rain.

Fieldwork: 6.4 days suitable. Soil moisture adequate. Soybeans good; 82% turning color, 93% last year; 67% shed leaves, 73% last year; 31% harvested, 34% last year, 38% average. Cotton good; 77% bolls open, 94% last year; 17% harvested, 47% last year, 31% average. Rice 97% harvested. Corn 99% harvested, 95% last year. Sorghum 90% harvested, 86% last year, 83% average. Sweetpotatoes 74% dug, 81% last year, 77% average. Sugarcane 93% planted, 77% last year, 82% average; good condition. Oats and wheat 40% seeded, 59% last year, 60% average. Pecans fair. Hay, pastures fair to good. Cattle good.

MARYLAND & DELAWARE: Temperatures averaged 7° below normal. Highs in mid-60's and lows in mid-40's. Precipitation widespread, from 1.00 to 4.00 in., averaging about 2.00 in.

Fieldwork: 1.2 days suitable. Soil moisture supplies surplus. Fuel supplies adequate. Corn harvest for silage 80%, 99% last year, 96% normal. Harvest for grain 50%, 66% last year, 61% normal. Soybeans yellowed 70%, 88% last year, 83% normal; 60% shed leaves, 94% last year, 79% normal. Harvest of early varieties will start as field conditions permit.

MICHIGAN: Cold with above-normal precipitation. Temperatures averaged 10 to 14° below normal.

Fieldwork: 3 days suitable. Soil moisture adequate. Pasture feed supplies average. Corn 100% dented, 100% last year and normal; 80% mature, 92% last year, 95% normal; 5% harvest, 13% last year and 14% normal. Soybean 100% shedding leaves; mature 70%, 89% last season, 98% normal; 10% harvested, 13% last year, 25% normal. Winter wheat

85% seeded, 74% last year, 76% normal. Corn silage 90% chopped, 89% last year and 80% normal. Dry beans 95% harvested, 85% last season, 74% normal. Potatoes 85% dug, 68% last year and 74% normal. Sugarbeet harvest 20%, 11% last fall and normal. Third cut haymaking over 90%, 89% last year and 60% normal. Grape harvest 70% complete. Red Delicious, Northern Spies 60% picked; Jonathans 75% picked. Cabbage 70% harvested, celery 95%, carrots 90% harvested, cauliflower 65% cut.

MINNESOTA: Temperatures averaged 7 to 14° below normal. Extremes: 69 and 11°. Precipitation averaged 0.20 to 0.40 in. below normal except extreme northeast slightly above. Precipitation totals generally less than 0.25 in. except some locally heavier accumulations. Extremes 0.02 in. and 0.54 in.

Good progress harvesting soybeans, sunflowers, sugarbeets, potatoes. Corn for grain harvest just beginning. Soil moisture short northern two-thirds, adequate southern third. Harvested: Corn 5%, 1978 36%, normal 42%; soybeans 61%, 1978 71%, normal 74%; sunflowers 37%, 1978 67%, normal 60%; flax 90%, 1978 92%, normal 93%; sugarbeets 55%, 1978 85%, normal 59%; potatoes 85%, 1978 85%, normal 85%; silage corn 79%, 1978 95%, normal 97%.

MISSISSIPPI: Temperatures 1 to 8° below normal. Extremes 29 and 89°.

Soil moisture adequate to short. Fieldwork: 5.4 days suitable. Harvest progressing though most crops behind average. Need rain for winter grazing crops. Soybeans 86% shedding, 95% 1978, 86% average; 46% mature, 62% 1978, 54% average; 17% harvested, 28% 1978, 22% average; condition fair to good. Cotton 94% open bolls, 89% average; 12% harvested, 60% 1978, 32% average; condition fair to good. Rice 74% harvested, 93% 1978, 78% average. Corn 70% harvested, 77% 1978, 68% average. Sorghum 82% harvested, 86% 1978, 77% average. Sorghum silage 92% harvested. Hay crops 92% harvested, 94% 1978, 91% average. Sweetpotatoes 62% harvested, 60% 1978, 66% average. Peanuts 72% harvested, 89% 1978, 83% average. Winter wheat 36% planted, 50% 1978, 49% average. Pecan harvest less than 1%; condition poor. Pasture condition good to fair. Diesel and gasoline supplies adequate to tight. LP gas supplies adequate.

MISSOURI: Temperatures 3 to 6° below normal; coolest northeast Prairie. Precipitation light and scattered.

Fieldwork: 6.2 days suitable. Corn 91% mature, last year 88%, normal 94%; 38% harvested, last year 38%, normal 45%. Soybeans 88% mature, last year 73%, normal 71%; 54% harvested, last year 26%, normal 29%. Grain sorghum 90% mature, last year 83%, normal 89%; 46% harvested, last year 44%, normal 46%. Cotton 30% harvested, last year 38%, normal 27%. Winter wheat 49% seeded, last year 46%. Plowing for spring planted crops 17% completed, last year 16%. Pastures mostly poor to fair. Soil moisture mostly short. Fuel supplies for farmwork mostly adequate.

MONTANA: Temperatures averaged 2° above normal northeast and southeast, 5° above normal elsewhere. Some precipitation fell over area east of Divide with amounts around 0.10 in. No precipitation west of Divide.

Soil moisture short. Fieldwork: 6.5 days suitable. Winter wheat 90% planted, 90% 1978, 95% normal. Winter wheat condition and germination fair. Corn silage harvested 95%, 95% 1978, 95% average. Dry beans harvested 95%, 80% 1978, 80% average. Potatoes harvested 70%, 75% 1978, 65% average. Sugarbeets harvested 60%, 55% 1978,

45% average. Cattle 65%, sheep 70% moved from summer ranges. Livestock in good condition.

NEBRASKA: Temperatures about 8° below normal over extreme east to a little over normal Panhandle. Precipitation none except few sprinkles in Panhandle.

Corn maturity over 95%, year ago 100%, normal 100%; harvest 20% complete, year ago 35%, 30% normal. Sorghum over 95% ripe, year ago 100%, normal 100%; harvest 35% complete, year ago 50%; normal 50%. Soybean harvest 85% complete, year ago 65%, 50% normal. Wheat condition good 48% to poor. Diesel 100% adequate. Gasoline 95% adequate; 5% tight. LP gas 5% surplus; 95% adequate. Fieldwork: 7.0 days suitable.

NEVADA: Warm, dry weather. Some showers extreme west end of period. Average temperatures varied from 3 to 14° above normal. Extremes: 98 and 19°.

Good progress potato and alfalfa seed harvests. Dry weather also aided winter grain seeding operations. Mild weather easy on livestock.

NEW ENGLAND: Below normal temperatures. Fast moving disturbance 9th brought showers to south and as much as 7.00 in. snow to north. Low moving northeastward 10th brought new records for earliest measurable snowfall in south. Rain in most areas 12th; gradual clearing weekend.

NEW JERSEY: Temperatures averaged 10 to 12° below normal. Extremes: 29 and 73°. Rainfall averaged 1.25 in. north, 1.99 in. central, and 2.30 in. south. Snow statewide 10th. Soil moisture in percent of field capacity, 99% north, 99% central, 98% south. Soil temperature averaged 50° north, 53° central and south.

Fieldwork: 1.5 days suitable. Fall vegetables moving to market. Irish potato harvest nearing completion. Sweetpotato digging advancing. Apple harvest over 75% complete. Cranberry harvest continued. Corn and soybean harvest will resume as field conditions permit. Grain planting continued as fields harvested.

NEW MEXICO: Hot 8th turning considerably cooler on 9th. Warming at midweek then some cooling late week. No rain except few light showers western mountains and central 14th. Light freezes north but none south.

Open weather permitted unhampered field activity, but cool night temperatures slowing crop advancement. Crops good condition but late. Cotton picking very slow, only 55% open bolls south. Haying declining seasonally. Harvest grain sorghum slow, 5%, 15% last year, 40% 1977. Corn harvest progressed seasonally. Fall lettuce cutting full swing. Pecans good condition, sized and filled well, starting to open. Ranges and livestock good.

NEW YORK: Temperatures averaged 5 to 15° below normal. Frost widespread. Snow in north country, rainfall elsewhere.

Poor fieldwork conditions. Corn silage 65% complete, 80% 1978. Grain corn 10% in, 20% 1978. Third cutting alfalfa no progress, still near 80%, 85% 1978. Onion, snap bean, lettuce harvests in late stages. Cabbage harvest for storage continues, condition good. Potato harvest variable, conditions wet Upstate and on Long Island. McIntosh and Delicious apple harvest complete, late variety harvests continued. Concord grapes 70% harvested.

NORTH CAROLINA: Temperatures averaged 5° sub-normal. Precipitation 0.25 to 0.50 in. Some isolated areas 1.00 in.

Fieldwork: 3.8 days suitable. Soil moisture adequate to surplus. Condition of soybeans and pasture fair to mostly good; peanuts and vegetables mostly fair to good; cotton, fair to good. Harvested: Burley tobacco virtually complete, peanuts dug 30%, 1978 77%, average 60%; peanuts threshed 16%, 1978 65%, average 52%; sweetpotatoes 66%, 1978 67%, average 64%; soybeans 3%, 1978 6%, average 6%; corn for grain 73%, 1978 84%, average 77%; apples 60%, 1978 88%, average 81%; sorghum grain 54%, 1978 64%, average 60%; cotton 14%, 1978 21%, average 18%. Planted: Wheat 12%, 1978 20%. Phenological stages: Cotton open boll 76%; soybeans pod set 97%; soybeans leaf drop 29%.

NORTH DAKOTA: Minimums: low 20's west, teens central and east. All but southwest had at least three nights of freezing temperatures. Temperatures averaged near normal west and up to 7° below normal east. Extremes: 77° southwest and northwest to 11° southeast. Light rain on 8th and 9th and again on 11th and 12th. Amounts averaged 0.09 in., maximum 0.20 in. southwest.

Cool, damp weather delayed sunflower harvest. Sub-freezing temperatures beneficial for drying sunflower plants in areas awaiting hard frost. Rapid progress expected this week for sunflower, corn, soybeans if good weather prevails. Sunflower 21% combined, last year 49%, average 44%. Soil moisture short. Potato and dry bean harvest being finished. Potato 97% dug, last year 91%, average 89%. Cattle and hay being moved to winter quarters due to poor pasture condition.

OHIO: Cold, damp weather. Temperatures averaged 10° below normal. Extremes: 69° south and 27° southwest. Precipitation 0.25 in. northwest; 0.50 to 2.00 in. elsewhere.

Fall harvest continued to fall behind normal. Wheat seeding has to wait on fields of soybeans to be combined. Soil moisture adequate for fall seeding. Few wheat fields indicate drowned spots in low ground, most acreage showing a yellowing color. Apple harvest making satisfactory progress. Corn harvested 15%, 25% 1978, 20% average. Soybeans harvested 20%, 45% 1978, 50% average. Corn silage harvested 80%, 100% 1978, 95% average. Wheat planted 40%, 70% 1978, 65% average. Wheat emerged 33%. Sugarbeet harvested 5%, 20% 1978, 15% average. Apple harvested 65%, 65% 1978. Fieldwork: less than 2 days favorable. Pasture condition very good. Soil moisture surplus.

OKLAHOMA: Temperatures averaged 2 to 4° below normal southeast and 2 to 3° above normal southwest. Temperatures averaged at or near normal elsewhere. No precipitation except 0.27 in. southwest.

Dry weather put late season crops under stress with soybeans and peanuts affected most. Wheat planted 70%, 80% 1978 and average; up to stand 30%, 35% 1978, 40% average. Sorghum mature 95%, 85% 1978 and 85% average; harvested 30%, 25% 1978, 30% average. Cotton open bolls 85%, 80% 1978, 60% average; harvested 5%, 0% 1978, 5% average. Fieldwork: 6.6 days suitable.

OREGON: Dry, warm weather; mostly 6 to 12° above normal till weekend when cooler weather and rains in varying amounts.

Soil moisture short. Winter wheat 58% planted, 28% emerged. Seedbed preparation continuing; spraying of grass seed fields slowed by weather. Sugarbeet harvest started. Strawberry fields dry, irrigation needed. Post-harvest work continued in caneberries. Apple harvest continuing. Cranberry harvest underway. Filbert harvest nearly over; walnuts to start soon. Sweet corn, beets,

carrots being harvested. Onions mostly finished. Potato harvest in full swing. Livestock condition fair to mostly good. Range and pasture condition poor to good. Fall pasture and range growth retarded due to moisture shortage. Cattle moving from summer ranges to fall ranges. Some concern about hay supplies.

PENNSYLVANIA: Temperatures 6 to 12° below normal. Mild beginning when maxima in 50's and 60's; 10 to 15° lower remainder of week. Almost daily precipitation totaled from 3.00 in. along Lake Erie to less than 0.25 in. central with 1.00 to 2.00 in. along south border areas. Record snowfall for so early in season at Philadelphia 10th when 2 in. recorded.

Fieldwork: 2 days suitable. Soil moisture surplus to adequate. Activities: Haymaking; fall plowing; harvest of potatoes, corn, soybeans, fruits and vegetables and ensilage corn; silo filling; seeding small grains. Potatoes 86% dug, last year 84%. Corn 25% dented, equal to last year; 66% mature, last year 59%, normal 61%; 6% harvested, last year 14%, normal 11%. Fall plowing 88%, last year 90%. Wheat sown 83%, last year 80%, normal 72%. Barley sown virtually complete, equal to last year. Hay quality mostly poor to fair. Feed from pastures average to above.

PUERTO RICO: Island average rainfall 1.38 in. or 0.45 in. below normal. Temperatures averaged about 81° on coasts and 75° interior. Extremes: 93 and 59°.

SOUTH CAROLINA: Temperatures below normal except brief near-normal conditions at first. Lowest reading 27° with scattered frost in mountains. Light rainfall as scattered showers near midweek.

Soil moisture adequate. Fieldwork: 5 days available. Corn harvest 87%, average 88%. Cotton open bolls 95%; crop condition generally fair; picking 26%, 57% last year, 30% average. Soybean condition fair to good; leaves turning 65%, 89% last year, 80% average; shedding 31%, 64% year ago; 13% mature, 17% last year, 16% average; harvested 1%, 4% 1978. Peanuts 46% harvested, 71% last year. Fall snap beans 41% harvested; cucumbers 21%, both poor to fair condition.

SOUTH DAKOTA: Average temperatures generally below normal; eastern portion had the largest departures from normal. Extremes: 87 and 10°. Rainfall light.

Silage cutting virtually complete. Soybean and sunflower harvests continued at rapid pace; other harvest gaining. Farm activities include hauling hay, moving cattle to fields or other winter pastures, fall tilling, row crop harvest. Topsoil moisture short except southeast corner, where adequate. Transportation and storage problems continued. Greenbug and grasshopper populations persist; spraying fields. Fieldwork: 6 days suitable. Fall sown grains in fair condition and need moisture. Farm fuel supplies mostly adequate. Corn for grain 24% harvested, 1978 27%, average 34%. Soybeans 68% harvested, 1978 56%, average 57%. Sunflowers 35% harvested, 1978 23%. Grain sorghum 31% harvested, 1978 33%, average 48%. Alfalfa seed 81% harvested, 1978 60%. Winter wheat 100% emerged. Rye 100% emerged.

TENNESSEE: Showers midweek. Amounts averaged less than 0.50 in. west, 0.75 in. east. Temperatures 2 to 10° below normal.

Fieldwork: 3.7 days suitable. Soil moisture adequate. Corn mature 91%, 1978 99%, average 93%; harvested 37%, 1978 55%, average 40%. Cotton open

bolts 52%, 1978 90%, average 73%; harvested 4%, 1978 52%, average 28%. Soybeans mature 25%, 1978 56%, average 45%; harvested 6%, 1978 19%, average 10%. Burley tobacco stripped 24%, 1978 21%, average 24%. Fall plowing completed 68%, 1978 66%, average 72%. Wheat seeded 45%, 1978 50%, average 50%. Oats seeded 68%, 1978 68%, average 73%. Barley seeded 73%, 1978 69%, average 73%. Pastures good condition. Fuel supplies adequate.

TEXAS: High pressure located off Texas Coast coupled with low pressure in Northwest Texas produced dry winds, hot temperatures. Precipitation nearly nil; temperatures near normal.

Dry, hot conditions reduced soil moisture Plains, Cross-Timbers, Blacklands. Moisture short South Central, lower Rio Grande Valley while East Texas, Coast indicate adequate moisture. Seeding of wheat, oats and emergence of fall pastures delayed due to dry conditions. Pasture and range conditions deteriorating, some supplemental feeding. Cotton, corn harvest continued in northern portion, fall land preparation continued statewide. High winds Plains, caused lodging in corn, sorghum. Cotton progressing toward maturity; cool temperatures slowed boll opening. Harvest beginning Low Plains; harvest Blacklands, South Central moving at steady pace. Dry, open weather needed to mature remaining fields. Corn harvest continued High Plains; harvesting problems from lodging, damaged stalks caused by high winds. Sorghum harvest gained momentum Plains; open weather facilitated harvest. Peanut harvest continued, dry conditions made digging difficult. Harvest early varieties virtually complete Cross-Timbers, Blacklands. Sunflowers maturing rapidly; harvest progressing well. Wheat planting hampered by dry weather, which also delayed the emergence of early planted fields. Planting other small grains moving slowly; many producers waiting for needed rainfall. Cotton open bolts 66%; harvested 17%, 24% 1978, 25% average. Sorghum mature 85%; harvested for grain 73%, 78% 1978, 76% average. Wheat planted 65%, 75% 1978, 75% average. Corn harvested 84%, 88% 1978, 81% average. Peanuts harvested 70%, 45% 1978, 55% average. Soybeans harvested 10%, 20% 1978, 21% average. Sugarbeets harvested 8%, 17% 1978, 19% average. Pecans harvested 3%, 0% 1978. Sunflowers harvested 38%, 42% 1978, 36% average. Flax planted 5%, 12% 1978, 3% average. Oats planted 52%, 76% 1978, 70% average.

Lower Rio Grande Valley seedbed preparation, planting cabbage, carrots, lettuce, onions continued. Most vegetables making normal growth and benefited from cooler temperatures. Some cucumbers, bell peppers being harvested in light volume. Small volume sweet corn harvested. Some early oranges harvested and shipped. Fruit continued to size well and change color. Coastal Bend, late cucumbers showing good growth but need moisture. San Antonio-Winter Garden, vegetables making normal growth in response to irrigation. Carrots continued to grow well with planting continuing. Onion sets early growth stages. Cabbage planting nearing completion. Some squash and greens moved to market. East Texas, harvest sweetpotatoes continued. Most areas need rain for fall vegetable growth. North Texas, most fall vegetables benefited by cooler temperatures; need moisture. Some collards, spinach, turnips, beets harvested. Trans-Pecos harvest bell peppers continued. High Plains, harvest vegetables continued before frost comes. Bell pepper harvest almost finished; cantaloup harvest continued. Lettuce harvest started; carrots moving light volume. Pecans continued to split shucks and fall. Windy days caused droppage and broke limbs. Limited volume early variety harvested south and south central.

Range pasture conditions continue to deteriorate from lack moisture. Reduced forage production increased need for supplemental feeding many areas. Cattle movement continued; some herds being thinned. Some areas, stock water getting low. Cattle in good to excellent condition. Goat shearing nearing completion.

UTAH: No precipitation. Average temperatures 4 to 12° above normal.

Soil moisture reserves low. Fieldwork: 7 days suitable. Harvest active with continued dry weather. Winter wheat, fall and winter range feed prospects well below normal. Movement of livestock to market, and fall and winter range continued.

VIRGINIA: Mild weather turned somewhat colder on 10th as season's first snowstorm dumped up to 15 in. snow many locations upper Shenandoah Valley. Cooler weather prevailed over weekend with scattered frost in some locations. Temperature extremes: 83 and 23°. Precipitation heavy, averaging about 1.50 in. occurring almost daily. Snowfall on 10th limited to west and north with considerable damage to trees.

Topsoil moisture mostly surplus. Fieldwork: 1.6 days suitable. Small grain seeding: Wheat 9%, 19% 1978, 26% average; barley 15%, 42% 1978, 50% usual; winter oats 34%, 50% 1978, 53% average. Corn combining 50%, 59% 1978, 52% usual; Tidewater, southeast 80%, 87% 1978. Soybean combining 1%, 5% 1978, 7% average. Peanut digging 25%, 80% 1978, 64% usual; combining 11%, 53% 1978, 38% average. Apples 61% picked, 71% 1978, 72% usual. Eastern Shore sweetpotatoes 50% dug. Southwestern cabbage cut. Flue-cured tobacco sales active. Burley tobacco graded southwest. Farm fuel supplies adequate.

WASHINGTON: West: Temperatures 1 to 3° above normal. Precipitation well below normal. Night and early morning fog.

Harvests of potatoes, pumpkins, squash, carrots, celery, cabbage continued. Sweet corn harvest nearing completion. Silage corn still being harvested and some green chopping continued. Grain planting complete. Cutting of Christmas trees to start soon.

East: Temperatures well above normal. Precipitation below normal. Some rain on 14th. Red Delicious harvest in final stage. Winesap and Rome apple picking starting. Grape harvest well along. Potato harvest nearly complete. Sweet corn harvest well along. Winter wheat planted 85%, last year 79%.

WEST VIRGINIA: Temperatures mixed; low 28°, high 74°. Precipitation above normal.

Fieldwork: 1.1 days suitable. Soil moisture adequate to surplus. Main farm activities: Tending livestock, miscellaneous chores. No progress on seeding small grains; wheat 28%, 44% average, 60% 1978; barley 34%, 61% average, 55% 1978. Harvesting progress: Corn for grain 27%, 35% average; 2d hay 86%, 94% average, 100% 1978; 3d hay 53%, 76% average, 84% 1978; potatoes 88%, 90% average, 93% 1978; tobacco 96%, 96% average, 100% 1978. Livestock good shape. All crops good to fair. Fuel supplies adequate. Pastures good.

WISCONSIN: Temperatures averaged 10° below normal. Highs in 50's and 60's 8th but fell to 40's and 30's through 13th. Overnight lows below freezing some areas early week and hard frost statewide morning 14th. Precipitation light in scattered showers, averaging less than 0.33 in. all areas.

Snow fell north, with several inches near Lake Superior.

Fieldwork: 5 days suitable. Harvesting of soybeans and corn for grain slow as farmers waiting for moisture content to drop more. Corn for grain 6% harvested, 1978 10%, normal 15%. Some high moisture ear corn going into silos. Silo filling 65% done, 1978 70%, normal 95%. Soybeans 10% combined, 1978 6%, normal 15%. Few fields of sunflowers harvested. Fall plowing 17% done, 1978 13%, normal 20%. More moisture needed for fall plowing and growth of winter wheat. Haying done except for occasional greenchopping. Pastures normal for mid-October. Tobacco curing well. Most potatoes and vegetables harvested. Cranberry and

apple harvests continuing. Topsoil moisture supplies short to adequate.

WYOMING: Temperatures above normal. Maximum readings in 70's and 80's. Minimums mainly in 20's and lower 30's. Precipitation below normal.

Soil moisture short. Fieldwork: 7 days suitable. Winter wheat 95% emerged, fair to good condition. Additional moisture needed for optimum development. Acreage harvested: Potatoes 84%; sugarbeets 38%; dry beans 90%; corn for grain 22%; corn for silage 95%. Livestock sold or delivered: Yearlings 53%; calves 42%; lambs 57%. Marketing proceeding at slower pace than last year.

CROP PRODUCTION HIGHLIGHTS

CORN production is forecast at a record high 7.39 billion bushels, 2 percent above the September 1 forecast and 4 percent more than the previous record set last year.

SORGHUM GRAIN production is forecast at 817 million bushels, up 9 percent from last year.

FEED GRAIN production (corn, sorghum, oats and barley combined) is expected to total a record high 224 million metric tons, 3 percent more than last year.

SOYBEAN production is forecast at a record high 2.21 billion bushels, 2 percent above the September 1 forecast and 18 percent larger than the 1978 crop.

OILSEED production (soybeans, cottonseed, peanuts, flaxseed and sunflower combined) is expected to total 71.0 million metric tons, up 21 percent from last year.

FOOD GRAIN production (wheat, rye and rice combined) is forecast at 64.4 million metric tons, 16 percent above 1978.

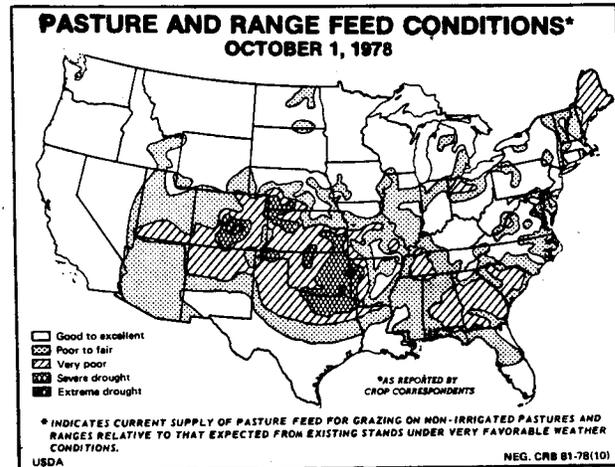
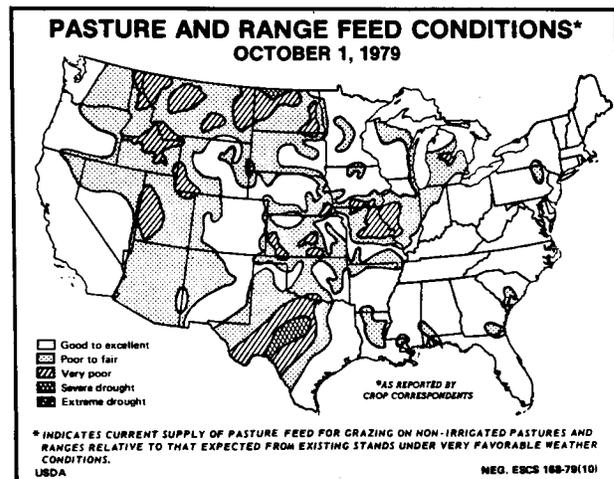
ALL COTTON production is forecast at 14.4 million bales, 32 percent above 1978 and 1 percent more than the September 1 forecast.

SUGAR CROPS--Sugarbeet production at 22.3 million tons, is forecast 13 percent below the 1978 production. Sugarcane production is forecast at 27.1 million tons, up 5 percent from 1978.

ORANGE production is forecast at a record high 256 million boxes, 22 percent above last season.

FALL POTATO production is forecast at 300 million cwt, 7 percent below the record high 1978 crop.

Crop Reporting Board, ESCS, USDA



International Weather and Crop Summary

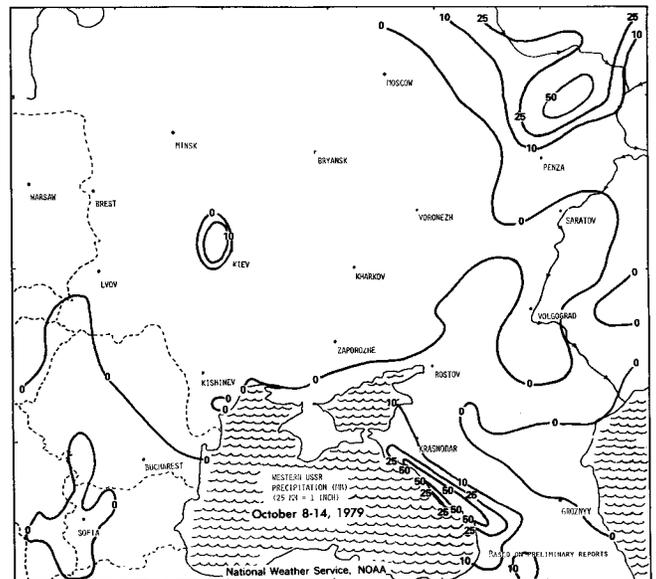
October 8 - 14

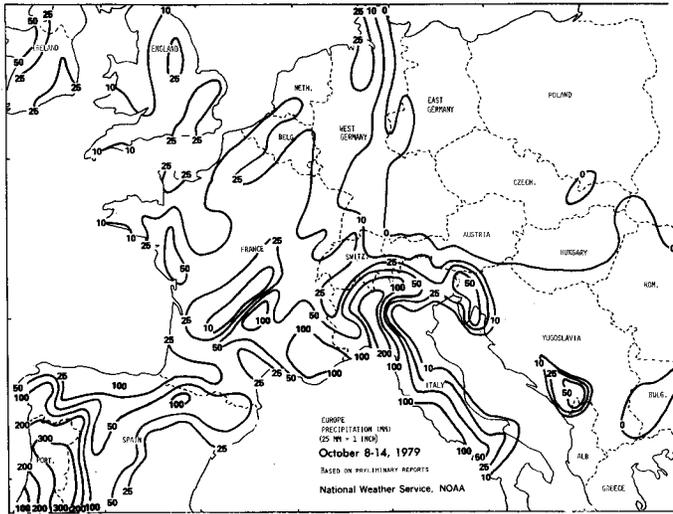
HIGHLIGHTS:

- USSR. Winter grains sown...continued dry conditions in western Ukraine.
- EUROPE. Harvesting maize, sowing winter grains*...excessively heavy rains in Italy, Spain, and Portugal.
- CHINA. Late rice near harvest*...favorable harvest weather. Sowing winter grains*...good soil moisture.
- INDIA. Rice turning color in the south*...decreased rainfall. Wheat-sowing season in the north*...continued rainless.
- AUSTRALIA. Winter grains turning color...light rainfall in some areas.
- BRAZIL. Planting of soybeans beginning*...good soil moisture.
- ARGENTINA. Winter grains heading*...adequate soil moisture.

*Based on normal crop calendar information.

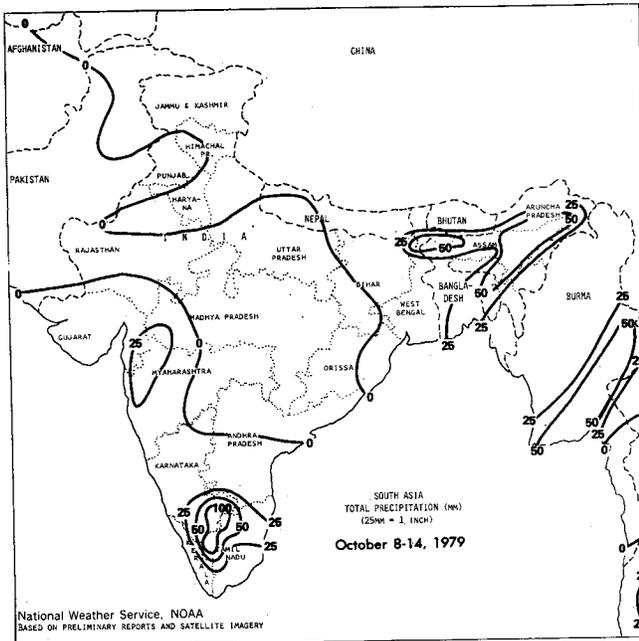
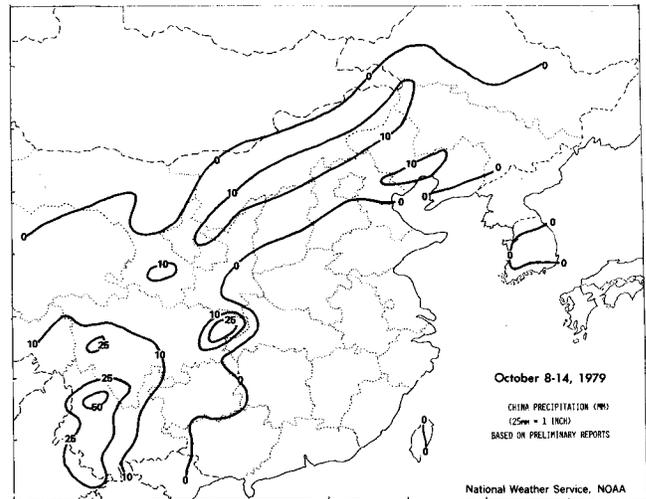
USSR. Most of the Ukraine remained rainless, continuing a dry spell that has, perhaps, become serious for germination of winter grains in some areas. Much of the western Ukraine received less than half of normal precipitation in September, and some extensive areas saw only a quarter of the norm. Temperatures held near normal during September planting, but cooler weather in the first week of October brought frost southward into many areas. This is normal in October, and conditions have warmed again since, but more warmth and moisture will be needed in the western Ukraine to bring the grains up to stand. Excellent conditions have been reported in the eastern Ukraine. The spring grain harvest in the New Lands has essentially finished; above normal September precipitation in nearly all areas ranked this 25th harvest season as one of the most difficult ever, but earlier rains assured a bountiful harvest.



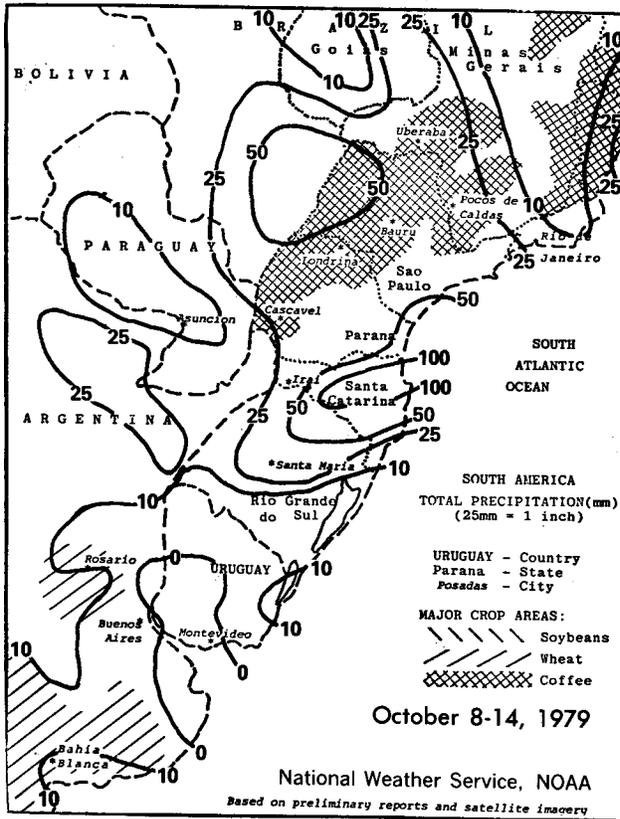


EUROPE. Precipitation in Europe fell in a pattern similar to last week's but with increased totals in many areas. These two relatively wet weeks erased some dry areas that had developed during September in France and the Iberian Peninsula. In northern France, this precipitation hampered maize harvest but benefited winter grains. Extremely heavy rain falling on already-wet soils in northern Italy and the Portugal/Spain border area must have damaged early-sown grains. Very little precipitation fell in eastern Europe this week. Most northern areas had received sufficient amounts in September to maintain adequate growing conditions for new-sown grains, but some dry pockets have developed in the southern portion. These are extensions of the rain-deficient area in the western Ukraine.

CHINA. The southeastern third of the country remained dry for a second consecutive week, allowing harvest to continue after a very rainy September in some areas. Precipitation totals for that month ranged above 300 mm over some major crop areas where normally about 100 mm falls. No damage to crops (most of which should have been nearly ready for harvest) has been reported, so the rains must be regarded as a somewhat detrimental ending to an abundantly-wet crop season. Southern coastal areas also received above-normal rainfall in September. These probably benefited the second rice crop there, which is near harvest now.

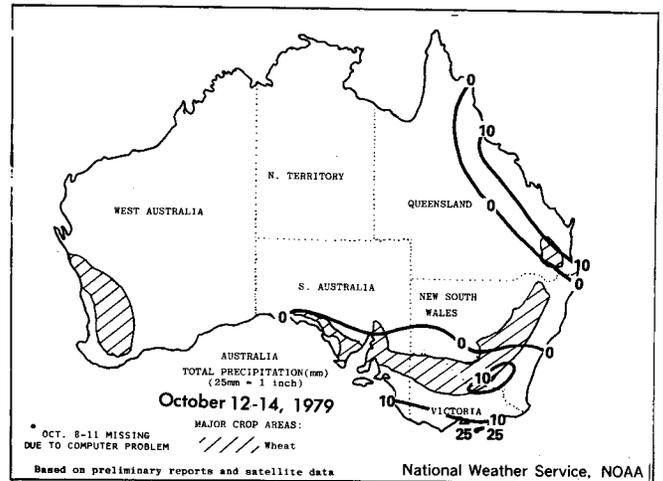


INDIA. Monsoon activity retreated further eastward and southward this week, and most agricultural areas received little or no rainfall. This lull is of little consequence for most areas that normally have rain in October. However, less than 10 mm of rain fell over much of northwestern India during the entire month of September. Normally that area (including the western half of Uttar Pradesh) receives 100 to 200 mm for the month, so hopes of crop-saving rains were crushed. Furthermore, winter grains cannot be successfully sown until substantial rainfall occurs, and that is not likely until December.

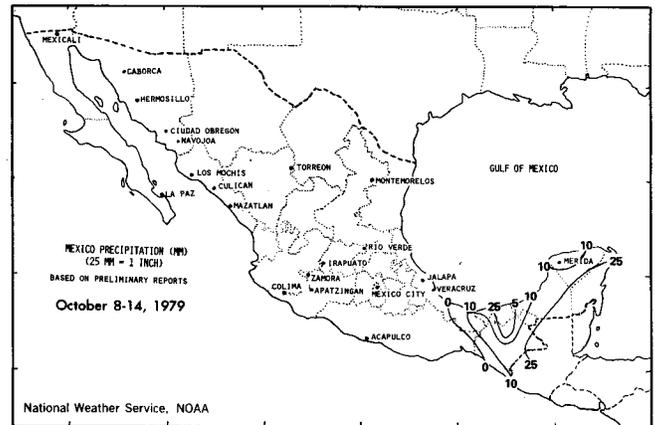


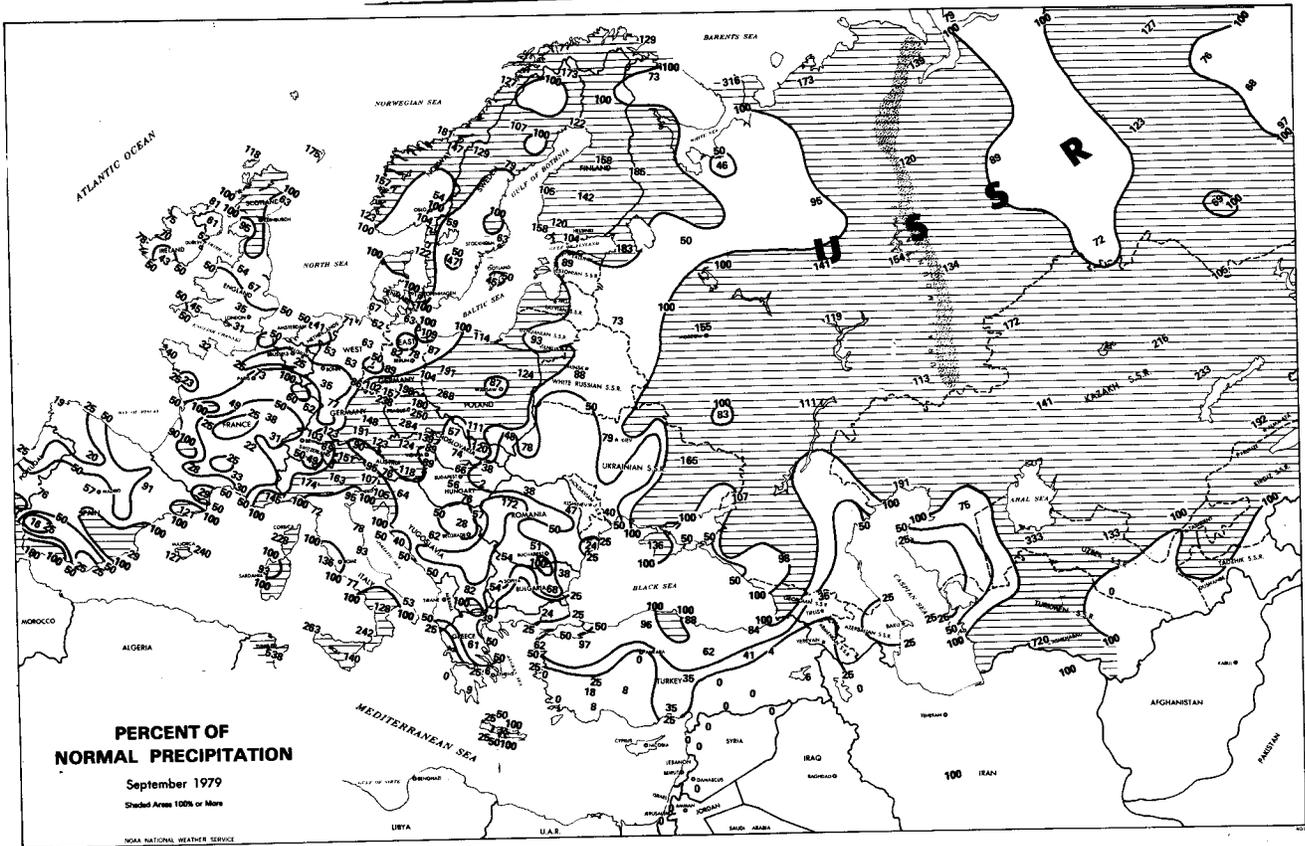
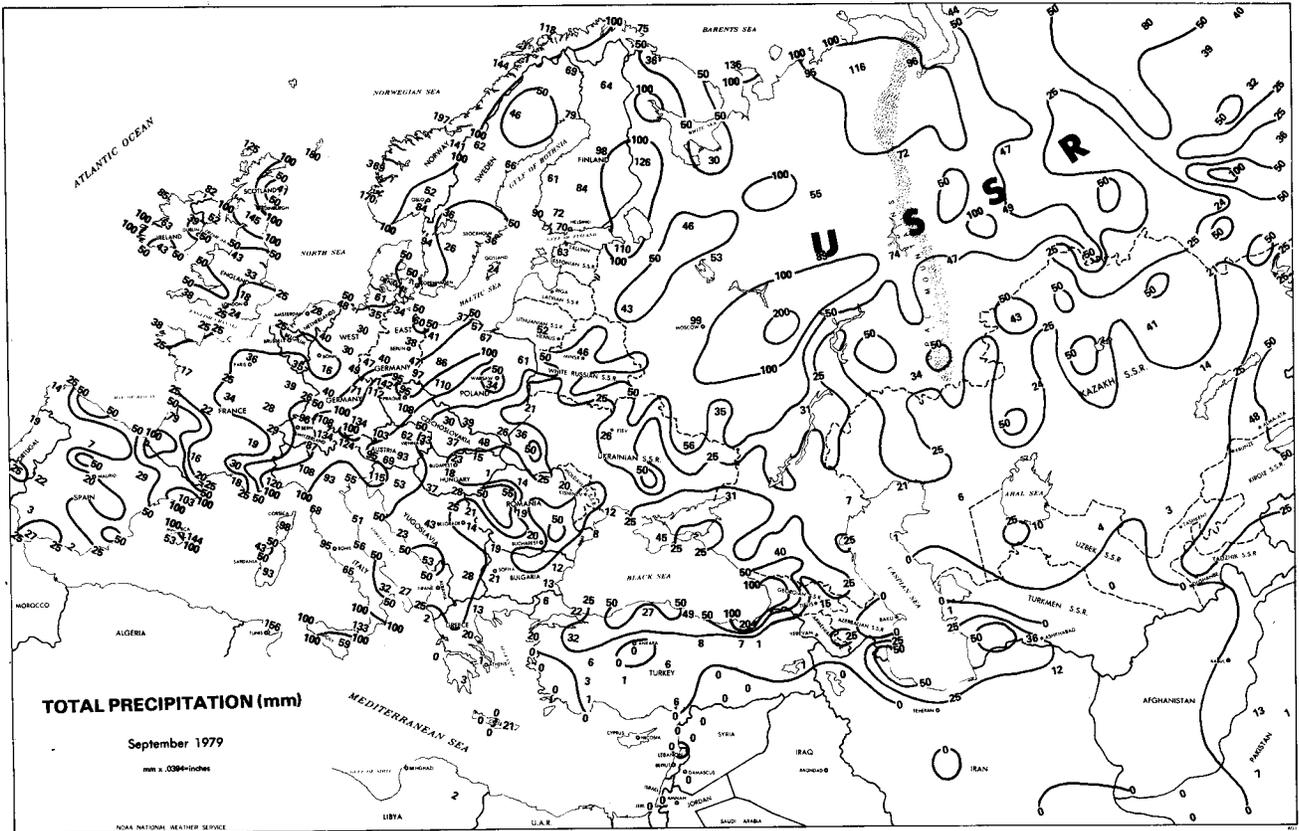
SOUTH AMERICA. The heavy rains that have plagued the maturing wheat crop in southern Brazil moved further to the northeast again this week, but continued to hinder the crop in Santa Catarina and northern Rio Grande do Sul. Even the southern portion of the wheat belt received substantial rainfall. In Parana, moderate precipitation maintained favorable growing conditions. Planting should be in progress, and even subsoil moisture is abundant due to above-normal rainfall in September. This rain has also benefited coffee groves, which should now be in flower. In Argentina, only scattered moderate rainfall occurred in crop areas, where September totals held slightly less than normal. Overall, however, soil moisture should be adequate for crop needs.

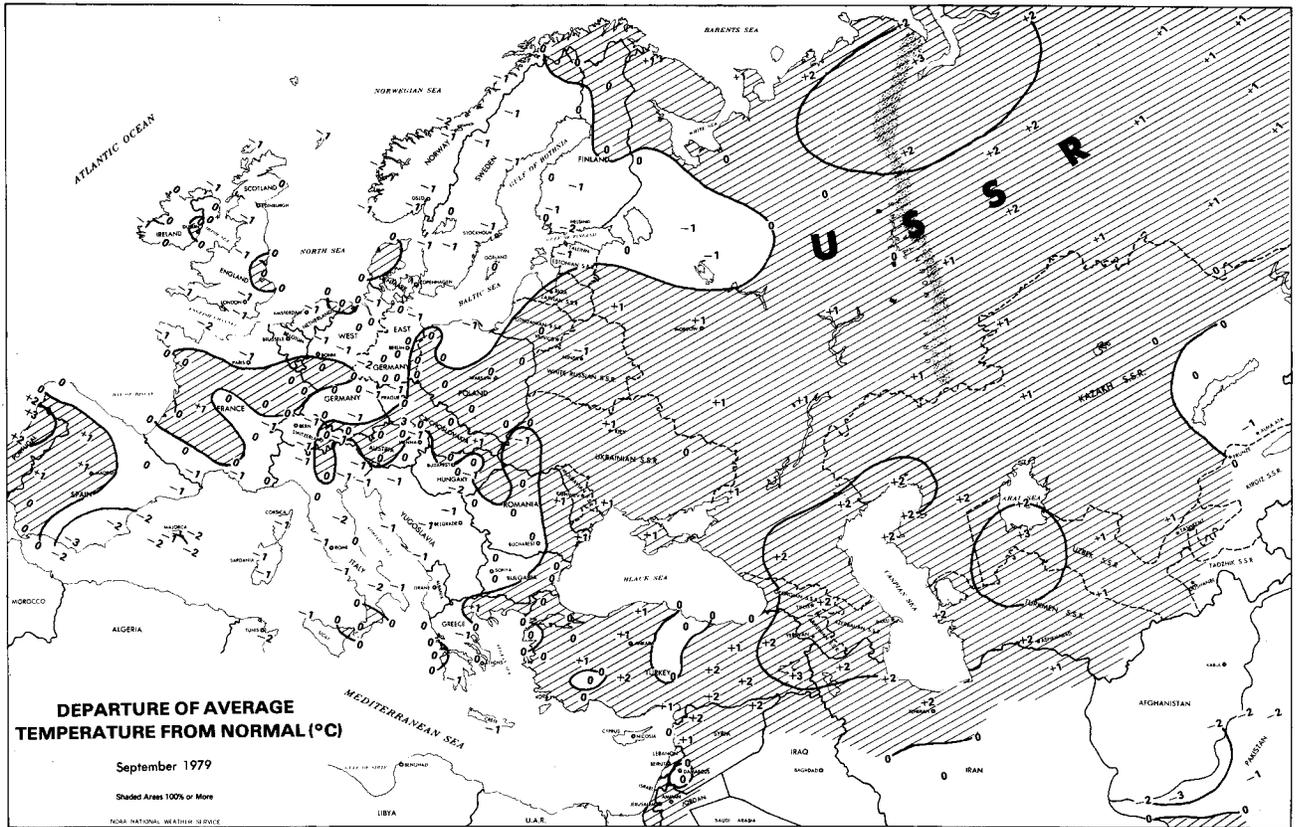
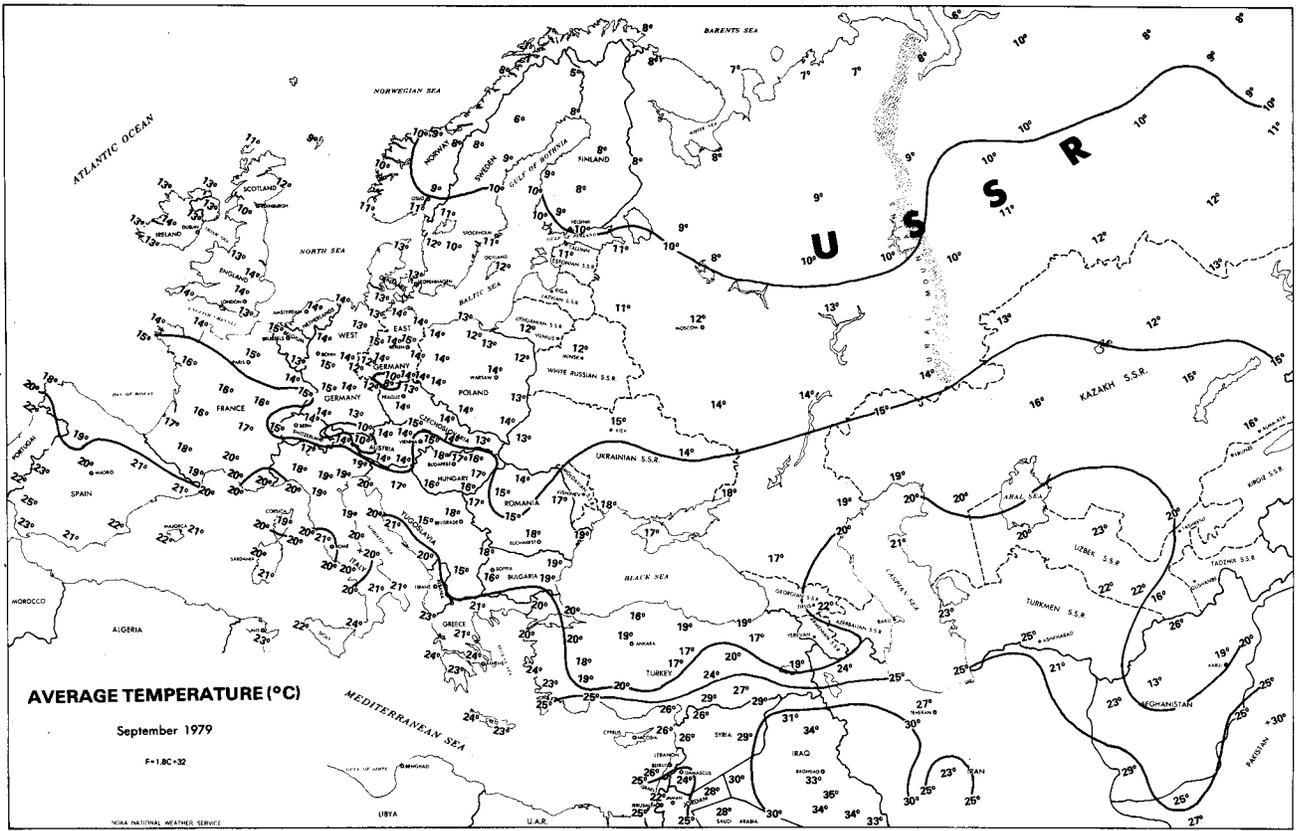
AUSTRALIA. Rainfall continued in grain areas of southeastern Australia, though data were again incomplete. Above-normal rains in September have assured good yields in most areas. West Australia remained rainless last week, and dry weather which started in mid-August has probably cut yields there. The grain area of Queensland has received some light rainfall, and one report indicated that it may have helped the crop.

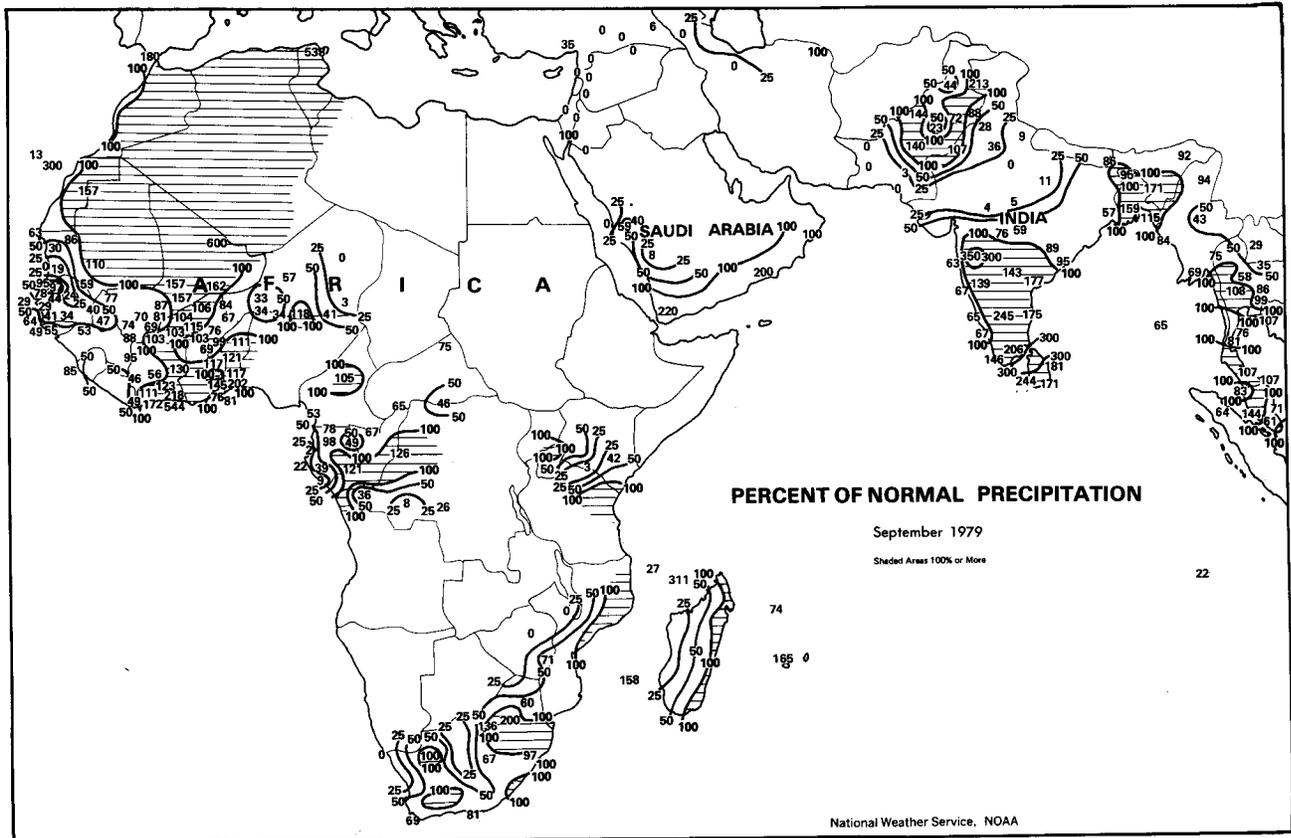
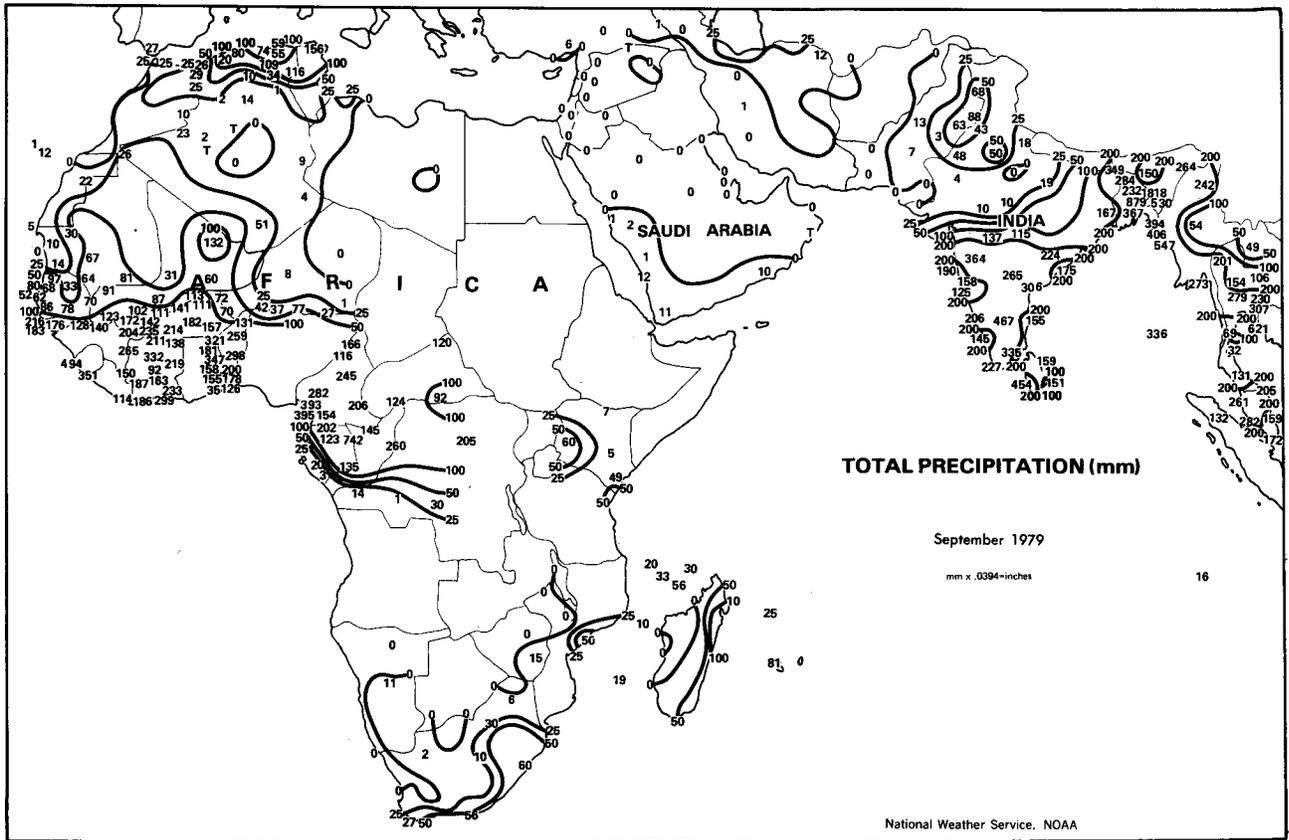


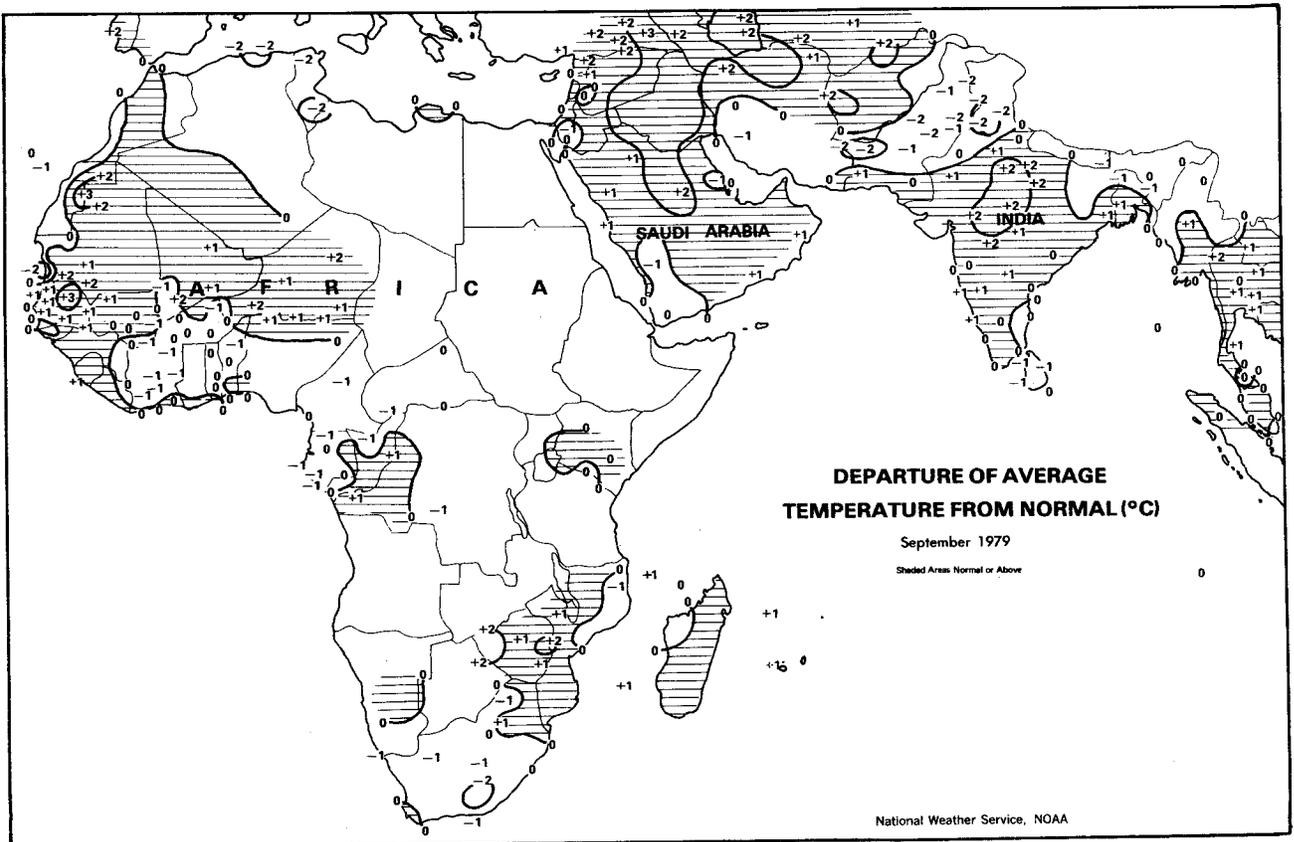
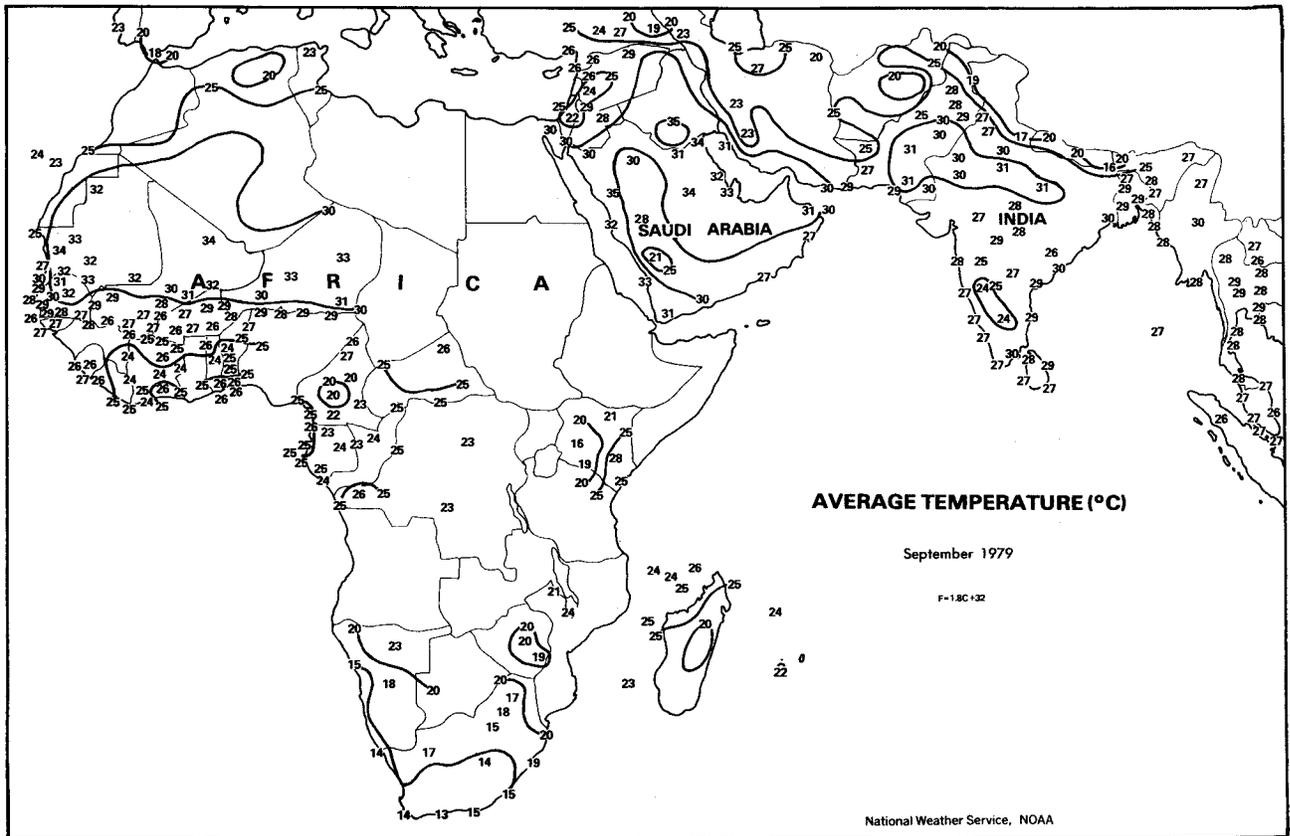
MEXICO. The primary agricultural areas continued sunny, dry, and warm for the third consecutive week. However, irrigation water, stored from August and September rains, should be available in most of the major districts. Soil moisture is becoming short in nonirrigated citrus and vegetable fields. Ideal weather continued for insect and disease control and other field operations. Rainfall was limited to the southeastern corner of the nation. Culiacan's afternoon temperatures averaged 34°C with a relative humidity of 55 percent, while overnight lows were 25°C with a relative humidity of 93 percent.

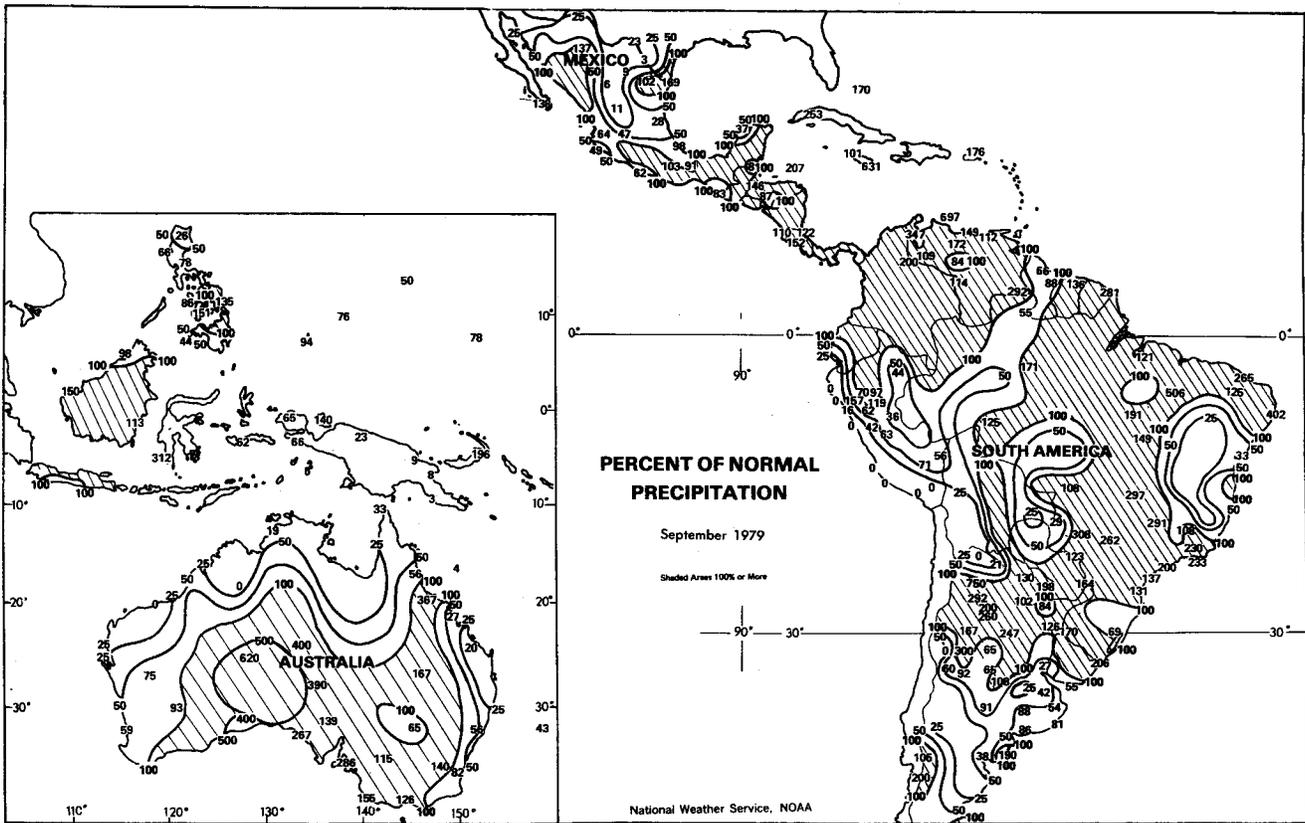
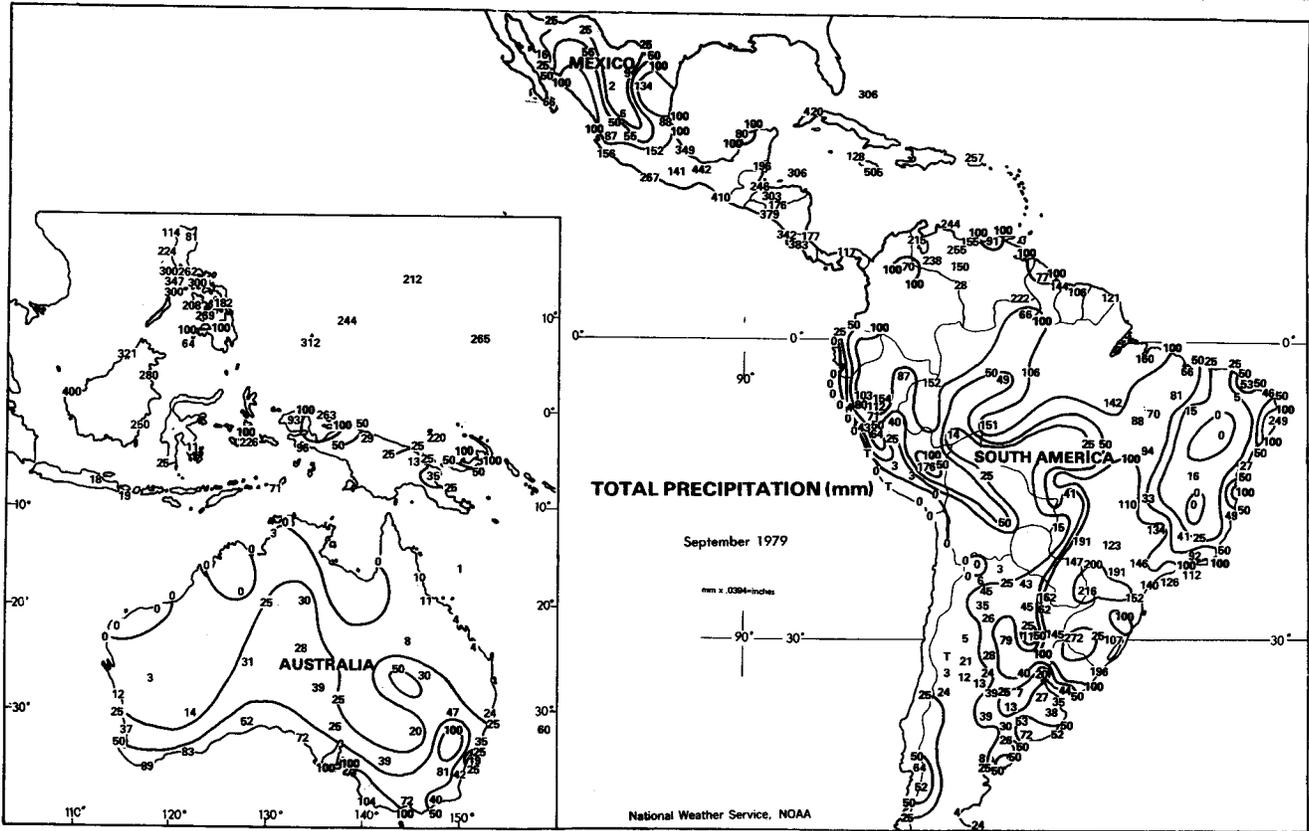


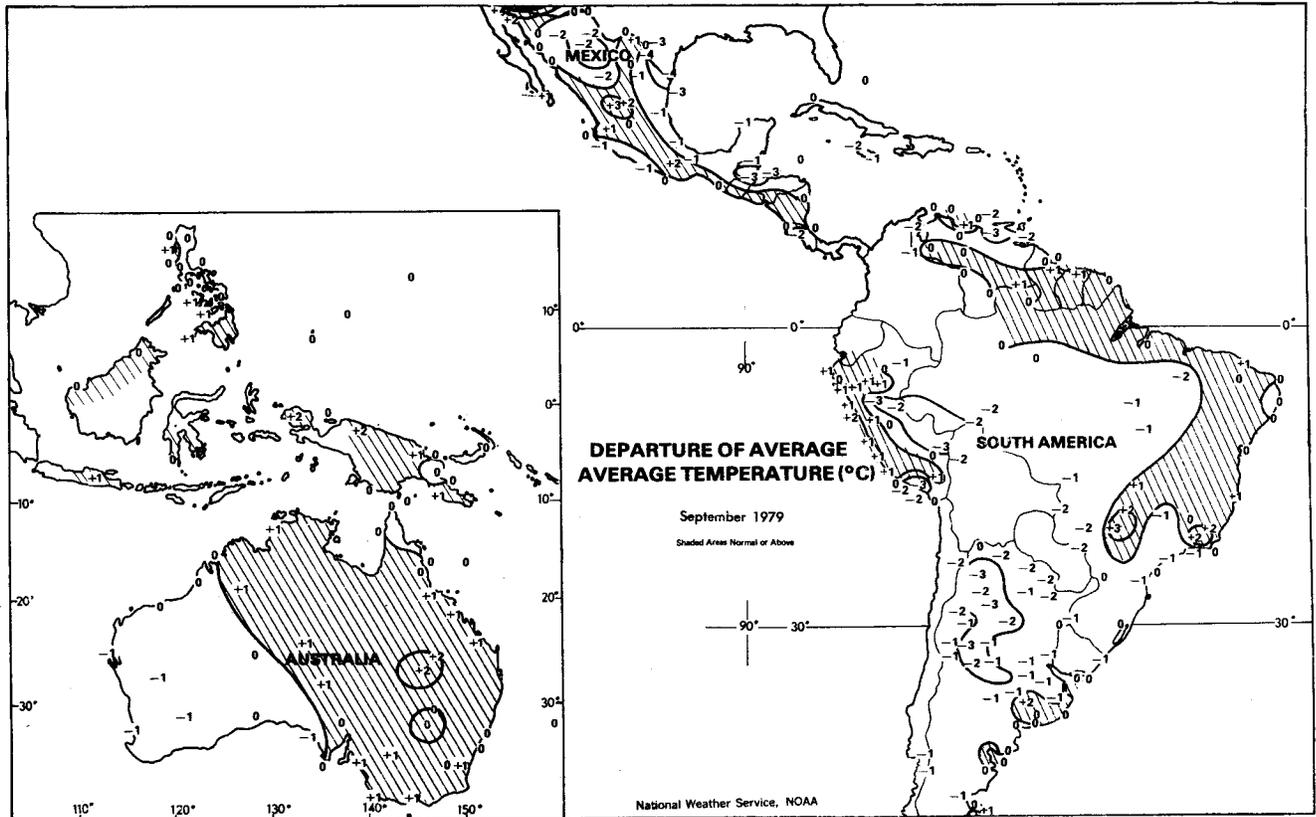
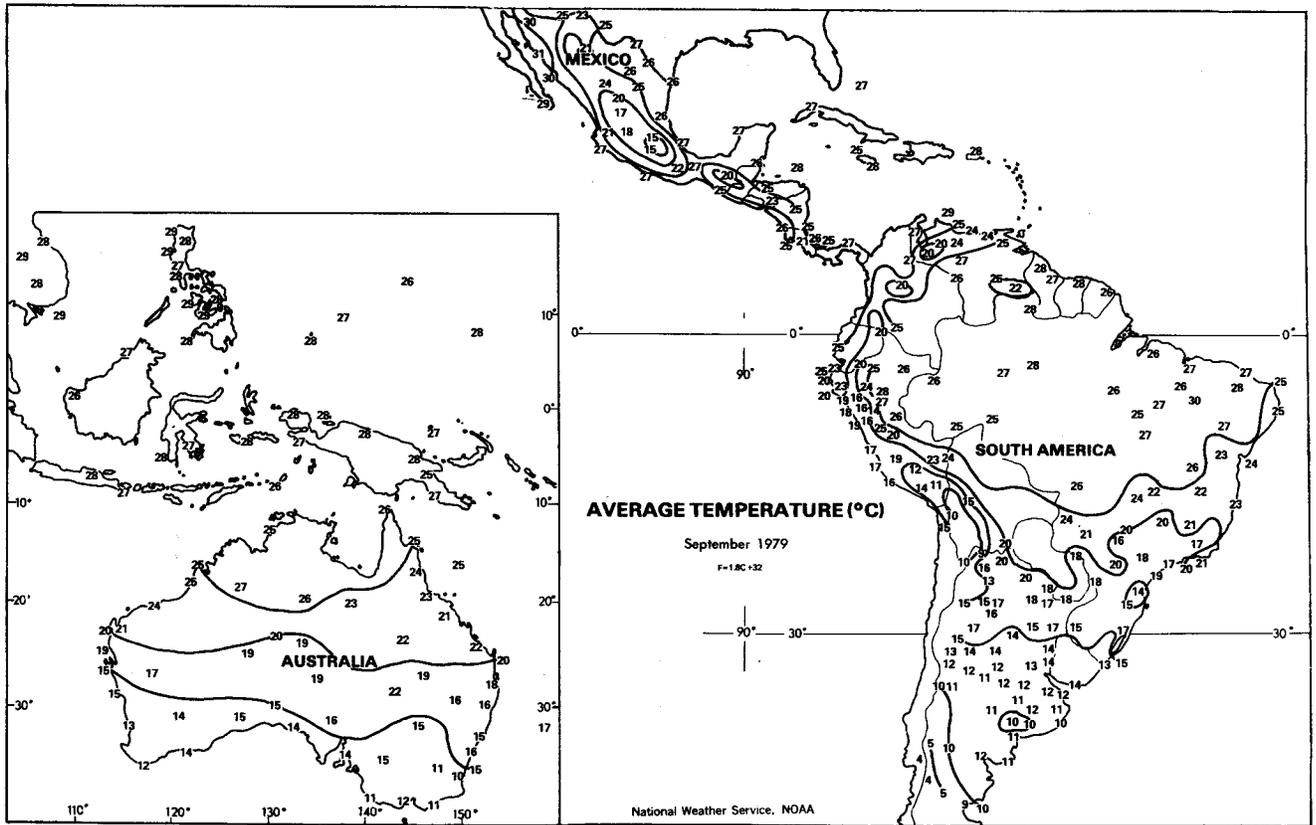




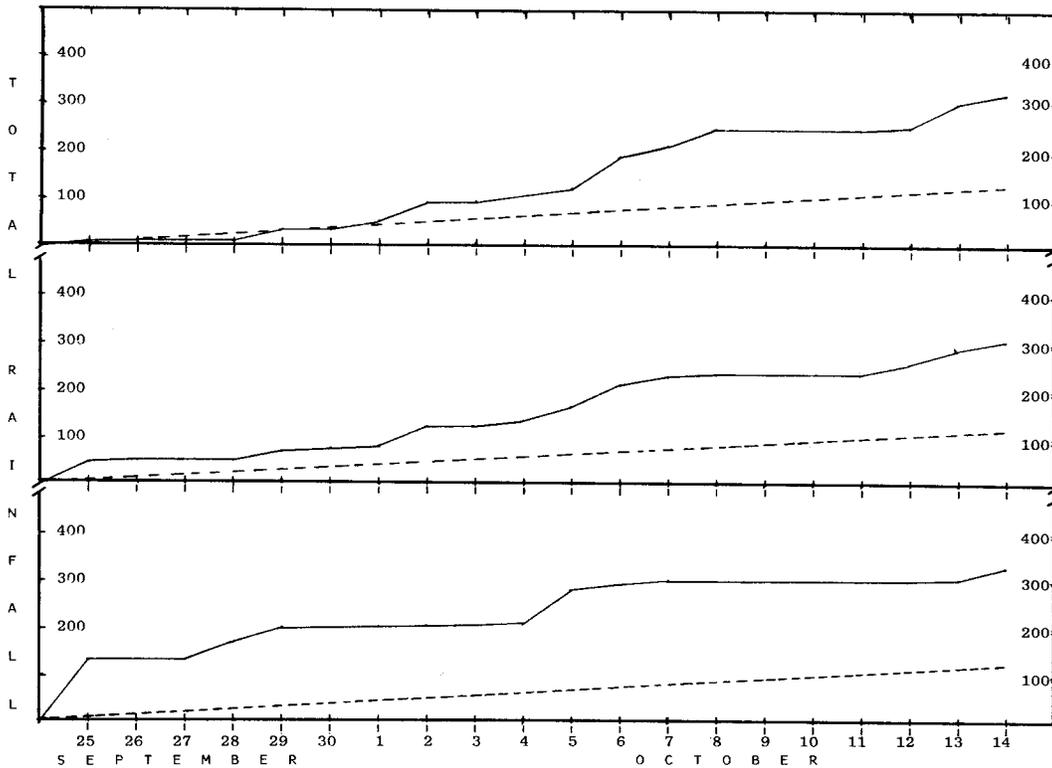
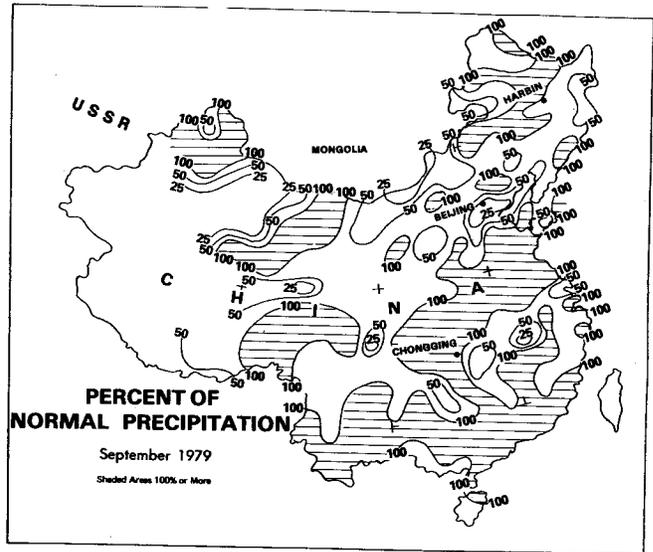
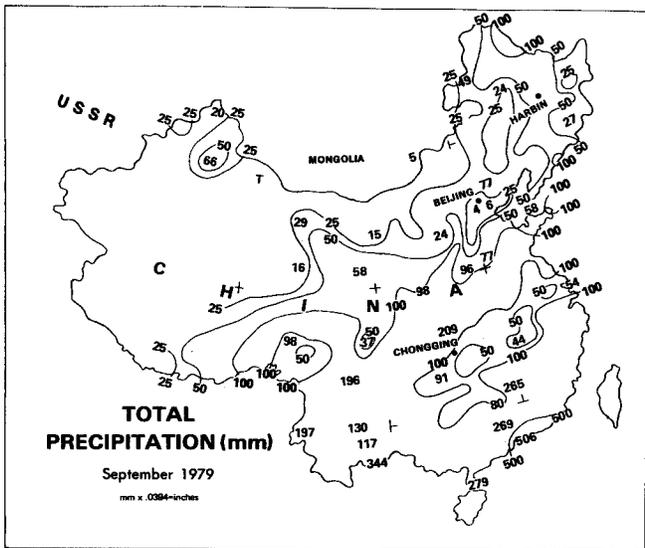








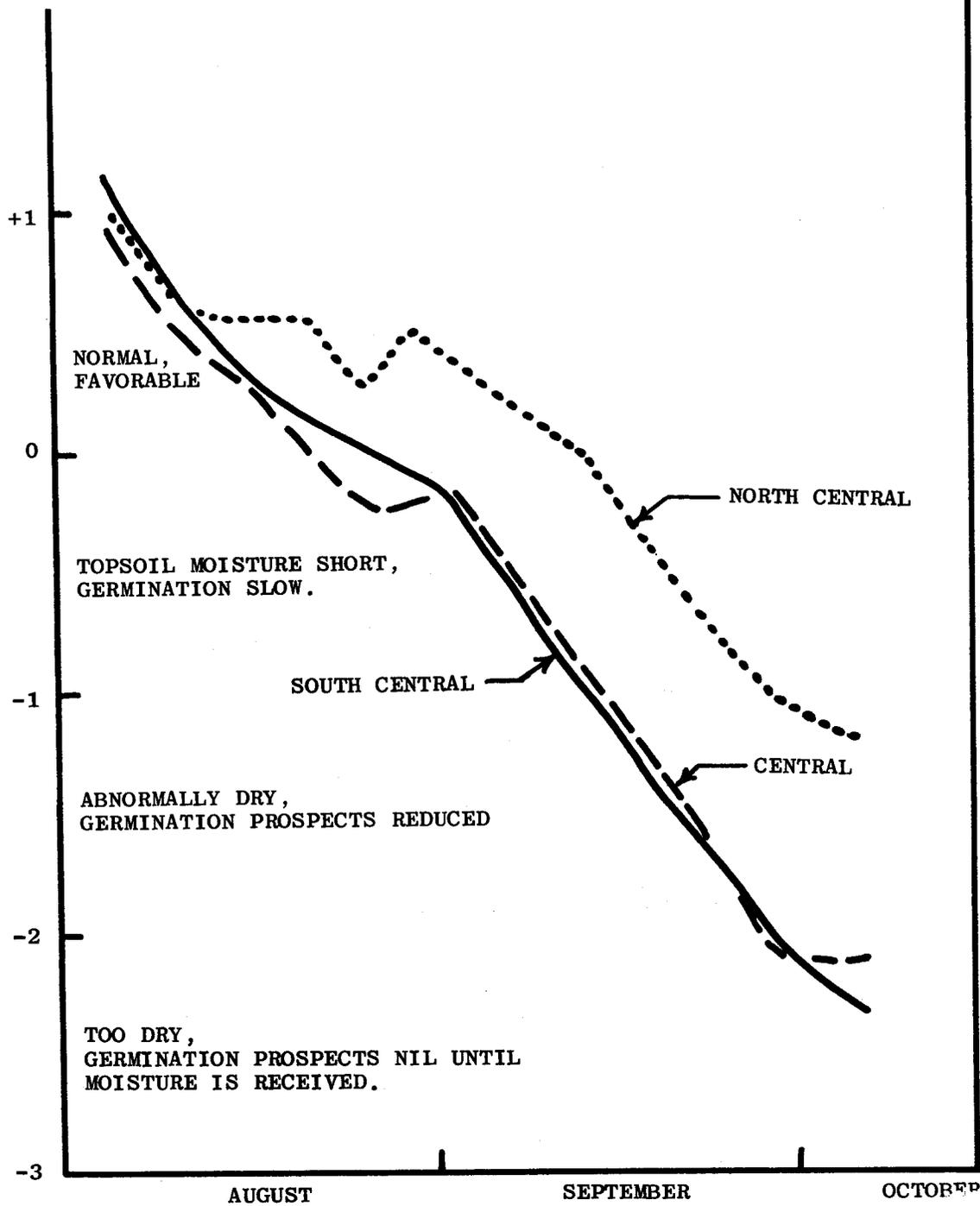
China Precipitation



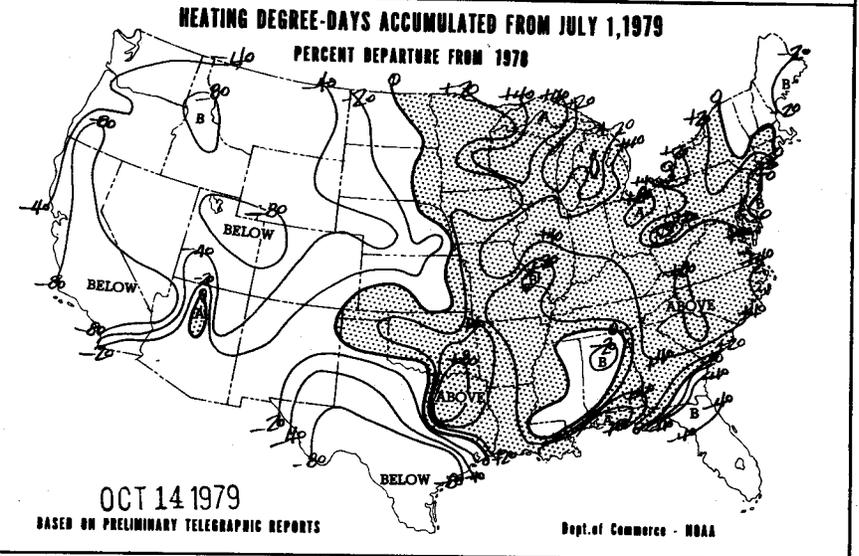
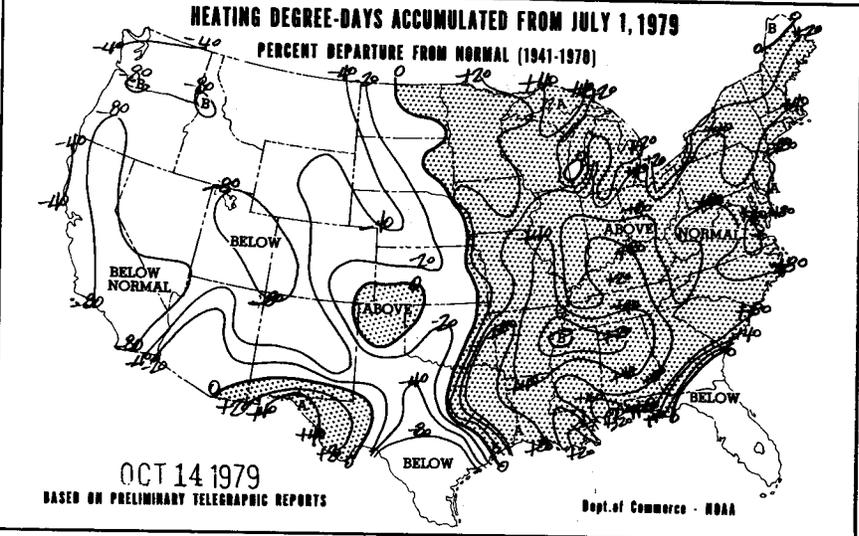
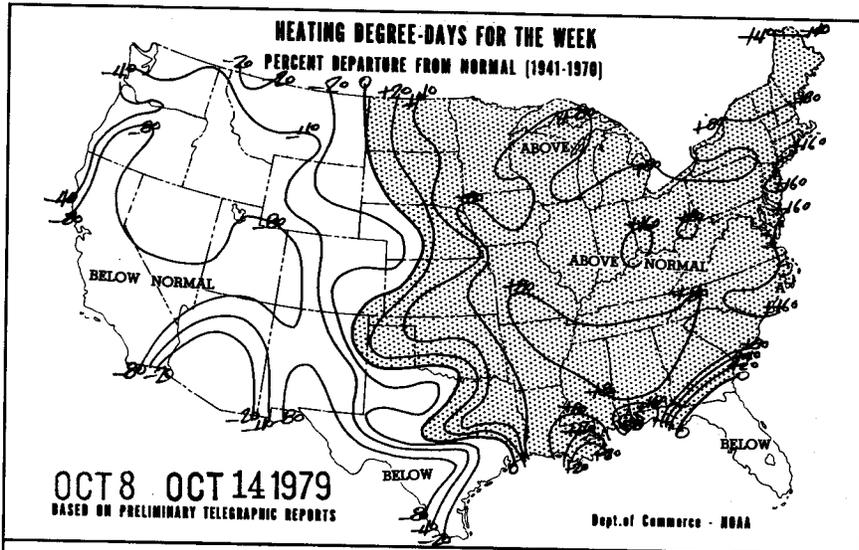
TOTAL RAINFALL (MM) OVER THE PAST THREE WEEKS FOR THREE STATIONS IN THE SOUTHERN BRAZILIAN WHEAT BELT. ACTUAL RAINFALL (————) LONG-TERM NORMAL RAINFALL (-----)

HEAVY RAINS IN BRAZILIAN WHEAT/SOYBEAN AREA. Three weeks of heavy rainfall in Rio Grande do Sul and Santa Catarina have diminished Brazil's previously bright wheat crop outlook. Precipitation totals of 2½ to 3 times normal fell over a broad area where normal conditions are marginally wet for wheat harvest. The crop was just turning color when the rains hit, and extensive lodging can be expected, with attendant problems with quality. On the other hand, the rains maintained good soil moisture for soybean planting in November.

CROP MOISTURE INDEX - KANSAS



DRY CONDITIONS IN KANSAS WHEAT BELT. Rainfall since July has been deficient over much of the Kansas wheat belt. Soil moisture decreased in August and September from slightly above normal to abnormally dry. Virtually no rain has fallen in south central Kansas since the first week of September. Winter wheat seeding began on schedule in early September but germination prospects have become quite slim.



HEATING DEGREE DAYS (BASE 65°) FOR WEEK ENDING OCT. 14, 1979.

STATES AND STATIONS	WEEKLY		SEASONAL ACCUMULATION +			STATES AND STATIONS	WEEKLY		SEASONAL ACCUMULATION +			STATES AND STATIONS	WEEKLY		SEASONAL ACCUMULATION +		
	TOTAL	DEPARTURE*	TOTAL	DEPARTURE*	DEPARTURE FROM 1978-79		TOTAL	DEPARTURE*	TOTAL	DEPARTURE*	DEPARTURE FROM 1978-79		TOTAL	DEPARTURE*	TOTAL	DEPARTURE*	DEPARTURE FROM 1978-79
ALA. BIRMINGHAM...	34	13	51	1	20	MAINE CARIBOU...	50	73	105	105	YOUNGSTOWN...	152	80	440	159	154	
MOBILE...	24	10	28	1	1	PORTLAND...	69	57	107	100	OKLA. OKLAHOMA CITY...	52	10	10	1	1	
HONTGOMERY...	2	0	2	0	0	MD. BALTIMORE...	103	58	56	30	TULSA...	52	10	41	1	1	
ARIZ. FLAGSTAFF...	8	2	540	4	76	MASS. BOSTON...	43	81	261	75	47	OREG. ASTORIA...	4	4	3	3	3
PHOENIX...	2	0	0	0	0	MICH. ALPENA...	7	67	61	4	4	BURNS...	4	4	1	1	1
TUCSON...	2	0	3	0	28	DETROIT...	17	152	152	152	152	MEDFORD...	1	1	1	1	1
HINSLON...	2	0	3	0	28	FLINT...	17	152	152	152	152	PEWLETON...	1	1	1	1	1
YUMA...	2	0	3	0	28	GRAND RAPIDS...	17	152	152	152	152	PORTLAND...	1	1	1	1	1
ARK. FORT SMITH...	4	2	69	3	25	HOUGHTON LAKE...	17	152	152	152	152	SALEM...	1	1	1	1	1
LITTLE ROCK...	4	2	51	1	12	LANING...	17	152	152	152	152	PA. ALLENTOWN...	1	1	1	1	1
CALIF. BAKERSFIELD...	4	2	55	3	28	LONGME...	17	152	152	152	152	ERIE...	1	1	1	1	1
EUREKA...	4	2	55	3	28	MARQUETTE...	17	152	152	152	152	HARRISBURG...	1	1	1	1	1
FRESNO...	4	2	55	3	28	MUSKOGON...	17	152	152	152	152	LABELED PHIA...	1	1	1	1	1
LOS ANGELES...	4	2	55	3	28	S. STE. MARIE...	17	152	152	152	152	PITTSBURGH...	1	1	1	1	1
RED BLUFF...	4	2	55	3	28	MINN. DULUTH...	17	152	152	152	152	SCRANTON...	1	1	1	1	1
SAN DIEGO...	4	2	55	3	28	INTERNATL FALLS...	17	152	152	152	152	R.I. PROVIDENCE...	1	1	1	1	1
SAN FRANCISCO...	4	2	55	3	28	MINNEAPOLIS...	17	152	152	152	152	S.C. CHARLESTON...	1	1	1	1	1
STOCKTON...	4	2	55	3	28	ROCHESTER...	17	152	152	152	152	COLUMBIA...	1	1	1	1	1
COLO. DENVER...	5	2	171	8	72	ST. CLOUD...	17	152	152	152	152	GREENVILLE...	1	1	1	1	1
GRAND JUNCTION...	5	2	139	1	15	MISS. JACKSON...	29	16	44	24	24	S. DAK. ABERDEEN...	1	1	1	1	1
PUEBLO...	5	2	139	1	15	MERIDIAN...	28	11	41	14	14	HURON...	1	1	1	1	1
CONN. BRIDGEPORT...	12	7	25	1	69	MO. COLUMBIA...	95	53	189	76	65	RAPID CITY...	1	1	1	1	1
HARTFORD...	12	7	38	0	134	KANSAS CITY...	95	43	169	45	11	STOUX FALLS...	1	1	1	1	1
DEL. WILMINGTON...	10	6	153	4	21	ST. LOUIS...	95	43	169	45	11	TENN. CHATTANOOGA...	1	1	1	1	1
D.C. WASHINGTON...	8	5	110	4	42	SPRINGFIELD...	95	43	169	45	11	KNOXVILLE...	1	1	1	1	1
FLA. APALACHICOLA...	8	5	110	4	42	MONT. BILLINGS...	5	4	142	27	34	MEMPHIS...	1	1	1	1	1
DAYTONA BEACH...	8	5	110	4	42	GLASGOW...	5	4	142	27	34	NASHVILLE...	1	1	1	1	1
FORT HYERS...	8	5	110	4	42	GREAT FALLS...	5	4	142	27	34	TEXAS. ABILENE...	1	1	1	1	1
JACKSONVILLE...	8	5	110	4	42	HAVRE...	5	4	142	27	34	AMARILLO...	1	1	1	1	1
KEY WEST...	8	5	110	4	42	HELENA...	5	4	142	27	34	ARLINGTON...	1	1	1	1	1
LAKE LAND...	8	5	110	4	42	KALISPELL...	5	4	142	27	34	BAUSEMAN...	1	1	1	1	1
MIAMI...	8	5	110	4	42	MILES CITY...	5	4	142	27	34	BROWNSVILLE...	1	1	1	1	1
ORLANDO...	8	5	110	4	42	MISSOULA...	5	4	142	27	34	CORPUS CHRISTI...	1	1	1	1	1
TALLAHASSEE...	8	5	110	4	42	NEBR. GRAND ISLAND...	8	2	199	22	22	DEL RIO...	1	1	1	1	1
TAMPA...	8	5	110	4	42	LINCOLN...	8	2	199	22	22	EL PASO...	1	1	1	1	1
MEST PALM BEACH...	8	5	110	4	42	NORFOLK...	8	2	199	22	22	FORT WORTH...	1	1	1	1	1
GA. ATLANTA...	15	11	361	21	120	NORTH PLATTE...	8	2	199	22	22	GALVESTON...	1	1	1	1	1
AUGUSTA...	15	11	361	21	120	ORAH...	8	2	199	22	22	HOUSTON...	1	1	1	1	1
MACON...	15	11	361	21	120	VALENTINE...	8	2	199	22	22	HIGHLAND...	1	1	1	1	1
SAVANNAH...	15	11	361	21	120	NEV. ELI...	5	6	330	240	317	SAN ANGELO...	1	1	1	1	1
IDAHO. BOISE...	4	1	81	1	196	LAS VEGAS...	5	6	330	240	317	SAN ANTONIO...	1	1	1	1	1
LEWISTON...	4	1	81	1	196	RENO...	5	6	330	240	317	VICTORIA...	1	1	1	1	1
POCATELLO...	4	1	81	1	196	WINNEMUCCA...	5	6	330	240	317	WASH. BACON...	1	1	1	1	1
ILL. CAIRO...	6	3	91	4	23	N. H. CONCORD...	183	85	517	94	32	WICHITA FALLS...	1	1	1	1	1
CHICAGO...	6	3	111	4	23	N. J. ATLANTIC CITY...	120	73	249	133	17	UTAH. SALT LAKE CITY...	11	65	26	218	215
MOLINE...	6	3	111	4	23	TRENTON...	120	73	249	133	17	VT. BURLINGTON...	17	70	513	68	67
PEORIA...	6	3	111	4	23	N. MEX. ALBUQUERQUE...	8	23	32	23	7	VA. LYNCHBURG...	10	60	20	74	74
ROCKFORD...	6	3	111	4	23	ROSNELL...	11	20	36	31	43	NORFOLK...	10	60	10	74	74
SPRINGFIELD...	6	3	111	4	23	N. Y. ALBANY...	61	77	415	68	68	RICHMOND...	10	60	10	74	74
IND. EVANSVILLE...	4	1	58	1	134	BINGHAMTON...	60	69	335	137	74	ROANOKE...	10	60	10	74	74
FORT WAYNE...	4	1	58	1	134	BUFFALO...	60	69	335	137	74	WASH. GUILLYAUTE...	10	60	10	74	74
INDIANAPOLIS...	4	1	58	1	134	NEW YORK...	60	69	335	137	74	SEATTLE-TACOMA...	10	60	10	74	74
SOUTH BEND...	4	1	58	1	134	ROCHESTER...	60	69	335	137	74	SPOKANE...	10	60	10	74	74
IOWA. BURLINGTON...	6	3	111	4	23	SYRACUSE...	60	69	335	137	74	VAL LA HALLA...	10	60	10	74	74
DES MOINES...	6	3	111	4	23	N. C. ASHEVILLE...	86	36	194	44	61	VA. BECKLEY...	147	72	425	147	184
DUBUQUE...	6	3	111	4	23	CHARLOTTE...	86	36	194	44	61	CHARLESTON...	147	72	425	147	184
STOUX CITY...	6	3	111	4	23	GREENSBORO...	86	36	194	44	61	HUNTINGTON...	147	72	425	147	184
KANS. CONCORDIA...	11	1	123	3	24	HATTERAS...	86	36	194	44	61	PARKERSBURG...	147	72	425	147	184
BOGGE CITY...	11	1	123	3	24	RALEIGH...	86	36	194	44	61	WIS. GREEN BAY...	71	77	50	15	76
GOODLAND...	11	1	123	3	24	WILMINGTON...	86	36	194	44	61	LACROSSE...	71	77	50	15	76
TOPEKA...	11	1	123	3	24	N. DAK. BISMARCK...	48	40	402	11	11	RADISSON...	71	77	50	15	76
NICHITA...	11	1	123	3	24	HILLISTON...	48	40	402	11	11	HILDAUKEE...	71	77	50	15	76
KY. LEXINGTON...	10	4	21	10	30	OHIO. AKRON-CANTON...	82	76	403	15	163	WYO. CASPER...	98	19	14	14	14
LOUISVILLE...	10	4	21	10	30	CINCINNATI...	82	76	403	15	163	CHEYENNE...	98	19	14	14	14
LA. BATON ROUGE...	11	1	13	1	1	CLEVELAND...	82	76	403	15	163	LANDER...	98	19	14	14	14
LAKE CHARLES...	11	1	13	1	1	COLUMBUS...	82	76	403	15	163	SHERIDAN...	98	19	14	14	14
NEW ORLEANS...	11	1	13	1	1	DAYTON...	82	76	403	15	163						
SHREVEPORT...	11	1	13	1	1	TOLEDO...	82	76	403	15	163						

BASED ON 1941-70 NORMALS.

+ ACCUMULATION FROM JULY 1, 1979.

HARVESTING PROGRESS
FOR WEEK ENDING OCT 14, 1979

SOYBEANS			
	1979	1978	AVG.
ALA	16	17	14
ARK	8	12	10
GA	7	15	9
ILL	78	70	64
IND	40	40	50
IOWA	83	49	62
KANS	50	38	20
KY	14	31	25
LA	31	34	38
MICH	10	13	25
MINN	61	71	74
MISS	17	28	22
MO	54	26	29
NEBR	85	65	50
N C	3	5	6
OHIO	20	45	50
S C	1	4	NA
TENN	6	19	10
18 STATES	43	39	41

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

CORN			
	1979	1978	AVG.
COLO	12	26	28
GA	85	87	69
ILL	23	39	29
IND	15	20	20
IOWA	14	35	31
KANS	50	60	40
KY	36	54	42
MICH	5	13	14
MINN	5	36	42
MO	38	38	45
NEBR	20	35	30
N C	73	84	77
OHIO	15	25	20
PA	6	14	11
S DAK	24	27	34
VA	50	59	52
WIS	6	10	15
17 STATES	21	35	32

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

COTTON			
	1979	1978	AVG.
ALA	10	51	14
ARIZ	16	19	16
ARK	11	41	29
CALIF	9	10	NA
GA	21	40	24
LA	17	47	31
MISS	12	60	32
MO	30	59	27
N MEX	1	3	8
N C	14	21	15
OKLA	5	0	5
S C	26	57	30
TENN	4	52	28
TEX	17	24	25
14 STATES	14	27	24

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

GRAIN SORGHUM			
	1979	1978	AVG.
COLO	7	15	17
KANS	40	45	30
MO	46	44	46
NEBR	35	50	50
OKLA	30	25	30
S DAK	31	33	48
TEX	73	78	76
7 STATES	50	56	51

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

RICE			
	1979	1978	AVG.
ARK	75	93	81
CALIF	60	NA	NA
LA	97	100	100
MISS	74	93	78
TEX	100	100	100
5 STATES	79	NA	NA
EXCL CALIF	83	93	87

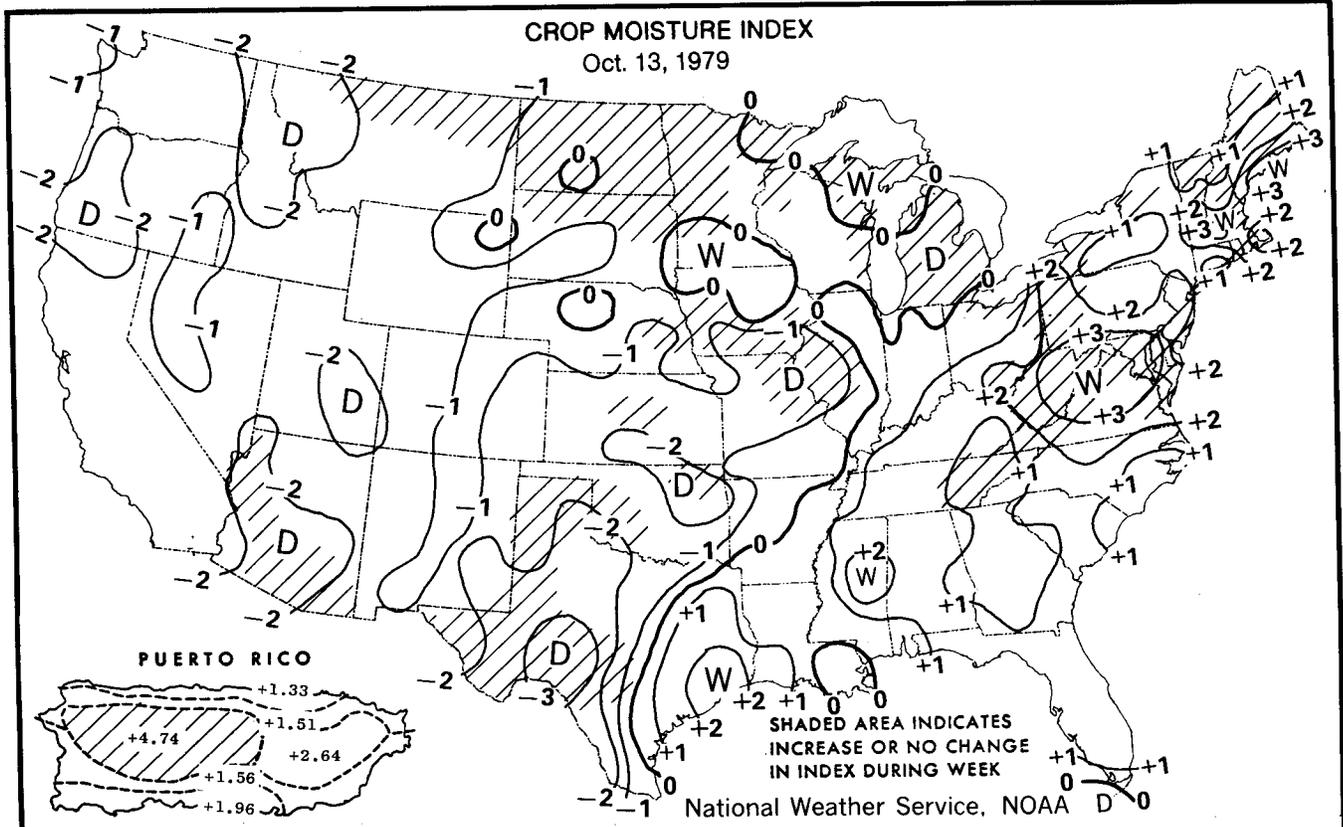
THESE 5 STATES PRODUCED 99%
OF THE 1978 RICE CROP.

PLANTING PROGRESS
FOR WEEK ENDING OCT 14, 1979

WINTER WHEAT			
	1979	1978	AVG.
CALIF	1	NA	NA
COLO	100	100	100
IDAHO	85	80	80
ILL	55	60	57
IND	55	60	55
KANS	80	90	80
MO	49	45	NA
MONT	90	90	95
NEBR	100	100	100
OHIO	40	70	65
OKLA	70	80	80
OREG	58	NA	NA
S DAK	100	100	100
TEX	85	75	75
WASH	78	79	NA
15 STATES	75	83	62

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

NA NOT AVAILABLE



The Crop Moisture Index measures the degree to which moisture requirements of growing crops were met during the previous week. The index is computed from average weekly values of temperature and precipitation. These values are used to calculate the potential moisture demand. Taking into account the previous soil moisture condition and current rainfall, the actual moisture loss is determined.

If the potential moisture demand, or potential evapotranspiration, exceeds available moisture supplies, actual evapotranspiration is reduced and

the CMI gives a negative value. However, if moisture meets or exceeds demand the index is positive.

Shaded areas indicate the index was unchanged or increased from the previous week's value; soils dried in the unshaded areas. Centers of positive and negative areas are identified by W for wet and D for dry.

Local moisture conditions may vary because of differences in rainfall distribution or soil types. The type of agriculture and stage of crop development must be considered when assessing the impact of moisture conditions based on the Crop Moisture Index. Some general guidelines follow.

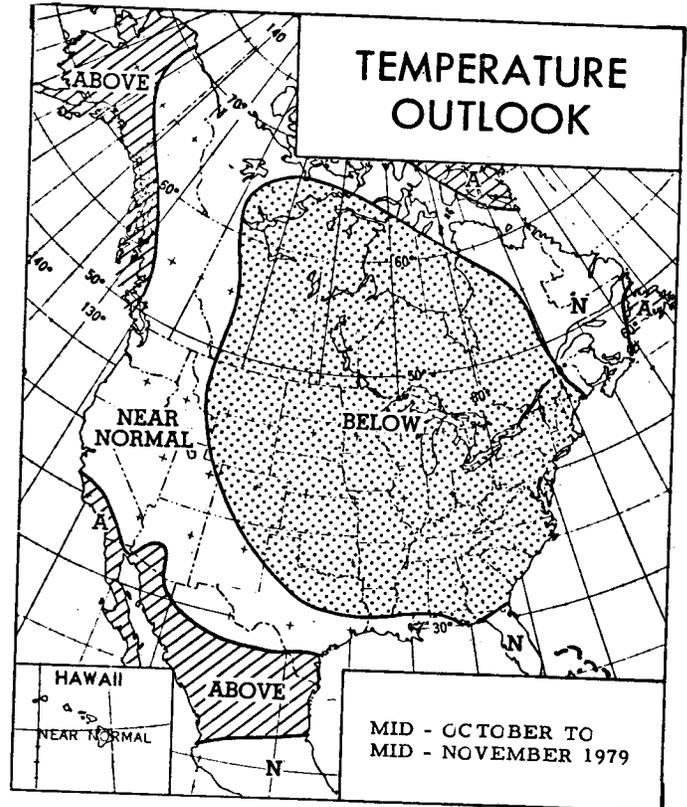
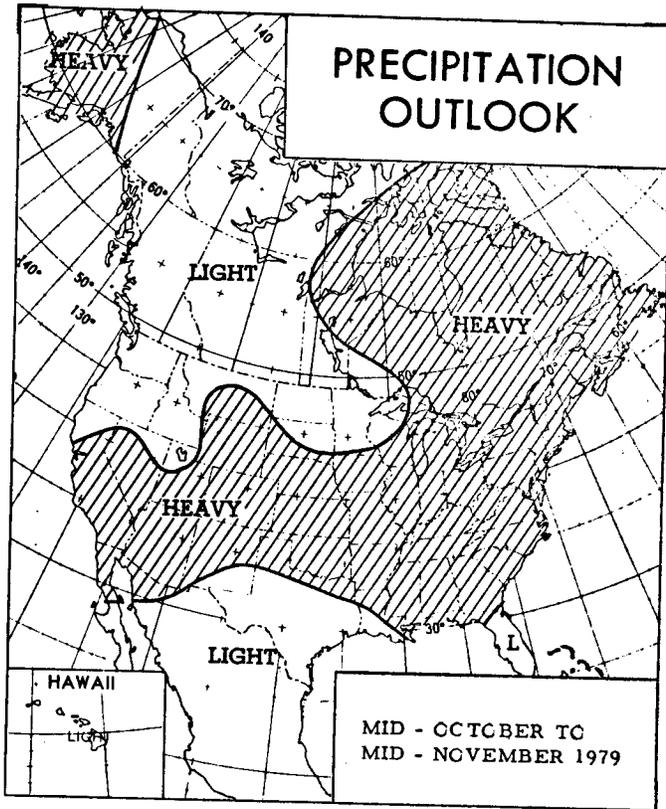
UNSHADED AREAS: INDEX DECREASED	
ABOVE	3.0
2.0 to	3.0
1.0 to	2.0
0 to	1.0
0 to	-1.0
-1.0 to	-2.0
-2.0 to	-3.0
-3.0 to	-4.0
BELOW	-4.0

SHADED AREA: INDEX INCREASED OR DID NOT CHANGE	
ABOVE	3.0
2.0 to	3.0
1.0 to	2.0
0 to	1.0
0 to	-1.0
-1.0 to	-2.0
-2.0 to	-3.0
-3.0 to	-4.0
BELOW	-4.0

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.



FIRST CLASS MAIL



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