

# WEEKLY WEATHER AND CROP BULLETIN

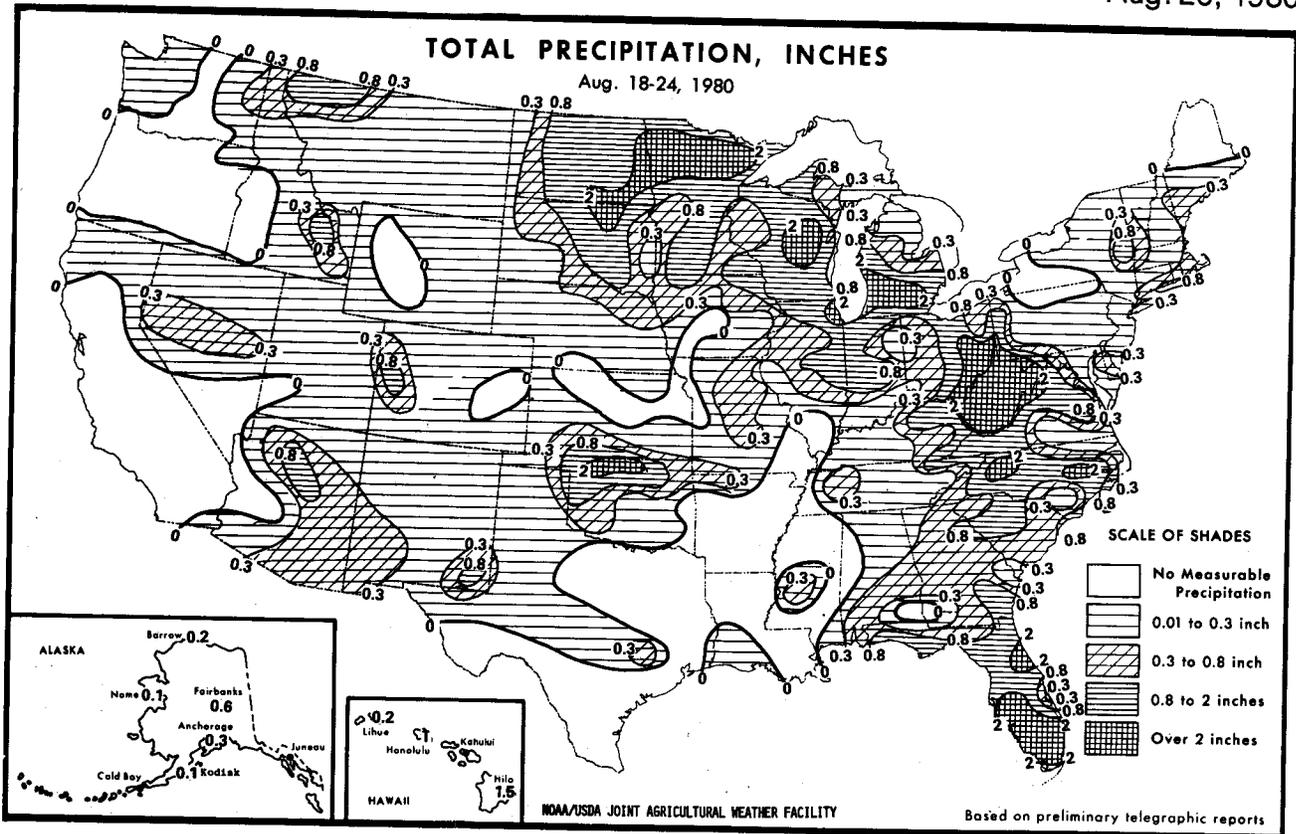
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## National Weather Summary

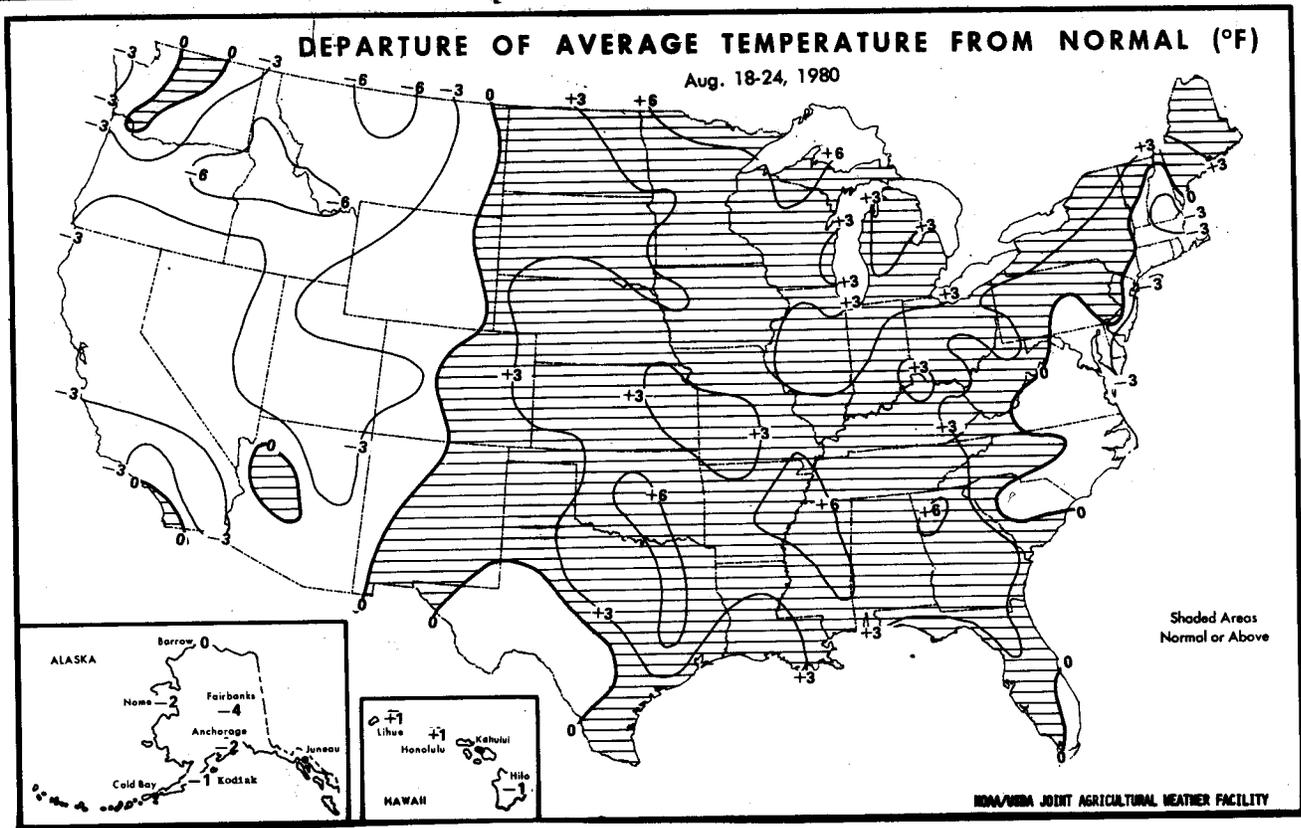
August 18 - 24

**HIGHLIGHTS:** A slow-moving cold front moved from the northern and central Plains to the eastern United States. A warm front, nearly stationary from the Great Lakes to the Carolinas, caused almost daily rain early in the week in West Virginia and parts of adjacent States; severe flooding resulted. Elsewhere, some moderate amounts of rain from thunderstorms fell in northern and central Oklahoma where it was much needed. The dry Mississippi Delta and eastern Texas remained dry. Temperatures were hot in the South, and after mid-week, the warm weather moved northward through the central Plains.

**MONDAY...** Showers and thunderstorms continued in the Allegheny Mountains. Flash flooding swept through many places in northern West Virginia and the adjacent counties of Ohio and Pennsylvania.

The showers extended from the Ohio Valley across the Tennessee and lower Mississippi Valleys to the central and eastern gulf coast. In the middle of the country, showers and thunderstorms stretched from South Dakota through Kansas and from New Mexico to western Texas. Further west, thunderstorms were spread from the Great Basin to the northern Rockies. Hot weather moved northward through the Plains. Several towns in South Dakota passed the 100-degree mark.

**TUESDAY...** A cold front pushed into the Great Plains, while a warm front extended from Minnesota to the central Atlantic Coast. Cool weather began to spread over the northern Plains. The northerly wind held the mercury in the seventies in western North Dakota while Fargo, to the east, climbed to 89°. Showers and thunderstorms accompanied the passage of the front and were scattered from the



Rockies to the western sections of the central and southern Plains and from the eastern Dakotas through Minnesota. Elsewhere, thunderstorms struck from the Ohio Valley to the eastern gulf and southern Atlantic coasts. Most of the significant weather was in central Indiana. A tornado touched down in one town, and winds gusted up to 70 mph in the Indianapolis area. Many central Indiana streams flowed out of their banks.

**WEDNESDAY...**The cold front reached the western Great Lakes region and extended southward through Iowa to Oklahoma and New Mexico. Showers and thunderstorms were numerous along and ahead of the front as far south as Oklahoma. Thunderstorms produced wind gusts up to 70 mph in parts of Oklahoma and Missouri. A warm front stretched through the Great Lakes and produced heavy thunderstorms from northern Wisconsin into Ohio, and lighter storms through West Virginia and Virginia. Scattered showers continued through the Southeast. Cool weather advanced behind the front, but ahead of the front, temperatures rose to over 100° from Oklahoma to Georgia. Highs in the midnineties reached into central Illinois.

**THURSDAY...**Cool weather spread over the western half of the Plains. Low temperatures ranged from the forties in Montana to the low sixties in the Texas Panhandle. North Platte, south central Nebraska, dipped to a record low 46°. Ahead of the colder air, thermometers climbed to over 100° again from southeastern Oklahoma to Georgia. The front advanced to eastern Ohio, Kentucky, and Tennessee and then became weak as it extended into northern Texas. Showers and thunderstorms reached from Michigan through the upper Ohio Valley, through West Virginia and into South Carolina. Almost daily rain has plagued West Virginia and resulted in severe flooding.

**FRIDAY...**The cold front reached from New England across West Virginia to a low pressure center in Georgia and westward into Texas. Showers and thunderstorms extended from the upper Ohio Valley to Florida and across Maryland and Delaware. Showers also dotted the eastern edge of the northern Plains and stretched from southern Kansas to central Texas. Rain was not as intense as on previous days, and no new flooding was reported. However, streams remained swollen in the upper Ohio Valley and the Alleghenys. Afternoon temperatures were unseasonably hot over the gulf coast States.

**SATURDAY...**The front eased through the eastern United States and dissipated along the coast. Showers along the weakening front were generally light and widely scattered. Showers and thunderstorms were active throughout Florida as a low pressure center dropped southward through the area. Widely scattered thunderstorms dotted central Texas, but rain amounts remained very small. Elsewhere, showers and thunderstorms began late in the day from Arizona and New Mexico northward to southern Montana and through the northern Plains. Isolated heavy storms rolled over parts of Arizona, Colorado, and Minnesota. Hot temperatures pushed northward through the central Plains, but it was somewhat cooler in the Southeast.

**SUNDAY...**A trough of low pressure extended over a broad area from central Canada southward into the Plains and to Arizona and New Mexico. The heaviest thunderstorms occurred along a line from Wisconsin to Colorado and New Mexico. Heavy amounts of rain fell in Wisconsin and, although storms were generally light in Colorado, isolated heavy amounts caused local flooding. Thunderstorms were scattered in the Southeast and along the gulf coast. Hot weather continued in the southern and central Plains. The mercury climbed past 100° as far north as Nebraska. A high pressure system centered near the eastern Great Lakes brought cooler weather to the East.

## National Agricultural Summary

August 18 - 24

**HIGHLIGHTS:** Rains and wet conditions further delayed small grain harvests but helped restore soil moisture supplies and benefited row crops. Heaviest amounts fell in the northern Plains, the Corn Belt, and along the east coast. Temperatures averaged above normal in all areas of the Nation except the western part of Texas and in areas along the east coast. Farmers in the south central States and the West had 5 to 7 days suitable for fieldwork, while in other areas, 1 to 6 days were available. Soil moisture generally rated adequate to surplus except in the south Atlantic States, the south central States, and in the West where supplies rated short to adequate. Recent rains recharged moisture supplies in many areas that had been short earlier in the season. Winter wheat combining was winding down in all areas except the Northwest where considerable acreage remained for harvest. The spring wheat harvest advanced to 60% complete. Oats and barley harvests advanced slowly due to wet conditions. Corn harvesting gained momentum in the South; 82% of the Nation's crop reached the dough stage and 41% the dent stage. Grain sorghum heading reached 85% complete; coloring advanced northward in South Dakota, while harvesting increased in the South. Cotton bolls were opening in many fields; progress ranged from 1% in New Mexico to 48% in South Carolina. Rice heading reached 77% complete, while harvesting was 32% complete. Early-planted soybean fields began to turn color, and 81% of the crop had set pods. Recent rains improved pastures and ranges with conditions reported fair to good except in parts of the Southeast, the south central region, and the West where poor to fair conditions continue. Supplemental feeding and herd reduction continue in many areas.

**CORN:** Corn rated fair to good throughout most of the Corn Belt but only poor to fair in other areas of the Nation. Nearly 82% of the crop reached the dough stage and 41% the dent stage, well ahead of last year's progress and slightly ahead of normal. Harvesting gained momentum in the South where progress ranged from 5% in Virginia to 47% in Georgia. Fields in areas where hot, dry conditions severely stressed the crop continued to be salvage harvested for silage rather than grain.

**SOYBEANS:** Soybeans rated fair to good in much of the Corn Belt but rated poor to fair in other major growing areas. Nearly all of the crop had bloomed and 81% had set pods, slightly ahead of last year and the average. Leaves began to turn color in early-planted fields. In areas where hot, dry conditions have prevailed, the condition of the crop continues to deteriorate. Plants shed leaves, blooms, and pods, and some fields are being cut for hay or disked under.

**SMALL GRAINS:** Spring wheat harvesting advanced to 60% complete, well ahead of last year's 25% and slightly ahead of the 53% average. Harvesting was only 36% complete in Idaho and 45% complete in Montana. In North Dakota, wet conditions have increased sprout damage for spring wheat and durum wheat laying in swath.

Winter wheat combining was finished in nearly all major producing areas except the Northwest. Only Idaho, Montana, Oregon, and Washington had appreciable acreage remaining for harvest. Plowing for winter wheat planting became more widespread with progress ranging up to 58% complete in Illinois.

Wet conditions slowed harvesting progress for barley and oats in many areas.

**COTTON:** Cotton rated fair to poor in most major producing areas. Growth progressed rapidly with most of the crop setting bolls and bolls opening in many fields. Progress ranged from 1% in New Mexico to 48% in South Carolina where crop conditions are poor, and the premature opening of bolls is common. In Texas, harvesting reached 12% and was moving northward. Dryland fields in Texas suffered tremendously from the lack of moisture with many fields wilting, shedding squares, and dropping bolls. Some fields are being shredded and plowed for disaster payments. Irrigated fields rate fair to good.

**OTHER CROPS:** Grain sorghum heading advanced to 85% complete, about equal to last year and the average. Coloring edged northward in South Dakota and ranged from 20% complete in Kansas to 73% in Texas. Harvesting gained momentum in the South with progress ranging from 10% in Arkansas and Mississippi to 69% in Texas where many dryland fields matured earlier than expected. The drought severely affected many fields and some are being abandoned, grazed out, cut for hay, or cut for silage.

Rice heading reached 77% complete and harvesting 32% complete. Harvesting was complete in Texas and underway in all other areas except California.

Tobacco growers continued topping and harvesting activities. Harvesting was underway in most producing regions.

In Idaho, 48% of the potatoes vines were turning color and 14% had died. Harvesting got underway in southern New England and in New York.

**FRUITS:** Fruit harvest moved actively in northern production areas where apples, peaches, plums, and nectarines were picked. The peach harvest neared completion in southern areas.

Florida citrus groves rated very good. Rain is needed in northern areas as irrigation continues in drier locations.

In California, growers picked Golden Delicious and Jonathan apples. Avocados sized well and early-variety almonds were harvested. Table grapes were being packed and raisin grapes were on trays. Cool weather in the citrus groves allowed remaining Valencia, oranges and grapefruit to keep better.

Arizona citrus groves generally rated good with early-variety fruit making good progress. New-crop lemons were being picked on a limited basis.

In Texas, the peach harvest continued in the north and on the High Plains. Stress from dryness continued to cause pecan droppage. Some areas report insect damage.

**VEGETABLES:** The summer vegetable harvest began to decline in many northern areas. Growers prepared land for fall planting, and in some areas, planted fall vegetables.

California growers harvested artichokes, broccoli, carrots, cauliflower, celery, lettuce, tomatoes, and number of other vegetables. Cool nights delayed many fields. Fall planting is underway in many areas.

Texas growers resumed planting as fields dried out from Hurricane Allen. Some fields were re-

(continued on page 20)

Weather Data for the Week Ending Aug. 24, 1980

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 June 2	PCT. NORMAL SINCE June 2	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	PRECIPITATION	
																.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	93	73	99	69	83	4	T	-.9	T	7.6	61	91	52	6	0	1	1
MOBILE	95	76	98	71	85	4	.5	-1.0	.5	14.5	72	87	47	7	0	1	0
MONTGOMERY	94	76	97	73	85	4	.7	0	.6	6.8	58	86	46	7	0	2	1
AK ANCHORAGE	60	46	66	39	53	-2	.3	-.3	.3	7.8	156	80	52	0	0	2	0
BARROW	44	31	55	26	37	0	.2	0	.1	1.3	62	85	78	0	5	4	0
FAIRBANKS	60	39	67	33	50	-5	.6	-.1	.2	3.8	73	86	55	0	0	5	0
KODIAK	60	48	66	44	54	1	.1	-.9	0	3.0	28	74	65	0	0	1	0
NOME	52	41	54	32	47	-2	.1	-.7	.1	6.5	107	83	69	0	1	1	0
AZ FLAGSTAFF	79	47	85	41	63	0	1.3	-.7	.7	5.0	98	64	24	0	0	3	1
PHOENIX	99	77	104	73	88	0	T	-.3	T	.6	32	40	22	7	0	0	0
TUCSON	93	70	98	66	82	-2	.7	-.2	.6	4.0	89	55	25	5	0	3	1
WINSLOW	85	57	91	46	71	-4	.7	-.3	.6	3.1	111	--	--	1	0	3	0
YUMA	103	75	105	71	89	-3	T	-.1	T	0	53	24	7	0	0	1	0
AR FORT SMITH	99	69	103	60	84	4	T	-.7	T	5.2	57	77	23	7	0	0	0
LITTLE ROCK	100	74	104	68	87	7	0	-.7	0	1.4	15	64	25	7	0	0	0
CA BAKERSFIELD	91	66	94	61	78	-2	0	0	0	0	0	--	33	4	0	0	0
EUREKA	59	50	61	48	54	-3	T	-.1	T	.5	45	75	73	0	0	1	0
FRESNO	92	63	97	59	78	0	0	0	0	0	0	80	58	0	0	0	0
LOS ANGELES	74	63	75	62	69	-5	0	0	0	0	0	0	26	6	0	0	0
RED BLUFF	92	62	95	58	77	-2	0	-.1	0	1.2	200	--	26	6	0	0	0
SAN DIEGO	78	70	79	68	74	2	0	0	0	0	0	78	61	0	0	0	0
SAN FRANCISCO	71	54	76	52	62	-1	0	0	0	.1	50	83	50	0	0	0	0
STOCKTON	89	58	94	54	74	-1	0	0	0	.5	500	82	35	3	0	0	0
CO DENVER	88	59	93	49	73	3	.1	-.2	.1	4.3	91	53	19	3	0	2	0
GRAND JUNCTION	85	55	94	46	70	-4	.8	-.5	.4	2.2	122	49	24	2	0	2	0
PUEBLO	92	58	95	56	75	1	0	-.4	0	3.6	73	72	22	5	0	0	0
CT BRIDGEPORT	79	65	85	61	72	0	1.6	-.8	1.6	11.1	126	64	56	0	0	2	1
HARTFORD	78	58	87	52	68	-1	.1	-.8	.1	9.0	91	90	55	0	0	1	0
DC WASHINGTON	83	69	91	66	76	0	.2	-.9	.1	6.5	58	91	61	1	0	2	0
FL APALACHICOLA	91	75	94	74	83	2	1.5	-.3	.8	15.5	80	96	62	5	0	3	2
DAYTONA BEACH	90	74	97	73	82	1	2.2	.6	1.4	13.5	73	91	56	3	0	3	2
FORT MYERS	93	77	96	75	85	2	3.3	1.6	1.5	17.7	75	90	56	7	0	3	2
JACKSONVILLE	93	73	99	68	83	2	1.4	-.4	1.0	12.6	65	97	52	5	0	3	1
KEY WEST	88	80	90	78	84	0	1.0	-.1	.7	14.7	125	80	62	1	0	2	1
MIAMI	89	75	92	73	82	-1	3.3	1.7	1.3	22.5	109	98	61	2	0	4	3
ORLANDO	94	74	100	71	84	2	1.9	.4	1.1	13.3	65	98	52	5	0	3	2
TALLAHASSEE	94	74	100	73	84	3	.4	-1.1	.4	19.3	93	97	52	7	0	1	0
TAMPA	91	75	93	72	83	1	1.9	.1	1.3	15.9	75	97	63	6	0	4	1
WEST PALM BEACH	89	73	90	70	81	-2	4.0	2.4	3.0	16.5	85	98	59	3	0	2	0
GA ATLANTA	92	74	98	72	83	6	.5	-.3	.4	6.9	60	88	51	4	0	2	0
AUGUSTA	93	70	98	63	82	2	.4	-.5	.4	7.0	57	93	48	5	0	3	0
MACON	97	74	105	69	86	5	.5	-.3	.4	7.3	65	96	42	7	0	1	0
SAVANNAH	94	73	100	70	83	3	.3	-1.1	.2	7.0	38	93	47	6	0	3	0
HI HILO	--	--	--	--	75	-1	1.5	-.9	--	18.9	77	--	--	--	--	--	--
HONOLULU	89	75	90	72	82	1	T	-.1	T	.6	40	75	47	2	0	0	0
KAHULUI	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LIHUE	--	--	--	--	80	1	.2	-.3	--	5.0	94	--	--	--	--	--	--
ID BOISE	83	51	90	42	67	-4	T	-.1	T	.3	19	53	19	1	0	0	0
LEWISTON	79	51	86	46	65	-5	.1	0	.1	2.1	75	69	30	0	0	2	0
POCATELLO	79	47	88	42	63	-5	.3	.2	.2	2.7	135	72	25	0	0	0	0
IL CAIRO	93	72	97	65	83	4	0	-.8	0	10.9	107	--	--	--	--	--	--
CHICAGO	87	64	93	57	76	6	2.2	1.5	1.4	14.4	137	93	47	2	0	2	0
MOLINE	86	64	93	55	75	3	.4	-.3	.4	15.2	131	91	53	2	0	2	0
PEORIA	84	65	92	58	75	2	T	-.7	T	13.8	142	95	58	2	0	1	0
ROCKFORD	85	64	93	54	74	4	1.0	-.2	.7	14.2	122	93	53	1	0	3	1
SPRINGFIELD	88	66	95	58	77	3	.5	-.1	.5	6.4	64	64	55	2	0	2	1
IN EVANSVILLE	90	68	96	59	79	4	T	-.6	T	12.6	133	79	40	4	0	1	0
FORT WAYNE	83	64	86	56	74	3	.2	-.4	.1	10.0	101	96	62	0	0	2	0
INDIANAPOLIS	87	65	92	57	76	3	2.5	1.9	1.6	15.0	152	92	52	1	0	2	2
SOUTH BEND	83	63	88	57	73	3	1.0	.3	.8	12.5	126	90	57	0	0	2	1
IA BURLINGTON	87	65	92	61	76	3	.8	0	.8	19.4	176	--	--	2	0	1	1
DES MOINES	87	65	92	61	76	4	0	-.8	0	11.5	107	79	51	2	0	0	0
DUBUQUE	83	63	89	56	73	4	3.0	2.1	1.8	15.8	126	88	58	0	0	2	2
SIoux CITY	86	63	92	60	75	2	.7	0	.4	6.1	61	86	52	2	0	3	0
KS CONCORDIA	94	67	102	58	80	4	.2	-.5	.1	4.8	46	71	31	4	0	2	0
DODGE CITY	92	67	99	62	80	4	.4	-.2	.3	7.1	85	80	36	5	0	2	0
GOODLAND	91	61	97	49	76	3	T	-.5	T	11.5	158	80	26	5	0	1	0
TOPEKA	90	65	94	58	78	2	T	-1.0	T	5.7	44	82	48	5	0	0	0
WICHITA	94	70	99	63	82	3	.1	-.6	.1	5.5	49	76	40	6	0	1	0
KY LEXINGTON	87	68	91	63	78	3	1.4	-.7	.8	11.8	99	92	52	2	0	2	2
LOUISVILLE	91	70	95	63	80	5	T	-.6	T	12.4	124	88	45	4	0	1	0

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

Weather Data for the Week Ending Aug. 24, 1980

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 June 2	PCT. NORMAL SINCE June 2	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE		PRECIPI-TATION		
														90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE	
LA BATON ROUGE	94	73	100	69	84	2	T	-1.0	T	13.9	99	86	48	7	0	0	0	0
LA LAKE CHARLES	95	72	100	67	83	1	T	.3	T	10.2	67	89	45	7	0	0	0	0
LA NEW ORLEANS	98	77	102	75	87	5	T	-1.1	T	9.5	62	68	50	7	0	0	0	0
LA SHREVEPORT	100	72	103	65	86	3	T	0	T	4.5	56	83	30	7	0	0	0	0
ME CARIBOU	81	52	86	48	66	5	T	0	T	9.5	93	43	0	0	0	0	0	0
ME PORTLAND	76	58	90	53	67	1	T	.6	T	0	88	92	55	1	0	0	0	0
MD BALTIMORE	80	65	87	62	72	-2	T	-1.1	T	6.8	94	90	58	0	0	0	0	0
MA BOSTON	72	61	83	58	67	-4	T	.3	T	6.7	79	87	64	0	0	0	0	0
MA CHATHAM	71	60	77	59	66	-1	T	0	T	5.5	65	91	68	0	0	0	0	0
MI ALPENA	82	56	85	49	69	5	T	.6	T	8.3	111	43	0	0	0	0	0	0
MI DETROIT	82	61	84	55	72	2	T	1.3	T	.6	88	14.6	162	82	56	0	0	1
MI FLINT	80	59	81	53	70	2	T	.9	T	1.1	162	121	97	60	0	0	0	3
MI GRAND RAPIDS	84	60	89	54	72	3	T	2.4	T	1.8	10.8	151	99	57	0	0	0	3
MI HOUGHTON LAKE	82	55	84	45	69	5	T	.1	T	1.3	12.5	72	98	52	0	0	0	2
MI LANSING	82	61	86	51	72	3	T	-1.4	T	.1	5.9	96	58	0	0	0	0	2
MI MARQUETTE	78	58	84	53	68	3	T	3.0	T	2.4	1.7	112	96	62	0	0	0	3
MI MUSKEGON	80	59	85	51	70	1	T	.6	T	-1	6	101	98	54	0	0	0	3
MI SAULT STE. MARIE	77	54	86	47	66	3	T	3.5	T	2.9	2.6	13.3	187	96	58	0	0	3
MN DULUTH	80	59	85	51	70	1	T	.1	T	-1.6	.1	7.9	96	58	0	0	0	2
MN INT'L FALLS	75	59	78	50	67	4	T	1.7	T	.8	.9	10.3	94	86	57	0	0	5
MN MINNEAPOLIS	78	60	89	52	69	7	T	1.0	T	.2	.7	6.5	62	85	52	0	0	3
MN ROCHESTER	84	62	88	54	73	4	T	.4	T	-.3	.3	9.0	90	82	54	0	0	3
MN SAINT CLOUD	82	60	90	52	71	3	T	.8	T	0	.3	9.4	85	90	65	1	0	3
MS JACKSON	82	60	84	48	71	4	T	.8	T	-1	.5	12.3	115	78	1	0	0	4
MS MERIDIAN	99	73	101	69	86	5	T	.7	T	-1	.7	5.9	56	84	37	7	0	0
MO COLUMBIA	100	72	104	66	86	5	T	.8	T	-.8	T	7.5	63	93	38	7	0	0
MO KANSAS CITY	91	65	97	59	78	3	T	.6	T	-.1	.3	4.8	45	85	36	5	0	2
MO SAINT LOUIS	90	67	94	60	79	3	T	0	T	-.9	0	8.5	67	72	42	4	0	0
MO SPRINGFIELD	93	65	97	56	79	3	T	.1	T	-.5	.1	8.6	83	90	43	2	0	1
MT BILLINGS	80	54	92	52	67	-2	T	.1	T	-.6	.1	5.5	53	85	31	7	0	2
MT GLASGOW	77	52	88	47	65	-3	T	.2	T	-.2	.2	4.2	76	76	33	0	0	1
MT GREAT FALLS	75	49	87	44	62	-5	T	.2	T	-.1	.2	4.9	96	73	38	0	0	1
MT HAVRE	74	49	85	43	62	-5	T	.1	T	-.2	.1	3.8	81	79	33	0	0	2
MT HELENA	75	47	87	41	61	-4	T	.1	T	-.1	.1	5.3	129	67	25	0	0	1
MT KALISPELL	70	46	80	41	58	-3	T	1.0	T	-.6	.9	5.0	109	92	56	0	0	3
MT MILES CITY	87	56	108	50	72	0	T	.3	T	-.3	T	5.1	88	80	27	2	0	2
NE MISSOULA	75	45	84	40	60	-4	T	.3	T	-.3	.3	3.8	62	85	32	0	0	1
NE GRAND ISLAND	91	65	101	55	78	4	T	.1	T	.1	.1	8.7	395	75	33	4	0	1
NE LINCOLN	92	68	99	59	80	5	T	.1	T	.7	T	9.3	87	75	40	4	0	2
NE NORFOLK	90	65	96	57	77	5	T	.5	T	-.1	.3	8.6	85	80	42	4	0	2
NE NORTH PLATTE	90	59	98	46	75	3	T	.4	T	-.4	T	4.5	55	77	28	4	0	1
NE OMAHA	88	67	94	59	78	4	T	.2	T	-.7	.1	16.2	138	70	44	3	0	2
NE VALENTINE	90	62	98	50	76	5	T	.5	T	0	.2	5.9	74	75	27	5	0	4
NV ELY	80	42	85	34	61	-3	T	.3	T	-.2	.3	1.8	106	62	18	0	0	1
NV LAS VEGAS	99	71	101	69	85	-1	T	0	T	-.1	0	.5	56	24	12	7	0	0
NV RENO	83	46	89	40	65	-1	T	.3	T	.2	.3	.9	82	81	21	0	0	1
NV WINNEMUCCA	86	46	92	38	66	-1	T	.2	T	-.1	.2	.8	50	55	17	2	0	1
NH CONCORD	74	52	87	43	63	-3	T	.1	T	-.6	.1	9.0	105	93	58	0	0	2
NJ ATLANTIC CITY	75	58	83	55	67	-6	T	-.1	T	-1.0	T	8.3	71	67	58	0	0	1
NJ TRENTON	80	66	89	65	73	0	T	-.9	T	T	8.4	74	74	74	74	0	0	0
NM ALBUQUERQUE	90	61	93	55	76	0	T	.3	T	.3	T	2.7	84	61	21	4	0	2
NM ROSWELL	90	67	93	64	78	1	T	.2	T	-.1	.2	2.2	51	49	21	4	0	2
NY ALBANY	79	57	86	54	68	0	T	.6	T	.6	1.1	13.3	164	92	49	0	0	2
NY BINGHAMTON	76	58	81	54	67	0	T	.8	T	.8	T	9.1	93	96	58	0	0	2
NY BUFFALO	81	64	85	58	73	5	T	.8	T	.8	T	12.4	157	87	61	0	0	0
NY NEW YORK	79	67	86	66	73	-1	T	-1.0	T	T	9.0	87	85	58	0	0	0	0
NY ROCHESTER	83	63	85	59	73	4	T	.5	T	.8	T	11.8	155	94	54	0	0	1
NY SYRACUSE	82	60	86	57	71	3	T	.8	T	.8	T	7.6	85	92	49	0	0	1
NC ASHEVILLE	86	65	92	60	75	3	T	.4	T	.4	.9	9.4	76	57	2	0	3	1
NC CHARLOTTE	88	69	94	65	78	1	T	1.5	T	.6	1.2	6.8	60	96	51	4	0	5
NC GREENSBORO	84	67	91	62	76	0	T	1.6	T	.6	.9	8.2	70	96	64	2	0	1
NC HATTERAS	81	71	86	66	76	-1	T	.1	T	-1.4	.1	10.5	66	87	61	0	0	6
NC RALEIGH	85	66	93	61	76	0	T	1.5	T	.4	1.4	8.9	71	85	59	2	0	1
NC WILMINGTON	85	71	91	64	78	-1	T	1.0	T	-1.3	1.0	11.0	57	87	58	1	0	3
ND BISMARCK	81	58	93	52	70	2	T	1.4	T	1.0	.8	8.6	119	88	47	1	0	3
ND FARGO	86	61	93	52	73	5	T	2.2	T	1.6	1.8	6.4	74	86	44	3	0	2
ND WILLISTON	82	56	91	47	69	2	T	.2	T	-.2	.1	4.1	62	88	32	1	0	3
OH AKRON-CANTON	82	66	86	62	74	4	T	.8	T	-.2	.7	13.9	148	91	58	0	0	3
OH CINCINNATI	85	67	90	62	76	2	T	.3	T	-.2	.2	13.4	134	94	60	1	0	2
OH CLEVELAND	81	64	88	58	72	3	T	.8	T	.1	.5	11.5	125	94	62	0	0	2
OH COLUMBUS	83	66	90	58	74	3	T	.9	T	.3	.4	14.4	137	91	61	1	0	4
OH DAYTON	85	66	90	59	76	3	T	.4	T	-.2	.4	15.9	171	97	57	1	0	1
OH TOLEDO	82	62	86	57	72	2	T	1.3	T	.6	1.0	12.6	140	95	68	0	0	2
OH YOUNGSTOWN	78	63	82	57	71	2	T	1.4	T	.7	.7	17.0	175	94	62	0	0	3

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

Weather Data for the Week Ending Aug. 24, 1980

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 June 2	PCT. NORMAL SINCE June 2	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE °F		PRECIPITATION	
														90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
OK OKLAHOMA CITY	101	75	105	72	88	8	.3	-.3	.1	3.6	41	63	27	7	0	2	0
TULSA	99	73	103	69	86	5	1.6	-.9	1.0	7.9	77	74	32	7	0	1	1
OR ASTORIA	63	52	64	50	58	-2	T	-.4	T	3.0	68	91	68	0	0	2	0
BURNS	79	44	86	36	61	-4	T	-.1	T	1.1	61	61	18	0	0	0	0
MEDFORD	88	49	92	45	68	-1	0	-.1	0	1.2	80	75	21	3	0	0	0
PENDLETON	80	51	85	46	65	-5	0	-.1	0	1.9	112	11	23	0	0	0	0
PORTLAND	78	55	80	50	66	0	0	-.2	0	2.5	96	85	41	0	0	0	0
SALEM	78	45	83	39	62	-4	T	-.1	T	2.0	91	93	37	0	0	0	0
PA ALLENTOWN	83	65	91	62	74	3	T	-.9	T	4.8	43	70	42	1	0	1	0
ERIE	79	65	82	60	72	3	T	-.8	T	16.4	174	11	0	0	1	0	0
HARRISBURG	81	64	89	59	72	-1	T	-.7	T	5.6	62	89	65	0	0	1	0
PHILADELPHIA	82	68	90	66	75	1	0	-.9	0	9.2	85	82	56	1	0	0	0
PITTSBURGH	80	66	85	60	73	3	.3	-.4	.1	15.9	166	95	68	0	0	1	0
SCRANTON	81	62	87	61	71	2	T	-.7	T	9.2	92	88	47	0	0	1	0
RI PROVIDENCE	77	59	92	55	68	-2	.3	-.6	.2	7.9	93	93	58	1	0	4	0
SC CHARLESTON	91	71	99	65	81	2	.7	-.7	.6	11.0	56	94	50	3	0	2	1
COLUMBIA	91	68	97	62	79	0	1.9	-.6	1.7	6.9	50	91	48	4	0	2	1
GREENVILLE	89	68	94	66	78	1	.5	-.4	.4	9.2	81	95	49	4	0	2	0
SD ABERDEEN	84	61	94	55	73	3	3.0	2.5	2.0	8.9	110	88	56	2	0	4	2
HURON	86	61	93	55	73	2	.8	-.3	.5	12.0	162	85	53	3	0	4	1
RAPID CITY	84	56	95	51	70	0	.3	0	.3	8.5	121	77	29	2	0	2	0
SIOUX FALLS	86	62	91	55	74	4	.1	-.6	.1	5.8	62	80	49	2	0	2	0
TN CHATTANOOGA	92	71	98	66	82	4	T	-.6	T	4.2	38	91	43	6	0	1	0
KNOXVILLE	91	72	95	68	81	4	T	-.7	90.8	7.1	66	89	51	4	0	1	0
MEMPHIS	97	76	102	70	87	7	0	-.7	0	11.5	121	68	32	7	0	0	0
NASHVILLE	94	69	100	64	82	4	.1	-.6	.1	7.5	78	94	40	6	0	1	0
TX ABILENE	99	75	102	73	87	4	0	-.4	0	2.9	43	73	27	7	0	0	0
AMARILLO	90	65	93	63	78	1	T	-.6	T	3.6	42	79	31	4	0	1	0
AUSTIN	99	75	102	73	87	3	.2	-.3	.2	1.7	26	82	33	7	0	1	0
BEAUMONT	96	74	100	71	85	2	T	-1.3	T	3.6	24	87	49	7	0	1	0
BROWNSVILLE	92	78	94	76	85	1	T	-.7	T	8.7	153	89	57	7	0	1	0
CORPUS CHRISTI	91	75	95	73	83	-2	0	-.8	0	13.1	196	94	56	7	0	0	0
DEL RIO	95	74	100	72	85	-1	0	-.3	0	2.9	76	87	37	7	0	0	0
EL PASO	94	68	95	64	81	1	.1	-.1	.1	2.0	62	61	23	7	0	2	0
FORT WORTH	103	77	105	74	90	5	0	-.6	0	2.0	31	65	24	7	0	0	0
GALVESTON	90	80	96	79	85	2	0	-1.0	0	5.1	44	82	59	3	0	0	0
HOUSTON	102	76	107	73	89	6	0	-1.0	0	3.9	33	92	36	7	0	0	0
LUBBOCK	91	70	94	67	80	3	.1	-.3	T	3.7	59	73	34	5	0	2	0
MIDLAND	92	67	95	64	80	-2	.1	-.2	.1	2.5	54	87	31	7	0	2	0
SAN ANGELO	96	73	98	68	84	1	.1	-.3	.1	6.7	160	82	31	7	0	1	0
SAN ANTONIO	94	74	98	71	84	0	0	-.6	0	3.3	53	93	45	7	0	0	0
VICTORIA	95	74	97	72	85	0	0	-.7	0	6.0	73	93	48	7	0	0	0
WACO	102	75	107	72	89	3	0	-.5	0	.3	5	79	27	7	0	0	0
WICHITA FALLS	105	74	108	70	89	5	0	-.4	0	.4	6	79	23	7	0	0	0
UT BLANDING	82	52	88	47	67	-3	.1	-.3	.1	.7	26	51	23	0	0	1	0
SALT LAKE CITY	86	59	93	48	73	-1	.1	-.1	.1	1.9	70	54	23	4	0	2	0
VT BURLINGTON	81	60	86	54	70	4	.2	-.6	.1	10.2	106	93	54	0	0	1	0
VA LYNCHBURG	83	66	91	60	74	1	.2	-.7	.1	5.6	53	92	1	1	0	3	0
NORFOLK	80	67	85	63	74	-3	.1	-1.2	.1	6.9	49	87	58	0	0	1	0
RICHMOND	82	66	90	61	74	-2	1.6	.5	1.6	7.8	60	98	64	2	0	2	1
ROANOKE	81	64	90	59	73	-1	1.5	.6	.9	9.9	97	97	63	1	0	4	1
WA COLVILLE	76	52	82	45	64	-2	.2	-.2	.2	3.4	425	11	0	0	0	1	0
OMAK	83	57	91	48	70	2	0	-.1	0	1.5	71	44	21	1	0	0	0
QUILLAYUTE	62	48	64	43	55	-4	.1	-.6	T	7.7	99	96	69	0	0	2	0
SEATTLE-TACOMA	70	52	73	50	61	-2	T	-.3	T	2.4	83	93	48	0	0	1	0
SPOKANE	75	51	81	48	63	-4	.4	-.3	.4	2.1	91	81	35	0	0	1	0
WALLA-WALLA	80	57	86	49	68	-5	0	-.1	.1	1.3	68	63	31	0	0	1	0
YAKIMA	84	49	87	42	67	-1	T	-.1	T	1.1	100	69	25	0	0	0	0
WV BECKLEY	77	63	82	59	70	2	3.8	3.0	2.6	14.9	130	98	65	0	0	7	2
CHARLESTON	82	68	90	66	75	2	5.2	4.4	2.6	20.4	181	97	72	1	0	6	2
HUNTINGTON	84	70	91	65	77	4	2.6	1.9	1.4	15.3	149	96	65	1	0	4	3
PARKERSBURG	82	66	89	64	75	2	2.4	1.7	1.0	14.9	135	87	58	0	0	4	2
WI GREEN BAY	82	62	86	57	72	5	2.0	1.4	1.3	10.2	121	96	61	0	0	2	1
LA CROSSE	86	66	93	58	76	6	1.2	.5	.9	12.4	122	91	56	2	0	3	1
MADISON	86	58	94	50	72	5	1.5	.8	.9	13.3	128	95	50	2	0	3	2
MILWAUKEE	80	60	85	53	70	2	.6	0	.6	13.1	146	87	56	0	0	2	1
CASPER	84	49	92	44	67	-2	T	-.1	T	1.3	48	67	16	2	0	1	0
CHEYENNE	82	51	86	42	66	0	.1	-.2	.1	3.3	60	59	22	0	0	2	0
LANDER	82	50	89	40	66	-1	T	-.1	T	.5	17	54	17	0	0	0	0
SHERIDAN	84	50	93	43	67	-1	.1	-.1	1	2.4	53	68	22	3	0	0	0
PR SAN JUAN	94	78	96	77	86	4	T	-1.5	T	5.2	30	85	51	7	0	1	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:** Temperatures 4° above normal, over 100° many locations. Little or no rain except in east central counties.

Fieldwork: 6.0 days. Soil moisture very short to short. Activities: Applying chemicals, harvesting corn and hay, and cultivating soybeans and grain sorghum. Corn 100% dented, 94% 1979, 91% average; 84% mature, 79% 1979, 59% average; 44% harvested, 33% 1979. Soybeans 94% blooming, 90% 1979; 74% setting pods, 78% 1979; 8% leaves turning, 4% 1979; 2% dropping leaves, 1% 1979. Cotton 100% setting bolls, 98% 1979; 14% bolls open, 1% 1979, 4% average. Peanuts pegging 100%. Condition: Corn poor, cotton, soybeans, peanuts, and sorghum mostly fair, pastures poor to fair.

**ALASKA:** Tanana Valley cool with measurable rain all but last day. Temperatures averaged about 4° below normal with low readings near freezing some spots. Seasonal precipitation still about 1.00 to 1.50 in. below normal. Matanuska Valley cool and moist, but warmer and dryer conditions set in over weekend. Temperatures averaged 4 to 5° cooler than normal with low temperatures near or below freezing. Rainfall totalled 0.75 to 1.00 in. most areas. Seasonal precipitation remains 3.00 to 4.00 in. above normal. Kenai Peninsula temperatures averaged about 2° below normal. Rainfall light and amounted to generally less than 0.25 in. Seasonal precipitation near normal in the north but over 2.50 in. above normal in the south. Kodiak Island had mild days and cool nights. Daily high temperatures averaging about 3° above normal and daily low temperatures around 2° below normal. Only a little rain fell, and seasonal precipitation is over 4.00 in. below normal.

After daily precipitation, warm sunny weather arrived during the weekend most areas Railbelt. Wind and rain damage to grains light. Oat and barley fields rutting color. Few fields ripened. Crop maturity behind last years pace all areas. Rainfall delayed second crop hay and silage harvesting. Frost touched scattered potato fields Tanana and Matanuska Valleys. Moderate supplies squash, cabbage, and other vegetables remain available. Topsoil moisture supplies adequate to mostly surplus. Subsoil moisture supplies mostly adequate. Other activities included preparation of grain harvesting equipment.

**ARIZONA:** During 1st half week quite dry with sunny weather. Last half marked with increase in moisture. Temperatures 1 to 4° below normal.

Cotton crop continues developing well with 100% of stands setting bolls and 9% having bolls opening. Need for insect controls continues lighter than normal. Sorghum growth progress satisfactory. Corn maturing rapidly. Alfalfa haying making good progress southwestern area with 6th cutting, other areas mostly 4th cutting. Harvest virtually all fruits, melons, mixed vegetables complete. Land preparations, planting well advanced fall, early winter crops. New crop lemon harvest just underway very limited basis. Other early variety fruit making good progress. Citrus groves generally good condition. Rains helped improve rangeland conditions. Southern ranges rated fair condition, fair to good central and northern regions. Livestock fair to good and water short south and central areas but adequate north.

**ARKANSAS:** Temperatures above normal. Little rain. Highest temperature 107°, lowest 47°. All departures from normal +1 to +7°. Most rainfall 1.24 in., least zero.

Some crop abandonment. Cattle marketed increasingly in order to reduce herd size. Soil moisture short. Fieldwork 7.0 days possible. Soybeans continued to deteriorate, shedding of leaves, pods and blooms. Some fields being cut for hay; disked under. Blooming 78%, 45% setting pods. Rice fair condition, heading 67%, 3% harvested. Cotton poor condition, setting bolls 100%, 98% 1979, 100% average. Open bolls 10%, 1% 1979, 5% average. Sorghum 10% harvested, 2% 1979. Corn poor condition. Cattle continued to suffer, lose weight. Supplemental feeding necessary. Milk production declining. Water supplies low. Pastures and meadows "burned".

**CALIFORNIA:** Although most zones had mixed mean temperature departures, the southeast interior was uniformly below normal by nearly 5°. Maximum temperatures 100° and higher were not as numerous as in the past few weeks. Only the low Desert region showed 100° and hotter every day. Rainfall confined to meager measurable amounts along the extreme north coast and scattered mountain showers.

Crops progressing normally. Few small grains unharvested. Some rice fields drained, 50% headed compared to 89% last year. Cotton 95% bolls set. Sugarbeets maturing, fall harvest nearing. Haying continues. Alfalfa seed harvest underway. Early blackeye beans being harvested. Corn harvest may begin mid-September. Safflower being harvested. Golden Delicious and Jonathan variety apples released Sebastopol district. Avocados sizing well. Dates progressing. Kadota figs started. Table grapes being picked, raisin grapes on trays. Cool weather may delay Napa Valley wine grapes. Late Legrand, Flamekist nectarines moving. O'Henry Freestone peaches, Casselman plums moving. Prune harvest progressing. Early variety almonds harvest started. Walnuts being treated for insects. Cool weather in citrus groves allowing remaining Valencia orange, grapefruit to keep better. Late season southern lemon quality suspect. Artichokes light supply. Broccoli volume lighter Central Coast. Cantaloup harvest slowed with early fields near end San Joaquin Valley. Cool nights delaying late fields. Carrot supplies moderate Salinas Valley. Cauliflower supplies moderate. Celery increased with improved market. Lettuce harvest moderate Central Coast; planting fall lettuce San Joaquin Valley. Market tomato harvest slowed San Diego; active Oxnard, Salinas, northern San Joaquin Valley. Processing tomato harvest at peak level. Ranges dry, high fire hazard many areas. Feed, water supplies good. Cooler weather returned milk, egg production normal levels. Bees being moved to cotton fields.

**COLORADO:** Warm dry conditions early replaced by cooler air mid-week. Temperatures in eastern sections warm again, late week. Rainfall amounts reached 2.00 in. in southwest mountains and 1.00 in. in central mountains.

Winter wheat harvested 99%, 99% 1979, 99% average. Barley ripe 82%, 90% 1979; harvested 60%, 58% 1979, 63% average. Spring wheat harvested 30%, 46% 1979. Corn silked 97%, 94% 1979; dough

stage 62%, 52% 1979, 55% average; dented 20%, 20% 1979, 25% average. Sorghum headed 84%, 83% 1979, 85% average. Dry beans flowered 93%, 91% 1979. Alfalfa hay 2d cutting 77%, 85% 1979, 83% average; 3d cutting 21%, 29% 1979, 26% average. Six days suitable for fieldwork. Ranges and pastures fair condition. Livestock good condition.

FLORIDA: Heavy thunderstorms hit a few spots both early and late in week. Rains in excess of 3.00 in. reported. Temperatures averaged 1 to 3° above normal.

Soil moisture adequate south and most of Gulf Coast, short all other areas. Corn and hay harvest continues, tobacco harvest complete, peanut harvest beginning. Peanuts, soybeans fair condition, need moisture. Sugarcane good to excellent condition. Panhandle and extreme northern county pastures in poor to fair condition; good to excellent, remainder of State. Cattle, mainly good condition. Citrus groves generally very good condition, rain needed in northern grove areas. Irrigation continues in drier locations. Some late bloom on oranges and speciality fruit. Planting very active for the fall vegetable season. Snap bean planting underway in the southeast. Eggplant, pepper, celery and tomato plantings increasing. Early planted acreages progressing favorably. A small early acreage of cucumbers being seeded in the west central area. Sweet corn seeding is gaining momentum in Everglades. Fall watermelons making good growth in the Sumter County area and cuke planting underway. Cabbage plants in seedbeds progressing favorably. Light transplanting expected next week.

GEORGIA: Temperatures 2 to 5° above normal. Rainfall totaled 0.50 to 2.50 in., most less than 1.00 in.

Soil moisture very short to short. Five days suitable for fieldwork. Crops many areas under moisture stress. Armyworm infestation still problem. Corn mostly poor to fair, continued salvage harvest for silage. Surviving fields 100% dough, 98% dent, 89% mature, 47% harvested, last year 44%, average 28%. Soybeans poor to fair, 41% setting pods, 5% leaf drop. Peanuts poor to fair, none dug, last year 3% and 4% average. Cotton remains poor to fair, 34% open, last year 20%. Tobacco harvested 85%, last year 96%. Apples mostly fair to good, 44% picked, 56% last year. Pecans fair to good. Pastures and hay crops poor to fair, armyworm damage increasing. Cattle mostly fair to good, supplemental feeding. Hogs fair to good.

HAWAII: Weather warm and humid. Showers generally light. Irrigation frequent in the drier areas.

Some leafy crops affected by insects and the humid weather. Vegetables, lettuce and snap bean supplies continue light. Others generally adequate. Banana supplies light. The Cavendish variety up slightly. Papaya supplies light. Rains beneficial. Pineapple harvesting decreasing. Sugar harvesting steady. Pastures generally fair to good.

IDAHO: Showers and thundershowers in various areas held up harvesting activities. Precipitation greatest in the southeastern areas. Cool temperatures accompanied the storms.

Winter wheat harvested 44%, 74% 1979, 61% average. Spring wheat harvested 36%, 35% 1979, 38% average. Spring barley harvested 34%, 39% 1979, 41% average. Potatoes good, 48% turning, 14% of the vines have died. No major problems, some frost damage. Early peach and pear picking. Range remains good. Fieldwork: 5.0 days.

ILLINOIS: Temperatures 1 to 5° above normal. Precipitation 0.50 to 2.00 in. north, none other areas.

Soil moisture 13% surplus, 58% adequate, 29% short. Corn condition 9% excellent, 20% good, 52% fair, 19% poor; 93% dough, 81% last year, average 87%; 64% dented, 32% last year, average 57%. Soybean condition 7% excellent, 42% good, 45% fair, 6% poor; 96% setting pods, 89% 1979, 93% average; 6% turning yellow, 2% 1979, 11% average. Winter wheat acreage 58% plowed, 44% 1979, 55% average. Alfalfa 4% excellent, 47% good, 43% fair, 6% poor; 3d crop cut 54%, 43% 1979, 50% average. Pastures 3% excellent, 36% good, 40% fair, 21% poor. Days suitable for fieldwork: 4.3.

INDIANA: Warm week. Temperatures ranged from 50 to 96°. Showers early in period totalling 0.10 in. southwest to 2.40 in. east central. One in. northwest and southeast, elsewhere 0.50 to 1.20 in. Humidities above normal.

Fieldwork averaged 2.0 days. Topsoil moisture mostly adequate to surplus. Subsoil moisture mostly adequate. Corn 90% in dough, 1979 90%, average 80%. Corn 35% dented, 1979 20%, average 40%. Corn condition fair to good. Soybeans 95% setting pods, 1979 90%, average 80%. Soybeans 5% turning yellow, 1979 5%, average 10%. Soybean condition fair to mostly good. Winter wheat land 20% plowed, 1979 15%, average 30%. Silos 5% filled, 1979 5%, average 10%. Peaches 75% picked, 1979 65%, average 65%.

IOWA: Temperatures averaged 3 to 5° warmer than normal with moderate to heavy rains over northeast but generally light rain elsewhere.

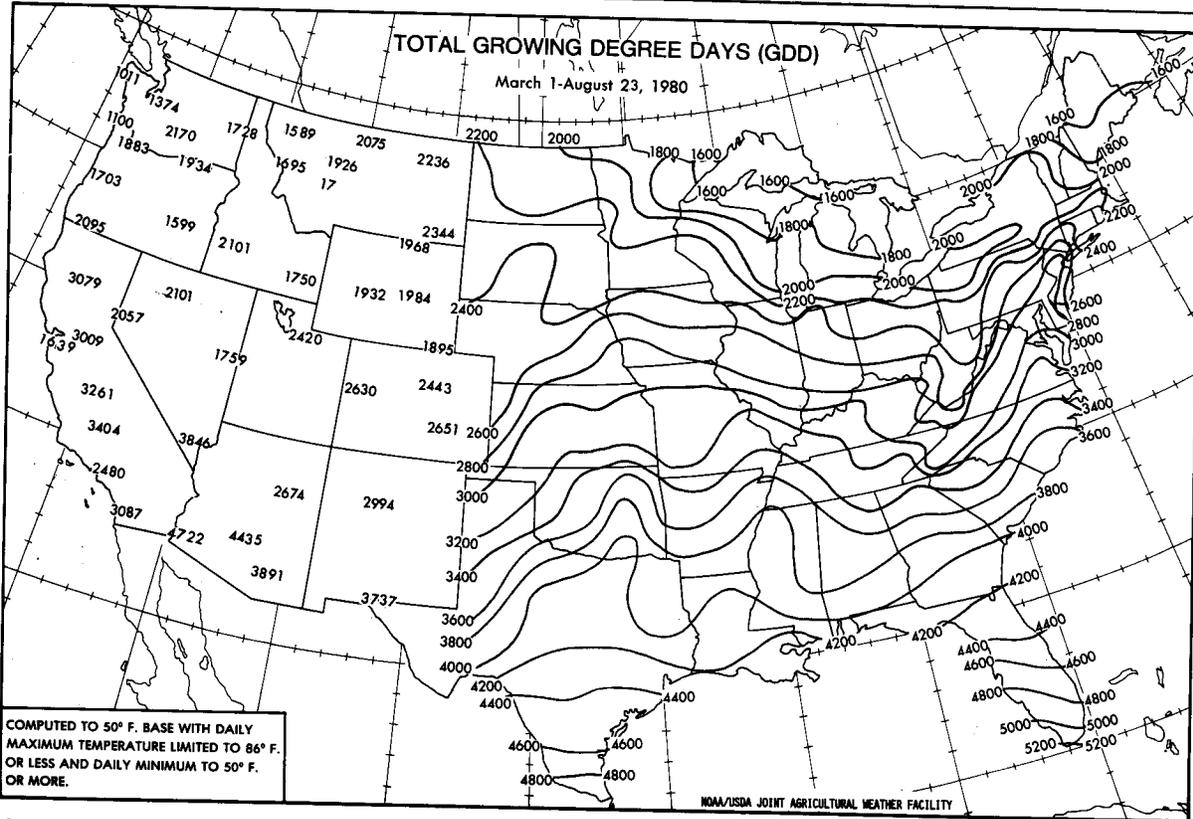
Fieldwork: 3.3 days favorable. Topsoil moisture: 3% short, 82% adequate, 15% surplus. Subsoil moisture: 24% short, 67% adequate, 9% surplus. Corn in or past milk stage: 99%, 1979 100%, normal 99%. Corn in or past dough stage: 79%, 1979 75%, normal 85%. Corn in or past dent stage: 45%, 1979 15%, normal 42%. Pods setting: 100%, 1979 100%, normal 100%. Soybean leaves turning: 11%, 1979 3%, normal 13%. Second crop clover hay harvested: 92%, 1979 92%, normal 85%. Third crop alfalfa hay harvested: 45%, 1979 39%, normal 43%. Crop conditions improved. Pasture condition fair to good. Grain movement increased. Market movement normal.

KANSAS: Significant precipitation limited to extreme southeast where 1.00 to 2.00 in. common. Otherwise, moisture spotty and mostly less than 0.25 in. Up to 1.00 in. northwest and west central. Temperatures averaged 78 to 83°, ranging 1 to 3° above normal south, east central and west central to 4 to 6° above normal elsewhere.

Corn dough 75%, last year 75%, average 80%. Corn dent 35%, last year 30%, average 45%. Soybeans podding 80%, last year 75%, average 75%. Sorghum headed 70%, last year 80%, average 70%. Sorghum coloring 20%, last year 15%, average 20%.

KENTUCKY: Highs averaged mostly in the 90's with lows in the 60's. Precipitation varied widely with scattered thunderstorms occurring almost daily. Heaviest amounts averaged from 1.00 to 2.00 in. in southeast.

Soil moisture 25% very short, 30% short, 42% adequate and 3% surplus. Drought conditions in extreme west, crop prospects poor in this area, fair most other areas. Corn suffering the most. Corn development: 14% mature, 43% dented but not mature, 35% dough, and 8% milk or earlier. Soybeans 90% blooming or podding and holding up better than corn from dry conditions; concern over how



well beans are filling. Burley 9% cut, 12% a year ago and 14% average. Dark types 8% cut. Overall tobacco prospects fair but highly variable. Pastures poor in west, mostly fair elsewhere.

**LOUISIANA:** No rain. Temperatures 1 to 5° above normal. Record highs. Extremes: 62 and 106°. Soil moisture very short to short. Fieldwork: 6.1 days suitable. Main activities: Harvesting, insect control, preparing land for fall planting. Corn poor to fair. Mature 86%, 94% 1979. Harvested 42%, 32% 1979, 32% average. Cotton poor to fair. Open bolls 24%, 1% 1979. Rice fair to good. Headed 94%, 92% 1979. Ripe 72%, 66% 1979. Harvested 63%, 54% 1979, 57% average. Sorghum poor to fair. Headed 95%. Turning color 75%, 77% 1979. Ripe 48%, 40% 1979. Harvested 14%, 12% 1979. Soybeans poor to fair. Bloomed 92%, 92% 1979. Set pods 70%, 76% 1979. Turning color 4%, 0% 1979. Sugarcane fair to good. Vegetables poor. Harvesting summer crop. Planting winter crop. Sweet potatoes fair. Harvested 27%, 16% 1979. Pastures poor to fair. Haying limited. Livestock fair to good. Some supplemental feeding.

**MARYLAND & DELAWARE:** Temperatures averaged 3° below normal. Highs upper 70's to low 80's, lows mid 60's. Precipitation varied. Corn 65% dough, 50% dented. Harvest for silage, 10%. Soybeans 80% bloomed, 50% podded, last year 90% bloomed and 55% podded. Tobacco 25% harvested. Cantaloups and Irish potatoes 90% harvested. Sweet potato harvest just started. Fourth cutting alfalfa underway. Third cutting clover 95%. Soil moisture short to adequate. Fieldwork: 5.5 days suitable.

**MICHIGAN:** Above normal temperatures reported throughout State. Temperatures in the Upper

Peninsula and in the northern Lower Peninsula averaged 5 to 6° above normal. Over the rest of the State, average temperatures were 3° above normal. Heavy precipitation fell over much of Lower State with the heaviest amounts in the west central portion which had 5.50 in. The Central Lower and south Central Lower Peninsula had over 2.00 in. rain.

Heavy rains virtually halted fieldwork in Southern Lower. Vegetables and dry beans continue to be plagued by moisture-caused diseases. Corn and soybeans continue heavy growth. Maturity slightly delayed for soybeans and dry beans. Corn having reached dough stage 74%, 63% last year, 76% normal. Corn in dent stage 12%, 6% last year, 20% normal. Soybeans pods set 80%, 100% last year and normal. Dry beans pods set 94%, 100% last year and normal. Dry beans leaves turning color 31%, 53% last year, 59% normal. Oats harvested 85%, 72% last year, 88% normal. Completion of harvest delayed in south. Hay 2d cutting complete 75%, 80% last year, 86% normal. Many fruits and vegetables being harvested. Much fire blight in apples.

**MINNESOTA:** Temperatures averaged 3 to 7° above normal. Extremes: 94 and 46°. Precipitation averaged near normal in the southern and central districts, 1.00 in. above normal in the northeast district, nearly 2.00 in. above normal in the north central and northwest districts.

Rainfall replenished dry topsoils. Several areas surplus. Row crops improved. Field corn ears filled better. Smaller than normal, some blank spots. Soybeans better, heavier filled pods. Sunflowers, potatoes, sugarbeets growing well. Dry sunny weather needed to mature. Harvest slowed by wet fields. Sprouting became widespread. Pastures and hay good. Field corn in dough 78%, 1979 18%, normal 69%; denting 24%, 1979 0%, normal 32%;

mature 1%, 1979 0%, normal 3%; silage cut 3%, 1979 0%, normal 2%. Soybeans turning yellow 13%, 1979 1%, normal 15%; shedding leaves 1%, 1979 0%, normal 2%. Combined: Spring wheat 73%, 1979 12%, normal 62%; oats 91%, 1979 38%, normal 80%; barley 92%, 1979 51%, normal 83%. Seeded: Winter wheat 6%, 1979 0%, normal 5%; rye 6%, 1979 0%, normal 4%. Sweet corn for processing: Harvested 53%, 1979 21%, normal 45%.

MISSISSIPPI: Temperatures 2 to 3° above normal. Extremes: 56 and 105°. No reports of more than 0.75 in. of rainfall.

Soil moisture very short to short. Fieldwork: 6.3 days suitable. Conditions worsened for most crops. Hay quality deteriorated and the quantity has been reduced. High temperature caused premature development of some crops. Hay 76% harvested, 75% 1979, 76% average. Sorghum silage 53% harvested, 47% 1979. Peanuts 6% harvested, 9% 1979. Peaches 97% harvested, 99% 1979. Watermelons 94% harvested, 97% average. Corn for silage 78% harvested, 65% 1979. Sweetpotatoes 7% harvested, 10% 1979, 17% average. Soybeans 94% blooming, 98% average; 67% podding, 73% 1979, 69% average; 3% turning, 3% 1979; condition fair to poor. Corn 97% dented, 97% 1979; mature 54%, 55% 1979; 11% harvested, 9% 1979; condition poor to fair. Cotton 13% open bolls, 1% 1979, 11% average; condition mostly fair. Rice 89% headed, 80% 1979, 74% average; 39% turning, 19% 1979; 4% harvested; mostly fair condition. Sorghum 88% headed, 93% 1979; -ripe 25%, 25% 1979; 10% harvested, 5% 1979. Pasture fair to poor condition. Pecans poor to fair condition.

MISSOURI: Temperatures averaged 3° above normal. Precipitation averaged 0.75 to 1.25 in. except in the Bootheel and east Ozarks where it averaged 0.25 in. or less.

Fieldwork: 5.4 days suitable. Corn 88% in dough stage or beyond, last year 83%, normal 77%. Corn 66% dented, last year 49%, normal 57%. Grain sorghum 84% headed, last year 85%, normal 85%. Grain sorghum 19% mature, last year 7%, normal 15%. Soybeans 93% blooming or beyond, last year 86%, normal 92%. Soybeans 75% setting pods, last year 63%, normal 68%. Alfalfa hay 3d cutting 80% harvested, last year 66%, normal 65%. Cotton 19% with open bolls, last year 8%, normal 5%. Condition of cotton, corn, soybeans, pasture and grain sorghum poor to fair.

MONTANA: Cool week again as temperatures ranged 2° below normal in northeast, southeast, south central and southwest to 5° below normal in north central and central areas. Extremes: 97 and 31°. Some heavy rain with snow in higher mountains northern portion of west and north central. Some moderate rain over scattered areas late week. Dry in southeast.

Topsoil and subsoil moisture still short eastern third, short to adequate elsewhere. Fieldwork: 5.0 days suitable. Crop progress...Harvested: Winter wheat 65%, 1979 85%, normal 80%; spring wheat 45%, 1979 30%, normal 35%; barley 45%, 1979 30%, normal 40%; oats 45%, 1979 45%, normal 45%. Ripe but not harvested: Winter wheat 35%, 1979 15%, normal 20%; spring wheat 40%, 1979 30%, normal 30%; barley 40%, 1979 30%, normal 30%; oats 35%, 1979 20%, normal 30%. Turning color: Spring wheat 15%, 1979 30%, normal 30%; barley 15%, 1979 35%, normal 25%; oats 20%, 1979 30%, normal 20%. Second cutting alfalfa 55%, 1979 70%, normal 30%. Stock water and range feed supplies short eastern third. Ten percent of cattle and 15% of sheep moved from summer ranges compared with normal of 5% for both sheep and cattle.

NEBRASKA: Precipitation widespread. Amounts varied from 0.50 in. in Panhandle to 2.00 in. in the east. Temperatures 2 to 4° above normal.

Dryland corn mostly poor to fair. Irrigated corn fair to mostly good. Dough 80%, 70% last year, 80% normal. Denting 35%, 5% last year, 40% normal. Soybeans mostly good to fair. Podding 98%, 95% last year, 97% normal. Turning 10%, 5% last year, 10% normal. Sorghum mostly fair to good. Turning 45%, 15% last year and 30% normal. Third cutting of alfalfa 60% harvested, 50% last year. Topsoil moisture short to mostly adequate. Subsoil moisture mostly short to adequate. Pasture and range feed supplies mostly short. Cooler weather eased livestock stress. Days suitable: 4.8.

NEVADA: Typical late summer weather early with sunny skies and moderate temperatures. Showers widespread north and west.

Ranges benefitted from scattered showers, but rain temporarily delayed small grain and hay harvests. Potatoes showing good growth.

NEW ENGLAND: High temperatures up to 10° above normal. Lows near normal. Rainfall early week 0.50 in Rhode Island to zero in northern Maine.

Fieldwork: 2 to 4 days suitable central, 5 to 6 elsewhere. Hay harvest hampered by weather, 60% of second hay crop cut. Some third crop cut. Corn progressing nicely. Potato harvest underway South. Potatoes smaller than normal in non-irrigated fields. Maine potatoes sizing nicely. Apple picking started. Crop prospects good. Peaches in good supply. Blueberry harvest nearly over. Cranberries turning color and are small to average size. Vegetable supply good. Some early and late blight in tomatoes. Soil moisture adequate, except in cranberry area where it is very short. Grazing conditions mostly adequate.

NEW JERSEY: Temperatures averaged 1 to 3° below normal. Extremes: 51 and 92°. Most stations received little or no rainfall. Estimated soil moisture, in percent of field capacity, averaged: 53 north, 46 central and 48 south.

Fieldwork: 6.1 days suitable. Soil moisture adequate in some areas of south but very short in other areas. Soil preparation and planting begun for alfalfa and fall grains. Summer vegetable harvest declining. White potato digging continues active. Harvest over 50% complete. Peach harvest making good progress, harvest of Blake and Jersey-queen begun. Third cutting of hay advancing. Some field corn and soybean hurt by dry conditions. Pasture growth limited.

NEW MEXICO: Soil moisture still short several areas. Dryland crops and ranges remain mostly poor although some improvement from rains expected. Irrigated crops mostly fair to good. Cotton good condition, earliest fields in south just starting to open, well ahead of last year, but near normal. Haying 50% fourth cut in south and varying between second and third cuts in north. Worms still a problem. Winter wheat planting started East side. Some intended corn for grain being cut for ensilage. East side due to earlier high temperature damage. Irrigated grain sorghum fair condition with heading well advanced. Fall lettuce emerging variable stands. Onion harvest nearing completion. Livestock mostly fair to good.

NEW YORK: Temperatures warm, rainfall light. Wheat harvest done. Oat combining 60% done, 75% 1979, 74% average. Second cutting alfalfa 75% in. 80% 1979, 81% average. Third cutting 21% done, 19% 1979, 22% average. Potato harvest moving rapidly on Long Island. Early Upstate

potato, onion, cabbage, tomato harvests underway. Sweet corn, snap beans 60% harvested. Late potatoes in good condition. Early variety apple harvest advancing all areas. Bartlett pear harvest to begin next week.

**NORTH CAROLINA:** Temperatures near normal. Precipitation 0.20 to 3.00 in.

Fieldwork: 5.8 days suitable. Soil moisture: 24% very short, 53% short, 22% adequate, 1% surplus. Conditions: Pastures poor to fair; cotton mostly fair to good; field tobacco, corn, peanuts, soybeans, hay, sorghum grain fair; apples, sweetpotatoes fair to good. Harvested: Sweetpotatoes 9%, 1979 7%, average 8%; flue-cured tobacco 62%, 1979 70%, average 66%; burley tobacco 6%; corn for grain 6%; corn silage 38%; apples 12%, 1979 20%, average 17%; hay 75%, average 78%. Phenological stages: Cotton 12% opened bolls, 1979 10%; corn soft dough 96%; corn dent 87%, 1979 77%; corn mature 63%, 1979 61%; soybeans bloomed 84%, 1979 75%; soybeans pod set 53%, 1979 40%.

**NORTH DAKOTA:** Rain dampened much of state for third week in a row. More than 2.00 in. fell in extreme eastern portion. More than 1.00 in. was the rule throughout remainder of eastern and central areas. However, in west, rainfall variable and light. Temperatures varied from near normal north central to 5° above normal southeast. Extremes: 98 and 39°.

Harvest further delayed by wet weather and sprout damage increased for spring wheat and durum laying in swath. Approximately 25% of wheat and durum in swath. Sprout damage has been severe to some durum laying in swath in important north central-northeast production area. Statewide swathing and combining percentages followed by previous year and normal are: Hard red spring wheat 72, 46, 70; durum 52, 23, 71; barley 76, 73, 84; oats 82, 66, 81, and flax 22, 4, 80. Row crop prospects generally much improved. Sunflower rated 44% good to very good; 44% fair and 12% poor. Killing of potato vines at 8% and a few potatoes have been dug. Pasture growth much improved with only 46% with growth poor vs. 68% poor last week. Topsoil moisture mostly adequate to plentiful with some surplus. Subsoil recharging but still mostly short.

**OHIO:** Rainfall continued to be plentiful. The average was 1.60 in., 0.90 in. above normal. Temperatures averaged 2° higher than normal. Extremes: 93 and 52°.

There are yellow spots on soybean pods in some fields in northern third of the State. Mexican bean beetles are in fields in west central and southwest parts of the State; aerial spraying has been reported. If surplus moisture continues, replanted soybeans and corn may be very late in maturing. Livestock have not been stressed. Corn in dough or beyond 90%, 95% 1979, 95% average. Corn in dent 25%, 20% 1979, 40% average. Soybeans pods set, leaves green 60%, 65% 1979, 65% average. Tobacco topped 75%, 60% 1979, 65% average. Days favorable 1.5. Pasture condition good. Soil moisture mostly surplus.

**OKLAHOMA:** Temperatures average from 2° above normal in the Panhandle to 6° above normal in the southeast. Maximum readings of 100° and above were common at most stations. The only division to receive no rainfall was the south central division. All other divisions reported precipitation ranging from 0.07 in. in the east central to 0.56 in. in the northeast division. Most precipitation occurred during the latter part of the week.

Scattered rains brought temporary relief; however, widespread rains coupled with cool temperatures needed to relief drought. Wheat seedbeds prepared 20% 1980, 25% 1979, 35% average; sorghum heading 80% 1980, 75% 1979, 90% average; sorghum milk to dough 45% 1980, 25% 1979; 55% average; sorghum mature 15% 1980, 5% 1979, 10% average. Cotton setting bolls 70% 1980, 80% 1979, 85% average. Fieldwork: 6.2 days suitable.

**OREGON:** Temperatures near normal along coast and Willamette Valley; 1 to 6° below normal east. Precipitation mostly along coast with up to 0.50 in. only other precipitation was in north central and eastern sections, averaging from traces to 0.10 in.

Soil moisture supplies mostly short to adequate. Winter wheat 87% harvested; 95% 1979. Some shrivel in western fields, some wheat being stored on ground. Mint harvest continuing. Ground preparation for fall planting underway. Bartlett pear harvest in full swing; early apple and peach harvest continuing. Blackberry harvest in full swing; low prices may shorten picking season. Cranberry bogs need water due to lack of rain. Filberts starting to turn color. Sweet corn harvest started; bean, broccoli, and other vegetables continue to be harvested. Onions going down in western portion; harvest underway in Malheur County. Potatoes look good in all areas, early area harvest continuing. Livestock condition mostly good. Range and pastures mostly fair in west, mostly good in east. Pastures in western valleys drying fast.

**PENNSYLVANIA:** Temperatures averaged near normal in the central mountains and 1 to 3° above normal elsewhere. Precipitation mostly less than 0.50 in. except isolated spots in the southwest where 4.00 to 5.00 in. were recorded.

Six days suitable. Soil moisture short to adequate. Activities: Combining oats, baling hay and straw; clipping pastures; plowing; harvesting tomatoes, snap beans, cucumbers, squash and potatoes; topping and harvesting tobacco. Oats 85% combined; last year 87%. Tobacco harvest 18%; last year 20%. Potato harvest 25% complete; last year 28%. Ensilage corn harvest 12%; last year 5%. Corn 32% silked, 55% in dough and 13% in dent; last year 32% silked, 47% in dough and 11% in dent; average 32% silked, 51% in dough and 14% in dent. Fall plowing 27%; last year 20%. Alfalfa second cutting is 88%; last year 81%. Third cutting alfalfa 36%; last year 29%. Second cutting clo-tim 80%; last year 63%. Hay quality good to fair. Feed from pasture below average to average.

**PUERTO RICO:** Island average rainfall 0.83 in. or 0.88 in. below normal. Temperatures averaged 82° on coasts and 76 to 77° interior divisions. Extremes: 97 and 54°.

**SOUTH CAROLINA:** Drier portion hotter than usual, most received some relief from heat. West central, north west rainfall very scattered; general elsewhere. Heaviest in north, central.

Days available for fieldwork: 6.0. Rains halting row crop deterioration. Corn condition poor to fair. Some had little or no corn for grain, corn 85% mature, 84% year ago, 82% average; 27% harvested, 34% year ago, 31% average. Cotton stalks, bolls smaller than usual, condition poor; some near defoliating stage, premature opening of bolls common, few re-blooming as producers gamble on top crop; 48% of acreage open bolls, 7% year ago, 16%

average. Soybeans poor to fair condition, rains helping lateral growth, setting pods 55%, 72% 1979, average 61%. Tobacco condition fair, harvesting quality improving, 77% harvested, 97% year ago, 92% average. Peaches poor to fair condition, 91% harvested, slower than 98% last year. Grapes, apples fair, previous hail damaged some apples. Feeding hay since pasture conditions poor, greening where rains fell, more needed to develop cover. Fall snap beans 47% planted, 84% last year. More rain needed where stressed. Fall cucumber planting at 54%, near 57% last year. Peanut condition poor to fair; blooming and pegging. Some growers expect to delay digging in hopes of more pegs.

**SOUTH DAKOTA:** Hot temperatures with scattered showers and thunderstorms. Temperatures ranged from 2° above normal to 1° below in the west and 3 to 6° above in the central and east. Extremes: 103 and 41°. Rainfall ranged from 0.25 in. in west to 1.50 in. in north and east central.

Grain sorghum, soybean and sunflower conditions improved. Dryland corn in eastern one-third good to excellent, western two-thirds very poor to fair, much of this acreage will be cut for silage or grazed. Pasture and range greened up. Fall sales of calves and yearlings have increased. This is about a month earlier than normal. Producers are purchasing hay for the winter. Sunflowers bloomed 94%, 88% 1979, 88% average. Soybeans setting pods 96%, 83% 1979, 96% average. Flax harvested 45%, 12% 1979, 53% average. Corn in dough stage 67%, 52% 1979, 66% average. Corn dented 28%, 10% 1979, 29% average. Grain sorghum headed 86%, 85% 1979, 85% average. Grain sorghum showing color 28%, 22% 1979, 19% average.

**TENNESSEE:** Generally hot and dry, cooling near weekend. Temperatures averaged 3 to 5° above normal east and 4 to 7° above middle and west. Rainfall spotty, averaging less than 1.00 in.

Fieldwork: 5.6 days suitable. Soil moisture mostly short. Activities: Burley tobacco harvest, spraying for insects, harvesting corn for silage. Corn 70% dented, 1979 56%, average 67%. Corn 22% mature, 1979 8%, average 15%. Cotton 5% open bolls, 1979 2%, average 10%. Many bolls drying open. Soybeans 100% blooming, 1979 100%, average 91%. Soybeans 81% setting pods, 1979 81%, average 55%. Burley tobacco 70% topped; 20% harvested, 1979 32%, average 22%. Lespedeza hay harvest 55% complete, 1979 48%, average 40%. Pastures remain poor. Cattle good, many herds being fed hay and silage.

**TEXAS:** Weather: Temperatures 2 to 4° above normal north central, northeast, near normal elsewhere. Average temperatures upper 70's northwest, middle 80's eastern half. Rainfall 0.25 to 0.75 in. below normal.

**Commercial vegetables:** In Lower Rio Grande Valley, vegetables planting resuming as fields dry out from Hurricane Allen. Replanting of vegetables planted before hurricane occurring. In Coastal Bend area, land preparation, planting of fall vegetables continues. Early planted fields up to stand. In San Antonio-Winter Garden area, drying has enabled resumption of land preparation, planting of fall vegetables. In South, preparations for fall plantings continued. In East, harvest late cantaloups, watermelons continued. Fall garden being prepared, planted. Irrigated sweetpotatoes progressing well. In North, harvest cantaloups, watermelons nearing completion. Some early pea harvest reported. Preparation, planting of fall gardens progressing. In Trans-Pecos, cantaloups, honeydew melons, watermelons, peppers, onions

being harvested. On High Plains, onion, potato harvest about complete. Cucumber, tomato, pepper harvest still active. Peach harvest continued North, High Plains. Pecan droppage caused by moisture stress continued. Some areas report insect damage.

**Range and livestock:** Ranges remained poor most areas. Moisture supplied by Hurricane Allen induced some greening of grasses south, but more moisture needed to improve prospects for winter grasses. Rains on High and Low Plains promoted some greening. Supplemental feeding still necessary. Livestock remain fair to good condition. Marketing of calves and cull cows continued.

**Crops:** Hot temperatures continued. Scattered showers fell, did not provide sufficient relief. Remaining dryland cotton, corn, sorghum continue to wilt from soil moisture shortage. Harvesting and preparing land for fall wheat planting major activities. Cotton harvest ahead of previous years. Dryland fields suffered tremendously from lack of moisture. Fields wilting, shedding squares, dropping bolls. Plains dryland fields being shredded, plowed for disaster payments. Irrigated fields fair to good, being threatened by buildup of bollworms. Southern Gulf Coast, Rio Grande Valley remaining stands destroyed by Hurricane Allen. Modules soaked by Allen's rains causing ginning difficulties. Sorghum harvest 69% complete. Harvest moved northward to Plains. Many dryland fields have matured earlier than expected. Drought damaged many fields severely. Many abandoned, grazed out. Irrigated fields in fair condition. Corn showing effects of drought, many dryland fields being grazed, cut for silage. Plains silage cutting is active or about to begin. Plains producers continue to spray for corn borer, mites. First cutting of rice virtually complete. Peanut harvest expected to begin soon. Dryland fields maturing rapidly. Irrigated fields in fairly good condition. Producers spraying to avoid a possible buildup of worms. Soybeans have benefitted from rains, late planted fields now filling pods. Many fields flooded by Hurricane Allen now drying. Losses will be substantial. Hay harvest wrapping up. Production expected to be short for winter feeding. Recent showers promoted some growth, too late for many areas. Cotton setting bolls 99%, 94% 1979. Cotton open bolls 22%, 15% 1979. Cotton harvested 12%, 7% 1979, 8% average. Rice harvested 100%, 95% 1979, 90% average. Sorghum harvested for grain 69%, 56% 1979, 57% average; Corn for grain harvested 39%, 23% 1979, and 23% average.

**UTAH:** Isolated shower and thunderstorm activity many areas. Accumulated amounts moisture generally light to moderate. Cooling trend in temperatures. Averages ranged from 2 to 10° below normal.

Entire week suitable for fieldwork. Scattered hail damage associated with thunderstorms. Soil moisture short but irrigation water remains adequate. Small grain harvest well along. Winter wheat 80% harvested, barley 70%, spring wheat 63% and oats 36%. Alfalfa harvest ranges from second crop at higher elevations to fourth extreme southwest. Major producing counties beginning third crop. Sweet corn and snap beans for processing at harvest peak. Tomato harvest beginning. Early peaches on market but will be more plentiful after September 1. Field corn has tasseled, but is behind normal development.

**VIRGINIA:** Fall weather prevailed as temperatures dropped to slightly below normal with average in low 70's.

(continued on page 16)

## International Weather and Crop Summary

August 18 - 24

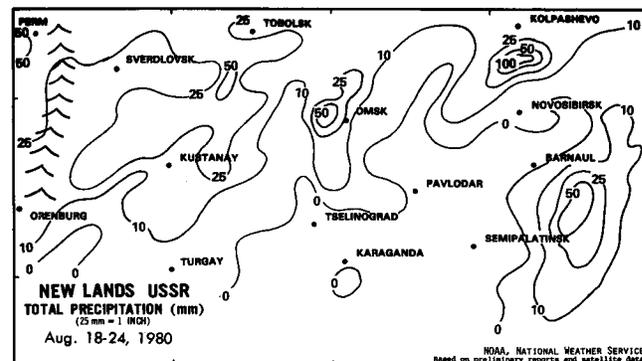
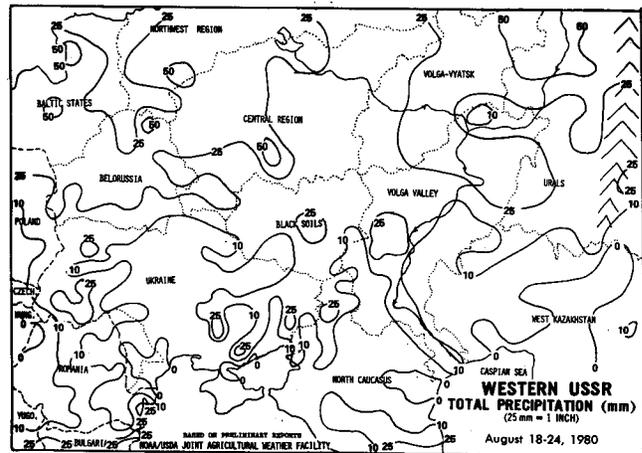
**HIGHLIGHTS:**

- USSR:** Harvesting winter grains in the northwest...conditions too wet. Harvesting spring grains in the southern New Lands...improved harvest weather.
- EUROPE:** Harvesting winter grains in the north...some areas too wet.
- CHINA:** Spring-sown crops nearly mature in central areas\*...excessive water causing damage.
- INDIA:** Rice heading in the north\*...drier in the northwest. Cotton in vegetative stage in central areas\*...generally good soil moisture.
- THAILAND:** Wet season rice crop in vegetative stage\*...monsoon rains continue.
- AUSTRALIA:** Winter grains semi-dormant\*...beneficial rains in east, dry in west.
- ARGENTINA:** Winter grains semi-dormant\*...dry weather continues.
- BRAZIL:** Winter grains semi-dormant\*...too wet in northern crop area.
- CANADA:** Cereal crops ripen...wet in the east and north, favorable weather elsewhere.
- MEXICO:** Cotton bolls opening in the north...heavy rains may cause problems.

\*Based on normal crop calendar information.

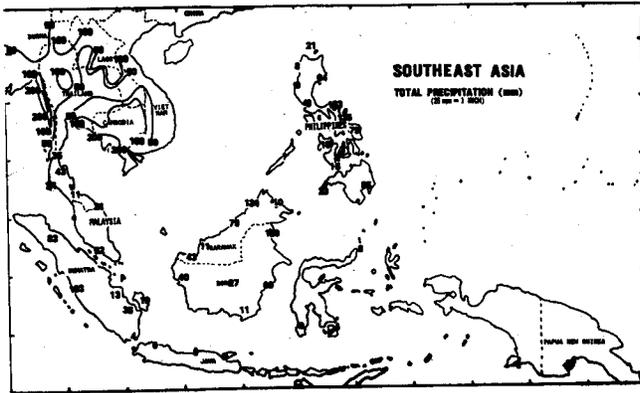
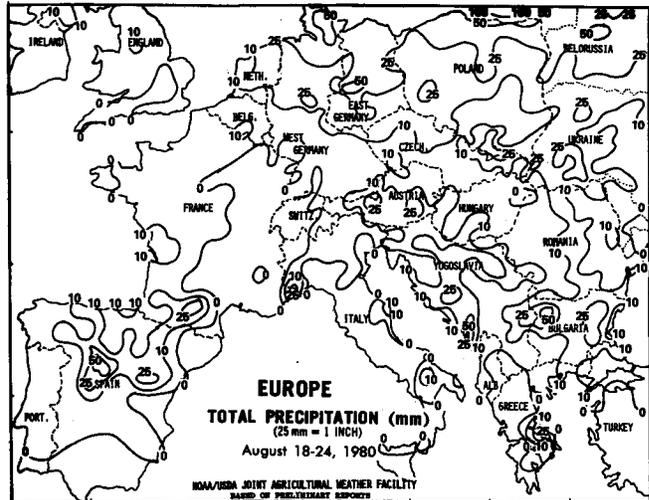
**USSR.** Harvest weather improved in the Ukraine, but most central and southern portions had already completed the winter grain harvest. Continued above-normal rainfall hindered harvesting across the north. Heaviest rainfall occurred in the northwest, where harvest delays have been the greatest, and farmers will be hard-pressed to get next year's winter grain sown on time. Some above-normal rains in the eastern Ukraine probably benefited row crops, but cooler than normal conditions continued to limit growth. Spring grain harvesting in the upper Volga Valley was hindered by a second consecutive week of wet weather, but delays have not yet become serious.

In the New Lands, above-normal rainfall occurred in the northwest and extreme southeast. This wet weather impaired harvest of spring grains, but other widespread areas across the south and east saw improved harvest weather as a mild "sukhovei" briefly touched the southern fringes of the crop area.



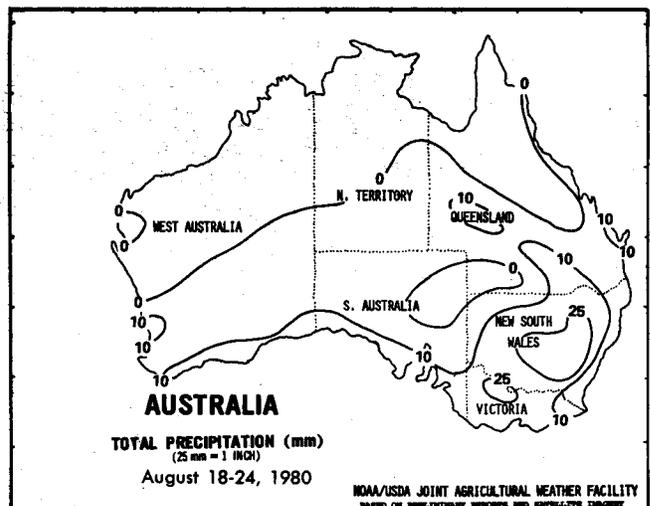
NOAA, NATIONAL WEATHER SERVICE based on preliminary reports and satellite data

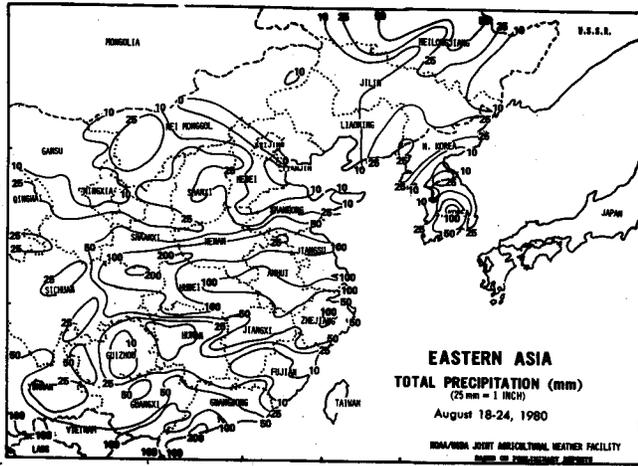
**EUROPE.** Weather in grain harvest areas of northern Europe remained quite variable again this week. Much of the west had favorable harvest weather, and even though parts of the east had above-normal rains, the pattern was such that they fell on areas which had been relatively dry during the previous week. Thus, there has not been a return to the persistent wet pattern of July. Only in some eastern hilly areas has wet weather persisted so far in August. However, temperatures stayed below normal over most of the region, so conditions were not entirely favorable for grain harvesting or development of row crops.



**SOUTHEAST ASIA.** The summer monsoon continued to produce seasonal rainfall throughout Thailand. The northern rice crop benefited from nearly 100 mm of rain, while crops in the Central Plains received about 50 mm. In the proximity of Bangkok, weekly totals were somewhat less, generally around 35 mm, but ample moisture was available for crop growth. The abundant rain has helped alleviate the water supply problem due to low reservoir levels at the beginning of the monsoon season. Additional moisture is still needed, however, to fill the reservoirs.

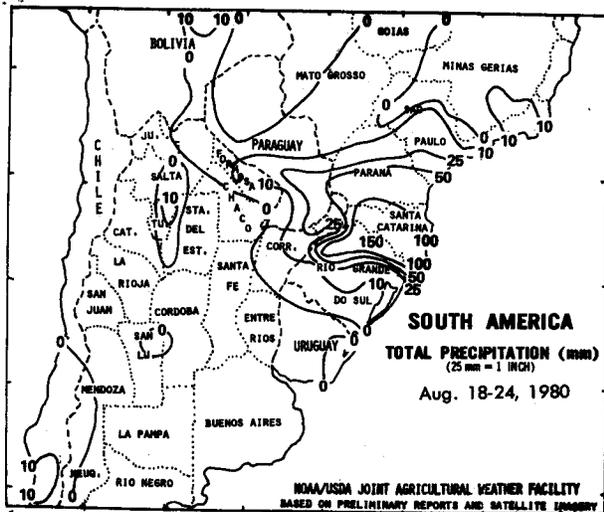
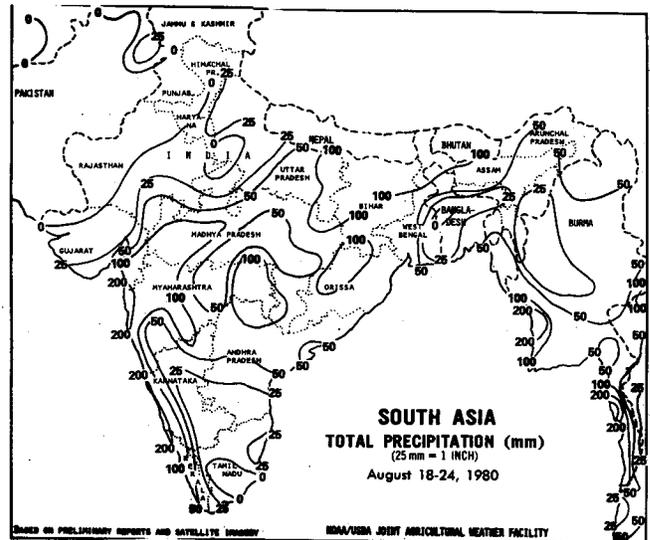
**AUSTRALIA.** Showers late in the week produced substantial amounts of rain (about 30 mm) in the important winter wheat area of New South Wales. The crop area in Victoria also received 10 to 25 mm of moisture. The rain was particularly beneficial in New South Wales where dry conditions had prevailed recently. Other winter wheat areas of Australia received minimal weekly totals. Moisture is needed in Queensland. Vigorous spring growth should begin in another month.



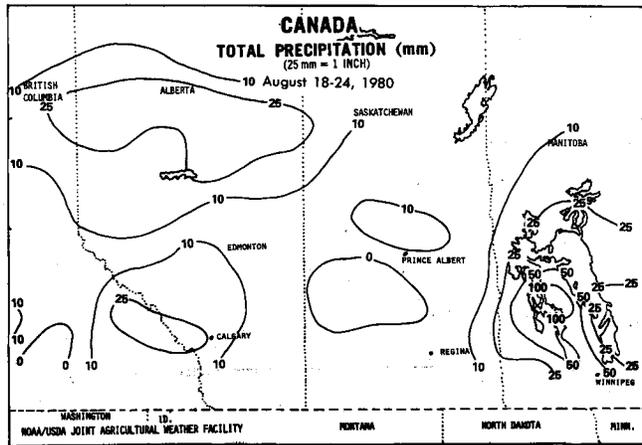


**CHINA.** Wet weather continued in the Yangtze Valley, with most locations receiving three to four times the normal rainfall. Cotton and rice should be nearly mature in this important growing area, and substantial losses may have been sustained from intense rainfall and widespread flooding. The rains spread northward into Henan and northern Anhui, but flooding should be minimized due to previous drier conditions there. Drier weather returned to much of Hebei, with moisture still in short supply. Much of Heilongjiang received beneficial rainfall—conditions were becoming too dry there, and these rains may help, though crops should be well along. In the extreme south, drier weather returned to the hills south of the Yangtze, which had been wet the previous week. Coastal areas to the west of Hong Kong were drenched with some excessive rainfall from a tropical system at the weekend; however, late rice may not yet have been in a susceptible stage in the growth cycle.

**SOUTH ASIA.** Rainfall decreased sharply in western Uttar Pradesh, and floodwaters should retreat somewhat. Above-normal rains continued to the east, however, prolonging the problem of excessive water in the lower Ganges Basin. At least this will keep irrigation supplies up in Bangladesh, where many areas experienced a second consecutive week of only light rainfall. Upland areas across central India remained beneficially wet as above-normal rains continued. Conversely, dry weather persisted in southwestern Tamil Nadu and some interior portions of Karnataka, putting stress on cotton and groundnuts.

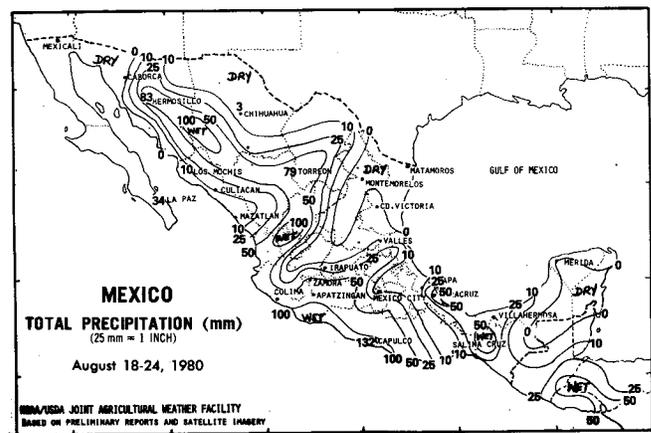


**SOUTH AMERICA.** Dry weather continued in Buenos Aires Province in Argentina. August rainfall has been minimal in Argentina's winter wheat area. In Brazil, light rain fell in the southern portion of Rio Grande do Sul State, but heavy showers produced weekly totals of 100 to 150 mm in the northern portion as well as in Santa Catarina State. The heavy rain may have caused some fields to become waterlogged. Rainfall in Parana State ranged from 50 mm in the south to about 10 mm in the north.



**CANADA.** Weekly rainfall was well above average in Manitoba with amounts ranging from 50 to 100 mm in the spring grain area west of Winnipeg. The cool, wet weather delayed ripening of spring grains and hampered harvesting activities in the eastern Prairies. However, the heavy rain helped replenish soil moisture reserves in that region. Elsewhere, showers in the northern areas of the grain belt slowed development as the crop approached maturation while favorable weather aided ripening and harvesting of crops in southern Saskatchewan.

**MEXICO.** Hot, dry weather returned to northeastern citrus areas, but most orchards had sufficient soil moisture from Hurricane Allen's rains a week or two ago. The rainy season is quite active over the northwestern mountain watersheds, and irrigation supplies should be significantly increasing for many West Coast crops. Heavy rains of 80 mm in Torreon and Hermosillo cotton districts improved the soil moisture situation but may have hurt some of the early crop with open bolls. The principal corn production area in the southern plateau had very little rain this week in the northern portion while the southern section had about 50 mm.



(continued from page 12)

Soybeans, peanuts stressed by continued drought in east, southeast. Topsoil moisture short to adequate. Fieldwork: 4.9 days available. Corn 80% in dough, 50% dented. Corn grain combining 5% done, less than 1% 1979, 4% average. Tidewater, southeast corn 8% combined. Tobacco harvested: Flue-cured 35%, 40% 1979, 43% usual; fire-cured 20%, 43% 1979, 32% average; burley 15%, 15% 1979, 16% usual; sun-cured 10%, 30% 1979, 28% average. Tobacco condition fair. Corn, soybeans, pastures mostly poor to fair. Apples, mostly rambos, 3% picked, 2% 1979, 7% average. Cabbage irrigated southwest. Flue-cured tobacco sales active. Corn, grass silage harvests underway. Growers spraying soybeans for spider mites, corn earworms, green cloverworms.

**WASHINGTON:** West: Precipitation a little above normal. Temperatures 2 to 3° below normal. Green pea harvest nearly complete. Harvesting sweet corn, broccoli, cauliflower, etc. Harvesting vegetable seeds. Blueberry picking nearly over. Dairymen green chopping and making silage. Much hay cutting. Some moisture stress to pasture.

East: Precipitation above normal except south central. Temperatures 2 to 6° below normal. Picking peaches, bartletts, plums. Major apple varieties to start second week September. Digging early potatoes, russets to start soon. Harvesting sweet corn, lima beans. Snap beans soon. Har-

vesting dry beans. Third cutting alfalfa. Rain stalled grain harvest. Range, soil moisture adequate. Winter wheat harvested 71%, 1979 94%.

**WEST VIRGINIA:** Temperatures averaged 2° above normal. Extremes: 92 and 47°. Precipitation above normal, 8.9 in. to less than 1.00 in. Soil moisture surplus to adequate. Days suitable for fieldwork: 1.6. Major activities general maintenance, gardening, pasture clipping. Oats good to fair, 84% harvested, 86% 1979. Hay good to fair, 2nd cutting 54%, 63% 1979. Corn good to fair, 8% pre-silked, 55% silked, 37% dough, 14%, 50%, 36% respectively 1979. Tobacco fair to poor, 73% topped, 25% harvested, 53% and 7% respectively 1979. Pasture good. Potatoes good to fair. Gardens fair to good. Severe flash flooding in several counties. Heavy rains hindered fieldwork.

low 50's. Rainfall moderate averaging about 1.00 in. occurring almost daily. Rainfall mainly from showers and thunderstorms. Rainfall varied from 0.10 in. to nearly 3.00 in.

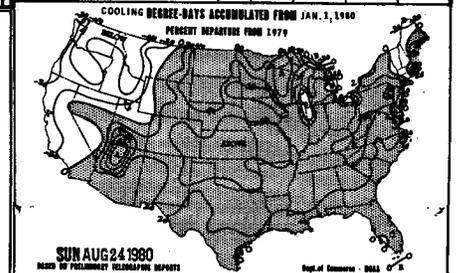
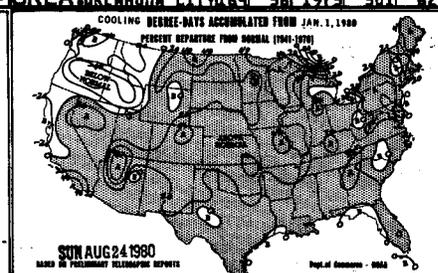
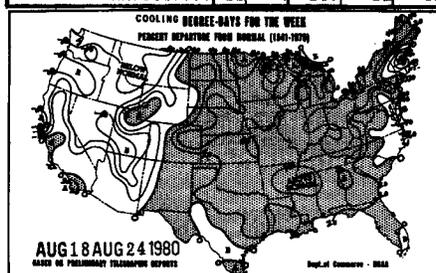
**WISCONSIN:** Temperatures 3° above normal. Highs 80's and 90's but cooler north. Lows 50's and 60's except 40's extreme north. Extremes: 94 and 47°. Rainfall substantial again. Rainfall amounts ranged from 1.00 to 3.00 in., with locally heavy amounts 4.00 in. north.

Harvesting slowed by rains and wet fields. Fieldwork: 2.0 days suitable. Oats harvest 65%

(continued on page 20)

COOLING DEGREE DAYS (BASE 65°) FOR WEEK ENDING AUG. 24, 1980.

Table with columns for STATES AND STATIONS, WEEKLY DEPARTURE, SEASONAL ACCUMULATION, and DEPARTURE FROM 1979. Rows list various states and cities with their respective cooling degree day values.



**CROP PROGRESS**

FOR WEEK ENDING AUG 24, 1980

	CORN % DOUGH		
	1980	1979	AVG.
COLO	62	52	55
GA	100	NA	NA
ILL	93	81	87
IND	90	90	80
IOWA	79	75	85
KANS	75	75	80
KY	92	86	85
MICH	75	63	76
MINN	78	18	69
MO	88	83	77
NEBR	80	70	80
N C	96	NA	NA
OHIO	90	85	2/
PA	55	47	51
S DAK	67	52	66
VA	80	NA	NA
WIS	65	35	50
17 STATES	82	NA	NA
EXCL. STATES WITH NA	81	67	78

THESE 17 STATES PRODUCED 93% OF THE 1979 CORN CROP.

	CORN % DENT		
	1980	1979	AVG.
COLO	20	20	25
GA	98	NA	NA
ILL	64	32	57
IND	35	20	40
IOWA	45	15	42
KANS	35	30	45
KY	57	50	43
MICH	15	6	20
MINN	24	0	32
MO	66	49	57
NEBR	35	5	40
N C	87	77	NA
OHIO	25	20	40
PA	13	11	14
S DAK	28	10	29
VA	50	NA	NA
WIS	20	1	15
17 STATES	41	NA	NA
EXCL. STATES WITH NA	39	17	39

THESE 17 STATES PRODUCED 93% OF THE 1979 CORN CROP.

	SPRING WHEAT % HARVESTED		
	1980	1979	AVG.
IDA	36	35	38
MINN	73	12	62
MONT	45	30	30
N D	48	16	45
S DAK	2/	62	93
5 STATES	60	25	53

THESE 5 STATES PRODUCED 92% OF THE 1979 SPRING WHEAT CROP.

	SOYBEAN % SETTING PODS		
	1980	1979	AVG.
ALA	74	78	NA
ARK	45	NA	NA
GA	41	NA	NA
ILL	96	89	93
IND	95	90	80
IOWA	100	100	100
KANS	80	75	75
KY	63	70	67
LA	70	76	NA
MICH	80	100	100
MINN	98	88	94
MISS	67	73	69
MO	75	63	68
NEBR	97	95	97
N C	53	40	NA
OHIO	95	95	100
S C	55	72	61
TENN	80	81	55
18 STATES	81	NA	NA
EXCL. STATES WITH NA	88	85	85

THESE 18 STATES PRODUCED 94% OF THE 1979 SOYBEAN CROP.

	SORGHUM % HEADED		
	1980	1979	AVG.
COLO	84	83	85
KANS	70	80	70
MO	84	85	85
NEBR	98	95	96
OKLA	80	75	90
S DAK	86	85	85
TEX	93	95	NA
7 STATES	85	88	NA
EXCL. STATES WITH NA	80	84	80

THESE 7 STATES PRODUCED 92% OF THE 1979 SORGHUM CROP.

	SORGHUM % COLORING		
	1980	1979	AVG.
COLO	NA	NA	NA
KANS	20	15	20
MO	NA	NA	NA
NEBR	45	15	30
OKLA	45	25	55
S DAK	28	22	19
TEX	73	73	NA
7 STATES	NA	NA	NA
EXCL. STATES WITH NA	29	16	26

THESE 7 STATES PRODUCED 92% OF THE 1979 SORGHUM CROP.

	COTTON % ROLLS OPENING		
	1980	1979	AVG.
ALA	14	1	4
ARIZ	9	NA	NA
ARK	10	1	5
CALF	6	8	NA
GA	34	20	NA
LA	24	1	NA
MISS	13	1	11
MU	19	8	5
N MEX	1	0	1
N C	12	10	NA
OKLA	NA	NA	NA
S C	48	7	16
TENN	5	2	10
TEX	22	15	NA
14 STATES	NA	NA	NA
EXCL. STATES WITH NA	13	2	8

THESE 14 STATES PRODUCED 99% OF THE 1979 COTTON CROP.

	RICE % HEADED		
	1980	1979	AVG.
ARK	67	NA	NA
CALF	50	89	NA
LA	94	92	NA
MISS	89	80	74
TEX	100	100	NA
5 STATES	77	NA	NA
EXCL. STATES WITH NA	89	80	74

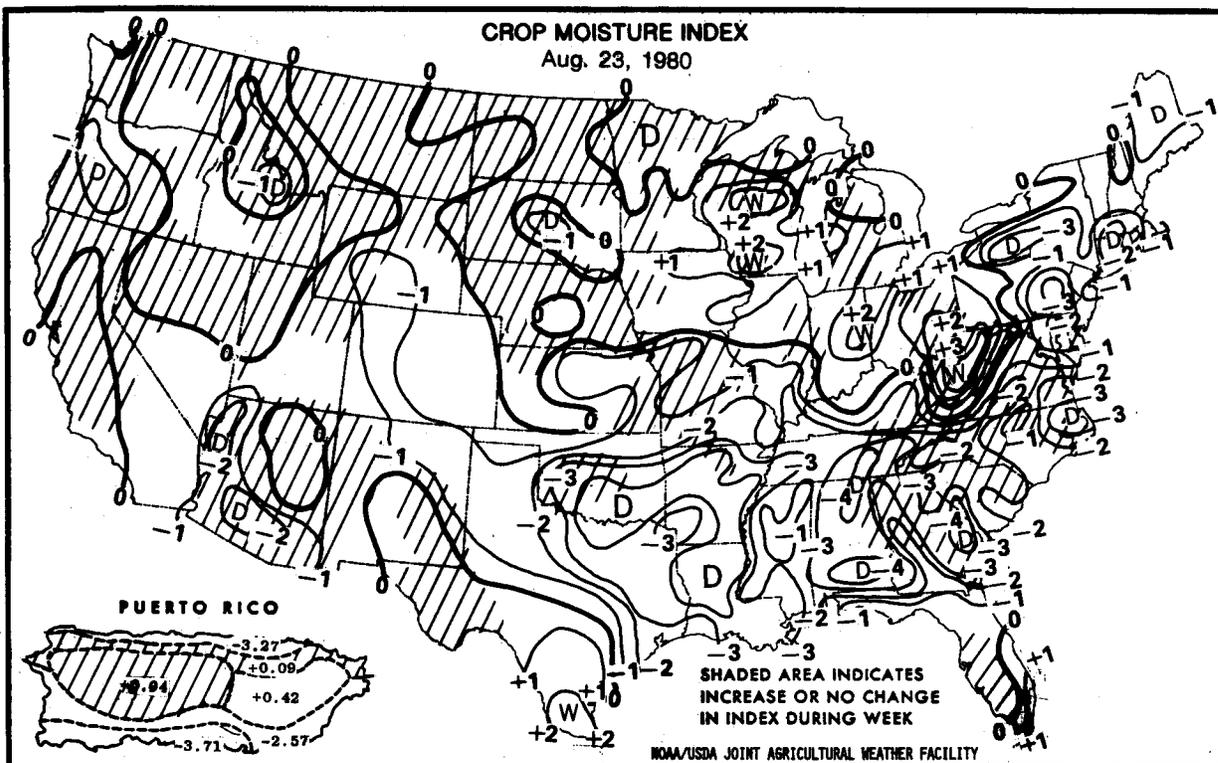
THESE 5 STATES PRODUCED 99% OF THE 1979 RICE CROP.

	RICE % HARVESTED		
	1980	1979	AVG.
ARK	3	0	NA
CALF	0	0	NA
LA	63	54	57
MISS	4	NA	NA
TEX	100	95	90
5 STATES	32	NA	NA
EXCL. STATES WITH NA	82	75	74

THESE 5 STATES PRODUCED 99% OF THE 1979 RICE CROP.

NA = NOT AVAILABLE

2/ GREATER THAN 95%



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

SHADED AREAS: INDEX INCREASED OR DID NOT CHANGE	
ABOVE 3.0	EXCESSIVELY WET, SOME FIELDS FLOODED
2.0 to 3.0	TOO WET, SOME STANDING WATER
1.0 to 2.0	PROSPECTS ABOVE NORMAL, SOME FIELDS TOO WET
0 to 1.0	MOISTURE ADEQUATE FOR PRESENT NEEDS
0 to -1.0	PROSPECTS IMPROVED BUT RAIN STILL NEEDED
-1.0 to -2.0	SOME IMPROVEMENT BUT STILL TOO DRY
-2.0 to -3.0	DROUGHT EASED BUT STILL SERIOUS
-3.0 to -4.0	DROUGHT CONTINUES, RAIN URGENTLY NEEDED
BELOW -4.0	NOT ENOUGH RAIN, STILL EXTREMELY DRY

CONTINUED IMPROVEMENT IN THE CROP MOISTURE INDEX IN MOST OF THE NORTHERN PLAINS IS BENEFICIAL FOR THE PLANTING OF WINTER GRAINS, WHICH IS READY TO START IN THESE AREAS. ROW CROPS ARE IMPROVING WITH ADEQUATE MOISTURE IN MOST OF THE CORN BELT. POTENTIAL WINTER GRAIN AREAS ARE IMPROVING IN KANSAS, BUT MORE RAIN IS NEEDED FURTHER SOUTH. THE MISSISSIPPI DELTA REGION REMAINS TOO DRY DURING THIS IMPORTANT CROP RIPENING TIME.

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**FIRST CLASS MAIL**

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planted. A limited supply of summer vegetables were still being harvested.

Florida growers prepared land and planted fall vegetables. Early-planted fields progressed favorably.

(continued from page 16)

completed, 1979 50%, normal 80%. Many remaining fields severely lodged, some being abandoned. Moisture content of small grains high and quality reduced. Straw being baled where dry enough. Some farmers trying to finish second crop hay. Third crop very good growth and ready to cut, some third crop harvested. Pasture conditions above normal. Corn crop maturing favorably with warm temperatures. Corn 65% in dough, 1979 35%, normal 50%. Corn 20% in dent, 1979 1%, normal 15%. Early corn has husks changing color and cobs starting to hang down. Soybeans have lots of pods and filling well. Harvest of potatoes and vegetables slowed by wet conditions. Early tobacco being harvested. Apple crop good, early varieties being picked. Cranberries coloring. Soil moisture adequate to surplus.

**PASTURES AND LIVESTOCK:** Pastures and ranges rated fair to good except in parts of the Southeast, the south central region, and the West where poor to fair conditions continue. Supplemental feeding and herd reduction continues in many areas.

**WYOMING:** Temperatures below normal. Maximum mid 80's to mid 90's. Minimum mid 30's to mid 40's. Precipitation abundant. Amounts varied from 0.25 in. to 1.00 in.

Topsoil moisture short 69% state. Winter wheat harvest in wind up stages. Spring wheat: Turning color 95%; mature 80%; harvested 70%. Barley: Turning color 96%; mature 82%; harvested 60%. Oats: Turning color 96%; mature 81%; harvested 60%. Corn fair to good condition, most milk stage, some denting. Dry beans mostly good condition, 91% setting pods, leaves turning color 36%. Sugarbeets, potatoes good condition. Second cutting alfalfa 68% complete, third cutting 6%. Other hay 88% harvested. Livestock producers expected to winter 4% fewer cattle, 2% fewer sheep. Stored feed supplies below average to mostly average. Some livestock movement due to scarcity of grass.

