

# WEEKLY WEATHER AND CROP BULLETIN

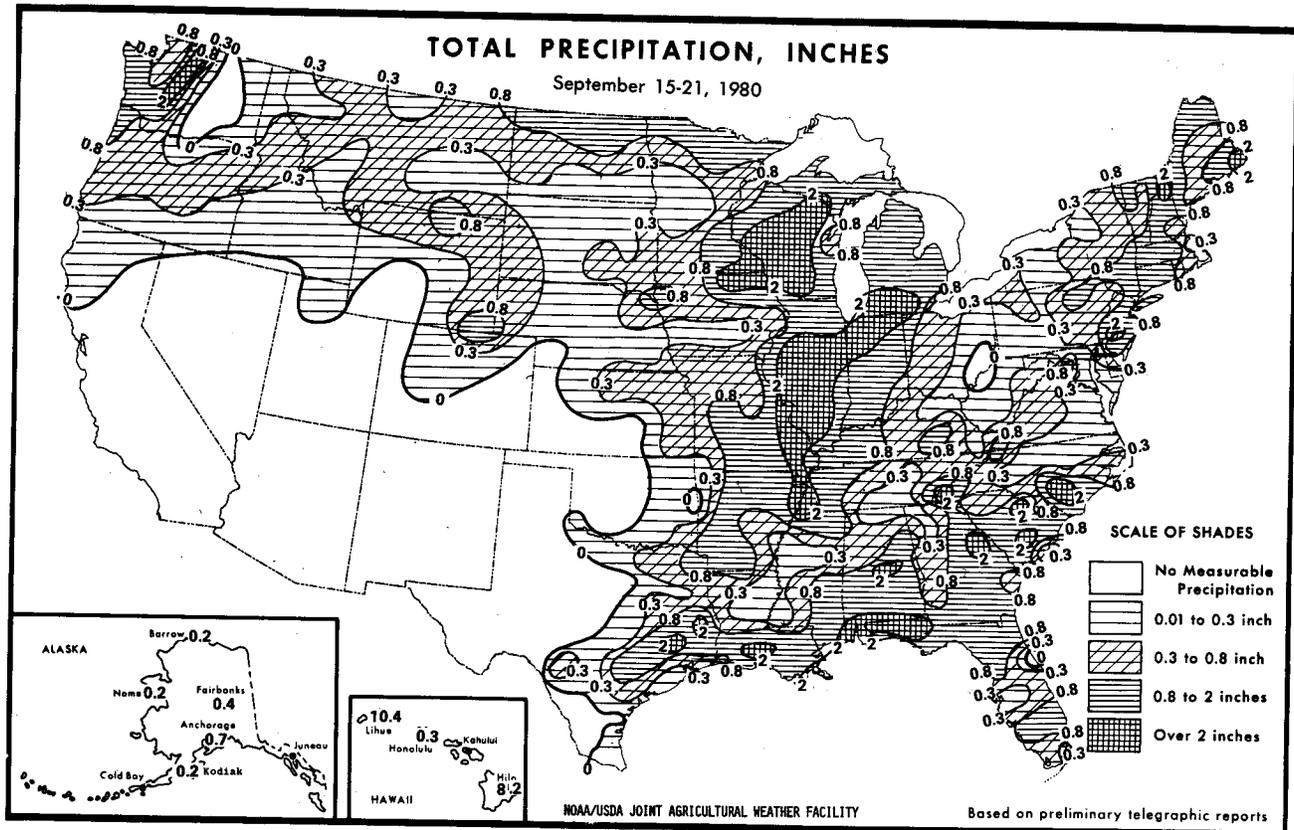
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## National Weather Summary

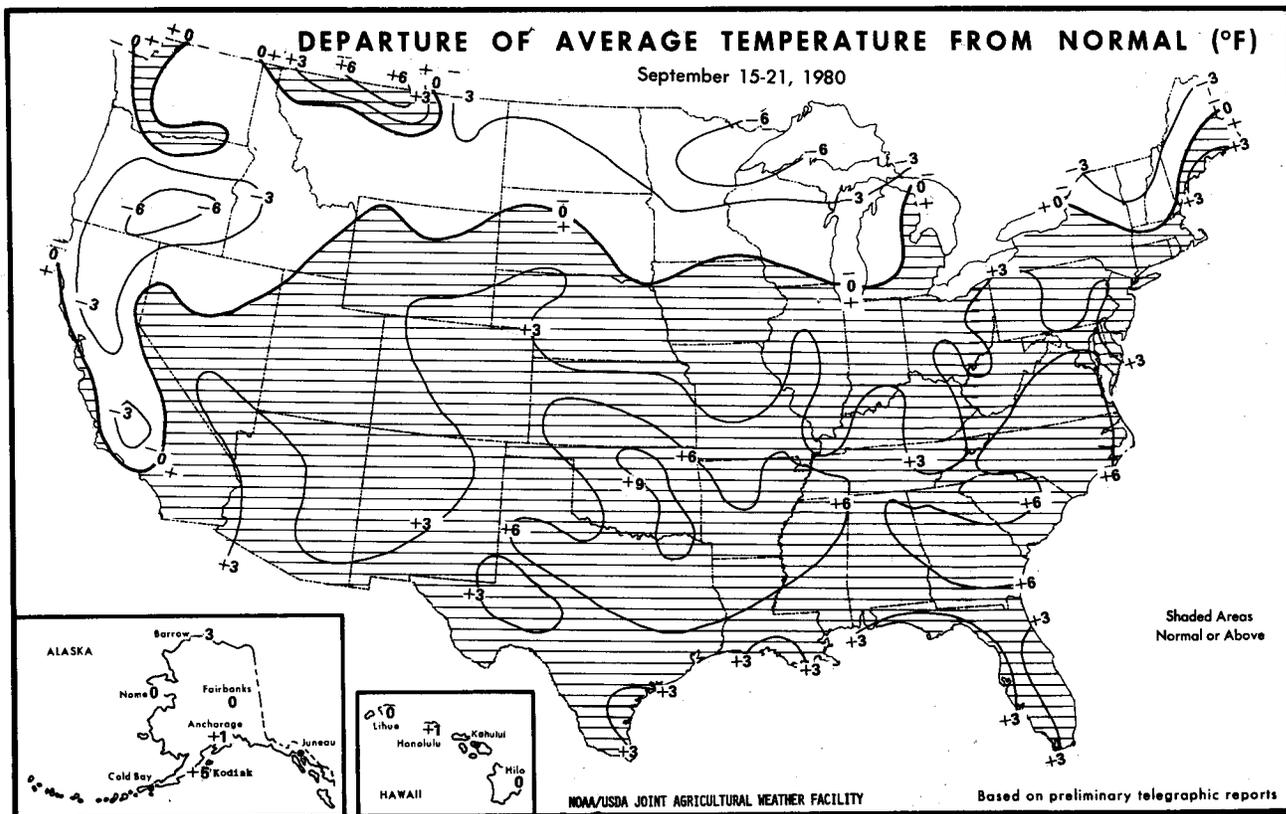
September 15-21

**HIGHLIGHTS:** Thunderstorms brought heavy rain to parts of the northern Corn Belt. The area was already wet from previous rains, causing some concern about the effect of the wet conditions on corn and soybeans. Light rain fell in Montana, the Dakotas, and Nebraska where winter grain was being sown, but cool temperatures slowed germination prospects. Cool air pushed southward and one day, at least, the heat wave was broken. On Wednesday, hot weather remained only in southern and southeastern Texas. The Southwest remained hot, and unseasonably warm temperatures returned to the central Plains, the South, and the east coast by the end of the week.

**MONDAY...**An intense low pressure system in southern Canada brought colder air southeastward across the northern Rockies and Plains on gusty northerly winds. Scattered rainshowers stretched from Montana to North Dakota, and snow-whitened the higher elevations.

Elsewhere, thundershowers spread from South Dakota through the western Great Lakes region and southward to eastern Kansas, Missouri, Illinois, and Indiana. Hailstorms swept the area from South Dakota to Missouri. Although cooler air from the previous system had swept well to the south, the heat wave continued in the Deep South. High temperatures ranged near or over 100° from eastern Texas to central Georgia. The heat sapped more moisture from the dry soils.

**TUESDAY...**A taste of autumn touched the northern Plains as thermometers dropped into the thirties. Below-freezing temperatures were registered in northern Montana. Lewiston, central Montana, measured 29°. Stormy weather rolled over the Midwest as the cold front crossed the area and then dipped into the southern Plains. Severe thunderstorms spawned tornadoes in Illinois. Heavy rain covered a large part of the dry southern part of the State. Thunderstorms rumbled and



rained from eastern Oklahoma to lower Michigan. The temperature dropped 17 degrees in 6 minutes at Chicago as the cold front passed, but the heat wave continued in the South and crept northward again into southern Missouri.

**WEDNESDAY...**The strong cold front pushed across the Appalachians and into central Texas. The coldest early morning temperatures chilled northern Iowa and eastern Nebraska; Atlantic, northwestern Iowa, dropped to a record 31°. Thunderstorms along and ahead of the front triggered widespread rain throughout the East from Mississippi to Florida and Georgia and northward through the eastern Great Lakes and New England. Some showers were heavy in the dry area along the east coast from Delaware northward and in the Southeast. Thunderstorms triggered wind damage and local flooding in Alabama. The next storm was building in North Dakota and spread light showers to the northern Plains. The heat wave was broken, for the time being, in most of the South. Hot temperatures were confined to southern and southeastern Texas and to the Southwest. The mercury climbed above 100° in much of the Southwest and was welcomed in California's San Joaquin Valley where raisins were spread for drying.

**THURSDAY...**The cold front moved through New England but became weak and nearly stationary from North Carolina through the southern States. Warm air returned to the southern Plains as the cooler air moved into the East. A new surge of cool air invaded the northern Plains and Rockies, slowing the germination of newly planted small grains. Showers and thunderstorms fell lightly in the Southeast, but eastern Texas received moderate rain. In the Northwest, showers and occasional thunderstorms continued across the northern Plateau and Rockies.

**FRIDAY...**A complex frontal system across the northern tier of States caused showers and thunderstorms from the central Great Lakes through the northern Rockies and Plateau. The stronger thunderstorms dropped hail and heavy rain in Wisconsin and Minnesota. In the southeastern part of the Nation, scattered showers and occasional thunderstorms continued from the western gulf coast to the Carolinas. A strong cold front brought rain and gusty winds to the Pacific Northwest. The heat wave returned to the central Plains. Temperatures in the middle nineties reached into Nebraska.

**SATURDAY...**A low pressure center and an associated frontal system spread showers and thunderstorms across the upper Mississippi Valley and the western portion of the Lakes. Severe weather with heavy rain again hit southern Minnesota and Wisconsin and reached into northern Iowa. Widely scattered showers and thunderstorms lingered from eastern Texas to the southern Appalachians and South Atlantic Coast, and dotted New England. In the West, the strong cold front continued to bring cool temperatures and showers to the Pacific Northwest. Windy and warm weather spanned the Nation's midsection.

**SUNDAY...**The cold front scattered thunderstorms from the eastern Dakotas through the Great Lakes and into Wyoming and eastern Montana. Local flooding caused problems in southern Wisconsin. Sleet was reported over parts of central Wyoming and Montana. In the East, a few scattered showers and thunderstorms lingered from the gulf coast to the Tennessee Valley and the Virginias. Warm temperatures were still moving into the central Plains on gusty winds. Temperatures in the upper nineties prevailed through Kansas and 90-degree readings returned to the Southeast and the east coast to the mid-Atlantic States.

## National Agricultural Summary

September 15-21

**HIGHLIGHTS:** Cool, wet weather brought field activities to a near standstill from Minnesota eastward to Michigan. Temperatures averaged below normal across the northern part of the Nation and along the west coast; above-normal temperatures warmed all other areas. Light frost was reported in a few localities; very little, if any, crop damage occurred. Farmers had 4 to 7 days suitable for fieldwork in nearly all areas of the Nation except Illinois, Michigan, Minnesota, and Wisconsin where wet weather and wet fields limited growers to 2 available days. Soil moisture was very short to short in the south Atlantic and south central States, and short to adequate in all other States except Michigan where supplies were rated adequate to surplus and Wisconsin where supplies were surplus. Small grain harvests neared completion; spring wheat harvest advanced to 92% complete. Corn harvesting spread to all major States except Colorado and Wisconsin, and reached 11% complete, slightly ahead of last year and the average; 73% of the crop was mature. Soybean harvest just got started; 48% of the crop had shed leaves. Grain sorghum harvest advanced northward into South Dakota and reached 37% complete in the seven major States; 57% of the crop matured. Cotton bolls had opened on 55% of the acreage, and harvesting reached 14% complete. Rice harvesting reached 51% complete and just got underway in California. Pastures and ranges rated fair to good in the north Atlantic, north central, and western States but rated poor to fair in the south Atlantic States and poor in the south central States. Supplemental feeding continued. Livestock moved from summer pastures and ranges.

**CORN:** Corn rated fair to good throughout much of the Corn Belt but only poor to fair in other major producing areas. In the eastern Corn Belt, mature stage ranged from 30% in Michigan to 95% in Illinois; harvesting began in all States except Wisconsin. In the western Corn Belt, mature stage ranged from 60% in South Dakota to 84% in Michigan; harvesting varied from 19% in Minnesota and South Dakota to 32% in Missouri. In the 17 major producing States, 73% of the crop was mature and 11% harvested. Progress generally exceeded last year and the average.

**SOYBEANS:** Soybeans rated fair to good in much of the Corn Belt but rated poor to fair in other major producing areas of the Nation. Pod setting neared completion, and 48% of the acreage had shed leaves. Harvesting was underway on a limited scale. Crop progress edged slightly ahead of last year but about equaled the average. Some poorly developed fields were cut for hay or disked under.

**SMALL GRAINS:** Spring wheat harvesting advanced to 92% complete, compared with 90% a year ago and the 94% average. Harvesting was finished in South Dakota and neared completion in Minnesota.

Winter wheat seeding in the 15 major States reached 32% complete, slightly behind last year's progress but about equal to the average.

**COTTON:** Cotton rated poor to fair in nearly all major growing areas except New Mexico where the crop is rated good. Warm temperatures increased development. Bolls opened on 55% of the acreage, and harvesting spread to all areas except California and New Mexico. In the 14 major States, 14% of the acreage had been harvested, slightly ahead of last year and the average. In Texas, cooler temperatures helped control bollworm activity. Some poor, unharvested fields were plowed under in preparation for winter wheat planting.

Rice harvesting reached 51% complete, slightly ahead of last year and the average. Harvest began in California.

The Maine potato harvest gained momentum with 15% of the crop in, slightly behind normal. The Idaho harvest reached 10% complete.

Peanut digging became more widespread, and harvesting increased in major producing areas.

**FRUITS AND NUTS:** The fall apple harvest increased in northern regions, although progress was slow in some areas as growers delayed picking and waited for fruit to color. Florida citrus groves showed good to excellent condition with mostly adequate moisture supplies. Grapefruit harvesting started. The Arizona lemon harvest increased. Other new-crop fruit sized well. Groves continued in good condition. In California, the nectarine, Freestone peach, and dried fig harvests neared completion. Raisin-grape harvests peaked. Dates progressed normally. New-crop Navel oranges looked good.

**VEGETABLES:** Fall vegetable harvests increased as more types of vegetables became available. Land preparation and planting continued very actively in Florida. Transplanting of new crops was underway; growing crops showed good to very good condition, and some crop harvests began. California growers harvested a wide variety of vegetables in all areas. Planting continued actively in Texas. Hot temperatures hampered newly planted stands in some areas; rain is needed in many areas.

**PASTURES AND RANGES:** Pastures and ranges rated fair to good in the north Atlantic, north central, and western States, but rated poor to fair in the south Atlantic States, and poor in the south central States. Supplemental feeding continued. Livestock moved from summer pastures and ranges. Fall calving began, and sheep shearing continued.

Weather Data for the Week Ending Sept. 21, 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 Sept. 1	PCT. NORMAL SINCE Sept. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERA- TURE °F		PRECIPI- TATION	
														90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	90	67	100	61	78	5	.7	-.2	.7	.9	33	92	48	3	0	2	1
MOBILE	89	73	96	69	81	4	3.3	1.7	2.7	3.9	78	95	61	4	0	4	1
MONTGOMERY	91	72	100	69	81	6	1.0	-.1	.8	1.2	38	88	57	4	0	4	1
AK ANCHORAGE	56	41	58	33	48	1	.7	-.1	.4	1.5	83	85	62	0	0	3	0
BARROW	30	25	39	20	27	-3	.2	-.1	.2	.7	233	95	81	0	7	3	0
FAIRBANKS	51	37	59	28	44	1	.4	-.2	.1	1.0	125	80	49	0	3	3	0
KODIAK	60	50	67	45	55	5	.2	-1.3	.1	1.6	38	92	63	0	0	4	0
NOME	48	37	51	30	42	0	.2	-.3	.1	.6	33	76	66	0	1	2	0
AZ FLAGSTAFF	79	53	84	41	66	9	0	-.4	0	.7	54	50	23	0	0	0	0
PHOENIX	102	74	107	67	88	5	0	-.1	0	0	0	36	10	0	0	0	0
TUCSON	99	66	102	62	83	3	0	-.3	0	1.4	127	52	17	7	0	0	0
WINSLOW	88	53	94	49	70	2	0	-.2	0	.6	86	---	---	1	0	0	0
YUMA	104	73	109	69	88	1	0	0	0	0	0	44	12	7	0	0	0
AR FORT SMITH	94	67	101	60	80	7	T	-.8	0	.1	4	85	34	5	0	0	0
LITTLE ROCK	89	67	102	57	78	5	.4	-.4	.3	.4	16	72	45	5	0	2	0
CA BAKERSFIELD	84	60	91	54	72	-4	0	0	0	0	0	---	34	1	0	0	0
EUREKA	64	50	67	46	57	1	.1	-.1	T	.1	25	90	68	0	0	0	0
FRESNO	97	58	93	52	72	-1	0	0	0	0	0	69	25	1	0	0	0
LOS ANGELES	76	62	84	60	69	-3	0	0	0	0	0	82	52	0	0	0	0
RED BLUFF	85	56	90	53	71	-4	.1	0	.1	.1	33	---	26	1	0	1	0
SAN DIEGO	77	67	83	62	72	2	0	0	0	0	0	79	64	0	0	0	0
SAN FRANCISCO	73	54	78	51	64	0	T	-.1	T	0	0	82	47	0	0	0	0
STOCKTON	83	54	89	48	68	-3	0	-.1	0	0	0	90	41	0	0	0	0
CO DENVER	83	51	93	44	67	5	.2	-.1	.1	.7	88	67	17	1	0	1	0
GRAND JUNCTION	85	54	93	51	69	3	0	-.2	0	.6	100	45	13	1	0	0	0
PUEBLO	88	50	98	44	69	4	0	-.1	0	.5	83	76	20	3	0	0	0
CT BRIDGEPORT	75	58	84	51	66	1	1.3	.7	.9	2.0	95	86	61	0	0	2	1
HARTFORD	75	50	88	45	63	1	1.0	-.2	.9	1.2	46	76	49	0	0	2	1
DC WASHINGTON	85	69	92	61	77	7	.1	-.6	.1	.9	-38	91	55	2	0	2	0
FL APALACHICOLA	88	73	90	71	80	2	1.0	-1.2	1.0	3.2	47	93	59	2	0	2	1
DAYTONA BEACH	90	72	94	67	81	2	T	-1.7	T	1.6	31	92	55	6	0	0	0
FORT MYERS	93	77	95	75	85	4	.8	-1.3	.8	4.1	64	89	55	7	0	1	1
JACKSONVILLE	93	72	96	69	82	5	1.8	-.1	1.6	2.8	49	96	54	7	0	2	1
KEY WEST	89	82	91	81	86	3	.1	-1.7	.1	5.3	104	76	61	4	0	2	0
MIAMI	87	78	91	75	83	1	.1	-2.0	T	5.6	93	86	66	3	0	2	0
ORLANDO	92	72	93	71	82	2	.7	-1.0	.4	3.4	65	57	57	7	0	2	0
TALLAHASSEE	90	72	94	68	81	3	1.8	-.2	1.2	3.4	68	98	64	5	0	2	2
TAMPA	90	75	92	72	82	2	.3	-1.2	.3	3.1	65	96	58	4	0	2	0
WEST PALM BEACH	90	74	92	71	82	0	1.3	-1.1	1.1	5.9	87	86	59	4	0	3	1
GA ATLANTA	89	72	96	69	81	9	.3	-.4	.1	1.1	48	89	55	2	0	3	0
AUGUSTA	94	66	100	60	80	7	0	-.8	0	.1	4	96	41	5	0	0	0
MACON	93	71	102	64	82	7	1.8	1.1	1.3	2.3	100	95	53	5	0	4	1
SAVANNAH	93	74	98	73	83	8	.4	-.9	.3	4.1	100	91	54	6	0	2	0
HI HILO	---	---	---	---	76	0	8.2	6.6	---	13.3	256	---	---	---	---	---	---
HONOLULU	88	75	90	71	81	1	.3	.2	.3	.4	133	77	49	2	0	1	0
KAHULUI	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
LIHUE	---	---	---	---	79	0	10.4	10.0	0	10.8	900	---	---	---	---	---	---
ID BOISE	72	46	85	41	59	-3	.2	.1	.2	1.6	533	78	34	0	0	2	0
LEWISTON	73	51	86	47	62	0	.2	0	.1	1.0	200	88	37	0	0	3	0
POCATELLO	71	46	84	41	58	0	.1	0	T	1.4	350	81	30	0	0	2	0
IL CAIRO	81	63	89	55	72	1	.6	-.2	.4	1.1	44	---	---	0	0	2	0
CHICAGO	75	56	90	45	65	3	1.5	-.8	1.2	5.1	243	86	45	1	0	3	1
MOLINE	76	55	88	46	66	2	.6	-.3	.6	2.9	107	89	49	0	0	1	1
PEORIA	78	58	88	47	68	3	2.2	1.4	1.5	4.1	164	83	47	0	0	2	1
ROCKFORD	74	55	85	45	65	3	1.1	-.1	.6	5.8	200	87	48	0	0	2	1
SPRINGFIELD	81	59	90	49	70	4	2.8	2.0	2.7	4.9	213	87	48	2	0	3	2
IN EVANSVILLE	84	58	93	49	71	3	1.1	-.5	.6	1.6	80	93	50	2	0	2	1
FORT WAYNE	75	56	87	45	66	2	1.3	-.7	.9	1.9	106	89	57	0	0	2	1
INDIANAPOLIS	77	56	88	47	66	1	1.6	-.9	1.1	3.2	152	76	55	0	0	2	1
SOUTH BEND	75	57	86	47	66	4	2.1	1.4	1.7	4.6	209	90	55	0	0	3	1
IA BURLINGTON	78	55	89	44	66	1	1.4	-.5	1.3	6.7	258	---	---	0	0	2	1
DES MOINES	77	52	91	38	65	2	.1	-.6	.1	1.0	43	80	48	1	0	1	0
DUBUQUE	72	53	84	41	63	2	1.8	-.7	1.3	6.1	185	90	47	0	0	3	1
SIoux CITY	77	46	91	33	62	0	1.0	-.3	1.0	1.4	67	83	44	1	0	3	1
KS CONCORDIA	85	53	97	40	69	3	.8	-.1	.3	1.2	52	77	36	2	0	2	1
DODGE CITY	92	58	102	42	75	7	0	-.4	0	0	0	71	21	4	0	0	0
GOODLAND	85	51	97	43	68	5	T	-.3	T	2.1	191	80	25	1	0	0	0
TOPEKA	85	56	98	40	71	4	.7	-.1	.6	1.2	48	86	40	3	0	2	0
WICHITA	92	61	99	42	77	7	0	-.9	0	.3	12	73	28	5	0	0	1
KY LEXINGTON	78	60	84	52	69	2	.3	-.3	.2	1.3	68	86	59	0	0	2	0
LOUISVILLE	82	62	88	55	72	4	.5	-.2	.4	2.4	114	91	55	0	0	2	0

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

Weather Data for the Week Ending Sept. 21, 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 Sept. 1	PCT. NORMAL SINCE Sept. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE °F		PRECIPI-TATION	
														90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
LA	87	72	94	69	80	3	1.3	.4	1.0	5.3	189	91	60	3	0	2	1
	90	73	94	69	82	4	.8	.2	.8	3.4	113	91	63	4	0	2	1
	91	74	96	70	82	5	1.1	.3	.5	3.0	71	85	64	5	0	4	0
	98	71	103	67	85	8	.5	.3	.5	.5	23	92	40	7	0	3	0
ME	59	41	63	32	50	-3	1.0	.2	.8	2.7	113	91	40	0	1	2	1
	69	51	82	43	60	3	.9	.1	.4	1.6	73	86	54	0	0	2	1
MD	83	61	91	54	72	4	.1	.6	.1	.6	26	86	51	0	0	2	1
MA	75	56	85	50	65	2	.3	.4	.3	.5	22	87	54	0	0	2	1
	69	56	74	51	63	-1	.8	.1	.1	.3	39	89	70	0	0	2	1
MI	64	47	76	42	56	-1	1.1	.3	.7	2.2	92	--	--	0	0	3	1
	73	53	85	44	63	0	.4	.1	.4	2.2	137	89	59	0	0	1	0
	69	52	81	41	60	0	1.7	1.1	.9	3.1	163	93	66	0	0	3	1
	71	52	79	42	61	0	1.7	.9	1.0	3.1	135	95	63	0	0	3	1
	64	44	73	35	54	-2	1.5	.7	1.2	3.2	139	99	66	0	0	3	1
	70	53	82	40	61	0	1.7	1.1	1.5	2.6	144	94	65	0	0	3	1
	57	40	60	33	48	-8	2.0	1.0	1.1	5.7	238	94	70	0	0	5	1
	68	52	75	41	59	-2	2.0	1.2	1.3	3.2	133	89	64	0	0	2	2
MN	57	41	64	33	49	-5	1.5	.6	.7	2.7	96	85	66	0	0	5	2
	55	40	61	34	48	-6	.3	.4	.2	6.1	265	91	66	0	0	4	2
	55	39	65	32	47	-5	1.8	1.0	.8	3.9	163	94	65	0	1	5	1
	66	47	82	38	57	-2	1.2	.6	.7	3.6	180	81	55	0	0	4	1
	69	47	82	36	58	0	1.2	.5	.7	2.7	117	90	57	0	0	4	1
	63	43	71	33	53	-4	.1	.5	.7	5.2	248	82	--	0	0	3	0
MS	94	71	104	64	83	7	.6	.1	.5	.8	35	93	46	6	0	3	0
	92	68	103	62	80	5	1.4	.6	1.2	1.4	58	96	53	4	0	2	1
MO	84	55	93	44	70	3	.7	.4	.7	1.9	59	86	37	3	0	1	1
	81	56	94	40	68	1	.6	.4	.4	1.7	57	83	44	3	0	2	1
	82	61	92	51	72	3	2.1	1.4	2.1	3.1	155	85	50	2	0	2	1
	88	60	95	48	74	6	1.4	.4	1.4	1.8	62	88	38	4	0	1	1
MT	70	45	84	40	58	0	.2	.2	.1	.7	64	71	30	0	0	4	0
	63	42	73	32	52	-3	.5	.3	.3	.7	100	77	59	0	1	6	0
	66	44	74	36	55	-2	.5	.2	.4	.8	89	72	41	0	0	2	0
	65	46	73	29	55	0	.2	.1	.1	.4	44	80	38	0	1	4	0
	64	43	77	35	54	-2	.2	.0	.2	2.6	371	77	43	0	0	2	0
	63	44	75	39	54	2	.1	.2	.7	.7	78	87	52	0	0	3	0
	68	48	75	37	58	0	.1	.2	.1	.7	78	82	41	0	0	2	0
NE	63	41	78	37	52	-2	.4	.2	.1	1.0	125	89	51	0	0	4	0
	83	48	97	36	65	2	.7	.6	.7	.9	50	84	34	1	0	1	0
	82	53	93	37	68	4	.1	.6	.1	.3	14	83	45	3	0	1	0
	78	47	92	35	63	1	.7	.1	.6	.9	50	84	47	1	0	2	1
	79	46	91	38	63	2	.7	.1	.3	.3	20	83	37	1	0	1	0
	69	50	91	36	59	-6	.1	.6	.1	1.1	46	100	52	1	1	1	0
NV	77	43	88	14	60	-1	.2	.1	.2	.4	36	80	33	0	1	2	0
	77	37	84	30	57	1	0	.2	0	1.7	425	66	17	0	2	0	0
	97	69	105	63	83	4	0	.1	0	.2	67	28	12	6	0	0	0
	78	43	88	38	61	1	0	.1	0	.5	250	75	22	0	0	0	0
	78	37	91	28	57	-1	.7	.1	.7	.2	67	64	18	1	1	0	0
NH	70	44	84	36	57	-1	.5	.2	.3	1.0	45	81	52	0	0	2	0
NJ	77	56	81	49	67	0	.4	.2	.2	.4	19	94	58	0	0	2	0
	77	60	86	55	68	1	1.1	.4	.8	1.6	70	--	--	0	0	2	1
NM	89	54	92	48	71	2	0	.1	0	1.8	360	63	13	2	0	0	0
	88	61	95	54	74	4	.7	.4	.7	3.7	336	--	--	3	0	0	0
NY	73	49	84	39	61	0	1.2	.4	.8	1.8	78	76	47	0	0	4	1
	71	50	83	43	61	1	.5	.2	.5	2.0	95	80	60	0	0	2	1
	72	53	83	45	62	1	.2	.6	.1	3.5	146	91	48	0	0	5	0
	75	62	85	56	68	1	.9	.2	.5	1.0	42	88	61	0	0	2	1
	74	52	87	47	63	2	.3	.2	.1	3.2	188	96	56	0	0	4	0
	74	51	86	45	62	0	.4	.2	.3	2.8	147	89	52	0	0	2	0
NC	82	61	87	53	71	6	.4	.4	.3	.8	32	98	63	0	0	3	0
	84	69	89	68	77	6	.4	.4	.3	.9	38	92	63	0	0	3	0
	83	67	89	65	75	6	.1	.7	.1	.3	12	99	65	0	0	2	0
	83	71	86	62	77	4	.6	.7	.4	2.4	57	85	64	0	0	2	0
	84	70	89	68	77	7	.2	.7	.2	1.8	64	96	64	0	0	1	0
	89	74	94	70	91	7	2.0	.7	1.0	4.3	102	90	56	3	0	3	2
ND	65	45	72	42	55	-1	.2	.1	.2	.6	60	87	52	0	0	3	0
	61	44	73	40	53	-4	.7	.4	.7	2.4	171	86	57	0	0	1	0
	62	44	76	38	53	-2	.8	.5	.4	2.3	230	76	60	0	0	5	0
OH	74	57	85	51	66	3	.2	.4	.1	1.3	72	89	55	0	0	2	0
	76	57	87	51	67	0	.8	.2	.6	1.6	89	82	59	0	0	3	1
	73	57	87	48	65	2	.2	.4	.2	2.5	125	91	55	0	0	2	0
	77	58	88	51	68	3	.3	.3	.2	1.9	106	91	52	0	0	2	0
	78	57	90	48	68	2	.5	.0	.5	1.3	76	93	47	1	0	2	0
	74	52	87	39	63	0	.7	.1	.6	1.3	72	96	55	0	0	2	1
	73	56	81	50	65	3	.1	.5	.1	3.7	206	90	53	0	0	2	1

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

Weather Data for the Week Ending Sept. 21, 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 Sept. 1	PCT. NORMAL SINCE Sept. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE °F		PRECIPITATION	
														90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
OK OKLAHOMA CITY	94	64	98	49	79	7	0	-.9	0	1.4	56	70	29	6	0	0	0
OK TULSA	95	66	101	50	81	8	T	-1.0	T	2.6	90	83	40	6	0	0	0
OR ASTORIA	65	52	74	48	58	0	1.1	.4	.7	2.3	135	96	69	0	0	3	0
OR BURNS	71	38	84	30	55	-3	.3	.2	.3	.5	167	83	28	0	1	2	0
OR MEDFORD	79	45	92	38	62	-2	.2	.1	.2	.2	67	83	35	1	0	2	0
OR PENDLETON	74	53	87	48	63	0	.1	0	T	.7	233	--	0	0	0	2	0
OR PORTLAND	72	53	85	48	62	1	.8	.4	.4	1.5	150	93	59	0	0	4	0
OR SALEM	74	48	86	38	61	0	.5	.1	T	1.1	122	92	50	0	0	3	0
PA ALLENTOWN	79	57	89	50	68	4	.5	.3	.5	1.8	69	87	48	0	0	1	0
PA ERIE	73	56	85	46	64	2	.6	.2	.4	4.4	183	--	--	0	0	0	0
PA HARRISBURG	77	54	85	45	66	0	.4	.2	.3	.8	42	84	54	0	0	2	0
PA PHILADELPHIA	80	60	88	56	70	3	2.4	1.7	2.3	2.5	114	92	51	0	0	4	0
PA PITTSBURGH	77	57	85	52	67	4	.2	.4	.2	1.0	56	89	56	0	0	1	0
PA SCRANTON	74	53	87	45	63	1	.5	.0	.5	.7	30	90	52	0	0	2	0
RI PROVIDENCE	75	50	88	44	63	0	.7	.0	.6	.3	30	90	52	0	0	1	0
RI CHARLESTON	93	74	97	71	83	9	.1	-1.1	T	1.1	29	91	53	6	0	2	0
SC COLUMBIA	90	68	98	61	79	5	.8	.2	.6	1.0	30	96	52	4	0	2	0
SC GREENVILLE	84	68	91	64	76	5	.3	-.6	.1	.4	15	92	58	1	0	3	0
SD ABERDEEN	69	46	79	37	58	0	T	-.4	T	.4	33	86	49	0	0	0	0
SD HURON	73	45	85	38	59	0	.1	-.3	.1	.5	42	93	49	0	0	2	0
SD RAPID CITY	72	47	83	42	60	1	.3	0	.2	.3	33	72	37	0	0	3	0
SD SIOUX FALLS	73	46	87	35	59	0	.4	.3	.2	.8	38	82	45	0	0	2	0
TN CHATTANOOGA	86	63	92	58	75	4	.1	-.8	.1	.9	35	95	54	2	0	2	0
TN KNOXVILLE	83	64	89	58	73	3	.6	0	.5	1.4	70	99	61	0	0	2	0
TN MEMPHIS	92	70	102	63	81	8	2.4	1.7	2.0	2.6	118	77	43	5	0	3	1
TN NASHVILLE	88	63	94	57	76	4	.5	-.2	.3	.6	26	95	45	3	0	0	0
TX ABILENE	94	69	97	57	82	6	0	-.5	0	1.1	73	70	30	6	0	0	0
TX AMARILLO	89	57	97	42	73	4	T	-.4	T	.9	64	75	24	4	0	0	0
TX AUSTIN	94	73	95	71	83	5	.1	-.8	.1	2.7	104	83	41	7	0	1	0
TX BEAUMONT	92	75	96	71	83	4	.3	-1.0	.3	18.6	477	93	61	7	0	1	0
TX BROWNSVILLE	96	75	98	70	85	4	.1	-1.2	.1	.1	3	89	47	7	0	0	0
TX CORPUS CHRISTI	93	73	95	70	83	3	T	-1.2	T	.1	3	88	49	7	0	0	0
TX DEL RIO	96	72	101	67	84	5	T	-.8	T	0	0	73	27	7	0	0	0
TX EL PASO	95	63	98	59	79	6	0	-.3	0	1.0	111	59	14	6	0	0	0
TX FORT WORTH	97	72	101	64	85	8	T	-.8	T	.3	14	77	30	7	0	2	0
TX GALVESTON	89	79	93	74	84	4	.2	-1.2	.1	2.1	51	82	66	2	0	0	0
TX HOUSTON	95	72	98	68	84	5	.2	-.9	.1	3.3	100	75	52	7	0	3	0
TX LUBBOCK	91	63	97	50	77	7	0	-.5	0	1.1	73	70	28	5	0	0	0
TX MIDLAND	89	63	94	56	76	2	0	-.4	0	2.6	217	75	30	5	0	0	0
TX SAN ANGELO	91	68	95	63	79	4	0	-.7	0	6.7	353	76	35	6	0	0	0
TX SAN ANTONIO	94	74	97	71	84	6	T	-.9	T	4.2	162	87	45	7	0	1	0
TX VICTORIA	93	73	94	69	83	3	.3	-.8	.3	2.9	91	93	52	7	0	1	0
TX WACO	97	72	101	69	85	7	.1	-.7	.1	.5	22	83	42	7	0	1	0
TX WICHITA FALLS	98	66	101	51	82	6	T	-.7	T	1.8	90	74	28	6	0	1	0
UT BLANDING	81	49	86	44	65	2	0	-.2	0	.9	129	53	15	0	0	0	0
UT SALT LAKE CITY	79	53	90	44	66	2	.1	0	.1	.8	200	61	22	1	0	1	0
VT BURLINGTON	66	45	73	37	56	-3	1.7	1.0	.9	3.4	155	92	68	0	0	3	2
VA LYNCHBURG	82	66	93	63	74	6	.6	-.2	.5	1.0	42	91	--	1	0	2	0
VA NORFOLK	86	69	94	63	77	6	.1	-.8	.1	.3	10	87	45	2	0	1	0
VA RICHMOND	86	66	94	61	76	7	T	-.8	T	.5	19	99	51	0	0	1	0
VA ROANOKE	82	65	91	63	73	6	.6	-.2	.5	1.3	52	91	55	1	0	3	0
WA COLVILLE	67	45	77	34	56	-2	.2	0	.1	1.1	183	--	--	0	0	3	0
WA OMAK	75	49	85	38	62	0	0	-.1	T	1.5	500	78	25	0	0	0	0
WA QUILLYUTE	63	49	76	45	56	0	1.2	-.1	.8	5.3	171	72	74	0	0	4	1
WA SEATTLE-TACOMA	66	53	77	51	59	0	.4	-.1	.2	1.4	108	89	62	0	0	0	0
WA SPOKANE	68	45	79	35	57	-2	T	-.2	T	.8	160	88	43	0	0	1	0
WA WALLA-WALLA	74	56	85	51	65	0	.2	0	0	1.5	300	72	38	0	0	0	0
WA YAKIMA	75	46	87	36	61	1	T	-.1	T	.5	167	82	36	0	0	1	0
WV BECKLEY	76	58	79	52	67	5	.1	-.7	.1	.8	33	94	60	0	0	3	0
WV CHARLESTON	80	61	85	55	71	4	.2	-.5	.2	1.1	52	90	62	0	0	2	0
WV HUNTINGTON	80	61	86	55	70	3	.1	-.6	.1	.8	38	92	60	0	0	2	0
WV PARKERSBURG	78	59	84	52	69	2	T	-.6	T	1.5	75	92	57	0	0	0	0
WI GREEN BAY	66	48	72	39	57	-1	.6	-.2	.2	3.2	133	92	62	0	0	5	0
WI LA CROSSE	75	54	100	39	65	4	2.8	2.0	0	8.1	337	89	61	1	0	0	0
WI MADISON	68	49	77	36	59	0	2.1	1.3	1.0	6.8	283	95	54	0	0	3	2
WI MILWAUKEE	67	51	73	43	59	-1	1.5	-.8	.8	3.2	145	84	56	0	0	3	2
WI CASPER	76	44	89	35	60	2	T	-.2	T	0	0	62	22	0	0	2	0
WY CHEYENNE	77	45	84	41	61	4	1.0	-.8	.9	1.0	125	54	25	0	0	2	1
WY LANDER	75	43	86	39	59	2	T	-.3	0	.1	14	47	19	0	0	0	0
WY SHERIDAN	72	43	82	32	58	1	.9	-.6	--	1.2	133	80	26	0	1	0	0
PR SAN JUAN	90	79	93	78	85	4	.4	-1.0	.1	2.3	52	83	57	5	0	4	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 5° above normal. Rain most areas; 0.25 in. extreme north to 3.00 in. on Gulf Coast.

Fieldwork: 4.9 days suitable. Soil moisture mostly short. Activities: Harvesting cotton, soybeans, corn; land preparation; chemical applications; care of livestock and poultry. Corn: Mature 99%, 97% 1979, 94% average; harvested 71%, 58% 1979, 40% average. Soybeans: Setting pods 99%, 98% 1979; leaves turning yellow 58%, 44% 1979, 49% average; dropping leaves 34%, 22% 1979; mature 20%, 10% 1979, 23% average. Cotton: Bolls open 70%, 29% 1979, 38% average; harvested 10%, 1% 1979, 5% average. Peanuts: Dug 24%, 28% 1979, 40% average; combined 14%, 18% 1979, 81% average. Condition: Corn, soybeans, cotton, peanuts, pasture, poor; sorghum poor to fair.

**ALASKA:** Tanana Valley began on the mild side but turned cooler. Matanuska Valley temperatures averaged about 2° above normal. Kenai Peninsula temperatures averaged 2 to 3° above normal.

Cool, cloudy weather and precipitation continued to delay grain harvesting. Barley combining less than 15% complete compared with 50% recent years. Suitable days harvesting varied zero to 5. Moisture content of grains remained high throughout railbelt. Warm dry days needed for combining. Wind, rain damage to grains light to moderate. Potato digging in wind up stage. Topsoil moisture supplies adequate to mostly surplus.

**ARIZONA:** Fair weather, strong warming trend. Light rainfall amounts reported early in week, Hawley Lake area. Temperatures averaged 1 to 3° above normal, but slight cooling trend end of week.

Cotton continues to develop with 85% of stands having open bolls. Harvest continues on limited scale. Defoliating in progress Yuma, Central Valley areas. Irrigation mostly complete except higher elevation growing areas. Corn harvest continues on limited scale. Sorghum harvest continues. Planting 1981 sugarbeets in progress. Alfalfa haying continues with western areas almost complete 6th cutting, other areas mostly in 5th. Field activities fall vegetables, melons well advanced, thinning lettuce active Salt River Valley, limited basis. Stands all major vegetables, melon crops good. Lettuce harvest expected shortly southeast. Green chili harvest good progress Cochise County. Lemon picking increasing, mostly Yuma. Other new crop fruit sizing well, groves good condition. Lack of rainfall, above average temperatures increased deterioration range. Heavier fall livestock sales due poor conditions. Southeast poor, fair range, livestock fair. Southwestern very poor range, livestock poor. Fair central and northern regions, livestock fair to good. Water short to adequate.

**ARKANSAS:** Temperatures continued well above normal. Some rain.

Soil moisture short. Fieldwork possible 7.0 days. Soybeans 98% blooming, 82% setting pods, 45% yellowing, 38% shedding, 13% mature, 1% harvested, 0% 1979, 1% average. Grade, quality of rice below normal, 100% headed, 66% ripe, 33% harvested, 16% 1979, 24% average. Cotton yields lower than normal. Open bolls 85%, 31% 1979, 41% average, 9% harvested, 1% 1979, 4% average. Corn 95% harvested, 28% 1979, 43% average. Sorghum 81% harvested, 39% 1979, 52%

average. Livestock fair condition. Hay and concentrates being fed. Pastures supplying below average feed. Some farmers were baling rice straw, sorghum stubble, or soybean plants to supply cattle feed.

**CALIFORNIA:** Average temperatures below normal except south coast and southern Deserts where temperatures were near normal. Rainfall from passing showers confined to the north and amounts were mostly light.

Rice 83% headed, 45% turning color, 2% harvested; fields being drained. Open cotton bolls 30%. Irrigation near completion. Corn silage cut. Sugarbeets, safflower, dry beans, alfalfa seed, and hay harvest active. Land preparation for small grain planting active. Dates progressing normally. Dried figs, nectarines, Freestone peaches nearing completion. Raisin grape harvest at peak. Winery workers' strike settled. Olives and pomegranates continue. Almonds moving into later varieties, walnuts underway. Valencias nearing completion. Navel crop looking good. Artichoke harvest moderate. Broccoli fairly heavy central coast. Cantaloups decreasing Westside; harvesting West Riverside. Carrot shipments moderate Salinas Valley. Cauliflower harvest active central coast. Summer potato harvest decreasing. Digging fall crop increasing slowly in Tulelake. Sweetpotato harvest increasing. Market tomato harvest still light San Diego, Orange Counties; active central districts. Processing tomatoes 85% harvested. Movement livestock from summer ranges progressing moderate rate. Calving underway San Joaquin Valley. Cattle coming off summer ranges very good condition.

**COLORADO:** Rains mainly confined to mountain areas. Only scattered precipitation reported elsewhere. Temperatures averaged well above normal, especially in eastern areas.

Winter wheat seeded 72%, 70% 1979, 83% average; emerged 36%, 42% 1979, 53% average. Barley harvest nearing completion. Spring wheat harvested 82%, 89% 1979. Corn dented 87%, 83% 1979; mature 31%, 15% 1979, 45% average. Silage harvested 62%, 58% 1979, 69% average. Sorghum turned color 79%, 77% 1979, 84% average; ripe 25%, 39% 1979, 24% average; forage harvest 32%. Dry bean cut 57%, 70% 1979, 80% average; threshed 37%, 41% 1979, 50% average. Onions harvested 39%, 31% 1979. Six days suitable for fieldwork. Ranges and pastures fair condition. Livestock good condition.

**FLORIDA:** Scattered showers, thunderstorms over Peninsula early week. Showers moved to the Panhandle by the 18th. Almost all areas had some rain. Rainfall averaged around 1.75 in. Panhandle, north, near 1.00 in. central, around 1.50 in. south. Temperatures averaged near 2° above normal.

Moisture mostly adequate north, central but some dry areas. Adequate to excessive south. Panhandle received some showers but more rain needed most localities. Early corn about harvested, peanut harvest increasing, some delay due showers. Early planted soybeans maturing, combining should begin before end of month. Soybeans only fair condition. Haymaking continues. Sugarcane mostly excellent condition. Growing season near ideal. Panhandle pastures improved somewhat. North central area showing stress.

Central and southern pastures good to excellent. Cattle fair to mostly good condition. Citrus grove condition very good to excellent. Moisture adequate except upper interior citrus belt, some irrigation. First grapefruit picked for the 1980-81 season. Land preparation, planting continues very active, weather permitting. Harvest light, early acreage squash, sweet corn, pole beans active for local market. Cabbage transplanting underway. General crop condition good to very good. Fieldwork very active, weather permitting.

GEORGIA: Temperatures generally 2 to 5° above normal, except mountains near normal. Rainfall spotty and variable, with showers in mountains and southwest. Most sections received in excess of 0.50 in., except east central quite sparse.

Soil moisture very short to short. Five days suitable for fieldwork. Stress reduced but hope for recovery slim. Continued insect infestation. Corn mostly poor to fair, virtually all mature, 83% harvested, 73% last year, 60% average. Soybeans mostly poor to fair, 91% setting pods, 20% leaf drop, about 1% harvested, 1% last year and average. Peanuts mostly poor to fair, 36% dug, 57% last year, 59% average, 25% threshed, 40% last year, 45% average. Some fields harvested for hay only. Cotton poor to fair, 87% open, 63% last year, 24% harvested, 6% last year and average. Small grain planting, wheat 2%, 8% last year, 6% average; rye 3%, 7% last year, 8% average; other small grains 4%, 10% last year, 9% average. Apples fair, 79% picked, 39% last year. Pecans fair. Pasture and hay crops poor. Cattle mostly fair to good. Hogs fair to good.

HAWAII: Wet weather some areas. Heavy downpour pelted eastern areas, Island of Hawaii and Kauai, slowing crop progress. Elsewhere, weather generally favorable for crop development.

Irrigation continuing in drier sections. Spraying frequent to control disease and insect infestations. Vegetable supplies adequate and up for most items. Banana harvesting light. Papaya harvesting up. Seasonal flush in progress. Pineapple low harvest will continue. Heavy rains eastern coast Island of Hawaii interrupted sugar harvesting some areas. Pastures generally fair to good. Rains beneficial.

IDAHO: Temperatures near normal. Rain and thunderstorms. Cooler temperatures and more rain on weekend. Snow reported above 7000 feet.

Spring wheat harvested 88%, 92% 1979, 89% average. Spring barley harvested 87%, 93% 1979, 88% average. Winter wheat harvested 96%, 99% 1979, 94% average. Potatoes harvested 10%, 10% 1979, 7% average. Lentils harvested 88%, 100% 1979, 93% average. Dry beans harvested 22%, 44% 1979, 33% average. Winter wheat 20% planted, 9% emerged. Apple picking continues. Rain damages alfalfa seed and dry bean harvests. Four days for fieldwork. Range and pasture very good.

ILLINOIS: Temperatures 1 to 3° above normal. Precipitation 1.00 to 3.00 in. north and south, 2.00 to 4.00 central.

Soil moisture 13% short, 56% adequate, 31% surplus. Corn condition 4% excellent, 26% good, 49% fair, 21% poor; 95% mature, 77% last year, average 89%; 9% harvested, 1% 1979, 5% average. Soybean condition 4% excellent, 42% good, 48% fair, 6% poor; 85% turning yellow, 78% 1979, 87% average; 60% shedding leaves, 55% 1979, 67% average; 8% harvested, 6% 1979, 11% average. Winter wheat acreage 4% seeded, 4% 1979, 4% average. Alfalfa 6% excellent, 65% good, 23% fair, 6% poor; third crop cut 91%, 88% 1979, 89%

average. Pastures 12% excellent, 54% good, 28% fair, 6% poor. Fieldwork: 3.8 days suitable.

INDIANA: Temperatures ranged from 40 to 93°. Showers early in period averaged 1.60 in. west and north, to 0.60 central and southeast. Humidities about normal.

Soil temperatures above normal. Fieldwork averaged 5.0 days. Topsoil and subsoil moisture adequate. Corn 75% mature, 1979 50%, average 60%. Corn 4% harvested, 1979, 2%, average 3%. Corn moisture 28%. Soybeans 60% shedding leaves, 1979 45%, average 60%. Soybeans 25% mature, 1979 10%, average 25%. Soybeans 5% combined, 1979 0%, average 5%. Wheat land 50% plowed, 1979 50%, average 55%. Wheat 5% seeded, 1979 5%, average 5%. Tobacco 75% harvested, 1979 75%, average 65%. Silos 60% filled, 1979 45%, average 55%.

IOWA: Mild, dry week excepting heavy showers north. Light frost reported the 12th in several areas with readings as low as 30°.

Fieldwork: 5.6 days favorable. Topsoil moisture: 7% short, 78% adequate, 15% surplus. Subsoil moisture: 10% short, 81% adequate, 9% surplus. Corn in or past dent stage: 99%, 1979 93%, normal 97%. Corn acreage mature: 70%, 1979 61%, normal 81%. Corn acreage harvested: 6%, 1979 1%, normal 4%. Soybean leaves turning: 95%, 1979 90%, normal 95%. Soybean leaves shedding: 66%, 1979 50%, normal 68%. Soybeans mature: 38%, 1979 20%, normal 54%. Soybean acreage harvested: 4%, 1979 2%, normal 6%. Crop conditions improved, pasture condition mostly good. Grain movement moderate to heavy.

KANSAS: Precipitation little or none southwest, south central and extreme west, 0.50 in. east and north central. Temperatures averaged 83° northwest and 66 to 70° elsewhere or 4 to 7° above normal.

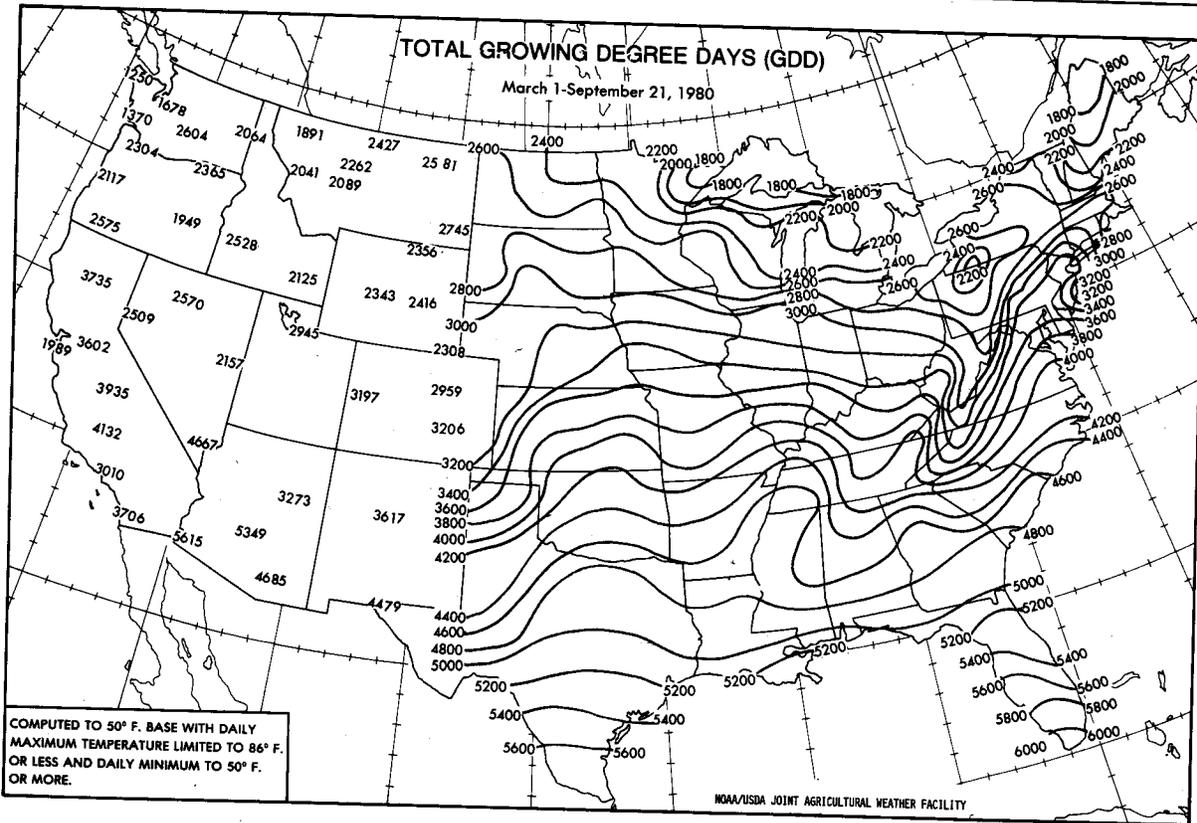
Winter wheat planted 30%, 1979 30%, average 25%. Fall armyworms problem. Corn 95% dented, 90% year earlier and average; 70% mature, 1979 55%, average 65%; 25% harvested as grain, 10% previous year and 15% average. Sorghum 97% headed, 98% 1979, 97% average; 75% colored, 80% last year, 75% average; 30% matured, 30% year ago, 35% average, 15% harvested, 4% year earlier, 10% average. Soybeans shedding 40%, 35% last year. Alfalfa 3d cut 97% done; 4th cut 40%, 60% year ago, 40% average; new plantings, 80% completed, 85% year earlier and 75% average.

KENTUCKY: Temperatures averaged from near normal to around 5° above normal. Most areas received some precipitation with amounts ranging from less than 0.10 in. to over 1.50 in.

Soil moisture 33% very short, 46% short, 21% adequate. Corn 82% mature, 26% harvested. Last year 6% harvested, average 11% harvested. Soybeans 25% dropping leaves, 17% last year, 15% average. Soybean harvest 6% complete, average 2%, none reported harvested to date last year. Burley 90% cut, slightly ahead of last year, average 82% cut. Dark tobacco 86% cut, ahead of last year's and average of 82% cut. Winter hay supply adequate except short in west. Less than 5% of wheat for grain seeded.

LOUISIANA: Scattered thundershowers. Temperatures 5 to 11° above normal. Extremes: 63 and 104°.

Soil moisture short. Fieldwork: 5.7 days suitable. Corn harvested 86%, 84% 1979, 77% average. Cotton poor. Bolls open 72%, 34% 1979, 45% average. Harvested 11%, 0% 1979, 2% average. Rice ripe 96%, 95% 1979. Harvested 85%, 88% 1979, 87% average. Sorghum poor to fair. Turning color 90%, 88% 1979.



Ripe 78%, 78% 1979. Harvested 65%, 44% 1979, 47% average. Soybeans poor to fair. Leaves turning 59%, 38% 1979. Shedding 35%, 19% 1979. Harvested 5%, 0% 1979, 3% average. Sugarcane fair. Planted 45%, 36% 1979, 35% average. Vegetables poor. Sweet-potatoes harvested 55%, 44% 1979, 45% average. Sweet-potatoes poor to fair. Pastures poor. Haying limited. Livestock fair. Supplemental feeding continued.

**MARYLAND AND DELAWARE:** Temperatures averaged 5° above normal. Highs in mid to upper 80's, lows in 60's. Precipitation varied.

Corn for silage, 85% cut, last year 50%. Corn harvested for grain, 30%, last year 20%. Soybeans 100% podded, 40% yellowed and 20% shed leaves. Tobacco, 85% harvested, last year 95%. Barley, wheat and rye seeded 25%, oats 5% planted. Soil moisture short to adequate. Pastures short. Fieldwork: 6.5 days suitable.

**MICHIGAN:** Temperatures near normal over Lower, 5 to 6° below normal in Upper. Precipitation above normal with local heavy amounts. Most areas 1.00 to 2.00 in. Western Upper and west central Lower 2.50 in. Less than 0.50 in. fell in extreme southeast Lower.

Cool, wet weather slows field activity to near standstill. Harvest progress slow. Soil moisture supplies adequate to surplus. Corn: 95% dented, 82% last year, 91% average. Corn: 30% mature, 17% last year, 35% normal. Corn: 20% ensilaged, 22% last year, 38% normal. Dry beans little progress, 35% picked, 50% last year, 49% average. Potato digging no progress, 35% dug, 39% last year, 40% normal. Soybeans 30% leaves shed, same as last year, 51% normal. Winter wheat 5% planted, 27% last year, 15% normal. Apple and grape harvests getting into full swing. Peach, pear and plum finished or

near completion. Pickles, sweet corn and tomato harvests done or nearly so. Onions 71% pulled, 74% last year, 67% normal.

**MINNESOTA:** Temperatures averaged 5° below normal in northern two-thirds of State and near normal elsewhere. Precipitation averaged 0.50 in. below normal west central and central, slightly above normal north central and northeast, over 1.00 in. above normal in the south central and southeast, near normal elsewhere. Precipitation totals ranged from zero in extreme west central to 4.00 in extreme southeast.

Wet weather, soft fields continued to curtail or delay fieldwork most areas. Light frost few localities but very little damage done as crops generally nearing or have surpassed frost danger. Soybeans: Shedding leaves 82%, 1979 41%, normal 80%; mature 20%, 1979 6%, normal 43%. Field corn: Mature 71%, 1979 10%, normal 60%; picked 1%, 1979 0%, normal 3%; silage cut 32%, 1979 8%, normal 53%. Sunflowers: Bracts turning brown 88%, 1979 34%, combined 7%, 1979 0%, normal 11%. Sweet corn for processing: Harvested 95%, 1979 81%, normal 94%. Sugarbeets: Harvested 1%, 1979 0%, normal 2%. Flax: Combined 50%, 1979 45%, normal 67%. Potatoes: Dug 34%, 1979 24%, normal 34%. Seeded: Winter wheat 78%, 1979 64%, normal 65%, rye 76%, 1979 58%, normal 60%.

**MISSISSIPPI:** Temperatures several degrees above normal. Extremes: 53 and 104°.

Soil moisture very short to short. Fieldwork: 6.0 days suitable. Southern counties received some rain. Cotton and soybean harvesting moving ahead. Some problems with green clover worms in soybeans. Hay harvested, 88%, 85% 1979, 83% average. Sorghum silage 91% harvested, 77% 1979. Peanuts 50% harvested, 51%

1979, 46% average. Corn 65% harvested, 47% 1979, 36% average. Sweetpotatoes 28% harvested, 27% 1979, 35% average. Winter wheat planted 4%, 14% 1979, 16% average. Soybeans 53% shedding, 39% 1979, 41% average; 16% mature, 12% 1979, 14% average; 3% harvested, 3% average; condition poor to very poor. Sorghum 89% ripe, 75% 1979; 37% harvested, 30% 1979, 41% average. Cotton 94% open bolls, 66% 1979, 69% average; 6% harvested, 5% average; condition fair to poor. Rice 86% mature, 73% 1979; 50% harvested, 34% 1979, 31% average; condition fair. Corn poor condition. Pastures poor condition. Pecans poor to fair condition.

MISSOURI: Temperatures averaged near normal in the north and 2 to 6° above normal elsewhere. Precipitation averaged 1.00 in.

Fieldwork: 4.6 days suitable. Corn 84% mature, last year 59%, normal 63%. Corn 32% harvested. Grain sorghum 87% coloring. Grain sorghum 57% mature, last year 53%, normal 59%. Grain sorghum 28% harvested, last year 11%, normal 16%. Soybeans 70% turning color, last year 54%. Soybeans 20% mature, last year 18%, normal 20%. Soybeans 6% harvested, last year 3%, normal 4%. Winter wheat 7% seeded, last year 10%. Cotton 85% with open bolls, last year 44%, normal 52%. Cotton 27% harvested, last year 0%, normal 0%. Condition of cotton, soybeans and pastures poor to fair. Topsoil moisture supplies short.

MONTANA: Frequent rain or snow brought generally moderate amounts of precipitation. Some heavy rain or snow fell early in week over northwest mountains and along east slopes of Divide. Temperatures mostly mild with warmest over southern areas. In southwest, temperatures were 1° above normal, while west, south central and southeast were 2° above normal. In northeast, temperatures were 1 to 2° below normal. Highest temperature 84, lowest 28.

Moisture supplies short to adequate. Fieldwork: 4.0 days suitable. Winter wheat 50% planted. Winter wheat germination fair to good. About 35% of cattle and 40% of sheep moved from summer ranges. Fall grazing prospects fair. Crop harvesting to date: Percent followed by previous year and average. Spring wheat, 90%, 90%, 90%; barley 85%, 80%, 85%; Oats 85%, 90%, 90%; corn silage 55%, 55%, 55%; Dry Beans 45%, 30%, 40%; Second cutting alfalfa hay 95%, 80%, 85%; potatoes 10%, 10%, 10%.

NEBRASKA: Temperatures 5° above normal in Panhandle; 2° above normal elsewhere. Precipitation 0.33 in. over extreme south; trace amount elsewhere.

Dryland corn mostly fair to poor. Irrigated corn good to fair. Corn 70% mature, 30% last year and 65% normal. Harvested 8%, not yet begun last year. Sorghum mostly fair to good, 80% mature, 15% last year and 40% normal. Harvested 10%, 1% last year. Secondary growth slowing harvesting progress. Soybeans mostly fair to good, turning 85%, 80% last year and 90% normal, shedding leaves 55%, 25% last year and 55% normal, harvested 5%, last year 1%. Winter wheat seeding 70%, last year 75% and 60% normal. Topsoil moisture 73% short and 27% adequate. Subsoil moisture 80% short and 20% adequate. Pasture and range feed supplies mostly short to adequate. Days suitable 6.5.

NEVADA: Cold front dropped temperatures north early in period. Warming trend midweek, cooling trend rest of week. Temperatures averaged several degrees above normal northeast and south, near normal elsewhere. Light precipitation north early and end of period.

Sixth cuttings alfalfa hay well along extreme south. Alfalfa seed harvest progressing with mostly sunny weather. Livestock starting to move lower elevation.

NEW ENGLAND: Dry, cool air early week. Rains midweek; 0.40 to 0.80 in. most areas, but 1.00 in. or more in Connecticut. Very warm air returned by week's end.

Midweek rain helped relieve dry conditions in south. Potato harvest in Aroostook County, Maine 15% complete, a little behind normal. Corn silage harvest well underway south, just starting north. Good yields, but slow to mature. Growers harvesting winter squash, picking peppers, eggplant and cabbage. Summer squashes, cucumbers, melons, sweet corn and tomatoes running out. Apple picking underway. First cranberry harvests began. Berries small, not well colored. Soil moisture, grazing conditions adequate in Vermont, but short to very short elsewhere.

NEW JERSEY: Temperatures averaged 1 to 3° above normal. Extremes: 38° and 90°. Rainfall averaged 0.83 in. north, 0.81 in. central and 0.67 in. south. Estimated soil moisture, in percent of field capacity, averaged 41 north, 53 central and 30 south.

Fieldwork: 5.9 days suitable. Showers beneficial but most areas need a good soaking rain. Iceberg lettuce harvest underway. Fall cabbage harvest increasing. Peach harvest about complete. Apple harvest active. Cranberry harvest increasing. Soybean combining begun. Corn silage making well advanced. Harvest of corn for grain underway. Pastures brown, some hay being fed to livestock. Cover crops and barley for grain being sown.

NEW MEXICO: Soil moisture continued short in the northeast with an adequate supply elsewhere. Irrigated crops continue in good condition while dryland crops are poor to fair. Cotton remains in good condition with development increasing due to warmer temperatures. First bale ginned but activity expected to be limited until after the first. Alfalfa hay harvest continued to be disrupted due to rainy conditions. Most southern areas finishing fourth cutting and starting fifth. Winter wheat seeding continuing with approximately 85% of irrigated crop planted and 60% of dryland crop planted. Corn in good condition. Poorer grain acreage being cut for silage all areas while grain harvest beginning on the east-side. Irrigated grain sorghum in fair to good condition with almost all of the crop past the dough stage. Ranges in fair to good condition and continuing to show improvement. Livestock good condition.

NEW YORK: Near normal temperatures, subnormal rainfall. Most areas dry.

Corn silage harvest 14% complete, 15% 1979, 22% average. No frost so far. Third cutting alfalfa 63% in, 57% 1979, 61% average. Winter wheat planting, dry bean harvest progressing. Upstate vegetable crop harvests moving ahead. Long Island potato harvest increasing, all growing crops being irrigated. Champlain, Hudson Valley apple harvests moving slowly. Growers waiting for color. Grape harvest active, Elberta Peach harvest starting.

NORTH CAROLINA: Temperatures 3 to 6° above normal. Precipitation generally 0.25 in.

Fieldwork: 6.0 days suitable. Soil moisture: 38% very short, 54% short, 8%

adequate. Conditions: Apples fair to good, cotton, peanuts, sweetpotatoes, sorghum fair; pastures, soybeans poor to fair. Harvested: Cotton 17%, 1979 5%, average 2%; sweet potatoes 19%, 1979 27%, average 21%; sorghum grain 19%; soybeans just underway; burley tobacco 73%, 1979 86%, average 73%; corn for grain 65%, 1979 49%, average 48%; corn for silage 87%, 1979 79%; peanuts dug 7%, 1979 2%, average 6%; peanuts threshed 2%, 1979 1%, average 4%; apples 44%, 1979 47%, average 43%. Phenological stages: Cotton opened bolls 90%, 1979 34%; corn mature 95%, 1979 94%; soybeans pod set 89%, 1979 84%; soybeans leaves dropped 8%.

**NORTH DAKOTA:** Another cool, damp week brought small grain harvest to almost a standstill and caused additional crop quality deterioration. Current harvest progress vs. last year and average. Hard red spring wheat 86, 87, 92; durum 74, 76, 83; barley 89, 96, 97 and oats 92, 95, 96. No serious frost damage to crops occurred. Row crops continue to mature but need more warm, dry weather. Sunflower, 5% still in bloom with harvest to become general in 2 weeks. Dry Beans: 14% harvested compared to 52% average. Potatoes: 25% dug vs. 29% average. Pastures continue to improve. Subsoil moisture supplies at best level of the year.

**OHIO:** Cool, damp weather early in the week changed to sunny and unseasonably warm weather by weekend. Average temperatures were from 2 to 5° above normal. Rainfall amounts around 0.40 in., about 0.30 in. below normal. Amounts ranged from near zero in the southeast to 0.75 in. elsewhere.

Corn harvesting began in earnest in the southern two-thirds and is expected to start this week in the northern third. No major problems reported. Soybean harvest, which began in a few areas last week, should be getting into full swing. Mexican bean beetles still active in late planted soybeans. Corn reached maturity 65%, 55% 1979, 65% average. Corn harvested 5%, 1% 1979, 3% average. Soybeans, leaves shedding and beyond 65%, 55% 1979, 65% average. Soybeans reached maturity 30%, 30% 1979, 25% average. Potatoes harvested 95%, 50% 1979, 50% average. Wheat planted 5%, 10% 1979, 10% average. Days favorable 5.5. Pasture condition good. Soil moisture 3% short, 84% adequate, 13% surplus.

**OKLAHOMA:** Dry and continued hot. Temperatures ranged from 4 to 8° above normal. Most areas near high end of that range. The 100° temperatures continued. Divisional rainfall ranged from none to 0.40 in. southeast.

Above normal temperatures, dry weather caused dryland crops, pasture conditions to continue to plummet. Topsoil moisture short 100%, subsoil moisture short 85%. Wheat seedbeds prepared 80%, 95% 1979, 90% average; wheat planted 15%, 20% 1979 and average; wheat up to stand 5%, 10% 1979, 5% average. Sorghum milk to dough 90%, 90% 1979, 100% average; sorghum mature 50%, 55% 1979, 60% average; sorghum harvested 10%, 5% 1979, 10% average. Cotton setting bolls 100%, 100% 1979 and average; cotton open bolls 50%, 15% 1979, 25% average. Days suitable for fieldwork: 6.7.

**OREGON:** Temperatures varied from 2° below to 3° above normal. Precipitation averaged 0.30 in. along coast, 0.20 in. in the southwest, 0.50 in. in central and 1.60 in. in the northeastern corner.

Soil moisture supplies short only in southwestern section. Wheat harvest nearly completed. Fall planting of winter wheat 12%, 20% 1979. Harvest of seed crops and hay almost finished. Anjou pear harvest in full swing. Golden Delicious and early

fall apple varieties being picked. Filberts and walnuts sizing well. Filberts beginning to drop. Hybrid variety cranberries nearing full maturity. Potato harvest continuing, good quality. Sweet corn over 50% harvested. Onions mostly dug, drying in field. Livestock condition good to excellent. Cattle moving off ranges. Range and pasture condition fair. Pasture reseeding slowed by rains, still ahead of schedule.

**PENNSYLVANIA:** Warm and mostly dry. Temperatures 2 to 5° above normal. Extremes: 90 and 40°. Showers and thunderstorms in conjunction with cool frontal passage Wednesday brought less than 0.25 in. rainfall most areas but up to 1.00 to 2.50 in. parts of parched southeast and northeast for greatest storm rainfall of entire summer.

Six days suitable. Soil moisture short to adequate. Activities: Baling straw and hay; clipping pasture; fall plowing; harvesting tobacco, tomatoes, potatoes, corn and ensilage corn; filling silos and general farm chores. Tobacco harvest 86%, last year 93%. Potato harvest 63% complete, last year 69%. Ensilage corn 47%, last year 27%. Corn 25% mature, and 3% harvested; last year 12% mature and 1% harvested; average 20% mature and 1% harvested. Fall plowing 63%; last year 70%. Barley planted 37%, last year 18%. Wheat planted 48%, last year 35%. Third cutting alfalfa 81%, same as last year. Fourth cutting alfalfa 38%, last year 30%. Hay quality fair to good. Feed from pasture below average to average.

**SOUTH CAROLINA:** Temperatures averaged considerably above normal. Temperatures in the upper 90's. Scattered showers last half of period.

Days available for fieldwork: 6.0. Crop prospect continue to decline. Corn condition poor, 79% harvested, 73% year ago, 71% average. Cotton condition poor; open bolls 92%, 77% year ago, 75% average; cotton harvested 13%, 4% last year, 6% average. Soybean condition poor due to drought, armyworms; 95% setting pods, 98% last year, 96% average; 33% leaves turning color, 12% last year, 25% average; shedding leaves 19%, 5% last year, 10% average. Tobacco 98% harvested, behind 1979 and average. Pastures, fall hay very poor to poor condition; hay cut 62%, 65% last year, 61% average. Seeding of winter grazing at 19%, year ago 38%, average 27%. Apple harvest at 63%, 81% year ago, 77% average.

**SOUTH DAKOTA:** Rainfall, light in the north, light to moderate south, mostly 0.50 in. and less. Temperatures ranged 2° below normal to 7° above normal. Extremes: 93 and 32°.

Harvesting row crops for grain began on limited basis. Seeding of winter wheat and rye, proceeding rapidly. Topsoil moisture adequate only small parts of the northwest, north central, northeast and east central. Critically short supplies through the center of West River counties extending into the central district. Short elsewhere. Livestock in generally fair to good condition. Soybeans shedding leaves 87%, 71% 1979, 78% average. Sunflowers mature 42%. Soybeans mature 38%. Corn mature 60%, 74% 1979, 81% average. Corn dented 98%, 87% 1979, 87% average. Grain sorghum colored 90%, 85% 1979, 90% average. Grain sorghum harvested 6%, 0% 1979, 4% average. Winter wheat seeded 86%, 81% 1979, 77% average. Rye seeded 91%, 81% 1979, 70% average. Winter wheat emerged 43%, 40% 1979, 40% average.

**TENNESSEE:** Temperatures above normal, ranging from 8° west, 5° middle, to 3° east. Showers widespread. Averages: 1.50 in. west, 0.50 in. east.

Fieldwork: 5.8 days suitable. Soil moisture mostly short. Pastures mostly poor but improving, cattle fair. Corn 85% mature, 1979 63%, average 65%; 30% harvested, 1979 10%, average 11%. Cotton 80% open polls, 1979 17%, average 27%; 15% harvested, 1979 0%, average 6%. Soybeans 10% mature, 1979 1%, average 4%. Burley tobacco 82% harvested, 1979 89%, average 86%; stripping now underway. Lespedeza hay 85% harvested, 1979 72%, average 76%. Winter wheat 18% sown, 1979 12%, average 18%.

TEXAS: Weather: Scattered thunderstorms southeast coastal regions most week. Temperatures 2 to 3° above normal East, High Plains; 4 to 6° above normal Coast, South; 7 to 9° above elsewhere. Precipitation 1.00 in. below normal South, 0.50 in. above normal East; 0.25 in. below normal lower East; 0.50 in. below normal elsewhere.

Crops: Harvesting operations continued. Field crops mature rapidly under hot, dry conditions. Scattered showers Panhandle, North interrupted cotton, sorghum, corn harvest; resumed when conditions permitted. Wheat, oat seeding accelerated; recent rains provided good soil moisture. Cotton defoliation continued High Plains; especially dryland fields which maturing rapidly under hot, dry conditions. Scattered showers interrupted field operations; floods around Roscoe damaged some fields. Cooler temperatures Panhandle helped control bollworm activity, on decrease. Cross-Timbers some fields not harvested; plowed under preparation wheat planting. Stalk destruction Blacklands, Central. Harvest nearing completion Upper Coast. Sorghum harvest gained momentum Panhandle; grazing many dryland fields, poor grain development. Irrigated prospects promising; some headworm damage scattered areas. Corn harvest High Plains. Yields low, even irrigated fields, because hot, dry summer. Central, South Central plowing under stubble. Wheat, oat planting progressed rapidly; many fields seeded following recent showers. Scattered areas High Plains replanted following heavy rains which washed out some fields. Few oat fields Cross-Timbers, Blacklands dry seeded. Peanut harvest behind schedule, hot, dry weather delayed nut set. Dryland fields hardest hit; many baled for hay. Soybean prospects Upper Coast improved after recent rains; pods filling. Blacklands, fields stressed by hot, dry weather being baled for hay. Hay fields, meadows greening-up for another cutting East, Central, South Central. Scattered showers, cooler temperatures revived some fields; Low Plains stress hot, dry weather.

Commercial vegetables: In Lower Rio Grande Valley planting cabbage, lettuce, cauliflower, broccoli active. A few fields 1981 spring onions planted. Most vegetables making good progress. Green peppers harvested light volume. Some citrus trees affected by root rot caused by high underground watertable. In Coastal Bend area planting fall cucumbers completed. Early planted cucumbers making good growth. In San Antonio-Winter Garden area, most fall vegetables making normal progress. However, hot temperatures affecting newly planted stands. Cabbage, green peppers growing well. Tomatoes blooming, but fruit set reduced by hot temperatures. Harvest cucumbers for pickles active. In Central, planting fall vegetables active. Some damage from cabbage loopers present. In East, watermelons, tomatoes, peppers, Okra, egg plant active. Rain needed. Harvest progress sweetpotatoes remained slow. In Trans-Pecos area, production slowed by cooler weather. Harvest chili peppers, tomatoes, squash, watermelons, blackeye peas, green beans active. On High Plains, harvest carrots, peppers, cucumbers, green beans, watermelons active. Pecans in dough stage and affected by insects and droppage.

Range and livestock: Ranges, pastures continued to "green-up" where recent moisture received. However, additional moisture needed. In some southern areas hay baling resumed. In northern, western areas, forage conditions quite varied depending upon moisture received. Supplemental feeding continued and helped maintain livestock fair to good condition. Fall calving beginning and sheep shearing continued. Cotton harvested 20%, 11% 1979, 15% average. Sorghum harvested for grain 74%, 67% 1979, 66% average. Wheat planted all purposes 30%, 35% 1979, 33% average. Corn for grain harvested 56%, 50% 1979, 48% average. Peanuts harvested 20%, 28% 1979, 27% average. Sunflowers harvested 10%, 2% 1979, 22% average.

UTAH: Few isolated showers or thunderstorms principally northwest portion latter part. Accumulated amounts moisture ranged from little or none to light. Cooling trend over weekend. First frost some areas northwest. Average temperatures ranged from 3° below normal to 6° above.

Fieldwork averaged 5.8 days. Major activities included hay harvest, fall grain planting, corn silage harvest, and in some areas, livestock movement from summer ranges. Winter wheat 45% seeded. Early planted acreage emerged and in good condition. Recent rains improved growing conditions. Corn crop dough stage or past, 44% dented. Silage harvest active. Corn for grain still not mature. Harvest of apples, dry beans, dry onions and potatoes in progress. Less than 20% of livestock moved from summer range, but activity increasing. Fall and winter ranges benefited from recent rains.

VIRGINIA: Hot, humid. Temperatures averaged well above normal. Extremes: Upper 90's to low 50's. Rainfall light, spotty occurring as widely scattered thundershowers. Rainfall averaged about 0.33 in. but varied from zero to 1.50 in.

Dry conditions continued. Topsoil moisture short. Fieldwork: 5.7 days available. Corn: 90% mature; 70% silage cut; 40% grain combined, 30% 1979, 32% average. Small grains seeded: Wheat 2%, 2% 1979, 6% usual; barley 4%, 4% 1979, 13% average; winter oats 4%, 5% 1979, 15% usual. Tobacco harvested: Flue-cured 85%, 85% 1979, 81% average; fire-cured 85%, 95% 1979, 88% usual; burley 85%, 85% 1979, 81% average; sun-cured 90%, 95% 1979, 82% usual. Apples 25% picked, 33% 1979, 34% average. Eastern Shore sweetpotatoes 8% dug, 8% 1979. Peanuts 2% dug, less than 1% 1979, 2% average. Peanuts 1% combined, 0% 1979, 1% usual. Soybeans, sorghum cut as hay several areas. Soybean combining just starting. Cabbage cut southwest. Cucumbers, snap beans picked on Eastern Shore. Pastures good southwest, very poor elsewhere. Supplemental feeding livestock. Some cattle sales due to lack of grazing. Stock ponds very low north.

WASHINGTON: West: Temperatures averaged normal to slightly above. Precipitation highly variable but averaged near normal. Harvesting many late season vegetables. Sweet corn harvest just beginning. Picking later varieties blueberries. Beet seed harvest winding down. Seed potato digging underway. Silage corn still growing, needs warm weather. Pastures good. Green chopping continues. East: Temperatures normal. Precipitation much above normal. Picking Red, Golden Delicious apples, quality good. Picking D'Anjou pears, Concord grapes. Hop harvest about complete. Digging pota-

(continued on page 16)

## International Weather and Crop Summary

September 15 - 21

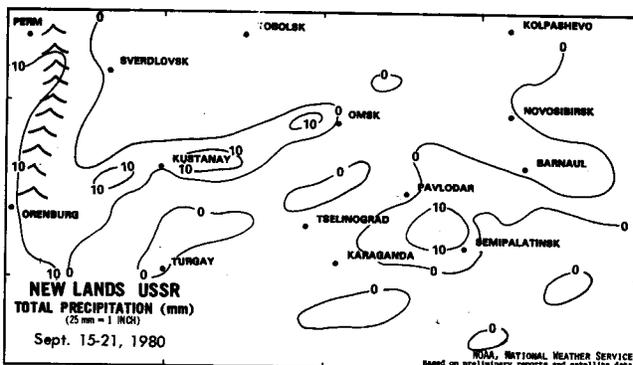
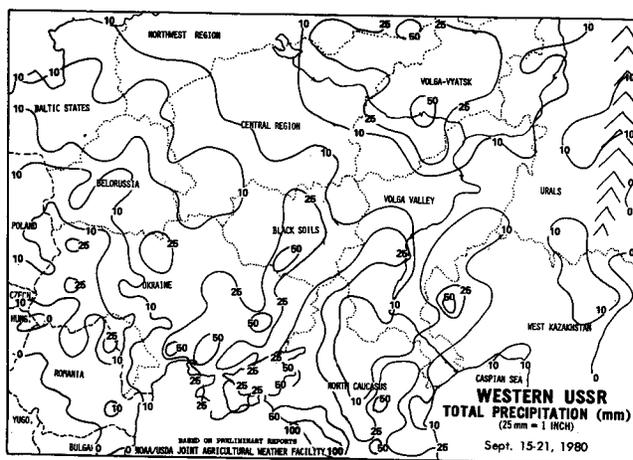
**HIGHLIGHTS:**

- USSR:** Sowing winter grains...too wet in some eastern parts of Ukraine. Harvesting spring grains in northern New Lands...good harvest weather.
- EUROPE:** Sowing winter grains in the north...good rains in France and England.
- CHINA:** Major harvest season in central areas\*...generally favorable weather, but wet in Sichuan and near Shanghai.
- INDIA:** Autumn rice harvest beginning in the north\*...wet in eastern Uttar Pradesh. Cotton flowering in central areas\*...conditions too dry in Gujarat.
- THAILAND:** Good vegetative development in wet season crops\*...substantial rain from Typhoon Ruth.
- AUSTRALIA:** Highly variable winter wheat growth...unfavorably dry weather continues.
- ARGENTINA:** Winter grains in vegetative stage\*...conditions becoming too dry.
- BRAZIL:** Winter grains in vegetative stage\*...favorable moisture conditions.
- CANADA:** Harvesting cereals with some sprouting in swathed fields...wet, humid weather continues.
- MEXICO:** Citrus harvest approaching...too dry in some northeastern orchards.

\*Based on normal crop calendar information.

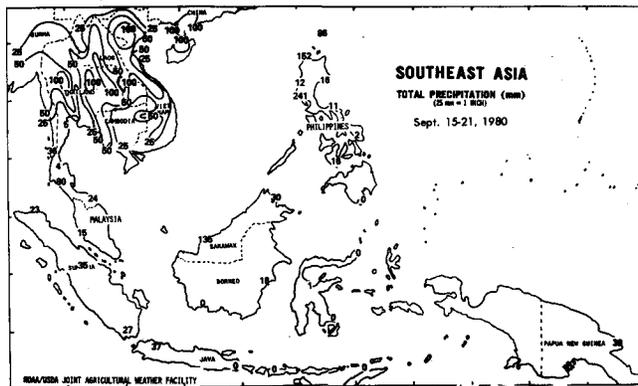
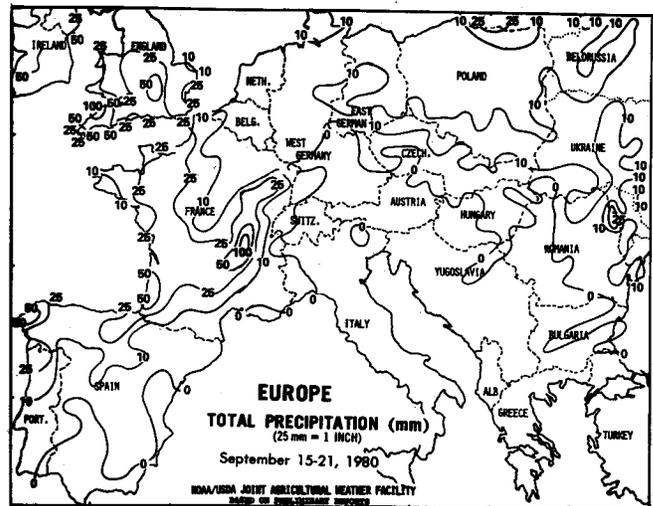
**USSR.** Harvest weather improved in many north-western winter grain areas, but slightly-above-normal rains in parts of southern Belorussia disrupted late harvest activity. Temperatures remained above normal, allowing development of newly sown winter grains. Relatively heavy rains fell across the major part of the winter grain belt. The moisture probably interfered with sowing, especially in the eastern Ukraine, but parts of the North Caucasus needed the rains, having become too dry in July and August. Relatively heavy rains fell as the storm spread to the northeast into the upper Volga Valley, where wet conditions have hampered harvest since the middle of August. Strong, post-frontal winds followed, further complicating the harvest.

In the New Lands, harvest weather improved dramatically in the north, where the greatest field activity is centered. Light rain fell only at scattered locations, and temperatures surged much above normal.



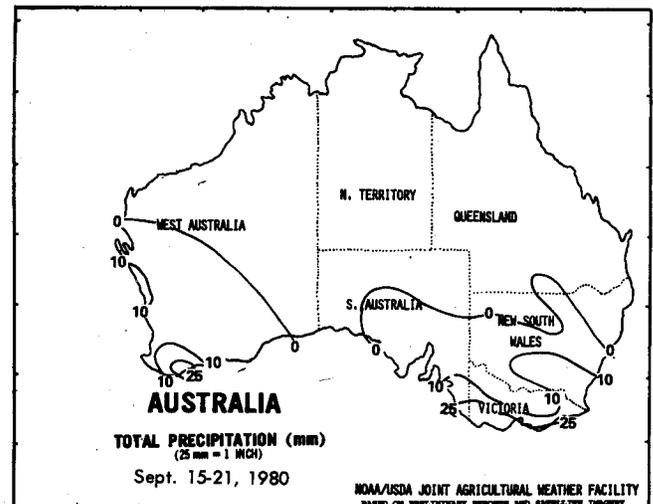
U.S. NATIONAL WEATHER SERVICE  
Based on preliminary reports and satellite data.

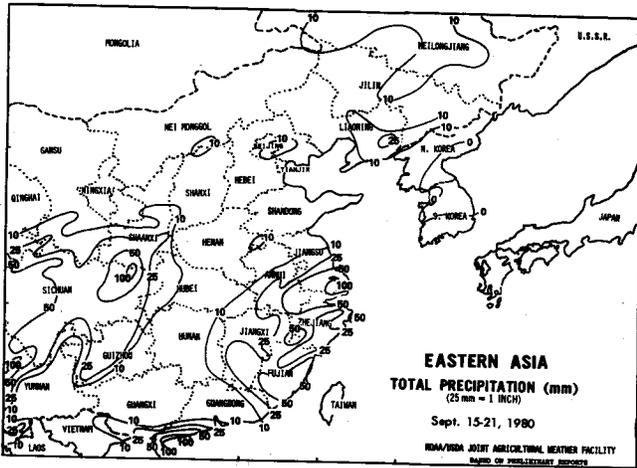
**EUROPE.** The weather cleared during the week in central and eastern countries, providing favorable conditions for final harvesting of spring grains. The fair weather also favored winter grain sowing, and soil moisture should have been good in nearly all areas. Temperatures in the east dipped briefly below freezing but with no significant impact, since no extreme readings occurred, and conditions warmed again quickly. A frontal system moving in from the west at the week's end dropped relatively abundant rainfall over much of France. Substantial amounts fell southward into Spain as well, a normal pattern at this time, wetting soils in advance of winter grain sowing.



**SOUTHEAST ASIA.** Eastern Thailand received significant rainfall largely due to the remnants of Typhoon Ruth as it passed over Indochina early in the week. Above-average weekly totals of more than 100 mm fell in this portion of Thailand as well as in northern Vietnam and Laos. Estimates in some areas were based on satellite photos as well as scanty meteorological data. Further west in Thailand, below-average rain fell on much of the rice growing area, except for a narrow band in the Central Plains where more than 100 mm were reported. The wet season rice crop must receive ample moisture in September before the tropical monsoon season tapers off.

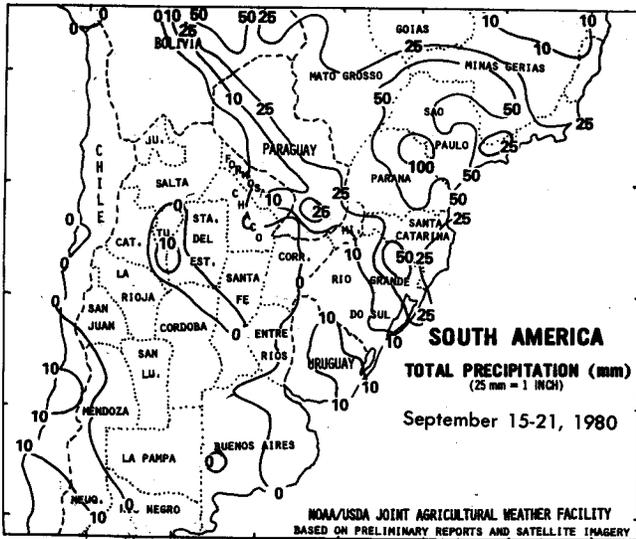
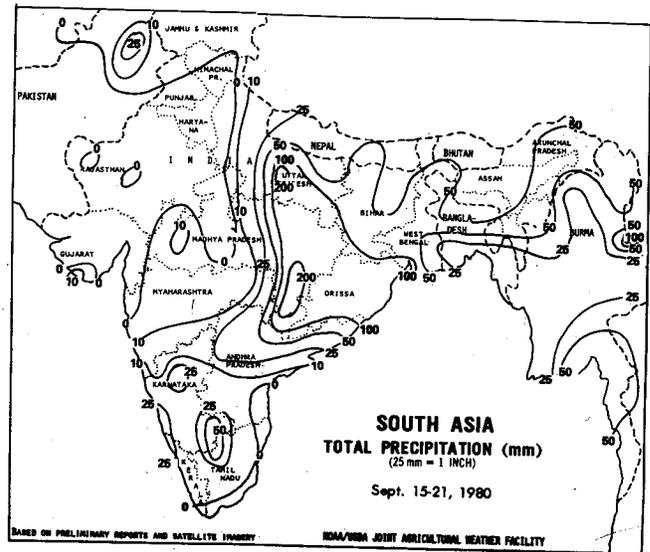
**AUSTRALIA.** Significant rain (10 to 25 mm) fell only along coastal portions of West Australia and Victoria, as well as in southern New South Wales. Moisture supplies remain adequate for the wheat crop, now in vegetative growth, in both South Australia and Victoria. However, stress from prolonged dryness is increasing in portions of West Australia, New South Wales, and Queensland. The situation is becoming critical in northern New South Wales and Queensland, where the crop is most advanced in phenological development. Rain is needed within the next few weeks as the crop passes through reproduction and into grain formation.



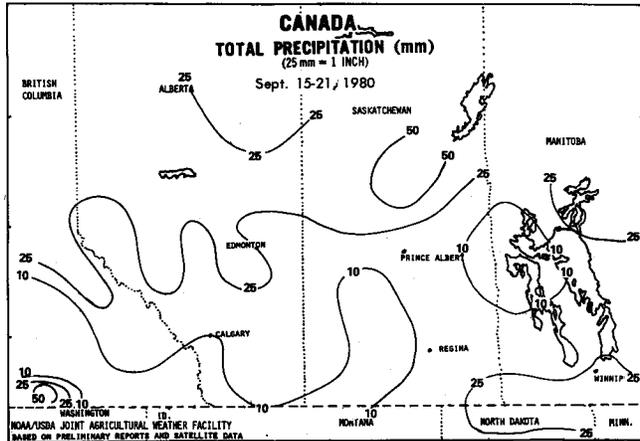


**CHINA.** Good harvest weather continued in the middle and lower Yangtze Valley early in the week. Typhoon Percy moved inland at Shanghai and dumped relatively heavy rainfall over lower portions of the valley on the weekend, but no extreme rainfall was recorded. Most other important agricultural areas had favorable harvest weather for the entire week, but wet conditions persisted in the Sichuan Valley where the intermediate rice crop is little more than half harvested.

**SOUTH ASIA.** Relatively dry weather continued in northwestern India as westerly winds kept rains to the east. A vigorous storm moved in through Orissa from the east, drifted northward into Uttar Pradesh, and then dissipated against the Himalayas. The resulting heavy rainfall will hamper rice maturation. In spite of persistent, excessively wet weather in central and eastern portions of northern India, and an apparent early termination of the monsoon in the northwest, Indian officials are anticipating a record rice harvest. Major cotton areas in Gujarat have been receiving below-normal rainfall since early August, putting some stress on cotton which should now be in the flowering and boll-setting stages. To the south, rainfall increased in previously dry areas of Karnataka and Tamil Nadu, improving conditions for planting late-season crops.

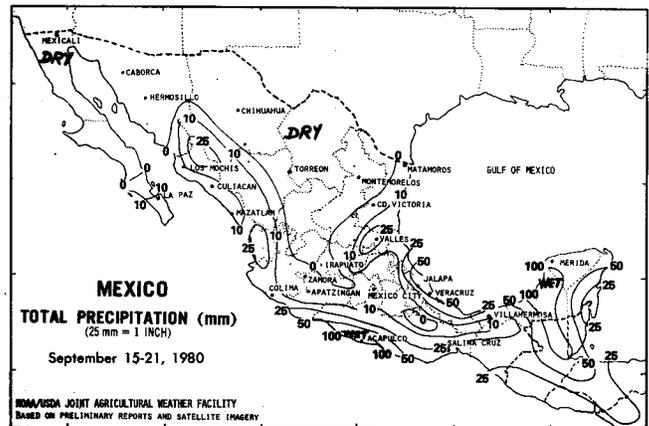


**SOUTH AMERICA.** Dry weather continued in Argentina's wheat belt which includes the Provinces of Buenos Aires, La Pampa, Cordoba, Santa Fe, and Entre Rios. Topsoil moisture is low, and rain will be needed to meet the moisture demand of the crop as it advances through vegetative growth. Cold temperatures produced scattered frost in northeastern Argentina on the 15th and 16th; however, wheat has a high resistance to frost during vegetative growth. The scattered light frost did not pose a serious problem to citrus in northern Argentina. In Brazil, weekly precipitation totals in Rio Grande do Sul State generally ranged from less than 10 mm in the south to 15 to 25 mm in the north. However, locally heavy rain (50 to 100 mm) fell in northeastern Rio Grande do Sul and northern Parana States. Moisture is adequate to date for Brazil's wheat crop.



**CANADA.** A series of low pressure systems moved through the Canadian Prairies producing showers almost every day this week. The smallest amounts (10 mm or less) occurred in western Saskatchewan. Elsewhere in the wheat belt, weekly rainfall totals were generally 10 to 25 mm. The wet, humid weather continues to impede harvesting. Fields are too wet for combining, and sprouting has occurred in swathed fields.

**MEXICO.** High pressure aloft maintained unseasonably dry weather over the north and well into the Southern Plateau. Heavy showers fell along the southern coasts and Yucatan Peninsula. Most of the major citrus, vegetable, cotton, and corn production areas were hot and dry, which was excellent for fieldwork and crop maturation but depleted soil moisture. Some northeastern citrus fruit is probably not sizing well because of lack of moisture. Rainfall was very light over the northwestern watersheds in contrast to the heavy amounts of previous weeks during the current rainy season.



(continued from page 12)

toes. Harvesting sweet corn. Rain interrupted third cutting alfalfa. Rain caused crusting over some recently seeded grain acreage. Reseeding underway. Grain planting progressing well. Harvest ending. Dry pea harvest complete, lentils, dry beans well along. Some open range forage shortages.

**WEST VIRGINIA:** Temperatures 4° above normal. Extremes: 91 and 43°. Precipitation below normal.

Soil moisture adequate to short. Days suitable for fieldwork 5.3. Major activities: Haying, silage harvesting, pasture clipping. Corn good to fair, 3% silked, 31% dough stage, 57% mature, 9% harvested. Tobacco fair to good, 99% topped, 84% harvested, 85% of normal. Hay good to fair, 2nd cutting 88% harvested, 85% of normal, 3rd cutting 57% harvested, 85% of normal. Potatoes fair to good, 80% harvested, 81% of normal. Pasture fair to good. Gardens fair to good. Wheat 5% planted, barley 10% planted.

**WISCONSIN:** Temperatures 5° below normal. Highs in 50's and 60's but warming to 60's and 70's. Lows dropped to upper 20's north morning 17th, bringing first frost of fall. Rainfall continued heavy as a series of fronts moved through. Weekly totals averaged 2.00 to 3.00 in. most areas but locally heavier amounts up to 5.00 in.

Harvesting slowed by rain and soft fields. Fieldwork: 2.0 days suitable. Corn silo filling 8% completed, 1979 10%, normal 35%. Low ground

and heavier soils too wet for choppers. Corn for grain 80% mature, 1979 50%, normal 75%. High moisture ear corn ready for harvest, some early maturing varieties ripe for grain. Soybeans 67% turning yellow, 1979 60%, normal 65%. Soybeans 30% shedding leaves, 1979 10%, normal 30%. Some oats still not combined but likely will be abandoned. Third crop hay 40% harvested, 1979 50%, normal 30%. Poor drying weather for baling hay, most going as haylage or green chop. Pastures very good but soft. Fall plowing and seeding of winter wheat slowed by wet soils. Tobacco harvest nearing end. Weather conditions slowing harvesting, color, and maturity of apples. Cranberry harvest underway. Harvest of potatoes and vegetables hampered by wet fields. Soil moisture mostly surplus.

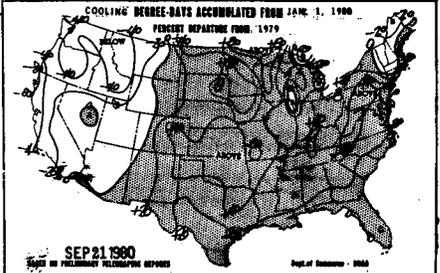
**WYOMING:** Temperatures generally above normal. Extremes: 90 and 30°. Precipitation quite varied.

Topsoil moisture short. Average of 6.0 days suitable for fieldwork. Winter wheat 91% planted; 66% emerged. Most spring planted small grains harvested. Sugarbeet harvest expected to start end of September. Acreage harvested: Potatoes 50%; corn silage 53%. Corn for grain 52% dented; 24% mature; 6% harvested. Dry beans 81% wind-rowed, 44% combined. Hay supplies for wintering livestock mostly adequate. Good quality hay for sale in most areas. Livestock contracted: cattle 33%; calves 34%; sheep 42%; lambs 43%.

COOLING DEGREE DAYS (BASE 65°) FOR WEEK ENDING SEP. 21, 1980.

\* BASED ON 1941-70 NORMALS. ACCUMULATED FROM JANUARY 1, 1980.

Table with columns for STATES AND STATIONS, WEEKLY DEPARTURE\*, SEASONAL ACCUMULATION +, and DEPARTURE FROM 1979. Rows list various cities across the United States with their respective cooling degree day values.



**CROP PROGRESS**

FOR WEEK ENDING SEPT 21, 1980

	CORN % MATURE		
	1980	1979	AVG.
COLO	31	15	45
GA	99	NA	NA
ILL	95	77	89
IND	75	50	60
IOWA	70	61	82
KANS	70	55	65
KY	82	66	52
MICH	30	17	35
MINN	71	10	60
MO	84	59	63
NEBR	70	30	65
N C	95	94	NA
OHIO	65	55	65
PA	25	12	20
S DAK	60	74	81
VA	90	NA	NA
WIS	80	50	75
17 STATES	73	NA	NA
EXCL. STATES WITH NA	72	50	70

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

	WINTER WHEAT % PLANTED		
	1980	1979	AVG.
CALF	0	0	NA
COLO	72	76	83
IDA	20	27	29
ILL	4	4	4
IND	5	5	5
KANS	30	30	25
MO	7	1	NA
MONT	50	60	60
NEBR	70	75	60
OHIO	5	10	10
OKLA	15	20	20
OREG	12	20	NA
S DAK	86	81	77
TEX	30	35	33
WASH	41	41	NA
15 STATES	32	34	NA
EXCL. STATES WITH NA	34	37	34

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

	SORGHUM % MATURE		
	1980	1979	AVG.
COLO	25	39	24
KANS	30	30	35
MO	57	53	59
NEBR	80	15	40
OKLA	50	55	60
S DAK	35	NA	NA
TEX	78	73	NA
7 STATES	57	NA	NA
EXCL. STATES WITH NA	58	47	

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

	CORN % HARVESTED		
	1980	1979	AVG.
COLO	0	0	2
GA	83	73	60
ILL	9	1	5
IND	4	2	3
IOWA	6	1	4
KANS	25	10	15
KY	126	6	11
MICH	1	0	1
MINN	1	0	3
MO	32	12	20
NEBR	8	0	0
N C	65	49	48
OHIO	5	1	3
PA	3	1	1
S DAK	1	0	0
VA	40	30	32
WIS	0	0	1
17 STATES	11	5	7

	COTTON % HARVESTED		
	1980	1979	AVG.
ALA	10	1	5
ARIZ	2	7	NA
ARK	9	1	4
CALF	0	0	NA
GA	24	6	6
LA	11	0	2
MISS	6	NA	5
MO	27	0	0
N MEX	0	0	0
N C	17	5	2
OKLA	5	0	0
S C	13	4	6
TENN	15	0	6
TEX	20	11	15
14 STATES	14	NA	NA
EXCL. STATES WITH NA	17	8	12

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

	SORGHUM % HARVESTED		
	1980	1979	AVG.
COLO	0	0	0
KANS	15	4	10
MO	28	11	16
NEBR	10	1	0
OKLA	10	5	10
S DAK	6	0	4
TEX	74	67	66
7 STATES	37	28	30

	SPRING WHEAT % HARVESTED		
	1980	1979	AVG.
IDA	88	92	89
MINN	99	89	96
MONT	90	90	90
N D	86	87	92
S DAK	100	100	100
5 STATES	92	90	94

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

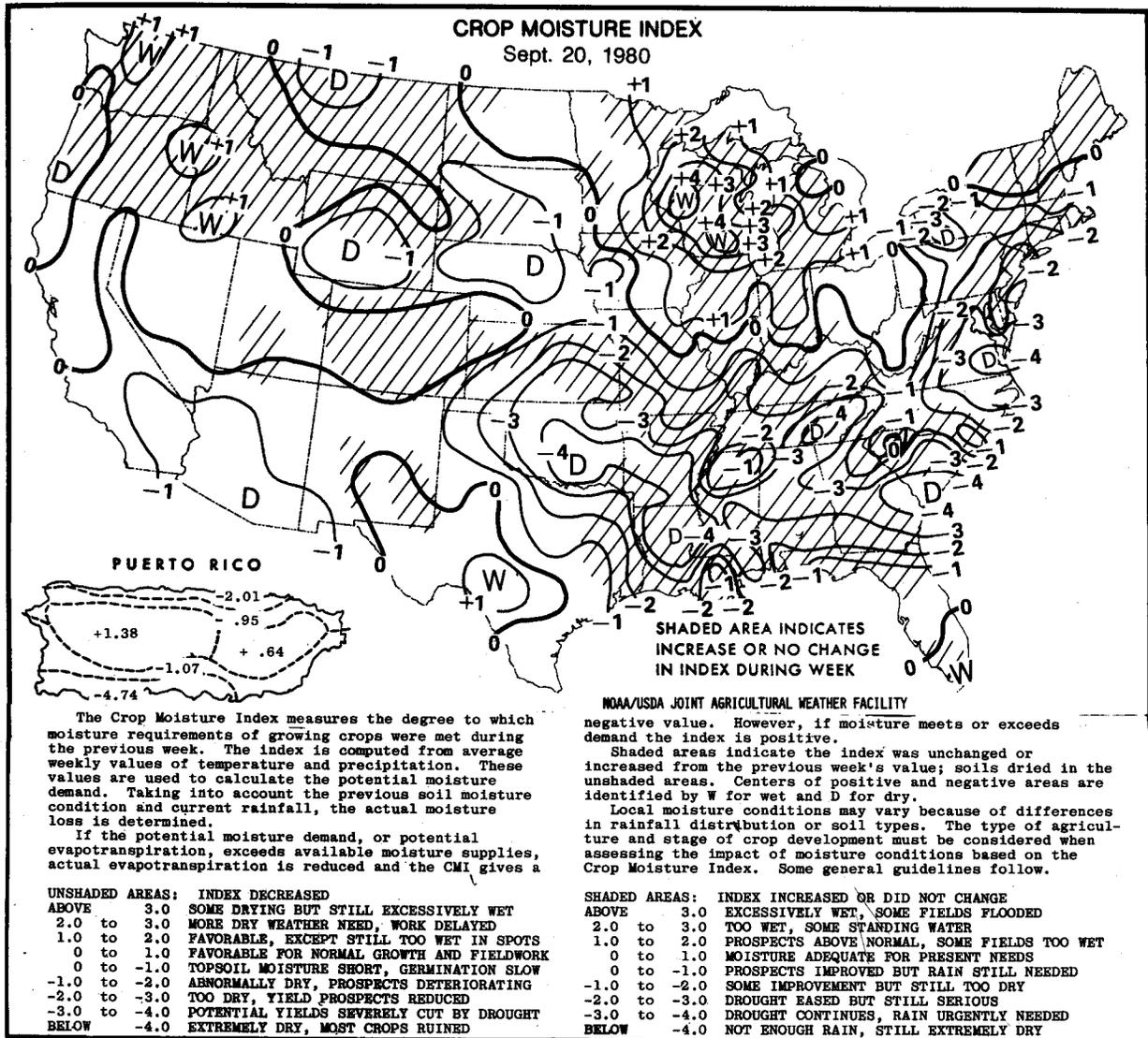
	SOYBEAN % DROPPING LEAVES		
	1980	1979	AVG.
ALA	34	22	NA
ARK	38	NA	NA
GA	20	NA	NA
ILL	60	55	67
IND	60	45	60
IOWA	66	50	68
KANS	40	35	NA
KY	43	25	25
LA	35	19	NA
MICH	30	30	51
MINN	82	41	80
MISS	53	39	41
MO	20	18	20
NEBR	55	25	55
N C	8	NA	NA
OHIO	65	55	65
S C	19	5	10
TENN	27	20	20
18 STATES	48	NA	NA
EXCL. STATES WITH NA	54	40	54

	COTTON % BOLLS OPENING		
	1980	1979	AVG.
ALA	70	29	38
ARIZ	85	NA	NA
ARK	85	31	41
CALF	30	40	NA
GA	87	63	NA
LA	72	34	45
MISS	94	66	69
MO	85	44	52
N MEX	17	15	25
N C	90	34	NA
OKLA	50	15	25
S C	92	77	75
TENN	80	17	27
TEX	46	30	NA
14 STATES	55	NA	NA
EXCL. STATES WITH NA	76	39	46

	RICE % HARVESTED		
	1980	1979	AVG.
ARK	33	16	24
CALF	2	5	NA
LA	85	88	87
MISS	50	34	31
TEX	100	100	100
5 STATES	51	44	NA
EXCL. STATES WITH NA	61	53	56

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

NA - NOT AVAILABLE



EXCESSIVE RAINFALL IN THE NORTHERN PART OF THE CORN BELT HAS GENERATED HIGH CROP MOISTURE INDEX NUMBERS. THE EXCESSIVE MOISTURE IS CREATING SOME PROBLEMS IN THE CONDITIONS OF CORN AND SOYBEANS. SOMEWHAT LOWER TEMPERATURES IN MUCH OF THE SOUTH AND EAST HAS LOWERED MOISTURE DEMAND, SO THAT THE INDEX VALUES HAVE IMPROVED IN MUCH OF THE AREA. CONTINUED HOT WEATHER AND LITTLE RAIN IN THE SOUTH CENTRAL PLAINS HAVE KEPT THE AREA EXTREMELY DRY.

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