

# WEEKLY WEATHER AND CROP BULLETIN

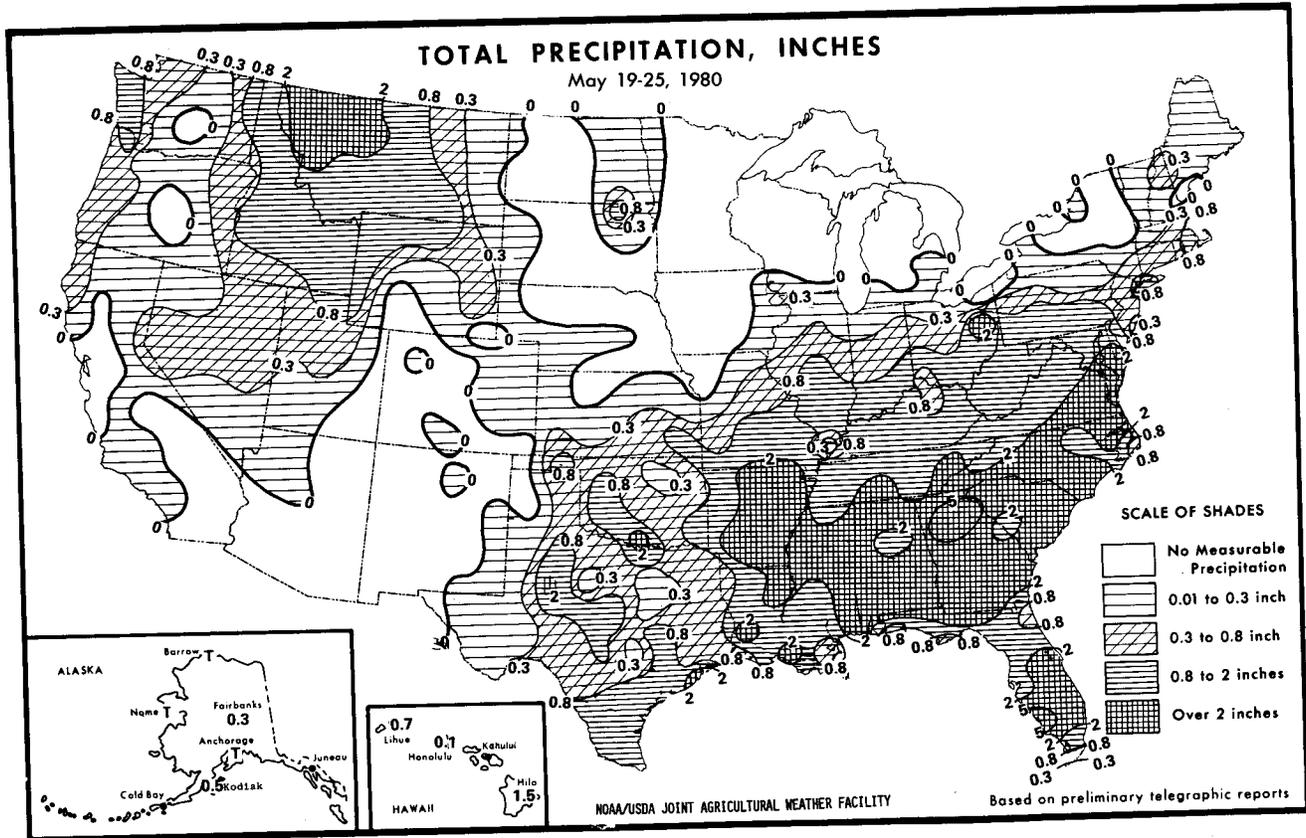
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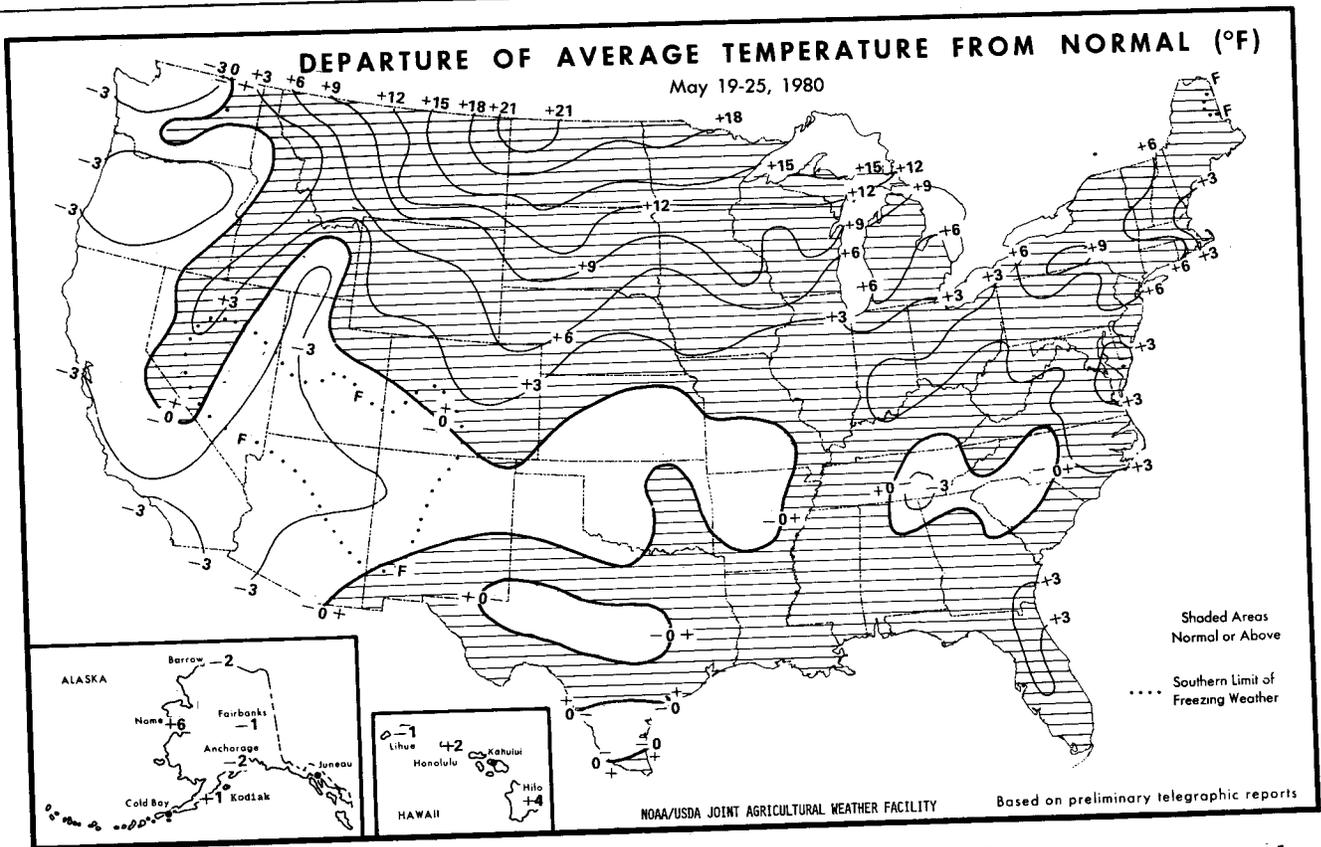
## National Weather Summary

May 19 - 25

**HIGHLIGHTS:** Volcanic ash from Mt. St. Helens covered the surface in significant amounts as far east as eastern Montana. The debris rose to high altitudes and moved rapidly across the United States. Thunderstorms, accompanied by heavy downpours, occurred from Texas to Kansas and from the lower Mississippi Valley through the Ohio Valley to the mid-Atlantic States and southward to the Gulf of Mexico. Unseasonably hot weather in the northern Plains brought some temperatures over 100°. A vigorous Pacific cold front pushed slowly to the western Plains and brought cold weather, heavy rain, snow, and high winds to much of the West. The severe drought in the northern Plains was worsened by the hot weather and continues.

**MONDAY...** A storm center was located in the Ohio Valley, and cooler air advanced southeastward along a line from eastern New England to the lower Mississippi Valley. Severe weather developed late in the day from southern Louisiana to Alabama and the Florida Panhandle. Flooding was reported throughout these areas, and several tornadoes touched down in southeastern Louisiana and southern Mississippi--some injuries and much property damage resulted. Other showers and thunderstorms spread across northern Georgia, into South Carolina and along the Appalachians, and to the lower Great Lakes Region. Elsewhere, scattered showers stretched from the Texas Panhandle, across western sections of the central Plains, and into the central Rockies. A new frontal system approaching the Pacific Northwest spread rain into Washington State. Mt. St. Helens continued to belch a plume of volcanic ash and dust, but the amount of material had lessened. The plume had carried eastward in the upper atmosphere into the western Plains by early evening.

**TUESDAY...** The cold front stretched across the southern Appalachians and through the Florida Pan-



handle. Tornadoes touched down in Alabama in the early morning and later, as the front continued eastward, in Georgia and the Carolinas. Weather cleared behind the front bringing welcome relief from the torrential rains. However, late in the day, warm, moist air from the Gulf of Mexico began flowing across Texas and brought heavy thunderstorms to the central and southern Plains. Meanwhile, volcanic ash continued its journey in the upper atmosphere and by the end of the day was crossing the mid-Atlantic Coast. The flow of ash at the source continued to diminish.

**WEDNESDAY...** Southerly winds and abundant sunshine warmed the northern Plains. In spite of the veil of volcanic ash, record temperatures--in the nineties--were marked. Williston, northwestern North Dakota, rose to 102°, and Havre, northern Montana, chalked up 98°. The southerly flow over the area bore no moisture, and the severe drought in the area worsened as the heat sucked precious moisture from the land. Meantime, heavy rain was returning to the South as thunderstorms rumbled over parts of Texas and the lower Mississippi Valley. In the Pacific Northwest, a frontal system was triggering showers in the northern sections of the Plateau and the Rockies.

**THURSDAY...** A warm front stretched across the Gulf Coast in the Southeast. Showers and thunderstorms reached from the southern half of the Mississippi River Valley, across the Ohio and Tennessee Valleys, and from the eastern Gulf Coast to the southern Atlantic States. High wind accompanied some of the storms, but no tornadoes were reported. The unseasonable warm air continued to dominate the northern Plains. Upper nineties and 100-plus temperatures were the rule again from eastern Montana into North Dakota. Williston, North Dakota, was still the hot spot

with a surprising 106°. Gusty winds and cool temperatures accompanied a frontal system pushing into the northern Rockies.

**FRIDAY...** The warm front stretched from the Atlantic through North Carolina to Tennessee and was moving northward. Showers and thunderstorms were scattered from the Southeast to the mid-Atlantic Coast into the Ohio Valley. Some locally heavy rains caused flooding in parts of these areas. Hot weather continued in the northern Plains ahead of a cold front that stretched from the northern Rockies to southern California. Showers and thunderstorms were occasionally heavy along and behind the front. Comparatively cold weather moved in behind the front, and snow was reported at some higher elevations.

**SATURDAY...** The Pacific cold front stretched from central Montana to Arizona. Showers of rain or snow occurred along or in the cold air behind the front. Some heavy thunderstorms were reported in Montana and Wyoming. The warm air in the northern Plains pushed a little eastward and moderated somewhat. In the East, showers and thunderstorms continued from Florida to the mid-Atlantic Coast and into the Ohio Valley. A number of places had heavy rain and some minor urban flooding.

**SUNDAY...** A vigorous Pacific cold front pushed through the Rockies and into the western Plains. Although heavy showers and even tornadoes were reported in Montana and Wyoming, little or no rain fell in northeastern Montana, the Dakotas, or northern Minnesota--and the drought continued. Cold air covered the West, while warm weather persisted in most of the Plains. Another major eruption of Mt. St. Helens poured ash into western Washington and Oregon. Further east, thunderstorms broke out from Arkansas to Florida and along the coast to the mid-Atlantic States.



## National Agricultural Summary

May 19 - 25

**HIGHLIGHTS:** Rains delayed planting progress in the south Atlantic and south central States, while dry weather continued to stress crops in the northern Plains. Most areas of the Nation had 3 to 6 days suitable for fieldwork, except the south Atlantic and south central States where only up to 3 days were available. Temperatures generally averaged above normal in all parts of the Nation except the Pacific States and parts of the Southwest and southern Plains. Winter wheat rated fair to mostly good except in the northern Plains where the lack of moisture prompted poor conditions. Winter wheat combining was limited to southern areas. Corn planting advanced to 94% complete, surpassing last year's 83% and the 85% average. Soybean planting reached 49% complete, ahead of last year's 42% but equal to the average. Wet weather slowed planting progress in the south central and southeastern States, and nearly all States in these areas fell behind the average. Cotton planting was 65% complete. Planting was virtually complete in California and South Carolina. Grain sorghum planting reached 46% complete, 4 points ahead of a year ago but 3 points behind the average. Sorghum planting lagged the average by 20 points in Colorado, 5 points in Kansas, 15 points in Oklahoma, and 4 points in Texas. Rice seeding was 92% finished, 3 points ahead of last year. Spring wheat seeding was completed in Montana and South Dakota and reached 99% in Minnesota and 90% in North Dakota. Oats seeding was virtually done. Barley seeding was complete in Idaho, Montana, and South Dakota. Small grain seeding this year was generally well ahead of last year and the normal. Warm, dry weather provided good planting conditions, however, many areas now need rain. Emergence in the northern Plains is spotty. Pastures rated mostly good to excellent except in the northern Plains where conditions were poor; supplemental feeding was necessary for most of the roughage requirements. Vegetable planting advanced in northern areas. Fuel supplies held steady from the previous week. LP gas stood at 1% tight, 94% adequate, and 5% surplus. Diesel fuel rated 3% tight, 92% adequate, and 5% surplus. Gasoline was 3% tight, 92% adequate, and 5% surplus.

**CORN:** Corn planting in the 17 major producing States advanced to 94% complete, compared with 83% a year ago and the average of 85%. The east north central States reported 94% planted, ahead of last year's 83% and the 80% average. Planting in the west north central States reached 95% finished, compared with 82% in 1979 and the 88% average. The southeastern States advanced to 97%, equal to last year's progress and 1 point ahead of the average. Planting in Iowa, Georgia, and North Carolina was complete. Good stands are reported in most areas.

**SOYBEANS:** Soybean seeding in the 17 major producing States was 49% complete, ahead of last year's 42% and equal to the average. Wet weather delayed progress in the south central and southeastern States, and nearly all States in these areas fell behind the average. Growers in the east north central States advanced planting to 63%, ahead of the 56% last year and the average. Planting in the west north central States reached 64%, compared with only 37% a year ago and the 56% average. In Iowa, where 73% has been planted, farmers planted 44% of the crop during the week,

and in Nebraska where 50% has been planted, farmers planted 30% of the crop during the week.

**COTTON:** Cotton planting was 65% complete in the 14 major producing States. Planting was done in California and South Carolina. Some replanting was needed because of drowning from the heavy rains.

**SMALL GRAINS:** Winter wheat rated fair to mostly good except in the northern Plains where conditions are poor from lack of moisture. Combining was limited to southern areas.

Spring wheat seeding wound down to completion in Montana and South Dakota and reached 99% in Minnesota and 90% in North Dakota. Oats seeding was virtually complete. Barley seeding was done in Idaho, Montana, and South Dakota. Emergence is spotty in the northern Plains where rain is needed badly.

**OTHER CROPS:** Grain sorghum planting progress advanced to 46% in the seven major producing States, 4 points ahead of last year but 3 points behind the average. Progress lagged the average by 20 points in Colorado, 5 points in Kansas, 15 points in Oklahoma, and 4 points in Texas. In Texas, 75% of the crop was in the ground, and 15% was headed. Planting should pick up in the Plains, Cross-Timbers, and Blacklands as soils dry. Stands are in generally good condition.

Rice seeding reached 92% in the five major producing States, 3 points ahead of a year ago. Excluding California, seeding advanced to 93%, compared with 88% last year and the 93% average. Seeding was complete in Texas.

Peanut planting ranged from 21% in Texas to 99% in North Carolina. Except for Texas, where rains delayed planting, most States moved ahead of the average progress.

Tobacco transplanting remained generally on schedule as plant supplies continued adequate. Problems with blue mold were reported in parts of Georgia.

Hay harvesting moved actively in many areas. Rain delayed cutting in some parts of the Nation.

**FRUITS AND NUTS:** Deciduous fruit trees reached full bloom in northern production areas. Orchards rated generally good. Peach harvest advanced across the South and reached into South Carolina. Growers continued spraying and thinning fruit and nut trees.

Florida citrus groves rated excellent with moisture plentiful in most areas. The Valencia harvest continued active. Arizona growers harvested grapefruit and Valencia oranges as groves remain in good condition. California growers harvested Valencias and lemons while the Navel orange harvest was virtually finished. Almond and walnut development was reported very good in California.

**VEGETABLES:** Growers in northern production areas continued to plant a wide variety of vegetables and were harvesting early vegetables. Florida vegetable shipments held steady from the previous week. Supplies of watermelons, sweet corn, okra, parsely, and tomatoes increased while supplies of snap beans, cabbage, carrots, cucumbers, escarole, lettuce, peppers, potatoes, and squash decreased seasonally.

**PASTURE AND LIVESTOCK:** Pastures rated mostly good to excellent except in the northern Plains where conditions were poor and supplemental feeding was necessary for most of the roughage requirements. Livestock continued to be moved to summer pastures.

Weather Data for the Week Ending May 25, 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 March 3	Pct. normal since March 3	Average maximum	Average minimum	Temperature °F		Precipitation		
														90 and above	32 and below	.01 inch or more	.50 inch or more	
AL BIRMINGHAM	80	63	85	57	72	-1	1.4	0.6	0.5	28.6	213	86	58	0	0	4	1	
AL MOBILE	86	67	93	64	76	0	3.3	2.3	2.0	41.5	259	74	61	1	0	4	2	
AL MONTGOMERY	82	67	86	63	75	1	3.7	2.9	2.0	22.0	169	95	60	0	0	6	3	
AK ANCHORAGE	52	40	58	35	46	-2	T	-0.1	T	0.6	50	80	57	0	0	4	0	
AK BARROW	24	17	32	12	21	-2	T	0.0	T	0.0	0	85	76	0	7	0	0	
AK FAIRBANKS	62	40	71	35	50	-1	0.3	0.1	0.3	0.5	26	62	38	0	0	1	0	
AK KODIAK	51	40	59	37	45	1	0.5	-0.5	0.3	10.5	95	89	72	0	0	3	0	
AK NOME	53	36	64	28	44	6	T	-0.1	T	1.8	95	71	55	0	1	0	0	
AZ FLAGSTAFF	64	31	75	18	48	-4	T	-0.1	T	7.2	200	71	21	0	2	0	0	
AZ PHOENIX	91	65	104	54	78	0	0.0	0.0	0.0	1.2	100	31	12	4	0	0	0	
AZ TUCSON	91	57	101	43	74	-1	0.0	0.0	0.0	1.3	130	33	7	5	0	0	0	
AZ WINSLOW	76	42	89	30	59	-6	0.0	-0.1	0.0	1.2	100	--	--	1	1	0	0	
AZ YUMA	90	62	102	52	76	-4	0.0	0.0	0.0	0.8	160	47	--	3	0	0	0	
AR FORT SMITH	79	61	92	54	70	-2	0.7	-0.5	0.5	9.7	76	96	58	1	1	0	2	
AR LITTLE ROCK	78	62	89	59	70	-2	3.3	2.1	2.3	18.7	131	97	60	0	0	3	2	
CA BAKERSFIELD	81	57	98	46	69	-3	T	0.0	T	2.2	129	--	32	2	0	1	0	
CA EUREKA	57	48	60	43	52	-1	0.7	0.3	0.4	11.9	127	95	66	0	0	3	0	
CA FRESNO	82	54	100	42	68	-1	T	0.0	T	2.3	72	61	22	2	0	0	0	
CA LOS ANGELES	65	54	68	49	60	-6	T	0.0	T	2.4	69	80	59	0	0	1	0	
CA RED BLUFF	82	54	98	42	68	-1	T	-0.2	T	4.2	84	64	19	3	0	0	0	
CA SAN DIEGO	67	61	70	57	64	0	T	0.0	T	4.3	172	76	62	0	0	0	0	
CA SAN FRANCISCO	65	49	75	46	57	-2	T	-0.1	T	3.3	75	80	50	0	0	0	0	
CA STOCKTON	82	51	99	45	66	0	0.0	-0.1	0.0	2.1	58	78	26	2	0	0	0	
CO DENVER	78	50	83	43	64	5	T	-0.6	T	6.5	123	63	20	0	0	0	0	
CO GRAND JUNCTION	79	49	87	38	64	-1	T	-0.1	T	3.6	200	50	18	0	0	0	0	
CO PUEBLO	81	49	86	42	65	2	0.0	-0.4	0.0	6.4	194	73	23	0	0	0	0	
CT BRIDGEPORT	75	59	82	57	67	6	0.7	-0.1	0.7	16.7	174	87	52	0	0	2	1	
CT HARTFORD	79	53	92	50	66	5	0.4	-0.4	0.4	13.0	129	84	41	1	0	1	0	
DC WASHINGTON	79	64	84	60	72	3	1.2	0.3	0.5	10.7	119	91	64	0	0	5	1	
FL APALACHICOLA	84	71	86	68	77	1	0.3	-0.4	0.2	12.2	117	98	69	0	0	2	0	
FL DAYTONA BEACH	88	68	94	67	78	2	1.8	1.1	1.2	8.1	108	96	55	2	0	4	1	
FL FORT MYERS	90	71	93	69	80	1	5.9	4.8	5.3	8.3	106	100	61	4	0	3	2	
FL JACKSONVILLE	88	70	92	68	79	4	0.5	-0.3	0.2	13.7	154	97	55	4	0	5	0	
FL KEY WEST	88	80	90	78	84	3	T	-0.6	T	4.0	70	80	59	1	0	1	0	
FL MIAMI	87	74	92	68	81	2	1.0	-0.5	0.4	9.9	96	93	62	1	0	6	0	
FL ORLANDO	89	68	93	65	79	1	2.1	1.3	1.3	11.4	139	--	51	4	0	4	1	
FL TALLAHASSEE	86	68	89	62	77	1	4.3	3.3	2.1	22.6	179	89	55	0	0	5	2	
FL TAMPA	87	71	91	68	79	1	1.6	1.0	0.6	9.9	130	93	60	2	0	4	1	
FL WEST PALM BEACH	88	71	91	66	79	1	4.7	3.4	2.3	9.7	92	96	57	3	0	6	3	
GA ATLANTA	79	66	84	62	73	2	7.2	6.4	3.0	21.6	166	92	62	0	0	4	4	
GA AUGUSTA	84	62	87	58	73	0	1.5	0.7	0.8	14.8	140	95	52	0	0	5	1	
GA MACON	84	67	89	61	75	0	2.1	1.3	1.1	17.1	150	96	56	0	0	6	2	
GA SAVANNAH	85	69	88	66	77	2	2.2	1.2	1.6	15.8	156	91	53	0	0	4	1	
HI HILO	--	--	--	--	78	4	1.5	-0.6	--	61.5	181	--	--	0	0	--	--	
HI HONOLULU	85	73	86	72	79	2	0.1	-0.1	0.1	4.0	75	85	57	0	0	2	0	
HI KAHULUI	--	--	--	--	79	3	0.1	0.0	--	--	--	--	--	--	--	--	--	
HI LIHUE	--	--	--	--	75	-1	0.7	0.2	0.0	13.3	137	--	--	0	0	--	--	
ID BOISE	69	49	90	40	59	0	1.7	1.4	0.6	6.7	209	73	34	1	0	5	2	
ID LEWISTON	68	49	85	42	58	-1	0.4	0.0	0.4	3.8	115	79	47	0	0	3	0	
ID POCAHELLO	65	42	82	33	54	-2	0.8	0.5	0.4	4.7	157	85	46	0	0	3	0	
IL CAIRO	77	64	87	60	71	0	0.3	-0.9	0.2	9.1	69	--	--	0	0	3	0	
IL CHICAGO	77	49	82	43	63	3	0.1	-0.7	0.1	6.1	66	82	41	0	0	1	0	
IL MOLINE	78	54	85	48	66	2	0.1	-0.8	T	6.4	69	72	48	0	0	2	0	
IL PEORIA	75	55	83	49	65	1	0.5	-0.3	0.4	7.4	73	96	56	0	0	2	0	
IL ROCKFORD	79	53	87	44	66	5	0.1	-0.8	0.1	4.8	51	87	42	0	0	1	0	
IL SPRINGFIELD	77	55	85	52	66	0	1.1	0.3	1.1	8.7	89	95	57	0	0	4	1	
IN EVANSVILLE	76	59	81	55	68	0	1.3	0.3	0.9	10.6	88	96	64	0	0	1	1	
IN FORT WAYNE	73	54	81	49	64	2	0.3	-0.6	0.3	9.7	105	87	53	0	0	2	0	
IN INDIANAPOLIS	77	58	85	52	68	3	0.8	-0.1	0.6	8.7	82	91	51	0	0	3	1	
IN SOUTH BEND	78	55	85	49	66	6	0.1	-0.6	0.1	8.7	94	--	58	0	0	1	0	
IA BURLINGTON	75	56	85	53	66	2	0.2	-0.6	0.2	7.8	85	--	--	0	0	3	0	
IA DES MOINES	78	56	86	52	67	4	T	-1.0	T	2.9	35	79	40	0	0	0	0	
IA DUBUQUE	80	55	86	49	68	8	0.4	-0.7	0.4	5.1	48	85	34	0	0	1	0	
IA SIOUX CITY	79	52	89	45	66	3	0.0	-0.9	0.0	3.7	58	92	42	0	0	0	0	
KS CONCORDIA	79	50	89	42	65	0	0.1	-0.9	0.1	6.2	89	95	45	0	0	1	0	
KS DODGE CITY	78	52	86	45	65	-1	0.1	-0.7	0.1	6.5	120	89	41	0	0	1	0	
KS GOODLAND	74	47	79	40	61	0	0.1	-0.5	0.1	8.2	191	80	40	0	0	1	0	
KS TOPEKA	79	51	90	45	65	-2	T	-0.9	T	5.8	67	91	50	1	0	1	0	
KS WICHITA	77	53	88	46	65	-3	0.6	-0.2	0.6	7.4	97	91	51	0	0	1	1	
KY LEXINGTON	76	59	79	52	67	1	0.5	-0.5	0.2	10.9	93	93	57	0	0	2	0	
KY LOUISVILLE	79	60	84	56	70	3	1.7	0.7	1.4	11.5	93	96	53	0	0	4	1	

Based on preliminary reports and 1941-70 normals

Weather Data for the Week Ending May 25, 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 March 3	Pct. normal since March 3	Average maximum	Average minimum	Temperature °F		Precipitation		
														90 and above	32 and below	.01 inch or more	.50 inch or more	
LA BATON ROUGE	84	69	90	66	77	1	1.5	0.6	1.3	30.3	223	83	50	1	0	2	1	
LA LAKE CHARLES	84	69	88	64	76	0	0.7	-0.4	0.7	30.9	262	99	66	0	0	1	1	
LA NEW ORLEANS	86	69	92	66	78	1	0.4	-0.6	0.3	35.3	278	93	60	0	0	3	0	
LA SHREVEPORT	85	66	91	61	76	1	0.4	-0.7	0.2	13.2	99	93	57	1	0	3	0	
ME CARIBOU	68	45	82	36	56	4	T	-0.7	T	7.9	114	79	31	0	0	1	0	
ME PORTLAND	69	47	88	42	58	3	0.0	-0.7	0.0	12.2	128	86	44	0	0	0	0	
MD BALTIMORE	79	60	86	54	70	4	1.4	0.6	0.5	12.6	135	87	62	0	0	4	1	
MA BOSTON	71	52	89	46	62	1	0.9	0.1	0.7	12.0	120	84	49	0	0	2	1	
MA CHATHAM	63	50	68	48	56	--	1.5	0.7	0.8	11.2	112	88	66	0	0	5	2	
MI ALPENA	76	44	89	38	60	8	0.0	-0.6	0.0	7.0	109	--	--	0	0	0	0	
MI DETROIT	76	53	82	48	64	4	T	-0.8	T	10.2	123	90	49	0	0	1	0	
MI FLINT	76	50	81	46	63	5	T	-0.7	T	7.6	103	90	40	0	0	2	0	
MI GRAND RAPIDS	80	51	86	46	65	6	0.0	-0.7	0.0	7.8	94	97	38	0	0	0	0	
MI HOUGHTON LAKE	80	48	85	39	64	9	T	-0.6	T	5.9	94	76	33	0	0	0	0	
MI LANSING	78	49	85	46	64	5	0.0	-0.8	0.0	5.9	75	97	39	0	0	0	0	
MI MARQUETTE	79	49	89	39	64	12	0.0	-0.7	0.0	5.2	79	72	26	0	0	0	0	
MI MUSKEGON	77	48	84	43	63	5	T	-0.6	T	6.5	84	91	37	0	0	0	0	
MI SAULT STE. MARIE	82	44	88	34	63	12	0.0	-0.7	0.0	4.9	78	78	25	0	0	0	0	
MN DULUTH	77	53	85	44	65	13	0.0	-0.8	0.0	1.9	28	68	28	0	0	0	0	
MN INT'L FALLS	86	53	91	44	70	17	0.0	-0.7	0.0	2.1	44	73	21	1	0	0	0	
MN MINNEAPOLIS	83	53	87	42	68	9	0.0	-0.8	0.0	2.5	40	76	28	0	0	0	0	
MN ROCHESTER	84	53	89	47	68	10	0.0	-0.8	0.0	2.6	39	81	28	0	0	0	0	
MN SAINT CLOUD	85	48	88	42	67	9	0.0	-0.9	0.0	2.3	36	90	--	0	0	0	0	
MS JACKSON	83	64	91	60	74	-1	1.8	0.8	0.8	34.2	248	96	59	1	1	4	1	
MS MERIDAN	84	64	89	60	74	0	3.0	2.2	1.4	33.8	240	97	60	0	0	6	3	
MO COLUMBIA	74	57	82	52	66	-1	0.4	-0.7	0.3	6.9	67	92	56	0	0	3	0	
MO KANSAS CITY	78	55	88	50	66	0	T	-1.0	T	6.4	70	96	49	0	0	0	0	
MO SAINT LOUIS	76	58	82	54	67	-1	0.8	-0.1	0.7	7.7	78	95	54	0	0	2	1	
MO SPRINGFIELD	74	54	87	44	64	-3	0.6	-0.5	0.5	9.3	83	97	61	0	0	2	0	
MT BILLINGS	83	54	94	46	68	12	1.6	1.1	0.9	5.6	137	59	19	2	0	2	2	
MT GLASGOW	90	56	99	50	73	17	0.3	0.0	0.1	1.0	50	54	20	3	0	3	0	
MT GREAT FALLS	74	51	93	38	63	8	4.3	3.7	2.6	6.1	156	67	38	1	0	4	3	
MT HAVRE	84	54	98	50	69	12	1.4	1.0	0.8	3.3	127	64	25	2	0	3	1	
MT HELENA	71	48	89	40	60	6	1.9	1.4	1.4	5.6	200	67	37	0	0	4	1	
MT KALISPELL	68	48	85	36	58	6	2.8	2.3	1.2	5.8	181	79	57	0	0	5	2	
MT MILES CITY	88	59	99	50	74	15	0.1	-0.4	0.1	1.1	32	56	14	3	0	2	0	
MT MISSOULA	66	45	84	34	55	1	3.5	3.1	1.8	9.0	310	82	52	0	0	3	3	
NE GRAND ISLAND	79	50	89	42	65	2	0.2	-0.7	0.2	5.4	82	92	37	0	0	1	0	
NE LINCOLN	80	50	90	40	65	1	T	-0.9	T	5.0	76	92	43	1	0	0	0	
NE NORFOLK	81	51	90	43	66	4	T	-0.9	T	3.3	52	88	35	1	0	0	0	
NE NORTH PLATTE	78	49	81	38	64	3	0.2	-0.6	0.2	5.1	93	77	34	0	0	1	0	
NE OMAHA	79	56	90	51	68	5	0.0	-1.0	0.0	3.7	49	52	46	1	0	0	0	
NE VALENTINE	81	51	86	39	66	7	0.0	-0.7	0.0	2.6	57	73	21	0	0	0	0	
NV ELY	64	36	80	26	50	-2	0.5	0.3	0.3	4.7	188	72	30	0	3	2	0	
NV LAS VEGAS	83	59	96	48	71	-5	T	0.0	T	1.2	150	36	13	3	0	1	0	
NV RENO	70	39	87	33	55	-2	0.5	0.4	0.1	2.3	164	75	22	0	0	2	0	
NV WINNEMUCCA	74	42	92	38	58	2	T	-0.2	T	2.4	126	56	20	2	0	1	0	
NH CONCORD	77	43	92	37	60	3	T	-0.7	T	8.0	103	--	31	1	0	0	0	
NJ ATLANTIC CITY	76	56	86	51	66	3	0.3	-0.5	0.2	13.1	125	94	56	0	0	2	0	
NJ TRENTON	79	61	88	55	70	6	0.5	-0.3	0.4	13.4	140	--	--	0	0	3	0	
NM ALBUQUERQUE	84	47	89	33	66	-1	0.0	-0.1	0.0	1.8	150	51	8	0	0	0	0	
NM ROSWELL	86	57	89	55	72	2	0.0	-0.2	0.0	1.8	112	--	--	0	0	0	0	
NY ALBANY	79	54	90	50	66	6	T	-0.8	T	8.6	110	83	40	1	0	0	0	
NY BINGHAMTON	78	54	87	49	66	9	T	-0.9	T	12.7	143	80	38	0	0	1	0	
NY BUFFALO	75	55	88	50	65	7	T	-0.6	T	8.0	96	89	40	0	0	1	0	
NY NEW YORK	79	62	87	55	70	6	0.9	0.1	0.9	17.4	172	76	44	0	0	1	1	
NY ROCHESTER	77	54	89	48	66	7	T	-0.6	T	7.1	97	85	37	0	0	0	0	
NY SYRACUSE	78	53	90	45	65	6	T	-0.7	T	8.8	105	93	35	1	0	0	0	
NC ASHEVILLE	74	57	77	51	66	0	1.9	1.1	0.9	17.3	162	97	63	0	0	5	1	
NC CHARLOTTE	78	61	81	56	70	-1	2.3	1.6	1.3	13.9	139	97	62	0	0	6	2	
NC GREENSBORO	77	60	82	57	69	0	2.3	1.6	1.2	11.0	124	94	62	0	0	5	1	
NC HATTERAS	79	67	82	60	73	4	0.5	-0.3	0.2	11.8	128	92	68	0	0	4	0	
NC RALEIGH	82	65	87	62	74	4	0.8	0.0	0.6	8.8	97	99	64	0	0	4	1	
NC WILMINGTON	84	66	88	63	75	3	2.2	1.2	0.9	10.9	110	92	54	0	0	4	2	
ND BISMARCK	88	55	96	40	71	15	T	-0.5	T	0.7	18	57	16	2	0	0	0	
ND FARGO	89	58	93	48	73	16	T	-0.5	T	0.6	13	57	21	2	0	1	0	
ND WILLISTON	95	63	106	50	79	22	0.1	-0.3	0.1	0.6	20	47	16	6	0	1	0	
OH AKRON-CANTON	76	55	79	50	65	4	2.6	1.7	2.1	13.1	136	85	37	0	0	2	1	
OH CINCINNATI	78	59	84	52	69	3	0.8	0.0	0.4	12.2	120	92	60	0	0	3	0	
OH CLEVELAND	72	51	79	44	62	1	T	-0.8	T	8.0	87	91	46	0	0	0	0	
OH COLUMBUS	75	58	80	52	66	3	0.8	-0.1	0.5	9.7	96	90	57	0	0	4	1	
OH DAYTON	76	58	80	53	67	3	1.4	0.6	1.0	12.8	136	91	54	0	0	3	1	
OH TOLEDO	75	51	81	46	63	2	T	-0.8	T	9.0	113	98	50	0	0	2	0	
OH YOUNGSTOWN	75	51	80	45	63	3	0.5	-0.3	0.5	9.7	99	92	52	0	0	1	0	

Based on preliminary reports and 1941-70 normals

Weather Data for the Week Ending May 25, 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 March 3	Pct. normal since March 3	Average maximum	Average minimum	Temperature °F		Precipitation		
														90 and above	32 and below	.01 inch or more	.50 inch or more	
OK OKLAHOMA CITY	78	59	91	53	69	-1	0.7	-0.5	0.3	8.9	93	84	53	1	0	2	0	
OK TULSA	81	61	93	54	71	0	0.1	-1.1	0.1	13.9	131	84	53	2	0	1	0	
OR ASTORIA	58	47	62	40	53	-1	0.7	0.1	0.2	12.5	96	89	69	0	0	5	0	
OR BURNS	65	37	84	33	51	-3	T	-0.3	T	1.7	77	79	18	0	0	0	0	
OR MEDFORD	69	42	87	35	56	-3	0.3	-0.1	0.1	3.7	97	85	42	0	0	4	0	
OR PENDLETON	67	47	80	41	57	-3	0.3	0.0	-2.0	3.6	120	--	36	0	0	2	0	
OR PORTLAND	63	48	76	44	56	-2	1.2	0.7	0.6	7.4	101	92	51	0	0	5	1	
OR SALEM	63	42	73	37	53	-4	0.3	-0.2	0.1	8.1	100	91	53	0	0	4	0	
PA ALLENTOWN	79	59	86	52	69	7	0.6	-0.2	0.5	12.3	122	91	84	0	0	2	0	
PA ERIE	70	51	82	45	60	2	0.0	-0.8	0.0	9.1	102	--	--	0	0	0	1	
PA HARRISBURG	79	58	86	53	69	4	1.7	0.8	1.4	14.0	154	99	59	0	0	4	0	
PA PHILADELPHIA	79	60	87	53	70	4	0.8	0.0	0.4	14.5	151	94	55	0	0	3	0	
PA PITTSBURGH	76	56	81	51	66	4	0.9	0.1	0.5	12.6	131	95	53	0	0	4	0	
PA SCRANTON	79	54	87	48	67	6	0.1	-0.7	0.1	7.2	87	90	36	0	0	1	0	
RI PROVIDENCE	76	54	86	49	65	6	0.8	0.0	0.7	16.0	157	75	47	0	0	3	1	
SC CHARLESTON	84	66	85	62	75	1	2.5	1.5	1.9	16.6	163	98	62	0	0	0	2	
SC COLUMBIA	81	61	84	56	71	-3	3.4	2.6	2.5	16.3	152	94	48	0	0	5	2	
SC GREENVILLE	78	62	81	55	70	-1	3.4	2.8	2.4	20.3	172	91	60	0	0	5	2	
SD ABERDEEN	85	51	88	40	68	10	1.0	0.4	0.9	3.2	67	74	26	0	0	1	1	
SD HURON	85	51	89	38	68	8	0.1	-0.6	0.1	2.2	43	83	28	0	0	0	0	
SD RAPID CITY	80	51	88	40	66	9	0.1	-0.6	T	3.0	57	76	29	0	0	2	0	
SD SIOUX FALLS	80	49	87	41	64	4	0.0	-0.8	0.0	2.0	32	81	35	0	0	0	2	
TN CHATTANOOGA	75	60	79	53	67	-3	1.9	1.1	0.6	24.7	196	95	65	0	0	6	2	
TN KNOXVILLE	76	61	81	58	69	-2	2.1	1.4	0.7	15.7	145	95	65	0	0	6	1	
TN MEMPHIS	80	66	89	62	73	0	2.0	1.1	2.0	22.5	161	87	57	0	0	3	2	
TN NASHVILLE	79	60	83	54	70	-1	2.0	1.1	1.0	16.5	135	94	56	0	0	4	0	
TX ABILENE	85	62	96	55	74	0	0.2	-0.7	0.2	4.1	62	88	38	2	0	1	0	
TX AMARILLO	79	50	86	45	65	-3	T	-0.7	T	4.7	115	78	27	0	0	0	0	
TX AUSTIN	86	67	91	61	76	0	0.1	-0.8	0.1	10.7	124	95	53	2	0	1	1	
TX BEAUMONT	85	69	90	63	77	1	0.7	-0.4	0.7	15.2	139	93	60	1	0	0	0	
TX BROWNSVILLE	90	73	93	69	82	2	1.1	0.5	0.8	1.9	50	89	57	4	0	2	1	
TX CORPUS CHRISTI	87	69	90	66	78	-1	1.7	0.9	1.3	3.4	59	94	54	1	0	3	1	
TX DEL RIO	93	71	99	68	82	2	0.5	-0.1	0.5	4.7	112	82	35	5	0	1	1	
TX EL PASO	91	58	95	51	75	1	0.0	-0.1	0.0	0.6	55	36	11	5	0	0	0	
TX FORT WORTH	88	63	97	56	76	2	0.2	-0.8	0.2	6.5	62	95	41	2	0	1	0	
TX GALVESTON	82	72	84	68	77	-1	2.6	1.8	1.3	11.7	154	84	70	0	0	2	1	
TX HOUSTON	89	68	93	62	78	1	0.8	-0.4	0.8	12.7	125	93	53	2	0	1	0	
TX LUBBOCK	84	57	93	53	70	0	0.1	-0.7	0.1	4.6	102	72	23	3	0	1	0	
TX MIDLAND	84	57	93	52	71	-4	0.1	-0.4	0.1	2.7	93	84	24	3	0	1	0	
TX SAN ANGELO	84	61	94	51	73	-3	0.8	0.2	0.8	6.0	130	88	40	2	0	2	1	
TX SAN ANTONIO	87	67	90	62	77	0	0.4	-0.3	0.4	8.9	135	87	48	1	0	2	0	
TX VICTORIA	86	69	89	65	77	0	1.9	1.0	1.7	10.6	141	88	57	0	0	2	1	
TX WACO	86	63	94	57	75	-2	0.1	-0.9	0.1	10.6	104	95	49	2	0	1	0	
TX WICHITA FALLS	85	58	98	53	72	-2	0.4	-0.7	0.2	5.4	61	88	38	2	0	0	0	
UT BLANDING	75	--	--	--	57	-2	0.0	-0.1	0.0	2.9	138	57	14	0	0	0	0	
UT SALT LAKE CITY	73	47	86	37	60	0	0.3	0.0	0.3	5.6	112	68	30	0	0	2	0	
VT BURLINGTON	77	53	86	46	65	7	0.2	-0.5	0.2	6.1	91	87	36	0	0	1	0	
VA LYNCHBURG	78	61	83	56	70	3	1.3	0.5	1.0	11.8	137	98	--	0	0	3	1	
VA NORFOLK	79	64	86	57	71	2	4.4	3.6	3.4	11.6	136	80	59	0	0	4	1	
VA RICHMOND	80	63	87	55	71	3	3.4	2.6	1.9	12.7	144	--	65	0	0	5	2	
VA ROANOKE	76	59	83	53	67	1	1.3	0.5	0.8	12.4	141	98	62	0	0	3	1	
WA COLEVILLE	66	51	79	44	58	2	0.4	0.0	0.3	6.1	191	--	--	0	0	3	0	
WA OMAK	66	47	75	38	56	-3	0.1	-0.2	0.1	2.7	104	--	47	0	0	2	0	
WA QUILAYUTE	56	43	60	34	49	-3	1.8	0.9	1.0	21.2	95	96	67	0	0	4	1	
WA SEATTLE-TACOMA	58	46	61	37	52	-5	0.3	-0.1	0.2	5.7	79	88	58	0	0	6	0	
WA SPOKANE	64	49	75	40	56	0	1.0	0.6	0.5	3.8	95	78	55	0	0	2	1	
WA WALLA-WALLA	69	51	85	44	60	-1	0.5	0.1	0.2	3.5	81	75	35	0	0	2	0	
WA YAKIMA	70	49	81	33	60	0	T	-0.1	T	1.5	125	67	34	0	0	0	1	
WV BECKLEY	72	55	76	48	63	3	1.2	0.3	0.8	10.0	97	94	58	0	0	6	0	
WV CHARLESTON	76	58	82	55	67	1	1.1	0.3	0.4	11.9	119	97	66	0	0	5	0	
WV HUNTINGTON	76	60	82	55	68	-1	1.1	0.2	0.6	9.8	95	98	65	0	0	5	1	
WV PARKERSBURG	76	60	82	55	68	2	1.3	0.5	0.8	8.6	88	92	57	0	0	5	1	
WI GREEN BAY	80	51	86	45	66	9	0.0	-0.7	0.0	4.7	69	89	37	0	0	0	0	
WI LA CROSSE	86	54	91	47	70	8	0.0	-0.9	0.0	2.7	36	92	28	1	0	0	0	
WI MADISON	82	48	87	41	65	7	T	-0.8	T	4.3	60	95	34	0	0	0	0	
WI MILWAUKEE	71	50	81	47	61	4	T	-0.7	T	6.2	87	85	40	0	0	0	0	
WY CASPER	75	44	86	38	59	5	0.2	-0.2	0.2	4.0	100	77	25	0	0	2	0	
WY CHEYENNE	72	45	76	39	58	4	0.0	-0.6	0.0	4.8	102	73	26	0	0	0	0	
WY LANDER	72	45	83	39	59	4	T	-0.6	T	6.6	116	68	25	0	0	0	0	
WY SHERIDAN	78	45	90	39	61	6	1.4	0.8	0.9	4.7	89	82	28	1	0	2	1	
PR SAN JUAN	89	77	94	76	83	4	1.7	0.2	1.3	6.5	63	90	61	2	0	5	1	

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:** Scattered showers, thunderstorms added to above normal precipitation. Temperatures near normal.

Fieldwork: 0.9 day suitable. Soil moisture surplus. Limited field activity. Planting progress: Corn 94%, 96% 1979, 94% average; soybeans 35%, 53% 1979, 49% average; cotton 96%, 98% 1979, 96% average; peanuts 92%, 96% 1979, 89% average; sorghum 34%, 45% 1979. Wheat 76% turning, 78% 1979; 2% harvested, 7% 1979, 15% average. Hay 8% harvested. Condition: Corn, peanuts, sorghum, wheat mostly good; soybeans, cotton fair to good; pastures, livestock good.

**ALASKA:** Tanana Valley warm, dry. Light rain. Seasonal rainfall is half or less the normal amount. Matanuska Valley, Kenai Peninsula cool with occasional periods of light rain. Temperatures slightly below normal. Seasonal rainfall little below normal. Kodiak Island cool, wet. Temperatures near normal. Rainfall mostly steady. Seasonal rainfall close to twice the normal amount.

Scattered showers Tanana, Matanuska Valleys delayed farm work. Farmers generally on schedule throughout railbelt. Barley and oat seeding ranged 50% to complete. Early seeded grain fields began emerging. Commercial potato planting over 90% complete. Overall crop growth ranged from slow to moderate. Soil moisture supplies mostly adequate. Pasture growth slow.

**ARIZONA:** Light showers in north. Average temperatures mostly 1 to 5° below normal.

Small grain harvest continues. Harvested fields being rapidly prepared for next crop. Cotton 98% planted, same as last year. Squares increasing, developing satisfactorily. Corn planting approaching 100%, 80% emerged. Sorghum 85% planted. Flowering continues safflower plantings. Sugarbeet harvest in progress. Third cutting alfalfa continues. Lettuce harvest continued Cochise County, harvest complete central areas. Mixed vegetable harvest, seasonal progress. Potato, dry onion harvest increasing. Grapes good growth, harvest expected this week. Deciduous fruit harvest underway, mostly peaches. Grapefruit, Valencia orange harvest steady. Groves very good condition. Range, pasture conditions fair to good in north. Water supplies adequate, ranges providing average amounts feed. Southern areas reported poor to fair range conditions with shortage water supplies, forage. Cattle remain fair to good condition.

**ARKANSAS:** Rainfall varied 0.25 to 3.62 in. Temperatures averaged 1° above to 3° below normal.

Wet conditions plagued farmers planting cotton, rice and soybeans. Fieldwork: 2.0 days suitable. Soil moisture surplus. Soybean planting 13%, 13% 1979, 34% average. Rice seeding 90% complete, 79% 1979, 91% average. Adverse weather hampered cotton development, limited plantings 93%, 95% 1979, 93% average. Replanting as weather permits. Corn 77% planted, 65% 1979, 82% average. Sorghum planting 74% completed, 64% 1979, 74% average. Wheat, oats good condition. Apples, peaches good condition. Strawberry harvest prolonged by rain, crop prospects excellent. Tomato prospects good. Pastures average condition. Cattle good condition.

**CALIFORNIA:** Cotton growth good, irrigation, thinning, weeding becoming active. Rice 91% seeded,

93% year ago, 60% emerged, 66% year ago. Winter wheat nearly all headed, about 80% turning color. Harvest increasing. Barley, oats for grain harvest begun. Grain hay harvest continues active. Alfalfa, native hay harvest normal. Harvesting sugarbeets. Planting field corn, sugarbeets, dry beans, progressing. Planted fields good emergence, growth. Harvesting apricots, avocados, cherries, Freestone peaches. Picking table grapes in Desert. Very heavy olive bloom. Good quality Desert grapefruit. Active lemon picking. Navel harvest nearly finished. Active Valencia harvest. Large almond nut size, good walnut set. Delta asparagus mostly to processors. Green bean harvest started. Broccoli volume decreased from previous high levels. Cantaloup, watermelon, harvest started. Carrot volume decreasing. Sweet corn harvest active. Cucumber harvest started. Lettuce supplies slightly lower as some shippers between plantings. Freezer pea harvest virtually complete. Bell pepper harvest started. Potato harvest steady. Planting fall potatoes well along. Diversion strawberries to freezers. Harvest market tomatoes started. Lower elevation ranges pastures matured. Movement livestock summer ranges has been completed few areas. Summer grazing conditions expected excellent. Sheep shearing continues.

**COLORADO:** Average precipitation 0.10 in. Temperatures near normal.

Winter wheat 70% jointed, 73% 1979, 81% average. Barley 93% seeded, 96% 1979, 99% average; 90% emerged, 89% 1979, 90% average. Corn 76% seeded, 87% 1979, 91% average; 39% emerged, 56% average. Oats 87% seeded, 81% 1979, 96% average. Sugarbeets 97% seeded, 95% 1979, 99% average. Spring wheat 94% seeded, 96% 1979. Dry beans 10% seeded, 11% 1979, 13% average. Sorghum 7% seeded, 30% 1979, 27% average. Ranges and pastures good condition. Livestock good condition. Fieldwork: 3.5 days suitable.

**FLORIDA:** Rainfall averaged 1.00 to 2.00 in. with local accumulations over 5.00 in. Temperatures were 2 to 4° above normal.

Soil moisture mostly adequate. Corn, tobacco, sugarcane good condition. Peanuts about planted. Soybean planting full swing, some delays caused by rain. Small grain harvest getting underway. Peach and nectarine harvest about complete. Pastures generally good to excellent. Cattle, calves generally good condition. Citrus trees and new crop fruit in excellent condition. New crop fruit making excellent progress. Valencia orange harvest continues very active. Many crops declining seasonally, completing harvest. Crops remaining for harvest continue in good to very good condition. Fruit quality, size good. Fruit set generally good, fruit sizing well. Overall vegetable shipments held steady from previous week. Supplies watermelons increased considerably, sweet corn, okra, parsley, tomatoes also gained. Celery, eggplant, radishes held steady but shipments snap beans, cabbage, carrots, chinese cabbage, cucumbers, escarole, lettuce, peppers, potatoes, squash decreased. Decrease was seasonal for most crops. Potato harvest in full swing Hastings. Volume steady, quality generally good. Watermelon volume steady but many growers nearing completion. Quality, size good. Crop condition generally good southeast.

Light harvest underway, north central area. Quality good; size variable, mostly 20 to 24 pounds. Crop condition fair, north. Quality, size outlook good. Selective cutting this week. Crop condition fair, west. Vines setting fruit.

GEORGIA: Temperatures averaged near normal. Heavy rainfall totaling 2.00 to 5.00 in. most areas.

Soil moisture adequate to surplus. Fieldwork: 3.0 days suitable. Corn fair to mostly good, 5% silked. Tobacco fair to good condition, blue mold still evident. Peanuts fair to mostly good, weed control active. Soybeans 42% planted, 62% last year, 52% average, fair to mostly good. Sorghum 36% planted, 44% last year, 40% average. Cotton fair to mostly good. Hay crops fair to mostly good, rain delaying harvest. Wheat 8% harvested, 14% last year, 20% average. Peaches fair to mostly good, 4% harvested, 4% last year, 10% average. Apples fair to mostly good. Vegetables fair to good. Pastures fair to mostly good. Cattle and hogs good. Fuel supplies adequate.

HAWAII: Weather continues favorable. Showers occasional, weather warmer. Crops making improvements. Yields increasing, supplies increasing. More fields under irrigation. Spraying for insect, disease controls. Vegetables supplies up for most crops. Some disease problems on watermelons. Banana supplies light. Papayas heavy harvest most orchards. Pineapple harvesting gradually increasing. Shortage of labor both factory and field operations reported. Sugar maximum harvesting. Pastures generally fair to good.

IDAHO: Temperatures averaged above normal. Extremes: 30 and 97°. Precipitation ranged from trace to 1.12 in.

Potatoes planted 78%, 88% 1979. Corn planted 80%, 88% 1979. Dry beans 24%, 14% 1979. Spring wheat emerged 96%, 84% 1979. Spring barley emerged 92%, 72% 1979. Potatoes emerged 32%, 21% 1979. Corn emerged 26%, 51% 1979. Dry peas emerged 98%, 65% 1979. Fieldwork: 5.0 days suitable. Warm conditions followed by rain boosted crop development, improved water supplies. Winter wheat 100% jointed, 50% in boot, 4% headed. Range and pasture good to excellent. More cattle and sheep out on summer ranges. Too early to predict crop damage from volcanic ash fallout.

ILLINOIS: Temperatures 1 to 3° above normal. Precipitation up to 1.00 in.

Soil moisture mostly adequate. Corn planting 98% complete, 88% 1979, 86% average. Corn condition good. Soybean planting 73% complete, 53% 1979, 57% average. Winter wheat good, 70% headed, 68% 1979, 75% average. Oats good. Alfalfa good, 15% first crop cut, 15% 1979, 22% average. Red clover good. Sorghum 20% planted. Pastures good. Fieldwork: 3.8 days suitable.

INDIANA: Temperatures averaged 3° above normal. Extremes: 44 and 88°. Rainfall averaged 0.80 in.

Fieldwork: 3.0 days suitable. Topsoil moisture adequate to surplus. Subsoil moisture adequate. Corn 95% planted, 1979 85%, average 75%. Corn 75% emerged, 1979 45%, average 55%. Soybeans 50% planted, 1979 50%, average 45%. Soybeans 25% emerged, 1979 10%, average 25%. Wheat good condition. Wheat 25% headed, 1979 30%, average 75%. Oats 7 in. high, 1979 6 in., average 8 in. Oats 5% headed, 1979 5%, average 5%. Alfalfa hay 15% cut first time, 1979 15%, average 25%. Clover hay 10% cut.

IOWA: Warm week with spotty showers.

Fieldwork: 4.8 days suitable. Corn acreage planted 100%, 1979 92%, normal 94%. Corn acreage

emerged 78%, 1979 41%, normal 60%. Soybean acreage planted 73%, 1979 52%, normal 68%. Soybean acreage emerged 11%, 1979 5%, normal 25%. Topsoil moisture short to adequate. Subsoil moisture short to adequate. Cover crops fair to good, some improvement. Livestock good condition. Market movement increased.

KANSAS: Beneficial moisture mostly in south. Averages from 0.50 in. to 0.75 in., less than 0.25 in. common over north and little or none in northeast. Temperatures averaged 2° above normal northwest to 2° below normal south central.

Spring fieldwork advances. First cutting alfalfa 30%, 40% last year and average. Corn acreage planted 75%, equals year ago, behind 85% average. Soybeans 20% in, 20% last year, 25% average. Sorghum acreage 20% planted, equal year earlier, average of 25%. Wheat 45% headed, 55% a year ago, 85% average.

KENTUCKY: Precipitation averaged between 0.50 to 2.00 in. Temperatures generally 2 to 4° above normal.

Fieldwork: 2.9 days suitable. Soil moisture supplies adequate. Corn 90% planted, 64% last year, 75% average. Corn 65% emerged, average height 5 in. Soybeans 32% planted, 19% last year, 28% average. Tobacco plants in beds mostly good condition. Plant size: Less than 2 in. 35%, 2 to 4 in. 45%, larger than 4 in. 20%. Less than 5% tobacco set. Concern over possible plant shortage. Small grain prospects good. Less than 10% wheat turing yellow. Small grain silage harvest underway. First cutting alfalfa hay 40% complete.

LOUISIANA: Rain up to 5.19 in. statewide. Temperatures 2° below to 1° above normal. Extremes: 58 and 92°.

Soil moisture surplus. Fieldwork: 1.0 day suitable. Corn planting near complete, 1979 same. Emerged 94%, 1979 near complete. Condition fair. Spotty stands. Cotton planted 74%, 96% 1979, 87% average. Emerged 62%, 77% 1979. Replanting because drowning. Rice planted 91%, 95% 1979, 95% average. Emerged 88%, 93% 1979. Condition fair. Heavy flooding southwest result loss. Sorghums planted 41%, 56% 1979, 54% average. Emerged 36%, 37% 1979. Condition fair. Soybeans planted 19%, 45% 1979, 46% average. Flooding caused much replanting. Sugarcane fair. Small grains all headed, turned color 82%, 1979 most all. Harvest delayed by wet conditions. May lose some fields. Haying, 1st cutting 30%. Livestock, pasture good. Vegetable condition fair. Sweetpotatoes planted 48%, 60% 1979, 54% average.

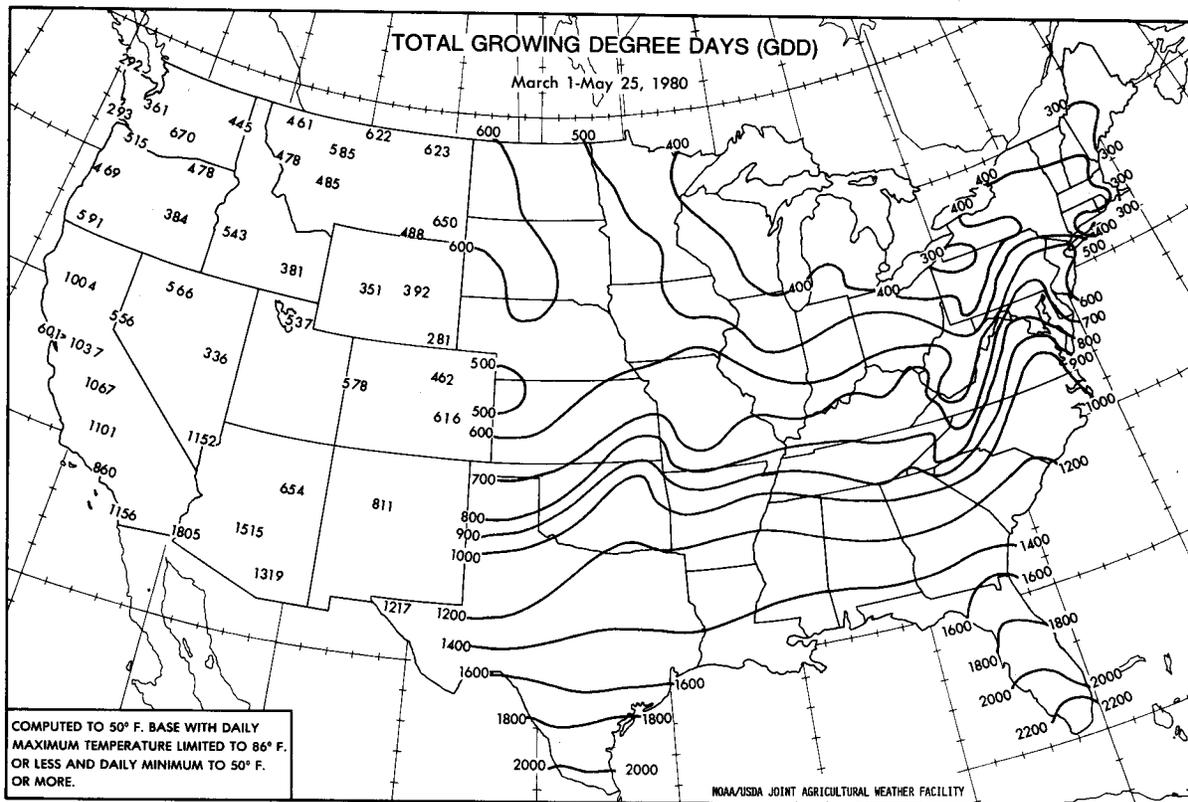
MARYLAND & DELAWARE: Temperatures averaged 2° above normal. Highs in mid 70's, lows in the mid 50's. Precipitation averaged 1.77 in.

Corn planting 80%, 83% normal, 86% last year. Soybeans 20% planted, 22% last year, 24% normal. Small grain headed and beginning to turn. Haymaking halted due to wet conditions. Tobacco transplanting underway. Fruit crop good to excellent.

MICHIGAN: Temperatures 4 to 18° above normal. Extremes: 89 and 34°. Only precipitation was less than 0.10 in. over south.

Plowing 90% complete, 87% last year and normal. Corn 80% planted, 75% last year and normal. Oats 100% seeded, 94% last spring, 97% normal. Potatoes 80% planted, 37% last year, 34% normal. Dry beans 3% planted. Asparagus 50% harvested, 26% last year, 40% normal. Apples, strawberries in full bloom. Sweet cherries past bloom, tart cherries full bloom north.

MINNESOTA: Temperatures averaged 15 to 20° above normal in north, 10° above normal elsewhere. Extremes: 98 and 37°. Precipitation averaged 0.50 to nearly 1.00 in. below normal. Precipita-



tion totals very light, several stations reporting zero amounts.

Severeness of soil moisture shortage continued to increase. Most crops rated only poor to fair. Recent showers and favorable subsoil moisture keeping crops fair to good condition south. Pastures short, some supplemental feeding. Planted: Corn 95%, 1979 70%, normal 87%; soybeans 80%, 1979 35%, normal 64%; other spring wheat 99%, 1979 69%, normal 90%; oats 99%, 1979 81%, normal 93%; barley 99%, 1979 59%, normal 85%; flax 76%, 1979 33%, normal 63%; sunflowers 86%, 1979 26%, normal 55%; potatoes 88%, 1979 31%, normal 66%. Emerged: Corn 52%, 1979 6%, normal 49%; soybeans 17%, 1979 2%, normal 23%; other spring wheat 88%, 1979 29%, normal 72%; oats 94%, 1979 48%, normal 79%; barley 89%, 1979 20%, normal 66%. Jointing: Winter wheat 36%, 1979 4%, normal 29%; rye 42%, 1979 4%, normal 22%.

MISSISSIPPI: Temperatures 2 to 5° below normal. Extremes: 51 and 91°. Rainfall most areas.

Soil moisture surplus to excessive. Fieldwork: 1.0 day suitable. Hay recently cut hurt by rain, too wet to bale. Weeds becoming a problem, fields too wet to cultivate. Hay 10% harvested, 17% 1979. Sorghum 40% planted, 54% 1979, 45% average. Sweetpotatoes 36% planted, 53% 1979, 54% average. Soybeans 25% planted, 34% 1979, 34% average; 11% up to stand, 16% 1979, 18% average. Rice 93% planted, 86% 1979, 86% average; 83% up to stand, 63% 1979, 71% average; condition good to fair. Wheat 14% ripe, 39% 1979; 3% harvested, 7% 1979, 8% average; condition good to fair. Cotton 89% planted, 97% 1979, 89% average; 73% up to stand, 79% 1979, 68% average; condition mostly fair. Corn 95% planted, 93% 1979, 89% average; 86% up to stand, 80% 1979; condition good to fair. Peaches fair to good. Pastures good to fair.

MISSOURI: Temperatures averaged 2° below normal. Precipitation averaged 0.25 to 0.50 in. northwest, 0.50 to over 2.00 in. elsewhere.

Fieldwork: 4.5 days suitable. Corn 92% planted, last year 79%, normal 75%. Grain sorghum 60% planted, last year 29%, normal 44%. Soybeans 52% planted, last year 24%, normal 42%. Wheat 68% headed, last year 66%, normal 84%. Wheat 2% turning color, last year 1%, normal 14%. Alfalfa hay 32% harvested, last year 26%, normal 32%. Condition of winter wheat and pasture mostly fair to good. Topsoil moisture supply mostly short to adequate.

MONTANA: Temperatures above normal. Some areas of west received heavy rainfall. Again east was left dry.

Moisture aided conditions in west and portions central. Continued very dry east. Fieldwork: 3.0 days suitable. Volcanic ash fallout 2 days. Winter wheat condition fair. Corn 80% planted, 55% last year, 60% average. Potatoes 55% planted, 50% last year, 55% average. Dry beans 65% planted, 60% last year, 65% average. Planting of spring wheat, barley and oats essentially finished. Winter wheat 35% in boot and 5% headed. Spring wheat 80% emerged and barley 85%. About 75% of cattle and sheep moved to summer pastures. Stock water supplies adequate except eastern third.

NEBRASKA: Temperatures 7° above normal in west, 1° above normal in east. Precipitation 0.50 to 1.00 in.

Winter wheat condition mostly good. Jointing 95% complete, 70% last year. Heading 20% complete, less than 5% last year, 25% normal. Corn 95% planted, 85% last year, 90% normal. Corn emerged 65%, 35% last year. Sorghum 50% planted, 30% last year, 45% normal. Sorghum emerged 10%, 5% last year. Soybeans

50% planted, 30% last year, 40% normal. Soybeans 10% emerged, 5% year ago. First crop alfalfa 5% harvested. Moisture supplies mostly adequate. Range, pasture feed supplies mostly adequate. Grasshopper populations increasing.

NEVADA: Rain in valleys, snow at higher elevations. Temperatures averaged slightly above normal.

Low night temperatures slowed crop growth. Freezing some areas. Good to excellent grazing summer ranges.

NEW ENGLAND: Precipitation 0.10 to 0.30 in. Fieldwork: 5.0 days suitable. Potatoes 75% planted south, 45% north. Field corn 50% planted. Apple trees at full bloom central, in petal fall and beyond south. Soil moisture mostly adequate. Grazing conditions adequate.

NEW JERSEY: Temperatures averaged 3 to 5° above normal. Extremes: 39 and 91°. Rainfall averaged 0.40 to 0.81 in. Four in. soil temperatures averaged 64° north, 69° central and 70° south.

Fieldwork: 3.9 days suitable. Crop prospects mostly good. Iceberg lettuce harvest begun. Sweet-potato transplanting continues. Strawberry harvest begun. Apples, peaches and blueberries sizing. Fall sown grains good condition. Rye straw being cut. Hay cutting underway as weather permits. Field corn and soybean planting continue. Pasture growth good.

NEW MEXICO: Fair to partly cloudy most days with temperatures near normal.

Soil moisture short to adequate. Light hail damage Malaga area of Eddy County. Cotton planting 95% complete. Some areas replanted cotton. First cutting alfalfa near completion in south. Alfalfa condition good. Quay County poor to fair due to weevil damage. Irrigated wheat and barley good condition. Most of crop headed and beginning to color. Planting of corn and grain sorghum nearly complete. Both crops in good condition. Dryland crops poor to fair. Chile good condition. Thinning in progress. Lettuce harvest nearly complete. Onion harvest in progress.

NEW YORK: Temperatures 4 to 9° above normal. Rainfall very light.

Corn planting 57% complete, 70% 1979, 60% average. Oat planting 83% complete, 92% 1979, 86% average. First cutting alfalfa starting. Potato planting complete. Western peaches, pears, cherries in petal fall stage. Hudson Valley apple set appears excellent. Champlain Valley apples in full bloom.

NORTH CAROLINA: Temperatures near normal. Precipitation 2.0 to 4.0 in.

Fieldwork: 3.2 days suitable. Soil moisture adequate to surplus. Wheat, oats, barley mostly good; pastures mostly good; field tobacco fair to mostly good; corn mostly good; cotton fair to mostly good; Irish potatoes fair to mostly good; peaches fair to mostly good; truck crops fair to good. Plantings: Corn virtually complete, 1979 98%, average 95%; cotton 99%, 1979 97%, average 94%; peanuts 99%, 1979 70%, average 79%; sweetpotatoes 23%, 1979 49%, average 46%; sorghum 50%, 1979 32%, average 46%; soybeans 50%, 1979 48%, average 47%; flue-tobacco 92%, 1979 93%, average 88%; burley tobacco 29%, 1979 24%, average 36%. Some surplus in fuel supplies appearing.

NORTH DAKOTA: Thunderstorms gave some areas the first rain in nearly two months. Rain was highly variable. Most western areas didn't get any rain. Rainfall amounts this spring generally less than 20% of normal. Temperatures averaged 14 to 20° above normal. Lowest recorded was 36°.

Seeding and crop progress continues ahead of normal. Percents planted with current progress, last year and average: Hard red spring wheat 90, 49, 71; durum wheat 88, 33, 61; barley 86, 45, 69; oats 90, 44, 68; Hard red spring wheat 66% emerged. Durum 58% emerged. Barley 56% emerged. Oats 62% emerged. Flax planting 35% complete. Row crops planted percents are: Sugarbeets 98; sunflower 39; corn 57; soybeans 58; dry edible beans 56; and potatoes 86. Spring seeded small grain rated mostly poor to fair. Winter wheat and rye rated mostly poor. Virtually all areas short on top and sub-soil moisture. Pasture growth poor. Hay supplies getting low with current hay prospects dim. Some cow/calf pairs being sold for lack of feed.

OHIO: Temperatures averaged slightly above normal. Although precipitation averaged below normal many areas, amounts in excess of 1.00 in. were reported where thunderstorms were heavy. Corn planted 90%, 95% 1979, 90% average. Soybeans planted 55%, 70% 1979, 65% average. Potatoes planted 85%, 90% 1979, 85% average. Corn emerged 60%, 65% 1979. Alfalfa cut 5%, 15% 1979, 10% average. Pasture condition good.

Fieldwork: 2.5 days suitable. Soil moisture adequate to surplus.

OKLAHOMA: Temperatures near normal. Precipitation less than 1.00 in. to 1.04 in.

Cool temperatures and rains favorable for filling wheat heads. Wheat harvest 2 weeks later than normal. Early planted cotton being washed out by heavy rains and will require replanting. Spring planting activities halted by wet fields. Much first cutting alfalfa being damaged from rains. Pastures and ranges good condition and providing excellent grazing. Wheat heading 90%, 95% 1979, 100% average. Wheat soft dough 15%, 30% 1979, 50% average. Sorghum 20% planted, 25% 1979, 35% average. Corn planted 95%, same as 1979 and average. Cotton 15% planted, 25% 1979, 35% average. Fieldwork: 3.3 days suitable.

OREGON: Temperatures averaged near normal to 6° above normal. Average of 0.50 in. precipitation along coast and north, up to 0.15 in. elsewhere.

Soil moisture supplies adequate. Winter wheat condition good; 53% headed, 26% last year. First cutting alfalfa in progress. Mint generally good, cutworms present. Strawberries continue to bloom, set good. Apples and pears being sprayed for scab. Caneberries excellent. Sweet cherries below normal. Vegetables good; wet weather delaying some plantings. Potatoes going. Early potatoes growing well with rows closing. Livestock, range and pasture condition good. Cattle moving to summer ranges. Silage harvest underway.

PENNSYLVANIA: Temperatures averaged 2 to 4° above normal. Extremes: 92 and 30°. Rainfall less than 0.25 in. all except south central where 1.00 to 2.00 in.

Fieldwork: 4.0 days suitable. Soil moisture adequate to surplus. Plowing 90%, last year 95%. Soybeans 33% planted, same as last year. Oats sown. Potatoes 77% planted, last year 83%. Corn 65% planted, last year 76%, average 73%. Barley 57% headed, 31% boot, last year 61% headed, 26% boot. Wheat 15% headed, 51% boot, last year 31% headed, 50% boot. Hay conditions good to fair. Alfalfa first cutting 7% complete. Feed from pasture average to above average. Apples in full bloom or past.

PUERTO RICO: Island average rainfall 2.07 in. or 0.34 in. above normal. Temperatures averaged 81° on coasts and 75 to 77° interior divisions. Extremes: 95 and 56°.

**SOUTH CAROLINA:** Cloudy with rainfall, high ranging mostly in 70's. Greatest rainfall 2.84 in.

Soil moisture adequate to surplus. Fieldwork: 3.0 days suitable. Corn planted, fair to good condition. Cotton fair to good. Virtually all planted but some replanting where dry soils hindered germination, herbicide effectiveness; some weed pressure. Soybeans 34% planted, 60% last year, 48% average. Rain delayed work but soil moisture now ideal. Tobacco transplanting finished. Some blue mold spreading in fields. Spraying tobacco budworms; crop fair to good. Peanuts fair to good, 72% planted with some replanting, 88% year ago, 91% average.

Peaches 1% harvested. Condition fair to good. Apple condition good. Small grains fair to good. Ripening rapidly. Wheat 7% ripe, 39% last year.

Tomatoes good to excellent condition. Snap beans fair, 11% harvested, 36% last year. Cucumbers fair to good, 3% harvested, 15% last year.

**SOUTH DAKOTA:** Temperatures above normal except southeast where near normal. Extremes: 99 and 35°. Limited rainfall.

Topsoil moisture mostly short. Winter wheat mostly poor condition. Other spring seeded small grains in poor condition. Stress continues due to lack of moisture. First cutting alfalfa reduced due to lack of moisture and early May freeze. Livestock mostly good, ranges poor, water supplies short. Corn 88% planted, 1979 61%, average 71%. Soybeans 61% planted, 1979 29%, average 50%. Sorghum 35% planted, 1979 16%, average 21%. Sunflowers 34% planted, 1979 14%, average 10%.

**TENNESSEE:** Precipitation amounts above 3.00 in. common. Temperatures averaged near normal.

Fieldwork: 1.7 days suitable. Soil moisture surplus. Spring plowing 90% completed, 1979 82%, average 87%. Corn 89% planted, 1979 78%, average 79%. Cotton 94% planted, 1979 81%, average 90%. Soybeans 23% planted, 1979 16%, average 29%. Tobacco 20% transplanted, 1979 37%, average 39%. Wheat 95% headed, 1979 93%, average 91%. Oats 88% headed, 1979 93%, average 90%. Pastures good. Alfalfa first cutting 67% complete, 1979 74%, average 67%.

**TEXAS:** Scattered thunderstorms during the week. Temperatures 1 to 2° below normal Panhandle, near normal elsewhere. Precipitation 0.50 in. above normal Valley, 0.50 in. below normal east central, near normal elsewhere. Average precipitation 0.25 in. or less southwest, 1.00 in. or greater east central.

Additional rain enhanced grazing prospects. Native grasses, improved pastures responded quickly. Lush forage many areas. Most supplemental feeding ending. Livestock in fair to good condition.

Lower Rio Grande Valley, harvest onions, cabbage, carrots continued. Movement of tomatoes, cantaloups, honeydew melons, watermelons, cucumbers, okra continued to increase. Citrus received some wind scarring on outer fruit. In Coastal Bend area, harvest cucumbers, watermelons underway. Small supplies squash, sweet corn available. In the San Antonio-Winter Garden area, wet fields slowed most harvest activity. Some onions, beets, late carrots harvested. In East Texas, early harvest potatoes continued as surplus moisture beginning to cause some rot problems. Limited supplies squash, beans available. Planting sweetpotatoes continued. Some fields up, looking good. Growth tomatoes, peppers slowed by excess moisture. In North Texas, most vegetables recovered from heavy rains, some loss tomatoes, peppers occurred. Limited supplies green onions, beans, potatoes available. In Trans-Pecos area, lettuce harvest about over. Cantaloups starting to spread. Planting honeydew, watermelons continued.

High Plains, most vegetables planted, doing well. Some onions received hail damage. Some peppers having trouble emerging because of crusting following rain. Harvest early peaches began in East Texas.

Rains hampered fieldwork, delayed planting Plains, Cross-Timbers, Blacklands. Rio Grande Valley, cultivation of cotton, corn, sorghum and harvest of small grains slowed by wet conditions. Moisture supplies adequate, dry weather needed for planting, harvest. Cotton planting 47% complete, High Plains, northern Low Plains, planting in full swing as soil conditions improve. Stands good to excellent condition, responding to recent rains. Fields squaring and progressing well in Central and South, Rio Grande Valley. Lower Rio Grande fields setting bolls. Rains delayed cultivation, weeds becoming problem. Fields replanted due to hail damage. Corn planting 98% complete. Stands good condition, responding to improved moisture conditions. Valley fields tasseling, stalks short due to lack of moisture. Sorghum 75% planted, 15% headed. Plains, Blacklands, Cross-Timbers, planting moving steadily, expected to pick up as soil conditions dry. Stands in generally good condition. South, Rio Grande Valley, fields in boot stage. Rice seeding completed, virtually all emerged. Stands in excellent condition, developing well. Peanut planting continued behind previous years. Planting slow due to wet conditions. Small grains nearing maturity. Wheat being grazed South, Gulf Coast. Rio Grande Valley, South, Central wheat and oats being harvested. Flax, barley prospects hampered by dry conditions. Cotton planted 47%, 55% 1979, 66% average.

Cotton squaring 11%, 5% 1979, 9% average. Cotton setting bolls 4%, 3% 1979. Rice planted 100%, 99% 1979, 99% average. Rice emerged 99%, 92% 1979. Sorghum planted 75%, 75% 1979, 79% average. Sorghum headed 13%, 18% 1979. Sorghum turning color 1%, 2% 1979. Wheat headed 74%, 99% 1979. Wheat turning color 23%, 37% 1979. Wheat harvested for grain 0%, 2% 1979, 2% average. Corn planted 98%, 100% 1979, 99% average. Peanuts planted 21%, 25% 1979, 30% average. Soybeans planted 20%, 14% 1979, 25% average. Sunflowers planted 24%, 17% 1979, 20% average.

**UTAH:** Rainfall moderate to heavy. Average temperatures ranged from 3° below normal to 4° above.

Soil moisture adequate for good plant development. Fieldwork: 5.3 days suitable. Soil moisture mostly adequate. Cool wet spring delayed fieldwork, slowed crop development. Corn planting nearly two weeks late. Alfalfa and small grains doing well. Wheat 50% jointed, barley 40%, oats 48%. Corn 75% planted, 42% emerged. Warm weather needed to promote growth.

**VIRGINIA:** Temperatures slightly above normal. Heavy rainfall totaling 2.00 in. most areas. Soil temperatures 65 to 74°.

Rain delayed seeding, haying. Topsoil moisture adequate to surplus. Fieldwork: 2.7 days suitable. Planting progress: Corn 86%, 89% 1979, 89% average; soybeans 35%, 29% 1979, 31% usual; peanuts 98%, 80% 1979, 87% average; flue-cured tobacco 55%, 69% 1979, 65% usual; fire-cured tobacco 30%, 40% 1979, 44% average; burley tobacco 5%, 8% 1979, 32% usual; sun-cured tobacco 15%, 32% 1979, 40% average. Pastures, hay, corn, small grains good to excellent. Barley for grain 8% combined, 2% 1979, 1% average. Fruit mostly good. Lush grazing for cattle causing scours, some losses due to bloat. Hay overripening due to rain delayed harvest. Some small grains lodged due to pounding rain.

**WASHINGTON:** West: Volcano eruption 25th. Ash fall not severe. Some lowland flooding. Temperature

averaged 1° below normal. Precipitation averaged 0.1 to 0.7 in. above normal. Vegetable planting continued. Berry bushes, canes in bloom. Vegetable seed fields in bloom. Radish, spinach harvests continue. Hay supplies very short, shipments disrupted.

East: Temperature averaged near normal. Precipitation averaged near normal. Late week rains helped settle ash. Little damage to fruit. Some damage to wheat, alfalfa. Equipment maintenance problems. Corn planting resumed. Asparagus cutting continued. Livestock holding up.

WEST VIRGINIA: Temperatures averaged normal. Extremes: 88 and 38°. Precipitation well above normal.

Soil moisture adequate to surplus. Fieldwork: 1.9 days suitable. Wheat good to fair, 28% pre-jointed, 59% jointed, 13% headed, 46%, 35%, 19% respectively in 1979. Barley good, 16% pre-jointed, 27% jointed, 57% headed, 18%, 31%, and 51% respectively in 1979. Oats good to fair, 89% planted, 75% emerged, 97% and 86% respectively in 1979. Corn fair to good, 70% planted, 38% emerged, 73% and 41% respectively in 1979. Tobacco fair to poor, 90% bedded, 90% emerged and under 1% set, 100%, 93%, 22% respectively in 1979. Pasture good. Hay good to fair, 2% first cutting. Fuels adequate.

WISCONSIN: Temperatures averaged 7° above normal. Extremes: 92 and 29°. Rainfall very light, many areas had none. Amounts ranged 0.10 to 0.20 in.

Fieldwork: 6.0 days suitable. Corn planting 95%, 1979 60%, normal 68%. Early corn up, doing well where moisture sufficient. Soybeans 55% planted, 1979 30%, normal 27%. Need rain for soybean germination. Some oats and other small grains look good where rain fell previous week, other fields uneven where moisture short. Hay growth improved with warm weather but some stands poor due to winterkill and lack of spring rains. First crop hay likely to be shorter than normal. Pasture conditions below normal. Planting of vegetable crops on schedule, early plantings emerged. Apple trees in full bloom North. Early strawberries blossoming. Topsoil moisture supplies mostly short. Streamflow below normal. Fuel supplies adequate. Tobacco plants coming good in beds.

WYOMING: Temperatures much above normal. Precipitation below normal.

Fieldwork 6.0 days suitable. Topsoil moisture adequate. Winter wheat prospects mostly good, starting to head. Acreage planted: Oats 82%; corn 74%; spring wheat 89%; barley 88%; potatoes 30%; dry beans 14%. Acreage emerged: Spring wheat 72%; oats 63%; barley 74%; sugarbeets 82%; corn 28%. Prospects for spring planted small grains, alfalfa mostly good. Summer grazing prospects mostly good. Stock water mostly adequate. Range ewes lambing 67%. Range sheep shorn 81%.

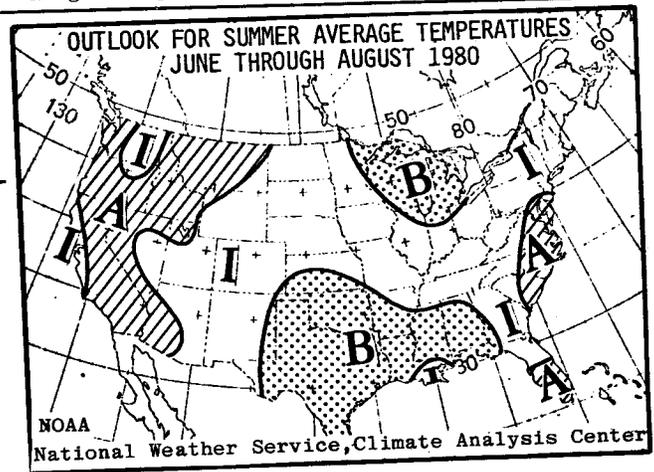
**OUTLOOK FOR SUMMER TEMPERATURE AND RAINFALL  
JUNE THROUGH AUGUST 1980  
NATIONAL WEATHER SERVICE, WASHINGTON, D. C.**

The circulation pattern that has kept the northern Great Plains unusually dry and warm over the last two months is not expected to continue during the summer. Dry soil there may prevent temperatures from falling as much as they otherwise would, however, since it returns the sun's heat directly to the air above without withdrawing much for evaporation.

Several other areas east of the Rockies are expected to get a cooler summer than normal: the southern Great Plains, Gulf Coast states, and western Great Lakes. Temperatures should rise above normal in much of the Far West and Montana, along the Atlantic Coast from Maryland to South Carolina, and in southern Florida. The odds favoring these outcomes are 3 to 2. Temperatures in the remaining areas, including the Northeast, Appalachians, lower Midwest, northern Great Plains, central and southern Rockies, Columbia River Basin and northern California coast, cannot be specified this season.

More rain than usual should occur over a broad swath extending eastward from the southern Great Plains through the Mississippi Valley into the Appalachians and South Carolina. The interior parts of the Northwest are also expected to get a relatively wet summer. Drier conditions than usual should be confined to the far Southwest. The odds on these statements are only 11 to 9. All other areas remain indeterminate.

*Donald L. Gilman*  
Donald L. Gilman  
Climate Analysis Center  
National Meteorological Center



- A** ABOVE NORMAL, 60% CHANCE OF OCCURRENCE
- B** BELOW NORMAL, 60% CHANCE OF OCCURRENCE
- I** INDETERMINATE, 50% CHANCE OF ABOVE NORMAL  
50% CHANCE OF BELOW NORMAL

The two categories Above and Below are to be compared to the long-term average or "normal" temperatures of the year 1941-70. Each category has a natural climatic frequency or probability of 50%. Each carries a 60% probability of occurring where forecast (shaded area), based on the verification scores of twenty-one years of experimental seasonal predictions.

## International Weather and Crop Summary

May 19 - 25

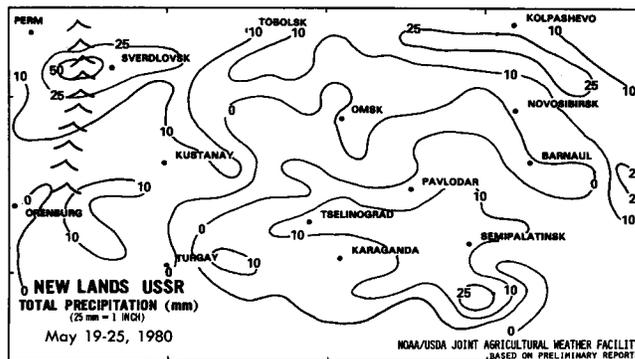
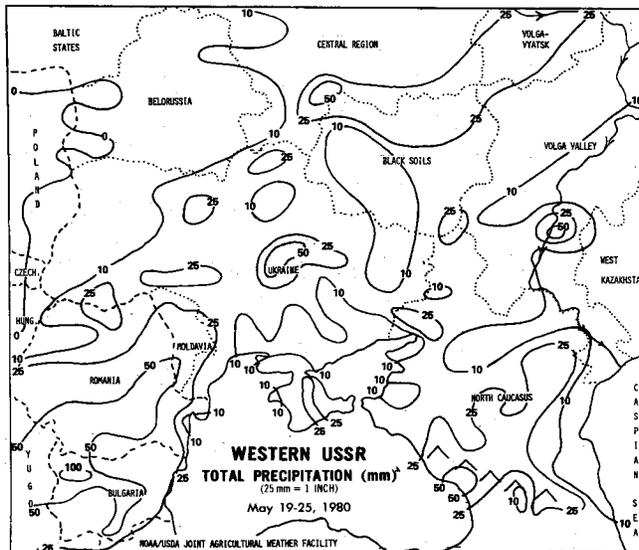
**HIGHLIGHTS:**

- USSR. Winter grains mostly jointing....continued much colder than normal. Sowing spring grains in the New Lands....generally favorable conditions.
- EUROPE. Winter grains jointing in the north, mature in the south\*....too wet in Italy.
- CHINA. Winter grains turning color\*....too wet in many areas. Early rice heading\*....not so wet in many areas.
- INDIA. Planting season near\*....monsoon appears to be advancing in the Bay of Bengal.
- S.E. ASIA. Planting rice and maize\*....abundant rainfall.
- AUSTRALIA. Sowing winter grains\*....generally adequate soil moisture.
- NORTHWESTERN AFRICA. Winter grain harvest nearly complete\*....generally favorable weather.
- ARGENTINA. Harvesting soybeans\*....favorable weather. Sowing wheat in the south\*....soil moisture good.
- BRAZIL. Soybean harvest nearly complete....favorable weather.
- MEXICO. Beans and corn developing in the south....beneficial seasonal increase in rain.
- CANADA. Spring grain sowing nearly complete....beneficial rain in Alberta, moving eastward.

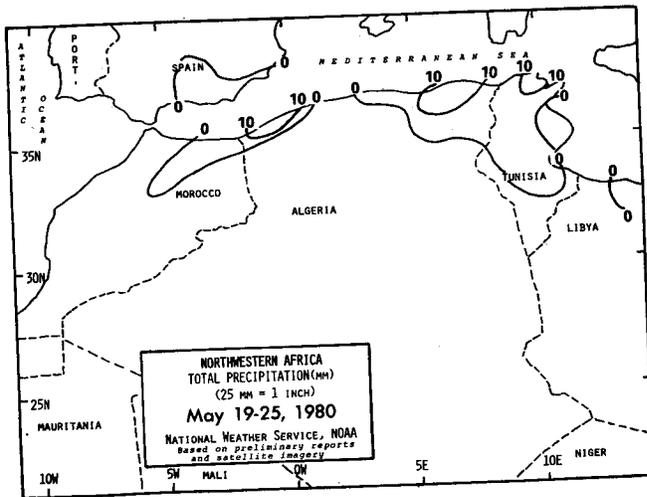
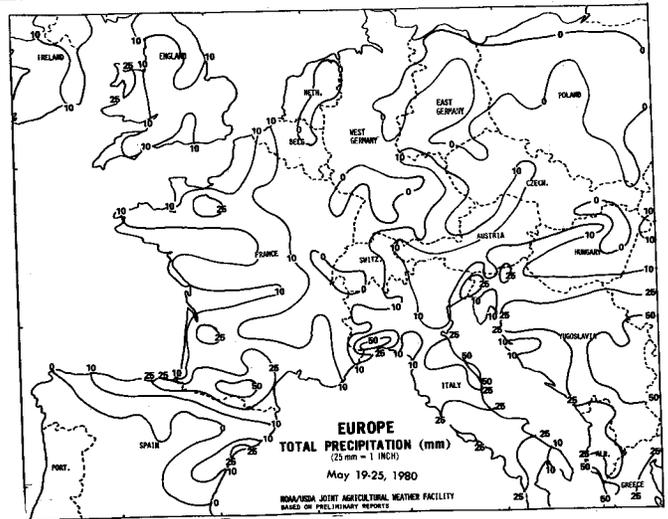
\*Based on normal crop calendar information.

USSR. Temperatures remained about 5°C below normal over much of the winter grain belt, and light frost occurred again in western portions, so crop development was delayed even further. Spring grains were sown nearly on schedule in the Volga Valley, but the cold affected that region as well. Above-normal rains fell in many areas as low pressure systems moved across the Black Sea and turned northward through the western portion of the Volga Valley. With planting of most crops now complete in the Ukraine, this moisture was beneficial, but sunshine is needed to warm conditions and produce more growth. The most favorable conditions exist in the North Caucasus, where temperatures have remained near normal and abundant rainfall has kept soils wetter than normal.

In the New Lands, relatively wet weather occurred in many northern and southern areas, but a substantial band across the region received very little moisture. Most locations had adequate soil moisture as sowing of spring grains continued in full swing; only a limited dry area in the east posed a potential problem for germination.

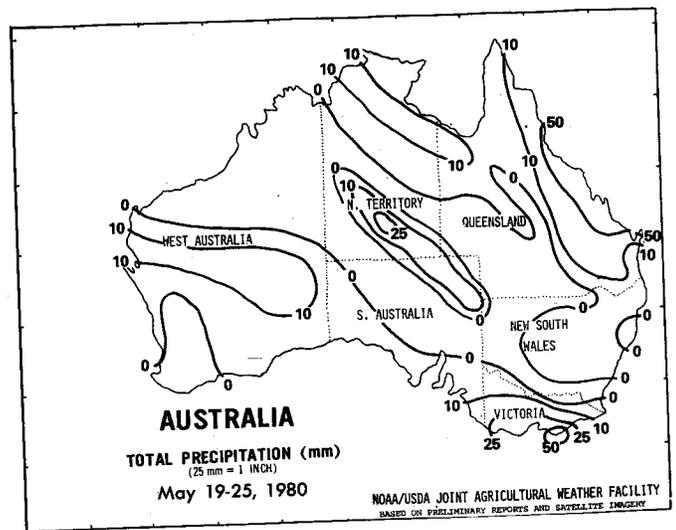


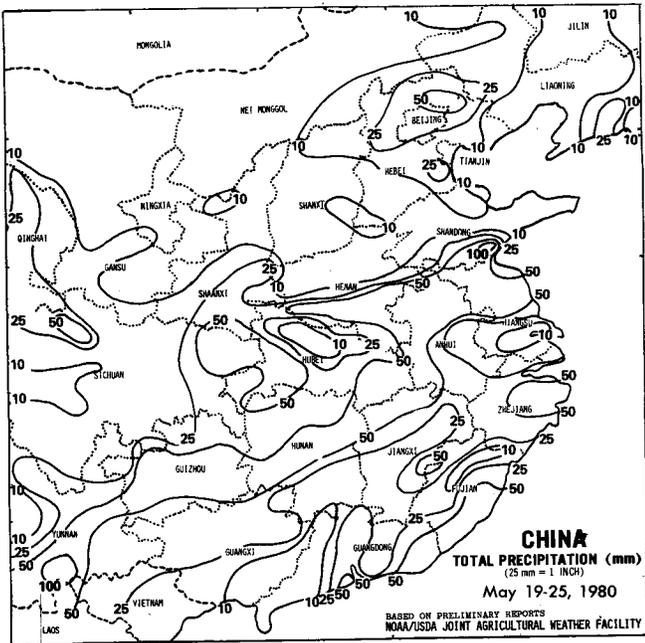
**EUROPE.** Low pressure systems moving across the Mediterranean triggered scattered heavy showers in parts of southern Europe. Heaviest totals fell in the southeastern countries where conditions were already wet due to previous weeks' rainfall, with fieldwork being slowed the most in Romania and Bulgaria. Mostly dry weather across the north probably had little adverse effect, except in England where only some localized areas received slight relief from dry conditions. The weather turned drier over most of Spain as the harvest season approached, but continued above-normal rainfall in Italy maintained unfavorable harvest weather.



**NORTHWESTERN AFRICA.** Only limited areas received substantial rainfall, with dry weather persisting in most winter grain areas. The harvest should be entering the latter stages now.

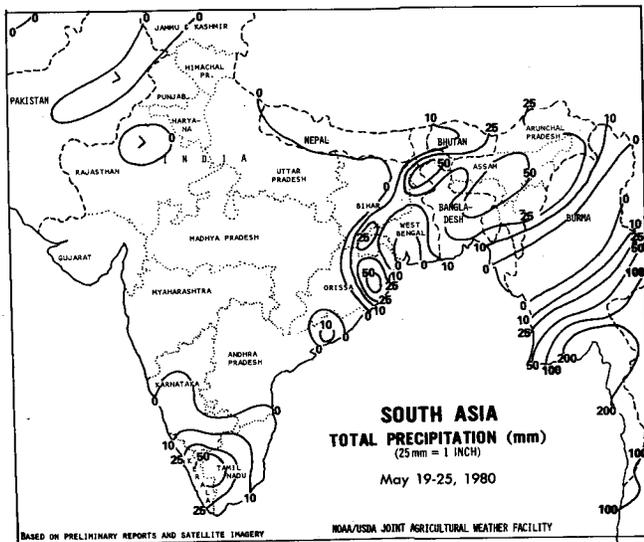
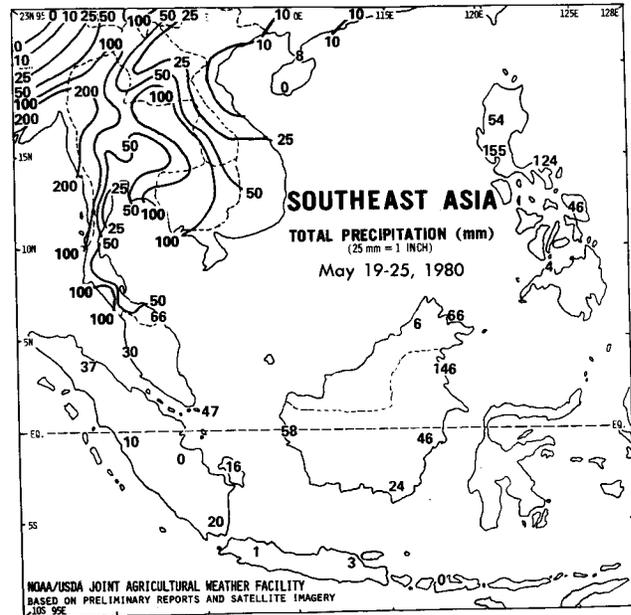
**AUSTRALIA.** Two storms swept across Australia during the week, but rainfall totals were disappointingly low, with most heavier amounts falling in the center of the continent. Winter wheat crop areas in New South Wales received some rain of less than 5 mm, but soils should remain adequately moist for germination and initial development of winter grains.



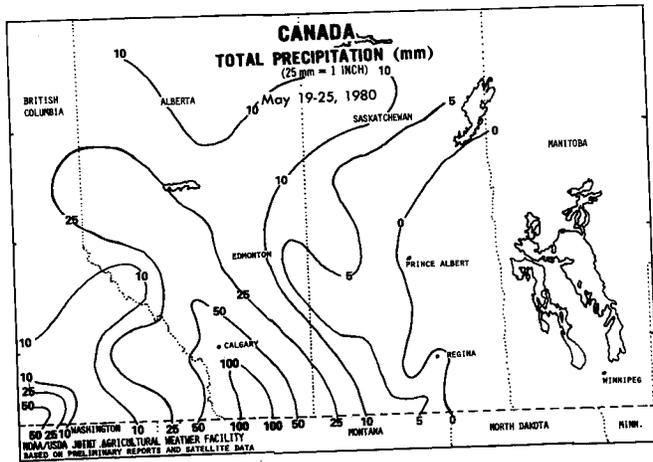


**CHINA.** Moist, unstable air from the Pacific caused numerous heavy showers across southern portions of the winter wheat belt and parts of the rice belt. Wheat should have been nearly ready for harvest in the affected areas, and this second consecutive week of heavy rainfall was not at all beneficial. Drier weather along the Yellow River benefited winter wheat, while abnormally heavy rainfall in the hills north of Beijing replenished irrigation supplies. Tropical storm "Georgia" dissipated along the southeastern coast, dumping 50 to 80 mm rains a short distance inland, but with no negative impacts. Many areas in the south experienced drier than normal weather for the second consecutive week, giving all fields a chance to recuperate from the earlier deluges.

**SOUTHEAST ASIA.** Significant rainfall occurred throughout Thailand's major rice growing area as a tropical disturbance moved in from the west during the week. Totals ranged from about 50 mm near Bangkok to 140 mm in the northern regions supplying reservoirs. This moisture should promote development of the rice and maize crops throughout the region.

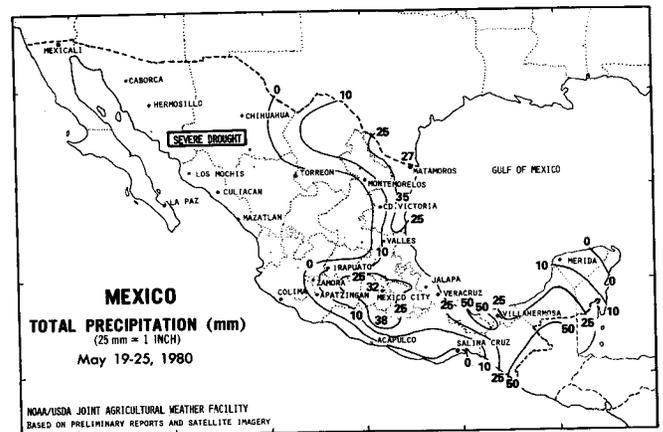


**SOUTH ASIA.** Sporadic showers continued in southern and eastern India, but amounts did not reach normal in many areas. Nevertheless, conditions remain adequately moist so as not to cause any great alarm at this time. Wind flow patterns in the Bay of Bengal suggest that the onset of the monsoon is imminent.



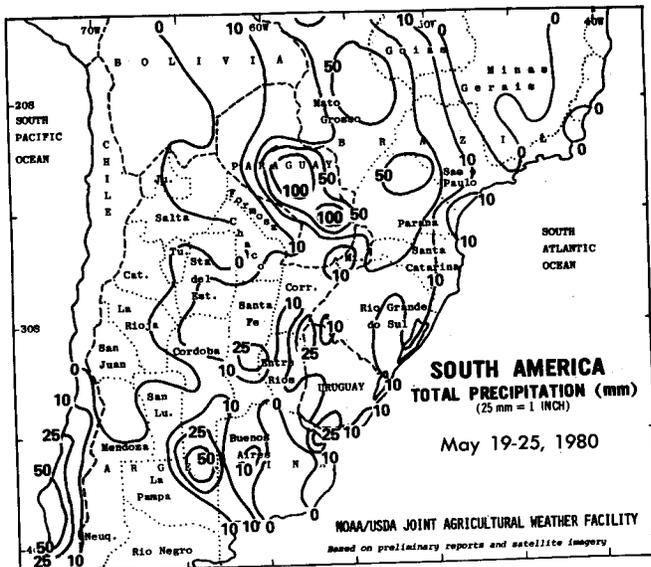
**CANADA.** Clear skies and southerly winds brought unseasonably high temperatures to southern Saskatchewan and southwestern Manitoba early in the week, continuing to inhibit spring grain germination and development. Later in the week, a Pacific cold front moved slowly into the Prairie Provinces. The spring wheat area of Alberta received between 25 and 100 mm of rain; however, further east, only a small part of southwestern Saskatchewan measured up to 25 mm. Eastern Saskatchewan and Manitoba had received no rain by the week's end. Gusty surface winds accompanied the front as it continued slowly eastward.

**MEXICO.** Rains increased seasonably over eastern and southern sections as warm, moist air spread northward. Heavy rainfall (25 to 38 mm) in the southern plateau will benefit corn and beans. Eastern citrus received 10 to 15 mm in the south, up to 25 mm in the central portion, but only 4 to 10 mm in the north with nonirrigated orchards continuing rather dry. Moderate rains in the northeast once again favored grain sorghum and corn. The severe drought, continuing to slowly intensify over the northwest, is hurting rangelands and livestock and reducing yield potential of summer crops.



**MEXICO**  
TOTAL PRECIPITATION (mm)  
(25 mm = 1 INCH)  
May 19-25, 1980

NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY  
BASED ON PRELIMINARY REPORTS AND SATELLITE IMAGERY



**SOUTH AMERICA**  
TOTAL PRECIPITATION (mm)  
(25 mm = 1 INCH)  
May 19-25, 1980

NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY  
Based on preliminary reports and satellite imagery

**SOUTH AMERICA.** Generally favorable weather prevailed for the harvesting of Argentine soybeans. Drier weather moved into southern Buenos Aires Province, providing good conditions for winter grain sowing following abundant rains earlier. In Brazil, near-normal rainfall probably did not disrupt late soybean harvesting in Rio Grande do Sul, where heavier rains had interfered during the past month.

**CROP PROGRESS**

FOR WEEK ENDING MAY 25, 1980

	SOYBEAN % PLANTED		
	1980	1979	AVG.
ALA	35	53	49
ARK	13	13	34
GA	42	62	52
ILL	73	53	57
IND	50	50	45
IOWA	73	52	68
KANS	20	20	25
KY	32	19	28
LA	19	45	46
MICH	35	37	34
MINN	80	35	64
MISS	25	34	34
MO	52	24	42
NEBR	50	30	40
N C	50	48	47
OHIO	55	70	65
S C	34	60	48
TENN	23	16	29
18 STATES	49	41	49

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

	CORN % PLANTED		
	1980	1979	AVG.
COLO	76	87	91
GA	27	27	27
ILL	98	88	86
IND	95	85	75
IOWA	100	92	94
KANS	75	75	85
KY	90	64	75
MICH	80	75	75
MINN	95	70	87
MO	92	79	75
NEBR	95	85	90
N C	100	98	95
OHIO	90	95	90
PA	65	76	73
S DAK	88	61	71
VA	86	89	89
WIS	95	60	68
17 STATES	94	83	85

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

	WINTER WHEAT % HEADED		
	1980	1979	AVG.
CALF	100	100	NA
COLO	17	17	26
IDA	4	0	NA
ILL	70	68	75
IND	25	30	75
KANS	45	55	85
MO	68	66	84
MONT	5	17	17
NEBR	20	17	25
OHIO	25	20	45
OKLA	90	97	98
OREG	53	26	NA
S DAK	0	0	8
TEX	74	99	NA
WASH	12	10	NA
15 STATES	47	53	NA
EXCL. STATES WITH NA	45	49	66

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

	COTTON % PLANTED		
	1980	1979	AVG.
ALA	96	98	96
ARIZ	98	98	NA
ARK	93	95	93
CALF	100	100	NA
GA	27	27	27
LA	74	96	87
MISS	89	97	89
MO	100	80	95
N MEX	95	95	98
N C	99	97	94
OKLA	15	25	35
S C	100	100	27
TENN	94	81	90
TEX	47	55	66
14 STATES	65	71	NA
EXCL. STATES WITH NA	58	65	72

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

	SPRING WHEAT % PLANTED		
	1980	1979	AVG.
IDA	100	100	93
MINN	99	69	90
MONT	100	75	80
N D	90	49	71
S DAK	100	100	99
5 STATES	95	67	81

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

	RICE % PLANTED		
	1980	1979	AVG.
ARK	90	79	91
CALF	91	93	NA
LA	91	95	95
MISS	93	86	86
TEX	100	99	99
5 STATES	92	89	NA

EXCL. STATES WITH NA 93 88 93

THESE 5 STATES PRODUCED 94% OF THE 1979 RICE CROP.

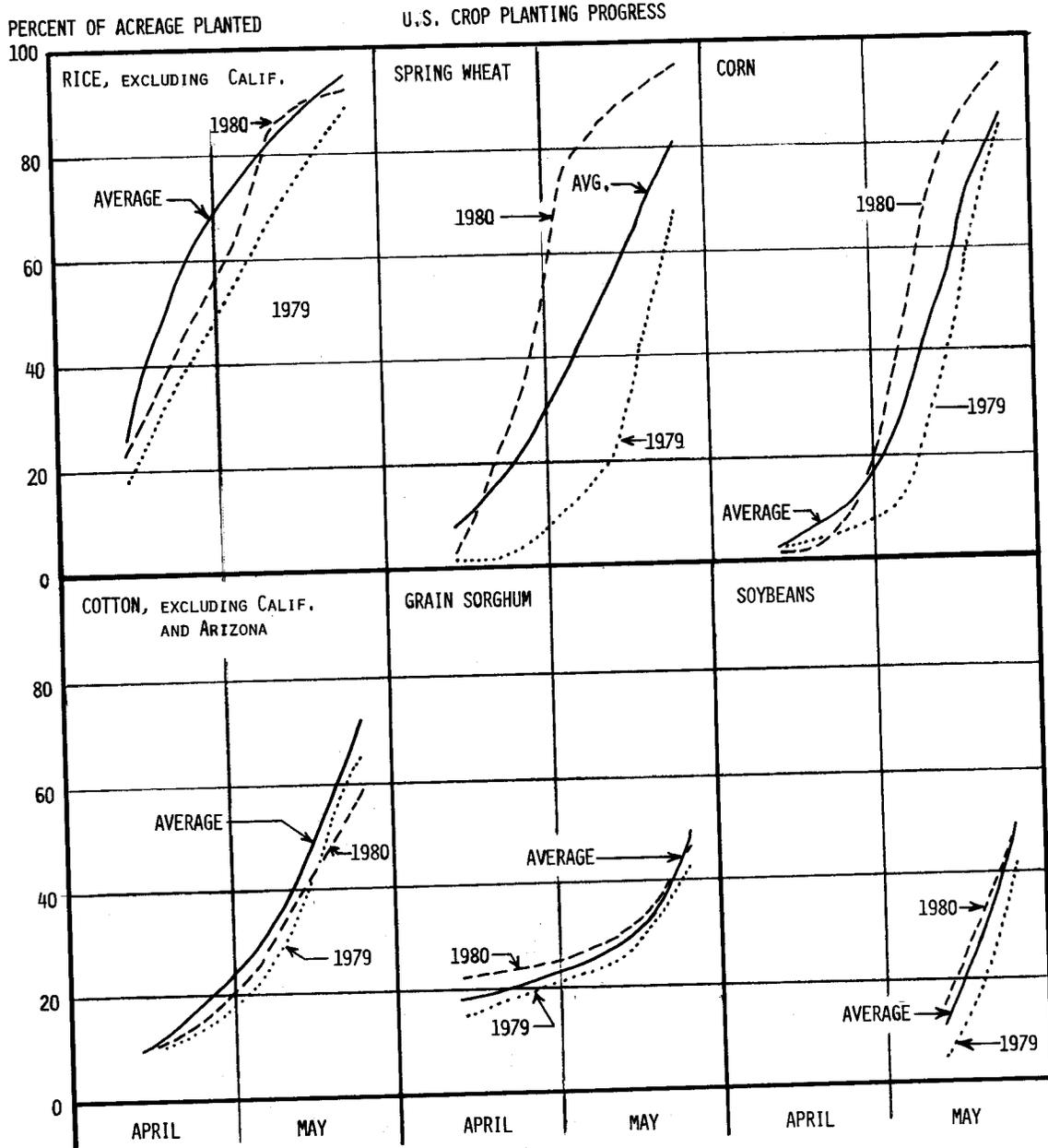
	SPRING WHEAT % EMERGED		
	1980	1979	AVG.
IDA	96	84	NA
MINN	88	29	72
MONT	80	25	NA
N D	66	12	44
S DAK	100	NA	NA
5 STATES	79	NA	NA

	RICE % EMERGED		
	1980	1979	AVG.
ARK	79	NA	NA
CALF	60	66	NA
LA	88	93	95
MISS	83	63	71
TEX	99	92	NA
5 STATES	81	NA	NA

	SORGHUM % PLANTED		
	1980	1979	AVG.
COLO	7	30	27
KANS	20	20	25
MO	60	29	44
NEBR	50	30	45
OKLA	20	25	35
S DAK	35	16	21
TEX	75	76	79
7 STATES	46	42	49

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

1/ LESS THAN 5%  
2/ GREATER THAN 95%  
NA - NOT AVAILABLE



**RICE:** 1980 ... cool and wet April, good weather and soil conditions in May.  
 1979 ... cool in north, wet all sections.

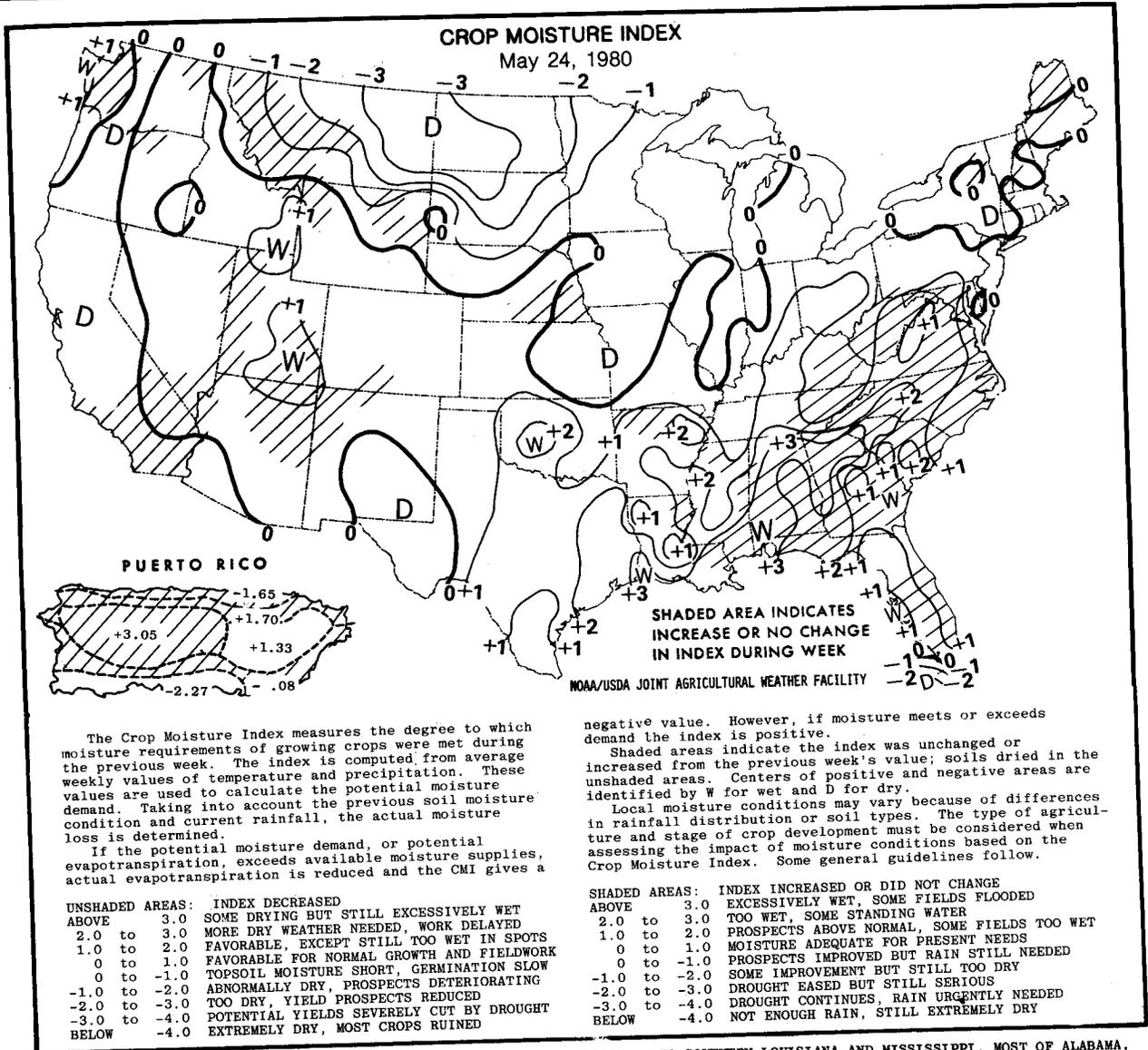
**SPRING WHEAT:** 1980 ... dry, sunny conditions allowed rapid planting, but severe drought restricted germination and growth.  
 1979 ... unusually cold and wet.

**CORN:** 1980 ... dry, sunny conditions allowed rapid planting, but dry topsoil slowed germination.  
 1979 ... cool and damp.

**COTTON:** 1979 and 1980 ... very wet and slightly cool early, planted late.

**GRAIN SORGHUM:** 1980 ... little drier than usual, but also cool soils.  
 1979 ... slightly cool and damp.

**SOYBEANS:** 1980 ... seasonal weather allowed near normal planting.  
 1979 ... wet in Delta and southern Corn Belt.



THE AREAS OF EXCESSIVELY WET SOILS IN THE SOUTH HAVE MOVED EASTWARD TO SOUTHERN LOUISIANA AND MISSISSIPPI, MOST OF ALABAMA, NORTHERN GEORGIA, AND INTO WESTERN SOUTH CAROLINA. LAST WEEK'S WET AREAS IN OKLAHOMA AND TEXAS HAVE DRAINED AND DRIED CONSIDERABLY BUT MORE DRY WEATHER IS NEEDED. THE SEVERE TO EXTREME DROUGHT IN THE NORTHERN PLAINS CONTINUES UNABATED. THE EXCESSIVE HEAT IN THAT AREA FURTHER DEPLETED MOISTURE FROM ALREADY VERY DRY SOILS.

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## CONTENTS

	PAGE
NATIONAL WEATHER SUMMARY	1
NATIONAL AGRICULTURAL SUMMARY	3
WEATHER DATA FOR SELECTED CITIES	4
STATE SUMMARIES OF WEATHER AND AGRICULTURE	7
TOTAL GROWING DEGREE DAYS MAP	9
SEASONAL OUTLOOK JUNE-AUGUST 1980	12
INTERNATIONAL WEATHER AND CROP SUMMARY	13
CROP PROGRESS TABLES	17
U.S. CROP PLANTING PROGRESS TABLES	18
CROP MOISTURE INDEX MAP	19

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