

# WEEKLY WEATHER AND CROP BULLETIN

U.S. DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration,  
National Weather Service

U.S. DEPARTMENT OF AGRICULTURE  
Statistical Reporting Service  
and World Agricultural Outlook Board

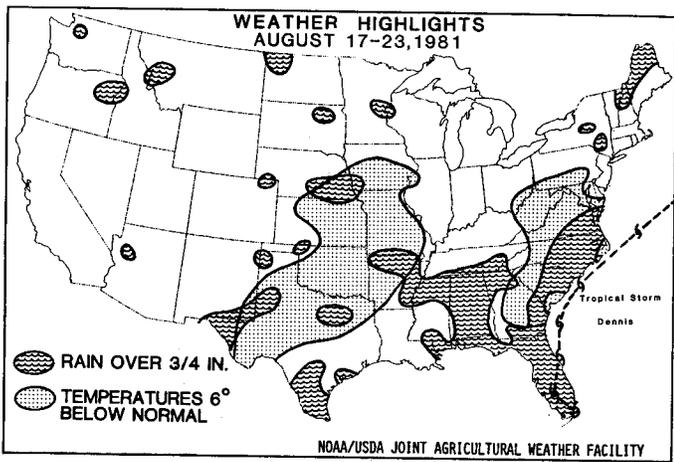
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Aug. 25, 1981

## National Weather Summary

August 17-23, 1981



Storm Dennis was off the coast of the Carolinas and beginning to turn more northeastward. Heavy showers accompanied by high tides and pounding surf extended along the coast from the Carolinas to southern Maryland. Lighter showers covered all of the Southeast. Showers and thunderstorms were over the Pacific Northwest.

**THURSDAY...** Tropical Storm Dennis continued to drop rain over the coast of North Carolina before moving out to sea by midday. A frontal wave along the northeastern gulf coast caused showers and thunderstorms throughout Florida and northward into Kentucky. Showers and thunderstorms occurred in Washington, and the northern Rockies and their eastern slopes. Cool weather prevailed over most of the East.

**FRIDAY...** The low pressure system from the Gulf of Mexico moved northeastward and spread showers and thunderstorms through the Southeast and as far north as Kentucky and southern Virginia. Showers and thunderstorms spread through the central and northern Rockies and moved into the northern Plains. The East remained cool but the western portion of the Plains and the Rockies rose well into the nineties.

**SATURDAY...** The storm from the Gulf of Mexico followed in the wake of Tropical Storm Dennis and spread rain through Florida and along the east coast to Delaware. A cool front through the Plains relieved some of the hot weather and spread showers and thunderstorms to Minnesota, Nebraska, central Kansas, and to central New Mexico.

**SUNDAY...** The slow-moving cool front scattered showers and thunderstorms from the southwestern corner of Oklahoma through western Missouri into the Dakotas and Minnesota. In the Southeast, thunderstorms were scattered from the Lower Mississippi Valley to Florida and were widely scattered into Kentucky and up the east coast to South Carolina. Cool weather remained in the East.

**HIGHLIGHTS:** Tropical Storm Dennis meandered slowly through southern Florida, accelerated northward, then northeastward. Heavy rains inundated southern Florida but the heavy rain was confined to coastal areas as the storm moved northward. Later, a cold front moved into the Gulf of Mexico and Texas, causing some heavy thunderstorms in that state and less severe storms through the rest of the South as far north as Kentucky. Another cold front spread showers and thunderstorms from the central and northern Rockies to northwestern Missouri and the northern Mississippi Valley. Average temperatures were quite cool from the Texas Panhandle to Lake Michigan and eastward. Some areas were as much as 10° cooler than normal.

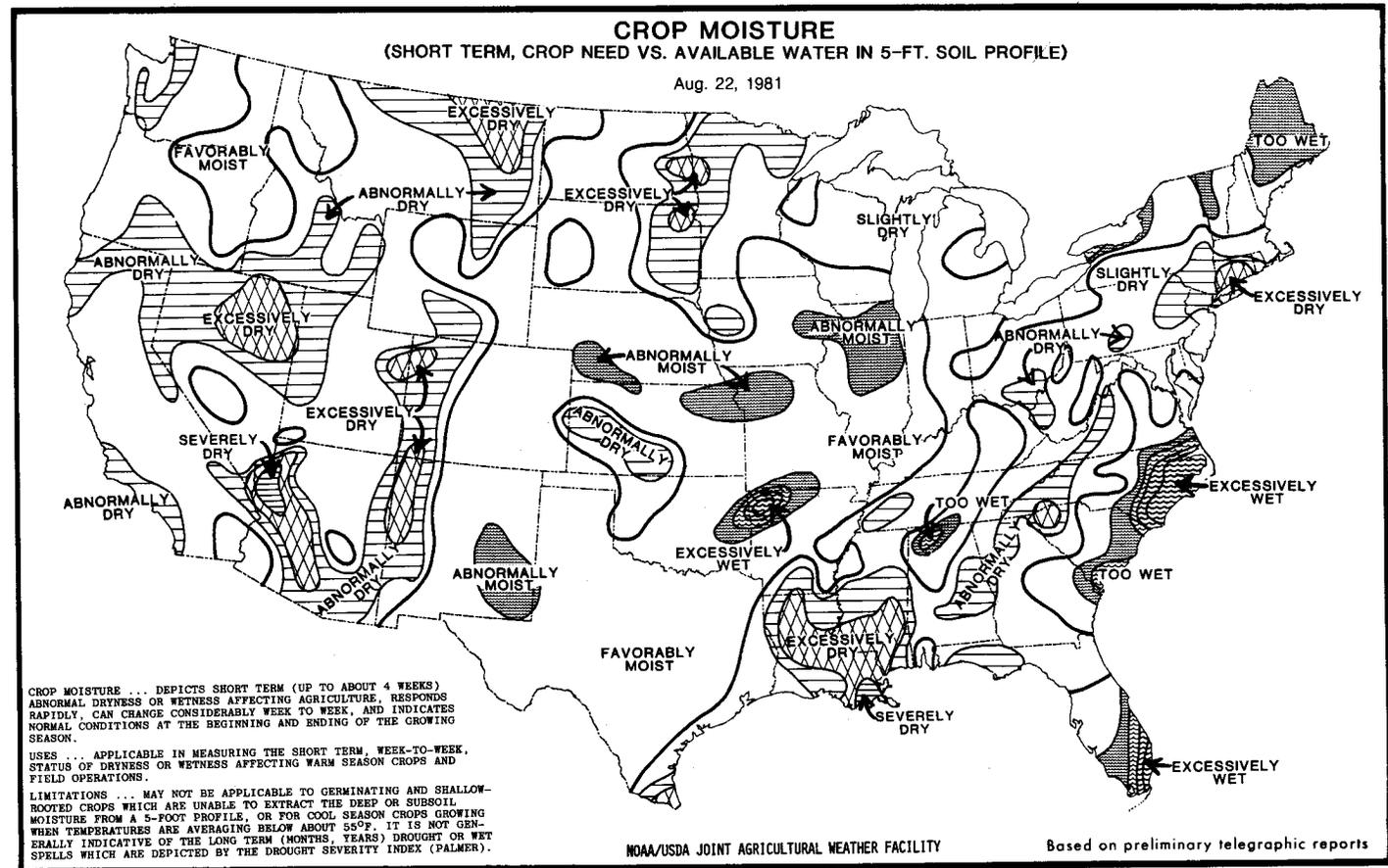
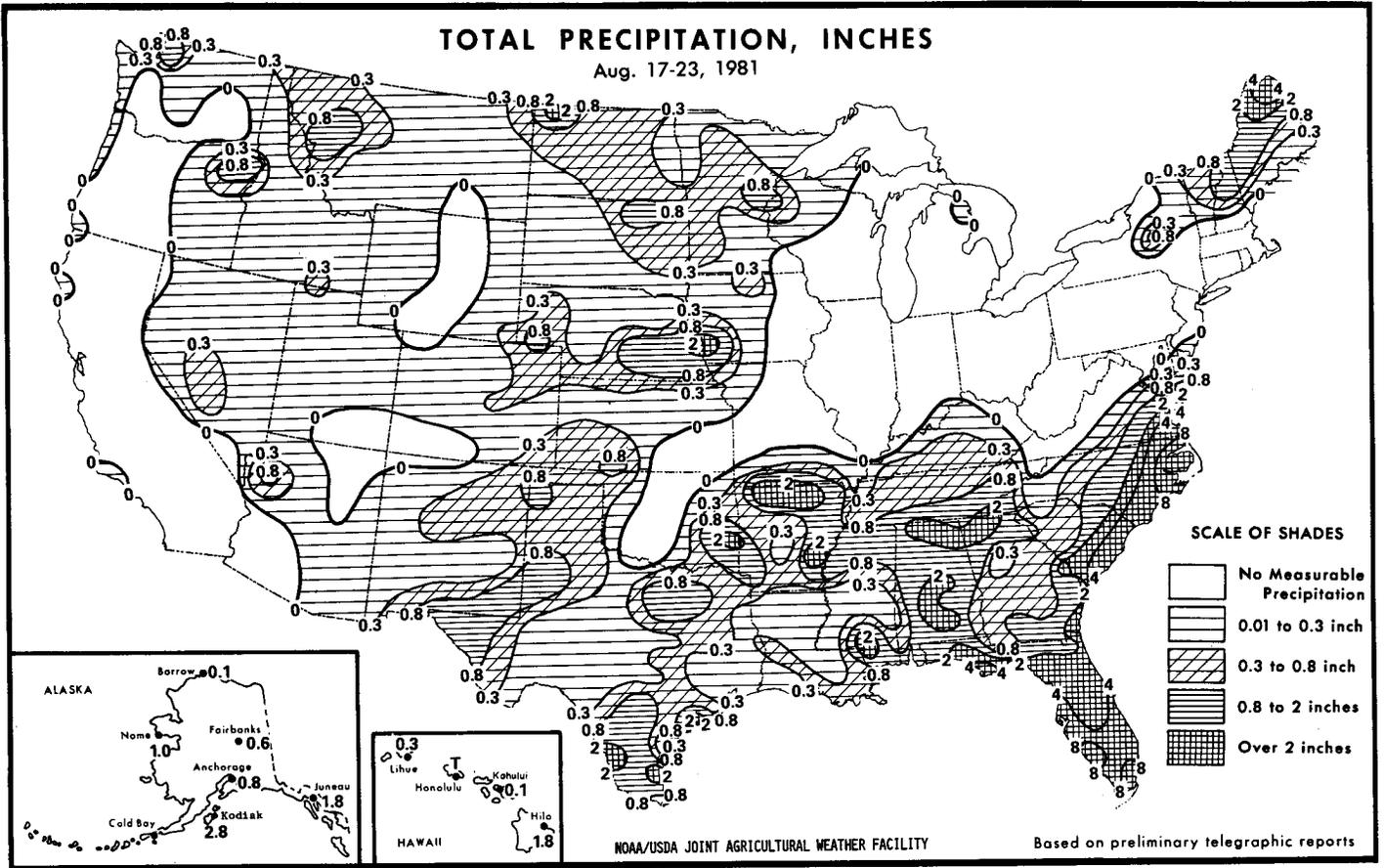
**MONDAY...** Unseasonably cool air brought record low temperatures to the Great Lakes area while to the south a frontal system spread showers and thunderstorms from eastern New Mexico across the South. Tropical Storm Dennis moved over southern Florida and brought heavy rain to the southern tip and the southeastern coast.

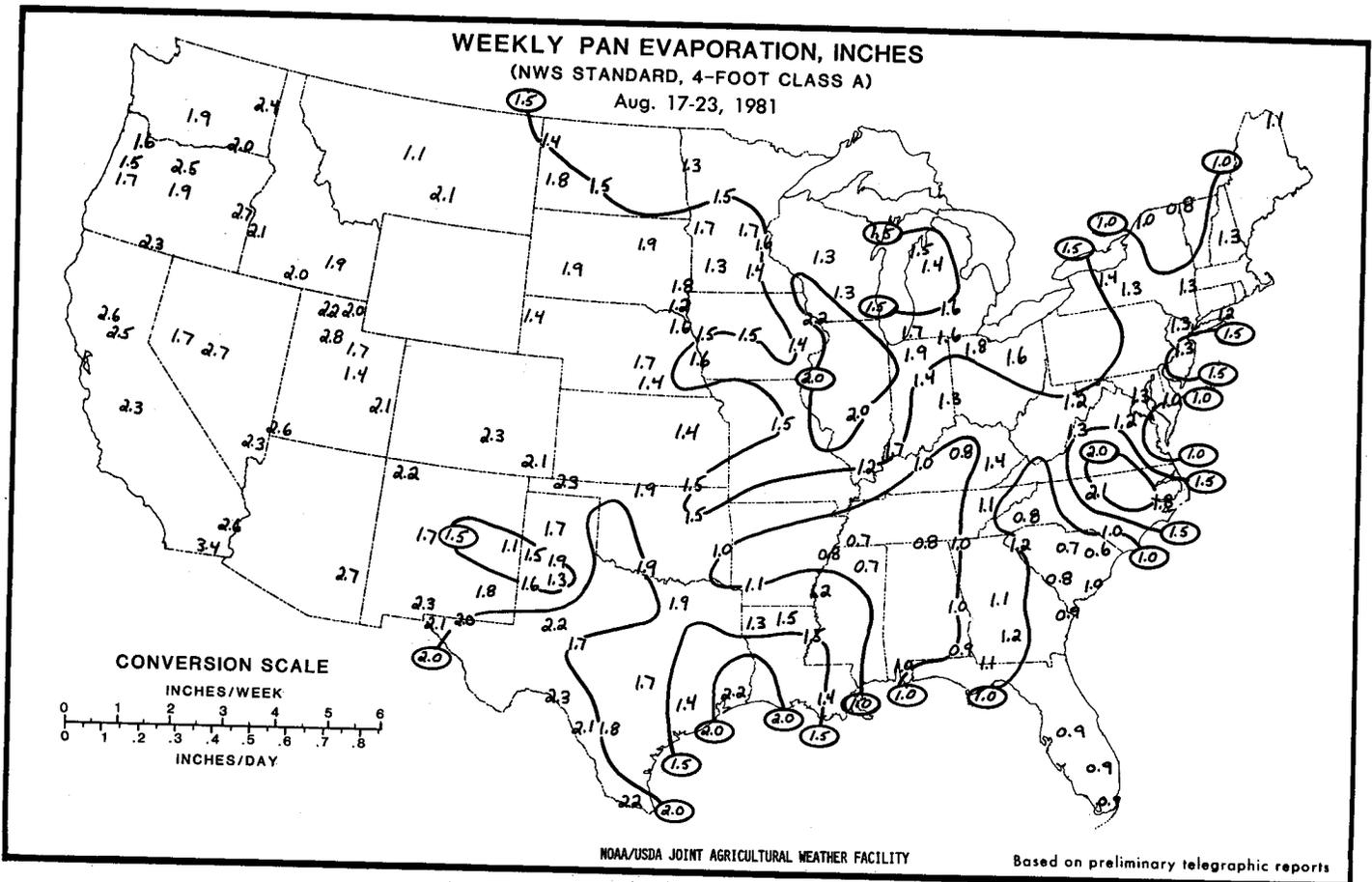
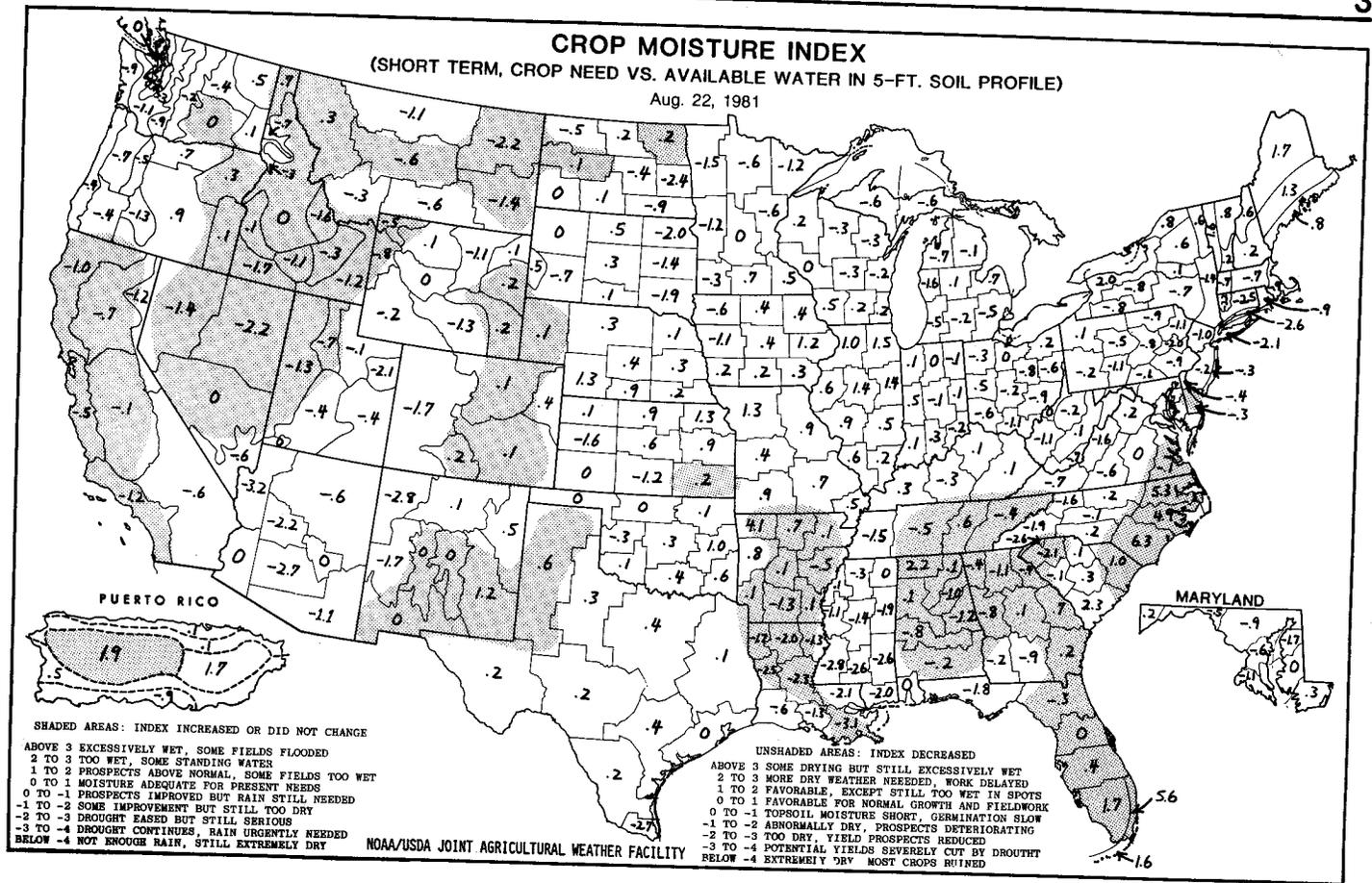
**TUESDAY...** The chilly weather spread into the Northeast and southward. Record cool temperatures were reached from North Carolina to New York and Michigan and from Missouri through the Ohio Valley. The frontal system along the gulf coast was responsible for showers and thunderstorms from central Texas through Georgia and North Carolina and northward into Kentucky. Tropical Storm Dennis moved into the Atlantic off the northern coast of Florida. Heavy rain fell along the east coast of Florida but inland areas had only light showers.

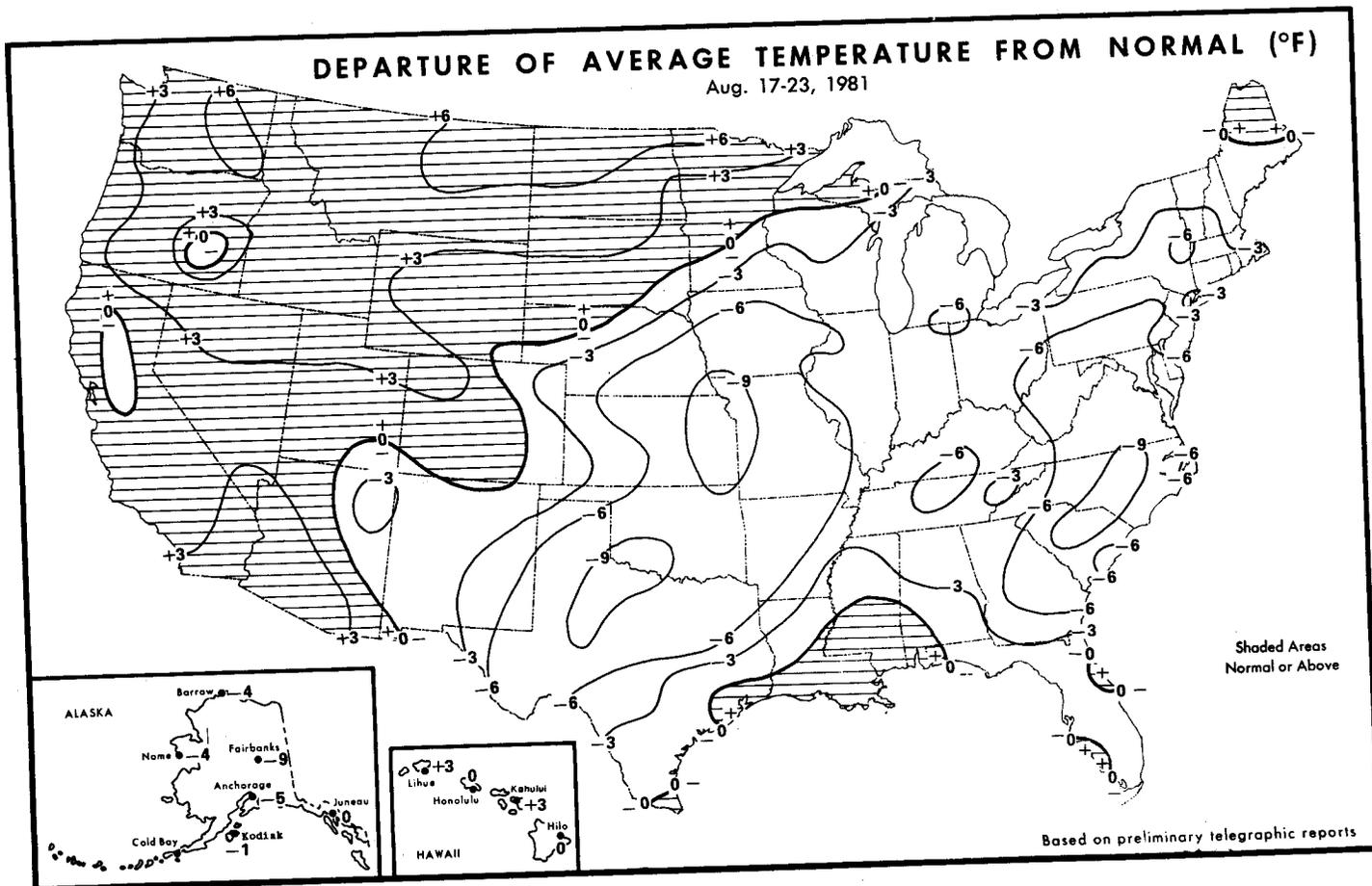
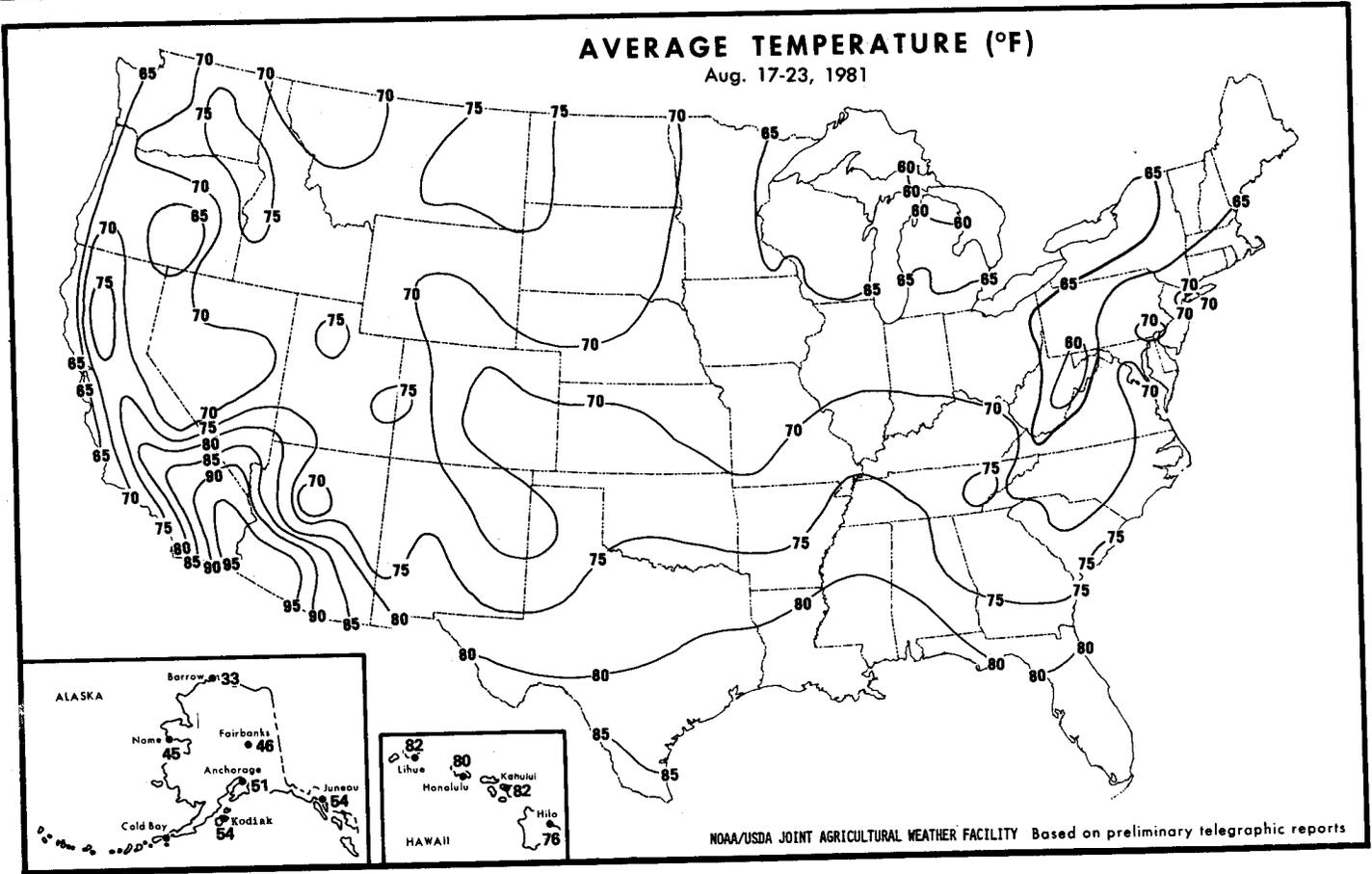
**WEDNESDAY...** A broad area of high pressure continued to bring unseasonably cool temperatures to the northeastern quarter of the Nation. Tropical

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Weather Data for the Week Ending Aug. 23, 1981

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE June 1	PCT. NORMAL SINCE June 1	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE		PRECIPITATION	
																90 AND ABOVE	52 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	82	69	90	66	75	-4	1.9	-.9	1.5	10.1	81	28.5	77	91	65	1	0	3	1
MOBILE	91	76	96	73	83	-2	.8	-.7	.5	17.8	88	44.3	94	94	57	5	0	4	1
MONTGOMERY	84	73	93	71	79	-2	.9	-.2	.8	10.2	87	33.1	98	90	59	2	0	0	1
AK ANCHORAGE	59	42	63	16	51	-5	.8	-.3	.4	9.8	196	12.9	163	90	66	0	1	4	0
BARROW	36	30	43	25	33	-4	.1	-.1	.1	2.8	133	--	--	99	85	0	5	3	0
FAIRBANKS	58	33	68	27	46	-9	.6	-.1	.3	5.6	112	7.1	96	97	49	0	4	4	0
JUNEAU	60	47	67	38	54	0	1.8	-.7	.7	9.9	88	26.3	92	94	69	0	0	4	0
KODIAK	58	49	62	44	54	-1	2.8	1.8	1.9	8.3	77	44.9	137	99	79	0	0	6	2
NOME	54	37	58	30	45	-4	1.0	-.2	.7	5.8	97	11.2	114	85	48	0	2	2	1
AZ FLAGSTAFF	80	50	82	48	65	2	.2	-.4	.2	6.9	135	15.7	126	91	32	0	0	0	0
PHOENIX	108	86	111	81	97	8	0	-.3	0	1.3	72	4.4	105	40	18	7	1	0	0
TUCSON	99	75	102	72	87	3	T	-.4	T	7.2	163	12.2	179	52	19	7	1	0	0
WINSLOW	93	60	97	57	77	1	T	-.3	T	4.0	143	6.1	115	--	--	7	0	1	0
YUMA	110	83	113	82	96	4	0	-.1	0	.3	50	1.4	70	54	21	7	0	0	0
AR FORT SMITH	82	64	85	60	73	-8	-6	-.6	.6	12.6	135	28.5	99	96	56	0	0	1	1
LITTLE ROCK	82	66	86	64	74	-6	.2	-.4	.2	9.2	110	31.8	98	92	63	0	0	2	0
CA BAKERSFIELD	95	69	103	62	82	1	0	0	0	0	0	4.4	110	57	23	5	0	0	0
EUREKA	64	55	70	53	60	2	T	-.1	T	.6	55	19.0	80	94	75	0	1	0	0
FRESNO	95	63	102	59	79	2	0	0	0	0	0	7.5	107	79	25	6	0	0	0
LOS ANGELES	77	65	81	63	71	2	0	0	0	0	0	6.6	84	83	60	0	0	0	0
RED BLUFF	94	62	102	57	78	-1	0	-.1	0	T	+100	6.6	84	83	60	0	0	0	0
SAN DIEGO	81	70	85	70	76	4	0	0	0	T	0	16.3	118	68	22	6	0	0	0
SAN FRANCISCO	70	55	76	53	63	0	T	0	T	+100	8.5	142	85	63	0	0	0	0	0
STOCKTON	89	57	96	55	73	-2	0	0	0	0	0	12.2	99	86	52	0	0	0	0
CO DENVER	88	58	94	53	73	2	T	-.2	T	2.7	59	10.5	90	78	23	3	0	1	0
GRAND JUNCTION	91	62	94	57	76	1	T	-.3	T	.9	50	4.8	100	54	19	5	0	1	0
PUEBLO	88	60	93	56	74	0	T	-.4	T	3.5	70	5.8	60	89	34	2	0	1	0
CT BRIDGEPORT	79	56	84	43	67	-5	T	-.8	T	6.8	76	17.8	72	75	38	0	0	0	0
HARTFORD	80	53	83	51	66	-3	0	-.9	0	6.1	62	19.0	69	78	31	0	0	0	0
DC WASHINGTON	80	62	85	58	71	-6	0	0	0	0	0	11.3	101	21.9	84	83	44	0	0
FL APALACHICOLA	87	73	95	70	80	-1	4.7	2.9	3.3	19.7	104	28.5	76	96	73	3	0	5	3
DAYTONA BEACH	88	75	94	73	82	1	2.8	1.2	1.2	10.0	54	20.8	65	93	65	1	0	7	2
FORT MYERS	90	77	95	74	84	1	8.4	6.7	4.0	32.4	139	39.3	109	83	58	5	0	6	3
JACKSONVILLE	87	72	92	70	79	-2	1.9	-.1	1.3	10.8	56	23.7	66	97	69	2	0	5	1
KEY WEST	87	79	90	75	83	-2	3.9	2.9	2.0	10.5	91	14.9	69	96	81	3	0	4	2
MIAMI	89	75	91	72	81	-2	6.9	5.4	2.8	19.2	92	30.9	84	98	67	2	0	7	3
ORLANDO	87	74	94	74	82	-1	2.0	-.5	.8	20.5	100	29.2	83	97	65	4	0	6	1
TALLAHASSEE	84	73	95	71	79	-2	.4	-1.0	.2	14.4	69	36.1	83	97	68	2	0	4	0
TAMPA	87	73	92	72	80	-2	4.2	2.4	2.2	16.6	79	25.8	74	98	69	3	0	3	2
WEST PALM BEACH	88	74	94	70	81	-2	6.6	5.0	3.7	17.5	90	30.8	86	94	66	4	0	5	3
GA ATLANTA	80	67	86	63	73	-4	.1	-.7	.1	7.7	68	25.1	74	90	65	0	0	2	0
AUGUSTA	78	65	86	62	72	-8	.5	-.4	.4	13.4	113	29.6	96	99	64	0	0	3	0
MACON	80	68	93	64	74	-7	.4	-.4	.2	14.3	128	32.8	103	90	65	1	0	3	0
SAVANNAH	79	69	92	66	74	-7	1.8	-.4	1.4	18.0	96	29.8	83	96	73	1	0	6	2
HI HILO	83	70	84	68	76	0	1.8	-.7	.6	14.2	60	--	--	87	60	0	0	6	1
HONOLULU	87	74	89	73	80	0	T	-.2	T	1.1	73	5.5	39	83	51	0	0	0	0
KAHULUI	89	75	91	71	82	3	.1	0	.1	.7	70	--	--	76	46	3	0	1	0
LIHUE	89	74	90	73	82	3	.3	-.2	.1	6.2	119	--	--	86	55	2	0	3	0
ID BOISE	93	57	97	48	75	4	.1	-.1	.1	1.0	62	9.0	114	58	14	5	0	2	0
LEWISTON	94	60	103	53	77	6	T	-.1	T	2.8	93	8.9	101	58	19	5	0	1	0
POCATELLO	91	54	96	47	72	3	.2	-.1	.2	1.3	59	8.9	124	63	16	4	0	2	0
IL CAIRO	83	66	87	65	75	-4	0	-.8	0	13.1	128	31.6	97	--	--	0	0	0	0
CHICAGO	78	55	82	51	67	-4	T	-.6	T	13.8	141	28.8	131	99	44	0	0	0	0
MOLINE	79	52	84	47	65	-7	0	-.7	0	13.3	116	22.6	91	94	46	0	0	0	0
PEORIA	79	57	83	53	68	-5	0	-.7	0	17.9	183	33.0	136	91	50	0	0	0	0
ROCKFORD	79	53	82	48	66	-5	0	-.8	0	11.6	101	22.0	89	96	48	0	0	0	0
SPRINGFIELD	80	57	85	54	69	-5	0	-.6	0	23.5	235	39.0	163	96	49	0	0	0	0
IN EVANSVILLE	83	63	87	60	73	-3	0	-.6	0	9.6	101	30.1	102	82	52	0	0	0	0
FORT WAYNE	80	54	83	49	67	-4	0	-.6	0	11.7	117	25.9	104	82	34	0	0	0	0
INDIANAPOLIS	82	57	84	55	69	-4	0	-.6	0	8.3	84	28.0	104	81	38	0	0	0	0
SOUTH BEND	79	53	82	47	66	-5	0	-.7	0	11.4	115	27.1	112	95	42	0	0	0	0
IA BURLINGTON	79	55	85	53	67	-6	0	-.8	0	18.8	174	31.2	132	85	46	0	0	0	0
DES MOINES	78	56	85	53	67	-6	.1	-.6	.1	15.2	140	21.6	96	88	49	0	0	1	0
DUBUQUE	76	55	80	48	65	-5	0	-.9	0	14.3	114	24.2	89	93	50	0	0	0	0
KS SIoux CITY	79	55	87	50	67	-6	.2	-.5	.2	9.1	92	14.1	75	85	50	0	0	1	0
CONCORDIA	79	58	87	54	68	-8	.2	-.5	.2	16.3	155	26.7	134	94	49	0	0	1	0
DODGE CITY	87	62	95	58	74	-3	.5	-.1	.3	8.9	105	17.6	111	80	36	2	0	2	0
GOODLAND	85	56	92	51	70	-3	T	-.5	T	3.0	42	19.7	152	88	33	1	0	1	0
TOPEKA	78	55	83	50	67	-10	T	-1.0	T	18.4	138	28.5	114	95	43	0	0	1	0
WICHITA	84	60	92	56	72	-7	T	-.7	T	7.7	69	17.2	80	86	42	2	0	0	0
KY LEXINGTON	79	60	83	57	70	-5	.3	-.5	.2	9.7	81	26.4	82	94	56	0	0	2	0
LOUISVILLE	83																		

Weather Data for the Week Ending Aug. 23, 1981

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE June 1	PCT. NORMAL SINCE June 1	TOTAL, IN., SINCE (Jan. 1)	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
LAKE CHARLES	91	73	94	70	82	0	T	-1.0	T	23.8	156	38.0	102	92	53	5	0	2	0
NEW ORLEANS	93	76	97	73	84	2	.6	-.6	.3	15.6	103	35.3	91	94	60	7	0	3	0
SHREVEPORT	89	69	92	65	79	-4	.1	-.6	.1	9.4	116	29.8	98	94	50	3	0	2	0
ME CARIBOU	76	52	84	48	64	3	7.4	6.6	6.7	19.0	186	32.1	145	86	42	0	0	3	2
PORTLAND	76	53	83	48	65	-1	T	-.6	T	12.6	164	27.8	110	84	43	0	0	0	0
MA BALTIMORE	79	57	84	51	68	-6	T	-.9	T	11.3	101	21.6	81	78	39	0	0	0	0
BOSTON	77	60	82	56	68	-2	T	-.8	T	6.2	74	18.6	70	79	41	0	0	0	0
CHATHAM	71	59	74	57	65	-3	T	-.8	T	9.4	---	25.4	---	81	61	0	0	0	0
MI ALPENA	78	42	85	37	60	-3	T	-.6	T	5.0	67	13.0	73	100	35	0	0	1	0
DETROIT	79	53	83	46	66	-4	0	-.8	0	8.5	93	19.0	87	80	35	0	0	0	0
FLINT	78	48	82	42	63	-5	0	-.8	0	8.2	92	19.0	94	92	37	0	0	0	0
GRAND RAPIDS	82	51	85	46	66	-3	0	-.6	0	8.6	101	26.7	127	93	32	0	0	0	0
HOUGHTON LAKE	77	45	80	40	61	-4	0	-.5	0	11.5	140	21.2	116	97	38	0	0	0	0
LANSING	82	46	86	41	64	-5	0	-.7	0	5.1	61	18.0	87	97	37	0	0	0	0
MARQUETTE	75	48	82	36	62	0	0	-.8	0	9.1	87	21.2	94	95	42	0	0	0	0
MUSKEGON	79	51	82	45	65	-4	0	-.6	0	6.4	98	17.5	90	94	40	0	0	0	0
SAULT STE. MARIE	75	43	77	33	59	-4	0	-.7	0	8.6	104	17.4	93	98	44	0	0	0	0
MN DULUTH	74	53	80	39	63	0	.3	-.6	.1	11.6	105	20.0	96	95	59	0	0	2	0
INT'L FALLS	81	57	84	47	69	6	.1	-.7	T	7.3	70	13.0	74	93	55	0	0	3	0
MINNEAPOLIS	77	56	83	49	67	-3	.2	-.5	.2	10.7	107	18.1	97	87	48	0	0	2	0
ROCHESTER	75	51	81	44	63	-5	0	-.8	0	16.5	149	24.5	124	92	51	0	0	0	0
SAINT CLOUD	78	53	80	41	66	-2	.2	-.7	.2	9.3	87	16.8	86	85	47	0	0	2	0
MS JACKSON	89	72	94	67	81	0	T	-.8	T	12.5	119	30.9	90	93	55	3	0	1	0
MERIDIAN	91	72	100	67	82	1	.1	-.8	T	7.1	59	29.9	82	91	55	3	0	2	0
MO COLUMBIA	81	58	87	54	69	-6	0	-.7	0	20.5	192	37.0	145	90	50	0	0	0	0
KANSAS CITY	78	57	83	52	68	-9	T	-.8	T	17.8	142	31.4	123	98	47	0	0	0	0
SAINT LOUIS	81	60	87	59	71	-6	0	-.6	0	17.6	171	33.6	135	96	43	0	0	0	0
SPRINGFIELD	81	57	87	55	69	-7	T	-.6	T	14.0	135	28.2	105	94	51	0	0	1	0
MT BILLINGS	90	59	95	55	75	5	T	-.3	T	3.7	90	13.6	135	69	23	4	0	1	0
GLASGOW	90	61	95	52	75	7	.1	-.2	.1	3.9	69	6.7	75	69	23	4	0	1	0
GREAT FALLS	86	54	93	46	70	3	.6	-.3	.5	3.1	60	11.6	103	73	22	3	0	3	1
HAVRE	88	57	94	48	73	5	.2	-.1	.1	4.0	85	7.5	85	85	21	4	0	2	0
HELENA	87	53	91	47	70	5	T	-.2	T	2.8	70	11.1	139	73	23	1	0	2	0
KALISPELL	84	47	93	42	66	4	.4	0	.4	5.1	109	14.4	127	85	27	2	0	1	0
MILES CITY	90	63	98	53	76	5	.1	-.2	.1	4.1	71	7.6	72	74	27	3	0	1	0
MISSOULA	86	50	94	44	68	4	1.0	-.8	1.0	5.0	132	12.1	132	79	23	2	0	1	1
NE GRAND ISLAND	80	57	87	54	69	-6	1.2	-.6	.8	7.8	81	16.9	93	91	51	0	0	2	1
LINCOLN	79	55	86	50	67	-8	1.2	-.3	1.2	8.9	82	16.0	81	94	54	0	0	1	1
NORFOLK	81	57	88	53	69	-4	.3	-.4	.3	10.6	106	16.1	87	91	48	0	0	1	0
NORTH PLATTE	81	57	88	54	69	-4	.1	-.4	.1	9.9	118	20.8	135	95	52	0	0	1	0
OMAHA	78	58	85	52	68	-6	2.1	1.1	2.1	11.9	102	18.9	87	88	55	0	0	1	1
NV VALENTINE	86	60	95	56	73	1	T	-.5	T	10.0	125	14.1	99	86	39	2	0	1	0
ELY	87	47	90	41	67	2	T	-.1	T	.4	22	5.9	109	63	16	1	0	1	0
LAS VEGAS	104	76	107	73	90	3	T	-.1	T	.2	22	2.4	89	32	14	7	0	0	0
RENO	89	47	93	40	68	2	T	0	T	.3	27	2.8	58	74	13	4	0	1	0
WINNEMUCCA	94	48	99	40	71	4	T	0	T	0	0	4.1	76	47	10	7	0	1	0
NR CONCORD	79	49	84	43	64	-3	0	-.7	0	10.2	117	26.0	116	94	39	0	0	0	0
NJ ATLANTIC CITY	79	56	83	52	67	-6	.2	-.9	.2	9.4	80	24.5	82	91	42	0	0	1	0
TRENTON	78	59	81	58	69	-5	0	-1.1	0	9.7	87	22.7	84	85	37	0	0	0	0
NM ALBUQUERQUE	89	61	91	60	75	-1	.7	-.4	.6	3.0	100	5.4	102	78	28	4	0	2	1
ROSWELL	85	62	89	60	73	-4	T	-.4	T	15.5	360	20.4	283	89	39	0	0	1	0
NY ALBANY	79	48	83	40	64	-6	0	-.6	0	7.8	96	18.1	86	89	41	0	0	0	0
BINGHAMTON	76	52	80	46	64	-3	0	-.8	0	6.9	70	17.6	72	82	37	0	0	0	0
BUFFALO	77	55	81	49	66	-1	T	-.8	T	10.9	138	22.8	103	87	40	0	0	0	0
NEW YORK	82	64	87	60	73	-1	0	-1.0	0	8.5	82	21.8	80	68	30	0	0	0	0
ROCHESTER	79	53	82	49	66	-3	T	-.6	T	11.6	153	21.4	105	92	47	0	0	0	0
SYRACUSE	80	54	85	49	67	-2	T	-.8	T	6.6	75	16.3	70	92	42	0	0	0	0
NC ASHEVILLE	78	59	82	48	68	-4	T	-1.0	T	6.9	56	25.0	81	97	53	0	0	1	0
CHARLOTTE	76	63	81	59	69	-8	.3	-.5	.3	11.1	97	23.1	78	86	51	0	0	1	0
GREENSBORO	76	58	82	55	67	-9	.4	-.6	.4	13.4	117	24.1	86	83	48	0	0	6	4
HATTERAS	77	69	82	64	73	-4	9.7	8.1	4.0	24.5	156	37.6	108	98	76	0	0	1	0
RALEIGH	75	57	81	53	66	-10	1.7	-.6	1.2	11.5	92	23.2	80	97	60	0	0	3	1
WILMINGTON	77	66	83	61	72	-7	7.8	6.3	4.8	21.7	113	35.3	96	95	70	0	0	4	3
ND BISMARCK	86	60	95	52	73	4	.3	-.1	.3	7.8	107	10.0	79	92	43	3	0	2	0
FARGO	81	60	92	49	70	2	.3	-.4	.2	6.5	73	11.8	79	85	48	1	0	2	0
WILLISTON	90	61	100	53	76	8	.5	-.2	.3	6.9	102	9.2	84	85	34	6	0	4	0
OH AKRON-CANTON	79	54	82	47	66	-4	0	-.6	0	10.6	113	30.3	122	84	33	0	0	0	0
CINCINNATI	81	57	85	54	69	-5	0	-.5	0	9.1	92	25.7	93	84	38	0	0	0	0
CLEVELAND	78	54	81	46	66	-4	0	-.7	0	12.5	136	24.5	100	84	37	0	0	0	0
COLUMBUS	79	54	84	48	66	-5	0	-.6	0	10.6	101	29.1	108	75	40	0	0	0	0
DAYTON	81	54	84	49	67	-5	0	-.6	0	13.4	143	28.2	114	87	40	0	0	0	0
TOLEDO	79	50	84	44	64	-6	0	-.7	0	13.2	145	23.2	107	93	40	0	0	0	0
YOUNGSTOWN	79	48	81	41	64	-5	0	-.7	0	7.8	79	23.5	91	86	35	0	0	0	0
OK OKLAHOMA CITY	83	62	89	61	73	-8	T	-.6	T	16.9	194	26.7	121	90	49	0	0	0	0

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

Weather Data for the Week Ending Aug. 23, 1981

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE June 1	PCT. NORMAL SINCE June 1	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE °F		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
OR TULSA	84	62	88	59	73	-8	T	.6	T	11.9	116	24.6	97	95	52	0	0	1	0
OR ASTORIA	68	55	73	49	61	1	T	.3	T	6.8	155	34.1	94	93	71	0	0	2	0
OR BURNS	83	47	91	38	65	0	T	0	T	9	50	7.3	101	101	1	0	1	0	
OR MEDFORD	93	54	103	49	74	4	T	.1	T	.9	56	6.3	55	69	19	5	0	0	
OR PENDLETON	91	58	100	50	74	4	T	0	T	2.4	150	9.0	117	51	17	5	0	0	
OR PORTLAND	83	59	93	55	71	5	T	.2	T	3.5	135	15.4	75	89	39	3	0	0	
OR SALEM	83	50	94	45	67	1	T	.1	T	3.6	157	16.7	74	97	39	2	0	0	
PA ALLENTOWN	79	51	84	47	65	-6	T	.9	T	9.9	90	24.2	87	91	35	0	0	0	
PA ERIE	77	55	82	48	66	-7	T	.8	T	11.4	121	27.3	114	81	41	0	0	0	
PA HARRISBURG	80	53	85	48	67	-1	T	.7	T	11.8	131	23.8	98	89	36	0	0	0	
PA PHILADELPHIA	80	60	83	57	70	-4	T	.9	T	13.7	127	26.0	98	82	31	0	0	0	
PA PITTSBURGH	78	50	82	43	64	-6	T	.7	T	12.5	129	26.1	103	87	34	0	0	0	
PA SCRANTON	79	51	83	45	65	-4	T	.7	T	8.9	88	24.8	106	79	35	0	0	0	
RI PROVIDENCE	79	52	83	47	65	-4	T	.9	T	8.6	104	20.8	79	92	33	0	0	0	
SC CHARLESTON	80	70	88	68	75	-4	T	2.8	T	4.0	28.0	144	107	91	72	0	0	4	
SC COLUMBIA	74	64	80	62	69	-11	T	.7	T	.5	15.1	110	27.5	85	96	68	0	5	
SC GREENVILLE	78	64	82	61	71	-6	T	.1	T	.8	7.8	70	20.3	63	84	51	0	1	
SD ABERDEEN	87	59	95	49	73	3	T	.5	T	.6	8.2	100	12.4	85	89	40	2	3	
SD HURON	85	60	95	53	73	1	T	.4	T	.1	8.3	109	11.2	76	95	49	2	1	
SD RAPID CITY	86	59	95	56	73	2	T	.3	T	.8	8.2	114	11.7	82	85	34	3	0	
SD SIOUX FALLS	79	57	85	48	68	-3	T	.3	T	.3	9.3	99	12.7	70	89	49	0	2	
TN CHATTANOOGA	80	66	87	60	73	-5	T	1.7	T	1.4	10.1	83	28.6	83	89	59	0	3	
TN KNOXVILLE	83	69	88	66	76	-1	T	1.4	T	1.3	11.0	101	26.4	81	89	53	0	2	
TN MEMPHIS	84	71	89	67	77	-3	T	.7	T	.4	5.4	57	26.1	76	91	63	0	3	
TN NASHVILLE	78	66	84	65	72	-6	T	.3	T	.2	12.9	133	29.6	92	88	62	0	2	
TX ABILENE	89	67	95	63	78	-6	T	.4	T	.4	5.0	74	14.5	90	82	38	3	0	
TX AMARILLO	81	59	86	56	70	-7	T	.4	T	.3	8.0	93	13.3	95	97	50	0	2	
TX AUSTIN	94	74	96	71	84	-1	T	.1	T	.1	18.5	289	34.4	162	79	40	6	2	
TX BEAUMONT	92	74	95	70	83	0	T	1.2	T	20.3	135	35.0	99	93	50	5	0	1	
TX BROWNSVILLE	96	75	98	72	86	2	T	.6	T	.4	6.5	116	18.9	144	93	45	7	0	
TX CORPUS CHRISTI	94	75	96	72	84	-1	T	.7	T	.7	9.7	142	26.1	156	91	50	7	0	
TX DEL RIO	94	71	98	69	82	-3	T	.1	T	.2	8.0	211	19.9	197	77	38	5	0	
TX EL PASO	90	66	97	63	78	-2	T	.9	T	.7	.9	8.0	258	11.3	231	87	33	2	
TX FORT WORTH	88	68	95	64	78	-7	T	1.7	T	1.6	11.9	180	26.3	119	92	45	2	1	
TX GALVESTON	90	78	93	76	84	1	T	-1.0	T	16.5	141	24.9	97	86	61	5	0	2	
TX HOUSTON	95	73	99	69	84	1	T	-1.0	T	14.2	118	32.1	105	91	42	7	0	0	
TX LUBBOCK	83	62	90	61	73	-6	T	1.4	T	9.6	150	15.0	121	92	45	1	0	1	
TX MIDLAND	88	64	94	61	76	-6	T	.1	T	.2	.1	4.1	91	10.2	116	86	32	2	
TX SAN ANGELO	86	63	91	58	75	-9	T	.1	T	.3	.1	5.9	144	18.6	173	97	40	2	
TX SAN ANTONIO	93	71	95	67	82	-3	T	1.7	T	1.1	1.3	10.8	171	25.4	146	86	43	7	
TX VICTORIA	92	73	96	71	83	-2	T	.8	T	.8	15.0	181	29.4	141	94	45	5	0	
TX WACO	90	68	97	62	79	-7	T	.1	T	.3	.1	8.2	152	18.9	91	90	46	4	
TX WICHITA FALLS	87	65	95	61	76	-9	T	.4	T	.2	8.2	121	21.1	112	91	42	2		
UT BLANDING	86	56	89	53	71	1	T	0	T	.4	0	3.7	142	8.3	119	76	32	0	
UT SALT LAKE CITY	93	65	95	62	79	5	T	.2	T	.2	1.3	48	9.1	87	52	16	6		
VT BURLINGTON	77	53	84	46	65	-2	T	.3	T	.6	.3	11.5	119	25.7	125	93	49	0	
VA LYNCHBURG	77	58	85	54	68	-6	T	.9	T	.9	13.2	125	23.4	92	88	45	0	1	
VA NORFOLK	75	64	83	60	70	-7	T	4.6	T	3.3	2.2	17.0	123	27.1	91	92	55	0	
VA RICHMOND	78	59	83	56	69	-7	T	.8	T	.3	.6	10.5	80	25.3	89	90	50	0	
VA ROANOKE	79	56	85	51	67	-7	T	.9	T	.9	6.5	64	18.3	71	90	38	0	2	
WA COLVILLE	87	54	93	48	71	5	T	.2	T	.2	7.5	250	16.5	162	81	44	2		
WA OMAK	93	58	102	52	76	--	T	.1	T	--	.1	1.4	--	--	--	4	0	2	
WA QUILLAYUTE	69	51	76	43	60	1	T	.6	T	.6	9.9	129	54.7	94	98	62	0	3	
WA SEATTLE-TACOMA	78	56	87	54	67	4	T	.3	T	.3	3.8	131	16.0	78	85	41	0	0	
WA SPOKANE	86	56	94	50	71	4	T	.1	T	.1	2.5	109	9.5	86	72	24	3	0	
WA WALLA-WALLA	97	63	107	55	80	7	T	0	T	0	3.4	170	14.0	135	49	16	5	0	
WA YAKIMA	92	54	109	45	73	5	T	.1	T	.8	.6	7.3	73	75	24	4	0	2	
WV BECKLEY	73	53	75	49	63	-6	T	.8	T	.8	0	11.2	97	24.3	81	92	49	0	0
WV CHARLESTON	80	54	85	51	67	-6	T	.8	T	.8	0	11.8	104	27.2	94	88	38	0	0
WV HUNTINGTON	82	58	87	55	70	-4	T	.7	T	.7	0	10.6	103	29.7	108	93	39	0	0
WV PARKERSBURG	79	55	85	52	67	-6	T	.7	T	.7	0	10.6	95	23.3	85	94	40	0	0
WI GREEN BAY	78	51	83	43	64	-3	T	.6	T	.6	5.9	70	13.9	76	96	44	0	0	
WI LA CROSSE	80	55	86	48	67	-4	T	.7	T	.7	0	17.0	167	26.1	128	100	46	0	0
WI MADISON	78	49	81	43	63	-5	T	.7	T	.7	12.6	121	19.5	94	92	41	0	0	
WI MILWAUKEE	73	55	79	51	64	-5	T	.6	T	.6	0	8.3	93	19.8	102	91	52	0	0
WY CASPER	89	51	93	46	70	1	T	.1	T	.1	2.2	85	8.9	113	71	16	3	0	
WY CHEYENNE	79	50	84	47	65	-2	T	.3	T	.3	0	7.4	135	14.8	128	93	36	0	0
WY LANDER	86	55	91	49	70	2	T	0	T	0	1.7	59	8.9	91	65	23	1	0	
WY SHERIDAN	89	54	94	48	71	3	T	.2	T	.2	5.7	127	11.7	99	77	22	3	0	
PR SAN JUAN	89	77	90	75	83	2	T	0	T	.7	15.7	90	39.5	112	96	67	4	0	

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS



## National Agricultural Summary

August 17-23, 1981

**HIGHLIGHTS:** Tropical Storm Dennis dumped heavy rain along the South Atlantic coastline, but crop damage was minimal. Very little, if any, rain fell in most areas of the Corn Belt, and soil moisture supplies diminished. Subnormal temperatures dominated the eastern half of the Nation and slowed crop development. Farmers in all areas of the Nation except the South Atlantic and South Central regions had from 6 to 7 days suitable for fieldwork. In the South Atlantic region, heavy rainfall limited the number of days available, and in the South Central region from 4 to 6 days were suitable. Soil moisture supplies were short to mostly adequate in all areas except in parts of the South Atlantic region where heavy rains saturated soils and resulted in some areas receiving a surplus. Corn rated mostly good and in some areas of the Corn Belt excellent. In the 17 major States, 69% of the corn was in or past the dough stage and 30% was in or past the dent stage. Harvesting became more widespread across the South. Soybeans were in fair to mostly good condition. Blooming reached 92% finished and 72% of the crop had set pods. Development generally lagged normal. Winter wheat combining reached 97% complete. Spring wheat was 70% harvested. Cotton was in fair to good condition with bolls open on 18% of the acreage. Harvesting was active in Arizona and Texas. Grain sorghum was 86% headed. Harvesting centered in Texas where 64% of the crop had been harvested. Rice harvest was 28% finished. Pastures in the eastern half of the Nation were in fair to good condition. In the western half, dry weather limited growth.

**CORN:** Corn rated mostly good and in some areas of the Corn Belt excellent, although a few poor to fair stands were reported in the Southeast. In the 17 major producing States, 60% of the corn was in or past the dough stage, 10 points behind last year, and 30% was in or past the dent stage, 9 points behind a year ago. In Ohio, the average progress of corn was 5 days behind normal; however, some of the late-seeded fields were much farther behind than this. Ample moisture and warm weather is needed to push the crop to maturity before a frost occurs. Over 85% of the corn in the South was mature and harvesting operations became more widespread. Georgia's harvest was 56% finished; Louisiana's, 60%; Alabama's, 45%; and in Texas, harvesting was 31% complete. Florida's harvest was virtually over. Harvesting was getting underway as far north as Tennessee and Kentucky.

**SOYBEANS:** Soybeans were in fair to mostly good condition. In the 18 major producing States, 92% of the crop had bloomed and 72% had set pods. Development generally lagged the average. Progress of pod setting was 30 points behind normal in Ohio and 35 points behind in Indiana. The average progress in Ohio was 15 days behind normal. Warm weather is needed to speed the crop to maturity. In Illinois and Iowa, plants began to turn yellow.

**SMALL GRAINS:** Winter wheat combining in the 15 major States reached 97% complete, 2 points ahead of last year. Harvesting was finished in all States except Colorado, Idaho, Missouri, Montana, Oregon, and Washington. Farmers made good progress plowing harvested fields in the

north central States and the Northeast. Oklahoma growers prepared seedbeds. Spring wheat was 70% harvested in the 5 major States, well ahead of last year's 59% and the 56% average. Combining made good progress in most areas as a result of the good harvesting weather.

**COTTON:** Cotton was in fair to good condition. In the 14 major producing States, 97% of the acreage had set bolls, equal to a year ago, and bolls had opened on 18% of the acreage, 1 point ahead of last year. Harvesting was underway in the Yuma area of Arizona and in the Rio Grande Valley and other southern parts of Texas. Rainfall aided the development of cotton in Texas and lessened the need for irrigation. Droppage of bolls decreased as plants received relief from the dry weather.

**OTHER CROPS:** Grain sorghum was 86% headed in the 7 major States, 2 points ahead of last year. The percent of the crop headed ranged from 75% in Kansas to 100% in Nebraska. Only Texas reported any harvest activity with 64% of that State's acreage harvested, compared with 68% last year and the 59% average.

Rice heading moved to 82% complete, 6 points ahead of a year ago. Harvesting gained momentum and reached 28% finished, lagging last year's progress of 30%. The Texas harvest was 89% complete, Louisiana passed the halfway mark, Arkansas and Mississippi harvests just got underway, and California producers had not started yet.

**FRUITS AND NUTS:** The peach harvest wound down to the finish in southern areas and approached its peak in northern areas. Most areas of the Nation harvested summer apples. Pears were harvested in the Pacific Northwest and the Northeast. California growers harvested apples, avocados, nectarines, peaches, plums, pears, and prunes. Raisin grapes were put on trays and the table grape harvest was in full swing in California. Almond harvesting increased and walnuts sized nicely.

Florida citrus groves were in very good to excellent condition as major pruning continues. Tropical Storm Dennis brought heavy rain to most areas. Trees showed an abundance of new growth and new crop fruit made good progress.

Texas pecans matured rapidly; with most entering the shell-hardening stage.

**VEGETABLES:** Vegetable growers in northern areas continue to harvest good volumes of sweet corn, snap beans, cabbage, tomatoes, onions, and beets. Southern producers continued to prepare seedbeds and plant fall crops. Tropical Storm Dennis brought heavy rain to Florida's vegetable areas, with heaviest amounts along the lower east coast. Most fields were flooded in Dade County. However, damage was minimal since laying of plastic and planting was just getting underway. A wide variety of vegetables continued to be harvested in California.

**PASTURES AND LIVESTOCK:** Grasslands in the eastern half of the Nation rated fair to good. In the western half, dry weather slowed growth. The risk of range fires increased in many areas. Cattle were in fair to good condition. Hay crops rated good; balers moved into high gear in northern areas as ideal weather prevailed.

**CROP PROGRESS** FOR WEEK ENDING AUG. 23, 1981

NA - NOT AVAILABLE

CORN % DOUGH			CORN % DENT			SOYBEANS % BLOOMING			SOYBEANS % SETTING PODS		
	1981	1980	AVG.		1981	1980	AVG.		1981	1980	AVG.
COLO	60	62	60	COLO	36	20	31	ALA	90	92	86
GA	100	99	NA	GA	99	96	NA	ARK	78	78	NA
ILL	80	91	86	ILL	46	61	52	GA	91	88	NA
IND	60	90	85	IND	15	35	30	ILL	97	100	100
IOWA	65	73	81	IOWA	25	41	38	IND	93	100	100
KANS	75	75	80	KANS	35	35	40	IOWA	100	100	100
KY	86	89	86	KY	48	54	50	KANS	90	95	NA
MICH	75	75	74	MICH	10	10	16	KY	75	92	94
MINN	46	76	68	MINN	10	21	29	LA	93	87	93
MO	85	87	77	MO	57	63	52	MICH	100	100	100
NEBR	75	75	75	NEBR	30	35	40	MINN	99	99	99
N C	98	95	NA	N C	91	85	NA	MISS	93	94	96
OHIO	65	80	75	OHIO	15	25	30	MO	78	92	90
PA	58	52	50	PA	13	12	11	NEBR	100	100	100
S DAK	57	65	62	S DAK	19	24	25	N C	85	82	NA
VA	91	68	NA	VA	68	34	NA	OHIO	95	100	100
WIS	60	64	46	WIS	15	26	17	S C	86	90	85
17 STATES	69	79	NA	17 STATES	30	39	NA	TENN	100	100	92
EXCL. STATES WITH NA	67	78	75	EXCL. STATES WITH NA	26	37	36	18 STATES	92	95	NA
THESE 17 STATES PRODUCED 93% OF THE 1980 CORN CROP.				THESE 18 STATES PRODUCED 95% OF THE 1980 SOYBEAN CROP.							

COTTON % SETTING BOLLS			COTTON % BOLLS OPENING			WINTER WHEAT % HARVESTED			SPRING WHEAT % HARVESTED		
	1981	1980	AVG.		1981	1980	AVG.		1981	1980	AVG.
ALA	100	98	97	ALA	20	12	6	CALIF	100	100	NA
ARIZ	100	100	100	ARIZ	39	9	24	COLO	99	99	99
ARK	100	100	99	ARK	15	10	5	IDAHO	70	45	58
CALIF	98	95	NA	CALIF	8	6	NA	ILL	100	100	100
GA	100	100	100	GA	25	36	21	IND	100	100	100
LA	100	100	100	LA	31	20	10	KANS	100	100	100
MISS	100	100	99	MISS	28	13	12	MO	91	100	100
MO	95	100	100	MO	3	19	4	MONT	85	65	85
N MEX	100	100	95	N MEX	1	1	1	NEBR	100	100	100
N C	95	99	NA	N C	0	8	NA	OHIO	100	100	100
OKLA	90	70	85	OKLA	0	0	0	OKLA	100	100	100
S C	100	100	100	S C	14	48	19	OREG	88	87	NA
TENN	100	100	92	TENN	12	6	6	S DAK	100	100	100
TEX	96	99	NA	TEX	19	22	NA	TEX	100	100	100
14 STATES	97	97	NA	14 STATES	18	17	NA	WASH	86	68	79
EXCL. STATES WITH NA	98	96	97	EXCL. STATES WITH NA	20	12	10	15 STATES	97	95	NA
THESE 14 STATES PRODUCED 99% OF THE 1980 COTTON CROP.				THESE 15 STATES PRODUCED 88% OF THE 1980 WINTER WHEAT CROP.							

THESE 5 STATES PRODUCED 92% OF THE 1980 SPRING WHEAT CROP.

SORGHUM % HEADED			SORGHUM % HARVESTED			RICE % HEADED			RICE % HARVESTED		
	1981	1980	AVG.		1981	1980	AVG.		1981	1980	AVG.
COLO	77	84	87	COLO	0	0	0	ARK	80	67	NA
KANS	75	70	70	KANS	0	0	0	CALIF	50	50	NA
MO	79	83	84	MO	0	0	0	LA	96	92	94
NEBR	100	100	100	NEBR	0	0	0	MISS	84	89	84
OKLA	90	80	85	OKLA	0	0	0	TEX	100	100	NA
S DAK	87	78	81	S DAK	0	0	0	5 STATES	82	76	NA
TEX	93	93	NA	TEX	64	68	59	EXCL. STATES WITH NA	93	91	91
7 STATES	86	84	NA	7 STATES	22	23	20	EXCL. STATES WITH NA	61	67	62
EXCL. STATES WITH NA	83	80	81	THESE 7 STATES PRODUCED 92% OF THE 1980 SORGHUM CROP.				THESE 5 STATES PRODUCED 98% OF THE 1980 RICE CROP.			

## 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 SRS State Offices in cooperation with the National Weather Service.

**ALABAMA:** Temperatures several degrees below normal in north to normal in south. Rainfall widely varied up to 5.00 in.

Fieldwork: 4.7 days. Activities: treating row crop pests; harvesting fruits, vegetables, corn and hay. Corn: mature 91%, 84% 1980, 63% average; harvested 45%, 42% 1980. Soybeans: blooming 90%, 92% 1980, 86% average; setting pods 63%, 72% 1980. Cotton: bolls open 20%, 12% 1980, 6% average; setting bolls 100%, 98% 1980, 97% average. Peanuts: dug 1%. Conditions: corn, peanuts, sorghum good; soybeans, cotton, pastures fair.

**ALASKA:** Showers fell in all areas of the Rain-belt. Skies cleared and temperatures warmed toward the weekend. Suitable haying days ranged from 0 to 4 days. Wind, rain damage to grains light. Early fields of oats and barley for grain turning color. Due to cooler than normal temperatures in July and early August, grain, vegetable maturity behind normal. Potato harvesting under-way, tuber size and quality appear good in all areas. Some frost damage on potatoes and vegetables occurred early in the week. Soil moisture supply adequate to mostly surplus.

Tanana Valley; temperatures 6 to 8° cooler than normal. Some light frost reported early in the week.

Matanuska Valley and the Kenai Peninsula; weather cooler and wetter than normal.

Kodiak Island; rainfall of 3.00 in. much above normal. Temperatures were normal.

**ARIZONA:** Dry, hot over State, only scattered thundershowers northern, eastern sections 1st half week. Total amounts mostly under 0.25 in. Average temperatures mostly 1 to 8° above normal.

Cotton progress outstanding, well ahead normal, virtually all crop setting bolls, 39% showing open bolls compared with 9% last season. Cotton harvest underway Yuma. Sorghum good progress, earliest plantings at, near maturity. Alfalfa haying seasonal progress. Plowing, discing, other land preparations active other crops. Sugarbeets planting expected within week. Lemon ring picking underway Yuma. Lemon sizes variable due multiple bloom last winter, spring. Other new crop citrus making good progress, early bearing varieties sizing well. Land preparation, planting of vegetables, melons good progress. Most early plantings, especially melons, good stand. Rains, improved range conditions. South central ranges received flooding rains, some areas, north central ranges limited rainfall. Eastern mountains, especially east central reported better rains than last year, conditions approaching excellent. Stock water, soil moisture short lower Desert elevations, adequate mid-to-higher ranges. Cattle remained mostly fair, good condition.

**ARKANSAS:** Cool week. Highest temperature 92°, lowest 50°. All departures from normal -3 to -9°. Most rainfall 3.74 in., least 0.17 in.

All crops good condition. Rice headed 80%, 67% 1980; ripe 16%, 10% 1980; harvested 3%, 3% 1980. Soybeans blooming 78%, 78% 1980; setting pods 52%, 45% 1980. Cotton bolls open 15%, 10% 1980, 5% average. Five days suitable for fieldwork. Corn harvest 20%, 15% 1980, 11% average. Sorghum harvest 17%, 10% 1980, 4% average. Soil moisture supplies mostly adequate. Forage cover on pasture slightly above average. Livestock good condition.

**CALIFORNIA:** The South Coast, the southeast Interior and the Cascade-Sierra were a few degrees

warmer than normal. Remainder of the State had average temperatures at or close to normal. Highest temperatures, Statewide, pushed over the century mark except in the Cascade-Sierra region but nineties were observed there. Drizzle on the North Coast and a few light showers over the Southeast Interior, otherwise the normal summer dryness continued.

Crop development excellent. Cotton bolls opening in San Joaquin Valley. Some boll drop reported. Boll set 98%, bolls open 8%. Rice maturing well. Corn harvest for silage begun. Sugarbeet harvest underway. Good yields reported. Dry beans developing rapidly. Seed alfalfa harvest begun. Apples, strong, McIntosh moving quickly. Avocados continue, quality down slightly. Raisin grapes put on trays. Table grapes in full swing. Crushing began North Coast, increasing San Joaquin Valley. Shipments of nectarines, peaches, and plums continue. Cling peaches active, better size. Bartlett pears near completion, Sacramento Valley, other varieties get underway. Prune harvest underway. Lemons, Valencia orange shipments continue light. Almond harvesting increasing. Walnuts sizing nicely. Artichokes light supply. Brussel sprouts, string beans exhibit good growth. Broccoli, cauliflower in moderate supply. Cantaloup, watermelon, honeydew harvests doing well. Bell pepper harvest continues on Central Coast and in San Joaquin Valley. Harvest of fresh market tomatoes and processing tomatoes continues at high level. Summer potato harvest continues in Stockton and Riverside areas. Fall potatoes sizing well in Tulalake-Butte Valley area with vine desiccant being applied to Norgold Russets. Sweetpotato harvest continues in Merced, Fresno Counties. Range conditions normal. Fire hazards high. Water supplies declining but adequate.

**COLORADO:** Cool air over Eastern Plains brought considerable showers and thunderstorm activities with localized heavy rains. Up to 3° below normal east, near normal rest of State.

Winter wheat harvested 99%, 99% 1980 and average. New crop seeded 1%, 9% 1980, 7% average. Barley turned color 97%, 95% 1980; ripe 90%, 82% 1980; harvested 74%, 60% 1980, 70% average. Spring wheat harvested 35%, 31% 1980. Corn dough 60%, 62% 1980, 60% average; dented 36%, 20% 1980, 31% average. Sorghum headed 77%, 84% 1980, 87% average; turned color 5%, 20% 1980. Dry beans cut 5%, 10% 1980, 5% average. Summer potatoes harvested 41%, 31% average; alfalfa second cutting 85%, 77% 1980, 84% average; third cutting 20%, 21% 1980, 30% average. Four and one-half days suitable for fieldwork. Livestock good condition.

**FLORIDA:** Tropical storm Dennis moved up on extreme south 17th and 18th and stalled. Heavy rains drenched area. Temperatures lowered by rain and cloudiness averaged slightly below normal. Low pressure from Dennis increased rainfall in north and west late in week. Some rain amounts in excess of 5.00 in. Flooding a problem in southeast early in week and some sections of central late in week.

Soil moisture mostly adequate. A few wet areas in south and west, a few scattered dry spots in central and north. Heavy flooding in south Dade County from rains of tropical storm Dennis. Water table remains below normal. Corn harvest continues tobacco harvest complete. Cotton, peanuts and sugarcane good condition; soybeans good to excellent condition, insects beginning to build up. Hay cutting delayed by showers. Panhandle and southern pastures good to excellent condition, central and north poor to fair but improving.

Cattle good condition. Grove condition very good to excellent, heavy rain from tropical storm Dennis most areas. Abundance of new growth most trees. New crop fruit good progress. Major pruning continues. Tropical storm Dennis brought rain to vegetable areas. Heaviest amounts were along lower east coast. Most fields were flooded Dade County. Damage was minimal since laying of plastic and planting were just starting. Egg-plant, celery, pepper, tomato plantings increasing. Early plantings progressing favorably with plant life above normal. Early snap bean, cucumber plantings underway, west central area. Sweet corn seeding continues active Everglades. Some early plantings damaged by rains. Cabbage seedbeds progressing favorably. Light transplanting expected soon.

GEORGIA: Rain heavy parts southeast due to tropical storm "Dennis", locally heavy northwest, otherwise less than 1.00 in. Locally heavy rainfall parts of south 22nd and 23rd, little or none elsewhere. Temperatures below normal after above normal 12th and 13th temperatures. Below normal 22nd and 23rd, but some warming parts of north.

Soil moisture short to mostly adequate. Four days suitable for fieldwork. Spraying and harvesting hay, silage, tobacco, corn and apples major activities. Corn poor to fair; 100% dough, 99% last year; 99% dent, 96% last year; 97% mature, 89% last year; 56% harvested, 48% last year, 36% average. Peanuts fair to good, 1% dug, threshing just beginning. Soybeans fair to good; 91% blooming, 88% last year; 70% setting pods, 46% last year; 4% leaf drop, 5% last year. Cotton fair to good; 25% open, 36% last year, 21% average. Tobacco 84% harvested, 85% last year, 92% average. Apples fair to mostly good, 57% harvested, 44% last year. Pecans fair to good: pastures and hay crops fair to good. Cattle and hogs fair to mostly good.

HAWAII: Weather favorable. Showers beneficial. New plantings increasing in the recently relieved drought areas. Spraying frequent to control insects and diseases. Vegetables: Leafy crops light. Others continued adequate. Bananas: Supplies light. Papayas: Steady increases expected over next several weeks. Pineapples: Gradually declining but still active. Sugar: Steady harvest. Pastures: Rains replenished more moisture where needed. Improving.

IDAHO: Temperatures averaged 2 to 7° above normal. Reported high of 103° in Grandview and Lewiston, low in Stanley of 31°. Scattered showers caused variable amounts of precipitation across the State. Winter wheat harvested: 70%, 45% in 1980, and 58% average. Spring wheat harvested: 60%, 37%, 28%. Barley harvested: 57%, 40%, 38%. Pea harvest: 43%, 66%, 78%. Lentil harvest: 22%, 27%, 51%. Onion harvest and bean harvest just underway. Grass seed harvest virtually complete. Ranges dry.

ILLINOIS: Temperatures 3 to 8° below normal. Precipitation none to trace throughout State. Corn condition 28% excellent, 71% good, and 1% fair; 80% dough, 91% 1980, and 86% average; 46% dented, 61% 1980, and 52% average. Soybeans 83% setting pods, 94% 1980, 92% average; 4% turning yellow, 7% 1980, 7% average; condition 15% excellent, 72% good, 13% fair. Alfalfa condition 16% excellent, 71% good, 13% fair; third cutting 64% complete, 50% 1980, 50% average. Pastures 29% excellent, 67% good, 4% fair. Soil moisture 4% short, 82% adequate, 14% surplus. Fieldwork: 5.5 days suitable.

INDIANA: Cool, dry week. Temperatures averaged 4° below normal and ranged from 42 to 87°. Rainless period except a local shower of 2.80 in. at Mitchell. Four week rainfall 1.00 in. below normal northeast, 0.60 in. above normal southwest. Below normal humidities.

Fieldwork averaged 6 days. Topsoil and subsoil moisture adequate. Corn and soybean condition fair to mostly good but on decline. Corn 60% in dough, 1980 90%, average 85%; 15% dented, 1980 35%, average 30%. Soybeans 93% in bloom, 1980 100%, average 100%; 55% setting pods, 1980 95%, average 90%. Alfalfa 95% cut second time, 1980 95%, average 95%.

IOWA: A very dry and cool week with temperatures 4 to 6° below normal. Precipitation occurred only on the last few days of the week and was light in most areas with none at all along the eastern border of the State.

Topsoil moisture: 14% short, 84% adequate, 2% surplus. Subsoil moisture: 24% short, 71% adequate, 5% surplus. Corn in or past dough stage: 1981 65%, 1980 73%, normal 81%. Corn in or past dent stage: 1981 25%, 1980 41%, normal 38%. Soybeans setting pods: 1981 97%, 1980 94%, normal 99%. Soybeans with leaves turning: 1981 7%, 1980 8%, normal 12%. Second crop clover hay harvested: 96% complete, 1980 91%, normal 87%. Third cut alfalfa hay harvested: 55% complete, 1980 49%, normal 46%. Fieldwork: 6.8 days suitable. Crop conditions: pasture, hay mostly good. Soybeans and corn excellent. Livestock in mostly good condition.

KANSAS: Little or no precipitation north central and northeast. Elsewhere 0.90 in. southeast border counties, less than 0.25 in. remainder of west and south. Temperatures averaged 68 to 73° or 2° below normal northwest to 9° below normal southeast.

Corn making good progress, 99% silked, 1980 also 99%; dough 75%, last year 75%, average 80%; dent 35% same as last year, average 40%; 10% safe from frost, last year 20%, average 15%. Greenbugs still threatening sorghum in scattered areas, spraying common in west. Sorghum headed 75%, 1980 and average 70%; 15% turning color, last year and average 15%. Soybeans blooming 90%, last year 95%; podding 65%, last year and average 75%. Principal activities haying and preparation of wheat ground. Much volunteer wheat sprouting. Six days suitable fieldwork.

KENTUCKY: Temperatures averaged 3 to 4° below normal. Rainfall averaged 0.25 to 0.50 in. below normal.

Days suitable for fieldwork averaged 5.1. Soil moisture 5% very short, 25% short, 66% adequate, 4% surplus. Corn prospects good, 86% dough stage or beyond, 48% dent. Some early fields being harvested. Soybean development behind, 75% blooming, 92% last year, 94% average, 35% setting pods. Topping of burley tobacco 74% complete, 20% cut. Some burley being cut green to avoid field losses from blue mold which still active. Pastures generally good to excellent.

LOUISIANA: Rainfall scattered and light. Temperatures normal to 2° below normal north, normal to 3° above normal elsewhere.

Soil moisture short. Days suitable: 6.2. Corn mature 96%, 85% 1980, 91% average; harvested 60%, 41% 1980, 33% average; condition good. Rice headed 96%, 92% 1980, 94% average; ripe 68%, 68% 1980, 70% average; harvested 56%, 59% 1980; 56% average; condition good. Cotton setting bolls 100%, 100% 1980 and average; open bolls 31%, 20% 1980, 10% average; condition fair. Soybeans blooming 93%, 87% 1980, 93% average; setting pods 77%, 68% 1980, 77% average; condition fair. Sorghum turning color 84%, 74% 1980, 67% average; ripe 61%, 46% 1980; harvested 38%, 14% 1980; condition fair to good. Sugar-cane planted 3%; condition good. Vegetables rated fair. Sweetpotatoes harvested 30%, 26% 1980, 20% average; condition fair to good. Pastures rated fair to good, livestock rated good.

MARYLAND AND DELAWARE: Weather cool with scattered light showers Statewide except heavy in northeastern Maryland and northern Delaware.

Maryland: Corn good to excellent condition except southern counties west of the bay. Stages: 100% silked; 85% dough; 50% dent. Last year 90% silked; 65% dough; 50% dent. Soybean good condition major areas; 80% bloomed; 45% podded. Last year; 80% bloomed, 40% podded. Hay 3rd cuttings alfalfa 70%; last year 90%. Fourth cuttings just beginning. Third cuttings of other hay 60%; last year 97%. Fourth cutting 10%. Tobacco harvest 55%; last year 25%. Cantaloups nearly all harvested. Sweet corn and tomatoes 85% harvested. Watermelon 75%, apples 25%, peaches 70%. Delaware corn improved. Fair to good condition. Stages; 100% silked; 80% dough; 60% dented. Last year; 100%, 80%, and 65%, respectively. Soybeans: 80% past bloom; 40% podded; 50% bloom and 40% podded last year. Hay: 3rd cutting alfalfa 85%; last year 75%. Third cuttings of other hay 85%; last year 70%. Vegetable harvest progress: Cantaloups and potato 80%; tomatoes 70%; snap beans and cucumbers 100%; sweet corn 85%. Apple and peach harvest 10 and 70% completed, respectively.

MICHIGAN: Week was sunny and cool. Average precipitation across each section of State was zero. Average temperatures were below normal. Departures ranged from 1 to 2° below normal in the north to 4 to 6° below normal in the south.

Combines and balers shifted into high gear last week as farmers took advantage of a string of bright, sunny days. About 6 days were suitable for fieldwork. Second cutting of hay nearing completion with 90% cut. Third cutting of hay has begun with 20% cut. Close to 40% of the dry beans have leaves turning, 40% last year and 51% normal. Soybeans setting pods total 80%, 80% last year and 86% normal. Oat harvest wrapping up with 95% in. Corn, 75% in the dough stage, 75% a year ago and normal. Summer apple harvest made significant progress with 85% picked.

MINNESOTA: Temperatures averaged 5° below normal southeast to 7° above normal northwest. Extremes: 96° Browns Valley and 35° Hibbing. Precipitation average 0.50 to 0.84 in. below normal northeast, south central, and southeast with near normal elsewhere. Precipitation totals less than 0.25 in. northeast, south central, and southeast, 0.25 to 0.75 in. elsewhere with isolated 0.75 to 1.27 in.

Harvesting of small grains ahead of normal but development of corn and soybeans behind by 5 to 10 days. Topsoil moisture: 6% very short, 24% short, 60% adequate, 10% surplus. Combined: Spring wheat 80%, 1980 72%, normal 63%; oats 90%, 1980 90%, normal 80%; barley 94%, 1980 90%, normal 83%; winter wheat 97%, 1980 98%, normal 94%; rye 96%, 1980 95%, normal 91%. In milk: field corn 98%, 1980 99%, normal 94%. In dough: field corn 46%, 1980 76%, normal 68%. Blooming: soybeans 99%, 1980 99%, normal 99%; sunflowers 98%, 1980 97%, normal 98%. Setting pods: soybeans 96%, 1980 99%, normal 94%. In dent: field corn 10%, 1980 21%, normal 29%.

MISSISSIPPI: Temperatures below normal in north, above normal along coast. Extremes: 62 and 102°. Rainfall most locations except central area of State. Greatest 24-hour precipitation 2.30 in.

Soil moisture short. Days suitable for fieldwork: 4.9. Cotton 100% setting bolls, 100% last year, 99% average; 28% acreage with open bolls, 13% last year 12% average; condition fair to good. Soybeans 93% blooming, 94% last year, 96% average; 63% podding, 67% last year, 71% average; condition fair. Rice 84% headed, 89% last year, 84% average; 2% harvested, 4% last year, 1% average; condition good. Corn 87% mature, 54% last year; 23% harvested, 11% last year, 8% average; condition good to fair. Sorghum 95% headed; 58% ripe; 17% harvested. Hay 84% harvested; peaches 93%; watermelons 95%; sweetpotatoes 8%; sorghum silage 61%; corn silage 80%; peanuts 8%. Pasture condition fair.

MISSOURI: Temperatures averaged 7 to 10° below normal. Precipitation ranged from 0.75 to 1.50 in. across extreme south. Conditions were dry in the northern and central sections of the State.

Fieldwork: 5.9 days suitable. Corn 85% in dough stage, last year 87%, normal 77%; 57% dented, last year 63%, normal 52%; 12% mature. Grain sorghum 79% headed, last year 83%, normal 84%; 12% mature, last year 18%, normal 14%. Soybeans 78% blooming, last year 92%, normal 90%; 54% setting pods, last year 73%, normal 67%. Wheat 91% harvested, last year 100%, normal 100%. Alfalfa hay 3rd cutting 73% harvested, last year 78%, normal 65%. Other hay 85% harvested, last year 100%. Cotton 3% with open bolls, last year 19%, normal 4%. Condition of corn and pasture good to excellent. Condition of grain sorghum mostly good. Condition of soybeans and cotton fair to good. Topsoil moisture supply adequate.

MONTANA: Another warm week. Temperatures averaged 5° above normal west of Divide to 6° above elsewhere. Heavy thunderstorms mid week with strong winds and brief heavy rains central portions. Highest 102° Broadus, lowest 32° West Yellowstone.

Topsoil and subsoil moisture short to adequate. Fieldwork: 7 days suitable. Progress of small grains in percent compared with last year and normal: winter wheat harvested 85, 65, 85. Spring wheat ripe 40, 40, 35; harvested 40, 45, 45. Barley ripe 40, 40, 35; harvested 50, 45, 45. Oats ripe 30, 35, 30; harvested 60, 45, 50. Second cutting alfalfa 65%, normal 60%. Stock water and range supplies short to adequate eastern half of State, adequate elsewhere. NEBRASKA: Temperatures: Near normal Panhandle; 5 to 6° below normal remainder. Precipitation: 0.50 in. west and north; over 1.00 in. south and east.

Dryland corn mostly good to fair; irrigated corn mostly good to excellent; dough or beyond 75%, same as last year and normal; dented 30%, last year 35%, normal 40%. Sorghum mostly good to excellent; all heading, same last year and normal; turning 25%, last year 40%, normal 30%. Soybeans mostly good to excellent, all podding, same last year and normal; leaves turning 5%, last year 10%, normal 5%. Alfalfa mostly good to fair. Pasture and range feed supplies mostly adequate to short. Topsoil and subsoil moisture both mostly adequate to short. Days suitable: 6.3.

NEVADA: Mostly hot and dry early, cooling trend midweek. Scattered thunderstorms most areas but precipitation totals extremely light. Despite midweek cooling, average temperatures generally a little above normal. Extremes: 107 and 34°.

Lack of rain aiding harvest of small grains and hay. Potato growth fair, lower yields expected. Extreme fire hazard remains range areas.

NEW JERSEY: Temperatures averaged 6 to 8° below normal. Extremes: 40° at Neshanic Station on 18th and 85° at several stations on several occasions. No rainfall occurred in northern and central sections. Rainfall averaged 0.08 in. over the southern section. Heaviest 24-hour total 0.25 in. at Cape May Court House on 22nd. Estimated soil moisture, in percent of field capacity, 65 north, 51 central and 68 south. Four inch soil temperature 70° north, 72° central and 72° south.

Fieldwork: 6.6 days suitable. Surface moisture ranged short to adequate. Water table dropping. Summer vegetable movement continues decline. Irish potato harvest continues active. Very light sweetpotato digging begun. Excellent quality peaches moving at peak harvest. Cranberry prospects good. Most field corn and soybean fields good. Weather good for third cutting of hay. Preparation underway for fall sown grain seeding.

**NEW MEXICO:** Rainfall activity diminished during the week, however soil moisture continued in mostly adequate supply. Where fields were dry enough to work, the main farming activities included small grain planting, chile picking, corn silage harvest, and alfalfa hay harvest. Cotton good progress with development about normal. Alfalfa hay harvest continued slowly due to rainfall. Corn in good condition and making good progress. Silage harvest increasing in activity. Winter wheat seeding begun and will increase in activity in the next few weeks. Grain sorghum in good condition. Dry beans in good condition in the Deming area. Green chile harvest continuing where fields dry enough to enter. Onion harvest mostly complete. Some lettuce acreage may be lost due to wash out from recent heavy rains. Ranges in fair to good condition depending on rainfall received. Cattle and sheep in good condition with some supplemental feeding occurring in the dryer areas.

**NEW YORK:** Cool, unusually dry week. Little rain anywhere.

Oat combining 65% done, 57% 1980, 75% average. Second cutting dry hay alfalfa 85% in, 71% 1980, 82% average. Third cutting alfalfa 25% harvested, 21% 1980, 22% average. Dry bean condition good. Long Island potato harvesting and grading underway. Upstate vegetable harvests progressed well under favorable conditions. Apple, peach harvesting active. Eastern pear harvest active, western pear harvest beginning.

**NORTH CAROLINA:** Temperatures: 6 to 10° below normal. Precipitation: near 0 in the west to 10.75 in. at Manteo.

Fieldwork: 3.9 days suitable. Soil moisture: 7% very short, 11% short, 43% adequate, 39% surplus. Conditions: pasture, field tobacco, corn, cotton, peanuts, soybeans, hay, sweet-potatoes, apples, and peaches mostly good; truck crops fair to mostly good. Harvest: sweetpotatoes 4%, 1980 8%, 7% average; flue-cured tobacco 72%, 1980 60%, 63% average; corn for grain 6%, 1980 6%, 1% average; corn for silage 38%, 1980 35%, apples 6%, 1980 12%, 15% average; peaches 94%, 1980 87%, 98% average; hay 78%, 1980 75%, 78% average. Phenological stages: cotton setting bolls 95%, 1980 99%; corn dough stage 98%, 1980 95%; corn dent stage 91%, 1980 85%; corn matured 66%, 1980 61%; soybeans blooming 85%, 1980 82%; soybeans setting pods 63%, 1980 50%.

**NORTH DAKOTA:** Showers and thunderstorms all sections on weekend. Well above normal amounts of moisture northeast, over 2.00 in. several locations. Near normal precipitation north central and south central. Well below normal east central, central and southeast. Temperatures averaged above normal all divisions. Extremes from 100° northwest to 45° southeast.

Small grain harvest made good progress until weekend showers. Moisture delayed harvest completion but was beneficial for row crops and pastures. Average of 5.8 days suitable for fieldwork. Small grain combining nearing completion most areas except northern counties. Progress about 10 days ahead of normal. Statewide, percents combined with last year and average: Hard red spring wheat 71, 46, 48; durum wheat 58, 24, 31; barley 86, 51, 69; oats 75, 61, 63; and flax 6, 13, 11. Winter wheat and rye virtually completed. Row crops mostly good to very good condition. More moisture still needed many areas. Rust still problem in dry beans. Blackbirds returning to sunflower fields. Row crop development near normal most crops. Sunflower 33% with ray flowers dried or dropped, 41% average. Dry bean swathing beginning. Killing of potato vines underway.

**OHIO:** It was a cool dry week. Temperatures averaged 3 to 6° below normal. Nighttime low

temperatures were especially cool over the northern part of the State as an unseasonably cold air mass spread into the State and dominated. Daytime highs averaged in the upper 70's to around 80. Mostly clear nights resulted in lows averaging in the upper 40's north to mid 50's. Coldest readings were some upper 30's in north central areas on the morning of the 18th. Daytime highs returned to the low to mid 80's during the latter half of the week. Growing degree day accumulations were short of normal by as many as 30. The weekly totals ranged from near 100 north to near 135 south. No measurable precipitation was recorded at any of the reporting locations. Normal totals for the period would be from 0.60 to 0.70 in.

Corn was rated fair to good. Cool nights have slowed plant development. The crop on the average about 5 days behind normal. Much of the acreage, though, much later than that. Corn rootworm beetles feeding on silks in some fields. Soybeans were rated fair. Moisture and growing degree days desperately needed for filling of pods before frost hits. The crop on the average about 15 days behind normal. Corn in dough or beyond 65%, 80% 1980, 75% average. Corn dented 15%, 25% 1980, 30% average. Soybeans pods setting or beyond 65%, 97% 1980, 95% average. Soybeans, pods set 20%, 65% 1980, 60% average. Alfalfa, 3rd cut 30%, 25% 1980, 30% average. Other hay, 2nd cut 85%, 75% 1980, 85% average. Tobacco topped 45%, 70% 1980, 65% average. Days favorable 6.5. Pasture condition fair. Soil moisture 75% short, 24% adequate, 1% surplus.

**OKLAHOMA:** Rainfall ranged from 0 in the west central to 0.75 in. in southeast. Temperature departures from normal ranged 5° below Panhandle to 9° below north central and southeast.

Scattered rains and cooler temperatures improved row crop and pasture conditions. Wheat seedbeds prepared: 30% 1981; 20% 1980; 30% average. Sorghum heading: 90% 1981, 80% 1980; 85% average. Sorghum milk-to-dough: 50% 1981, 45% 1980, 45% average. Sorghum mature: 15% 1981; 15% 1980, 10% average. Cotton setting bolls: 90% 1981, 70% 1980, 85% average. Days suitable for fieldwork: 5.0.

**OREGON:** Hot dry weather. Temperatures averaged up to 12° above normal. Trace of precipitation in coastal sections to 0.33 in. in the east by weeks end.

Soil moisture mostly short to adequate. Wheat harvest 88%, last year 87%. Fire danger high in fields. Barley and oats harvesting. Harvesting mint. Hay in second cutting and early third. Ground preparation in progress for fall seedings. Harvesting hops. Grass seed harvest nearly complete. Field burning continues. Harvesting bartlett pears and early apple varieties. Peach harvest continues. Prunes sizing well in Willamette Valley. Berry harvest nearly complete. Blueberry harvest continues. Sunburn detrimental to berry crops. Cranberries reddening in Clatsop County. Filbert and walnut orchards bothered by sunburn and insect damage. Potato harvest continuing. Onion harvest progressing. Snap beans nearly harvested. Sweet corn harvest beginning. Livestock condition rated good. Pasture and ranges are rated fair to good. Range fires a major concern.

**PUERTO RICO:** Island average rainfall 1.36 in. or 0.35 in. below normal. Temperatures averaged about 82° on Coasts and 79 to 76° Interior Divisions. Extremes: 94 and 63°.

**PENNSYLVANIA:** Sunny warm days and cool clear nights, with low humidity most of week. Temperatures 2 to 7° below normal with maximum mostly

70's to low 80's and minimum 40's to low 60's for coolest week since mid-May. Extremes: 86 and 34°. Driest week since May as no rain fell throughout the period.

Six days suitable. Soil moisture short to adequate. Activities: Baling straw; clipping pastures; spraying potatoes; plowing; and harvesting oats, potatoes, peaches, apples, cantaloups, watermelons, tomatoes, sweet corn, tobacco, and hay. Oats 94% combined; last year 85%. Tobacco 25% harvested; last year 16%. Potato harvest 25% complete; same as last year. Ensilage corn less than 5% harvested; last year 12%. Corn 98% silked, 71% in dough and 13% in dent; last year 100% silked, 64% in dough and 12% in dent; average 97% silked, 61% in dough and 11% in dent. Fall plowing 22% complete; last year 26%. Alfalfa second cutting 88% complete; same as last year. Third cutting alfalfa 44% complete; last year 35%. Second cutting Clo-Tim 71% complete; last year 86%. Hay quality good to fair. Feed from pasture average to below average.

**SOUTH CAROLINA:** Unseasonably cool. Lowest temperatures recorded at Chesterfield. The passage of Dennis along the coast during midweek produced up to 9.00 in. of rain.

Soil moisture adequate to surplus. Four days suited for fieldwork. Corn fair; 85% mature, 85 last year, 82 average; 22% harvested, 27 last year, 28 average. Cotton fair to good condition due to rainy conditions. Insecticide applications delayed; 14% open bolls, 48 last, 19 average. Soybeans good condition; insect pressures high, 86% blooming, 90 last year, 85 average; 49% setting pods, 55 last year, 56 average. Tobacco looks good, harvest slow due to wet fields; 78% harvested, 77 last year, 88 average. Peanuts fair to good. White mold reported in some areas. Peaches in good condition, harvest season nearly complete at 96% compared to 91 last year. Apple condition good, cool temperatures aid in coloring; 7% harvested, 7 last year, 20 average. Fall cucumbers 74% planted, 54 a year ago. Fall snap beans 57% planted, compared to 47 last year. Pastures and sorghums in good condition but under heavy armyworm attack in isolated areas.

**SOUTH DAKOTA:** Precipitation scattered. Most areas received under 0.50 in. Northeast received heaviest amounts. Temperatures 1 to 4° above normal. Extremes: 101 and 40°. Topsoil moisture adequate in southwest, through center of State, and a small area in east central. Area critically short from northeast to east central and central. Short elsewhere. Small grain harvest mostly completed. Six days suitable. Row crop conditions corn 84%, soybeans 87%, sorghum 93%, and sunflowers 91% of normal. Range and pasture condition 74%. Second cut alfalfa 76% complete. Spring wheat harvested 92%, 1980 100%, average 83%. Soybeans bloom or beyond 95%, 1980 100%, average 100%. Soybeans setting pods 80%, 1980 94%, average 94%. Corn silked 95%, 1980 100%, average 100%. Corn dough 57%, 1980 65%, average 62%. Corn dented 19%, 1980 24%, average 25%. Sorghum headed 87%, 1980 78%, average 81%. Sorghum showing colors 29%, 1980 24%, average 18%. Sunflowers bloom or beyond 91%, 1980 91%, average 89%.

**TENNESSEE:** A stationary cold front to the south caused temperatures to drop from 1 to 6° below normal. The entire State recorded precipitation with some areas receiving significant totals.

Fieldwork: 3.7 days suitable. Soil moisture adequate. Soybeans blooming 100%, 1980 100%, average 92%; setting pods 67%, 1980 73%, average 56%. Cotton open bolls 12%, 1980 and average 6%. Bollworm larval population increasing and some growers spraying. Corn in dent stage 79%, 1980 71%, average 50%; mature 19%, 1980 21%, average 13%; harvested 3%, 1980 1%. Burley tobacco 85% topped; harvest 44% completed, 1980 22%, average 20%. Dark-fired harvest 50%, 1980 20%, average

21%. Air-cured harvest 56%, 1980 27%, average 25%. Some burley tobacco damaged by rain. Pastures in fair condition. Most livestock in good condition. Lespedeza hay harvest 54%, 1980 51%, average 42%. Harvest of the second crop of snap beans underway.

**TEXAS: Weather:** Cool front pushed through State bringing widespread showers, thunderstorms, cooler temperatures. By weeks end, dry weather returned. Temperatures below normal across North, West Texas. Elsewhere temperatures near normal. Despite rains, rainfall below normal.

**Range and livestock:** Range, pasture conditions improved. Panhandle, grazing short, rains promoted growth. Conditions throughout State good, more rain needed to sustain growth. Livestock in mostly good to excellent condition.

**Commercial vegetables:** Rio Grande Valley, planting of cucumbers, carrots active, seeding of fall crops continuing. Rain helpful although irrigation resumed. San Antonio-Winter Garden area, fall planting activity resumed. Progress good. East Texas, watermelon harvest in final steps. Sweetpotatoes excellent, harvest getting underway. Trans-Pecos region, cantaloup harvest resumed, light supplies of chili peppers, onions available. High Plains, onions, potato harvest winding up. Yields, quality good. Some cucumbers, tomatoes, peppers available. Peach harvest continued North Texas, Panhandle. Quality, quantity good. Pecan maturing rapidly, entering shell hardening.

**Crops:** Showers fell, providing relief from recent dry, hot conditions. Cloud cover helped reduce temperatures. Field crops benefited from added moisture, outlook for crops good. Cotton developing well, aided by rains during recent weeks. Plains conditions good, because of additional rain, irrigation activity lessened. Blacklands, Cross-Timbers plants setting fruit, heavy with bolls. Harvest continues Rio Grande Valley, South Texas, getting underway Gulf Coast. Central Texas to High Plains insect populations building, bollworms causing damage to squares, bolls. Droppage of bolls decreased as plants received relief from moisture. Statewide, cotton 20% excellent; 62% good; 18% fair. Sorghum maturing rapidly. Harvest Valley nearly complete, well underway South Texas, Coast. Yields good. Despite rain, harvest Blacklands, Cross-Timbers made good progress. Insect continue to build, damage light. Reported condition 22% excellent; 66% good; 12% fair. Harvest of corn continued, good progress being made South, Central Texas. Activity underway Cross-Timbers, Blacklands. Yields, quality good to excellent. Irrigation activity Plains, resumed although rains helpful in reducing frequency. Currently, condition 23% excellent; 67% good; 10% fair. Soybeans showing good development, aided in pod setting, filling by recent rains. Fields along Coast aided by additional moisture, continue to bloom, set pods. Rice harvest resumed following showers. Peanuts under moisture stress, rains helpful in reviving many fields. Cotton squaring 100%, 100% 1980. Cotton setting bolls 96%, 99% 1980. Cotton open bolls 19%, 22% 1980. Cotton harvested 7%, 11% 1980, 9% average. Rice turning color 97%, 100% 1980. Rice harvested 89%, 100% 1980, 93% average. Sorghum headed 93%, 93% 1980. Sorghum turning color 69%, 73% 1980. Sorghum mature 65%, 70% 1980. Sorghum harvested for grain 64%, 68% 1980, 59% average. Corn for grain harvested 31%, 38% 1980, 26% average. Peanuts harvested 6%, 2% 1980, 9% average.

**UTAH:** Scattered areas shower and thunderstorm activity. Accumulated amounts moisture generally light to moderate but locally heavy with some hail few localities southern portion. Rising trend in temperatures to average generally above normal. Averages ranged between 3° below and 8° above.

Farm activities interrupted by a few light

showers. Small grains mostly harvested. Fall seeding of wheat and barley active where moisture adequate. Third crop alfalfa 25% cut. Yields vary depending on irrigation water supply. Corn tasseled and developing grain. Some fields have thin stands and uneven growth because of spring frosts. Harvest of peaches and canning vegetables active. High mountain ranges remain in good condition, at lower elevations ranges dry.

VIRGINIA: Temperatures below normal with average of 70°. Early light rain in the west, heavier in the east late in the week. Statewide precipitation averaged 0.80 in. Tropical storm Dennis brought some rain to eastern areas but other areas remain short to adequate.

Topsoil moisture 38% short, 58% adequate, and 4% surplus. Days suitable for fieldwork: 5.3. Corn: Good to excellent condition; 91% dough, 68% 1980; 68% dent, 34% 1980; 21% mature and 2% harvested for grain. Wet fields from Dennis slowed harvest southeast. Soybeans also good to excellent condition, early plantings blooming and setting pods, late plantings growing well. Scouting and spraying for corn earworms. Peanuts received beneficial rain, spraying for leafspot and insects. Tobacco harvest continued. Flue-cured tobacco 45% pulled, 25% 1980, 29% average. Fire-cured tobacco 34% harvested, 12% 1980, 19% average. Sun-cured tobacco 29% cut, 5% 1980, 13% average. Burley harvest nearly at a standstill, 10% harvested, 6% 1980, 8% last year. Tobacco in good to excellent condition but some growers irrigated during the week. Pastures generally good to excellent condition but western areas only fair. Hay making and pasture clipping continued. Alfalfa fields and pastures being seeded. Peach harvest winding down, truck crops still plentiful. Good apple crop expected. Livestock in good condition.

WASHINGTON: West: Temperatures averaged nearly normal in the coastal and San Juan areas. Bellingham south to Longview averaged 4 to 6° above normal. Precipitation was very low with a little reported in the coastal and San Juan areas, none elsewhere. Soil moisture ranged from poor to adequate, due to lack of rain. Crops harvested were blueberry, blackberry, vegetables, vegetable seeds, and wheat. Christmas tree shearing underway. Hay and pasture feed supplies adequate.

East: Temperatures averaged 6 to 9° above normal. No precipitation in many areas with less than normal elsewhere except much above at Wapato and Wehatchee. Bartlett pears, prunes, peaches, and early apples harvested. Apples continue to size though behind last year. Potato and sweet corn harvests continued as well as few fields of dry beans. Mint harvest near completion while hop harvest about to begin. Grain harvest progressing rapidly. Winter yields reported good, while spring

wheat and barley yields below last year's record yields. Range and pasture feed adequate.

WEST VIRGINIA: Temperatures below normal. High 88°, low 33°. Precipitation below normal; range 0 to 0.41 in.

Soil moisture short to adequate. Days suitable for fieldwork: 5.6. Main activity, hay harvesting. Oats good to fair; 90% harvested, 84% in 1980. Corn good to fair, 10% pre-silked, 62% silked, 28% dough stage; 8%, 55% and 37% in 1980. Tobacco fair condition, 48% topped, 8% harvested, 73% and 25% in 1980. Hay good to fair, 2nd cutting 52% complete, 54% in 1980. Pasture fair to good. Potatoes fair to good; 37% harvested, 30% in 1980. Fruit poor to fair. Gardens fair to good.

WISCONSIN: Fair, dry weather and unseasonably cool temperatures prevailed on the 16th, 17th, and 18th. Highs were generally 60's and 70's and the lows in the 30's and 40's. Several record lows were recorded. Temperatures moderated to more seasonable levels by midweek, but the dry weather continued. Generally cloudy skies on the 21st and scattered light showers fell across the north half of State. Rainfall ranged from trace amounts to 0.10 in. Partly cloudy skies and dry weather prevailed through weekend. The highs were in the 70's and 80's, overnight lows were in the 50's and 60's.

Fieldwork: 6 days suitable. Oat and 2nd crop hay harvest progressed due to dry week; oats 83% complete, 73% for 1980, 71% average. Second crop hay 79% complete, 85% for 1980, 75% average. Corn still looking good, 57% in dough, 64% for 1980, 46% average. Fifteen percent reported in dent, 26% for 1980, 17% average. Topsoil moisture supplies at 21% short, 74% adequate, and 5% surplus.

WYOMING: Most stations reported above normal temperatures. Highest temperature 101° in Big Horn Drainage. Lowest, 36° Snake Drainage. Below normal precipitation most reporting stations. Greatest amount at Newcastle with 1.72 in.

Topsoil moisture short 52% State. Most winter wheat harvested. Spring wheat mature: 85%; year ago 80%; normal 88%; harvested: 40%; year ago 65%; normal 67%. Oats mature: 65%; year ago 80%; normal 78%; harvested 40%; year ago 55%; normal 55%. Barley mature: 85%; year ago 80%; normal 89%; harvested: 65%; year ago 60%; normal 66%. Corn in milk: 75%; year ago 60%; in dough stage: 50%; year ago 20%; denting: 10%; year ago 5%. Dry beans setting pods: 70%; year ago 90%; leaves turning color: 25%; year ago 35%. Row crops mostly good condition. Winter wheat seeded in a few fields; year ago 5%; normal 13%. Stored feed supplies near normal. Some light livestock movement due to scarcity of grass.

#### MEDFLY SITUATION REPORT

The quarantine area covers all of Santa Clara, San Mateo and Alameda Counties, the northern half of Santa Cruz County and 240 square miles in Western Stanislaus County. Total quarantine area is now over 2,400 square miles.

Stanislaus medfly finds have been limited to one apricot orchard near Westley. This area has now been sprayed 3 times, twice by the State and once using a stronger pesticide by growers in the area. One fly was found in the orchard last week.

Spraying in the Santa Clara Valley and Santa Cruz County continues on a regularly scheduled basis. Two native medflies were found on the 19th in the Newark area, outside the spray area but inside the quarantine area. The spray area will be increased by about 20 square miles.

Fixed wing aircraft (DC-4's) have arrived and were to begin spraying on the morning of the 22nd. The total spray area now covers approximately 700 square miles.

Korea, Tiawan and Yap imposed embargoes as of August 15. Japan imposed an embargo as of August 19. Negotiations still in progress have eased somewhat the Japanese restrictions. More the \$150 million of fruits, nuts and vegetables were exported to Japan through 3 California ports. The largest dollar value of affected crops is for almonds. Exports to Korea, Tiawan and the island of Yap have not been tabulated yet.

Movement of fruit out of the quarantine area continues to be a problem. Fruit is being confiscated in inspections of vehicles and from air and rail traveler's luggage. Major commodities were being treated with methyl bromide. Other regulatory activities included

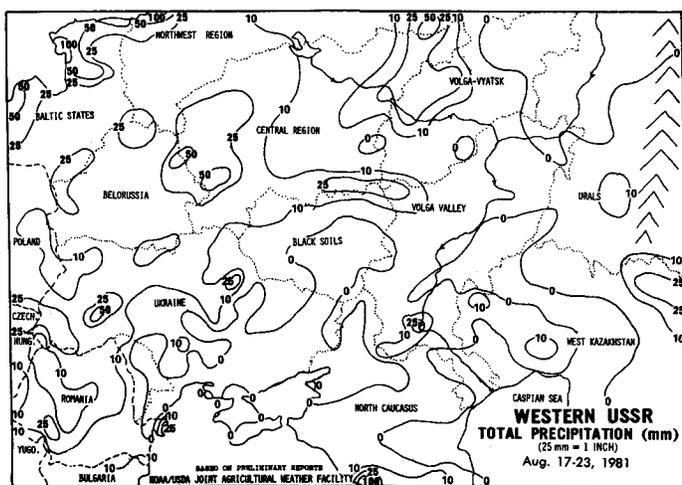
the inspection of roadside stands, processors, wholesalers, landfills, post office/UPS stations, bus depots and growers.

Shipments continue heavy for peaches, plums, nectarines, tomatoes, and peppers. Table grape harvest is gaining momentum in the San Joaquin Valley.

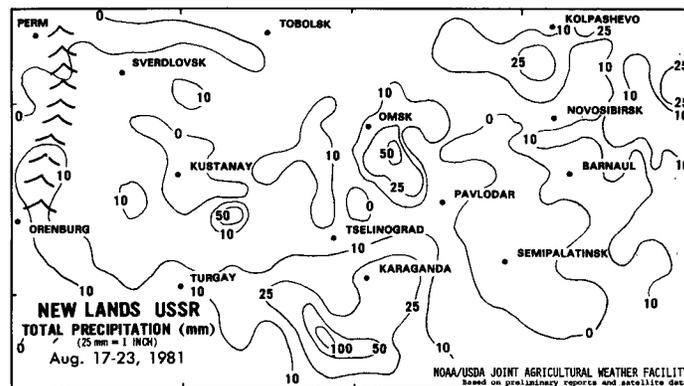
### International Weather and Crop Summary

HIGHLIGHTS  
August 17-23, 1981

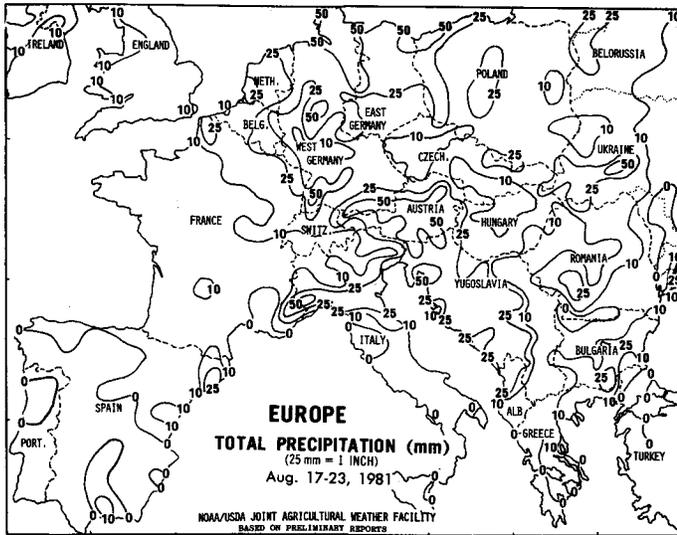
- USSR:** Cool, wet weather in west, but warm and dry elsewhere in European USSR. Warm harvest weather with locally heavy showers in New Lands.
- EUROPE:** Wet weather over the central region delayed final winter grain harvesting.
- CANADA:** Wet weather delayed harvest in east; some showers in the west.
- MEXICO:** Dry weather aids cotton harvest; showers benefited corn crop; northern citrus continues to be stressed.
- SOUTH AMERICA:** Mostly dry, mild weather; spring growth began.
- EASTERN ASIA:** Heavy rains inundated Sichuan and Shaanxi.
- AUSTRALIA:** Showers in the south, dry in the north; adequate soil moisture for early growth.
- SOUTH ASIA:** Local flooding possible in northcentral area; dry conditions stressed crops in northwest and central India.
- SOUTHEAST ASIA:** Flooding in extreme western Thailand and southern Burma; mostly light rain elsewhere.



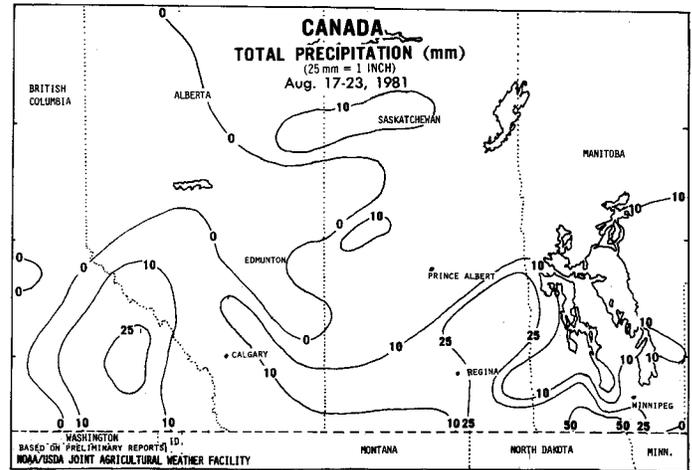
USSR: Wet weather and below-normal temperatures returned over western European USSR. Locally heavy amounts occurred, but overall, rainfall ranged from 10 to 25 mm. Ground preparations and sowing of winter grains may have been interrupted at a few locations. A persistent high pressure center over eastern European USSR limited precipitation to light, widely scattered showers,



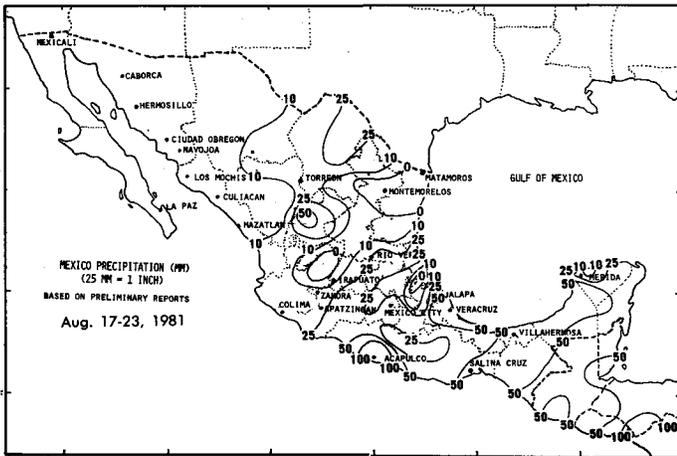
and caused above-average temperatures, in central and eastern European USSR. These hot, dry conditions helped spring grain harvesting, but placed continued stress on corn areas in the late filling stage. In the New Lands, a weak frontal system stalled over the central area, producing heavy rainfall at some locations and interrupting harvest activities. However, in both the west and east, dry weather aided spring grain harvesting. In general, temperatures were above normal throughout the week.



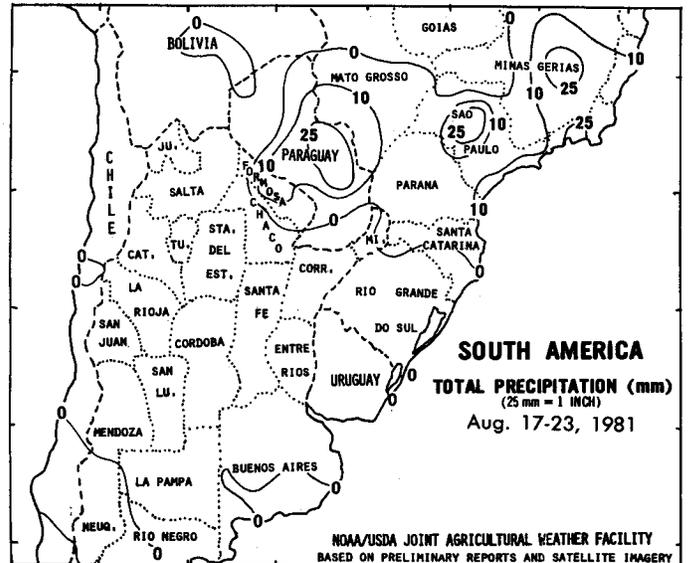
**EUROPE:** Two frontal systems moving through the area during the week produced below-normal temperatures and widespread rains. Heaviest amounts, 25 to 50 mm, were concentrated over the central region, delaying final grain harvesting efforts. However, harvest progress remained generally ahead of 1980. Light intermittent rainfall benefited maturing spring grain in England and caused few delays in the winter grain harvest in France. In eastern Europe, wet weather briefly interrupted winter grain harvesting at some locations. The persistent wet pattern may now be adversely affecting grain quality. Increased precipitation in the southeast benefited corn development. Most Mediterranean areas had seasonably dry weather.



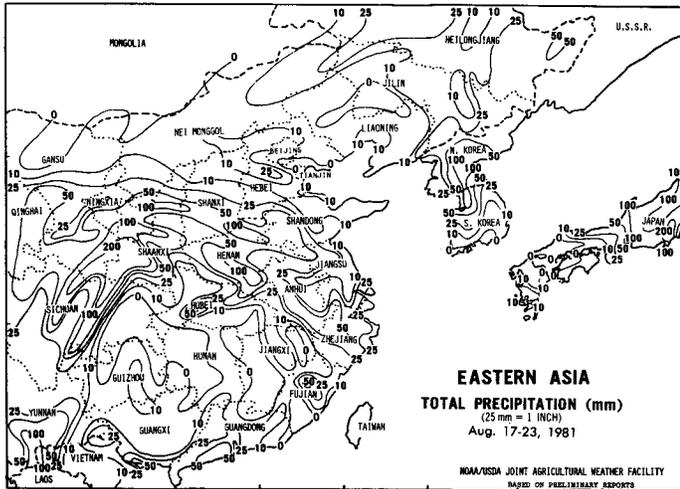
**CANADA:** Showery weather, associated with the passage of frontal systems through the Prairie Provinces, produced locally heavy rain in the eastern Wheat Belt. The wet field conditions interfered with the wheat harvest in southern Manitoba and eastern Saskatchewan. Unsettled weather early in the week occurred again at week's end in eastern crop areas, prolonging unfavorable harvest conditions. Elsewhere, relatively light rain fell early in the week followed by mostly dry weather, allowing the harvest to progress in western Saskatchewan and Alberta. The inclement weather in the Prairies generally slowed the pace of the wheat harvest, but the overall progress to date has been very good. Dry weather is needed in the eastern portion of the Wheat Belt.



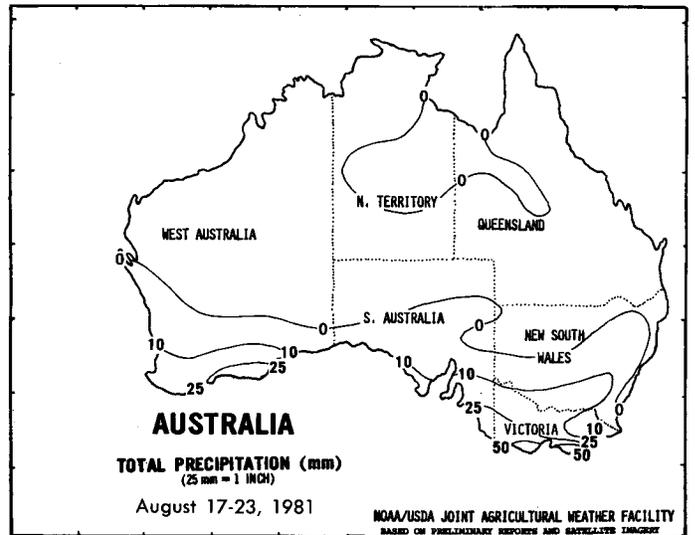
**MEXICO:** Persistent dry weather continued over northern citrus orchards in eastern Mexico. Reduced fruit size will likely result in non-irrigated orchards. In contrast, moderate rains benefited citrus further south. Overall, seasonably hot, dry weather over northcentral cotton areas aided cotton harvesting. Dry weather over northwest watersheds was less than favorable for raising reservoir levels enough to support irrigation requirements for vegetable production further south. Modest rains helped early maturing corn in the southern plateau. In the Yucatan Peninsula, corn areas continued to receive beneficial rains. Moderate but lesser precipitation fell over the sugarcane fields around Veracruz.



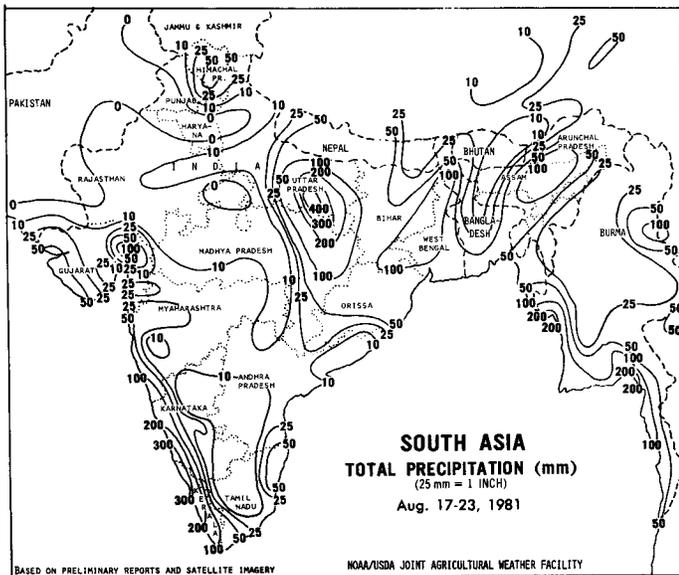
**SOUTH AMERICA:** Scattered light showers occurred in Brazil's coffee-growing areas of Minas Gerais, Sao Paulo, and Parana. Weekly rainfall totals were generally less than 10 mm except for isolated areas with greater than 25 mm. The wheat areas of both Brazil and Argentina were mostly dry. A major portion of the wheat crop is in the jointing stage of development. Early spring growth will begin to accelerate with warmer weather. Rainfall has been below average during the past several weeks, but climatologically, this is normally a period of relatively low rainfall. Spring rains usually increase in frequency during September and October. Thus, dry topsoils at this time are not alarming as long as timely rains begin in the next few weeks to provide a favorable start of vigorous spring growth.



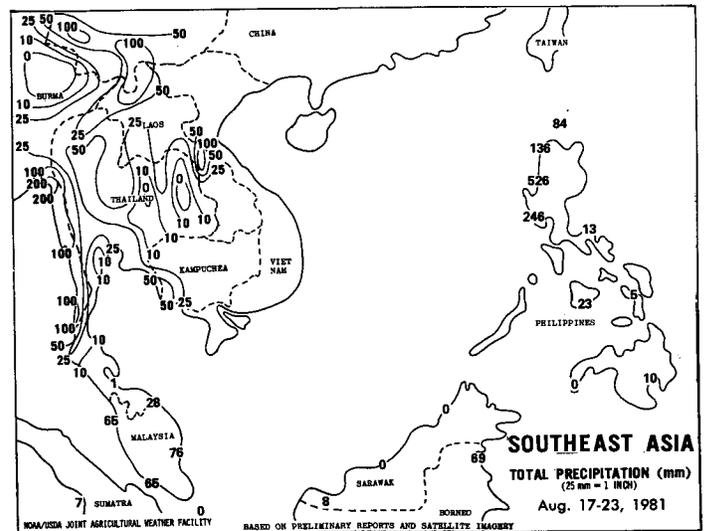
**EASTERN ASIA:** Heavy rains inundated the central China Provinces of Sichuan and Shaanxi. Weekly rainfall in excess of 200 mm was widespread throughout this major rice- and corn-producing area. Showers continuing over the previously dry areas of Hebei and Henan should benefit crops. Significant rainfall in northeastern China caused already swollen rivers to rise further in the Manchurian Valley and kept fields saturated. Abundant rains in Korea aided crop development, although western portions could use additional rainfall since this area is somewhat below the seasonal average. Typhoon Thad moved across Japan's main island of Honshu, dumping over 100 mm of rain late in the week. Southern China was mostly dry, except for coastal regions and the western province of Yunnan.



**AUSTRALIA:** The rainfall pattern is typical of the past few weeks, with showers occurring in southern crop areas while mostly dry weather prevailed in northern wheat areas. Weekly rainfall totals in South Australia and Victoria were near the seasonal average. Dry weather continued in Queensland and northern New South Wales. Crop conditions remain favorable during this relatively low evaporative demand period. Crop growth will increase at a faster rate, however, as temperatures begin to rise in the spring. Adequate soil moisture is available in nearly all wheat areas to meet the increasing crop moisture demands during vegetative growth.



**SOUTH ASIA:** Heavy rains occurred over north central India late in the week. Rainfall amounts ranged from 100 to 400 mm, probably causing some local flooding and somewhat unfavorable conditions for most crops, including rice. Rains favorable to both cotton and groundnuts continued over Gujarat. Continued dry conditions over the northwest stressed cotton and rice. Unfavorably dry weather stressed crops over central India. Beneficial rains over southeast coastal areas aided rice growth. Heavy rains continued over northeastern India and much of Assam during the week.



**SOUTHEAST ASIA:** Significant shower activity in Thailand was confined mostly to northern and extreme western portions of the country. The heavy rains of the past few weeks in southern Burma and extreme western Thailand have caused flooding in those areas. Rice paddies in Burma and sugarcane fields in Thailand have been most affected by the flooding. Over one-half of Thailand's sugar crop is grown in an area to the west of Bangkok, adjacent to Burma. Relatively light rainfall in eastern Thailand was favorable for harvesting corn. The monsoon has been somewhat inconsistent in this area with some stations beginning to show increasingly below-average cumulative rainfall for the season. However, rice-growing areas have benefited from generally good rains.

**IMMEDIATE - U. S. Weather Report**

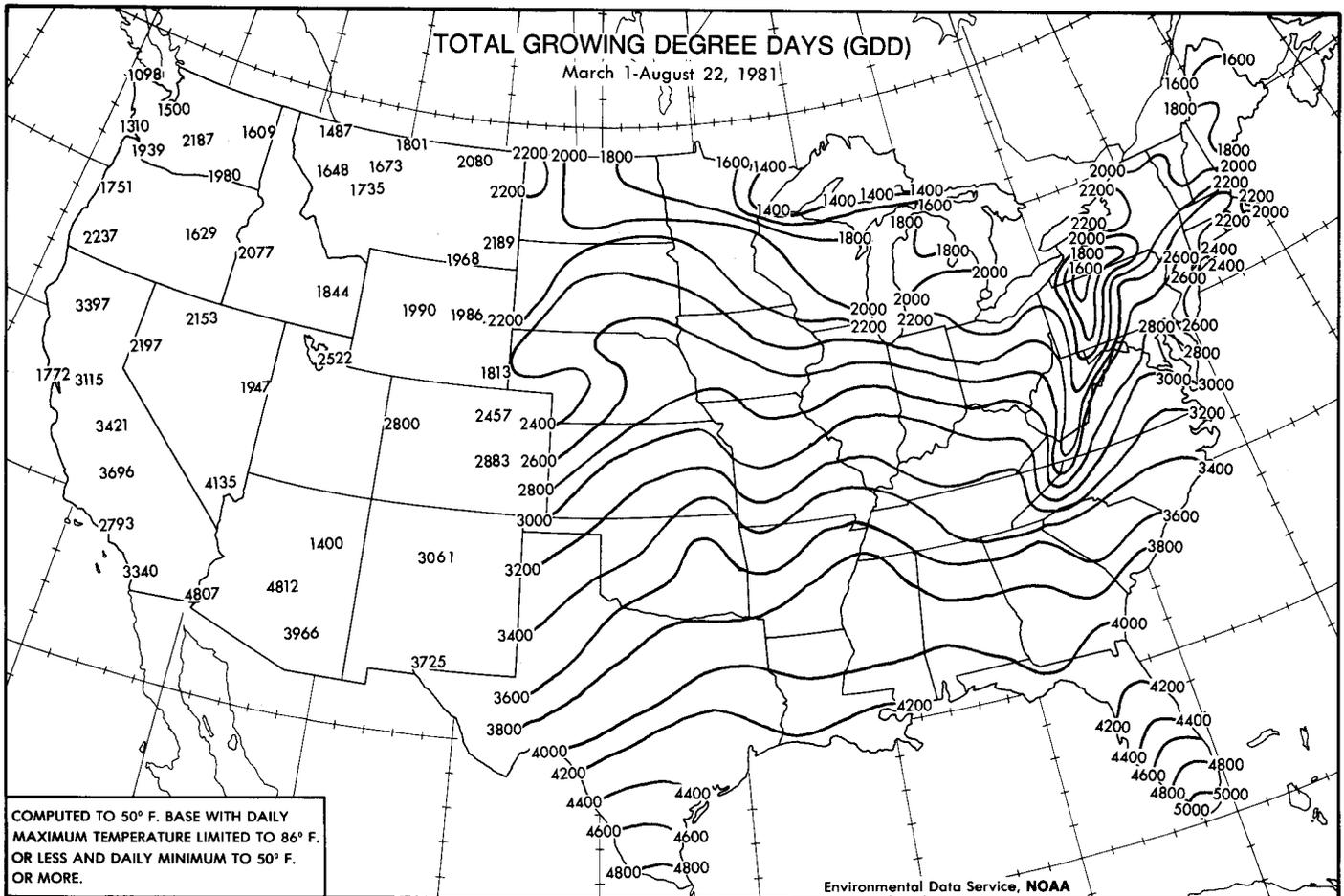
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