

WEEKLY WEATHER AND CROP BULLETIN

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

U.S. DEPARTMENT OF AGRICULTURE
National Agricultural Statistics Service and World Agricultural Outlook Board

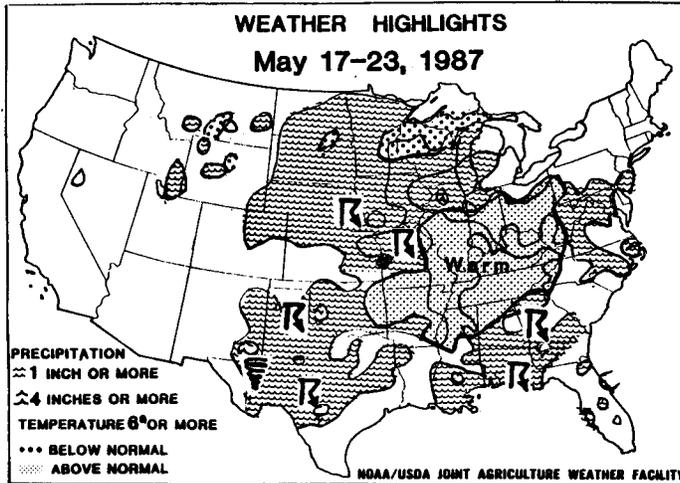
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May 27, 1987

National Weather Summary

May 24 to 30, 1987



HIGHLIGHTS: Showers and thunderstorms were widespread in nearly all of the United States. Showers or thunderstorms, occasionally accompanied by severe weather, occurred almost daily in all the States east of the Rocky Mountains. Severe weather was most frequent in the southern Great Plains and the Southeast. Moderate to heavy showers covered most of the Corn Belt, but parts of the lower Ohio Valley into Tennessee had only light rain. Much cooler weather covered much of the West and, after midweek, pushed into the central and northern Plains, the Great Lakes, and northern New England. Freezing weather covered western Montana and the higher elevations of the Rockies.

SUNDAY...Thunderstorms were widespread from the lower and middle Mississippi Valley across the lower Great Lakes. A storm system in the central Great Plains triggered heavy rain and severe weather in the central and northern Plains and lighter showers from the Southwest and central Plateau to the northern Rockies. Warm weather covered most of the East, South, and Southwest.

MONDAY...Showers and thunderstorms were widespread over much of the Nation. Moderate to heavy rain fell from Wisconsin and northern Illinois to central Pennsylvania and western Maryland. Temperatures reached the nineties in parts of Iowa, but it was much cooler north of that area.

TUESDAY...A few light showers developed in California and from the Intermountain region to the western Rockies. More widespread showers and thunderstorms covered the Plains, the Great Lakes, the Ohio Valley, and the East Coast States from southern New England to Florida. Cool weather covered the West and the northern tier of States.

WEDNESDAY...Thundershowers covered much of California, the Intermountain area, and the Rocky Mountains. A storm system in the central Plains was triggering heavy showers and severe weather through the central and northern Plains, the upper Mississippi Valley, and the Great Lakes. A stationary front across the Midwest triggered lesser storms from Mid-Atlantic States to the middle Mississippi Valley. Freezing temperatures covered the western Praries in Canada and pushed into much of Montana.

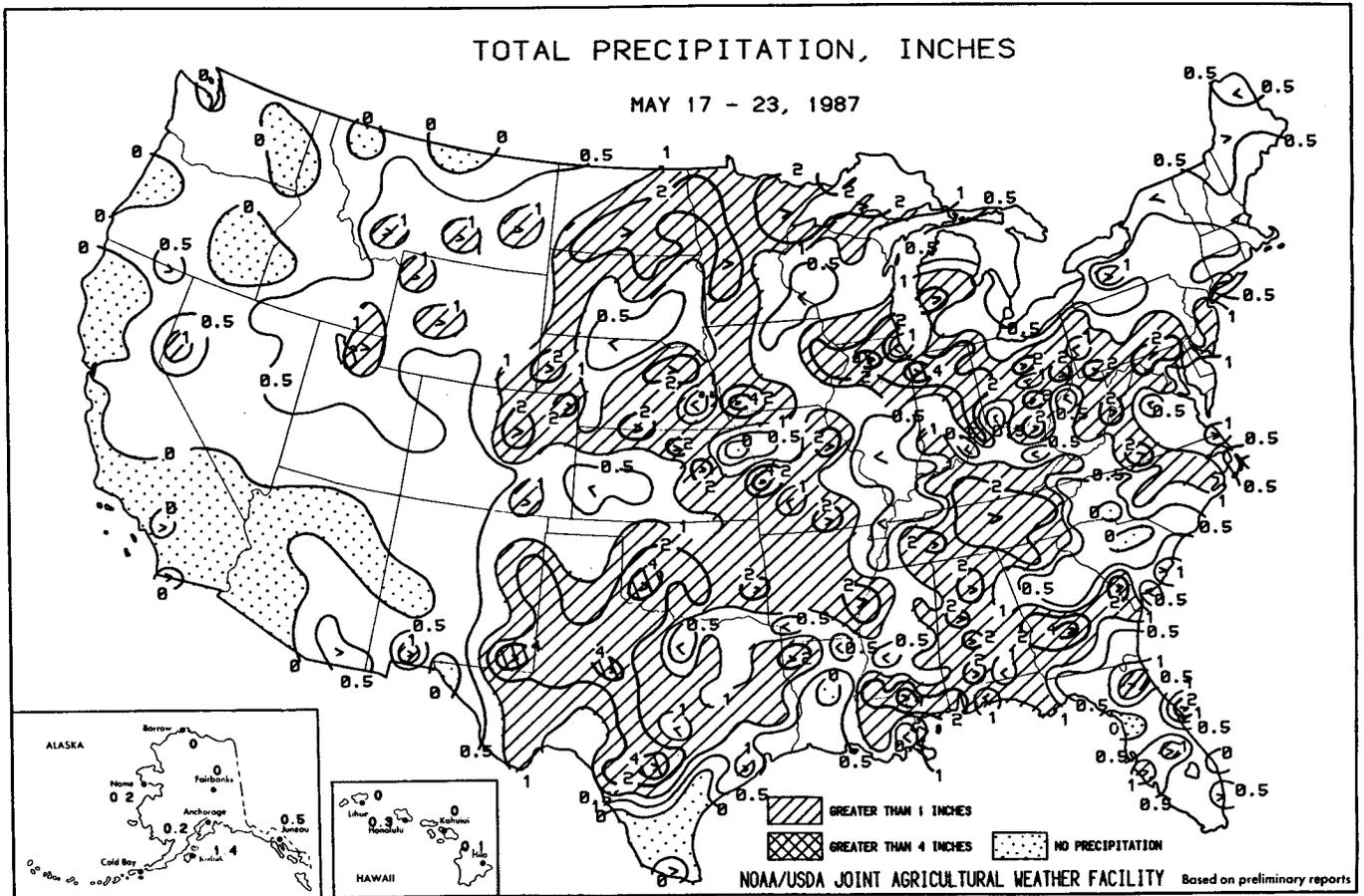
THURSDAY...Colder weather pushed over the central and northern Plains as freezing temperatures covered south-central Canada. Showers and thunderstorms covered nearly all of the Nation except parts of the West Coast States. Severe storms covered the upper Mississippi Valley and along a line from central Oklahoma to west-central Illinois. Less widespread storms covered the upper Tennessee Valley and parts of Florida.

FRIDAY...Severe thunderstorms rumbled from eastern New Mexico into south-central Oklahoma and parts of Arkansas. Less severe showers and thunderstorms covered the Rockies and Intermountain area, and from Texas and Oklahoma through the lower Mississippi Valley. Showers also fell from the Great Lakes through the Northeast, with moderate rain in western New York.

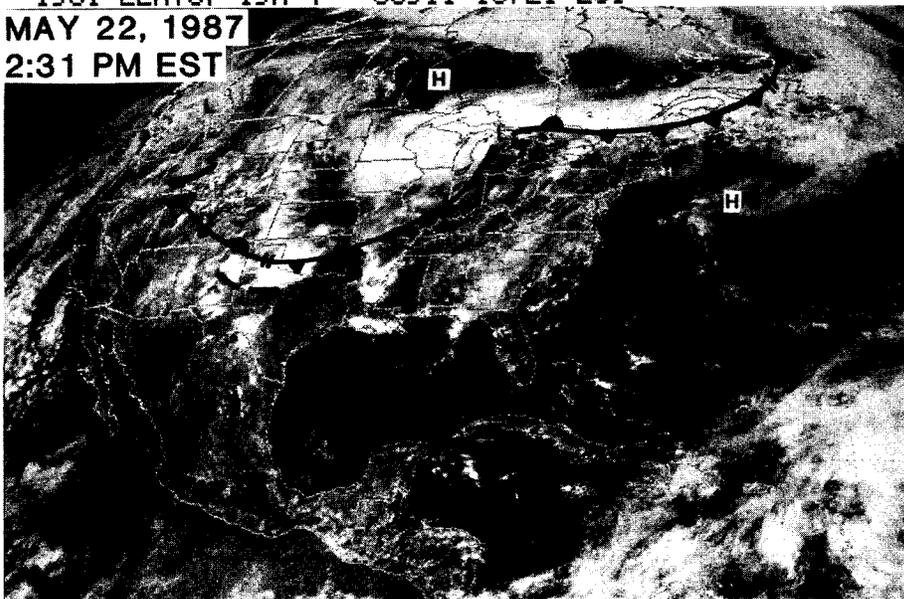
SATURDAY...Thunderstorms were widespread throughout the Great Plains, the Rockies, the lower Mississippi and Tennessee Valleys, and much of the Northeast. Storms were severe in much of Texas, from southeastern Kansas to central Arkansas, and from eastern Colorado through the Nebraska Panhandle. Cooler weather pushed into most of the West, the central Plains, the Great Lakes, and northern New England.

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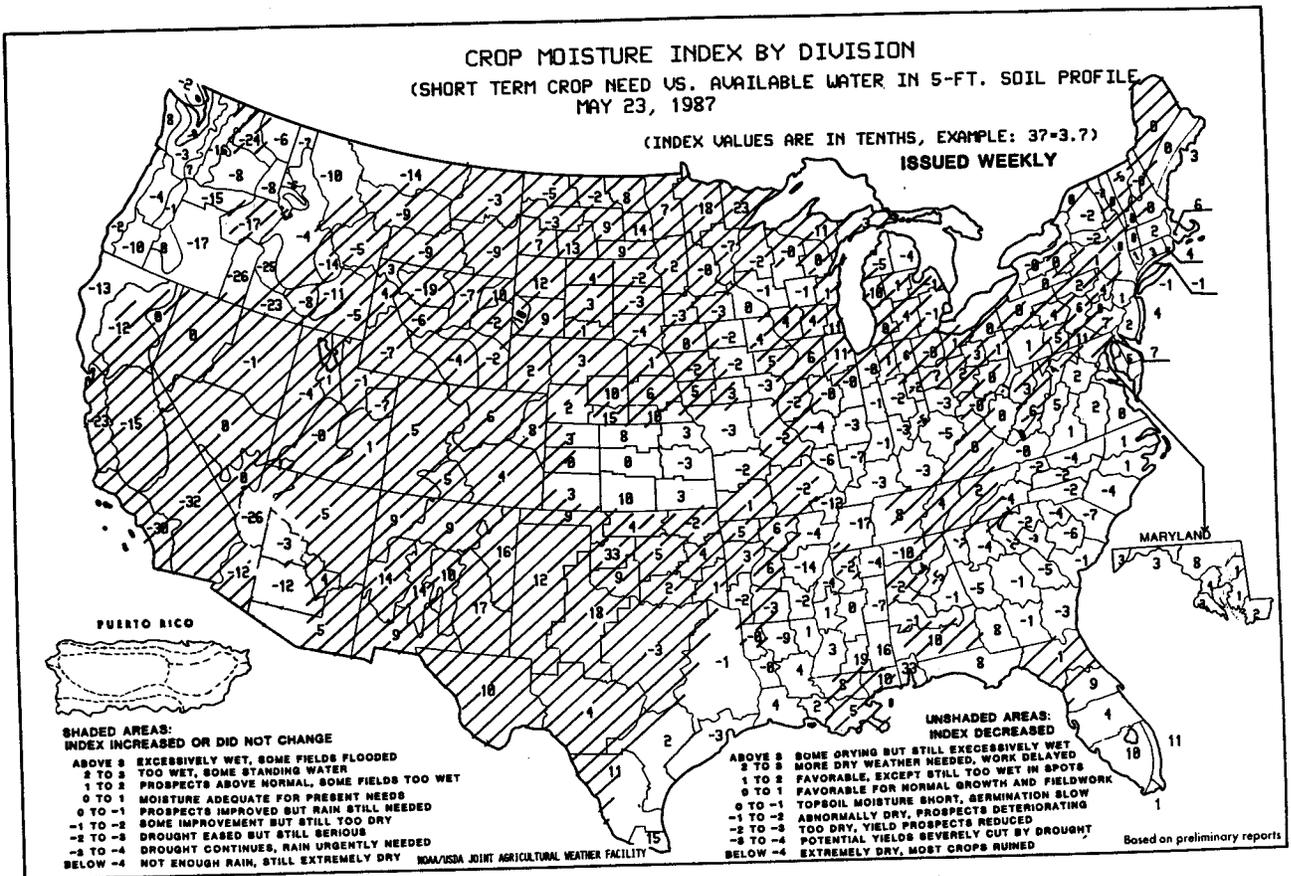
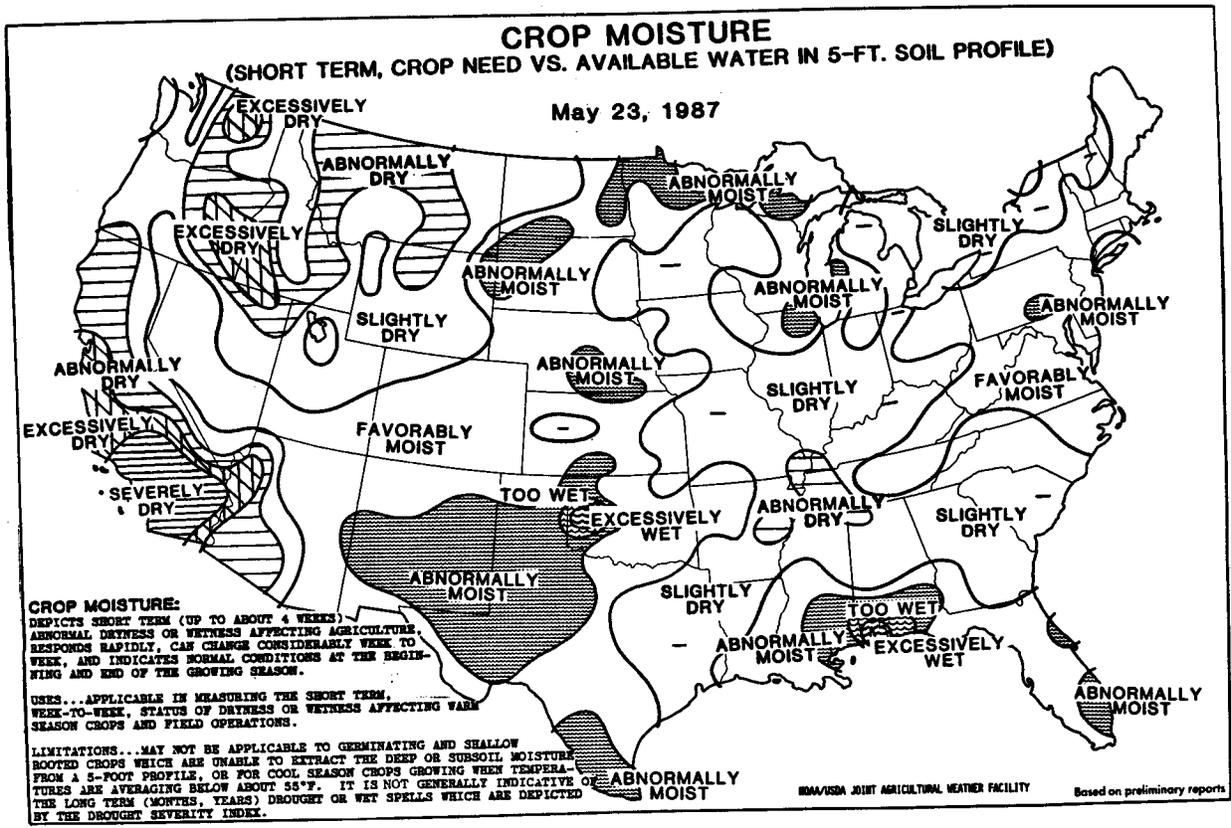


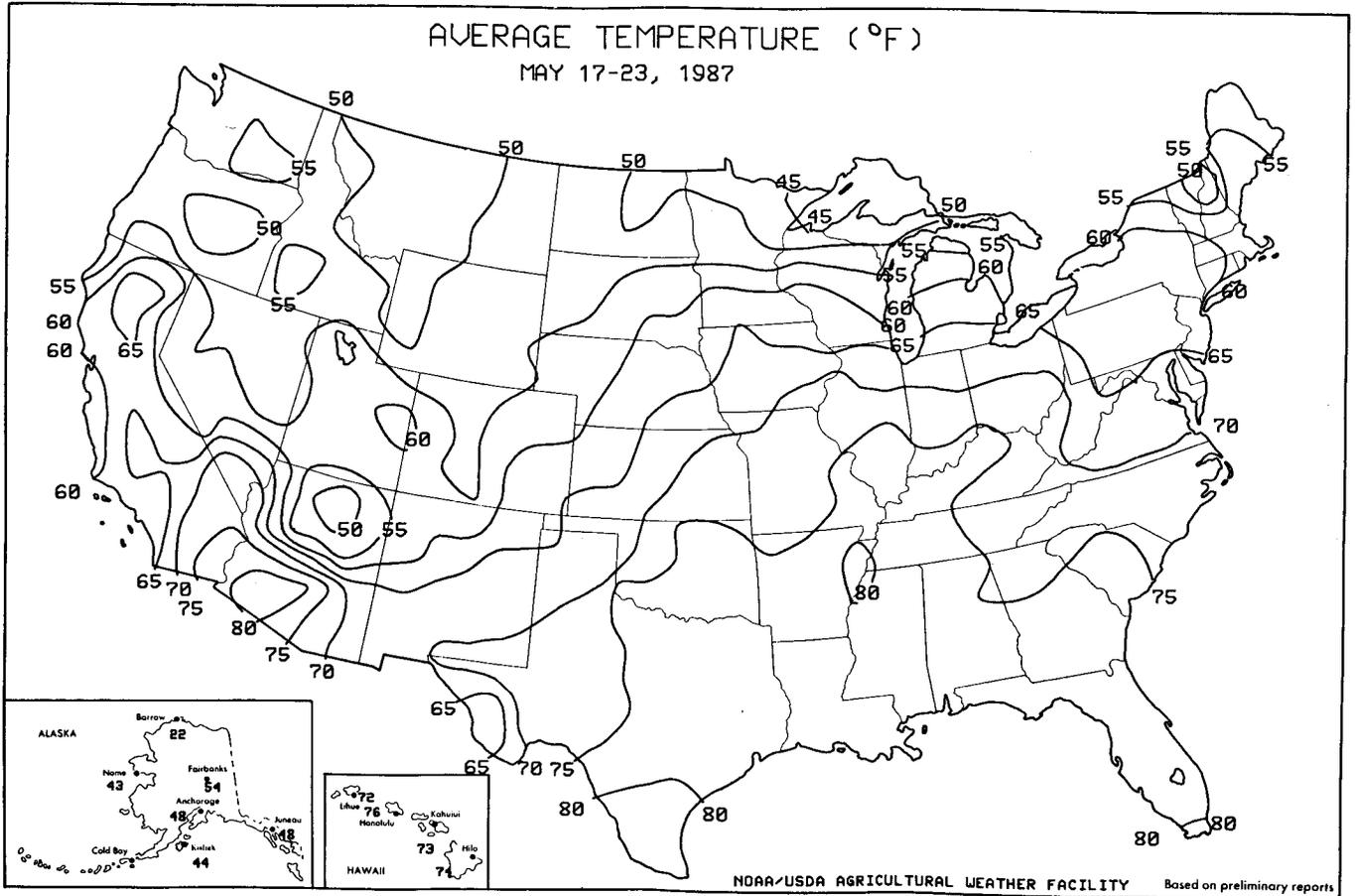
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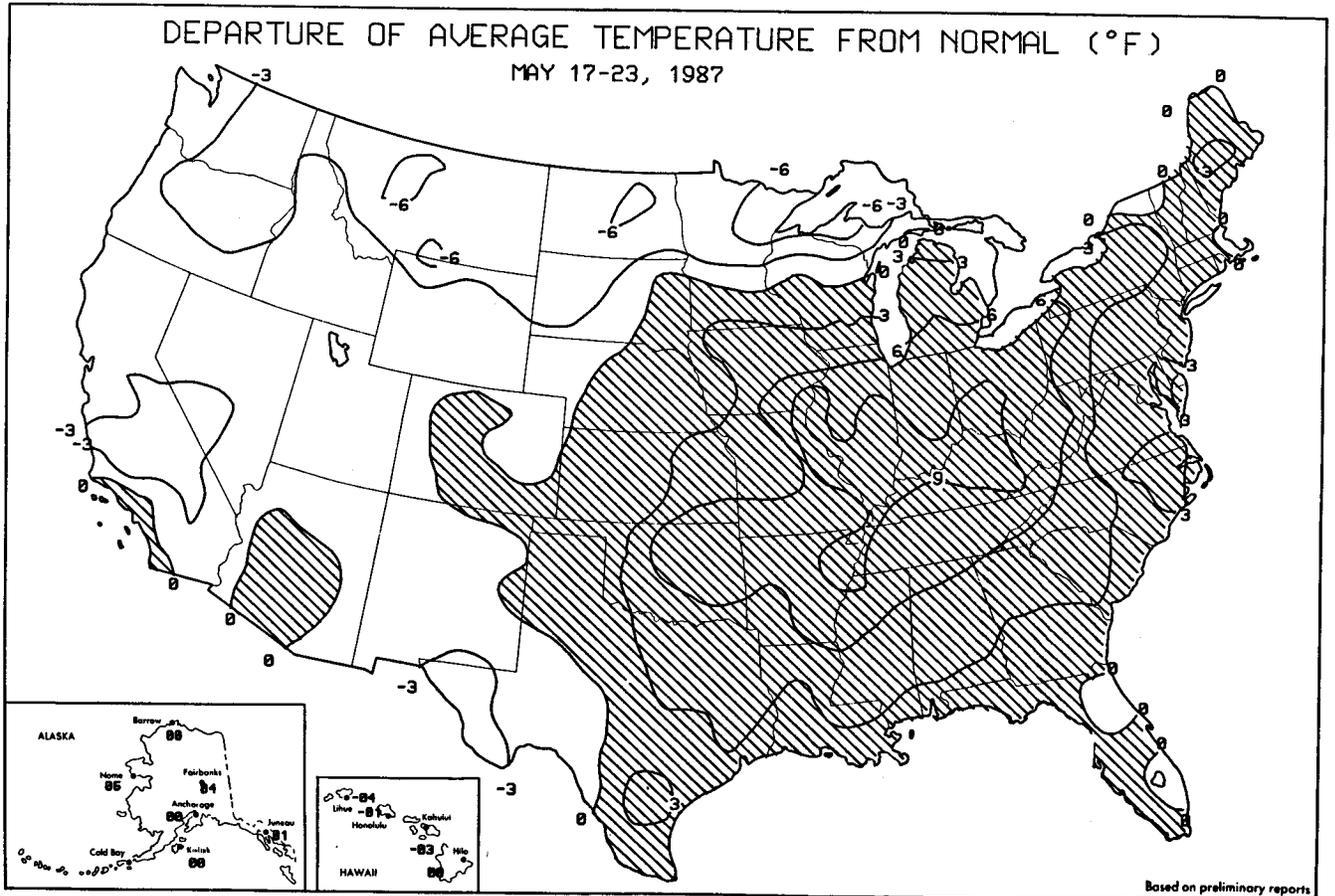
SEVERE THUNDERSTORMS ARE AHEAD OF A COLD FRONT IN OKLAHOMA AND NORTHERN TEXAS. SCATTERED THUNDERSTORMS ARE SPREAD ALONG THE GULF COAST OF LOUISIANA AND FLORIDA.

LIGHT PRECIPITATION FALLS FROM THE UPPER MISSISSIPPI VALLEY TO NEWFOUNDLAND.



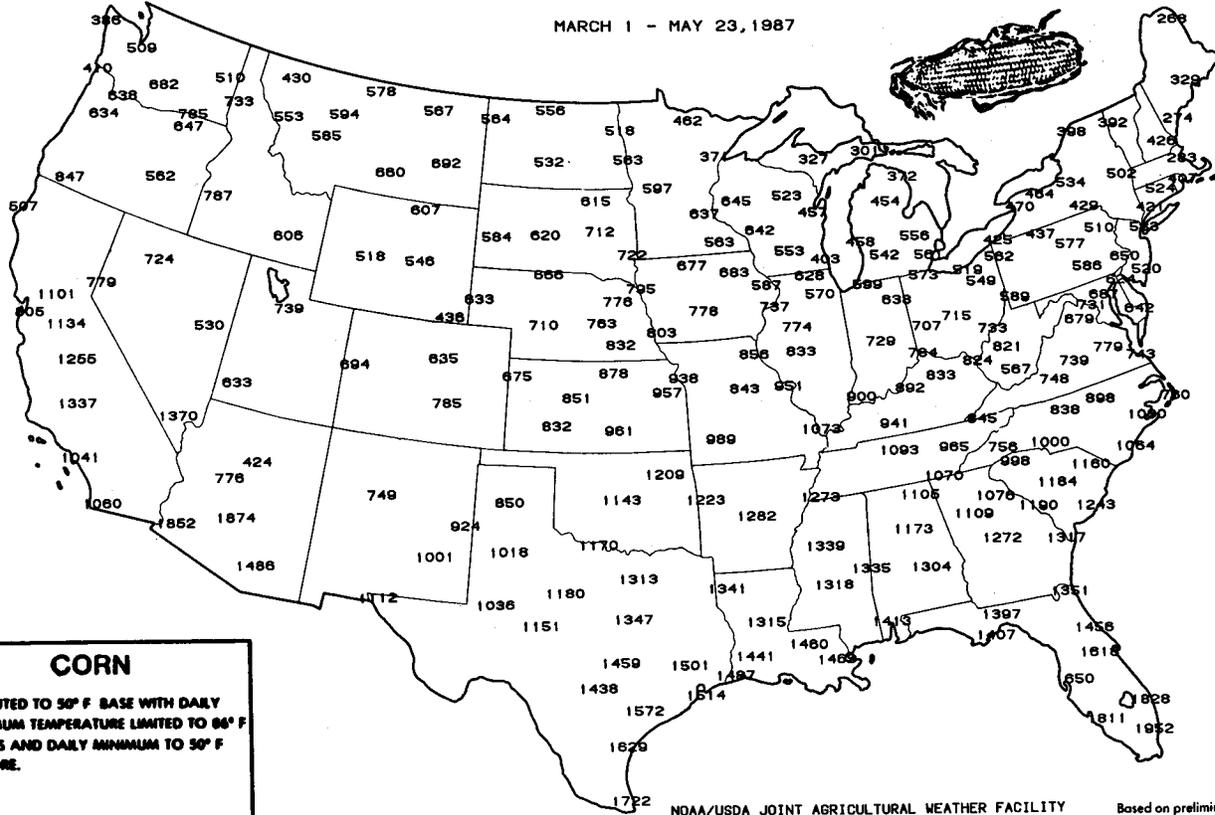


Point values may differ on these computerized maps from the reported values in the tables.



TOTAL GROWING DEGREE DAYS (CORN)

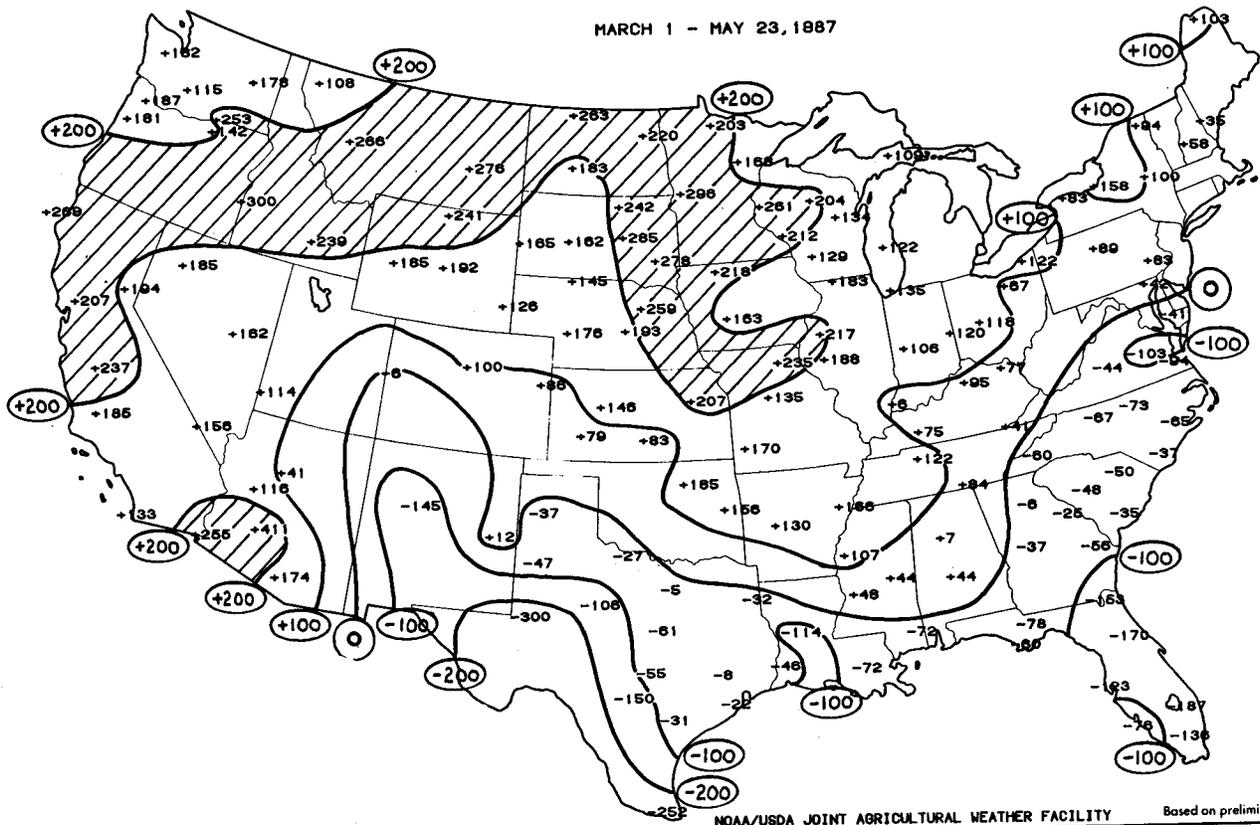
MARCH 1 - MAY 23, 1987



NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY Based on preliminary reports

GROWING DEGREE DEPARTURE FROM NORMAL

MARCH 1 - MAY 23, 1987



NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY Based on preliminary reports

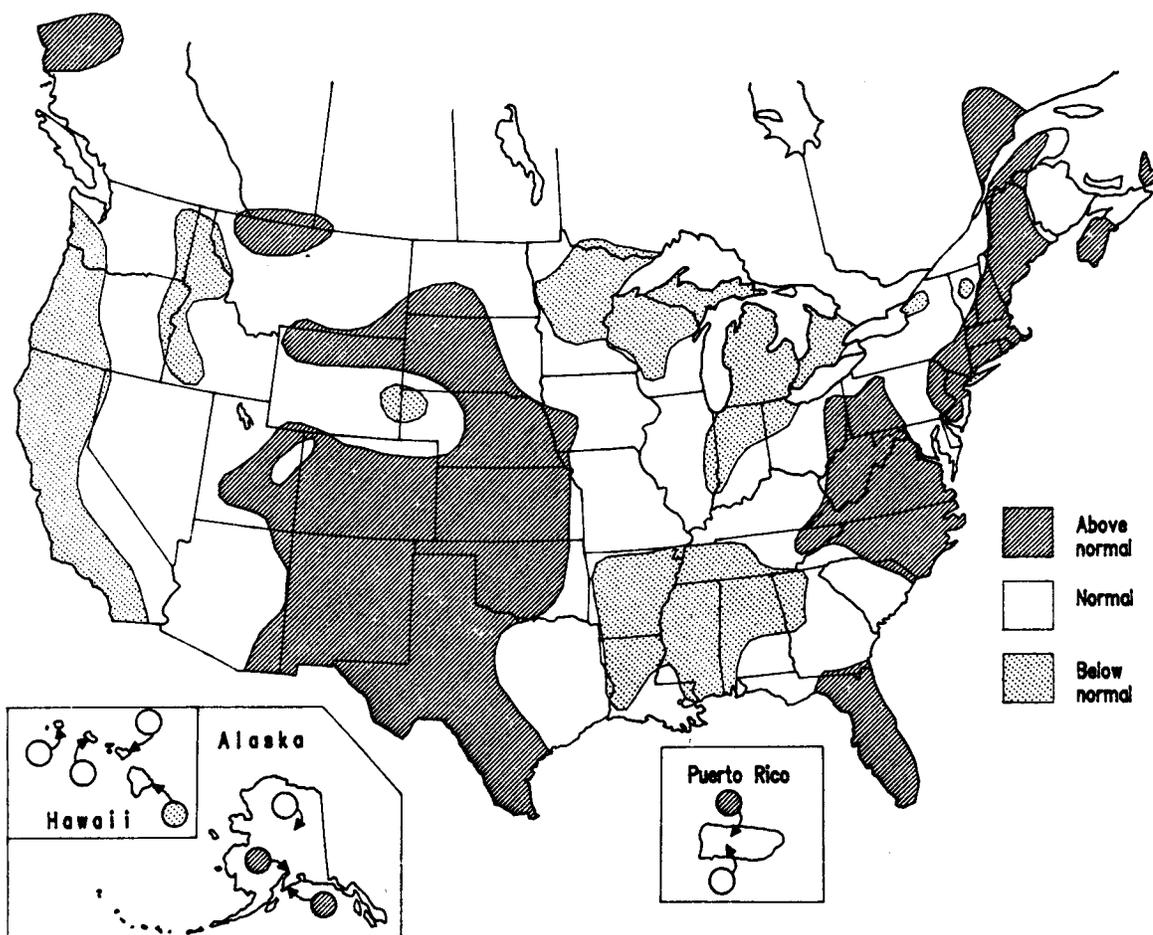
National Water Conditions

UNITED STATES
Department of the Interior
Geological Survey

CANADA
Department of the Environment
Water Resources Branch

APRIL 1987

STREAMFLOW DURING APRIL



Heavy rain combined with melting snow to cause record flooding in Maine, which was declared a Federal disaster area on April 8. Record floods also occurred in Florida, and some flooding occurred in southern Virginia.

The level of North Dakota's Devil's Lake will probably reach a 1987 seasonal maximum higher than any recorded in this century, according to a National Weather Service prediction.

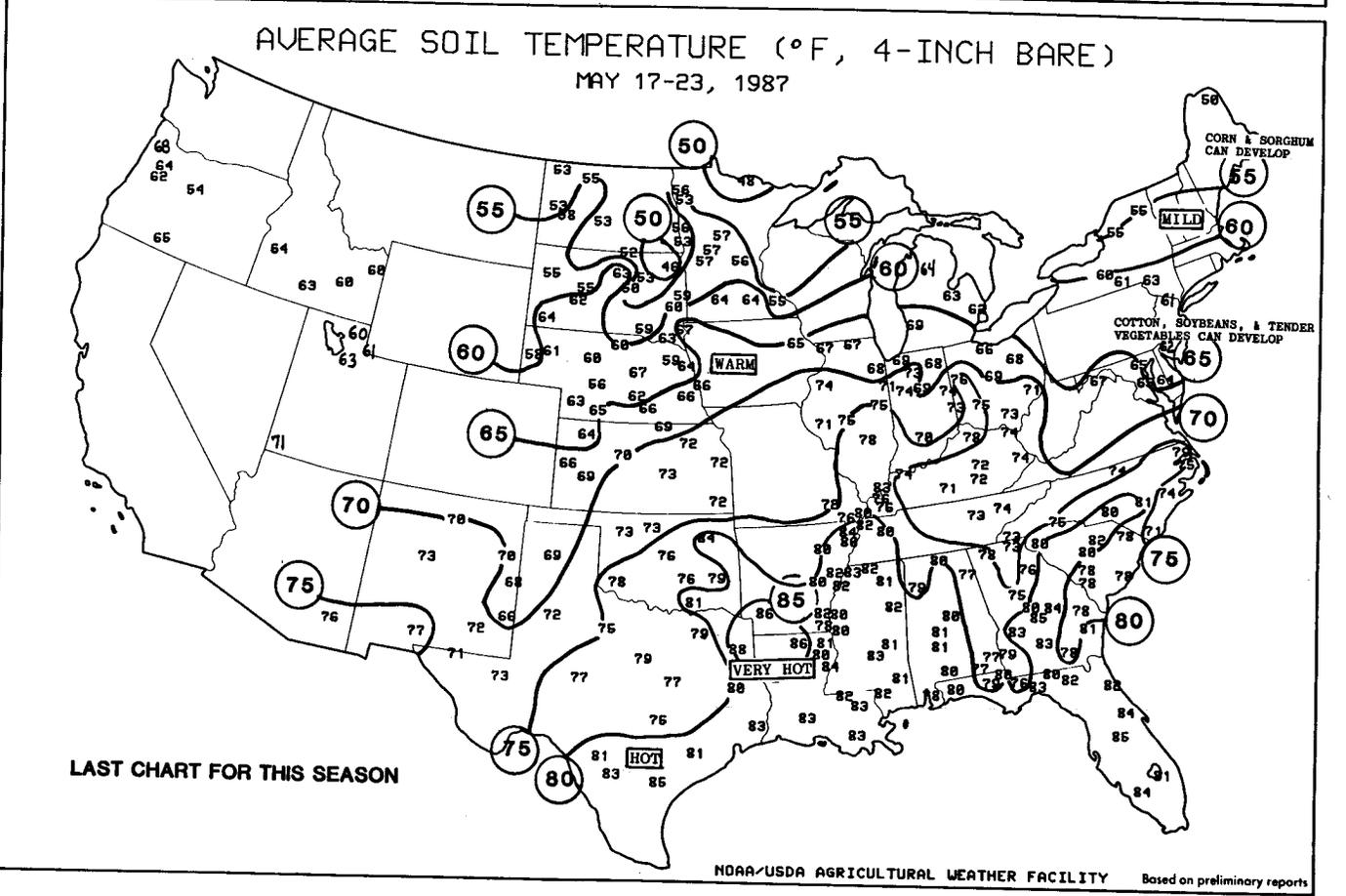
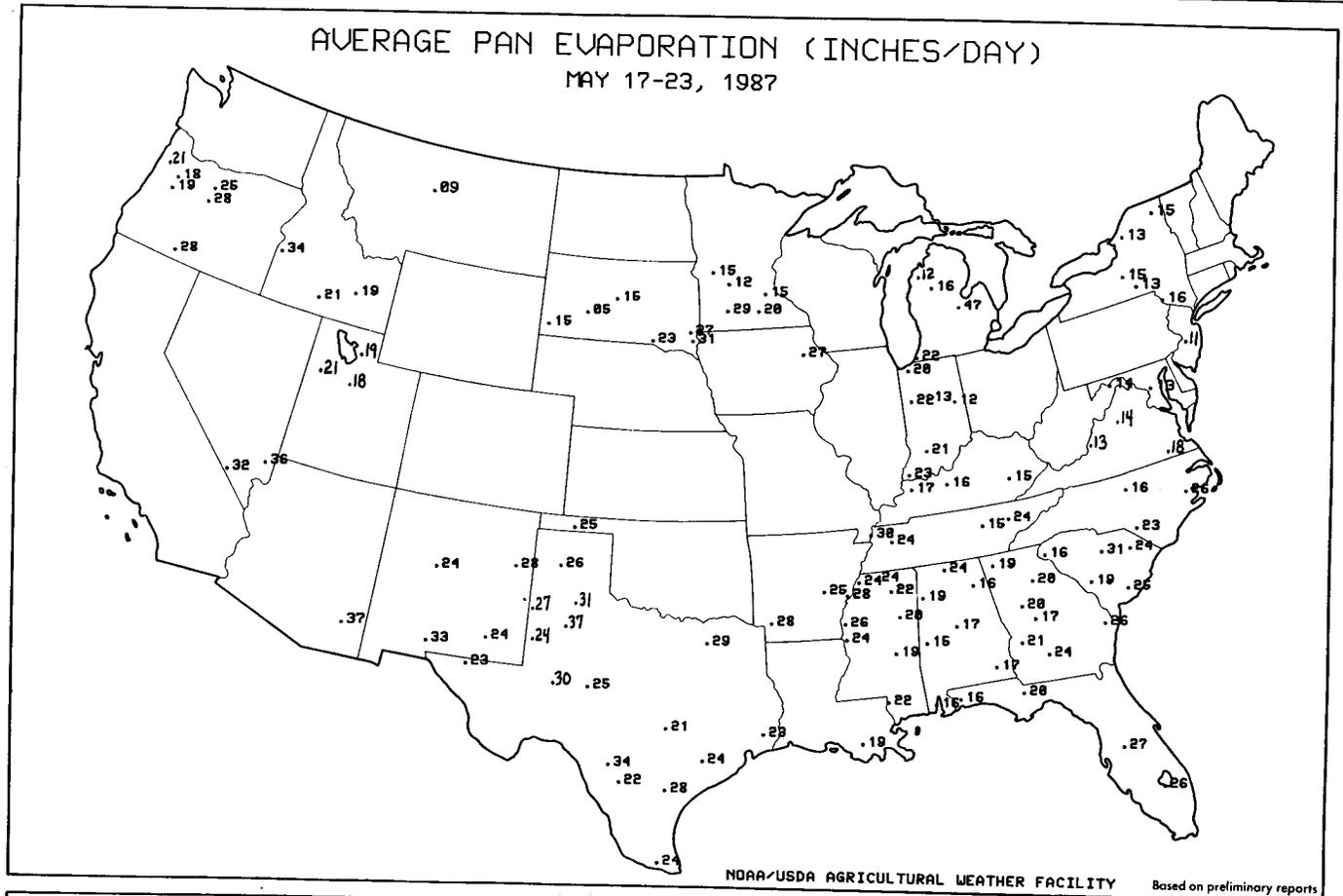
The Governor of Idaho declared a State of emergency in Ada, Canyon, Elmore, Washington, Blaine, and Adams Counties in anticipation of a water shortage for irrigation this summer.

An April 16 landslide on the west bank of the Snake River Canyon near Hagerman, Idaho caused damage to a pumping plant and the Hagerman fossil beds, which are the most complete assemblage of Pliocene fauna in the world.

Mean April elevations for the Great Lakes were lower than those for last April but remained above median.

Contents of 89 percent of reporting reservoirs were near or above average for the end of April, compared with 87 percent for the end of March.

The combined flow of the 3 largest rivers in the lower 48 States (Mississippi, St. Lawrence, and Columbia) averaged 1,396,900 cubic feet per second during April, 0.2 percent below median and 3.1 percent below last month's flow.



LAST CHART FOR THIS SEASON

National Weather Data for Selected Cities

Weather Data for the Week Ending May 23, 1987

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 MAR. 1	PCT. NORMAL SINCE MAR. 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	
AL BIRMINGHAM	85	66	88	63	76	5	2.7	1.7	1.1	9.2	62	21.1	85	98	61	0	0	5	2	
MOBILE	85	69	90	68	77	2	2.9	1.7	1.0	17.0	107	31.4	124	99	65	1	0	4	3	
MONTGOMERY	87	68	89	66	78	4	1.6	.8	.9	10.4	78	27.3	125	100	59	0	0	3	0	
AK ANCHORAGE	53	43	57	40	48	0	.2	.1	.1	.7	9	.3	31	95	84	0	0	7	0	
BARROW	26	18	30	15	22	0	0	0	0	0	1	.8	42	59	21	0	0	0	0	
FAIRBANKS	67	42	70	36	54	4	1	-1	.1	.1	8	.8	31	89	50	0	0	0	1	
JUNEAU	56	40	60	36	48	4	.5	-1.3	.5	6.6	75	13.8	85	95	63	0	1	6	2	
KODIAK	50	38	56	32	44	0	1.4	.2	.6	13.5	118	28.4	127	88	52	0	1	4	0	
NOME	50	36	56	32	43	5	.2	.1	.1	.9	57	2.3	84	88	41	6	0	0	0	
AZ PHOENIX	94	71	100	66	83	4	4	0	0	0	1	4.6	77	62	20	0	0	1	0	
PRESCOTT	74	45	80	40	60	1	1	-1	.1	.1	39	4.6	77	62	20	2	2	0	0	
TUCSON	88	59	94	54	74	-1	.3	.3	.3	2.4	214	4.6	181	70	16	0	0	0	3	
YUMA	91	66	98	61	79	-1	0	0	0	.1	41	.5	58	97	54	3	3	1	1	
AR FORT SMITH	88	66	92	64	77	7	1.6	.5	1.4	8.8	76	14.8	93	87	52	1	1	2	1	
LITTLE ROCK	88	69	90	65	78	7	1.7	.5	1.6	6.4	45	14.6	67	87	52	0	0	0	0	
CA BAKERSFIELD	79	55	85	53	67	-4	0	0	0	1.2	68	3.7	98	70	31	0	0	0	0	
EUREKA	58	48	60	44	53	1	0	0	0	7.3	79	17.2	80	83	35	0	0	1	0	
FRESNO	78	53	84	50	66	-3	0	0	0	3.3	111	6.6	96	83	35	0	0	0	0	
LOS ANGELES	68	59	70	55	63	0	0	0	0	.9	34	2.9	34	83	61	0	0	0	0	
REDDING	83	56	84	53	70	0	0	0	0	7.2	81	19.1	81	68	20	0	0	0	0	
SACRAMENTO	76	51	82	48	63	-2	0	0	0	3.4	93	8.8	84	88	37	0	0	0	0	
SAN DIEGO	69	60	71	55	64	1	0	0	0	1.8	72	5.0	83	71	57	0	0	1	0	
SAN FRANCISCO	66	53	68	50	59	1	0	0	0	2.2	50	8.5	69	81	53	0	0	0	0	
CO DENVER	69	48	79	43	59	0	2.6	2.0	1.3	6.4	132	8.3	138	93	47	0	0	6	1	
GRAND JUNCTION	71	51	78	47	61	-2	.7	.5	.3	3.7	189	5.2	167	85	35	0	0	5	0	
PUEBLO	74	51	87	47	62	0	.5	.2	.3	2.7	96	4.7	143	94	47	0	0	2	0	
CT BRIDGEPORT	68	53	78	50	60	1	0	0	0	10.3	100	15.5	94	83	53	0	0	1	0	
HARTFORD	77	51	88	44	64	3	.8	.1	.7	11.5	108	18.1	105	87	39	0	0	3	1	
DC WASHINGTON	78	57	91	52	68	0	.7	-.1	.4	6.3	71	13.4	94	98	64	0	0	2	1	
FL APALACHICOLA	84	70	88	68	77	2	1.7	1.0	1.4	12.8	137	23.0	139	95	66	0	0	1	0	
DAYTONA BEACH	83	67	85	64	75	-1	.2	-.7	.2	10.3	137	19.1	147	97	59	1	0	0	0	
JACKSONVILLE	87	65	91	62	76	0	0	-1.0	0	7.1	76	17.7	111	97	52	0	0	1	0	
KEY WEST	85	78	86	76	82	0	0	-.8	0	11.5	232	13.0	150	80	64	0	0	1	1	
MIAMI	85	73	86	70	79	0	.9	-.7	.9	8.0	84	11.5	84	85	55	1	0	3	0	
ORLANDO	88	68	91	64	78	0	.3	-.6	.1	13.2	164	16.2	122	97	48	1	0	1	0	
TALLAHASSEE	87	66	92	64	76	2	.3	-1.0	.3	13.1	98	25.7	112	99	52	1	0	0	0	
TAMPA	88	71	90	69	80	2	.2	-.7	.1	15.3	203	20.1	158	93	50	1	2	0	0	
WEST PALM BEACH	87	66	92	64	76	2	.3	-1.0	.3	13.1	98	25.7	112	99	52	1	0	0	0	
GA ATLANTA	83	71	84	69	77	-1	0	-1.5	0	15.7	156	18.0	117	85	59	0	0	2	0	
AUGUSTA	83	67	85	64	75	5	.4	-.5	.4	9.4	70	21.1	93	93	54	0	0	1	0	
MACON	87	68	89	63	77	4	.2	-.7	.2	6.5	60	22.6	120	97	49	1	0	0	0	
SAVANNAH	86	67	89	64	76	2	.2	-.3	.3	7.7	67	21.7	107	99	54	0	0	2	0	
HI HILO	82	65	84	61	74	0	1.4	.3	1.4	9.7	94	22.7	137	96	54	0	0	3	1	
HONOLULU	85	66	88	64	76	-2	.1	-.1	.3	1.1	19	2.4	19	90	59	0	0	1	0	
KAHULUI	81	65	84	62	73	-2	.3	-.1	0	1.8	185	12.0	108	89	61	0	0	0	0	
LIHUE	78	65	79	62	72	-4	0	-.7	0	6.7	67	10.6	53	91	67	0	0	0	0	
ID BOISE	71	44	79	36	57	-1	0	-.3	0	2.4	79	4.4	77	63	18	0	0	0	0	
LEWISTON	69	44	80	37	57	-3	0	-.3	0	2.1	65	3.1	56	68	25	0	0	4	0	
POCATELLO	62	44	69	38	53	-2	1.0	.8	.4	3.1	105	4.8	99	93	43	0	0	6	0	
IL CHICAGO	78	53	89	47	65	5	.8	.1	.4	5.6	63	8.3	71	99	62	0	0	2	1	
MOLINE	82	59	91	48	71	8	2.2	1.2	2.2	6.6	67	8.4	66	93	49	3	0	2	1	
PEORIA	82	60	93	47	71	8	1.0	.1	.7	4.9	51	7.2	57	94	49	2	0	5	2	
QUINCY	84	61	90	49	73	8	1.6	.6	.6	5.7	55	7.9	60	99	58	1	0	0	0	
ROCKFORD	78	57	90	47	67	7	3.0	2.1	1.5	7.3	77	9.1	75	95	61	1	0	5	0	
SPRINGFIELD	85	62	94	49	73	9	.2	-.6	.1	5.2	54	7.4	58	96	49	3	0	4	0	
IN EVANSVILLE	89	66	94	59	78	11	.2	-.8	.1	5.4	45	9.6	54	95	47	4	0	2	0	
FORT WAYNE	78	58	87	51	68	7	1.7	.9	1.0	6.5	72	9.1	70	94	62	0	0	3	1	
INDIANAPOLIS	83	61	89	51	72	8	.6	-.2	.5	6.0	60	8.8	59	96	53	0	0	5	1	
SOUTH BEND	77	57	88	45	67	7	1.3	.7	.7	6.8	74	10.4	77	94	64	0	0	3	0	
IA DES MOINES	78	56	87	45	67	6	.6	-.4	.3	7.8	95	9.6	93	89	55	0	0	4	0	
SIOUX CITY	75	51	93	41	63	0	1.0	.2	.4	8.8	137	9.4	118	93	55	1	0	3	0	
WATERLOO	78	55	91	46	67	6	.9	-.1	.5	5.3	60	6.6	63	86	47	2	0	3	0	
KS CONCORDIA	76	57	87	49	67	2	1.5	.6	.6	15.3	219	16.8	199	92	57	0	0	5	0	
DODGE CITY	75	56	86	47	65	0	.3	-.4	.1	6.3	112	8.3	126	95	57	0	0	4	0	
GOODLAND	70	51	85	44	61	0	1.1	.4	.6	6.0	140	7.3	147	94	58	2	0	0	0	
TOPEKA	82	60	91	50	71	6	0	-.9	0	10.2	126	14.0	140	86	46	2	0	4	1	
WICHITA	80	61	91	52	70	3	1.6	.7	.8	10.0	137	14.7	168	94	55	2	0	2	1	
KY BOWLING GREEN	85	65	88	61	75	7	2.0	1.1	2.0	7.9	62	14.7	69	98	59	0	0	0	0	
LEXINGTON	85	66	88	59	76	10	.6	-.4	.3	6.9	58	11.8	63	97	61	0	0	3	0	
LOUISVILLE	86	66	89	57	76	10	1	-.9	0	6.2	52	11.5	62	91	52	0	0	0	0	
LA ALEXANDRIA	87	68	89	67	78	2	.1	-.4	0	10.6	70	25.1	99	91	58	0	0	4	1	
BATON ROUGE	90	69	93	68	80	4	1.3	.3	.9	11.0	79	26.0	111	95	52	3	0	0	0	
LAKE CHARLES	88	70	90	68	79	3	0	-.3	0	7.6	68	20.1	105	100	59	1	0	1	0	
NEW ORLEANS	88	69	90	67	78	3	.2	-.9	.1	8.9	69	25.1	109	100	60	1	0	0	0	

Based on 1951-80 normals.

Weather Data for the Week Ending May 23, 1987

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 MAR. 1	PCT. NORMAL SINCE MAR. 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
SHREVEPORT	89	68	92	66	78	4	2.1	1.0	1.2	6.2	51	16.2	83	99	54	3	0	3	2
ME CARIBOU	65	38	76	29	52	0	.2	-.5	.2	4.3	60	6.9	59	75	33	0	2	1	0
PORTLAND	67	43	83	34	55	1	.2	-.6	.2	12.7	123	17.9	102	85	45	0	0	1	0
MD BALTIMORE	77	55	92	49	66	1	2.3	1.6	1.2	6.9	72	15.0	97	99	60	1	0	5	2
SALISBURY	78	56	91	47	67	2	.7	-.1	.4	9.0	92	18.3	111	100	59	1	0	2	0
MA BOSTON	67	48	79	43	58	-2	.1	-.7	.1	15.1	144	23.1	128	90	58	0	0	1	0
CHATHAM	61	47	67	45	54	0	.2	-.7	.1	15.5	144	25.8	134	90	73	0	0	3	0
MI ALPENA	66	45	81	42	55	2	.1	-.5	.1	2.5	39	4.3	46	98	61	0	0	2	0
DETROIT	74	55	86	50	65	5	.5	-.1	.3	5.9	76	8.8	78	96	65	0	0	1	0
FLINT	75	54	87	50	64	6	.5	-.1	.3	5.1	71	6.7	66	97	64	0	0	3	0
GRAND RAPIDS	74	54	90	45	64	5	.6	0	.4	4.6	55	5.6	48	91	58	1	0	4	0
HOUGHTON LAKE	68	49	85	42	59	3	.6	0	.6	2.6	40	4.2	46	90	58	0	0	1	1
LANSING	74	56	88	50	65	7	.5	0	.3	3.8	55	5.1	52	91	61	0	0	2	0
MARQUETTE	53	37	83	29	45	-7	2.3	1.6	1.0	7.0	104	10.0	100	100	78	0	2	6	2
MUSKEGON	71	53	85	44	62	5	2.3	1.8	.9	6.7	89	8.9	77	94	65	0	0	5	2
SAULT ST. MARIE	56	43	67	35	49	-2	1.1	.4	.4	4.1	64	6.7	65	95	73	0	0	7	0
MN ALEXANDRIA	64	44	90	37	54	-3	2.4	1.7	1.6	4.1	76	5.4	78	96	68	1	0	4	2
DULUTH	49	37	59	31	43	-8	3.1	2.4	1.4	4.3	70	5.2	64	99	79	0	1	6	2
INT'L FALLS	56	40	66	30	48	-5	1.5	.9	1.2	2.8	64	3.5	59	96	55	0	1	4	1
MINNEAPOLIS	69	48	93	39	59	-1	.8	.1	.5	2.5	42	3.3	43	91	57	1	0	4	1
ROCHESTER	71	48	90	39	60	1	.2	-.6	.1	3.4	51	4.3	52	95	62	1	0	2	0
MS GREENWOOD	88	70	93	68	79	6	.5	-.5	.3	11.9	77	21.5	85	94	57	4	0	2	0
JACKSON	89	68	92	66	79	5	.3	-.8	.2	11.6	77	26.5	109	97	53	4	0	2	0
MERIDIAN	87	68	92	65	78	5	.9	0	.5	10.6	69	30.7	124	97	57	1	0	3	0
MO CAPE GIRARDEAU	89	68	95	62	78	-1	.7	-.4	.5	5.2	39	9.3	49	88	46	4	0	2	1
COLUMBIA	83	60	89	49	71	5	1.2	.2	.5	6.1	57	9.0	63	98	61	0	0	4	2
KANSAS CITY	83	60	89	48	71	4	.3	-.7	.2	7.8	85	10.8	93	88	48	0	0	2	0
SAINT LOUIS	86	66	92	54	76	9	.3	-.5	.2	5.9	62	9.3	70	88	48	3	0	3	0
SPRINGFIELD	83	63	91	56	73	7	1.0	0	.5	10.2	96	17.5	122	97	58	2	0	4	0
MT BILLINGS	58	41	72	33	50	-6	1.0	.5	.4	3.4	73	3.9	62	95	60	0	0	5	0
GLASGOW	60	41	74	35	50	-6	.4	0	.3	2.7	127	2.8	104	87	44	0	0	3	0
GREAT FALLS	58	38	71	31	48	-7	.5	-.1	.4	3.6	87	3.9	67	88	48	0	2	5	0
HAVRE	61	41	73	34	50	-6	T	-.4	T	1.9	65	2.1	54	76	34	0	0	0	0
HELENA	56	36	67	30	46	-7	.9	.5	.3	3.2	109	3.2	80	100	58	0	2	6	0
KALISPELL	62	37	70	26	49	-3	T	-.4	T	4.5	145	5.8	101	78	33	0	2	0	0
MILES CITY	62	43	73	34	53	-6	2.0	1.4	.9	3.3	91	3.4	72	90	52	0	0	3	2
MISSOULA	63	40	71	29	51	-2	T	-.4	T	2.1	71	2.7	53	79	34	0	1	2	0
NE GRAND ISLAND	74	55	88	46	65	2	1.1	.3	.8	12.0	175	12.8	157	94	55	0	0	4	1
LINCOLN	78	56	91	45	67	3	.2	-.7	.2	9.8	130	10.4	112	91	51	1	0	2	0
NORFOLK	74	53	91	43	63	1	2.7	1.8	1.0	11.1	175	12.1	160	96	54	1	0	5	3
NORTH PLATTE	71	50	87	44	60	1	1.5	.7	1.0	5.3	100	7.0	113	94	58	0	0	5	1
OMAHA	76	54	89	43	65	0	1.1	.1	.8	8.3	104	9.0	94	91	60	0	0	3	1
SCOTTSBLUFF	69	46	81	39	57	-1	2.2	1.6	1.1	7.2	167	9.4	184	95	57	0	0	6	1
VALENTINE	70	45	85	40	58	-1	.2	-.5	.1	4.8	100	6.2	114	86	50	0	0	2	0
NV ELY	64	36	67	30	50	-1	.8	.6	.7	2.8	107	4.2	104	97	38	0	2	3	1
LAS VEGAS	86	60	91	55	73	-2	0	0	0	1.6	205	3.2	188	50	14	1	0	0	0
RENO	69	43	74	38	56	0	1.9	1.8	1.8	3.6	212	4.9	127	92	31	0	0	2	1
WINNEMUCCA	67	40	73	33	54	-2	.4	.2	.2	4.0	199	5.0	142	86	32	0	0	3	0
NH CONCORD	71	45	85	33	58	1	.2	-.5	.2	9.1	112	12.1	90	88	40	0	0	1	0
NJ ATLANTIC CITY	74	53	93	47	63	2	1.2	.5	.9	12.0	126	19.8	122	98	60	1	0	3	1
NM ALBUQUERQUE	75	51	81	47	63	-3	.1	0	0	1.6	129	2.8	144	83	26	0	0	5	0
CLOVIS	80	57	88	55	69	2	2.2	1.7	1.1	3.0	108	5.0	134	79	32	0	0	4	2
ROSWELL	82	55	91	51	68	-2	.7	.5	.4	1.5	115	3.7	180	83	28	1	0	3	0
NY ALBANY	75	53	84	45	64	5	1.0	.2	.8	7.5	90	12.0	93	91	50	0	0	3	1
BINGHAMTON	70	50	83	42	60	3	.6	-.1	.3	7.1	85	10.9	83	94	54	0	0	4	0
BUFFALO	71	55	83	49	63	5	.3	-.4	.3	8.4	103	12.2	90	85	56	0	0	1	0
NEW YORK	72	54	87	52	63	0	.3	-.5	.2	10.4	100	16.7	101	93	59	0	0	3	0
ROCHESTER	72	52	85	50	62	4	.1	-.5	.1	6.3	90	8.8	75	93	57	0	0	1	0
SYRACUSE	73	54	83	48	63	5	.6	-.1	.6	6.0	69	9.7	70	88	53	0	0	3	1
NC ASHEVILLE	80	60	83	56	70	6	.2	-.7	.2	7.5	67	17.2	98	98	58	0	0	2	0
CHARLOTTE	84	64	89	61	74	4	T	-.8	T	6.9	64	16.9	93	93	50	0	0	0	0
GREENSBORO	82	60	89	56	71	4	.1	-.7	.1	11.4	121	20.0	122	95	52	0	0	2	0
HATTERAS	78	62	83	50	70	2	.1	-.8	.1	15.3	152	30.2	159	99	62	0	0	2	0
NEW BERN	85	63	92	52	74	3	1.9	.9	1.7	9.7	99	20.8	117	93	53	2	0	3	1
RALEIGH	81	60	88	53	71	3	.8	0	.8	8.8	95	20.8	129	98	58	0	0	2	1
WILMINGTON	83	64	89	56	73	1	.5	-.5	.5	6.6	66	17.5	103	97	60	0	0	1	1
ND BISMARCK	58	42	68	31	50	-7	2.2	1.7	1.5	5.0	135	6.8	146	93	65	0	1	3	1
FARGO	58	45	65	36	51	-6	2.0	1.5	1.1	3.3	76	4.4	54	95	78	0	0	3	1
GRAND FORKS	59	42	63	34	51	-5	2.5	2.1	1.6	3.3	95	4.8	102	95	63	0	0	3	2
WILLISTON	60	42	75	35	51	-5	.6	.2	.5	3.3	107	3.8	95	81	43	0	0	4	1
OH AKRON-CANTON	77	57	84	50	67	7	1.1	.3	1.0	8.9	96	11.1	80	94	64	0	0	3	1
CINCINNATI	87	63	90	49	75	11	.1	-.8	.1	7.7	75	10.2	63	92	46	2	0	2	0
CLEVELAND	78	57	87	49	68	8	.4	-.3	.4	8.5	98	11.0	83	92	58	0	0	4	0
COLUMBUS	84	61	87	49	72	9	.8	0	.5	6.2	66	7.9	55	99	57	0	0	2	0

Based on 1951-80 normals.

Weather Data for the Week Ending May 23, 1987

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 MAR. 1	PCT. NORMAL SINCE MAR. 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
DAYTON	83	62	88	52	73	9	1.6	.8	.7	7.1	78	9.2	67	95	56	0	0	5	1
TOLEDO	76	55	88	49	66	6	1.0	.3	.9	5.7	74	8.1	70	97	62	0	0	2	1
YOUNGSTOWN	76	54	84	49	65	6	1.0	.3	.9	7.8	85	10.2	73	94	60	0	0	5	2
OK OKLAHOMA CITY	85	65	93	63	75	6	3.3	2.0	1.5	6.1	68	12.6	113	96	48	2	0	5	1
TULSA	87	67	94	63	77	7	1.4	.8	.8	5.7	51	12.7	90	89	51	3	0	1	0
OR ASTORIA	60	45	64	40	53	0	T	-.2	T	13.6	244	29.1	226	91	56	0	0	0	0
BURNS	65	36	71	23	51	-3	0	-.2	0	2.5	106	4.7	89	**	**	0	2	0	0
MEDFORD	73	41	78	34	57	-2	-.2	-.1	-.2	2.2	57	7.3	78	82	25	0	0	1	1
PENDLETON	67	41	77	36	54	-5	-.2	-.2	T	2.4	85	4.5	80	73	30	0	0	1	1
PORTLAND	68	45	75	43	57	-1	-.5	-.5	T	7.7	103	17.3	99	84	36	0	0	1	0
SALEM	67	36	74	33	52	-4	0	-.4	0	6.8	84	18.0	91	96	39	0	0	0	0
PA ALLENTOWN	73	52	89	46	62	2	1.0	.2	.4	8.8	85	13.8	82	93	56	0	0	4	0
ERIE	73	55	84	51	64	7	1.3	-.4	.3	7.7	89	10.9	83	88	60	0	0	5	1
HARRISBURG	74	52	89	46	63	0	1.1	-.4	.6	8.1	86	13.3	88	97	70	0	0	4	1
PHILADELPHIA	75	54	91	48	64	0	1.1	-.4	.6	7.8	82	13.6	88	95	60	1	0	3	0
PITTSBURGH	78	55	85	48	67	6	.6	-.2	.3	9.8	104	12.8	87	87	53	0	0	5	0
SCRANTON	73	53	85	45	63	3	.9	.2	.3	7.6	96	10.9	89	94	55	0	0	5	0
RI PROVIDENCE	73	50	87	45	61	2	.2	-.6	.1	14.0	129	19.0	102	93	46	0	0	3	0
SC CHARLESTON	85	67	88	65	76	3	1.0	0	.7	8.9	89	20.7	125	100	56	0	0	2	1
COLUMBIA	89	67	91	65	78	5	T	-.9	T	6.9	60	20.6	104	94	42	4	0	0	0
FLORENCE	86	65	91	63	75	3	T	-.8	T	6.2	65	16.7	103	93	49	3	0	1	0
GREENVILLE	83	64	89	62	74	4	.1	-.8	.1	8.5	64	20.4	94	96	58	0	0	3	1
SD ABERDEEN	64	45	76	34	55	-3	1.3	.7	.9	3.5	73	4.7	80	98	71	0	0	4	0
HURON	70	48	81	36	59	0	.3	-.4	.1	6.0	117	7.3	116	97	64	0	0	3	1
RAPID CITY	62	43	73	39	52	-5	1.1	-.5	1.0	3.0	62	4.7	81	92	72	1	1	5	0
SIoux FALLS	72	51	92	39	61	2	.8	0	.3	5.2	83	5.6	73	92	62	0	0	5	1
TN CHATTANOOGA	85	65	90	62	75	7	2.3	1.4	1.4	10.2	73	23.8	100	100	61	1	0	5	1
KNOXVILLE	85	65	87	60	75	6	2.1	1.3	1.1	7.7	64	17.1	82	100	59	0	0	4	0
MEMPHIS	91	72	96	69	81	9	T	-1.1	T	7.7	51	15.2	64	91	47	5	0	0	2
NASHVILLE	87	68	89	65	77	8	2.7	1.6	1.8	5.5	41	11.9	54	100	61	0	0	3	1
TX ABILENE	86	64	91	60	75	1	1.7	1.0	1.3	4.9	84	9.0	115	91	42	2	0	2	1
AMARILLO	79	56	88	53	68	1	.9	.2	.9	3.3	86	5.4	110	91	39	0	0	2	1
AUSTIN	88	68	89	63	78	2	.6	-.3	.6	3.7	47	7.5	63	98	55	0	0	1	0
BEAUMONT	87	70	91	68	79	3	.2	-.9	.2	5.0	46	20.8	108	98	62	1	0	0	0
BROWNSVILLE	88	74	89	73	81	2	0	-.5	0	3.3	94	8.1	128	96	61	0	0	0	0
CORPUS CHRISTI	88	72	89	70	80	2	0	-.8	0	3.3	65	11.5	142	98	61	0	0	4	1
DEL RIO	86	67	90	61	76	-2	-.9	.5	.6	5.7	143	9.3	173	89	55	1	0	0	0
EL PASO	85	58	90	51	71	-2	T	-.1	T	.8	133	1.4	95	67	22	3	0	3	0
FORT WORTH	88	68	92	64	78	4	-.1	-.9	.1	4.0	41	8.9	67	96	52	0	0	2	0
GALVESTON	84	75	86	70	79	3	T	-.8	T	3.2	44	11.9	95	87	67	0	0	1	0
HOUSTON	90	70	92	66	80	4	T	-1.1	T	5.6	57	12.3	74	98	55	4	0	4	1
LUBBOCK	83	60	94	57	71	1	1.5	.9	1.0	2.4	63	4.4	94	95	43	1	0	4	1
MIDLAND	83	59	90	54	71	-3	2.3	1.9	2.2	4.3	151	6.3	168	96	41	2	0	4	1
SAN ANGELO	85	62	91	60	73	-1	1.8	1.3	.9	7.2	166	12.3	211	95	46	2	0	3	2
SAN ANTONIO	88	68	90	63	78	1	3.9	3.1	3.2	9.2	136	15.1	150	96	55	1	0	0	0
VICTORIA	88	71	90	68	79	2	T	-1.1	T	3.4	47	10.0	89	98	59	2	0	3	0
WACO	89	68	92	63	79	3	1.3	.2	.7	7.0	75	10.9	84	99	57	4	0	3	2
WICHITA FALLS	87	65	97	61	76	3	3.0	2.0	1.9	6.2	77	12.1	122	95	47	0	0	5	0
UT BLANDING	71	48	75	42	59	1	.3	.2	.1	2.4	124	4.9	116	90	40	0	0	3	0
CEDAR CITY	70	42	75	36	56	-1	.2	0	.1	3.0	110	4.7	113	93	26	0	0	6	1
SALT LAKE CITY	70	50	75	43	60	0	1.5	1.2	.7	4.4	88	7.3	95	86	40	0	0	3	0
VT BURLINGTON	65	44	77	31	55	-2	.3	-.4	.2	3.6	51	6.0	56	89	43	0	1	3	0
VA NORFOLK	81	61	93	51	71	3	.5	-.3	.3	7.5	80	20.6	126	97	59	1	0	3	0
RICHMOND	80	58	92	51	69	2	.6	-.2	.3	10.5	116	18.6	121	99	60	1	0	3	0
ROANOKE	79	58	89	52	69	3	.8	0	.8	17.6	188	26.6	174	100	62	0	0	2	1
WA COLVILLE	68	38	75	33	53	-2	T	-.4	T	5.0	145	7.2	102	77	38	0	0	1	0
QUILLAYUTE	61	39	66	33	50	-1	T	-1.1	T	24.4	105	46.8	94	96	53	0	0	0	0
SEATTLE-TACOMA	65	44	71	40	55	-1	T	-.3	T	9.1	128	17.2	99	89	42	0	0	1	0
SPOKANE	65	37	73	32	51	-4	T	-.3	T	3.6	105	6.0	80	80	27	0	1	0	0
YAKIMA	69	38	78	29	54	-5	T	-.1	T	2.0	140	3.7	104	82	25	0	2	0	0
WV BECKLEY	78	58	82	52	68	8	1.1	.3	.9	11.4	114	18.3	110	95	56	0	0	2	1
CHARLESTON	86	61	87	47	74	9	.6	-.3	.4	7.2	70	13.8	82	99	54	0	0	4	1
HUNTINGTON	86	62	88	47	74	8	1.1	-.2	.5	9.6	92	15.4	94	100	60	0	0	2	0
PARKERSBURG	85	60	88	46	72	8	.3	-.5	.2	6.9	73	10.0	67	98	55	0	0	5	0
WI GREEN BAY	66	47	86	41	57	0	.9	.1	.5	5.2	76	6.0	67	97	70	0	0	5	0
LACROSSE	74	52	90	41	63	2	.9	0	.4	8.3	110	9.6	104	90	59	1	0	4	1
MADISON	72	52	86	43	62	3	1.3	.5	.9	7.5	99	8.8	90	96	68	0	0	5	1
MILWAUKEE	71	49	88	43	60	4	2.6	2.0	.7	9.2	117	11.7	108	96	71	0	0	7	3
WAUSAU	67	46	87	37	57	0	.9	0	.7	3.7	50	4.4	47	93	60	0	2	5	0
WY CASPER	63	42	75	32	53	-1	-.8	.3	.3	2.8	69	5.7	112	95	48	0	0	6	1
CHEYENNE	61	42	71	34	52	-2	1.7	1.2	.9	5.3	135	6.3	134	98	59	0	0	3	1
LANDER	62	43	74	35	53	-1	1.4	.8	.9	5.5	103	8.1	126	90	47	0	1	5	0
SHERIDAN	59	41	74	32	50	-4	.7	.1	.4	2.5	51	3.7	58	100	63	0	0	7	1
PR SAN JUAN	85	75	87	72	80	0	2.6	1.2	1.9	18.4	182	20.8	137	95	80	0	0	0	1

Based on 1951-80 normals.

National Agricultural Summary

May 18 to 24, 1987

HIGHLIGHTS: Rain hampered planting in the central and northern Great Plains and Corn Belt but provided much needed moisture for seed germination and small grain development. Scattered showers slowed planting in the Southeast and lower Delta. Insufficient moisture eased in the eastern half of the Nation, but additional moisture is needed, especially in the Delta and Southeast. Farmers were able to work 4 to 5 days in most areas, but wetness slowed fieldwork to less than 4 days in the Corn Belt and Rocky Mountain States.

Corn seeding was 97 percent (%) finished, 17 percentage points above the 5-year average. Corn was tasselling and silking in Texas and Georgia. Sorghum planting jumped 13 points from the previous week and was 12 points above the 39% average. Heading was underway in Texas. Soybeans were 63% seeded compared with 41% in 1986 and 36% normally. Cotton planting reached 70% completion, 2 points above normal. Cotton was squaring in Texas and squaring and setting bolls in Arizona. Winter wheat heading climbed 16 points ahead of the previous week to 75% completion. Peach harvest was underway in the Southeast. Livestock was mostly good.

SMALL GRAINS: Winter wheat was mostly good, except in the Delta and southern Great Plains where condition was fair to good. Rain provided much needed moisture in the central and southern Great Plains and in the Corn Belt. Wheat was 75% headed in the 20 major producing States, equaling 1986 and 14 points above the average. Heading was ahead of normal in nearly all States and by as much as 26 points or more in Illinois, Nebraska, Indiana, and Kansas. Heading was finished in Georgia and Kansas and neared completion in Arkansas, California, Illinois, Missouri, New Mexico, and Oklahoma. Harvest was underway in Louisiana, Alabama, Georgia, California, Arizona, and Texas. The cool, wet weather promoted filling of heads in northern Oklahoma. Wheat turned color in Kansas.

Spring wheat was 91% emerged compared with 57% last year and 66% normally. The crop was mostly good despite dryness earlier this year. Minnesota's spring wheat reached the jointing stage.

CORN: Corn planting inched 4 points closer to completion at 97% finished. This was 17 points above the average and 10 points above 1986. Planting was complete or nearing completion in all major producing States except Pennsylvania. Corn reached the silking stage in Georgia. Eighty-nine percent of the Illinois corn crop was up to stand, but some replanting was necessary. Corn was mostly good in Ohio and grew well in South Carolina. Early planted corn was tasselling in Texas.

SORGHUM: Sorghum was 51% seeded in the 11 major producing States, compared with 49% in 1986 and the 39% average. Planting was up 13 points from the previous week. Seeding continued lagging behind normal in Louisiana, Oklahoma, and Texas. Sorghum was heading in Texas. Planting progressed well in Kansas.

SOYBEANS: In the 19 major producing States, nearly a fifth of the acreage was planted in 1 week. Planting was 15 points ahead of normal at 63% completion. Dryness and rain continued holding seeding behind normal in the Southeast and some Delta States. Planting was up 19 points from the previous week overall and increased by 13 points or more in most States. The rain was

beneficial for germination but slowed planting in the central and northern Plains and Corn Belt.

COTTON: Cotton planting was 70% finished, 2 points ahead of the 5-year average. Planting progress slowed but was still up 8 points from the previous week. Planting was ahead of normal in all States except Arizona, Georgia, and North Carolina, which were behind 1, 3, and 4 points, respectively. In Texas, wet weather delayed planting completion in the Blacklands. Cotton was squaring in central, southern, and valley areas of Texas. Hail destroyed some cotton in Pima County, Arizona. Some leaf tattering occurred but replanting damaged fields was uncertain. Squaring was becoming more prevalent and the earliest planted cotton began setting bolls. Early cotton emergence was good in California, and thinning increased. Growers sprayed to control thrips in Arkansas. Rain helped cotton seed germination and should increase planting in Oklahoma.

OTHER CROPS: Rice planting jumped 10 points from the previous week in California. Nationally, planting was 96% complete, compared with 84% normally. Rice fertilization continued in Texas. Dryness caused uneven emergence in Arkansas.

Peanut planting remained behind normal in most major producing areas but nearly pulled even. Seeding was 80% finished in Alabama, compared with 58% in 1986 and 85% average. Planting was only 2 points behind normal in Georgia, equaling the 86% average in North Carolina and 24% average in Texas.

Burley tobacco transplanting was 40% finished in Tennessee and 34% finished in Kentucky. Transplanting was 5 points ahead of normal in Tennessee and 15 points ahead of normal in Kentucky. Flue-cured transplanting lagged 5 points behind normal in North Carolina.

FRUIT AND NUTS: Florida's citrus groves were good. Scattered rain was not sufficient to prevent irrigation. New crop growth continued, but new crop fruit shedding was almost finished. Valencia oranges held well, and harvest was active. Grapefruit harvest slowed, rendering low supplies.

California table grape harvest accelerated in the Coachella Valley. Table grape growers girdled vines in the San Joaquin Valley. Clusters were shattering from the record heat in early May. Nectarines, peaches, plums, grapefruit, and lemons were picked. Valencia and navel oranges were harvested in the San Joaquin Valley. Walnuts developed normally, and almond limb-propping continued.

Peach harvest was underway in Alabama and Georgia. South Carolina peaches were fair to good, and harvest is expected to start the last week of May.

VEGETABLES: Spring vegetable harvest neared completion in southern Florida and was peaking in central areas. Volume leaders were tomatoes, potatoes, watermelons, sweet corn, and celery. Good supplies of cabbage, squash, radishes, carrots, snap beans, and eggplant were available.

Rain delayed vegetable harvest in the Rio Grande Valley and in the San Antonio-Winter Garden area. Broccoli, carrots, celery, sweet corn, lettuce, and cauliflower were harvested in California. Cool weather slowed melon growth.

PASTURES AND LIVESTOCK: Livestock was mostly good. Pastures benefited from moisture in the eastern half of the Nation. Additional moisture is needed in Western States.

CROP PROGRESS

FOR WEEK ENDING MAY 24, 1987

WINTER WHEAT % HEADED			
	1987	1986	AVG.
ARK	99	99	NA
CALIF	98	100	98
COLO	41	63	37
GA	100	100	100
IDAHO	11	0	2
ILL	95	86	69
IND	70	80	40
KANS	99	98	70
MICH	4	4	5
MO	96	92	71
MONT	2	0	0
NEBR	65	58	36
N MEX	96	95	NA
N C	94	98	NA
OHIO	45	54	32
OKLA	97	100	95
OREG	64	11	12
S DAK	27	12	14
TEX	94	99	92
WASH	20	2	10
20 STATES	76	76	NA
EXCL. STATES WITH NA	75	75	61

THESE 20 STATES PRODUCED 91%
OF THE 1986 WINTER WHEAT CROP.

NA - NOT AVAILABLE.

GRAIN SORGHUM % PLANTED			
	1987	1986	AVG.
ARK	92	82	NA
ILL	68	43	26
KANS	35	25	10
LA	80	95	87
MISS	80	83	63
MO	64	54	48
NEBR	50	52	32
OKLA	15	30	25
S DAK	31	10	19
TENN	70	70	55
TEX	67	75	73
11 STATES	53	51	NA
EXCL. STATES WITH NA	51	49	39

THESE 11 STATES PRODUCED 96%
OF THE 1986 GRAIN SORGHUM CROP.

NA - NOT AVAILABLE.

SOYBEANS % PLANTED			
	1987	1986	AVG.
ALA	35	27	32
ARK	37	32	21
GA	33	18	34
ILL	85	69	54
IND	80	40	36
IOWA	80	35	39
KANS	40	25	10
KY	35	29	20
LA	31	59	40
MICH	50	20	30
MINN	85	32	37
MISS	27	36	31
MO	58	31	27
NEBR	55	53	32
N C	22	22	34
OHIO	78	60	52
S C	24	23	25
S DAK	63	14	34
TENN	30	30	20
19 STATES	63	41	36

THESE 19 STATES PRODUCED 96%
OF THE 1986 SOYBEANS CROP.

SPRING WHEAT % EMERGED			
	1987	1986	AVG.
IDAHO	100	81	80
MINN	99	36	67
MONT	88	70	73
N DAK	85	53	55
S DAK	100	72	89
5 STATES	91	57	66

THESE 5 STATES PRODUCED 94%
OF THE 1986 SPRING WHEAT CROP.

COTTON % PLANTED			
	1987	1986	AVG.
ALA	96	83	93
ARIZ	99	99	100
ARK	98	97	91
CALIF	100	99	99
GA	81	64	84
LA	91	96	90
MISS	95	98	94
MO	100	98	89
N MEX	87	65	65
N C	87	96	91
OKLA	30	35	25
S C	93	95	93
TENN	96	93	85
TEX	48	47	48
14 STATES	70	69	68

THESE 14 STATES PRODUCED 100%
OF THE 1986 COTTON CROP.

CORN % PLANTED			
	1987	1986	AVG.
COLO	89	92	89
GA	99	99	99
ILL	99	98	89
IND	99	90	71
IOWA	100	87	86
KANS	98	95	75
KY	92	91	72
MICH	95	85	80
MINN	99	67	75
MO	98	89	78
NEBR	98	95	79
N C	97	99	97
OHIO	98	93	80
PA	74	79	66
S DAK	96	43	63
TEX	100	100	99
WIS	92	83	71
17 STATES	97	87	80

THESE 17 STATES PRODUCED 94%
OF THE 1986 CORN CROP.

RICE % PLANTED			
	1987	1986	AVG.
ARK	98	94	83
CALIF	90	70	60
IA	94	98	94
MISS	99	99	92
TEX	100	100	99
5 STATES	96	92	84

THESE 5 STATES PRODUCED 97%
OF THE 1986 RICE CROP.

RICE % EMERGED			
	1987	1986	AVG.
ARK	88	87	63
CALIF	70	35	20
IA	90	96	89
MISS	90	97	74
TEX	98	99	93
5 STATES	87	83	66

THESE 5 STATES PRODUCED 97%
OF THE 1986 RICE CROP.

(Continued to back cover)

WEEKLY CROP CONDITION PERCENT
FOR WEEK ENDING MAY 24, 1987

WINTER WHEAT					
STATE	VP	P	F	G	EX
ARK	5	36	48	4	7
CALIF	0	5	10	80	5
COLO	1	4	16	71	8
GA	0	3	49	46	2
IDAHO	0	0	14	64	22
ILL	0	0	15	65	20
IND	0	0	31	65	4
KANS	0	2	11	46	41
MICH	5	10	30	45	10
MO	1	14	52	32	1
MONT	0	1	27	67	5
NEBR	0	0	17	74	9
N MEX	0	0	22	78	0
N C	0	0	21	78	1
OHIO	0	3	22	64	11
OKLA	0	2	78	20	0
OREG	0	0	15	55	30
S DAK	1	9	35	48	7
TEX	0	12	52	29	7
WASH	0	0	15	75	10

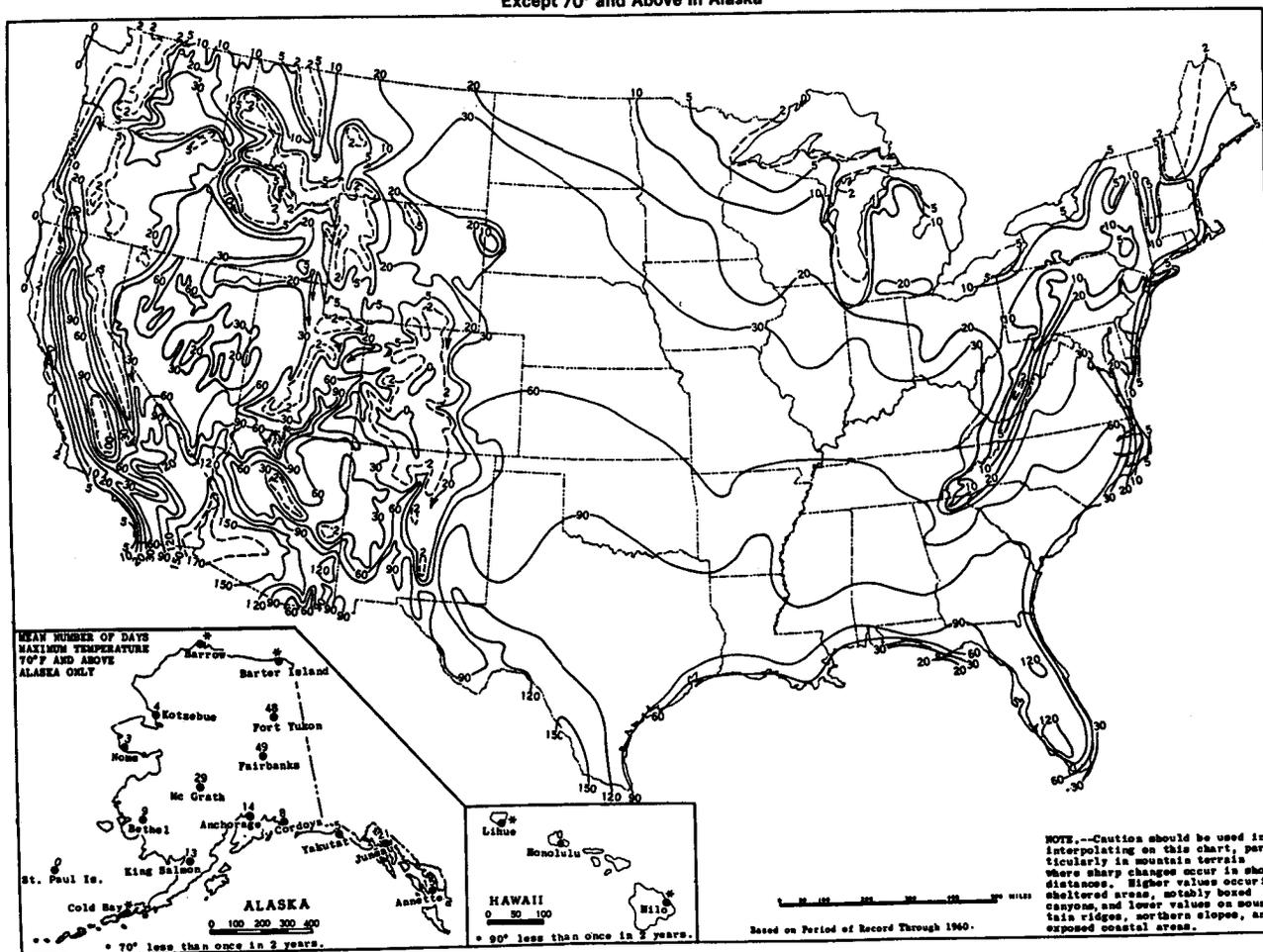
RICE					
STATE	VP	P	F	G	EX
ARK	0	15	61	24	0
CALIF	0	0	0	50	50
LA	0	0	48	52	0
MISS	0	9	33	55	3

SPRING WHEAT					
STATE	VP	P	F	G	EX
IDAHO	1	1	29	53	16
MINN	1	2	37	54	6
MONT	0	1	26	63	10
N DAK	0	2	15	83	0
S DAK	0	6	28	62	4

CORN					
STATE	VP	P	F	G	EX
GA	0	0	27	72	1
IOWA	0	5	10	65	20
KANS	0	0	3	36	61
KY	2	3	44	47	4
MICH	1	4	20	50	25
MINN	1	7	34	53	5
NEBR	0	0	10	75	15
TEX	0	2	29	52	17

VP - VERY POOR P - POOR
F - FAIR G - GOOD
EX - EXCELLENT

MEAN ANNUAL NUMBER OF DAYS MAXIMUM TEMPERATURE 90°F AND ABOVE
Except 70° and Above in Alaska



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 NASS State Statistical Offices in cooperation with the National Weather Service.

ALABAMA: Rainfall totals mostly under 0.33 in.; local amounts 1.00 to 2.00 in. common. Temperatures averaged 3 to 6° above normal.

Days suitable for fieldwork 3.8. Soil moisture 26% short, 55% adequate, 19% surplus. Scattered showers delayed planting progress; additional moisture benefited crops, pastures, hay fields. Corn 98% planted, 98% 1986, 97% avg. Cotton 96% planted, 83% 1986, 93% avg. Sorghum 46% planted, 44% 1986, 45% avg. Soybeans 35% planted, 27% 1986, 32% avg. Peanuts 80% planted, 58% 1986, 85% avg. Hay 1st cutting 43% harvested, 18% 1986, 25% avg. Wheat 99% headed, 99% 1986, 99% avg.; 68% turning color, 84% 1986, 71% avg.; 10% harvested, 8% 1986; 71% fair, 29% good. Livestock, pastures mostly good. Primary activities: Planting row crops, vegetables; harvesting hay, vegetables, peaches; applying herbicides, cultivating row crops; spraying orchards; seeding pastures; general care of livestock, poultry.

ALASKA: Variable weather throughout Railbelt. Temperature lows ranged from normal to 6° warmer than normal, highs ranged 4° below normal to 5° above normal. Most areas continued drier than normal. Seasonal totals ranged from 0.80 in. drier than normal to 0.56 in. wetter than normal.

Days suitable for fieldwork 6.0. Topsoil moisture supplies 34% short, 64% adequate, 2% surplus. Subsoil moisture supplies 10% short, 86% adequate, 4% surplus. Barley for grain seeding over 95% finished. Commercial potato planting over 75% complete. Commercial lettuce, cabbage planting and transplanting on schedule. Livestock good to excellent. New growth prospects on hayfields, pastures generally good.

ARIZONA: Northward movement of moisture from Mexico 18th increased activity over southeast. Showers, thunderstorms over eastern two-thirds 20th produced heavy rain, pea-sized hail, gusty winds. Drier air prevailed 21st with mostly sunny skies west, scattered showers, thunderstorms east. Drying continued 22nd, 23rd with isolated activity northeast, mostly sunny conditions elsewhere. Precipitation little or none west, 0.50 in. southeast, White Mountains. Cooler air lowered minimum temperatures to seasonal levels. Average temperatures 2° below to 5° above normal.

Hail storm destroyed 5% of cotton crop Pima County 20th. Some leaf tattering occurred. Replanting damaged fields uncertain. Good progress, favorable conditions elsewhere; 14% squaring; earliest plants setting bolls. Irrigation, cultivation continued as needed. Black root rot affected limited acreage Graham County. Small grains 80% turning color, 96% 1986, 88% avg.; 11% harvested, 45% 1986, 28% avg. Wheat, barley maturing normally west, lodging increased. Yields normal to above normal. Harvest active central area. Light wheat aphid infestations, some spraying southeast. Alfalfa mostly good, favorable harvest conditions west; regrowth generally good. Corn growth rapid, plants 12 to 18 in. southeast, to 5 ft. central. Rapid growth sudan grass west; hay, green chop harvested. Some smut on oats apparent southeast. Spring lettuce harvest light southeast; poor market conditions blamed. Movement expected to increase. Shipments mixed vegetables central valley included carrots, greens, parsley, green onions. Field crews topping, sacking dry onions. Picking sweet corn expected 26th.

Valencia orange, grapefruit movement light central valley, harvest practically complete Yuma. Groves good. Grapes sizing well, approaching maturity west; some perlettes harvested. Peaches, apricots, nectarines harvested. Potatoes harvested. Melons progressed, watermelons harvested.

ARKANSAS: Very warm weather with light to heavy rainfall. Temperature extremes 59°; 95°. Rainfall 0.11 to 4.05 in.

Days suitable for fieldwork 7.0. Cotton 89% emerged; 19% poor, 43% fair, 38% good. Thrip control measures taken. Rice emergence uneven. Soybeans 7% very poor, 10% poor, 68% fair, 15% good; emergence 21%, 22% 1986, 11% normal. Wheat matured rapidly from dry conditions. Major activities: Cutting hay; controlling weeds, planting, cultivating crops; flushing rice.

CALIFORNIA: Low pressure brought below normal temperatures most of State. South coast temperatures near normal. Showers, thundershowers over mountain areas.

Small grains matured rapidly, harvest increased. Much dryland grain pastured, cut for hay. Expect low yields, reduced quality from other dryland grain. Rice seeding progressed well, most seeded about week early. Early cotton emergence good, thinning increased. Alfalfa harvest normal, heavy populations weevil treated. Safflower yields expected lower due to hot weather. Apples sprayed for codling moth. Apricot, cherry harvests continued, good yields. Table grape harvest accelerated, Coachella Valley. Table grape growers girdled vines, San Joaquin Valley. Cluster shattering reported due record heat early May. Nectarines, peaches, plums picked. Growers sprayed peaches for oriental fruit moth. Smaller prune sizes expected due record heat. Grapefruit movement active, Coachella Valley. Lemon picking continued, Ventura County. Navel, Valencia oranges harvested, San Joaquin Valley. Propping of almond limbs continued. Walnut crop developing normally. Artichokes moderate, good quality, Salinas. Broccoli fairly heavy Salinas, Santa Maria; good quality. Packing continued Fresno. Carrot digging continued San Joaquin Valley, southern districts. Harvest winding down Imperial, Coachella Valley, medium to large sizes, variable quality. Cauliflower fairly heavy Salinas, moderate Santa Maria, good quality. Celery harvest active Oxnard, Orange, Riverside, Imperial, San Diego, good quality. Harvest light, good quality, Santa Maria, Oceano. Cool weather slowed sweet corn harvesting Coachella Valley. Fields, northern districts continued to grow well. Lettuce fairly heavy Salinas, Santa Maria, variable quality. Cantaloup fields San Joaquin Valley continued to be pollinized. False chinch bugs, flea beetles still problem, some areas. Harvest started Imperial Valley, large sizes, good quality. Honeydew harvest started, Imperial Valley, light volume. Melon growth slowed by cool weather, Palo Verde Valley. However, cool temperatures expected to promote stronger vines, better quality. Watermelon fields progressed well, west Riverside County, with few fields affected by curly top virus. Supplies increased Imperial Valley. Red, yellow onion digging continued, Fresno. Dry onion harvest active Imperial, Coachella Valley. Dehydrator onion fields showed emergence, Tulielake-Butte Valley. Fall potato planting 85% complete

Tulelake-Butte Valley. Treatment to control rodent damage necessary. Packing sheds full time operating basis, increased demand. Summer potato planting progressed, Riverside County. Tomatoes for processing, fresh market progressed well, statewide. Fields for processing Fresno, treated for aphids. Fresh market packing active Palo Verde Valley. Ranges lower elevations continued poor. Rains some areas decreased nutritional values dry pastures. Marketing, placing cattle feedlots heavy. Stock water supplies critical levels many areas.

COLORADO: Temperatures 2° below to 3° above normal. Showers, thunderstorms except San Luis Valley throughout week; 0.17 to 1.66 in., 1.00 in. average for State.

Days suitable for fieldwork 3.0. Soil moisture adequate. Small grains, livestock good. Corn 71% emerged. Summer potatoes 62% emerged.

FLORIDA: Scattered showers east coast morning; west coast afternoon. Rainfall amounts mostly 0.50 in. but many 1.00 to 3.00 in. amounts in heavier storms. Partly sunny skies, light winds statewide. Daytime temperatures in 90s afternoon highs but otherwise seasonable 80s.

Soil moisture adequate Peninsula varied short to surplus Panhandle. Planting peanuts neared completion. Cotton, soybean planting active. Corn, tobacco, sugarcane progress favorable. Wheat harvest, haymaking active. Pastures mostly good; abundant growth with afternoon showers, warm nights. Livestock mostly good; only fair upper northeast. Citrus groves very good. Some irrigation; scattered rains not sufficient. New growth continued. New crop fruit shedding almost over. Valencias holding well; harvest active. Grapefruit movement slowed, supplies low. Caretakers busy with summer activities. Warm days, mild nights continued vegetable producing areas. Scattered rain, some locally heavy. Winds light, gusting during storms. Harvest spring crops nearly complete south, peaking central area. Volume leaders: Tomatoes, potatoes, watermelons, sweet corn, cucumbers, peppers, celery. Good supplies cabbage, squash, radishes, carrots, snap beans, eggplant. First zellwood corn harvested; ruskin tomato harvest at peak.

GEORGIA: Wet, warm week. Rain 2 to 3 days most reporting stations, totals wide range. Many areas 1.00 to 2.00 in., drier areas totals under 0.25 in. Most rain totals below normal. Temperatures 3 to 7° above normal. Extreme highs mid 80s northeast mountains to near 90s elsewhere. Coolest overnight lows upper 50s northeast mountains to mid 60s elsewhere.

Days suitable for fieldwork 5.1. Soil moisture 6% very short, 31% short, 60% adequate, 3% surplus. Corn 1% silked, 6% 1986, 10% avg. Cotton 44% fair, 66% good. Sorghum grain 40% fair, 60% good; 58% planted, 40% 1986, 49% avg. Peanuts 33% fair, 61% good, 6% excellent; 86% planted, 69% 1986, 88% avg. Soybeans 32% fair, 68% good. Tobacco 1% poor, 39% fair, 59% good, 1% excellent. Watermelons 54% fair, 38% good, 8% excellent; 98% planted, 98% 1986, 98% avg. Wheat 6% harvested, 11% 1986, 12% avg. Rye 7% poor, 45% fair, 47% good, 1% excellent. Other small grains 8% poor, 42% fair, 48% good, 2% excellent. Apples 3% poor, 9% fair, 79% good, 9% excellent. Peaches 10% poor, 19% fair, 70% good, 1% excellent; 2% harvested, 6% 1986, 6% avg. Pasture 6% poor, 26% fair, 65% good, 3% excellent. Hay 3% poor, 29% fair, 65% good, 3% excellent. Cattle 10% fair, 89% good, 1% excellent. Hogs 8% fair, 89% good, 3% excellent. Main activities: Planting, haying, spraying herbicides.

HAWAII: Mostly sunny with light to moderate showers. Days hot, humid; nights cool. Regular

irrigation continued. Crops fair to good. Variable winds 5 to 15 mph. Temperatures ranged mid 60s to mid 80s. Rainfall ranged none to 5.30 in.

Days suitable for fieldwork 7.0. Banana production steady. Papaya production increased. Chinese cabbage harvesting continued active. Watermelon production continued to increase.

IDAHO: Slightly below normal temperatures. Moist southerly flow brought rains to parts of State.

Days suitable for fieldwork 5.0. Potatoes 93% planted, 50% 1986, 68% avg. Spring wheat 100% emerged, 81% 1986, 80% avg. Spring wheat 1% very poor, 1% poor, 29% fair, 53% good, 16% excellent. Winter wheat 11% headed, 2% avg. Winter wheat 14% fair, 64% good, 22% excellent. Livestock good.

ILLINOIS: Temperatures averaged 2 to 4° above normal north, 4 to 8° above normal south. Precipitation 1.00 to 3.00 in. north. Central, south 0.10 to 0.50 in.

Days suitable for fieldwork 5.0. Soil moisture 61% short, 27% adequate, 12% surplus. Corn height average all fields 7 in., 7 in. 1986, 3 in. avg.; most advanced fields 13 in., 12 in. 1986, 5 in. avg.; 89% full stand; 2% replanted; 1% poor, 11% fair, 71% good, 17% excellent. Soybeans 2% poor, 29% fair, 65% good, 4% excellent. Wheat 50% filled, 43% 1986, 22% avg. Oats 10% headed, 13% 1986, 7% avg.; 1% poor, 14% fair, 63% good, 22% excellent. Alfalfa hay 1st crop 45% cut, 29% 1986, 21% avg.; 22% fair, 64% good, 14% excellent. Red clover crop 40% cut, 19% 1986, 12% avg.; 14% fair, 70% good, 16% excellent. Pasture 3% poor, 27% fair, 61% good, 9% excellent.

INDIANA: Temperature extremes wide. Temperatures 3 to 8° above normal. Lows in lower 40s, highs 90s. Precipitation highly variable, none to 2.00 in. north and central, none to 1.00 in. south.

Fieldwork averaged 3.4 days. Topsoil moisture 22% short, 53% adequate, 25% surplus. Subsoil moisture 38% short, 51% adequate, 11% surplus. Corn good; 93% emerged, 83% 1986, 57% avg. Soybeans 65% emerged, 40% 1986, 25% avg. Oats 12 in. high, 10 in. 1986, 8 in. avg. Alfalfa hay 35% cut once, 13% 1986, 18% avg. All other hay 20% cut, 7% 1986, 7% avg. Tobacco plants 16% set, 10% 1986, 10% avg. Pastures 4% poor, 41% fair, 53% good, 2% excellent. Rain slowed planting, tilling.

IOWA: Temperatures warm; varied, 93° Jefferson 19th to 37° Sibley 22nd. Precipitation spotty, amounts 0.50 in. most areas to 2.00 in. or more Red Oak, Montezuma, Red Rock 20th, Spencer 21st.

Days suitable for fieldwork 4.0. Topsoil moisture 18% short, 80% adequate, 2% surplus; subsoil moisture 7% short, 92% adequate, 1% surplus. Winter wheat, hay, oats mostly good to excellent. Corn 95% emerged, 67% 1986, 60% avg. Soybeans 80% planted, 35% 1986, 39% avg.; 40% emerged, 10% 1986, 11% avg. Livestock good to excellent, with little or no problems reported. Pastures fair to good with some reports of browning.

KANSAS: Temperatures averaged 66° northwest, 72° east central and 8 to 12° above normal. Precipitation light, district averages less than 0.10 in. except northwest 0.12 in. Locally heavier amounts 0.33 in., 0.66 in. widely scattered across State.

Days suitable for fieldwork 5.0. Soil moisture 29% short, 60% adequate, 11% surplus. Wheat, completely headed, grain filling stage excellent progress. Scattered stands south, eastern counties turning color. Moisture adequate to reach maturity with little or no additional rain. Corn planting neared completion ahead of schedule. Emerged stands good, excellent, no disease, insect problems rated. Sorghum planting good progress, ahead of

schedule. Soybean planting progress well ahead of schedule. Moisture adequate to complete planting intention most areas. Range, pasture excellent, grazing abundant.

KENTUCKY: Scattered showers, thunderstorms common midweek until end. Some areas heavy rainfall, others little or none. Average rainfall ranged from 0.75 to 1.50 in. Isolated spots received from 2.00 to 3.00 in. Temperature during period mid 70s.

Days suitable fieldwork 5.1. Soil moisture 37% very short, 49% short, 13% adequate, 1% surplus. Corn planting considerably ahead of normal. Soybean planting ahead of normal and 1986. Growers concerned about dry conditions. Burley transplanting 34% complete, 18% 1986, avg. 19%. Dark tobacco 33% set. Wheat virtually all headed, fair to good. Pasture, hay crops need rain.

LOUISIANA: Temperature 2 to 30 above normal. Temperature extremes 63°; 93°. Rainfall averaged none to 1.92 in.

Days suitable for fieldwork 5.6. Soil moisture 37% short, 61% adequate, 2% surplus. Spring plowing 99% complete, 100% 1986, 96% avg. Corn fair to good; 100% planted, 100% 1986, 99% avg.; 99% emerged, 100% 1986, 98% avg.; 7% silked, 12% 1986, 12% avg. Cotton 91% planted, 96% 1986, 90% avg.; 85% emerged, 93% 1986, 81% avg. Rice 94% planted, 98% 1986, 94% avg.; 90% emerged, 96% 1986, 89% avg. Sorghum 80% planted, 95% 1986, 87% avg.; 59% emerged, 91% 1986, 81% avg. Soybeans 31% planted, 59% 1986, 40% avg.; 14% emerged, 41% 1986, 28% avg. Sweetpotatoes 37% planted, 54% 1986, 54% avg. Winter wheat fair; 100% headed, 100% 1986, 100% avg.; 95% turning color, 97% 1986, 90% avg.; 19% harvested, 38% 1986, 19% avg. Hay 1st cutting 43%, 51% 1986, 43% avg. Sugarcane, vegetables, pastures, livestock fair to good. Harvest of early peaches underway. Main activities: Planting cotton, sorghum, soybeans, sweetpotatoes; harvesting hay, wheat, vegetables; applying fertilizer, herbicide, pesticide.

MARYLAND & DELAWARE: Maryland: Temperatures averaged 64°, 65° normal; highest temperature 93°. Precipitation averaged 1.15 in., ranging from 2.42 in. Oakland to 0.34 in. Washington National Airport.

Days suitable for fieldwork 4.0. Topsoil moisture adequate. Subsoil moisture adequate. Wheat, oats, barley, rye good. Corn 80% planted, 85% avg. Soybeans 20% planted, 20% avg. Tobacco 20% transplanted, 25% avg. Sweet corn 80% planted, 85% avg. Alfalfa 40% 1st cut, 40% avg.

Delaware: Temperatures averaged 64°, 64° normal; lowest temperature 48° Wilmington; highest temperature 92° Dover. Precipitation averaged 1.24 in.

Days suitable for fieldwork 4.5. Topsoil moisture adequate. Subsoil moisture adequate. Wheat good. Barley, rye fair to good. Corn 80% planted, 85% avg. Soybeans 15% planted, 25% avg. Alfalfa 70% 1st cut.

MICHIGAN: Temperatures ranged 3 to 6° below normal upper Peninsula; 3 to 5° above normal lower Peninsula. Temperature extremes 30°; 90°. Precipitation ranged from 0.11 to 2.31 in. across State.

Days suitable for fieldwork 4.5. Soil moisture 55% short, 45% adequate. Corn 95% planted, 85% 1986, 80% avg.; 1% very poor, 4% poor, 20% fair, 50% good, 25% excellent. Planted acres 70% emerged. Soybeans 50% planted, 20% 1986, 30% avg. Wheat 4% headed, 4% 1986, 5% avg.; 5% very poor, 10% poor, 30% fair, 45% good, 10% excellent. Major activities: Corn, soybean, vegetable, potato

planting, pesticide application, fruit thinning asparagus harvesting. Alfalfa weevil active in hay.

MINNESOTA: Temperatures averaged near normal to 7° below normal. Temperature extremes 28°; 96°. Precipitation averaged near normal to 0.40 in. below normal for southern one-third and east central; 0.34 to 2.10 in. above elsewhere. Precipitation totals averaged 1.76 to 2.77 in. northern one-third and west central, 0.50 to 1.13 in. elsewhere. Greatest weekly total 3.42 in.

Days suitable for fieldwork 3.9. Topsoil moisture 11% very short, 26% short, 54% adequate, 9% surplus. Spring wheat 99% emerged, 36% 1986, 67% avg.; 10% jointing, none 1986, 1% avg. Oats 99% emerged, 63% 1986, 78% avg.; 10% jointing, none 1986, 1% avg. Barley 99% emerged, 29% 1986, 61% avg.; 8% jointing, none 1986, 1% avg. Corn 99% planted, 67% 1986, 75% avg.; 92% emerged, 30% 1986, 36% avg. Soybeans 85% planted, 32% 1986, 37% avg.; 34% emerged, 3% 1986, 6% avg. Sunflowers 85% planted, 7% 1986, 31% avg. Flax 87% planted, 11% 1986, 37% avg. Dry edible beans 81% planted, 28% 1986, 31% avg. Potatoes 91% planted, 42% 1986, 55% avg. Green peas 93% planted, 85% 1986, 81% avg. Sweet corn 71% planted, 51% 1986, 48% avg. Field corn 1% very poor, 7% poor, 34% fair, 53% good, 5% excellent. Spring wheat 1% very poor, 2% poor, 37% fair, 54% good, 6% excellent.

MISSISSIPPI: Temperatures 1 to 80 above normal; extremes 62°; 95°. Widely scattered thundershowers during week. Greatest 24-hour total rainfall 2.07 in.

Days suitable for fieldwork 4.7, 4.0 1986, 4.0 avg. Soil moisture 3% very short, 10% short, 69% adequate, 18% surplus. Corn 100% planted, 98% 1986, 95% avg.; 96% emerged, 94% 1986, 81% avg.; 31% fair, 64 good, 5% excellent. Wheat 18% mature, 37% 1986, 27% avg.; 6% very poor, 4% poor, 45% fair, 38% good, 7% excellent. Sweetpotatoes 55% planted, 45% 1986, 45% avg. Peanuts 67% planted, 72% 1986, 63% avg. Watermelons 93% planted, 82% 1986, 86% avg. Hay 22% harvested, 22% 1986, 22% avg. Rice 99% planted, 99% 1986, 92% avg.; 90% emerged, 97% 1986, 74% avg.; 9% poor, 33% fair, 55% good, 3% excellent. Sorghum 80% planted, 83% 1986, 63% avg.; 70% emerged, 74% 1986; 32% fair, 60% good, 8% excellent. Cotton 95% planted, 98% 1986, 94% avg.; 79% emerged, 95% 1986, 71% avg.; 10% poor, 45% fair, 38% good 7% excellent. Soybeans 27% planted, 36% 1986, 31% avg.; 14% emerged, 24% 1986; 17% avg.; 15% poor, 41% fair, 42% good, 2% excellent.

MISSOURI: Temperatures 5 to 100 above normal. Rainfall spotty up to 2.00 in. north central, south central parts, less than 0.25 northwest, southwest.

Days suitable for fieldwork 4.9. Topsoil moisture 68% short, 30% adequate, 2% surplus. Corn fair to good. Cotton mostly fair to good. Herbicides working poorly dry areas. Alfalfa hay 1st cutting 62%, 33% 1986, 28% avg. Other hay 28% harvested, 14% 1986, 9% avg. Pastures 2% very poor, 18% poor, 59% fair, 19% good, 2% excellent.

MONTANA: Temperatures 2 to 8° below normal, coolest east. Precipitation 1.00 to 2.00 in. southern half, parts of northeast. Rain light remainder.

Days suitable for fieldwork 3.3. Topsoil moisture 47% short, 44% adequate, 9% surplus. Subsoil moisture 20% short, 77% adequate, 3% surplus. Barley 35% fair, 60% good, 5% excellent. Oats 22% fair, 69% good, 9% excellent. Sugarbeets 46% fair, 27% good, 27% excellent. Winter wheat 65% pre-boot, 33% boot. Cattle, sheep 75% moved to summer ranges. Pasture, range feed 10% poor, 61% fair, 23% good, 6% excellent.

NEBRASKA: Week wet and cool, rain every day 1.00 to 3.00 in. common. Temperatures ranged near normal southeast to 3° below normal north, west. Extremes 37°, 91°.

Days suitable for fieldwork 1.7. Topsoil moisture 3% short, 70% adequate, 27% surplus. Subsoil moisture 3% short, 81% adequate, 16% surplus. Wheat 99% jointed, 100% 1986, 90% avg. Russian wheat aphid damage increased Panhandle, southwest; spreading to oats, barley. Corn 80% emerged, 80% 1986, 46% avg.; some replanting southeast. Soybeans 30% emerged, 24% 1986, 18% avg.; bean leaf beetle reported east central. Sorghum 25% emerged, 28% 1986, 12% avg. Alfalfa mostly good, 1st cutting 25% completed, 16% 1986, 11% avg. Weevils still problem. Wild hay good. Range, pasture feeds adequate to surplus. More cattle moved to grass.

NEVADA: Warm, moist air mass from south brought showers most areas. Flash floods reported scattered sections. Temperatures above normal early, cooler air flow late in period produced normal temperatures most areas for entire week.

Potato crop about 25% emerged. Light frosts detrimental all emerged crops. Additional precipitation range areas beneficial.

NEW ENGLAND: Precipitation averaged 0.05 to 0.25 in. western Vermont, eastern Massachusetts, Rhode Island, coastal Connecticut, 0.25 to 0.50 in. coastal Maine, central Connecticut, 0.50 to 1.00 in. northern and central Maine, New Hampshire, eastern Vermont, western and central Massachusetts, northwest Connecticut. Temperatures averaged near normal. Frost reported north and areas southern Maine, New Hampshire, Vermont.

Days suitable for fieldwork 6.5. Soil moisture 14% very short, 38% short, 48% adequate. Grazing availability 6% very short, 44% short, 44% adequate, 6% surplus. Fieldwork 6.0 days behind schedule south, 1.0 day behind schedule north. Maine potatoes 55% planted, 70% 1986, 55% avg. Rhode Island potatoes 90% planted, 93% 1986, 92% avg. Field corn 52% planted, 60% 1986, 52% avg. Field corn 9% emergence, 37% 1986, 22% avg. Sweet corn 55% planted, 60% 1986, 52% avg. Sweet corn 25% emergence, 40% 1986, 33% avg. Major farm activities: Planting, fertilizing, spreading manure, spraying.

NEW JERSEY: Temperatures averaged near normal north, below normal central, south. Extremes 42°, 93°. Rainfall averaged 0.89 in. north, 0.78 in. central, 1.24 in. south. Heaviest 24-hour total 0.97 in. on 20th, 21st. Estimated soil moisture percent field capacity averaged 88% north, 79% central, 84% south. Four inch soil temperatures averaged 60° north, 61° central, 62° south.

Early vegetable harvest increased. Planting summer vegetables active. Showers caused some interruptions; cloudy conditions not good for hay curing. Peaches, strawberries continued to size. Corn planting very active; soybean planting began. Hay yields good. Pasture growth very good.

NEW MEXICO: Weekly average temperatures below normal as moist air accompanied by showers, thundershowers persisted throughout State. Temperatures 30° central highlands to 89° southern desert. Precipitation less than 0.50 in. southern desert to above 4.00 in. southeastern plains.

Days suitable for fieldwork 5.8. Soil moisture 38% short, 54% adequate, 8% surplus. Hail damage 70% none, 30% light. Wind damage 80% none, 20% light; numerous tornado watches south half of State. Alfalfa 45% fair, 55% good. Cotton 22% fair, 78% good. Corn 10% fair, 90% good. Barley 13% fair, 87% good. Wheat 22% fair, 78% good. Grain sorghum planting increased. Pecans 17% fair, 83% good. Lettuce 34% fair, 33% good 33%

excellent; harvesting Mesilla Valley on order only due to very poor market. Cattle 8% poor, 23% fair, 69% good. Sheep mostly good. Ranges 23% poor, 8% fair, 54% good, 15% excellent.

NEW YORK: Temperatures averaged near to slightly above normal. Precipitation averaged below normal except south central. Most rain 18th, 21st, 22nd.

Days suitable for fieldwork 6.0. Soil moisture mostly short. Pastures fair to good. Corn 64% planted, 61% 1986, 59% avg. Oats 88% seeded, 91% 1986, 72% avg. Lack of rain affected germination, growth. Tree fruits to or beyond petal fall, set generally good. Growers thinned, sprayed.

NORTH CAROLINA: Temperatures averaged 2 to 6° above normal across State. Temperature extremes 45°, 92°. Precipitation ranged from 0.02 to 1.92 in. across State.

Days suitable for fieldwork 5.7. Soil moisture 1% very short, 37% short, 62% adequate. Small grains fair to mostly good. Oats 2% poor, 20% fair, 75% good, 3% excellent. Barley 17% fair, 83% good. Rye 19% fair, 81% good. Irish potatoes 8% poor, 29% fair, 63% good. Pasture fair to mostly good. Tobacco plantbeds 5% poor, 37% fair, 56% good, 2% excellent. Tobacco plant supplies 19% short, 76% adequate, 5% surplus. Flue-cured tobacco 85% planted, 91% 1986, 90% avg. Tobacco in fields 3% poor, 24% fair, 70% good, 3% excellent. Peanuts 86% planted, 87% 1986, 86% avg. Sorghum 47% planted, 46% 1986, 46% avg. Sweetpotatoes 20% planted, 31% 1986, 30% avg. Corn 3% poor, 38% fair, 59% good. Cotton 5% very poor, 5% poor, 15% fair, 75% good. Major farm activities: Planting corn, soybeans, peanuts, sorghum, cotton, truck crops; land preparation; transplanting sweetpotatoes, tobacco; tending livestock; transplanting Christmas trees, ornamentals; machinery repair, maintenance; cutting hay, silage; fertilizer, chemical applications; cultivating corn; general farm maintenance.

NORTH DAKOTA: Cool wet week. Temperatures 3 to 5° below normal. Extremes 27° central to 93° southeast. Abundant rain throughout State. Heaviest east 3.12 in.

Days suitable for fieldwork 2.5. Topsoil moisture replenished, 12% short, 76% adequate, 12% surplus. Subsoil 2% short, 93% adequate, 5% surplus. Planting ahead of normal for most crops. Spring wheat 98%, 86% 1986, 84% avg.; durum 97%, 79% 1986, 77% avg.; oats 99%, 87% 1986, 82% avg.; barley 99%, 88% 1986, 88% avg.; corn 72%, 43% 1986, 52% avg.; flax 60%, 42% 1986, 45% avg.; soybeans 51%, 34% 1986, 56% avg.; potatoes 92%, 58% 1986, 68% avg.; sunflower 38%, 21% 1986, 25% avg.; dry edible beans 46%, 29% 1986, 36% avg.; winter wheat 11% emerged through stooling, 39% jointing, 50% boot and beyond; spring wheat 85% emerged, durum 80%, oats 85%, barley 91%. Pastures improved, mostly good.

OHIO: Average temperatures 2 to 4° above normal north; 4 to 9° above normal south. Average lows mid 50s to mid 60s. Average highs mid 70s to mid 80s. Precipitation widespread ranging from 0.50 in. far north to 2.00 in. or more elsewhere.

Days suitable for fieldwork 3.7. Soil moisture 12% short, 63% adequate, 25% surplus. Rain slowed fieldwork, brought much needed moisture. First cutworms sighted in corn. Corn, soybeans good. Few row crop fields weedy; not enough moisture at right time to activate herbicides. Small grains good, no significant lodging yet. Alfalfa harvest rapid as control for weevil. Rain interfered with hay curing some areas. Grasslands good. Tomato transplanting slow; plants late arriving from south, some frost damaged. Strawberry picking just began.

OKLAHOMA: Temperatures averaged normal Panhandle to 8° above normal northeast. Precipitation averaged 1.60 in. southeast to 5.85 in. west central.

Days suitable for fieldwork 6.2. Topsoil moisture 50% short, 50% adequate. Subsoil moisture 25% short, 75% adequate. Wheat 2% poor, 78% fair, 20% good; 97% heading, 100% 1986, 95% avg.; 45% soft dough, 95% 1986, 40% avg. Cool, wet weather promoted filling of wheat heads north. Weeds, diseases concern of northern growers. Sorghum 15% planted, 30% 1986, 25% avg. Cotton 30% planted, 35% 1986, 25% avg. Recent rains helped germination, should increase plantings. Pastures good to fair. Cattle good; marketings average, prices steady to slightly lower than preceding week.

OREGON: Cool, dry week. Temperatures 4 to 5° below normal east; 1 to 3° below normal west. Overnight lows eastside low 20s, westside 30s to 40s. Warm daytime highs statewide. Less than 0.10 in. precipitation east, barely more than traces west.

Soil moisture 53% short, 47% adequate. Barley 99% seeded, 99% 1986, 99% 1985. Crop development continued much ahead of normal. Soils continued to dry out despite cooler weather. Moisture stressed grains mainly on shallow soils east. Spring grain seeding winding down southeast. Winter wheat flowered, most disease spraying completed west. First hay cuttings continued, much ahead of normal. Bluegrass heading central area. Cut red clover seed fields for hay, silage Willamette Valley. Early strawberries ripe, harvest began end of week. Raspberries, blackberries full bloom. Cranberry bloom 10 to 50% depending on variety south coast. Black vine weevil continued as major insect problem. Pears progressed well, escaped freeze damage from 2 nights of 30° temperatures Jackson County. Pears, apples received first cover sprays, no frosts this spring, some anjou pear drop due to heat Hood River County. Cherry crop outstanding, especially Royal Annes Wasco County. Thinning peaches Willamette Valley. Squash, broccoli in first leaf stage Willamette Valley. Most vegetable crops irrigated. Sweet corn development advanced, planting continued on schedule, some leaf discoloration by frost west. Snap bean planting continued on schedule west. Potato planting neared completion central area, Klamath Basin. Livestock good to excellent. Ranges, pastures mostly good west, some irrigation began. Eastern range 3 to 4 weeks ahead of normal, high elevations mostly good, low elevations very dry. Ranchers prepared to move cattle to Forest Permits June 1. Stock water hauling continued some areas southeast.

PENNSYLVANIA: Warm, wet week. Cool temperatures during midweek. Average temperature 63°, 4° above normal. Temperature extremes 36°; 91°. Average precipitation 1.18 in., 0.36 in. above normal.

Days suitable for fieldwork 3.0. Soil moisture 12% short, 59% adequate, 29% surplus. Plowing 91% complete, 94% 1986, 87% avg. Corn 74% planted, 79% 1986, 66% avg. Potatoes 32% planted, 88% 1986, 81% avg. Oats 97% planted, 99% 1986, 94% avg. Soybeans 35% planted, 35% 1986, 29% avg. Barley 20% pre-boot, 8% 1986; 13% boot, 32% 1986; 67% headed, 60% 1986. Wheat 35% pre-boot, 26% 1986; 33% boot, 41% 1986; 32% headed, 33% 1986. Wheat 4% poor, 20% fair, 53% good, 23% excellent. Oats 2% poor, 18% fair, 51% good, 29% excellent. Hay stands mostly good to fair. Feed from pastures mostly average to above average. Peaches 100% full bloom or past, 100% 1986. Cherries 100% full bloom or past, 100% 1986. Apples 2% pre-pink; 3% pink; 95% full bloom or past, 100% 1986. Activities: Planting corn, potatoes, oats, soybeans; spring

plowing; fence repair; hauling manure; spreading fertilizer; machinery maintenance; caring for livestock.

PUERTO RICO: Island average rainfall 4.01 in., 2.49 in. above normal. Highest weekly total 17.87 in. Highest 24-hour total 6.00 in. Temperature averaged about 78 to 80° on coasts, 72 to 76° interior division. Mean station temperature ranged from 66 to 81°. Extremes 57°; 93°. San Juan mean temperature 80°, below normal. Total rainfall 6.15 in., 4.72 in. above normal.

SOUTH CAROLINA: Widely scattered showers produced below normal rainfall. Average low temperature mid to upper 60s. Average high temperature mid to upper 80s.

Days suitable for fieldwork 5.5. Soil moisture 9% very short, 56% short, 35% adequate. Soybean planting slowed due to dry soils; 24% planted, 23% 1986, 25% avg. Cotton fair to good; 93% planted, 95% 1986, 93% avg. Corn planting complete, growing well. Peanuts fair to good; 82% planted, 70% 1986, 85% avg. Small grains good; over 50% turn color. Peaches fair to good; harvest to start last week of May. Early vegetable harvest underway.

SOUTH DAKOTA: Average temperatures ranged 4 to 9° below normal. Extremes 28°; 93°.

Days suitable for fieldwork 4.2. Topsoil moisture short east, adequate elsewhere; 4% critical, 28% short, 59% adequate, 9% surplus. Corn planting neared completion, soybeans, sunflower, sorghum planting well underway. Crops, pastures benefited from rain. Calving 94%, lambing 96% complete. Livestock good to excellent. Range, pastures fair to good. Feed, stock water adequate to surplus. Some fly problems on cattle.

TENNESSEE: Warm, moist week. Record high temperatures. Averaged 5 to 10° above normal. Highs middle 90s. Showers statewide.

Days suitable for fieldwork 5.6. Soil moisture 36% very short, 48% short, 16% adequate, 1% surplus. Corn 92% planted, 91% 1986, 75% avg. Corn 2% very poor, 16% poor, 59% fair, 23% good. Tobacco 40% transplanted, 30% 1986, 35% avg. Wheat 45% turning color, 55% 1986, 30% avg. Wheat 4% very poor, 12% poor, 56% fair, 27% good, 1% excellent. Alfalfa 1st cutting 82%, 70% 1986, 65% avg. Alfalfa 1% very poor, 17% poor, 57% fair, 25% good. Cattle mostly good. Pastures 1% very poor, 16% poor, 55% fair, 27% good, 1% excellent.

TEXAS: Scattered rain received most State ranged from traces to heavy amounts South. Localized hail minor damage Valley, Central. Rain beneficial to crops. Plains, planting sorghum, cotton, increased. Moisture benefited small grain crop. Blacklands, Central scattered rain increased growth corn, cotton, grain sorghum. Rain delay wheat, oat harvest Central. Upper Coast open weather relief after several weeks rainfall. Crops benefited from sunshine. Range pasture conditions improved across State. First cutting hay underway eastern portions.

Crops: Corn planting virtually completed High Plains, good growth. Early planted fields good stands. Growth good Blacklands to southeast many early fields tasseling. Cultivating activities slowed by rain northern areas. Corn 6% silked, 41% 1986, 31% avg. Grain sorghum planting increased Plains. Dry weather caused slow start; recent rains helped soil moisture. Planted fields good progress. Growth good Blacklands, Central. Insect problems high untreated fields. Some cultivation occurred lighter soils. Valley many fields heading. Sorghum 5% headed, 31% 1986, 19% avg. Sorghum none turning color, 2% 1986, 2% avg. Dryland cotton planting increased Plains moisture

available. Early fields emerged good stands. Fields squaring Blacklands, Central, South, Valley. Wet weather delayed completion planting Blacklands. Producers Trans-Pecos continued irrigated fields to stands. Planting full swing. Good development Costal Bend. Some hail damage Valley. Cotton 4% squaring, 9% 1986, 7% avg. Small grain harvest slowed Central, Southern areas. Minor hail damage Central. Fields continued mature Low Plains Cross-Timbers harvest soon. Rain help later maturing fields. Most fields heading out High Plains look good dryland needing another good rain. Wheat 37% turning color, 77% 1986, 49% avg. Wheat 1% harvested, 14% 1986, 6% avg. Rice fields Upper Coast varied stands. Fertilization continued. Flooding fields decreased because recent rains, will increase when dryer weather sets in. Soybean planting dryer areas Upper Coast. Stands fair. Good moisture for germination. Peanut planting slow major producing areas because wet ground. Planting increased with favorable moisture. Fields Plains up to stands. Other crops planted: Peanuts 24%, 30% 1986, 24% avg. Soybeans 33%, 40% 1986, 21% avg. Sunflowers 8%, 32% 1986, 27% avg. Other crops harvested: Oats 12%, 14% 1986, 6% avg.

Commercial Vegetables: Rio Grande Valley harvest onions, cantaloups delayed by rain. Disease pressures high melon fields. Quality looks fair. San Antonio-Winter Garden harvest activities slowed by rain. Cucumbers good progress. Trans-Pecos tomatoes well. Onion harvest soon. Cantaloups good progress. East harvest cabbage, onions, greens continued slow pace. Some sweetpotatoes set out. Watermelons good. High Plains onions, potatoes good progress. Irrigation heavy some fields. Spraying pecans, casebearers widespread across State. Good sets reported many areas.

Range and Pasture: Ranges, pastures improved across State. Producers continued fertilizing East. First cutting hay between rain showers. Livestock markets all classes strong. Livestock improved. Movement livestock to grass pastures increased. Haying damaged small grains continued.

UTAH: Precipitation moderate to very heavy. Temperature maximums 50 below to 20 above normal. Maximums 4 to 70 above normal.

Days suitable fieldwork 4.1. Soil moisture 29% short, 59% adequate, 12% surplus. Winter wheat 58% booting, 41% 1986, 22% avg. Spring wheat 28% jointed, 8% 1986, 3% avg. Barley 28% jointed, 15% 1986, 14% avg. Oats 33% jointed, none 1986, none avg. Corn 84% planted, 64% 1986, 56% avg.; 63% emerged, 16% 1986, 25% avg. Alfalfa 1st cutting 4% complete, 10% 1986, 2% avg. Rain slowed 1st cutting hay, improved ranges. Livestock generally excellent, movement to summer range continued. Major farm activities: Hay machinery maintenance, irrigation, moving livestock, fencing, planting silage corn, spraying alfalfa weevil.

VIRGINIA: Dry, seasonable beginning period. Moderate rain most areas mid to late period. Temperatures averaged below normal north, east; above normal southwest; range 35 to 93. Rainfall averaged 0.50 in., range 0.19 to 1.76 in. More scattered rain weekend.

Days suitable for fieldwork 4.3. Topsoil moisture 23% short, 54% adequate, 23% surplus. Most crops good to excellent due to moist, moderate spring. Corn 78% planted, 87% 1986, 89% avg. Corn

germinating well. Soybeans 20% planted, 30% 1986, 31% avg. Peanut planting complete, weekend rain should encourage germination. Tobacco transplanting active but behind. Flue-cured transplanting 38% complete, 66% 1986, 73% avg. Burley transplanting 8% complete, 6% 1986, 25% avg. Wheat good to excellent. Spraying for armyworms, cereal leaf beetles some areas; no major insect problems. Fruit crop excellent, spraying active. Sprayed potatoes for Colorado potato beetle. Hay, pastures excellent. Damp, light rain inhabited hay curing some areas.

WASHINGTON: Warm temperatures statewide; reports averaged 50 below normal. Average precipitation below normal.

Soil moisture 40% short, 60% adequate. Climatic conditions could stress crops some areas. Current crop mostly good. Winter wheat 20% headed, 2% 1986, 10% avg. Spring grains to begin heading soon. Potato crop in, mostly emerged. Asparagus cutting continued. Planting spring vegetables continued. Apple, pear crops look good. Earliest cherry harvest may start June 1. Cattle, sheep out to range. Hay, roughage supplies surplus. Alfalfa hay cutting in progress. Rapeseed bloom complete.

WEST VIRGINIA: Average temperature 690, 3 to 100 above normal. Extremes 390 Weston; 920 Ripley, Creston. Precipitation averaged 1.18 in.; 0.09 in. below normal southwest, 0.12 to 0.74 in. above normal elsewhere.

Days suitable for fieldwork 3.6. Soil moisture 5% very short, 22% short, 61% adequate, 12% surplus. Wheat, barley, oats good to fair. Oats 96% planted. Corn 77% planted. Tobacco beds fair, 98% emerged, 14% set. Hay, pasture good to fair. Farm activities: Farm maintenance, hay harvesting, planting.

WISCONSIN: Temperatures averaged 570, 30 below normal. Extremes 290; 920. Rainfall 0.60 to 2.00 in. North aided, still dry.

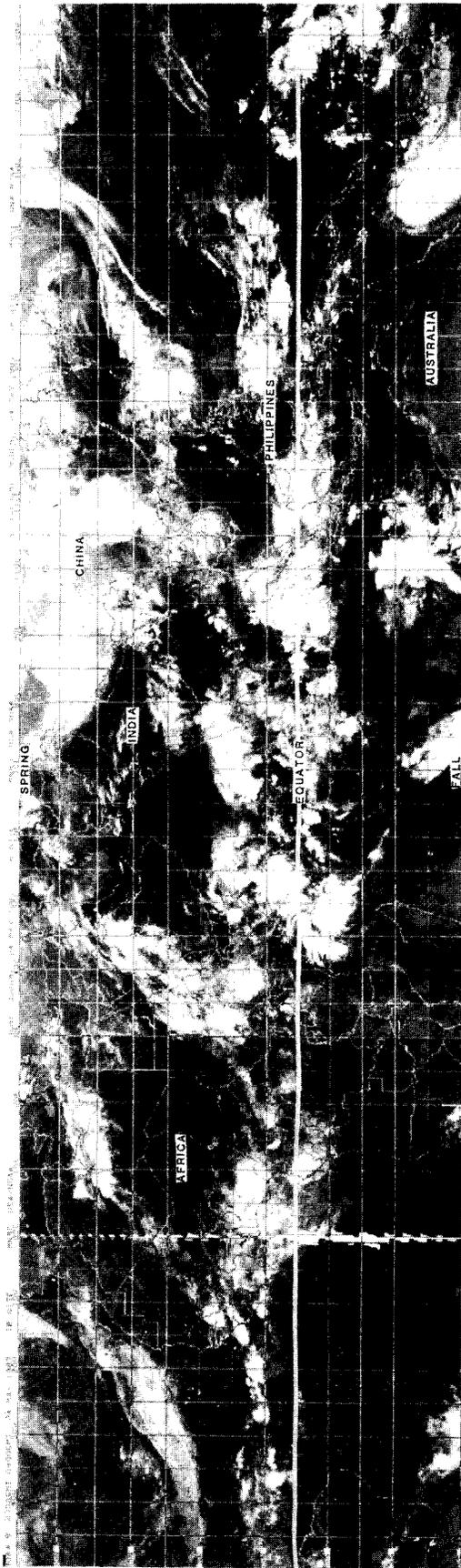
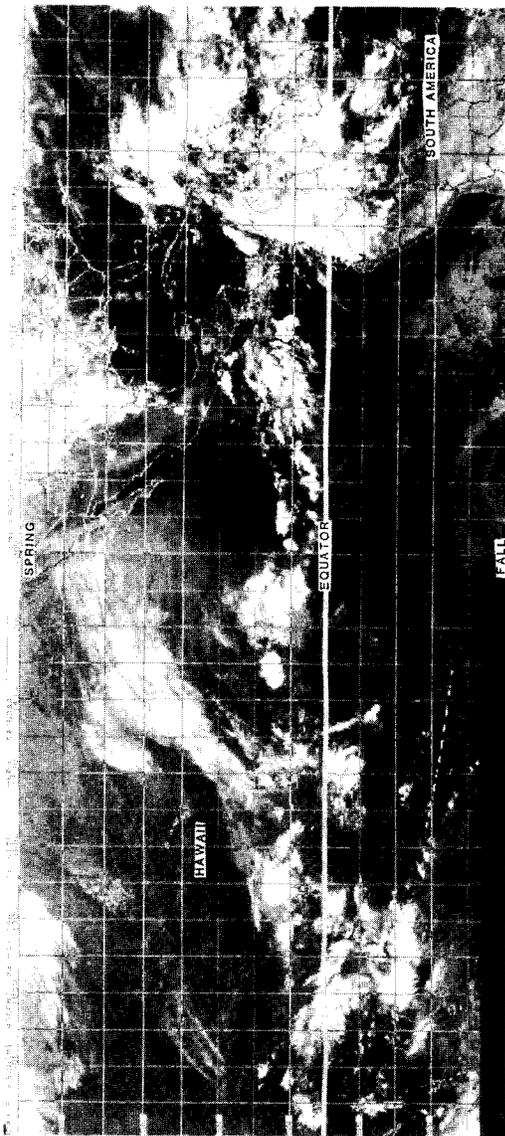
Days suitable for fieldwork 3.5. Soil moisture 31% short, 52% adequate, 17% surplus. Corn 92% planted, 83% 1986, 71% avg. Dark greens, very good. Soybeans 44% planted, 34% 1986, 32% avg. Plants emerged. Oats very good. First crop hay below average; due to winterkill, dry weather. Alfalfa weevils present. Snap beans up and good.

WYOMING: Temperatures above normal southern two-thirds, northern one-third below normal. Well above normal rainfall.

Days suitable for fieldwork 3.0. Topsoil moisture 75% adequate, 25% surplus. Subsoil moisture 15% short, 75% adequate, 10% surplus. Spring wheat most planted, 95% 1986, 90% avg.; 85% emerged, 80% 1986, 70% avg. Oats 90% planted, 90% 1986, 85% avg.; 70% emerged, 60% 1986, 55% avg. Barley most planted, 95% 1986, 90% avg.; 90% emerged, 75% 1986, 75% avg. Sugarbeets 90% emerged, 80% 1986, 75% avg. Corn 75% planted, 70% 1986, 70% avg.; 40% emerged, 15% 1986, 30% avg. Potatoes 65% planted, 55% 1986, 55% avg.; 40% emerged, 10% 1986. Dry beans 30% planted, 5% 1986, 15% avg.; 25% emerged. Winter wheat fair to good. Russian aphid infestations reported Goshen, Platte, Laramie Counties. Livestock good to excellent. Spring calving wind-up stages. Lambing, shearing range flock continued. Calf, lamb losses light to normal. Ranges, pastures mostly good.

Global Weather Satellite Image

May 24, 1987



International Weather and Crop Summary

May 17 to 23, 1987

HIGHLIGHTS:

UNITED STATES ... Rain hampers planting in the central and northern Great Plains, Corn Belt, Southeast, and lower Delta, but provides much needed moisture for seed germination and small grain development. Insufficient moisture eases in the eastern half of the Nation, but additional moisture is needed, especially in the Delta and Southeast.

U.S.S.R. ... Mild weather and periods of dryness help planting to progress at a steady pace. Winter grains are mostly in the jointing stage.

EUROPE ... Persistent showers delay summer crop planting in the southeast. Dry weather and scattered, light frost in northern Spain cover filling winter grains.

SOUTH ASIA ... Showers linger in grain areas of northern Pakistan and northern India. Showers in southern India improve moisture reserves for the planting of rice, cotton, and groundnuts.

SOUTHEAST ASIA ... Mostly light rain covers Thailand's vegetative rainfed crops. Light to moderate rain covers the Philippines.

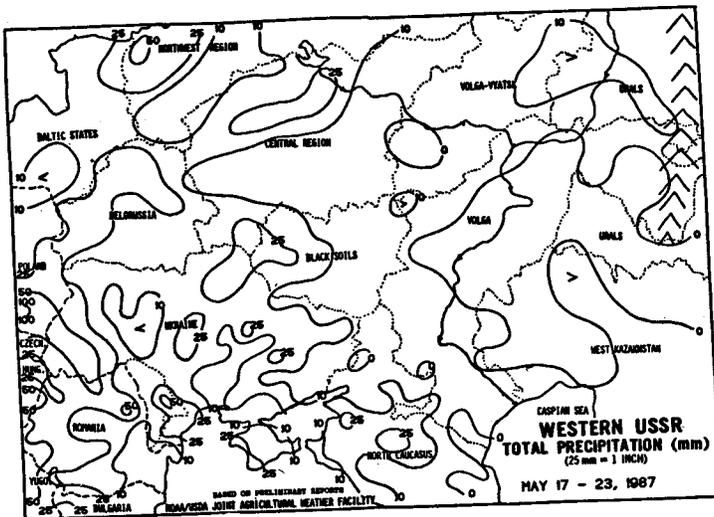
EASTERN ASIA ... Unfavorable dry weather over Shandong, northern Henan, and southern Hebei stresses crops. Showers benefit crops in the Manchurian Valley.

SOUTH AMERICA ... More rain hampers southern Brazil's late soybean harvest. In Argentina, showers slow harvest in the northeast while cool, dry weather favors Buenos Aires soybean harvest.

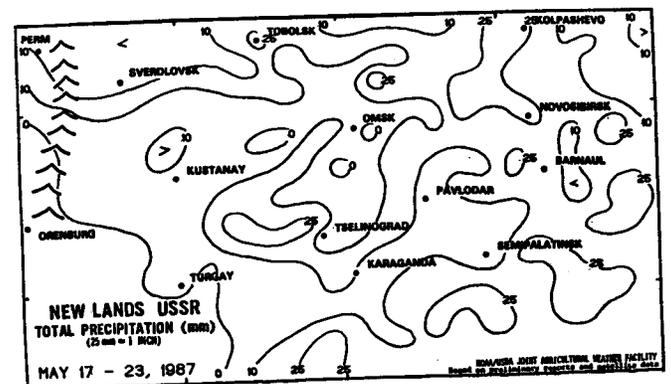
AUSTRALIA ... Dry weather allows an increase in winter wheat planting.

Mexico ... Showers benefit cotton and rangeland growth in the north and corn planting in the Southern Plateau.

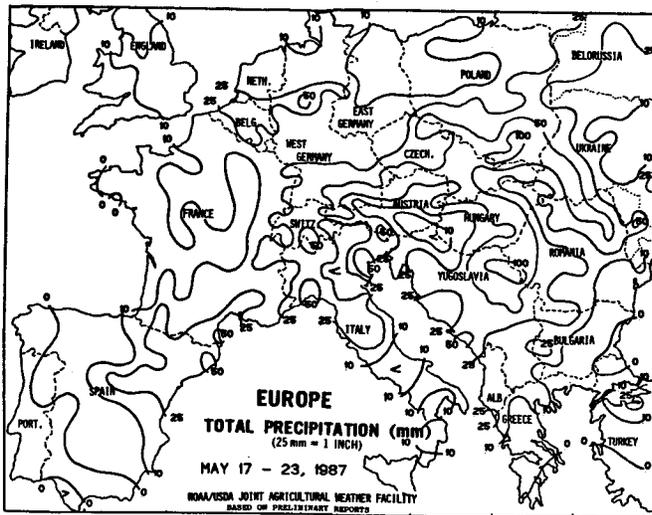
Canada ... Colder weather, frost and some snow in the northwestern grain areas cover newly emerging crops.



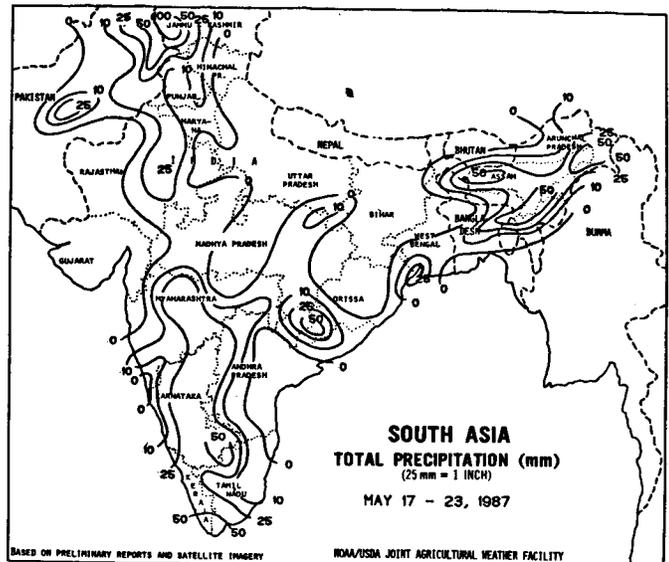
U.S.S.R. ... In western U.S.S.R., high pressure over the Urals kept the eastern region unseasonably warm and dry. The warm, dry weather was highly beneficial because it allowed spring planting to increase at a rapid pace and enhanced vegetative winter grain growth. By week's end, shower activity increased in western and southern areas, with rainfall ranging from 10 to 38mm. Locally heavy rain (50 to 62mm) covered crop areas in the southwestern Ukraine. Planting continued to increase during the week, but, overall, progress as of May 18 was the slowest in the last 15 years. Winter grains entered the heading stage in crop areas around Krasnodar, about 1 week behind normal. Winter grains over the remainder of the region were in the jointing stage.



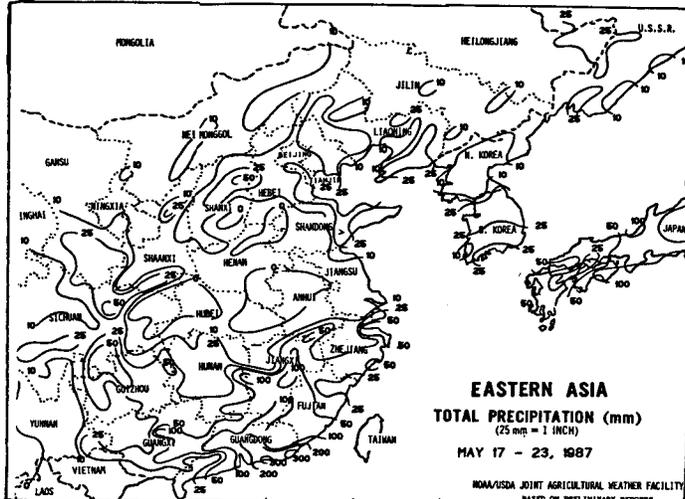
In the New Lands, precipitation was generally in the form of scattered showers, with eastern crop areas receiving more precipitation than those further west. Spring wheat planting was well underway, especially over the southern half of the region where planting begins and progresses northward. Several days of dry weather over the southern Urals and Kazakhstan allowed planting to progress with few delays. Weekly temperatures were above normal in the west and below normal in the east.



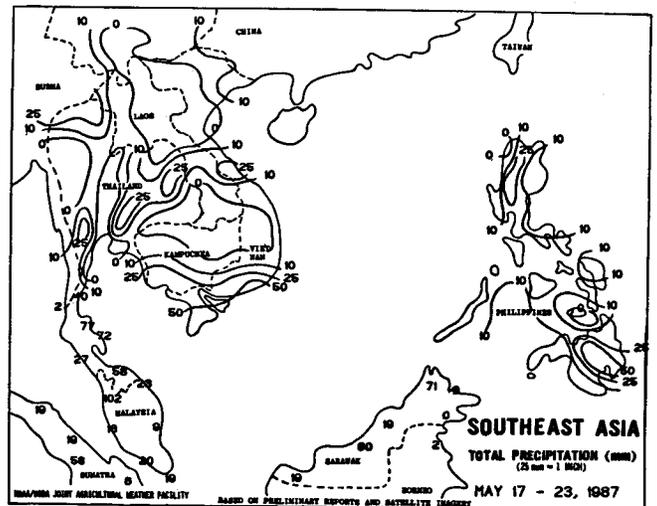
EUROPE ... Persistent showers (25 to 100mm) in Hungary, Yugoslavia, and Romania increased moisture reserves but continued to delay summer crop planting. Winter wheat in the southeast is mostly in the heading stage of development. Light to moderate rain (10 to 50mm) in northeastern Spain improved conditions for filling winter grains, but mostly dry weather with scattered, light frost occurred over northern Spain. Light to moderate rain (10 to 27mm) in France benefited winter wheat entering heading. Light rain (less than 10mm) fell in East Germany and western Poland, but heavier showers (25 to 100mm) fell to the west from Belgium to northern Italy and to the south in southeastern Poland, benefiting winter wheat in the jointing to heading stage of development.



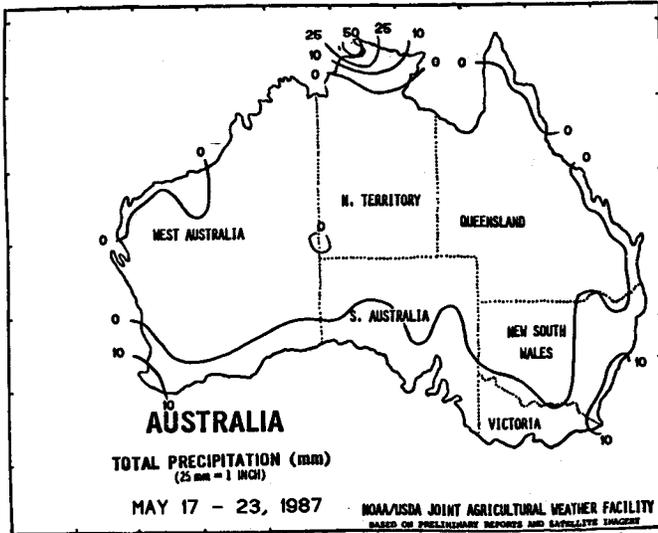
SOUTH ASIA ... Showers (10 to 52mm) lingered in the grain areas of northern Pakistan and northern India, where recent weeks of heavy rain damaged unharvested grain. Dry weather along India's east coast favored summer rice harvesting. Moderate showers (10 to 61mm) in southern India, from western Tamil Nadu to Maharashtra, improved preplanting moisture levels for rainfed summer crops. Cotton and groundnut plantings normally begin in June, just prior to the normal onset of the southwest monsoon. Autumn and winter harvested rice planting is likely underway in parts of southern and eastern India in response to the beneficial premonsoon showers.



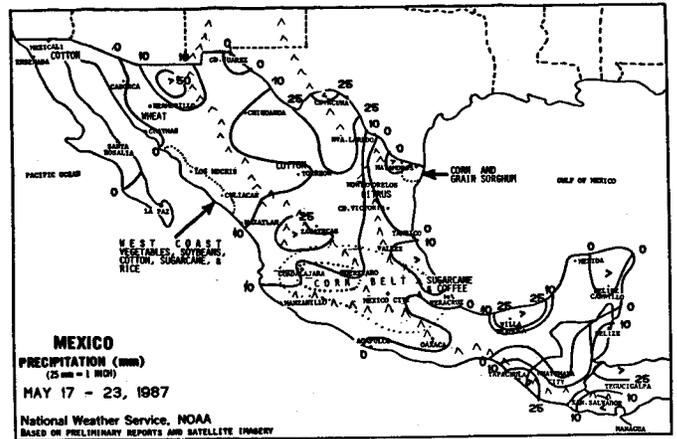
EASTERN ASIA ... Widespread light showers (10 to 25mm) covered the Manchurian Valley, increasing topsoil moisture for summer crop emergence and early growth. Significant rain (25 to 50mm) covered northern Shanxi and northern Hebei, benefiting winter wheat in the grain formation to filling stages. Unfavorable dry weather continued over Shandong, northern Henan, and southern Hebei, stressing nonirrigated winter wheat in the filling stage and cotton and early corn in the vegetative stage. Further south, dry weather spread westward from Jiangsu, through Anhui and southern Henan, into Hubei. Adequate soil moisture likely met crop-moisture requirements in these areas. Moderate to heavy rain fell over early rice in southern China. Rainfall generally ranged from 50 to 150mm, but inundative rain (200 to 300) covered Guangdong.



SOUTHEAST ASIA ... Pockets of dry weather occurred in rainfed crop areas of Thailand's Northeast, Khorat Plateau, and Northern Plains regions, where corn and rice are in the vegetative stage of development. Light to moderate rain (10 to 40mm) maintained beneficial moisture levels in Thailand's northern hills and in the eastern half of Thailand's corn region. In the Philippines, pockets of heavy showers (25 to 63mm) improved moisture levels in rainfed grain areas of Luzon and Mindanao. Corn and rice plantings, normally underway by April in many areas, were delayed by persistent dry weather and are likely just beginning in some areas. Light to moderate showers covered Malaysia and western Indonesia, with mostly dry weather from Java eastward.



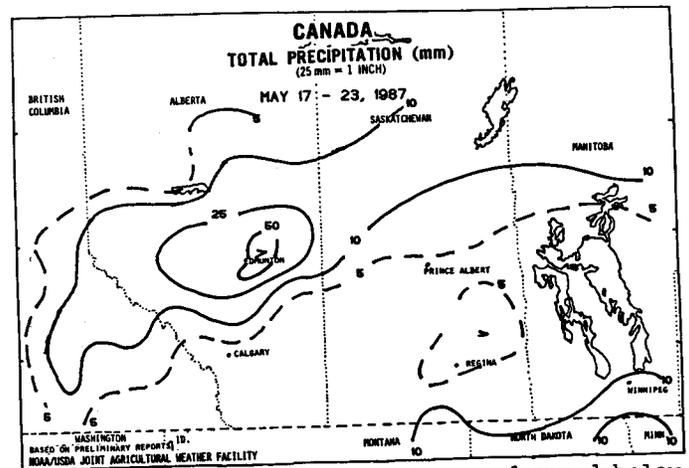
AUSTRALIA ... Mostly dry weather throughout Australia's winter grain belt prompted an increase in the planting pace of winter wheat. Moisture reserves in most areas continued favorable for emergence and early vegetative growth of recently planted grains. Below normal rainfall since February in most grain areas of Queensland, however, has depleted moisture reserves. Winter wheat planting normally lasts through June. Minimal rain (less than 8mm) covered sugarcane areas along Queensland's coast. Rainfall averaged about 10mm along the coast of New South Wales, where recent weeks of heavy rain had likely caused some flooding.



MEXICO ... Showers (10 to 40mm) covered much of north-central Mexico extending into the northern portion of the Southern Plateau corn belt. Periodic rain has benefited northern cotton and rangeland growth. Some light rain (mostly less than 10mm) helped corn planting and establishment in the Southern Plateau. Showers along the east coast coffee and sugarcane area favored crop development. Seasonable dry weather continued along the west coast farming region. Mostly dry weather favored late wheat harvesting in the northwest, except along the western edge of the mountains where an isolated heavy shower (72mm) slowed fieldwork.



SOUTH AMERICA ... Wet weather continued to hamper agricultural activities in southern Brazil. Substantial rainfall (40 to 128mm) covered Parana, Santa Catarina, and Rio Grande do Sul. Brazil's soybean harvest advanced about 5 percentage points from the previous week to over 92 percent complete. Harvest progress ranges from about 87 percent in Rio Grande do Sul to 99 percent in Mato Grosso do Sul. Early coffee harvesting has also been delayed in Parana due to recent heavy rains (about 100mm last week). In Argentina, rain (25 to 75mm) covered much of the northeast extending into sorghum and corn areas of Cordoba and Santa Fe. Rainfall diminished in the soybean area with mostly dry weather prevailing in Buenos Aires. The soybean harvest jumped over 20 percentage points last week to nearly 50 percent complete. A light frost covered the region late in the week.



CANADA ... Minimum temperatures dropped below freezing (-2 to -8 degrees C) in the western Prairies grain belt during midweek, following a prolonged period of unseasonable warm weather. Substantial snow fell in Alberta's northern grain area near Edmonton, providing a protective cover from the frost. Light rainfall (5mm or less) covered much of the remainder of the grain belt, except east-central Saskatchewan and southeastern Manitoba where 10 to 20mm of rain fell. The effect of the subfreezing temperatures in the west will depend on snow cover and emergence progress. Spring grain planting was nearly complete across the Prairie Provinces, well ahead of average. Early planted crops had already emerged. The light precipitation helped crop establishment somewhat, but topsoil moisture has declined to a generally fair condition in the Prairies. The colder weather slowed evapotranspiration rates.

ANNUAL RAINFALL INDEX FOR THE WESTERN SUBSAHARA

Figure 1

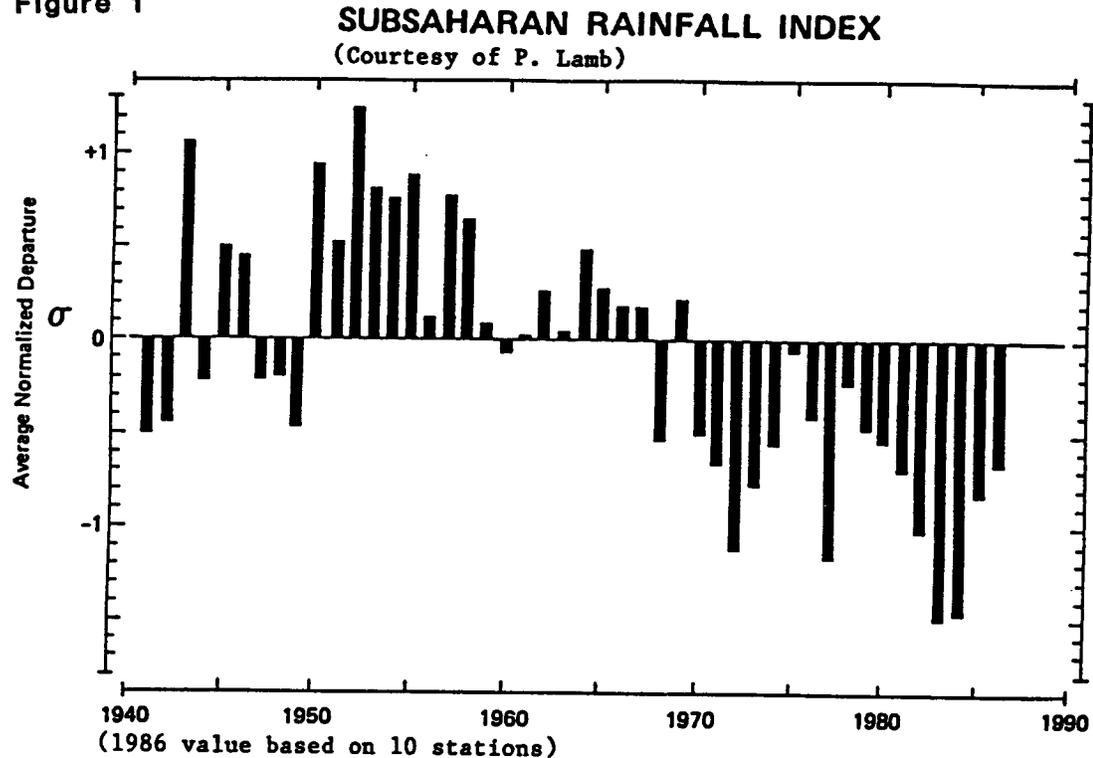
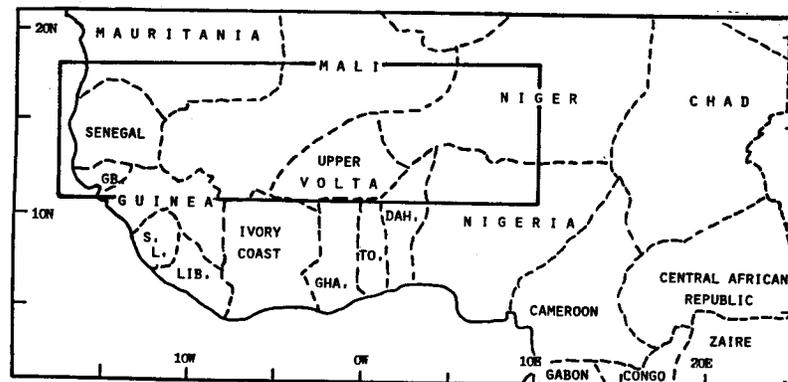


Figure 2



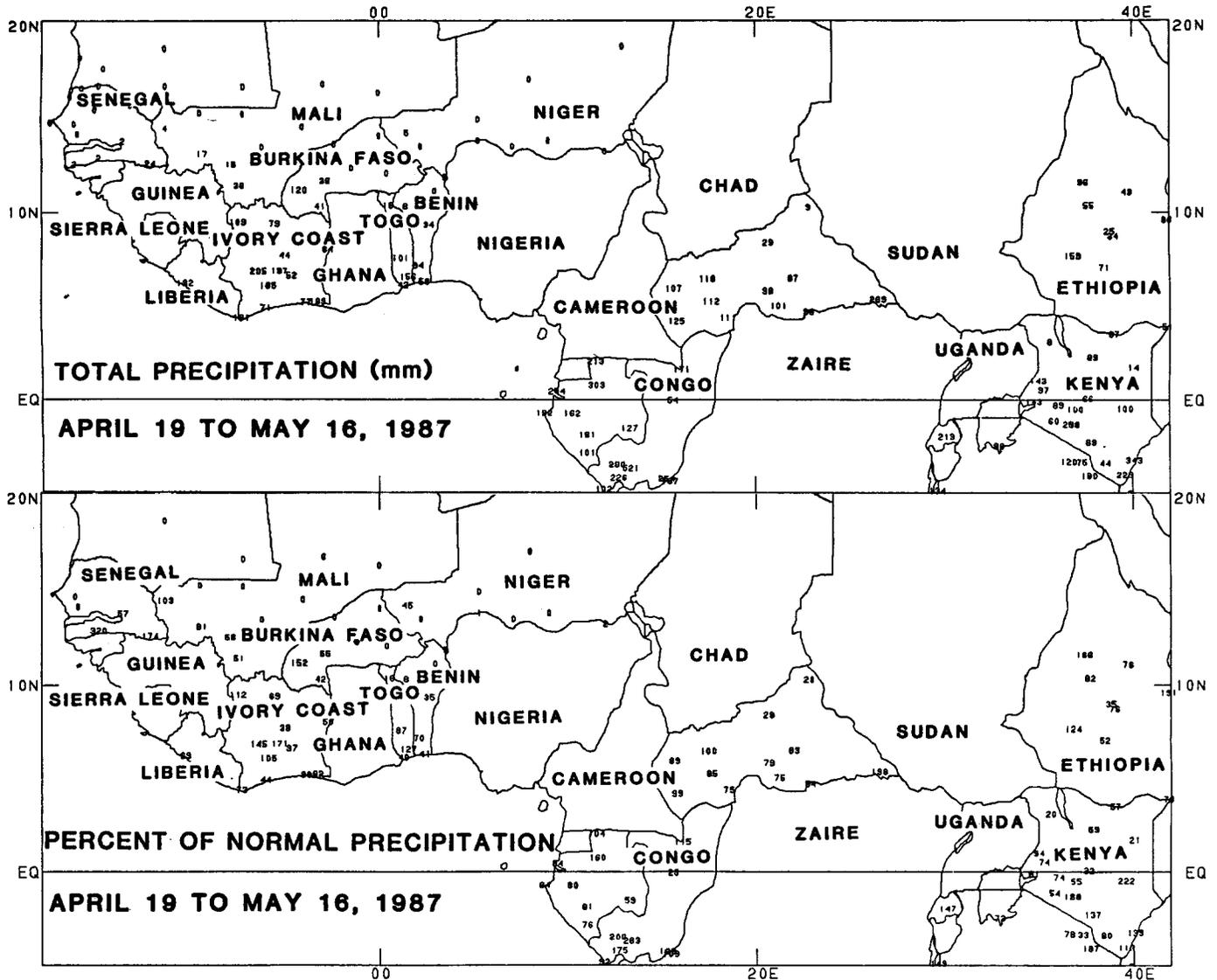
A rainfall index (fig. 1), developed by Lamb (1986), indicates departures from long-term normals since 1941 for stations in Sub-Saharan West Africa. The index uses the monthly average precipitation for up to 20 stations that lie between 11-18°N west of 10°E (fig. 2). Figure 1 shows a rather dramatic trend in precipitation data over this 47-year period. The fifties stand out as a comparatively wet decade without any significantly dry years. During the sixties the rainfall index trended more toward normal, although still slightly positive until 1968, the first

unseasonable dry year in 20 years. That year marked the beginning of the prolonged drought period, which continued into the eighties. The rainfall index continued to decline in the early eighties, reflecting the devastating effect of this persistent drought cycle in Sub-Saharan Africa.

REFERENCE

Lamb, P.J., R.A. Pepler, and S. Hastenrath. "Interannual variability in the tropical Atlantic," *Nature*. Vol. 322, 238-240, July 1986.

AFRICAN AGRICULTURAL WEATHER SUMMARY



In western Africa, the wet season is normally beginning to push northward into the Sahelian zone during May. In April, rainfall is generally confined to the south coastal region where rice, corn, and sorghum plantings occur. Near-normal rainfall during April was generally restricted to coastal areas from Sierra Leone to Benin. In the Cote d'Ivoire, seasonal rains fell in the southwest, but below-average rainfall occurred throughout the eastern half of the country and extended eastward through interior Togo and Benin. Significant showers reached as far north as western Burkina Faso and extreme southern Senegal in recent weeks. In the Sahel, the planting season normally begins in June,

coinciding with the normal progression of the Intertropical Convergence Zone (ITCZ).

In eastern Africa, below-normal rainfall covered western Kenya and Tanzania's Lake Victoria region, where corn is advancing through early stages of growth. Following abundant preplanting showers, moisture is adequate for the crop's normal development. Additional rainfall, however, will be needed prior to reproduction, which normally takes place by mid-June. Near- to above-normal rainfall in Ethiopia benefited reproductive early-season crops. Planting of Ethiopia's main season crop normally begins by mid-June, coinciding with the seasonal increase in rainfall.

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