

WEEKLY WEATHER AND CROP BULLETIN

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June 23, 1987

National Weather Summary

June 14 to 20, 1987

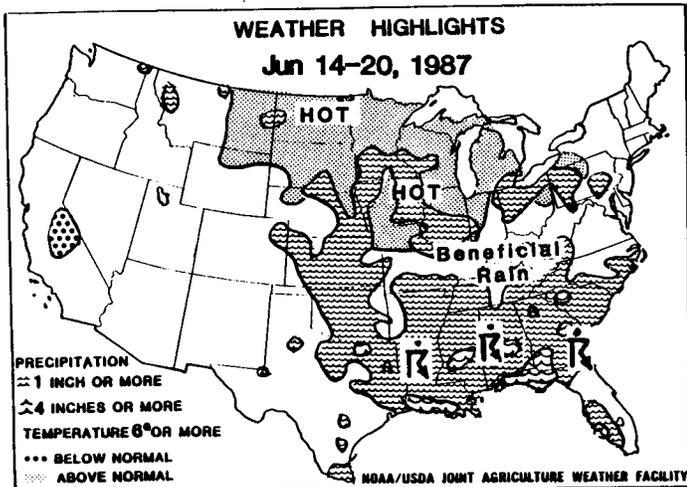
TUESDAY... Showers and thunderstorms moved across the northern Plains and southern Canada. Moderate showers reached through central Nebraska. Thunderstorms also covered the area from eastern Texas to Missouri and eastward to Florida and the Mid-Atlantic States. Afternoon temperatures were cooler in most of the Corn Belt but exceeded 95 degrees from eastern Nebraska into Canada.

WEDNESDAY... Thunderstorms again covered the South and along a line from north-central Texas through eastern Nebraska and to the upper Mississippi Valley. Showers were also scattered through the central and northern Rockies. Temperatures were cooler across the Midwest.

THURSDAY... Moisture from the Gulf of Mexico continued to trigger widespread showers and thunderstorms across the South. Thunderstorms were also frequent in the central Plains and Rockies and the northern Rockies and High Plains. Cooler weather in most of the Nation lowered moisture demand.

FRIDAY... Widespread showers and thunderstorms covered the area from northern Texas to southern Wisconsin and eastward to the Appalachians and across the South and Southeast. Lighter showers remained in the northern Rockies and High Plains and extended into Canada.

SATURDAY... Thunderstorms covered a large area from the central and northern Plains to southern New England and the East Coast. Showers spread over the Northwest and through southern Canada. Mild but very humid weather covered most of the Nation.

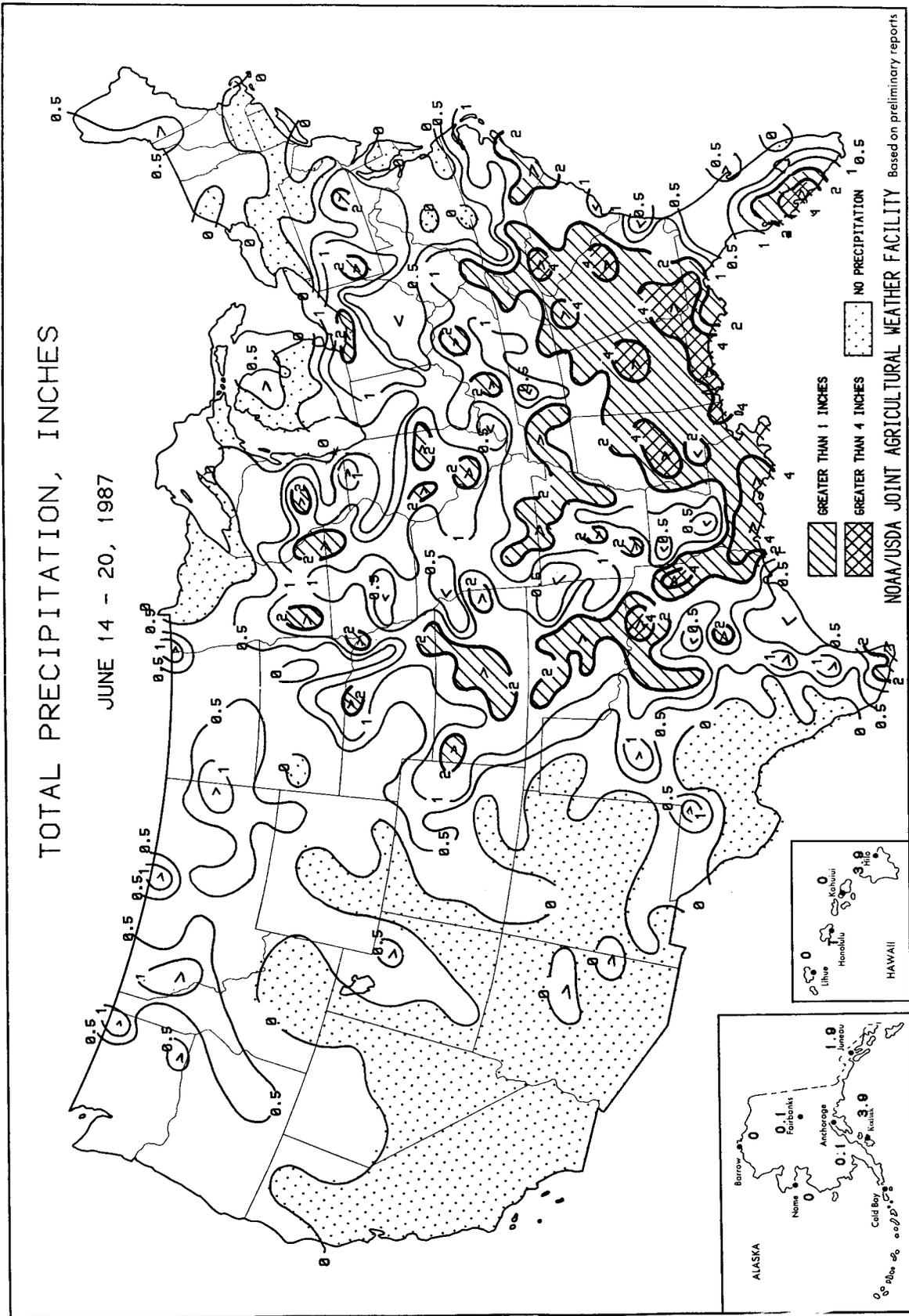


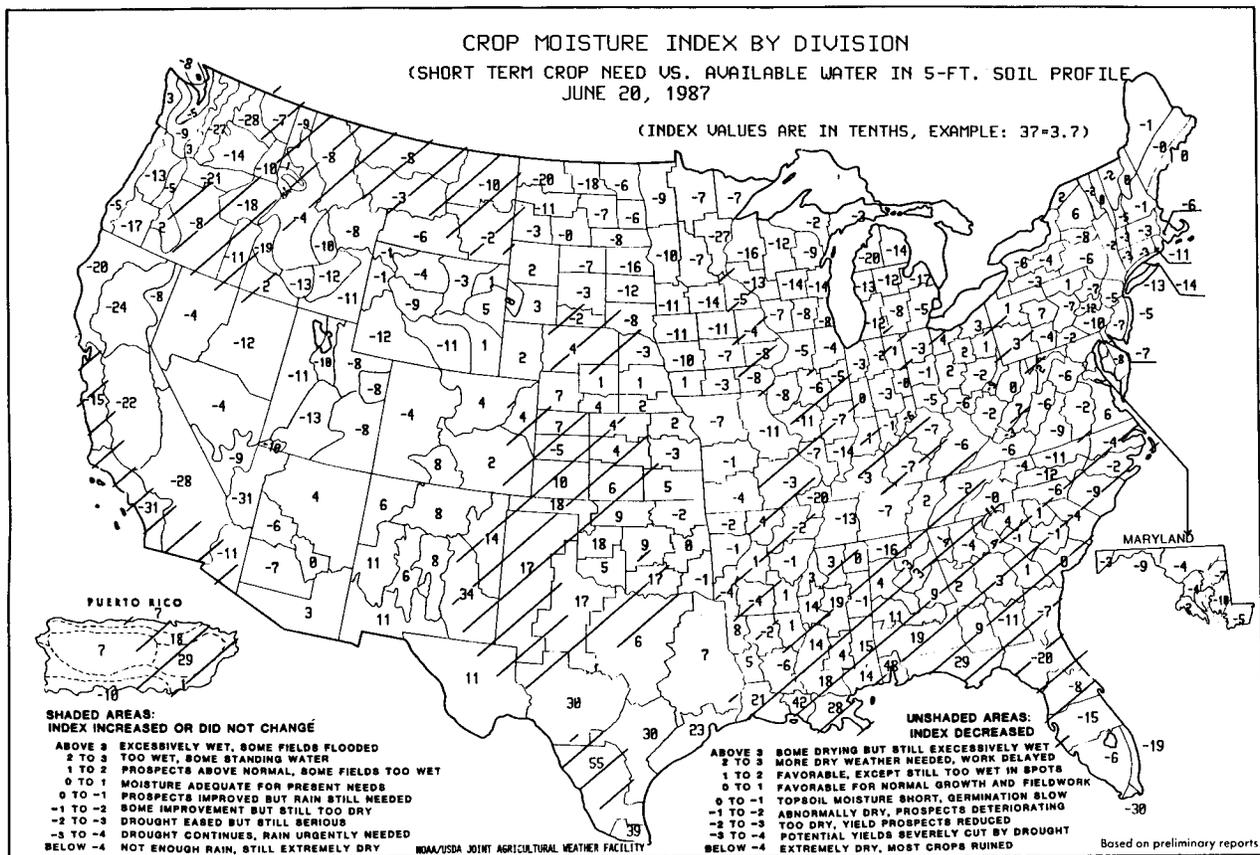
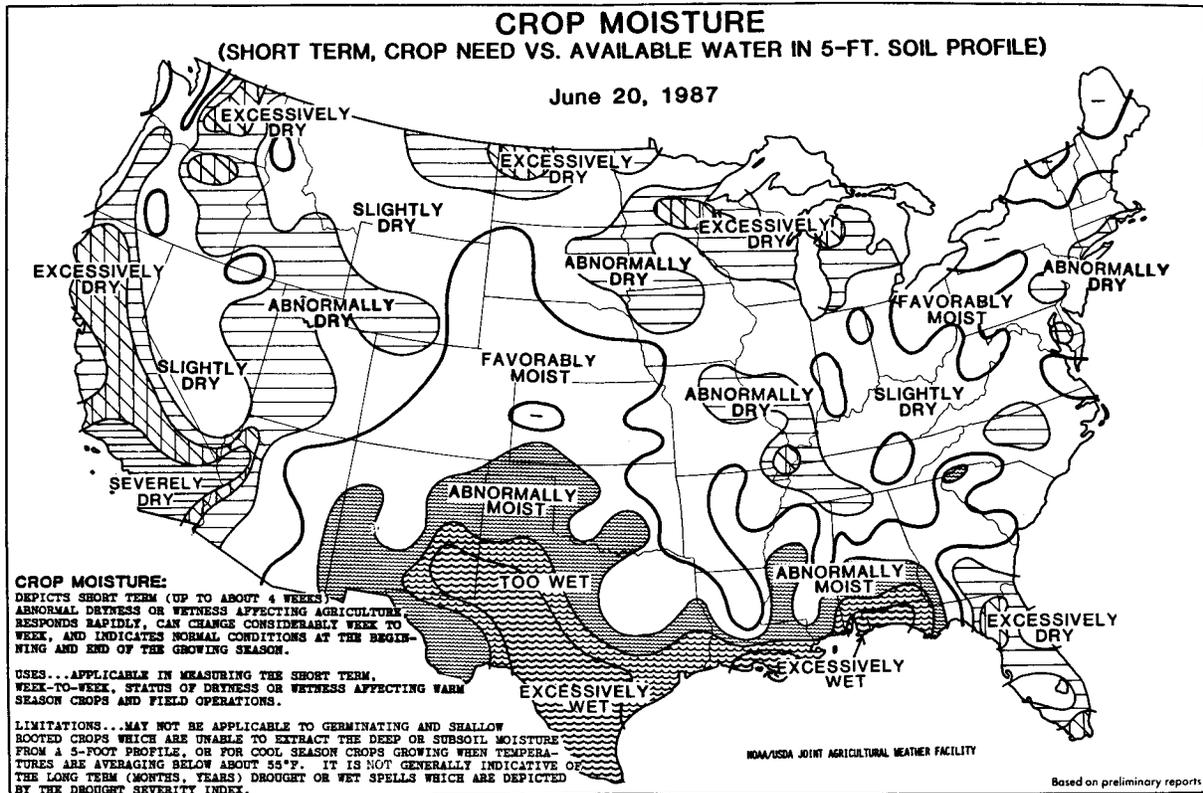
HIGHLIGHTS: Moisture from the Gulf of Mexico flowed northward into the area east of the Rocky Mountains triggering widespread thunderstorms. Fortunately, the part of this area with the least rain from thunderstorms was in western Texas where rivers were already running full. Much of the Corn Belt received beneficial rain, but some areas had little or none. Heavy thunderstorms and severe weather wreaked havoc across the South and Southeast. Showers also covered the Northwest and spread over the northern Great Plains and into Canada. Maximum temperatures were unusually warm early in the week but cooled by week's end. High temperatures exceeded 95 degrees from the central Plains to the lower Great Lakes and northward into Canada.

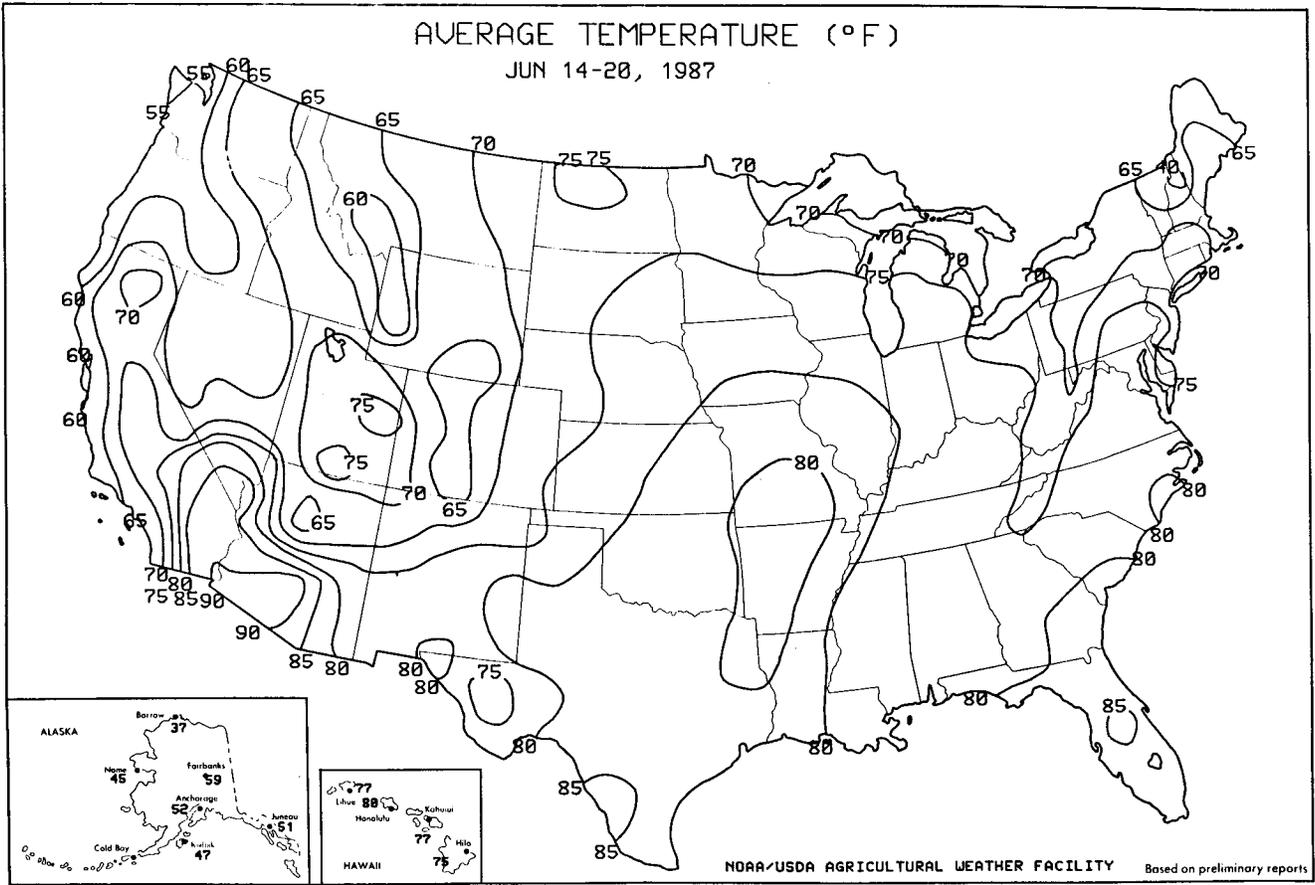
SUNDAY... Heavy thundershowers covered the southern tip of Texas, but most of the State remained dry. Widely scattered showers reached from parts of eastern Texas through the lower Mississippi Valley, but heavier showers and more numerous thunderstorms covered most of the Southeast. Afternoon temperatures were above 95 degrees from the central Great Plains through the western Corn Belt and western Great Lakes.

MONDAY... Thunderstorms were widely scattered in eastern and western Texas. They were more widespread and heavier across the South, the Tennessee Valley, and the Ohio Valley. Showers covered the Northwest, and heavy thunderstorms and high winds were reported in the northern Rockies. Temperatures were cooler near the Great Lakes but still exceeded 95 degrees in the central Plains.

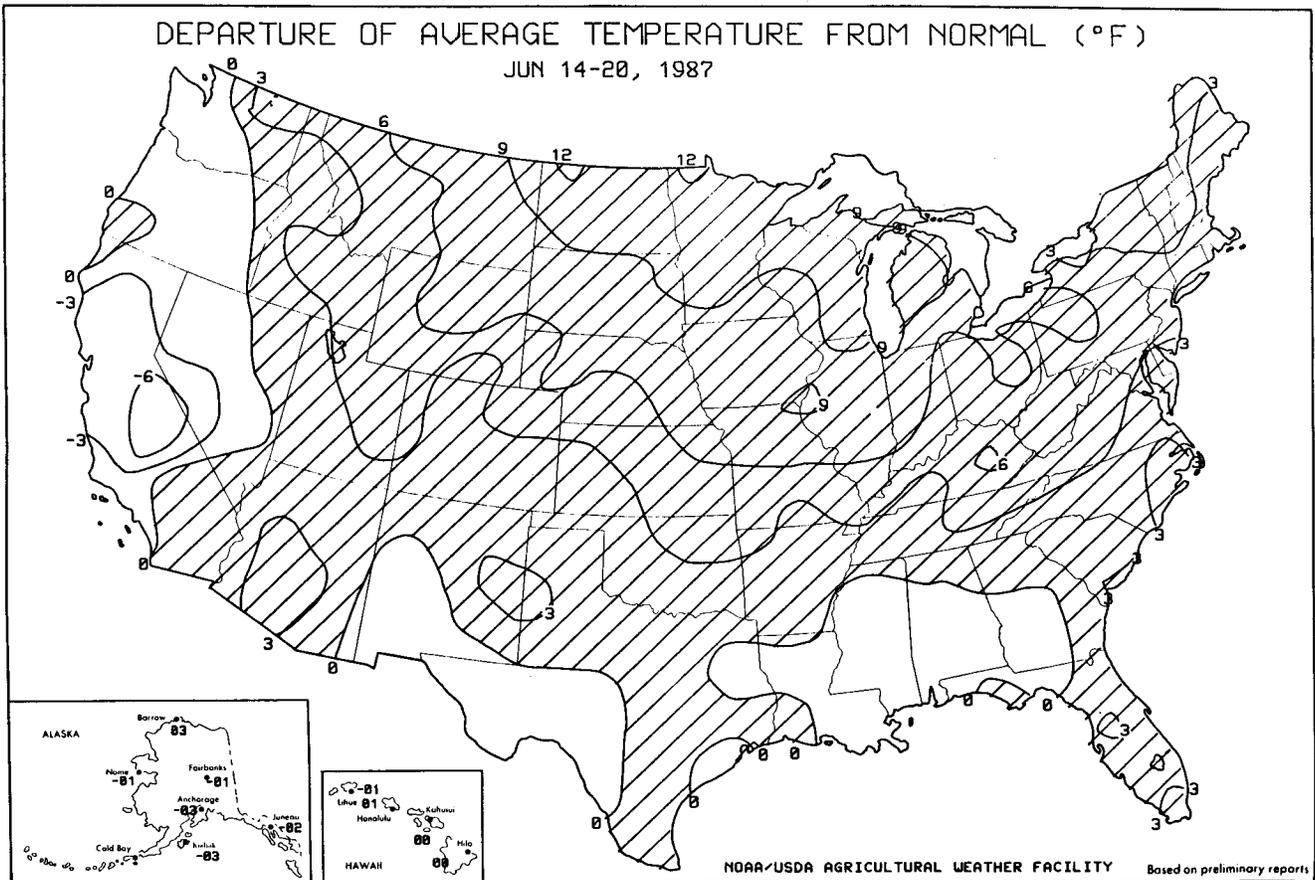
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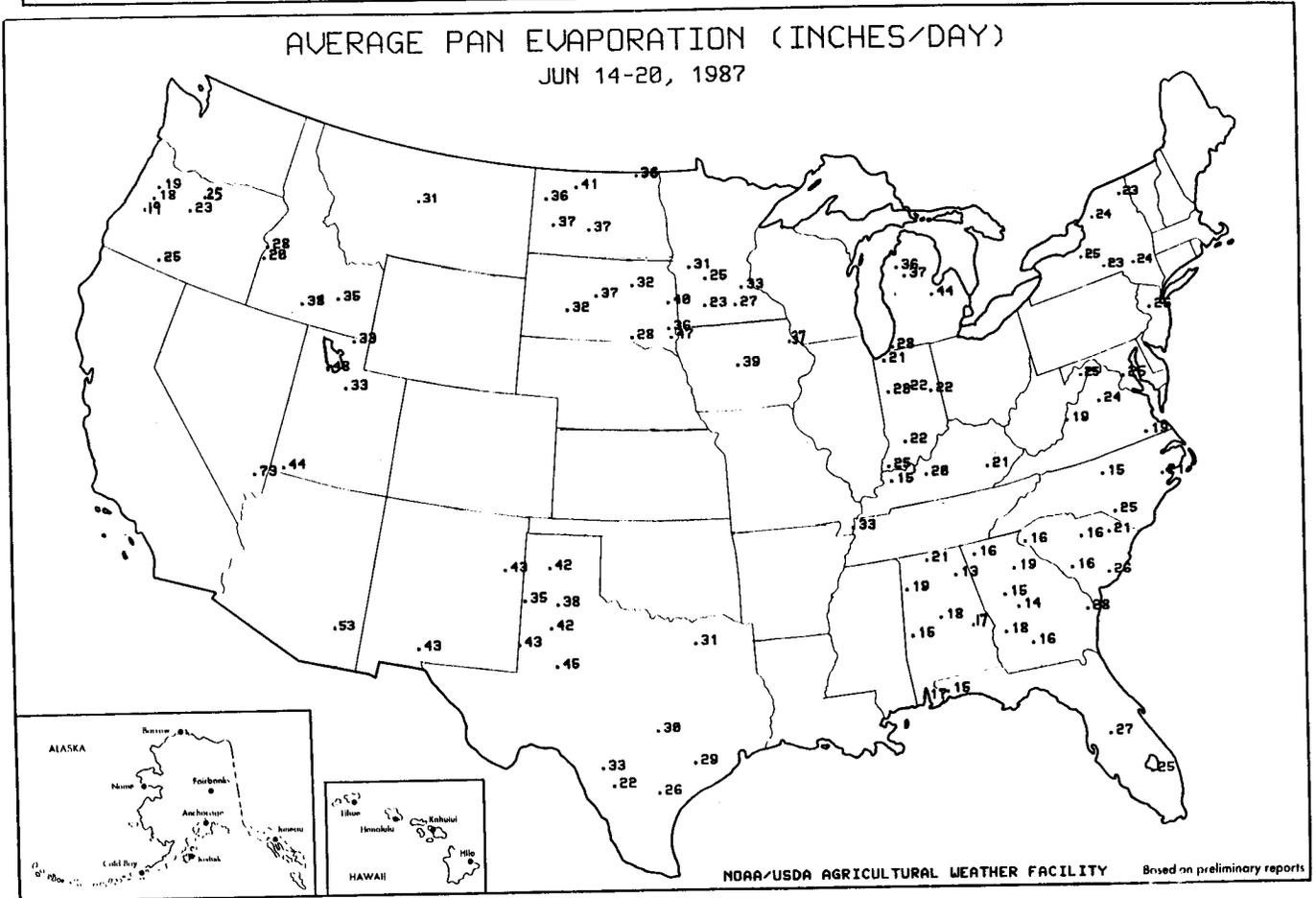
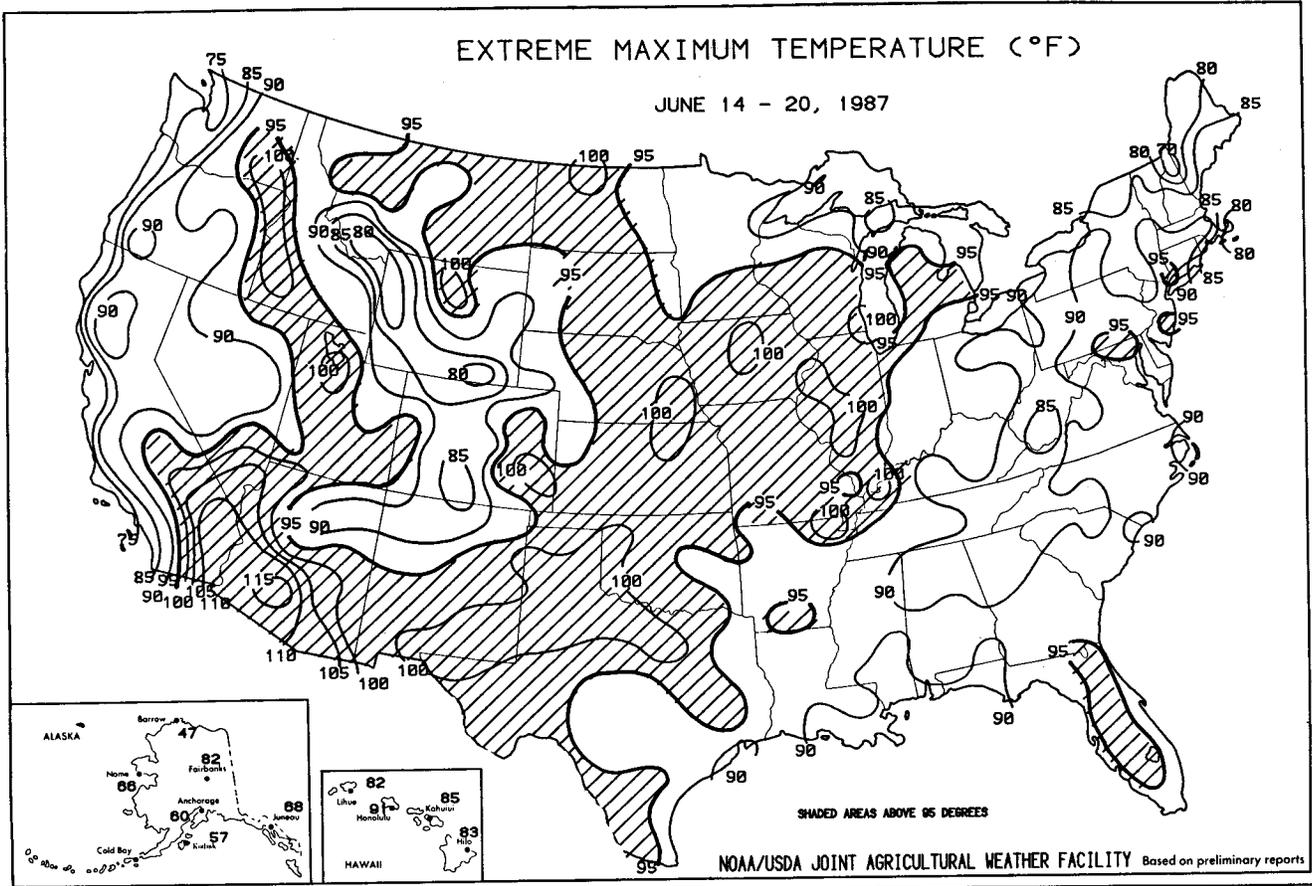


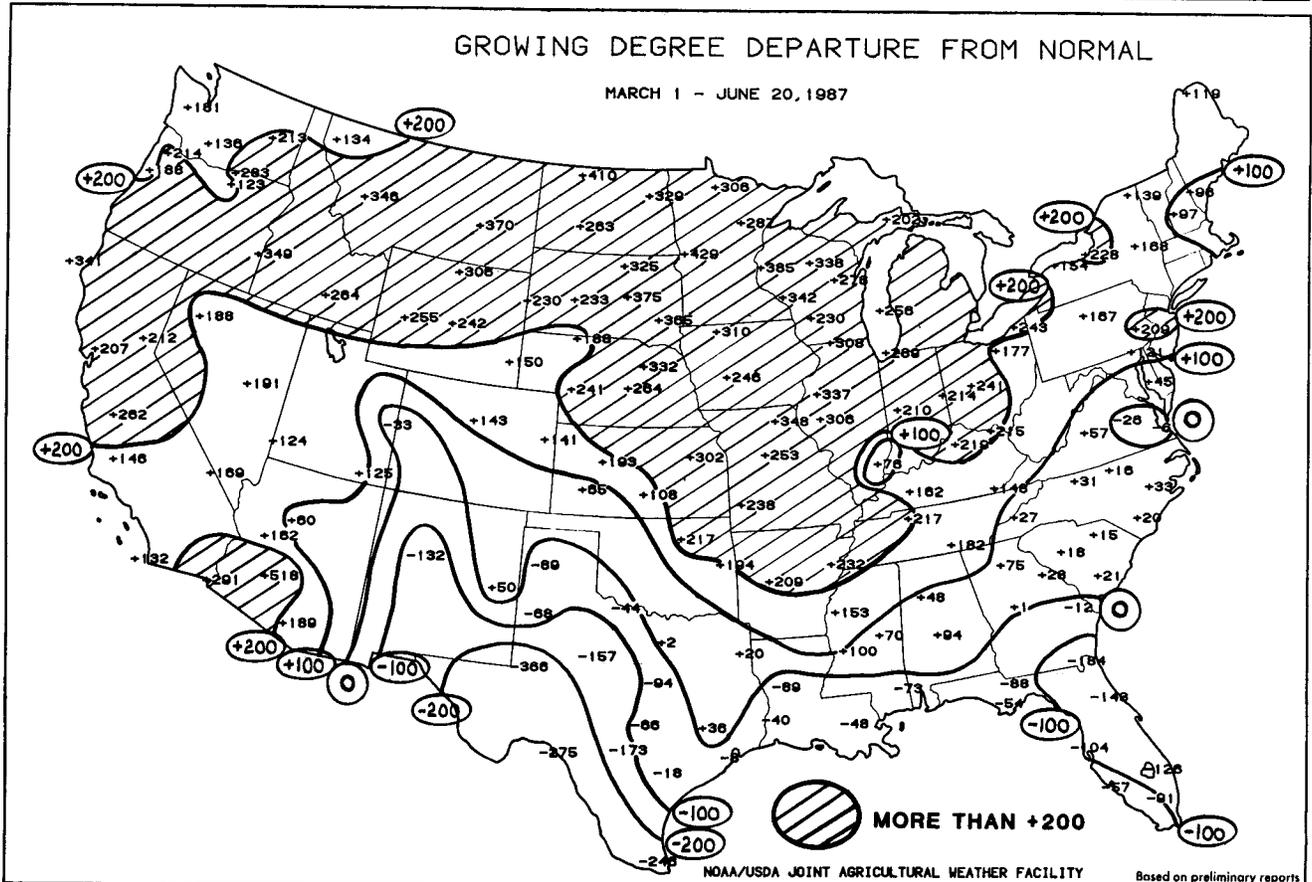
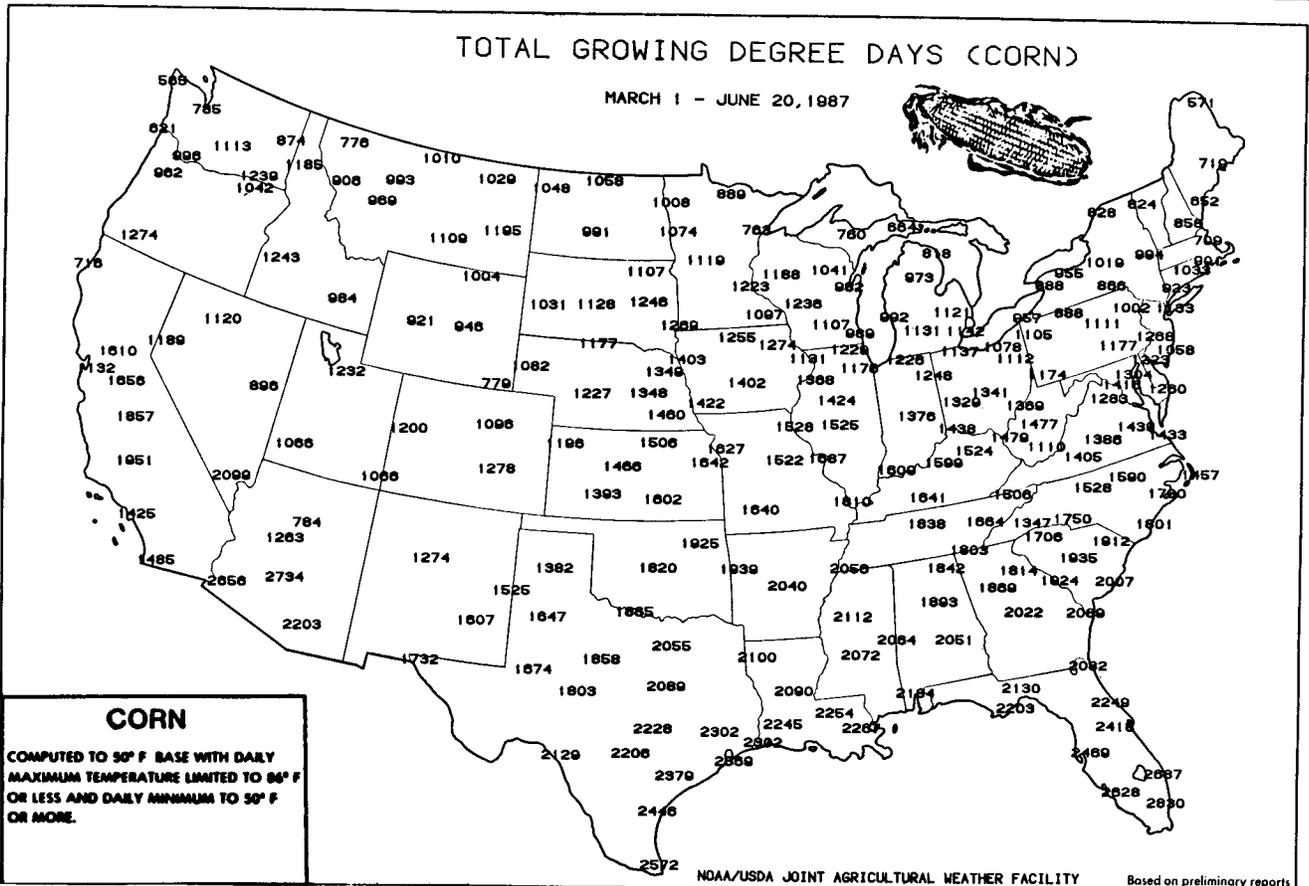




Point values may differ on these computerized maps from the reported values in the tables.





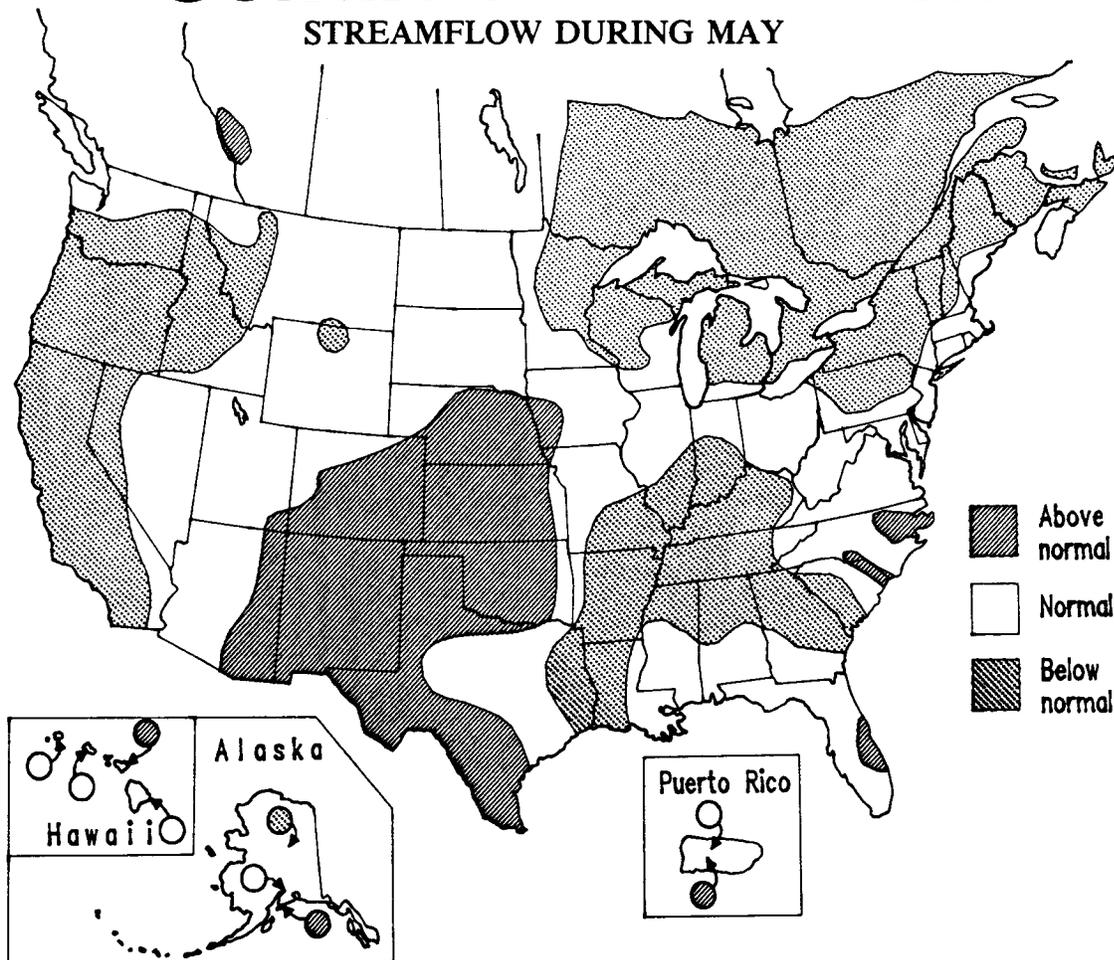


National Water Conditions

UNITED STATES
Department of the Interior
Geological Survey

CANADA
Department of the Environment
Water Resources Branch

MAY 1987

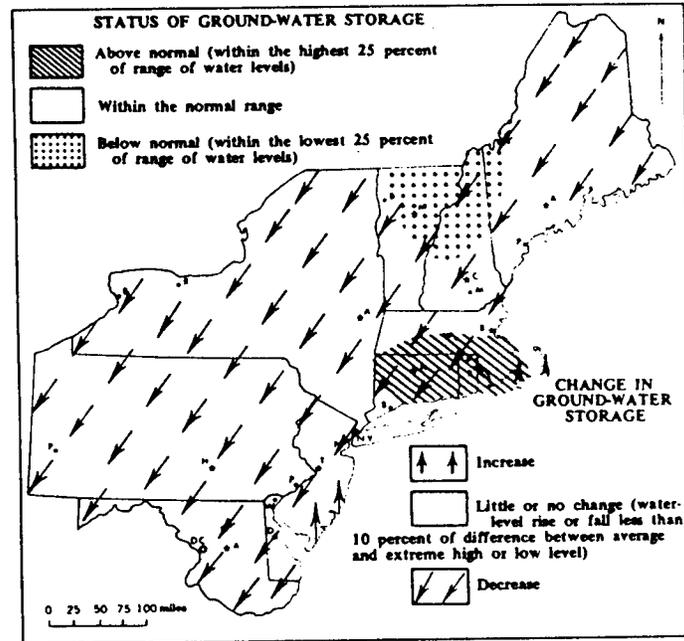


Heavy rains near the end of May caused record flooding in parts of Iowa, Oklahoma, and Texas which continued into June in some areas. Three people drowned during the floods, two in Oklahoma and one in Texas. No damage estimates were available. The worst flooding in Iowa was in the Nishnabotna River basin in the southwestern part of the State where about 1,100 people were evacuated from Red Oak. The main east-west line of the Burlington Railroad (also used by Amtrak) was closed by flooding near Emerson, and the Governor of Iowa declared Mills, Montgomery, Fremont, and Page Counties disaster areas. In Oklahoma, 10 to 13 inches of rain fell May 26-28, causing severe flooding in the central and western parts of the State. Record peaks were set at nine gaging stations, and the 100-year flood record was exceeded at four of those stations. Several bridges were washed out, and State highways were closed by floodwaters. The floods in Texas began after rains of 5 to 8 inches in 24 hours fell in some areas at monthend and continued into June. A pipeline ruptured during the

flooding, spilling an unknown volume of crude oil into the Red River.

In contrast, streamflow was in the normal to above-normal range at only about 58 percent of the 191 reporting index stations in southern Canada, the United States, and Puerto Rico, after generally decreasing in most of southern Canada and the United States. This was about the same percentage of stations with flow in the normal to above-normal range as in May 1986, but the combined flow of the 190 sites reporting data for both May 1986 and May 1987 was lower for the latter -- 2,372,340 cubic feet per second (cfs) versus 2,819,060 cfs. About 76 percent of stations had flow in the normal to above-normal range last month.

The combined flow of the three largest rivers in the lower 48 States--Mississippi, St. Lawrence, and Columbia--averaged a below-normal 1,255,600 cfs during May, 17.2 percent below the median and 10.1 percent below last month's flow.



Map showing ground-water storage near end of May and change in ground-water storage from end of April to end of May.

GROUND-WATER CONDITIONS DURING MAY 1987

Ground-water levels declined seasonally in nearly the entire Northeast. (See map.) Levels fell only slightly on Long Island, New York, and rose in southeastern Massachusetts and southern New Jersey. Water levels near the end of the month were generally within the normal range for the end of May. Exceptions were above-average levels in Rhode Island and adjacent parts of Connecticut and Massachusetts, including the highest level of record in 25 years at one key observation well in Cape Cod. Levels were below average in northern New Hampshire and Vermont, adjacent Maine, and eastern New York State. A few observation wells had their lowest May water levels in more than 20 years of record.

In the Southeast, ground-water levels rose in Louisiana, but declined seasonally in West Virginia, Kentucky, and North Carolina, and declined in most wells in Mississippi and Georgia. Net water-level changes were mixed in Virginia and Arkansas. Water levels were above long-term averages in Kentucky and North Carolina, below average in Arkansas, and mixed in West Virginia, Virginia, and Louisiana. New low-water levels for May were reached in Memphis, Tennessee, and Stuttgart, Arkansas. The new low in Stuttgart was the fifth consecutive low monthend level in this well.

In the central and western Great Lake States, ground-water levels declined seasonally in all reporting wells. Water levels were below average in Michigan, near or below average in Ohio, and below average in most wells in Iowa. Average levels were mixed in Minnesota.

National Weather Data for Selected Cities

Weather Data for the Week Ending June 20, 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 JUNE 6	PCT. NORMAL SINCE JUNE 6	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	
AL BIRMINGHAM	85	69	88	67	77	0	1.3	.5	.8	1.9	84	22.5	80	96	63	0	0	6	1	
MOBILE	85	72	90	70	79	-2	3.6	2.4	1.3	6.4	202	38.7	130	99	68	1	0	6	4	
MONTGOMERY	87	70	91	68	79	-1	4.7	3.9	1.9	5.9	266	33.2	132	100	65	2	0	7	3	
AK ANCHORAGE	57	46	60	42	52	-3	.1	-.2	0	.4	70	4.1	101	84	56	0	0	3	0	
BARRON	42	31	47	28	37	-2	T	T	T	T	21	.4	39	96	68	0	5	0	0	
FAIRBANKS	70	47	82	45	59	-1	.1	-.3	.1	.5	65	1.5	51	79	29	0	0	1	0	
JUNEAU	56	46	68	39	51	-2	1.9	1.2	1.0	4.3	223	18.8	99	92	68	0	0	6	1	
KODIAK	52	43	57	39	47	-3	3.9	2.9	2.3	7.9	280	37.1	140	96	73	0	0	6	0	
NOME	54	37	66	27	45	-1	T	T	T	T	56	2.8	77	86	53	0	0	2	2	
AZ PHOENIX	107	78	115	75	93	6	0	0	0	0	17	3.2	126	23	6	7	7	0	0	
PRESCOTT	89	53	95	48	71	4	0	0	0	0	194	4.9	79	32	8	2	7	0	0	
TUCSON	105	67	107	62	86	2	0	0	0	0	400	4.8	185	27	8	7	7	0	0	
YUMA	105	74	111	69	90	2	0	0	0	0	0	.4	49	36	11	7	7	0	0	
AR FORT SMITH	92	69	98	66	81	3	.3	-.5	.3	1.3	50	18.7	95	97	49	5	5	2	2	
LITTLE ROCK	90	70	93	68	80	1	1.2	.4	.4	2.3	90	19.6	76	87	61	3	3	4	0	
CA BAKERSFIELD	87	58	92	54	73	-6	0	0	0	.1	100	3.7	97	68	23	1	0	0	0	
BUREKA	61	53	67	52	57	2	.2	.1	.2	.2	43	17.6	80	88	71	0	0	2	0	
FRESNO	87	58	92	56	73	-3	0	0	0	0	14	6.6	95	73	26	1	0	0	0	
LOS ANGELES	70	57	72	55	63	-3	0	0	0	.1	0	2.9	35	93	64	0	0	0	0	
REDDING	86	59	93	53	72	-5	T	T	T	T	0	19.1	78	62	24	2	0	0	0	
SACRAMENTO	81	53	88	51	67	-4	0	0	0	0	0	8.8	83	87	32	0	0	0	0	
SAN DIEGO	70	61	71	59	66	-1	0	0	0	0	0	5.1	83	81	62	0	0	0	0	
SAN FRANCISCO	67	55	70	53	61	0	T	T	T	T	0	8.5	69	87	58	0	0	0	0	
CO DENVER	87	56	91	51	71	4	.2	-.1	.2	2.1	195	11.0	144	71	21	3	0	1	0	
GRAND JUNCTION	92	60	96	54	76	3	T	-.1	T	T	13	5.4	150	34	10	7	0	0	0	
PUEBLO	93	55	97	50	74	2	T	-.3	T	T	.5	68	5.3	122	76	18	6	0	0	
CT BRIDGEPORT	85	63	94	59	74	5	0	-.7	0	.9	48	16.9	88	81	40	1	0	0	0	
HARTFORD	87	57	92	50	72	3	0	-.8	0	2.6	114	21.2	103	88	34	2	0	0	0	
DC WASHINGTON	88	69	94	65	79	4	.2	-.6	.2	2.7	121	16.0	92	94	51	2	0	1	0	
FL APALACHICOLA	88	74	91	70	81	1	1.7	.6	1.4	2.3	79	25.3	124	95	66	2	0	4	1	
DAYTONA BEACH	90	72	93	70	81	2	.1	-1.5	0	1.8	42	21.5	118	97	57	4	0	2	0	
JACKSONVILLE	92	71	95	69	81	1	1.6	.3	1.0	2.0	53	19.7	94	97	52	6	0	4	1	
KEY WEST	89	82	90	81	85	2	T	-1.2	T	.1	1	13.8	105	84	66	1	0	1	0	
MIAMI	91	79	92	78	85	4	.1	-2.1	.1	.9	15	13.7	63	85	51	7	0	1	0	
ORLANDO	96	74	97	72	85	4	T	-1.7	T	.3	6	16.6	87	95	42	7	0	1	0	
TALLAHASSEE	87	69	92	69	78	-2	7.7	6.2	2.7	8.9	217	37.5	131	100	63	4	0	5	4	
TAMPA	93	75	95	74	84	3	1.2	-.1	1.0	1.6	47	21.6	127	93	47	7	0	3	1	
WEST PALM BEACH	89	76	90	72	83	2	T	-1.9	T	1.2	23	19.6	87	90	60	3	0	0	0	
GA ATLANTA	84	70	88	68	77	1	2.7	1.9	1.8	5.4	247	26.4	102	96	61	0	0	6	4	
AUGUSTA	88	71	92	70	79	2	3.0	2.1	.7	4.7	185	27.4	122	99	60	3	0	6	1	
MACON	87	71	91	69	79	0	2.7	1.8	1.3	3.1	129	24.8	105	100	65	2	0	5	2	
SAVANNAH	90	73	93	70	82	3	1.7	.3	.8	3.0	83	25.7	119	97	56	6	0	6	1	
HI HILO	81	69	83	68	75	0	3.9	2.6	1.0	8.7	216	51.9	82	95	69	0	0	7	3	
HONOLULU	88	73	91	72	80	2	T	-.1	T	.4	114	3.0	23	77	47	2	0	2	0	
KAHULUI	83	71	85	70	77	0	T	-.1	T	.1	56	12.3	108	86	56	0	0	0	0	
LIHUE	81	73	82	71	77	0	T	-.4	T	.2	21	11.0	51	85	63	0	0	0	0	
ID BOISE	83	54	101	47	69	2	.2	-.1	.1	.6	84	5.7	84	74	27	2	0	3	0	
LEWISTON	78	56	97	51	67	1	.1	-.3	0	.2	24	3.8	55	76	34	1	0	3	0	
POCATELLO	82	51	94	45	66	4	0	-.2	0	.6	76	5.6	95	74	24	2	0	0	0	
IL CHICAGO	91	64	99	59	78	9	.3	-.7	.3	1.9	67	10.7	70	89	37	4	0	1	0	
MOLINE	93	66	101	59	80	8	.2	-.8	.1	.4	15	9.7	59	86	38	5	0	2	0	
PEORIA	92	68	99	66	80	8	.5	-.4	.3	2.5	97	10.3	64	86	42	5	0	2	0	
QUINCY	92	70	97	66	81	8	.5	-.4	.5	2.0	74	10.7	63	89	41	5	0	2	0	
ROCKFORD	92	66	98	58	79	9	1.0	-.1	1.0	1.8	62	11.2	70	87	37	5	0	1	1	
SPRINGFIELD	94	69	100	66	82	8	1.0	.2	1.0	2.1	89	9.5	59	91	39	5	0	2	1	
IN EVANSVILLE	89	71	92	66	80	5	.5	-.3	.3	4.9	208	17.4	82	100	60	2	0	3	0	
FORT WAYNE	90	64	93	58	77	6	1.8	.9	1.7	3.9	159	13.4	82	88	40	5	0	2	1	
INDIANAPOLIS	90	67	93	61	78	6	.1	-.8	.1	2.3	90	11.5	62	95	48	5	0	2	0	
SOUTH BEND	91	66	95	61	79	9	.5	-.4	.5	1.9	76	13.0	77	84	36	6	0	1	1	
IA DES MOINES	91	70	100	68	81	9	.3	-.7	.2	.5	18	12.0	84	82	47	5	0	3	0	
SIoux CITY	90	67	99	65	79	7	1.2	.2	.6	1.3	49	12.7	109	82	43	4	0	3	2	
WATERLOO	90	66	99	58	78	8	1.7	.7	.9	1.9	67	10.3	71	82	42	5	0	4	1	
KS CONCORDIA	92	67	100	61	79	5	1.2	.2	.8	1.7	59	20.5	165	89	41	4	0	3	1	
DODGE CITY	90	62	96	58	76	1	2.1	1.4	1.2	2.9	143	12.7	134	91	38	4	0	2	2	
GOODLAND	89	60	94	56	74	4	3.6	3.0	1.2	4.0	216	11.8	155	88	33	4	0	5	3	
TOPEKA	92	70	98	67	81	7	.3	-.9	.2	2.6	77	18.7	127	95	48	5	0	2	0	
WICHITA	91	68	97	65	80	3	1.2	.2	.6	2.3	86	19.8	158	93	43	4	0	3	1	
KY BOWLING GREEN	87	68	88	63	77	2	2.1	1.0	1.2	2.6	86	18.5	73	98	57	0	0	4	1	
LEXINGTON	87	68	92	64	78	5	2.3	1.3	1.7	5.0	181	17.1	76	94	56	2	0	2	2	
LOUISVILLE	88	70	92	64	79	4	.5	-.4	.4	3.4	141	15.6	71	93	56	1	0	3	0	
LA ALEXANDRIA	89	72	91	69	80	-1	.3	-.6	.2	1.3	49	27.9	95	93	61	3	0	2	0	
BATON ROUGE	87	72	91	71	80	-1	2.0	1.3	.8	3.0	165	29.7	113	98	68	2	0	5	1	
LAKE CHARLES	89	73	93	70	81	1	4.2	3.3	3.0	8.3	303	29.3	126	97	61	3	0	5	2	
NEW ORLEANS	86	72	90	71	79	-1	3.4	2.3	1.3	11.9	405	38.2	140	99	69	2	0	6	3	

Based on 1951-80 normals.

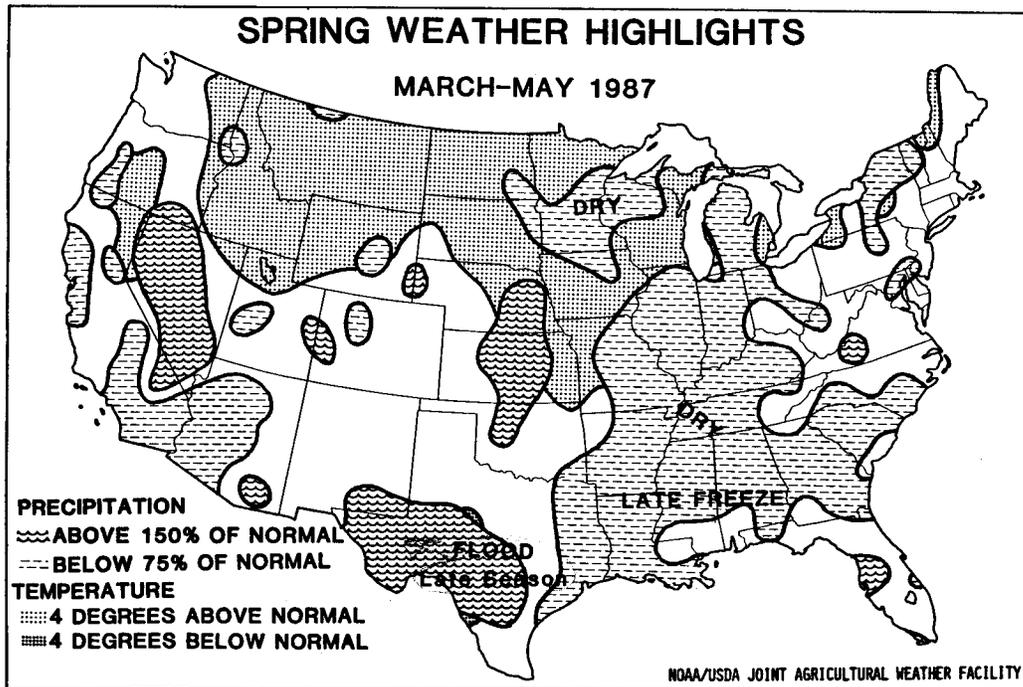
Weather Data for the Week Ending June 20, 1987

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 JUNE 6	PCT. NORMAL SINCE JUNE 6	TOTAL, IN., SINCE JAN. 1	PCT. NORMAL SINCE JAN. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	TEMPERATURE		PRECIPITATION	
																		°F	°F	.01 INCH OR MORE	.50 INCH OR MORE
ME SHREVEPORT	91	69	93	66	88	0	.4	-.4	.2	4.9	287	23.5	182	99	57	6	0	3	0	0	0
ME CARIBOU	72	81	79	74	82	1	1.1	-.3	.2	1.6	79	10.4	73	82	42	0	0	1	0	0	0
ME PORTLAND	81	62	85	47	68	1	1.1	-.3	.2	2.4	119	21.0	103	91	38	0	0	0	0	0	0
MD BALTIMORE	89	65	95	59	77	4	2	.3	.3	1.5	62	16.6	88	96	45	3	0	0	0	0	0
MD SALISBURY	86	63	91	53	74	2	1	-.8	.4	1.7	75	28.0	182	99	51	2	0	0	0	0	0
MA BOSTON	81	60	87	55	71	2	2	-.7	.4	2.1	104	25.6	122	84	38	0	0	0	0	0	0
MA CHATHAM	75	58	79	55	66	4	4	-.6	.5	24	26.8	122	91	66	0	0	0	0	0	0	0
MI ALPENA	84	55	94	50	69	7	1	-.7	.1	1.9	90	7.5	61	95	42	2	2	1	1	0	0
MI DETROIT	87	63	93	57	75	7	7	-.8	.4	3.2	142	12.9	91	81	36	3	0	2	2	0	0
MI FLINT	90	60	97	52	75	8	8	-.8	.7	3.3	7.9	60	94	37	4	0	0	0	0	0	0
MI GRAND RAPIDS	92	62	96	55	77	9	9	-.3	.3	.9	36	6.5	43	83	32	5	0	1	1	0	0
MI HOUGHTON LAKE	89	58	95	50	74	10	1	-.6	.1	.3	16	5.3	45	80	34	4	0	1	1	0	0
MI LANSING	91	60	97	51	75	8	0	-1.0	0	.8	29	6.0	45	85	34	4	0	0	0	0	0
MI MARQUETTE	84	54	90	47	69	8	0	-.8	.9	4.3	12.2	94	89	38	1	0	0	0	0	0	0
MI MUSKOGON	88	63	92	55	76	10	7	-.5	.7	4.1	9.8	71	86	39	2	0	0	1	0	0	0
MI SAULT ST. MARIE	79	52	86	46	66	7	0	-.8	1.8	81	8.7	66	92	46	0	0	0	0	0	0	0
MN ALEXANDRIA	87	63	92	60	75	9	9	-.1	.9	1.2	44	7.9	75	82	36	1	0	0	0	0	0
MN DULUTH	83	56	87	47	69	10	0	-.9	.7	2.7	6.4	55	86	35	0	0	0	0	0	0	0
MN INT'L FALLS	86	54	92	46	78	8	0	-.9	.8	3.5	5.8	64	85	33	1	0	0	0	0	0	0
MN MINNEAPOLIS	88	67	98	64	78	9	6	-.6	.6	1.1	39	4.5	40	83	36	5	0	2	1	1	0
MN ROCHESTER	86	63	97	57	75	7	2.7	1.8	1.5	3.1	123	8.3	71	88	48	1	0	4	2	2	1
MS GREENWOOD	88	71	92	68	79	-1	1.3	.6	.9	2.9	133	25.5	89	97	63	3	0	5	7	2	2
MS JACKSON	89	71	91	67	80	0	4.6	3.9	3.1	5.0	245	31.6	115	98	60	3	0	0	0	0	0
MS MERIDIAN	87	70	89	68	78	0	3.1	2.3	1.0	4.8	218	35.5	127	94	62	0	0	0	0	0	0
MO CAPE GIRARDEAU	90	71	94	70	81	7	1.3	.5	.8	2.2	93	14.3	63	96	53	4	0	3	3	1	1
MO COLUMBIA	92	69	99	66	81	7	1.0	.2	1.0	1.8	70	11.2	63	92	48	5	0	2	1	1	0
MO KANSAS CITY	91	72	96	67	82	6	.2	-.9	.1	2.5	81	15.4	96	91	52	5	0	3	3	1	1
MO SAINT LOUIS	92	72	97	71	82	7	1.6	.7	1.1	2.9	119	12.2	73	89	47	5	0	3	3	1	1
MO SPRINGFIELD	91	66	96	63	78	4	2.2	1.1	1.9	2.7	85	21.5	115	97	46	4	0	3	3	1	1
MT BILLINGS	86	56	98	49	71	7	.7	.2	.5	.8	55	6.9	82	79	27	2	0	4	0	0	0
MT GLASGOW	87	58	98	52	73	8	.3	-.3	.3	.8	48	4.5	91	71	27	3	0	1	0	0	0
MT GREAT FALLS	82	53	98	48	67	5	.2	-.4	.1	1.1	54	6.4	75	80	27	1	0	4	0	0	0
MT HAVRE	83	54	97	44	69	5	1.3	.8	1.3	1.3	88	4.0	68	75	36	2	0	1	1	1	0
MT HELENA	80	51	96	43	65	5	1.0	.5	.7	1.4	101	5.3	89	87	30	1	0	3	1	1	0
MT KALISPELL	77	47	93	34	62	4	.7	.2	.4	1.2	75	7.4	94	93	32	1	0	5	0	3	1
MT MILES CITY	90	59	97	53	74	7	.8	.1	.7	.8	41	6.0	82	72	21	4	0	3	1	1	0
MT MISSOULA	76	49	98	43	63	3	1.3	.8	.7	1.4	108	5.0	73	91	41	2	0	5	1	1	0
NE GRAND ISLAND	91	64	99	60	78	6	.7	-.2	.7	1.1	42	14.8	127	91	37	3	0	1	1	1	0
NE LINCOLN	93	68	104	62	80	7	1.5	.6	1.0	2.9	110	16.3	126	86	43	4	0	2	2	0	0
NE NORFOLK	90	65	97	63	77	6	.2	-.8	.2	.4	14	15.0	129	89	43	4	0	2	2	0	0
NE NORTH PLATTE	88	60	95	56	74	5	.3	-.6	.1	2.6	102	10.2	105	94	42	2	0	3	0	0	0
NE OMAHA	89	69	97	66	79	6	.3	-.7	.3	1.3	45	14.8	109	81	60	4	0	2	0	0	0
NE SCOTTSBLUFF	87	57	93	53	72	4	.1	-.6	.1	3.1	153	14.6	185	86	28	1	0	3	0	3	1
NE VALENTINE	89	62	98	57	76	7	1.2	-.6	.7	1.9	97	10.2	123	83	35	3	0	3	1	1	0
NV ELY	83	40	89	34	62	2	0	-.2	0	.1	11	5.0	104	54	14	0	0	0	0	0	0
NV LAS VEGAS	100	73	108	68	86	2	0	0	.1	650	3.3	191	24	8	7	0	0	0	0	0	0
NV RENO	79	47	88	40	63	0	.4	.4	.3	.9	364	5.8	136	73	20	0	0	2	0	0	0
NV WINNEMUCA	81	44	94	38	63	-1	1.1	-.2	.1	.4	60	6.7	151	79	19	1	0	1	0	0	0
NH CONCORD	83	51	87	45	67	2	1.1	-.6	1.1	2.0	101	14.2	88	94	29	0	0	1	0	0	0
NJ ATLANTIC CITY	88	60	97	49	74	4	1	-.6	.9	.9	51	20.9	111	97	37	2	0	1	0	0	0
NM ALBUQUERQUE	92	59	93	56	76	0	0	-.1	.1	.1	37	3.0	127	43	14	7	0	0	0	0	0
NM CLOVIS	94	66	99	64	80	5	0	-.6	.2	2.1	121	7.3	122	81	23	7	0	0	0	0	0
NM ROSWELL	97	63	101	60	80	1	1	-.2	.1	3.1	517	7.3	252	72	19	7	0	0	0	0	0
NY ALBANY	85	56	92	49	70	3	.2	-.6	.2	1.9	85	14.2	89	97	38	1	0	1	0	0	0
NY BINGHAMTON	81	58	87	51	70	5	7	-.8	.7	1.8	76	12.9	79	84	39	0	0	0	0	0	0
NY BUFFALO	82	60	88	56	71	4	0	-.6	.2	2.2	119	14.3	89	86	37	0	0	0	0	0	0
NY NEW YORK	89	69	95	64	79	7	7	-.7	.7	1.1	55	17.7	91	82	43	3	0	1	0	0	0
NY ROCHESTER	83	56	90	48	69	2	0	-.7	.0	1.4	76	10.8	76	90	34	1	0	0	0	0	0
NY SYRACUSE	85	55	91	50	70	3	0	-.9	.0	1.6	68	11.8	69	92	34	1	0	0	5	1	1
NC ASHEVILLE	83	64	86	61	73	3	2.8	2.0	2.0	7.5	299	25.6	121	100	61	0	0	5	5	1	1
NC CHARLOTTE	87	70	89	69	79	3	2.4	1.6	1.9	2.9	123	20.1	93	97	53	0	0	5	5	1	1
NC GREENSBORO	85	69	90	67	77	3	.3	-.6	.3	.9	33	23.2	117	98	59	1	0	2	0	0	0
NC HATTERAS	82	72	86	69	77	3	1.6	.6	.9	2.4	87	32.6	143	99	77	0	0	4	1	1	0
NC NEW BERN	88	73	92	71	81	4	1.4	.2	1.2	4.3	132	25.2	113	93	59	3	0	2	1	1	0
NC RALEIGH	86	69	90	66	77	3	.5	-.4	.3	.7	28	21.5	110	97	61	1	0	2	0	0	0

Weather Data for the Week Ending June 20, 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 JUNE 6	PCT. NORMAL SINCE JUNE 6	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	88	65	91	60	76	4	.4	-.5	.3	2.3	89	12.5	72	92	45	1	0	2	0
TOLEDO	89	60	93	52	74	5	2.0	1.2	2.0	3.3	145	11.6	79	95	37	4	0	1	1
YOUNGSTOWN	86	58	91	52	72	5	1.7	.9	1.7	3.9	171	15.1	88	98	46	1	0	1	1
OK OKLAHOMA CITY	92	70	98	66	81	3	1.8	.9	1.7	4.2	155	25.4	165	91	49	5	1	3	3
TULSA	93	72	96	67	82	4	.3	-.8	.3	1.5	47	21.5	115	85	47	6	0	2	2
OR ASTORIA	63	49	67	41	56	-1	.4	-.2	.4	.5	28	31.3	89	90	61	0	0	0	0
BURNS	70	43	87	37	56	-4	.9	-.7	.6	.9	167	6.0	99	***	***	0	0	0	0
MEDFORD	78	52	91	44	65	0	T	-.1	-.1	.1	24	8.0	80	83	34	2	1	5	1
PENDLETON	78	53	94	46	66	-1	.2	-.1	.1	.3	57	5.1	80	78	31	1	0	0	0
PORTLAND	74	52	83	49	63	1	.1	-.3	.1	.1	6	18.1	95	83	37	0	0	4	0
SALEM	73	47	84	42	60	-1	.2	-.1	.2	.2	26	19.2	91	83	37	0	0	1	0
PA ALLENTOWN	89	61	94	54	75	5	T	-.8	T	1.5	65	15.3	77	95	37	0	0	2	0
ERIE	81	63	87	57	72	6	T	-.9	T	2.4	93	13.5	81	87	34	2	0	0	0
HARRISBURG	88	64	94	57	76	4	2.3	1.4	2.3	3.0	120	16.3	88	89	42	3	0	0	0
PHILADELPHIA	89	66	94	58	77	5	T	-.9	T	1.0	38	14.7	78	86	41	2	0	1	1
PITTSBURGH	86	63	90	57	74	4	3.0	2.1	3.0	4.1	180	17.3	96	89	45	2	0	1	1
SCRANTON	85	58	89	51	71	6	4	-.8	T	1.0	44	12.1	79	88	38	0	0	0	0
RI PROVIDENCE	86	60	93	53	73	6	0	-.6	0	1.1	59	20.6	97	87	34	1	0	0	0
SC CHARLESTON	89	73	92	71	81	3	1.9	.3	.8	3.2	77	24.2	109	98	62	4	0	4	2
COLUMBIA	90	71	93	69	80	2	1.1	-.1	.5	3.5	121	24.1	101	96	55	4	0	6	1
FLORENCE	89	72	91	70	81	3	1.0	-.1	.7	2.8	94	19.5	96	95	54	4	0	2	1
GREENVILLE	86	69	88	67	77	2	4.3	3.2	3.0	5.7	199	26.3	102	100	63	0	0	6	1
SD ABERDEEN	90	58	96	51	74	7	2	-.7	.1	.4	19	5.7	66	91	30	3	0	0	0
HURON	92	61	98	55	76	8	0	-.8	0	.7	31	9.6	103	88	31	4	0	0	0
RAPID CITY	85	59	89	56	72	6	T	-.8	T	.8	37	7.1	81	80	40	0	0	0	0
SIOUX FALLS	89	63	95	55	76	7	.3	-.6	.3	.6	25	7.5	68	88	40	3	0	0	0
TN CHATTANOOGA	87	70	90	69	78	3	2.1	1.3	1.7	3.6	166	28.9	97	88	40	0	0	1	0
KNOXVILLE	87	68	89	67	78	3	1.4	.5	.8	2.0	78	21.1	86	100	65	1	0	4	1
MEMPHIS	89	72	92	70	80	1	1.0	-.2	.6	2.8	115	20.4	74	99	57	0	0	5	1
NASHVILLE	88	70	92	68	79	3	1.4	-.5	.4	1.5	60	14.5	57	92	58	1	0	2	1
TX ABILENE	94	69	97	68	82	1	.2	-.2	.2	.9	53	12.0	116	97	57	2	0	1	0
AMARILLO	91	63	100	61	77	2	T	-.8	T	1.5	62	9.3	116	85	38	7	0	2	0
AUSTIN	93	74	94	69	83	1	.6	-.1	.6	9.3	422	21.6	142	96	52	7	0	1	1
BEAUMONT	90	72	93	70	81	0	3.5	2.4	1.9	10.0	319	31.5	133	100	64	3	0	3	2
BROWNSVILLE	91	76	92	75	84	1	2.4	1.7	2.4	4.8	255	13.0	147	97	63	7	0	1	1
CORPUS CHRISTI	90	75	91	73	83	0	.1	-.8	.1	4.7	175	18.7	159	100	66	4	0	1	0
DEL RIO	93	74	95	70	84	-1	0	-.4	0	5.3	456	15.7	223	84	41	7	0	0	0
EL PASO	99	65	101	60	82	0	.2	.1	.2	1.7	669	3.3	188	51	11	7	0	0	0
FORT WORTH	93	71	97	67	82	0	1.0	.4	.4	3.4	200	16.0	100	92	48	7	0	5	0
GALVESTON	87	77	89	73	82	0	.2	-.6	.2	2.9	123	16.1	102	89	62	0	0	3	0
HOUSTON	93	73	96	70	83	2	1.9	.9	1.0	8.3	273	21.8	104	96	52	7	0	4	2
LUBBOCK	95	67	101	63	81	3	.5	-.2	.5	1.7	91	7.5	103	88	34	7	0	0	0
MIDLAND	95	66	98	64	80	0	T	-.3	T	1.3	131	9.3	178	88	34	7	0	2	0
SAN ANGELO	92	68	93	64	80	-2	T	-.4	T	1.8	132	21.2	272	94	45	7	0	0	0
SAN ANTONIO	93	75	94	70	84	1	T	-.7	T	7.6	353	28.8	219	94	48	7	0	0	0
VICTORIA	91	76	93	71	83	1	.2	-.9	.2	10.9	341	22.9	146	97	57	6	0	1	0
WACO	96	70	99	69	83	1	.3	-.2	.2	5.8	306	18.2	113	98	50	7	0	3	0
WICHITA FALLS	95	71	99	68	83	1	.8	-.1	.7	2.2	106	20.5	157	92	41	7	0	2	1
UT BLANDING	88	53	96	49	70	3	0	-.1	0	T	0	5.0	108	39	16	1	0	0	0
CEDAR CITY	87	51	94	44	69	2	T	-.1	T	T	8	4.8	105	38	9	1	0	0	0
SALT LAKE CITY	88	59	100	55	73	5	T	-.2	T	.2	26	7.8	90	60	18	3	0	1	0
VT BURLINGTON	80	53	85	48	66	1	.1	-.7	.1	3.6	149	11.4	82	94	37	0	0	1	0
VA NORFOLK	88	69	94	64	78	3	0	-.8	0	2.4	106	24.2	124	97	52	2	0	0	0
RICHMOND	89	65	94	60	77	3	T	-.8	T	4.5	200	24.6	132	97	50	2	0	1	0
ROANOKE	89	66	92	63	78	5	T	-.8	T	.3	15	27.6	149	96	44	5	0	1	0
WA COLVILLE	78	52	94	43	65	4	1.4	1.1	1.0	1.9	177	10.2	119	77	43	1	0	4	1
QUILLAYUTE	63	44	68	36	53	-3	.5	-.1	.5	1.3	66	52.4	99	96	56	0	0	1	0
SEATTLE-TACOMA	71	49	79	46	60	-1	.1	-.2	.1	.1	11	18.7	100	98	44	0	0	1	0
SPOKANE	76	51	94	45	64	1	.3	0	.2	.6	63	7.1	82	98	38	0	0	2	0
YAKIMA	80	49	93	40	64	0	T	-.1	T	T	8	3.8	94	71	25	1	0	2	0
WV BECKLEY	82	61	83	59	71	5	1.9	.9	1.8	4.0	155	22.9	114	97	56	0	0	2	1
CHARLESTON	86	64	89	62	75	4	.9	.2	.9	3.2	154	17.6	89	100	59	0	0	3	1
HUNTINGTON	87	66	90	63	76	4	.6	-.2	.4	2.1	97	18.8	96	99	59	1	0	2	0
PARKERSBURG	88	66	90	62	77	5	.1	-.8	.1	1.5	60	12.0	65	99	52	2	0	1	0
WI GREEN BAY	88	63	97	55	76	10	T	-.7	T	.4	18	7.7	64	86	41	4	0	0	0
LACROSSE	90	65	98	57	77	8	.2	-.8	.1	.7	26	11.2	86	93	43	5	0	0	0
MADISON	91	61	95	51	76	9	.2	-.7	.2	.6	25	10.2	78	88	36	5	0	3	0
MILWAUKEE	89	66	101	62	77	12	T	-.9	T	.1	6	12.3	89	81	39	3	0	0	0
WAUSAU	88	63	97	56	76	11	.1	-.8	.1	1.0	39	6.9	53	86	36	4	0	2	0
WY CASPER	88	50	93	44	69	6	.2	-.1	.2	.5	60	6.6	102	83	15	2	0	2	0
CHEYENNE	80	52	85	49	66	4	.1	-.4	.1	.9	64	8.2	121	80	26	0	0	1	0
LANDER	85	53	89	47	69	6	T	-.3	T	.9	80	9.4	115	64	16	0	0	0	0
SHERIDAN	85	51	92	45	68	6	.1	-.5	.1	1.1	68	6.8	79	86	28	1	0	1	0
PR SAN JUAN	86	75	88	73	81	-1	1.2	.1	.5	2.6	80	32.0	160	95	78	0	0	7	0

Based on 1951-80 normals.



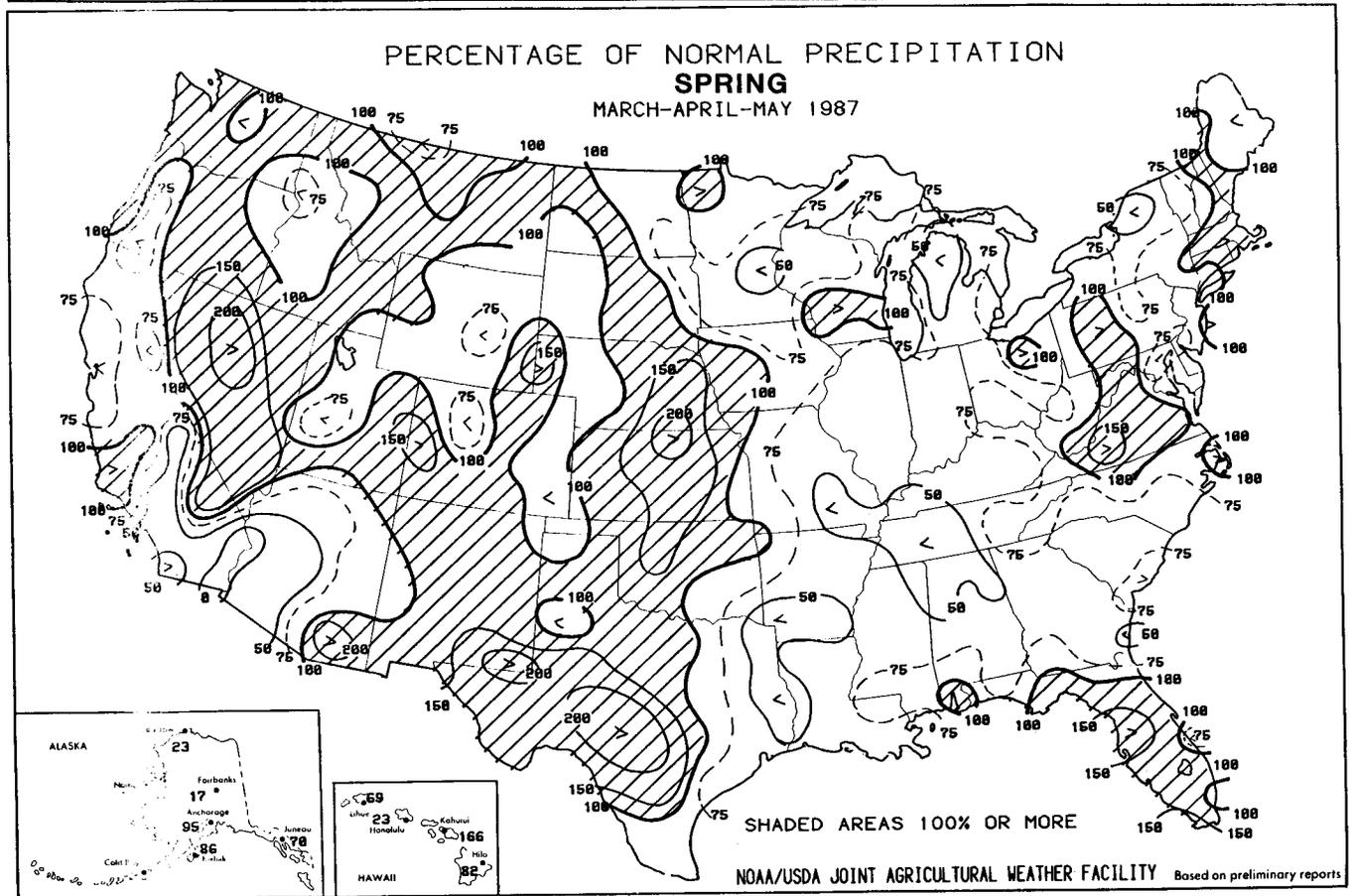
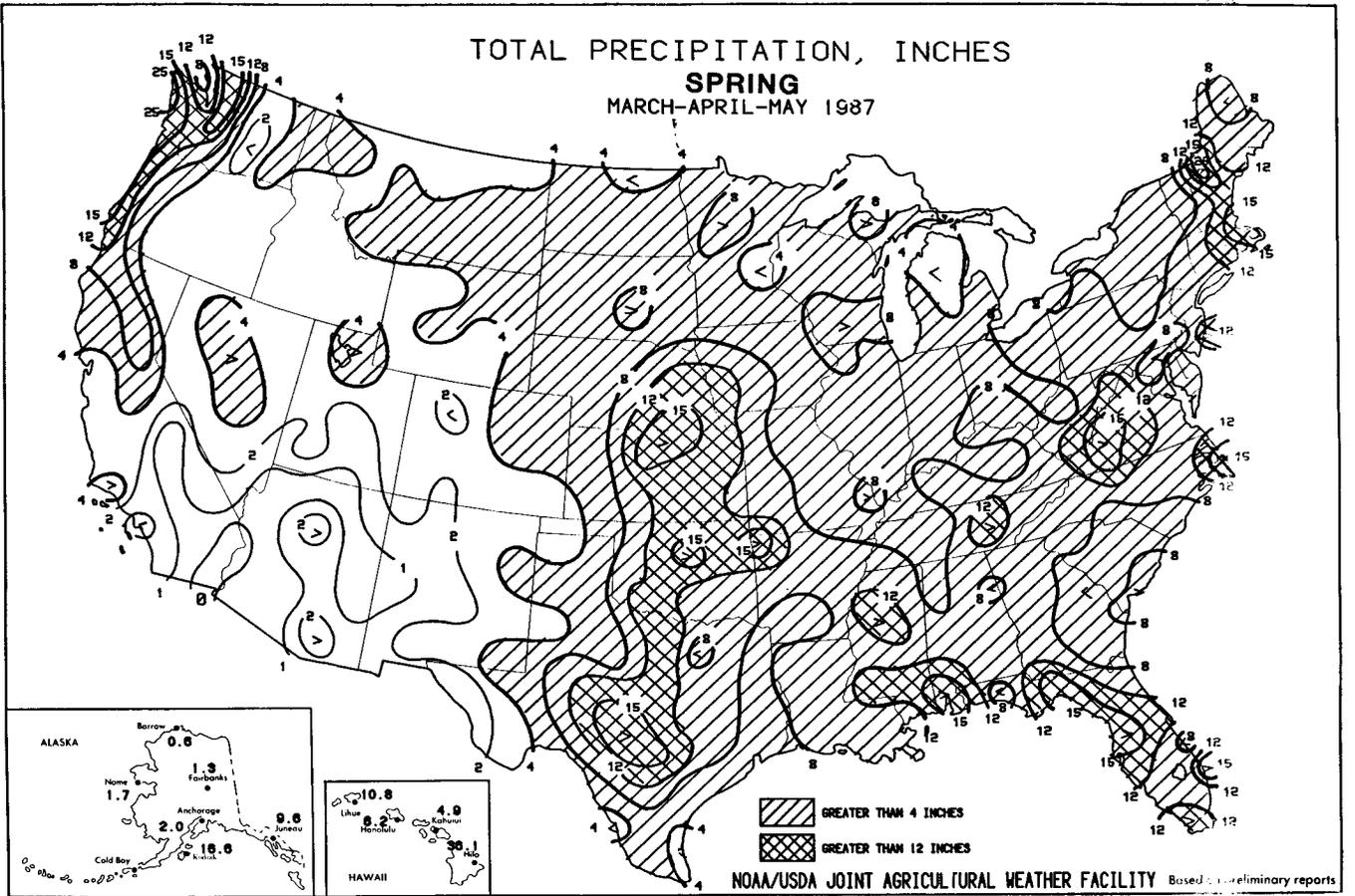
Spring Weather Review

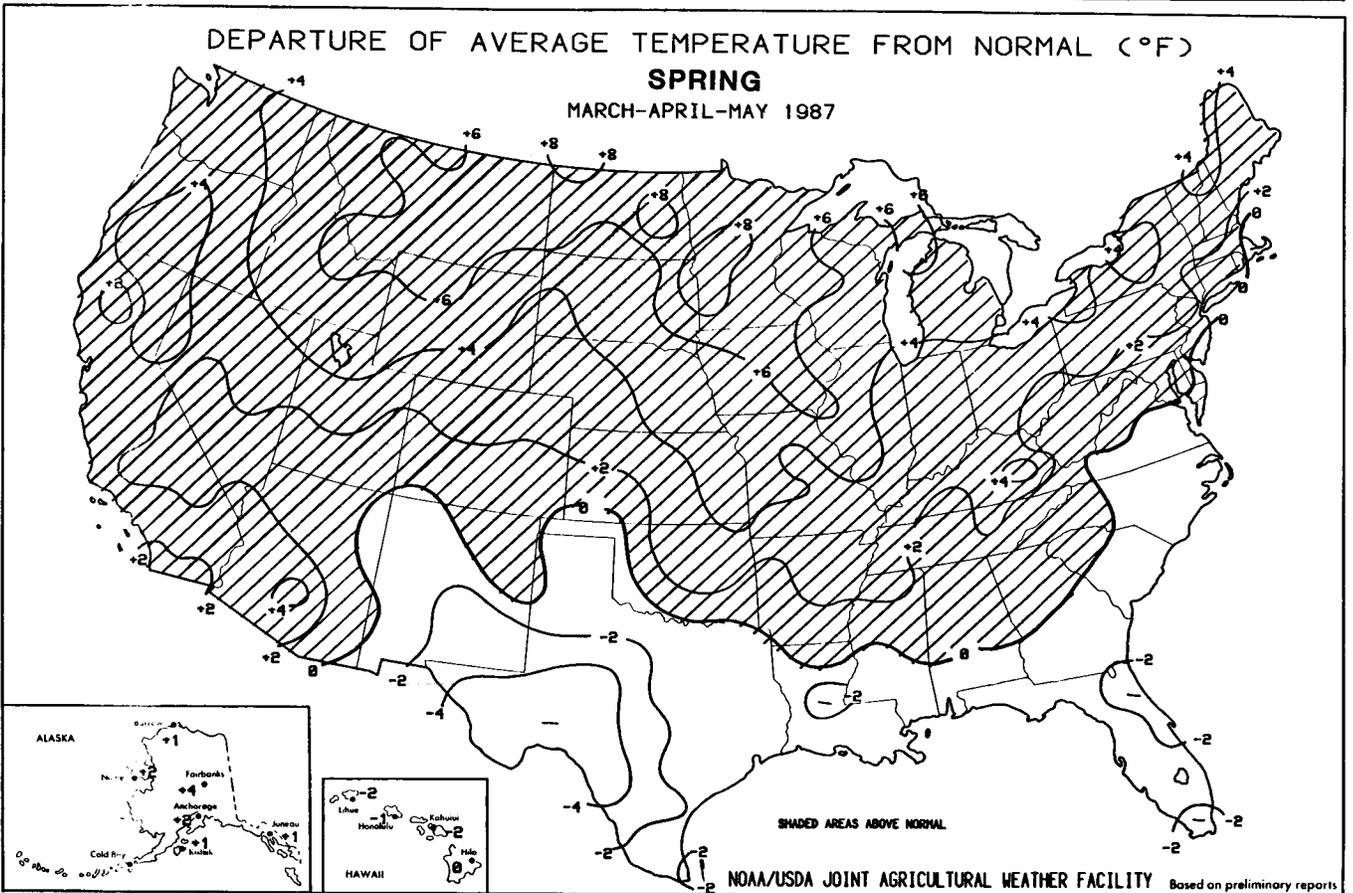
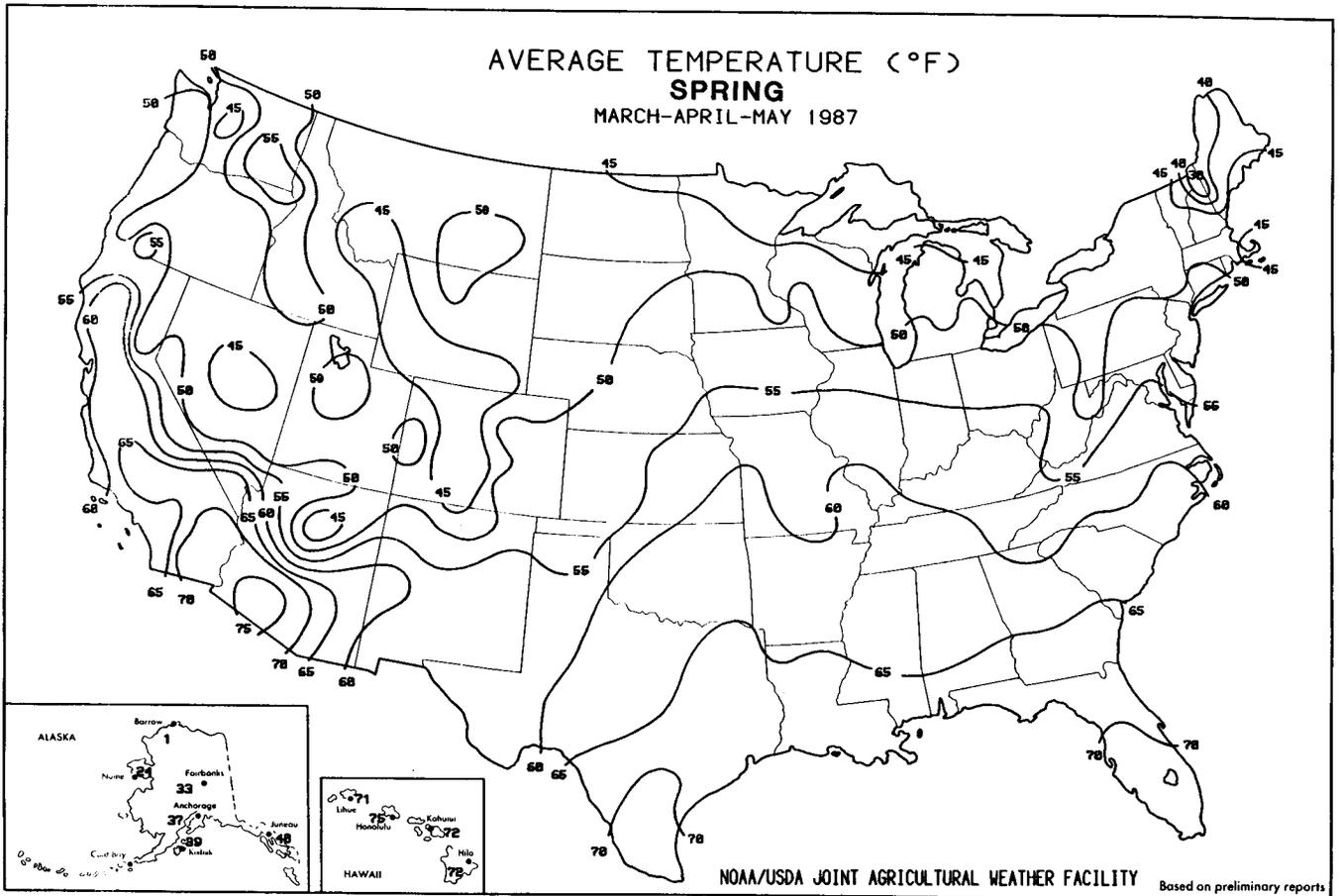
HIGHLIGHTS: Spring rains produced much less than normal moisture in most of the crop areas of the East, but rain was ample early and late in the season through the Great Plains and much of the West. The Corn Belt was much drier than normal, but timely showers provided moisture for early crops. Thunderstorm season got underway early, but by the end of the season, storms were widespread through much of the Nation. Heavy downpours in the central and southern Plains and in parts of New England and the mid-Atlantic States resulted in serious flooding. Average temperatures were cooler than normal over most of Texas, the gulf coast, and most of the East Coast. The rest of the country was warmer than normal. Seasonal averages were as much as 8 to 10 degrees warmer than normal in parts of the northern Plains and the upper Mississippi Valley.

MARCH...Precipitation was below normal in most of the area east of the Mississippi Valley except for Florida and most of the East Coast. Precipitation was ample in the central Great Plains and much of the northern Plains. Although many storms moved through the Southwest, precipitation was generally below normal and was spotty in all of the West. Two arctic outbreaks caused blizzards in the central High Plains, severely stressing livestock. March temperatures were mild over much of the Nation, but at monthend, severe cold weather pushed into the Plains and moved eastward to the Appalachians. Freezing temperatures reached deep into the South, threatening fruit trees and early vegetables.

APRIL...A series of slow-moving storms moved through the central Appalachians and northeastward, resulting in above-normal precipitation in the Northeast. Temperatures were warmer than normal in the Northeast for most of the month, but a late season storm dumped snow over most of the area and heavy snow accumulated in southern New England. Flooding occurred in New England and in western Virginia. Very dry weather plagued the northern Plains and upper Mississippi Valley, and precipitation was well below normal through much of the Plains and the South. Light showers helped the Midwest, but accumulations were less than normal. Widespread showers in northern Mexico spread into Arizona, New Mexico, and southwestern Texas.

MAY...Spring thunderstorms provided ample moisture to most of the Nation, but some significant areas had less than normal rain. The area from eastern Missouri through central Illinois and the Ohio Valley had below-normal rain, but showers late in the month provided surface moisture for newly planted crops. Another relatively dry area reached from southeastern Georgia through the Carolinas and from western Virginia to the Ohio Valley. Too much rain plagued parts of Oklahoma and Texas as heavy downpours caused flooding, and almost daily showers slowed work. Most of the Nation was warmer than normal. The warmest areas were across the Corn Belt and in the northern Great Plains.





National Agricultural Summary

June 15 to 21, 1987

HIGHLIGHTS: Rain hampered small grain harvest in the Southeast but alleviated much of the dryness. Scattered showers promoted crop growth in the Corn Belt and central Great Plains. Dry conditions concerned most farmers in the northern Great Plains and northern Corn Belt. Rain limited fieldwork to 4 days or less in most Southeastern and Delta States. Farmers were able to work 5 to 6 days in most other areas.

Winter wheat was mostly good to fair in the northern half of the Nation. Crop condition was fair to good in the Delta. Wheat harvest climbed 12 points ahead of the previous week to 31% completion. Harvest was 5 percentage points below 1986 but 11 points above the 5-year average. Spring wheat was 35% headed, 23 points ahead of normal. Corn silking was limited mostly to the southern half of the Nation but was underway in Kansas. Corn reached the dent stage in Texas and Georgia. Sorghum was 92% planted compared with 83% normally. Sorghum was heading in Louisiana, and heading and turning color in Texas. Cotton was 94% seeded, 2 points behind normal. Planting increased significantly in Oklahoma and Texas but both States were still behind normal. Squares were present on 37% of the acreage. Boll setting was underway in Alabama, Arizona, Georgia, Louisiana, and Texas. Tobacco harvest was underway in Georgia. Livestock was mostly good.

SMALL GRAINS: Winter wheat harvest climbed 9 points ahead of the previous week to 31% completion. This was 5 points behind 1986 but 11 points ahead of normal. Harvest was underway as far north as Illinois in the 20 major producing States. Harvest neared completion in Arkansas and Georgia and was more than half finished in California, Illinois, Missouri, North Carolina, and Oklahoma. Rain slowed harvest in the Southeast. Leaf rust was prevalent in central Kansas. Ninety percent of Nebraska's wheat turned color. Extreme southern areas began ripening and test cuttings were underway. Wheat harvest made good progress in Oklahoma, up 40 points from the previous week.

Spring wheat was mostly good but signs of dryness showed especially in Minnesota and South Dakota. Heading was 35% finished compared with 9% last year and the 13% average. More than half the spring wheat in Minnesota and South Dakota reached the heading stage. Heading was ahead of normal in all States ranging from 10 points ahead of normal in Idaho to 42 points above normal in Minnesota.

CORN: Corn was mostly good in the central and northern Great Plains and the Corn Belt. Crop condition was mostly good to fair elsewhere. Rain provided much needed moisture in the Southeast and some Corn Belt States. European corn borers approached treatment levels in Kansas. Corn silking was still limited mostly to the southern half of the Nation but was underway in Kansas. Corn in the dough stage began moving into the Delta and spreading across the Southeast. Corn reached the dent stage in Georgia and Texas.

SOYBEANS: Soybeans were 95% seeded in the 19 major producing States, 5 points ahead of 1986 and 7 points ahead of the average. Rain hampered planting in the Southeast. Seeding was finished in Illinois, Iowa, Michigan, Minnesota, Nebraska, Ohio, and South Dakota. North Carolina was the only State where seeding was behind normal with a 5-point deficit.

SORGHUM: Sorghum was 92% seeded, compared with 89% in 1986 and 83% normally. Planting was up 8 points from the previous week mostly because of the 15- and 25-point gain in Kansas and Oklahoma, respectively. Seeding was virtually finished in the Delta and Corn Belt. Planting pulled even with the average in Oklahoma and Texas with 75% and 91% seeded, respectively. Chinch bug migration continued causing problems in central and eastern Kansas. Yellowing continued in the Blackland areas of Texas. Sorghum was heading in the Blackland, south and east. Many fields turned color in southern areas and some were mature in the Rio Grande Valley.

COTTON: Cotton seeding reached 94% completion, 1 point ahead of 1986 but 2 points below normal. Seeding progressed rapidly, climbing 12 points from the previous week in Texas and 15 points in Oklahoma. Seeding was finished or nearly complete elsewhere. Squaring reached 37% of the acreage compared with 26% normally. Cotton set bolls in Arizona, Alabama, Georgia, Louisiana, and Texas. Warm weather improved cotton growth in most areas of Texas. Some replanting was necessary in the Plains. Excess moisture caused some boll droppage in the Valley and at Coastal Bend.

OTHER CROPS: Rice was heading in Louisiana and Texas. Heading was 5 points behind normal in Texas and 8 points below the average in Louisiana.

Kentucky's tobacco was fair to good. Some acreage was set three times to achieve satisfactory stands. North Carolina's tobacco was good to fair. Flue-cured tobacco harvest was underway in Georgia. A few acres remained to be transplanted in Tennessee.

Peanuts were mostly good in the Southeast. Planting continued in Texas. Water damaged many fields along the Upper Coast and caused replanting.

FRUIT AND NUTS: Citrus grove irrigation continued in Florida. New growth appeared in well-cared-for groves. Valencia harvest slowed. Fruit set was good in most Texas citrus groves. Fruit sized rapidly with rain. Navel orange growers treated groves to control scale insects in California. Valencia harvest gained momentum. Almonds neared the hull-split stage and walnuts began normal nut droppage. Peach, plum, and nectarine harvests continued.

Peach harvest was 45% finished in Georgia, just slightly behind normal. Harvest lagged 10 points behind normal in Louisiana. Peaches sized well in New Jersey.

VEGETABLES: Florida's vegetable harvest declined in central areas but increased in northern producing areas. Watermelons, tomatoes, sweet corn, potatoes, celery, peppers, and cucumbers were volume leaders. Vegetable harvest resumed in most areas of Texas. Heavy losses continued in the San Antonio-Winter Garden area. Growth and development of most vegetables were good in east Texas. California vegetable harvest consisted mostly of broccoli, carrots, cauliflower, celery, sweet corn, lettuce, and melons.

PASTURES AND LIVESTOCK: Precipitation provided much needed moisture for pasture growth in the Southeast. Dryness began limiting growth in the northern Plains area. Livestock was mostly good. Extreme heat caused stress in some Corn Belt States.

CROP PROGRESS

FOR WEEK ENDING JUNE 21, 1987

	CORN % SILKING		
	1987	1986	AVG.
COLO	0	0	0
GA	68	82	71
ILL	0	1	0
IND	0	0	0
IOWA	0	0	0
KANS	1	2	1
KY	1	NA	NA
MICH	0	0	0
MINN	0	0	0
MO	0	0	0
NEBR	0	0	0
N C	10	19	19
OHIO	0	0	0
PA	0	0	0
S DAK	0	0	0
TEX	57	63	61
WIS	0	0	0

17 STATES 2 NA NA

EXCL. STATES WITH NA 2 3 3

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

NA - NOT AVAILABLE.

	COTTON % PLANTED		
	1987	1986	AVG.
ALA	100	100	100
ARIZ	100	100	100
ARK	100	100	100
CALIF	100	100	100
GA	99	99	100
LA	100	100	100
MISS	100	100	100
MO	100	100	100
N MEX	100	100	98
N C	100	100	100
OKLA	60	75	75
S C	100	100	100
TENN	100	100	100
TEX	92	88	93

14 STATES 94 93 96

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

	SOYBEANS % PLANTED		
	1987	1986	AVG.
ALA	86	83	81
ARK	90	71	75
GA	81	77	81
ILL	100	100	97
IND	99	90	91
IOWA	100	99	95
KANS	85	90	60
KY	86	66	64
LA	86	90	89
MICH	100	90	95
MINN	100	100	100
MISS	87	69	78
MO	96	89	70
NEBR	100	100	93
N C	72	79	77
OHIO	100	94	99
S C	79	78	78
S DAK	100	81	93
TENN	85	70	75

19 STATES 95 90 88

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

GRAIN SORGHUM
% PLANTED

	1987	1986	AVG.
	ARK	98	95
ILL	99	95	84
KANS	90	85	70
LA	100	100	98
MISS	100	94	93
MO	99	93	84
NEBR	100	100	94
OKLA	75	70	75
S DAK	91	82	87
TENN	95	90	86
TEX	91	88	91

11 STATES 93 89 NA

EXCL. STATES WITH NA 92 89 83

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

NA - NOT AVAILABLE.

	RICE % HEADED		
	1987	1986	AVG.
ARK	0	0	0
CALIF	0	0	0
LA	3	15	11
MISS	0	0	2
TEX	6	20	11

5 STATES 1 5 4

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

	WINTER WHEAT % HARVESTED		
	1987	1986	AVG.
ARK	90	63	67
CALIF	55	50	40
COLO	0	1	0
GA	92	92	86
IDAHO	0	0	0
ILL	55	1	4
IND	10	5	2
KANS	35	50	10
MICH	0	0	0
MO	68	52	19
MONT	0	0	0
NEBR	0	0	0
N MEX	50	80	NA
N C	57	75	61
OHIO	0	1	0
OKLA	75	75	50
OREG	0	0	0
S DAK	0	0	0
TEX	38	63	53
WASH	0	0	0

20 STATES 31 37 NA

EXCL. STATES WITH NA 31 36 20

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

NA - NOT AVAILABLE.

	SPRING WHEAT % HEADED		
	1987	1986	AVG.
IDAHO	29	12	19
MINN	53	9	11
MONT	20	5	8
N DAK	22	7	6
S DAK	69	23	40

5 STATES 35 9 13

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

	COTTON % SQUARING		
	1987	1986	AVG.
ALA	52	48	40
ARIZ	89	92	87
ARK	69	41	34
CALIF	50	50	26
GA	49	44	56
LA	51	69	40
MISS	71	59	46
MO	58	23	24
N MEX	25	30	19
N C	45	32	33
OKLA	3	0	1
S C	66	54	59
TENN	55	25	20
TEX	17	15	15

14 STATES 37 32 26

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

CROP CONDITION

CROP CONDITION PERCENT
FOR WEEK ENDING JUNE 21, 1987

WINTER WHEAT					
STATE	VP	P	F	G	EX
ARK	0	12	46	37	5
COLO	0	3	25	47	25
GA	1	2	39	58	0
IDAHO	0	1	8	75	16
ILL	0	5	36	54	5
IND	0	1	28	66	5
KANS	0	0	11	42	47
MICH	2	8	30	50	10
MONT	0	0	20	62	18
NEBR	0	0	38	61	1
N MEX	0	0	7	53	40
N C	0	1	18	76	5
OHIO	0	2	19	66	13
OKLA	0	5	60	35	0
OREG	0	0	11	58	31
S DAK	2	12	37	46	3
TEX	1	14	41	32	12
WASH	0	0	20	70	10

CORN					
STATE	VP	P	F	G	EX
COLO	0	2	8	70	20
GA	0	1	20	74	5
ILL	0	4	17	69	10
IND	0	1	30	53	16
IOWA	0	2	19	67	12
KANS	0	0	1	25	74
KY	0	5	37	48	10
MICH	1	9	30	45	15
MINN	2	1	29	58	10
MO	1	7	43	48	1
NEBR	0	0	9	85	6
N C	0	3	37	59	1
OHIO	0	3	16	57	24
PA	0	2	13	51	34
S DAK	1	1	19	60	19
TEX	0	2	13	53	32
WISC	1	2	22	64	11

COTTON					
STATE	VP	P	F	G	EX
ALA	0	0	35	65	0
ARIZ	0	0	0	85	15
ARK	0	0	16	77	7
CALIF	0	0	0	40	60
GA	0	0	10	89	1
LA	0	0	27	61	12
MISS	0	0	28	62	10
MO	0	0	33	67	0
N MEX	0	0	43	57	0
N C	0	0	21	76	3
OKLA	0	0	60	40	0
S C	0	2	14	84	0
TENN	4	19	26	44	7
TEX	1	6	51	40	2

GRAIN SORGHUM					
STATE	VP	P	F	G	EX
ARK	0	2	50	48	0
ILL	0	1	20	78	1
KANS	0	0	7	36	57
LA	0	9	32	55	4
MISS	0	0	26	70	4
MO	0	11	52	37	0
NEBR	0	0	23	74	3
OKLA	0	0	20	78	2
S DAK	1	0	34	61	4
TENN	0	4	59	37	0
TEX	0	1	14	67	18

SOYBEANS					
STATE	VP	P	F	G	EX
ALA	0	0	27	70	3
ARK	0	2	34	64	0
GA	0	1	13	84	2
ILL	0	5	36	54	5
IND	0	1	24	70	5
IOWA	1	2	23	69	5
KANS	0	0	7	38	55
KY	0	9	35	55	1
LA	0	15	34	47	4
MICH	2	8	30	50	10
MINN	1	2	42	50	5
MISS	0	0	33	62	5
MO	1	10	56	33	0
NEBR	0	0	21	75	4
N C	0	2	36	62	0
OHIO	1	5	20	59	15
S C	0	2	26	72	0
S DAK	1	1	18	66	14
TENN	1	6	56	37	0

SPRING WHEAT					
STATE	VP	P	F	G	EX
IDAHO	0	3	14	65	18
MINN	0	7	32	54	7
MONT	0	0	17	67	16
N DAK	0	6	25	67	2
S DAK	4	8	41	45	2

RICE					
STATE	VP	P	F	G	EX
ARK	0	0	37	63	0
CALIF	0	0	0	50	50
LA	0	0	21	73	6
MISS	0	0	7	85	8
TEX	0	0	8	78	14

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

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 1.00 to 2.00 in. north; 2.00 to 4.00 in. central, south. Local amounts 5.00 to 7.00 in. south. Temperatures averaged 1 to 2° below normal.

Days suitable for fieldwork 2.2. Soil moisture 5% short, 57% adequate, 38% surplus. Much needed rain improved all crops; dry weather needed to control weed, insect infestation. Sorghum 83% planted, 84% 1986, 80% avg.; 39% fair, 61% good. Soybeans 86% planted, 83% 1986, 81% avg.; 35% fair, 65% good. Cotton 52% squaring, 48% 1986, 40% avg.; 5% setting bolls, 3% 1986; 27% fair, 70% good, 3% excellent. Corn 58% silking, 58% 1986, 52% avg.; 38% fair, 62% good. Peanuts 15% pegging, 6% 1986, 15% avg.; 25% fair, 67% good, 8% excellent. Wheat 71% harvested, 73% 1986, 70% avg.; 8% poor, 59% fair, 33% good. First hay 84% harvested, 74% 1986, 77% avg. Livestock, pastures mostly good. Primary activities: Planting soybeans, sorghum; harvesting wheat, hay, vegetables, peaches, potatoes; fertilizing pastures; spraying orchards; stocking, fertilizing, fish ponds; controlling weeds, insects in row crops; routine care of livestock, poultry.

ALASKA: NO DATA AVAILABLE.

ARIZONA: Weather disturbance 15th brought cooler, very dry air; shower, thunderstorm activity ceased. Maximum temperatures 5 to 10° lower west, 1 to 4° lower east, compared with 14th. Abundant sunshine, dry air, near normal temperatures prevailed 16th to 20th. Average temperatures normal to 6° above.

Cotton progress good, growing normally. Johnson grass, morning glory, ground cherry, jungle rice controlled through cultivation, herbicides. Pink bollworm controls applied. Wheat, barley harvest neared completion, harvest continued rapid west, central. Harvested fields rapidly prepared for next crops. Alfalfa excellent, hay harvest continued under favorable curing conditions west. Sudan grass excellent, final crop utilized for green manure many areas. Corn, sorghum good, jointing. Lettuce deal complete Willcox. Dry onion movement east moderate. Green onions, carrots, sweet corn shipped central valley. Fresh potato harvest complete Tolleson; chipper movement Queen Creek heavy. Fig crop 1st pick complete central valley; 2nd pick to begin 29th. Grape harvest progressed, quality good, size erratic. Perlette shipments tapered off central valley; flame seedless continued; thompsons not quite ready. Perlettes complete west; flame seedless, thompsons progressed. Valencia orange, grapefruit movement continued central valley; citrus groves good. Nutritional sprays applied to apples. Cantaloup, watermelon, honeydew movement steady west, central valley; fruit rapidly maturing. Few honeydews shipped Aguila, Parker-Poston; cantaloups heavy Parker-Poston.

ARKANSAS: Warm weather with scattered showers prevailed through week. Temperature extremes 58°; 97°. Rainfall none to 3.48 in.

Days suitable for fieldwork 6.0. Major activities: Harvesting wheat; planting soybeans; baling hay; applying herbicides, fertilizer to rice and soybeans. Soybeans 80% emerged. Sorghum 96% emerged.

CALIFORNIA: Low pressure dominated weather pattern brought below normal temperatures 15th, 16th. Few

showers northern mountains, 0.38 in. Tulalake, 0.23 in. Blue Canyon.

Small grain harvest continued; more dryland grains sheared off. Cotton irrigation, fertilization, treatments on going; progress good. Rice chemical treatment continued. Safflower blooming. Sugarbeets treated-grasshoppers, aphids. Dry beans, corn, milo planted behind grains. Alfalfa all stages in State; northern area received some weather damage. Early apricot variety harvest completed. Hass avocado harvest continued, southern areas. Coachella Valley table grape harvest continued, good quality; perlette and flame seedless virtually complete, thompson seedless accelerated. San Joaquin Valley table grape harvest expected July 1st. San Joaquin Valley grape growers sprayed to control grapeleaf skeletonizer, leafhoppers, mildew. Picking of peaches, plums, nectarines continued. Navel orange growers treated groves to control scale insects. Valencia harvest gained momentum. Almonds neared hull-split stage. Walnuts began normal nut droppage. Artichokes fairly light, good quality Salinas. Light harvesting Santa Cruz-San Mateo. Strawberries harvested for processing, south coast; picking nearly finished Sacramento Valley, Riverside County. Broccoli moderate both Salinas, Santa Maria; quality good, variable respectively. Carrot fairly heavy, good quality, Salinas. Cauliflower fairly heavy Salinas; moderate Santa Maria; variable, good quality respectively. Celery light, good quality Santa Maria-Oceano. Packing Salinas-Watsonville fairly light, good quality. Sweet corn harvest active, Westside, while Sacramento Valley ready for harvest. Picking Coachella Valley started to wind down. Lettuce moderate both Salinas, Santa Maria; variable quality. Harvest light, good quality south coast. Preparations made to plant fall crop Westside. Melon fields good shape statewide. Watermelon harvest continued, good quality Palo Verde Valley, winding down Imperial-Coachella Valley. Cantaloup movement decreased Imperial Valley, should be done by July 4th; variable quality. Honeydew harvest done by June 26th Imperial Valley, volume Blythe area should increase. Melon harvest Westside should begin after July 4th. Red, yellow onion digging continued Fresno area. Dry onion harvest active Delta. Pepper harvesting started south coast. Fall potato plantings Tulalake-Butte Valley showed excellent growth, cultivation nearly complete. Packing sheds continued to move 1986 crop part-time due to slow demand. Digging spring crop continued Kern County, harvesting summer crop Hemet-San Jacinto expected by July 3rd. Sweetpotato fields doing well statewide. Tomatoes processing, fresh market progressed well. Westside area table tomato packing active, good quality. Production increased, south coast. Cutler-Orosi, Merced-Atwater, good quality. Early fields for processing Sacramento Valley, ready for harvest July 4th; fields Huron District, desert area begin June 26th. Dry summer range conditions continued. Cooler temperatures, mountain showers eased conditions. Fire danger continued high, valley, foothill areas. Water supplies continued low. Livestock generally good overall.

COLORADO: Temperatures 1 to 5° above normal. Mostly dry San Luis Valley, West Slope. Heavy rain 18th, 19th east of Continental Divide; trace to

0.50 in. most of State; 2.35 in. along Kansas border.

Days suitable for fieldwork 5.7. Soil moisture adequate. Small grains, livestock good. Corn emergence complete. Winter wheat 69% turning color. Dry beans 91% planted.

FLORIDA: Showers some locally heavy, throughout week, north, Panhandle spreading to central, southern areas midweek. Temperatures averaged near to above normal.

Soil moisture short to adequate all areas. Wheat harvest neared completion; tobacco harvest gained; haymaking active where weather permitted. Corn, peanuts, cotton fair to good. Soybean planting active. Sugarcane made good growth. Pastures mostly good to excellent south Peninsula; poor to fair elsewhere. Cattle, calves good to excellent south, poor to fair elsewhere. Grove irrigation continued. New growth in well cared for groves, Valencia harvest slowed with supplies low, grapefruit movement all but complete. Hot days, warm nights prevailed over vegetable areas. Rain beneficial unirrigated watermelons, other crops. Harvest declined central areas, increased northern areas. Volume leaders: Watermelons, tomatoes, sweet corn, potatoes, celery, peppers, cucumbers. Light supplies carrots, eggplant. Hastings potato harvest neared completion.

GEORGIA: Rain 4 to 7 days all reporting locations, 1.00 to 4.00 in. across State. Few local areas, extreme southeast below 1.00 in. Temperatures 1 to 3° above normal except southwest 1 to 2° below normal. Lows to mid 90s southeast, low to mid 60s north to 70s central, south. Highs mid 80s northeast mountains 90s north, central.

Days suitable for fieldwork 2.6. Soil moisture 1% very short, 5% short, 66% adequate, 28% surplus. Corn 21% dough, 39% 1986, 37% avg.; 1% dent, 9% 1986, 12% avg. Cotton 2% setting bolls, 3% 1986, 9% avg. Sorghum grain 4% poor, 17% fair, 77% good, 2% excellent; 86% planted, 83% 1986, 79% avg. Peanuts 10% fair, 82% good, 8% excellent; 51% blooming, 48% 1986, 62% avg.; 11% pegging, 15% 1986, 22% avg. Tobacco 11% poor, 16% fair, 73% good; 1% harvested, 2% 1986, 6% avg. Watermelons 27% fair, 73% good; 1% harvested, 10% 1986, 11% avg. Rye 6% poor, 34% fair, 60% good. Other small grains 5% poor, 31% fair, 64% good. Apples 9% fair, 91% good. Peaches 10% poor, 2% fair, 88% good; 45% harvested, 54% 1986, 47% avg. Pasture 1% very poor, 4% poor, 21% fair, 68% good, 6% excellent. Hay 1% very poor, 1% poor, 31% fair, 65% good, 2% excellent. Cattle 1% poor, 7% fair, 87% good, 5% excellent. Hogs 6% fair, 87% good, 7% excellent. Main activities: Harvesting wheat, peaches, hay. Planting cotton, soybeans, sorghum. Spraying herbicides, insecticides. All activities slowed due to rain.

HAWAII: Variable weather. Record high temperatures some areas. Heavy rains slowed farm activity other areas. Temperatures above average. Irrigation remained heavy. Spraying heavy, pest damage increased. Crops mostly fair to good. Trade winds 10 to 23 mph. Temperatures ranged low 70s to low 90s. Rainfall ranged none to 4.20 in.

Days suitable for fieldwork 7.0. Banana, papaya production steady. Chinese, head cabbage production moderate, good quality. Active watermelon harvesting continued.

IDAHO: Temperatures slightly above normal. Precipitation above normal north, below normal elsewhere.

Days suitable for fieldwork 6.0. Crops developing rapidly. Winter wheat mostly good. Spring wheat

mostly good. Potatoes showed good growth, closing middles southwest. Dry bean planting active. Cherry harvest full swing. First cutting alfalfa hay 67% complete. Range, pastures benefited by recent rains. Livestock good. Insect, grasshopper infestation minimal.

ILLINOIS: Temperatures averaged 2 to 8° above normal. Precipitation widely scattered 0.16 to 2.82 in.

Days suitable for fieldwork 6.3. Soil moisture 82% short, 15% adequate, 3% surplus. Corn height average all fields 42 in., 39 in. 1986, 25 in. avg.; most advanced fields 61 in., 58 in. 1986, 39 in. avg. Wheat 100% turning yellow, 93% 1986, 84% avg.; 90% ripe, 63% 1986, 33% avg. Oats 97% headed, 96% 1986, 82% avg.; 78% filled, 67% 1986, 49% avg.; 35% turning yellow, 17% 1986, 11% avg.; 2% very poor, 5% poor, 21% fair, 67% good, 5% excellent. Alfalfa hay 1st crop 99% cut, 93% 1986, 91% avg.; 2nd crop 23% cut, 9% 1986, 10% avg.; 10% poor, 32% fair, 53% good, 5% excellent. Red clover crop 90% cut, 73% 1986, 75% avg.; 7% poor, 29% fair, 58% good, 6% excellent. Pasture 5% very poor, 17% poor, 45% fair, 31% good, 2% excellent.

INDIANA: Temperatures 4 to 8° above normal. Lows mid to upper 60s, highs upper 80s to low 90s. Precipitation totals over 1.00 in. most areas.

Days suitable for fieldwork 6.0 days. Topsoil moisture 59% short, 40% adequate, 1% surplus. Subsoil moisture 50% short, 49% adequate, 1% surplus. Corn mostly good. Corn 42 in. tall, 29 in. 1986, 18 in. avg. Soybeans good. Soybeans 10 in. tall, 6 in. 1986, 5 in. avg. Wheat 55% ripe, 25% 1986, 12% avg. Alfalfa 99% cut once, 78% 1986, 85% avg. Clover 85% cut, 64% 1986, 64% avg. Tobacco 96% set, 93% 1986, 77% avg. Pastures 1% very poor, 8% poor, 60% fair, 31% good. Oats 93% headed, 85% 1986, 68% avg. Showers relieved crop stress due to hot dry weather.

IOWA: Hot week, spotty rainfalls mid, late week. Thunderstorms produced damaging hail, winds, excessive rainfalls; most areas reported subnormal rainfalls. Temperature extremes 51° 16th; 99° 15th.

Days suitable for fieldwork 6.3. Topsoil moisture 78% short, 21% adequate, 1% surplus. Subsoil moisture 27% short, 70% adequate, 3% surplus. Oats 9% poor, 40% fair, 46% good, 5% excellent; 95% headed, 74% 1986, 61% avg.; 15% turning color, 2% 1986, none avg. Winter wheat mostly good to fair. Hay 9% poor, 38% fair, 48% good, 5% excellent. First crop alfalfa 95% harvested, 83% 1986, 75% avg. First crop clover 70% harvested, 47% 1986, 46% avg. Corn cultivated 1st time 95%, 72% 1986, 59% avg.; average corn height 32 in. Soybeans cultivated 1st time 65%, 27% 1986, 26% avg. Livestock mostly good. Extremely high temperatures caused some stress on hogs, with some reports of sow losses. Pastures mostly fair; 5% very poor, 27% poor, 35% fair, 32% good, 1% excellent.

KANSAS: Temperatures averaged 82° northeast to 76° northwest; 1 to 8° above normal. Precipitation west, central averaged 1.00 to 2.00 in. Southwest, east central averaged 0.50 in. Locally heavier amounts over 2.00 in.

Days suitable for fieldwork 5.5. Soil moisture 22% short, 70% adequate, 8% surplus. Wheat 100% turning, 99% 1986, 75% avg.; 80% ripe, 75% 1986, 30% avg. Harvest good progress, faster central third. Armyworms prevalent pest. Leaf rust prevalent central, increased west and north. European corn borers east, approaching treatment levels. Southwestern corn borers south central,

mostly low levels. Common rust widespread, degree of incidence varied. Common smut widespread, most active northeast. Sorghum chinch bugs migrating from small grains, damage central and east. Second cutting alfalfa 25%. Feed grain supplies adequate. Range, pastures adequate grazing.

KENTUCKY: Scattered showers, thunderstorms produced rain amounts averaging around 1.00 in., but varied widely. Rainfall totals ranged from just over 3.00 in. some west locations to around 0.25 in. central. Very warm, humid air prevailed with temperatures averaged 3 to 7° above normal. Lows mostly 60s, high readings lower to mid 90s.

Days suitable for fieldwork 5.1. Soil moisture 26% very short, 51% short, 23% adequate. Corn 10% tasseling. Average height 38 in. Soybean planting most advanced since 1980. Tobacco extremely variable; 2% very poor, 11% poor, 56% fair, 29% good, 2% excellent. Some set 3 times. Wheat for grain 63% harvested, 42% 1986, 23% avg. Yields mostly good. Sorghum planting neared completion. Pastures 6% very poor, 23% poor, 46% fair, 24% good, 1% excellent.

LOUISIANA: Temperature normal to 3° below. Temperature extremes 62°; 95°. Rainfall averaged 0.30 to 4.10 in.

Days suitable for fieldwork 2.2. Soil moisture 4% short, 35% adequate, 61% surplus. Corn fair to good; 67% silked, 95% 1986, 78% avg.; 17% dough stage, 58% 1986, 40% avg. Cotton 51% squaring, 69% 1986, 40% avg.; 7% setting bolls, 6% 1986, 2% avg. Rice 3% headed, 15% 1986, 11% avg. Sorghum 100% planted, 100% 1986, 98% avg.; 98% emerged, 100% 1986, 96% avg.; 5% headed, 27% 1986, 19% avg. Soybeans 86% planted, 90% 1986, 89% avg.; 76% emerged, 84% 1986, 82% avg. Sweetpotatoes good; 88% planted, 89% 1986, 88% avg. Winter wheat 94% harvested, 88% 1986, 93% avg. Peaches 22% harvested, 57% 1986, 32% avg. Hay 1st cutting 80%, 80% 1986, 85% avg. Sugarcane, vegetables fair to good; pastures, livestock good. Main activities: Planting sweetpotatoes; harvesting vegetables, wheat; baling hay; weed, insect control as weather permitted. Some soybeans destroyed by heavy rain.

MARYLAND & DELAWARE: Maryland: Temperatures averaged 76°, 72° normal; lowest temperature 50°; highest temperature 96°. Precipitation averaged 0.46 in., ranging from trace to 2.01 in.

Days suitable for fieldwork 6.5. Topsoil moisture mostly short to adequate. Subsoil moisture mostly adequate to short. Corn 100% planted, 100% 1986, 100% avg. Soybeans 70% planted, 70% 1986, 70% avg. Tobacco 85% transplanted, 85% avg. Wheat, oats, barley, rye good. Alfalfa 99% 1st cut, 95% avg. Apples mostly good to excellent. Peaches good to excellent.

Delaware: Temperatures averaged 76°, 72° normal. Precipitation averaged 0.13 in.

Days suitable for fieldwork 7.0. Topsoil moisture very short to short. Subsoil moisture mostly short. Wheat, barley, rye good. Soybeans 65% planted, 75% avg. Apples good.

MICHIGAN: Temperatures ranged 6 to 10° above normal. Temperature extremes 46°; 99°. Precipitation ranged from none to 1.42 in. across State.

Days suitable for fieldwork 6.5. Soil moisture 95% short, 5% adequate. Corn 1% very poor, 9% poor, 30% fair, 45% good, 15% excellent. Soybeans 100% planted, 90% 1986, 95% avg.; 2% very poor, 8% poor, 30% fair, 50% good, 10% excellent. Wheat 2% very poor, 8% poor, 30% fair, 50% good, 10% excellent. Dry beans 90% planted, 75% 1986, 75%

avg. Rains June 21st relieved moisture shortages. Major activities: Irrigating, applying nitrogen fertilizer, insecticides, making hay, hoeing sugarbeets, suckering grapes, harvesting sweet cherries.

MINNESOTA: Temperatures averaged 6 to 11° above normal. Temperature extremes 40°; 101°. Precipitation averaged 0.20 in. above normal southeast, 0.10 to 0.91 in. below normal elsewhere. Precipitation totals averaged trace or less northeast, 1.00 to 1.24 in. central and southeast, 0.04 to 0.73 in. elsewhere. Greatest weekly total 2.83 in.

Days suitable for fieldwork 5.6. Topsoil moisture 20% very short, 43% short, 35% adequate, 2% surplus. Spring wheat 97% jointing, 50% 1986, 64% avg.; 53% heading, 9% 1986, 11% avg. Oats 99% jointing, 70% 1986, 70% avg.; 80% heading, 25% 1986, 20% avg. Barley 99% jointing, 53% 1986, 64% avg.; 57% heading, 9% 1986, 14% avg. Field corn 91% cultivated, 65% 1986, 52% avg.; height 27 in., 14 in. 1986, 11 in. avg. Soybeans 99% emerged, 92% 1986, 91% avg.; 72% cultivated, 33% 1986, 26% avg.; height 9 in., 4 in. 1986, 4 in. avg. Sweet corn 99% planted 97% 1986, 92% avg. Alfalfa hay 1st crop 95% cut, 81% 1986, 64% avg. Field corn 2% very poor, 1% poor, 29% fair, 58% good, 10% excellent. Soybeans 1% very poor, 2% poor, 42% fair, 50% good, 5% excellent. Spring wheat 7% poor, 32% fair, 54% good, 7% excellent.

MISSISSIPPI: Temperatures near normal; extremes 60°; 95°. Upper level low pressure caused extensive cloudiness, rainfall. Rainfall averaged 3.30 in. central region, 1.20 in. upper Delta. Greatest 24-hour total rainfall 4.01 in.

Days suitable for fieldwork 2.4, 5.6 1986, 4.7 avg. Soil moisture 5% short, 28% adequate, 52% surplus, 15% excessive. Corn 38% silking, 53% 1986, 36% avg.; 3% dough stage, 8% 1986; 32% fair, 48% good, 20% excellent. Wheat 77% harvested, 74% 1986, 72% avg.; 51% fair, 47% good, 2% excellent. Sweetpotatoes 90% planted, 85% 1986, 85% avg. Peanuts 97% planted, 94% 1986, 97% avg. Hay 38% harvested, 30% 1986, 41% avg. Rice 7% fair, 85% good, 8% excellent. Sorghum 26% fair, 70% good, 4% excellent. Cotton 71% squaring, 59% 1986, 46% avg.; 28% fair, 62% good, 10% excellent. Soybeans 87% planted, 69% 1986, 78% avg.; 80% emerged, 49% 1986, 63% avg.; 33% fair, 62% good, 5% excellent.

MISSOURI: Temperatures averaged 4 to 9° above normal. Precipitation 2.00 in. southern and southwest, less than 0.10 in. southeast, around 0.25 northwest.

Days suitable for fieldwork 5.8. Topsoil moisture 75% short, 24% adequate, 1% surplus. Corn 11% tasseling, 13% 1986, 1% avg. Oats 19% harvested, 11% 1986, 1% avg. Alfalfa hay 2nd cutting 38%, 21% 1986, 13% avg. Other hay 76% harvested, 55% 1986, 49% avg. Pastures 6% very poor, 35% poor, 43% fair, 18% good.

MONTANA: Precipitation south central, southwest 0.25 to 1.00 in.; remainder 0.50 to 2.00 in., few local areas 3.00 to 4.00 in. Temperatures 3° above normal west and southwest, 10° above northeast, southeast.

Days suitable for fieldwork 5.8. Topsoil moisture 51% short, 47% adequate, 2% surplus. Subsoil moisture 22% short, 78% adequate. Barley 1% poor, 22% fair, 65% good, 12% excellent. Sugarbeets 17% fair, 67% good, 16% excellent. Alfalfa 43% harvested, 26% 1986, 20% avg. Wild hay 16% harvested, 13% 1986, 8% avg. Grasshopper damage to field crops 31% light, 41% moderate, 28% severe. Grasshopper infestation in ranges 31% light, 35% moderate, 34% severe.

NEBRASKA: Average temperature 50 above normal. Precipitation ranged 0.30 in. northwest and southwest to 2.00 in. north central and northeast. Extremes 49°; 104°.

Days suitable for fieldwork 5.6. Topsoil moisture 19% short, 74% adequate, 7% surplus. Subsoil moisture 10% short, 81% adequate, 9% surplus. Winter wheat 90% turned color, 72% 1986, 46% avg. Extreme southern areas began to ripen, test cutting underway. Russian aphid still problem, spreading to CRP wheat grass, other spring seeded grains. Corn cultivated, scouting for corn borers. Soybeans 96% emerged, 98% 1986, 89% avg. Sorghum 92% emerged, 98% 1986, 83% avg. Alfalfa 95% harvested, 90% 1986, 80% avg. Weevils still problem, stunting regrowth. Range, pasture feeds 95% adequate, 5% surplus.

NEVADA: Low pressure pattern dominated, brought rain to west and northwest. Rainfall varied greatly due to thunderstorms, heaviest Reno with 0.75 in. Temperatures ranged slightly below normal west, near normal east to above normal south.

Alfalfa hay harvest generally made good progress. Development of small grains, vegetables accelerated by warm weather. Most crops generally good.

NEW ENGLAND: Temperatures ranged from 60° near Canadian border to lower 70s south. Precipitation averaged 0.50 to 1.00 in. northern New Hampshire and central Maine, no rain to 0.50 in. remainder.

Days suitable for fieldwork 6.5. Soil moisture 5% very short, 20% short, 70% adequate, 5% surplus. Grazing availability 15% short, 85% adequate. Fieldwork 1 day behind. Maine potatoes 85% emerged, 70% 1986, 79% avg. Rhode Island potatoes 100% emerged, 100% 1986, 100% avg. Field corn 85% planted, 97% 1986, 95% avg.; 82% emerged, 91% 1986, 87% avg. Sweet corn 90% planted, 91% 1986, 90% avg.; 83% emerged, 83% 1986, 85% avg. Hay 60% harvested, crop good. Major farm activities: Harvesting hay, picking strawberries, spraying herbicides, cultivating.

NEW JERSEY: Temperatures averaged well above normal. Extremes 47°; 98°. Rainfall averaged 0.49 in. north, 0.07 in. central, 0.43 in. south. Heaviest 24-hour total 1.58 in. on 21st, 22nd. Estimated soil moisture percent field capacity averaged 59% north, 63% central, 31% south. Four inch soil temperatures averaged 70° north, 73° central, 74° south.

Several areas received heavy showers over weekend. Summer vegetable harvest increased. Irish potatoes continued good growth. Strawberry harvest completed. Blueberry harvest general. Apples, peaches continued to size well. Barley combining continued as conditions permitted. Wheat well colored. Early field corn up about 18 in. Early soybeans germinated. Pasture growth varied.

NEW MEXICO: Temperatures over State ranged from near normal central, western areas to 5° above normal east central plains. Precipitation ranged from 0.93 in. Clayton to none central, western plains.

Days suitable for fieldwork 6.7. Soil moisture 28% short, 72% adequate. Some hail damage northeast. Alfalfa 27% good, 60% very good, 13% excellent. Cotton good to very good, hot days, warm nights stimulating growth, squaring began. Barley 8% fair, 25% good, 67% very good; harvest started. Wheat 7% good, 53% very good, 40% excellent. Harvest activity heavy, very good yields indicated. Corn 17% good, 83% very good, 92% acceptable stand. Onion harvest continued, good market prevails. Pecans 14% good, 86% very good;

average nut set. Chile 25% good, 62% very good, 13% excellent.

NEW YORK: Very dry week. Light showers Mohawk Valley, across Albany on 14th. Scattered showers St. Lawrence Valley, north Champlain Valley, north Adirondacks on 16th and 19th. Lows mostly 55 to 65° cooler north. Highs 80s, lows 90s.

Days suitable for fieldwork 6.5. Soil moisture adequate. Good week for haymaking. Alfalfa hay dry; harvest 56% complete, 46% 1986, 41% avg. Clover-timothy hay harvest 53% complete, 51% 1986, 45% avg. Corn grew well, weed problems. Dry bean planting continued. Pastures good.

NORTH CAROLINA: Temperatures averaged near normal. Temperature extremes 55°; 94°. Precipitation ranged from none to 3.38 in. across State. Storms scattered.

Days suitable for fieldwork 5.2. Soil moisture 8% very short, 43% short, 47% adequate, 2% surplus. Irish potatoes 44% fair, 56% good. Pasture fair to mostly good. Tobacco 1% poor, 37% fair, 61% good, 1% excellent. Peanuts 22% fair, 74% good, 4% excellent. Hay 6% poor, 28% fair, 58% good, 8% excellent. Hay 92% harvested. Oats 75% harvested, 80% 1986, 66% avg. Barley 78% harvested, 85% 1986, 71% avg. Rye 56% harvested, 65% 1986, 59% avg. Sorghum 80% planted, 82% 1986, 82% avg. Sweetpotatoes 92% planted, 87% 1986, 85% avg.; 34% fair, 63% good, 3% excellent. Fruit, truck crops fair to mostly good. Major farm activities: Harvesting small grains; cutting, baling hay; transplanting sweetpotatoes; planting sorghum, soybeans; sidedressing corn, cotton, tobacco; herbicide applications; harvesting vegetables, peaches, blueberries; tending livestock; general farm maintenance.

NORTH DAKOTA: Hot, humid week. Temperatures averaged 10 to 13° above normal. Extremes 48° southwest; 99° north central. Thunderstorms midweek, weekend. Heaviest west central 1.73 in.

Days suitable for fieldwork 6.4. Topsoil moisture well below normal; 11% very short, 64% short, 25% adequate. Subsoil moisture near normal; 2% very short, 18% short, 80% adequate. Small grains well ahead of normal. Spring wheat 92% jointing and beyond, 69% 1986, 65% avg.; durum wheat 83%, 54% 1986, 51% avg.; oats 93%, 79% 1986, 67% avg.; barley 93%, 76% 1986, 74% avg. All row crops above average height. Corn 13 in., 10 in. 1986, 7 in. avg.; flax 6 in., 4 in. 1986, 4 in. avg.; soybeans 7 in., 5 in. 1986, 4 in. avg.; sunflowers 6 in., 5 in. 1986, 4 in. avg.; dry edible beans 7 in., 5 in. 1986, 4 in. avg.; potatoes 10 in., 6 in. 1986, 5 in. avg. Broadleaf spraying 90% completed, wild oats 98%. Pasture 20% poor, 45% fair, 35% good. First cutting of hay well ahead of normal; alfalfa 70%, other hay 35% completed. Grasshopper problems many western areas. Cut worms began to appear, other disease minimal.

OHIO: Temperature lows ranged low 50s to low 60s, highs in low 90s. Average temperatures 3 to 7° above normal. Base 50 growing degree day accumulation 160 to 190°; 30 to 50° above normal. Precipitation north 1.00 to 2.00 in.; south 0.25 to 0.75 in. Evaporative losses 1.50 in.

Days suitable for fieldwork 6.1. Soil moisture 30% short, 63% adequate, 7% surplus. Farm activities: Haying, spraying, cultivating, fertilizing. Corn development 10 leaves unfurled. Corn borer, leaf hopper; not treatment levels. Corn good. Soybeans beginning bloom; good condition. Row crops growing fast. Wheat good; few fields harvested. First cut hay ahead of schedule; alfalfa first cutting near complete.

OKLAHOMA: Temperatures averaged normal north central to 5° above normal northeast. Precipitation averaged 0.33 in. northeast to 2.72 in. south central.

Days suitable for fieldwork 5.5. Topsoil moisture 18% short, 65% adequate, 17% surplus. Subsoil moisture 7% short, 93% adequate. Wheat 5% poor, 60% fair, 35% good; 75% harvested, 75% 1986, 50% avg. Low lying fields, still wet. Over 30% wheat stubble plowed. Sorghum 20% fair, 78% good, 2% excellent; 75% planted, 70% 1986, 75% avg. Cotton 60% fair, 40% good; 60% planted, 75% 1986, 75% avg.; 3% squaring, none 1986, 1% avg. Row crop plantings, wheat harvest made good progress. Pastures, livestock good. Cattle marketings, price near previous week levels.

OREGON: Temperatures warm start of week, normal thereafter. Precipitation above normal east of Cascades due to several days thunderstorm activity. Greatest amounts 1.59 in. Enterprise, 1.13 in. Burns.

Soil moisture 45% short, 55% adequate. Cool weather; rains slowed crop maturity. Barley harvest continued Columbia Basin, quality good. Other cereal grains also good. Spotted hail, wind damage Malheur County. Crimson clover seed combined; bluegrass, other early grass seed varieties swathed Willamette Valley. Some hay wet in windrow, rain slowed hay harvest around State. Strawberry harvest 75% completed, outstanding yields, some fruit by passed due to labor shortage. Raspberry; blueberry harvest started. Cherry harvest continued The Dalles, fruit color varies, labor still short. Picked brinier cherries Hood River. Fresh market cherry harvest completed Milton-Freewater. Pear, apple thinning continued Hood River, Medford. Cranberry bloom peak south coast. Potatoes killed Hermiston, central areas; some hail damage Klamath Basin; planting for seed winding down northeast. Walla Walla sweet onions harvested Milton-Freewater, Malheur County. Broccoli harvest began west. Last sweet corn planted Willamette Valley, Jackson County. Snap beans planted northwest. Green pea harvest continued Umatilla County. Livestock mostly good. Cattle, lambs sold at heavier than normal weights. Cattle moved to forest permits east. Range, pasture fair to good east. Dryland summer grazing expected to end 2 to 3 weeks early west. Stockwater holes drying up central areas, northeast, high desert.

PENNSYLVANIA: Hazy, hot, humid conditions across Commonwealth beginning, end of week. Warm, pleasant during middle of week. Average temperature 73°, 6° above normal. Temperature extremes 45°, 97°. Average precipitation 0.59 in., 0.35 in. below normal.

Days suitable for fieldwork 6.0. Soil moisture 48% short, 50% adequate, 2% surplus. Corn 98% planted, 100% 1986, 99% avg.; 2% poor, 13% fair, 51% good, 34% excellent. Average corn height 14 in., 18 in. 1986, 13 in. avg. Soybeans 84% planted, 91% 1986, 85% avg.; 1% poor, 22% fair, 51% good, 26% excellent. Barley 37% heading or headed, 29% 1986; 30% turning yellow, 34% 1986; 20% ripe, 26% 1986. Wheat 64% heading or headed, 50% 1986; 33% turning yellow, 44% 1986; 1% poor, 10% fair, 52% good, 37% excellent. Oats 86% heading or headed, 100% 1986; 14% turning yellow; 2% poor, 16% fair, 49% good, 33% excellent. First cutting alfalfa 78% complete, 79% 1986. Second cutting alfalfa 15% complete, 17% 1986. First cutting clover-timothy 64% complete, 66% 1986. Hay stands mostly good to fair. Feed from pastures average to below average. Activities: Planting corn, soybeans, vegetables; transplanting tobacco;

harvesting barley, hay, haylage, strawberries; weed, pest control; machinery maintenance; caring for livestock.

PUERTO RICO: Island average rainfall 1.62 in., 0.35 in. above normal. Highest weekly total rainfall 6.86 in. Pico Del Este-Luquillo followed by 4.79 in. Gurabo Aes, 4.38 in. Juncos. Highest 24-hour total 2.62 in. Maunabo. San Juan mean temperature 82°, 5° below normal. Total rainfall 0.73 in., 0.32 in. below normal. Divisional temperature averaged about 81° on coasts and 76 to 78° interior with mean station temperatures 67° Pico Del Este-Luquillo to 84° Fajardo.

SOUTH CAROLINA: Rainfall averaged 0.33 to 1.50 in. Several areas received more than 4.00 in. Temperatures averaged upper 70s, low 80s.

Days suitable for fieldwork 4.4. Soil moisture 26% short, 66% adequate, 8% surplus. Cotton 66% squaring, 54% 1986, 59% avg.; 2% poor, 14% fair, 84% good. Soybeans 79% planted, 78% 1986, 78% avg.; 2% poor, 26% fair, 72% good. Tobacco good; 8% topped, 24% 1986, 32% avg. Corn fair to good; 27% silked, 63% 1986, 55% avg. Peanuts good. Small grain quality good, yields up. Barley, rye, wheat good, oats fair to good. Peach harvest slow 21%, 35% 1986, 22% avg. Pastures fair to good. Overall crops improved.

SOUTH DAKOTA: Average temperatures 4 to 10° above normal. Extremes 37°, 100°. Variable rainfall ranged none to over 3.00 in.

Days suitable for fieldwork 5.6. Topsoil moisture short. Scattered critically short and adequate areas; 15% critically short, 49% short, 34% adequate, 2% surplus. Dry conditions spreading. No major crop losses reported due to dry conditions. Crops progressed ahead of normal pace. Grasshoppers showing up. Pasture growth slowed from dryness. Livestock good to excellent. Flies, mosquitoes, heat bothering livestock. Feed, stockwater supplies adequate.

TENNESSEE: Thunderstorms midweek, weekend. Precipitation above normal. Southeast heaviest rainfall. Temperatures 2 to 4° above normal.

Days suitable for fieldwork 3.1. Soil moisture 12% very short, 43% short, 44% adequate, 1% surplus. Corn 20% tasseling, 20% 1986, 11% avg. Corn 9% poor, 50% fair, 41% good. Tobacco 97% transplanted, 91% 1986, 93% avg. Spraying boll weevils. Tobacco 7% poor, 60% fair, 33% good. Wheat 93% ripe, 94% 1986, 85% avg.; 70% harvested, 50% 1986, 40% avg. Alfalfa 2nd cutting 50%, 50% 1986, 45% avg. Cattle mostly good; pastures mostly fair. Other activities: Double-cropped soybean planting; sorghum planting; baling straw; spraying boll weevils, weeds.

TEXAS: Enough moisture, instability continued early week, afternoon heating produced widely scattered thunderstorms mainly west, east, southern areas. Elsewhere, mostly fair skies prevailed much of week. Precipitation below normal, except east, along Upper Coast. Temperatures averaged normal, below normal south. Temperatures above normal Northern High Plains.

Crops: Corn benefited from recent moisture, producers welcomed open weather. Irrigation underway Plains. Some losses reported low lying areas central, Upper Coast. Fields rapid progress south, Coastal Bend. Fields denting. Yield prospects good most areas. Corn 26% doughing, 56% 1986, 49% avg.; 3% dented, 28% 1986, 25% avg.; none mature, 6% 1986, 3% avg. Grain sorghum fields good progress. Additional yellowing Blacklands. Fields heading Blacklands south, east. Many fields

June 23, 1987

turning color southern areas, some mature fields Rio Grande Valley. Some midge problems Valley. Some additional planting Plains. Sorghum 91% planted, 88% 1986, 91% avg.; 10% turning color, 40% 1986, 29% avg.; none mature, 12% 1986, 8% avg.; none harvested, 1% 1986, none avg. Cotton growth improved most areas with warmer, open conditions. Some planting, replanting occurred Plains. Most stands good. Some spraying insects Blacklands, east. Plants setting bolls central. Lower plant sets less than upper plant sets because of rain. Some boll drop Valley, Coastal Bend. Most areas later than normal; 9% setting bolls, 8% 1986, 7% avg. Small grain harvest best progress several weeks. High Plains, harvest began, good progress all week. Early test weights fair to good. Harvest full swing Low Plains, Cross-Timbers. Heavy incidence sprouting lowered yields these areas. Harvest intermittent Blacklands. Remaining fields central suffered heavy losses sprouting, lodging. Wheat 99% turning color, 100% 1986, 96% avg. Rice started heading Upper Coast; fertilization continued. Rice none turning color, 1% 1986, none avg. Soybean planting increased Plains. Planting to replace damaged cotton increased. Most stands good. Upper Coast, many fields damaged by water. Some replanting occurred. Peanut planting increased Cross-Timbers. Prospects good. Planting slow central. Other crops planted: Peanuts 52%, 60% 1986, 69% avg. Soybeans 65%, 69% 1986, 72% avg. Sunflowers 48%, 62% 1986, 73% avg. Other crops harvested: Oats 46%, 56% 1986, 65% avg.

Commercial Vegetables: Rio Grande Valley, tomato, pepper harvest resumed. Most citrus groves good sets. Fruit sizing rapidly because of rain. San Antonio-Winter Garden harvest onions, vegetables resumed, lower yields, quality. Heavy losses continued. Trans-Pecos onion harvest began. Cantaloups, tomatoes good. East growth, development most vegetables good. Supplies to local markets good. High Plains potatoes look good. Onions irrigated. Harvest onions, potatoes began Knox-Haskell.

Range and Pasture: Hay harvesting active drier areas. Yields, quality good. Growth grasses good, continued to improve. Livestock good; hornflies, mosquitoes increased because of recent rains. Markets suffered.

UTAH: Precipitation none to light. Temperatures 3 to 6° above normal.

Days suitable fieldwork 6.5. Soil moisture 65% short, 35% adequate. Winter wheat 28% turned color, 61% 1986, 4% avg. Barley 65% headed, 79% 1986, 51% avg.; 11% turned, 40% 1986, 6% avg. Spring wheat 69% headed, 72% 1986, 40% avg.; 8% turned, 29% 1986, 6% avg. Oats 75% booted, 64% 1986, 41% avg.; 32% headed, 23% 1986, 16% avg. Corn 19 in. high, 11 in. 1986, 7 in. avg.; 44% fair, 56% good. Grass hay cutting well along. First cutting alfalfa complete, 2nd cutting started south. Apples good, tart cherries good. Range feed 7% poor, 40% fair, 40% good, 13% excellent. Cattle, sheep generally good. Major farm activities: Hay harvest, cultivating corn, summer fallow, irrigating.

VIRGINIA: Hot, humid. Widely scattered thunderstorms. Temperatures averaged 4° above normal, ranging 56 to 95°. Rainfall ranged from none to 1.50 in. Many areas received very little rain.

Days suitable for fieldwork 5.6. Topsoil moisture 58% short, 42% adequate. Good planting progress in dry weather, but some crops stressed by dry spell. Corn good to excellent. Cultivated crop. Early corn just beginning to silk. Soybeans

67% planted, 70% 1986, 73% avg.; good to excellent. Peanuts excellent, but planted late. Tobacco good to excellent. Cultivated flue-cured tobacco. Burley 96% transplanted, 84% 1986, 92% avg. Barley harvest 70% complete, 79% 1986, 77% avg. Oats 38% harvested, 47% 1986, 42% avg. Wheat 20% harvested, 48% 1986, 41% avg. Irrigated potatoes, other vegetables. Potato harvest just beginning. Hay cutting active, good yields. Some over mature hay, thunderstorms delayed harvest some areas. Leafhopper problem in alfalfa. Livestock, pastures good to excellent.

WASHINGTON: Mild temperatures, scattered showers. Low temperatures upper 30s; high temperatures 90s. Precipitation normal. Cool, dry conditions southeast.

Soil moisture 10% short, 80% adequate, 10% surplus. Additional moisture helped crops continue rapid development. Winter wheat 99% headed, 93% 1986, 86% avg. Spring wheat 86% headed, barley 94% headed. Cereal grain crops mostly good. Alfalfa hay 1st cutting complete most areas. Potatoes good. Cherry harvest preceding central area with near adequate picking crews. Hand thinning of apples, pears delayed. Small fruit, poor return bloom possible result. Cherries Spokane County now ripening. Strawberry harvest west, final stages. Raspberry harvest began. Showers improved range, pasture conditions. Kittitas County livestock moved to higher pastures. Hay, roughage supplies continued adequate, surplus. Harvest of lettuce, radishes, spinach, bunching onions, oriental vegetables continued King, Pierce County. Vegetable seed crop harvest Grant County on going. Dry weather Thurston County caused vegetable growers to irrigate. Walla Walla County sweet onion harvest progressed.

WEST VIRGINIA: Average temperature 74°, 3 to 7° above normal. Extremes 52° Elkins, Gary; 97° Romney. Precipitation averaged 1.10 in; below normal southern, northwestern; above normal elsewhere.

Days suitable for fieldwork 5.0. Soil moisture 18% very short, 24% short, 55% adequate, 3% surplus. Wheat, barley, corn good to fair. Oats mostly good to fair; excellent few areas. Tobacco fair, 90% set. Corn 96% emerged. Hay, pasture good to fair. Feed supplies adequate. Farm activities: Harvesting hay, spraying, setting tobacco, farm maintenance.

WISCONSIN: Temperatures averaged 74°, 6° above normal. Extremes 43°; 100°. Record highs midweek. Rainfall 0.20 to 0.80 in. More rain needed.

Days suitable for fieldwork 6.0. Soil moisture 89% short, 11% adequate. Crops 1% very poor, 3% poor, 29% fair, 63% good, 4% excellent. Some corn leaves rolling. Average corn height 22 in., 13 in. 1986, 10 in. avg. Soybeans 94% planted, 94% 1986, 96% avg. First crop hay 81% cut, 74% 1986, 60% avg. Yields below average. Regrowth slow. Oats 63% headed, 43% 1986, 22% avg. Shorter than normal at heading. Peas, tobacco hurt by hot, dry weather. Strawberry crop good.

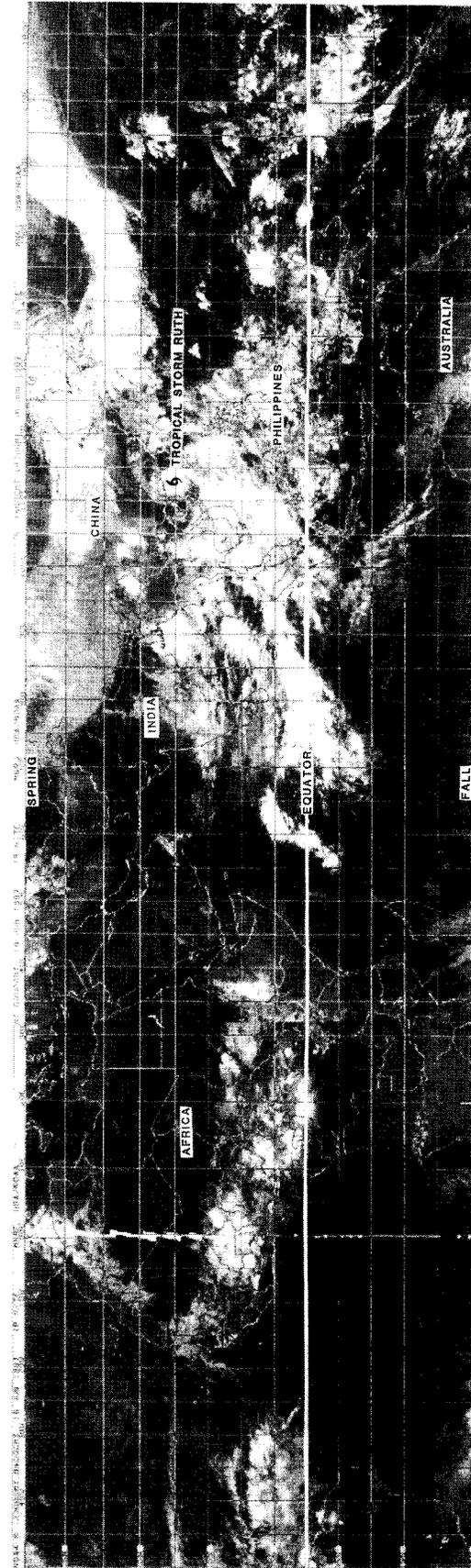
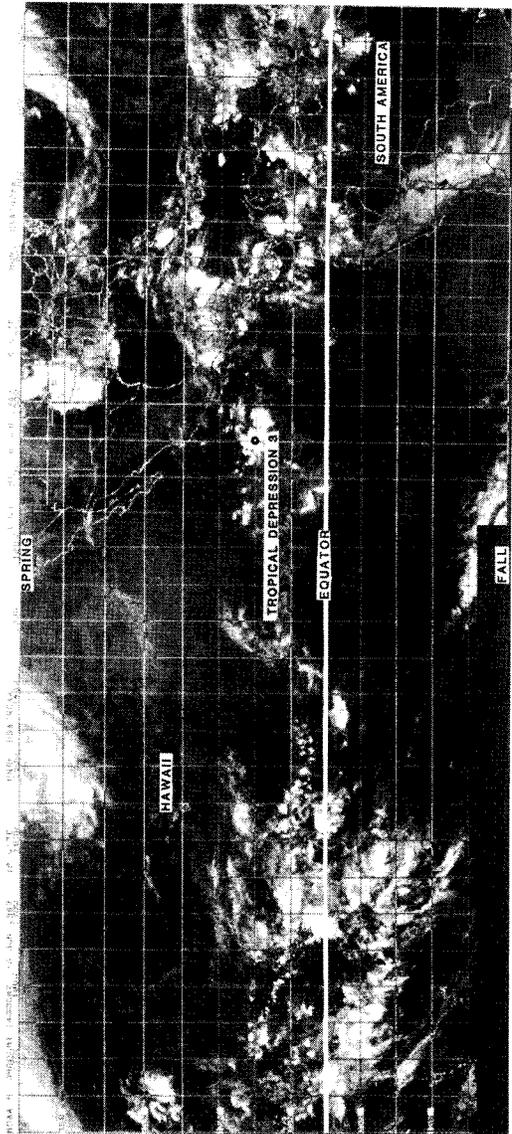
WYOMING: Temperatures above normal. Precipitation below normal.

Days suitable for fieldwork 6.0. Topsoil moisture 19% short, 78% adequate, 3% surplus. Subsoil moisture 3% short, 94% adequate, 3% surplus. Winter wheat 5% jointed, 5% 1986; 20% boot, 20% 1986; 75% headed, 75% 1986, 65% avg. Barley 20% not jointed, 20% 1986; 15% jointed, 20% 1986; 35% boot, 35% 1986; 30% headed, 25% 1986, 25% avg. Spring wheat 10% not jointed, 15% 1986; 25% jointed, 35% 1986; 50% boot, 35% 1986; 15% headed,

(continued on backcover)

Global Weather Satellite Image

June 18, 1987



International Weather and Crop Summary

June 14-20, 1987

HIGHLIGHTS:

UNITED STATES ... Rain hampers small grain harvest but alleviates much of the dryness. Scattered showers promote crop growth in the Corn Belt and central Great Plains. Dry conditions concern most farmers in the northern Great Plains and northern Corn Belt.

U.S.S.R. ... Weather conditions continue beneficial for winter wheat in the heading and flowering stages. Persistent hot, dry weather stresses spring wheat in western areas.

EUROPE ... Moisture conditions favor heading to filling wheat throughout Europe. Moisture may be limited, however, for crops in some southeastern areas.

SOUTH ASIA ... Showers promote planting in summer crop areas of southern and central India. Vegetative rice progresses normally.

SOUTHEAST ASIA ... Showers benefit vegetative to reproductive corn and rice in most major grain areas of Thailand and the Philippines.

EASTERN ASIA ... Occasional showers benefit rice in the Yangtze Valley. Tropical cyclone Ruth produces moderate to heavy rain over Guangxi and Guangdong rice areas.

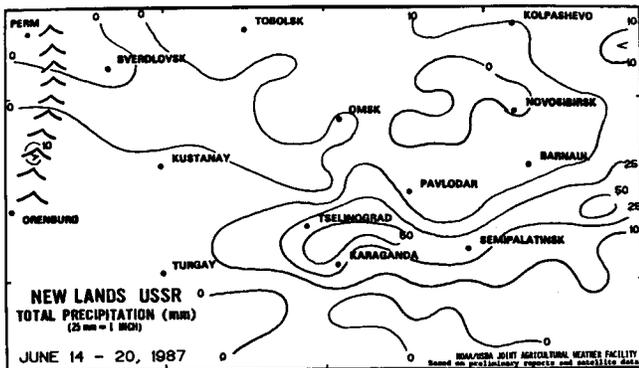
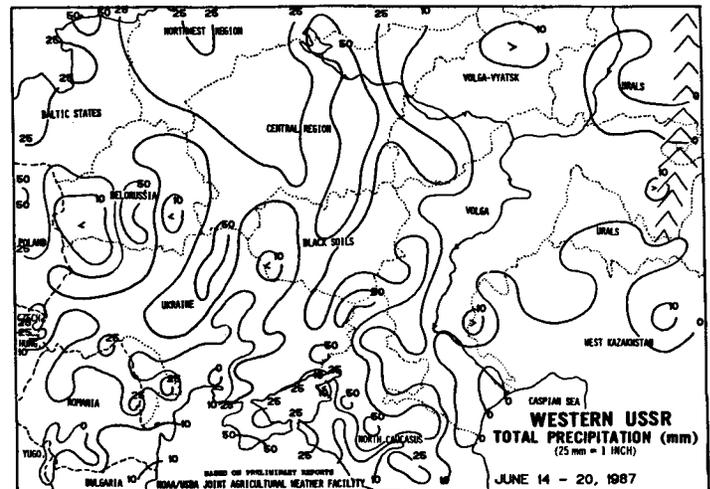
SOUTH AMERICA ... Early-week showers keep Brazil's southern coffee wet, but cool dry air moves into Brazil by midweek and persists over Argentina throughout the period.

AUSTRALIA ... Showers benefit emerging and vegetative winter wheat in most major grain areas.

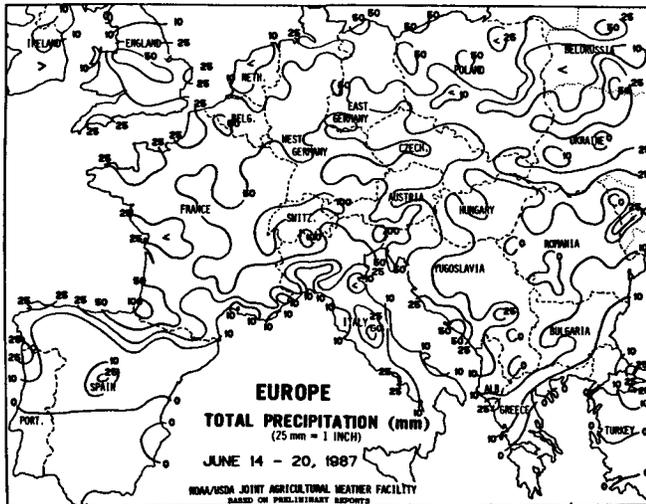
MEXICO ... Showers benefit Southern Plateau corn.

CANADA ... Early-week hot weather increases crop stress but scattered showers and cooler air bring some relief by midweek.

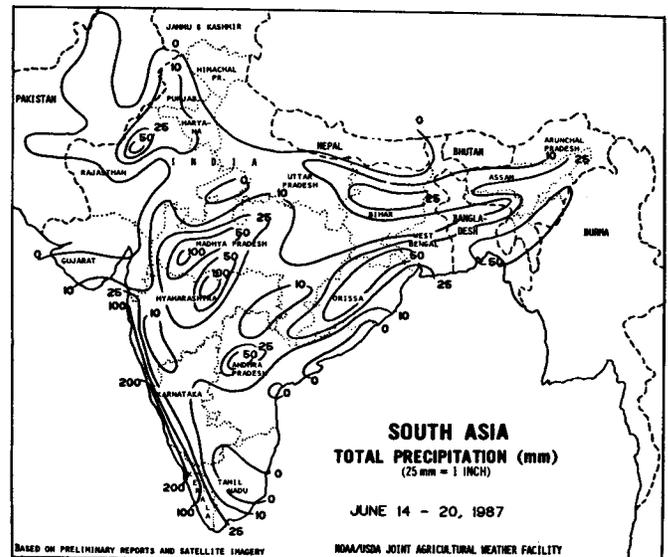
U.S.S.R. ... In Western U.S.S.R., a cold front moved slowly eastward, producing varying amounts of precipitation. Highest rainfall amounts (40-70mm) covered crop areas in central Belorussia, the north-central and eastern Ukraine, the western North Caucasus, and the eastern portion of the Central Region. Dry weather continued in a narrow band stretching northward through the south-central Ukraine. As the cold front reached the Volga it became stationary. As a consequence, unseasonably warm, dry weather ahead of the front continued over the central and eastern Volga and the southern Urals. By week's end, moderate winds (15-20 knots) were reported at many locations in these areas, increasing evaporation rates. Overall, weather conditions continued mostly favorable for winter grains in the heading and flowering stages in the south and approaching the heading stage in the north. The persistent hot, dry weather over the eastern half of the Volga and southern Urals reduced soil moisture and stressed spring grains in the vegetative stage.



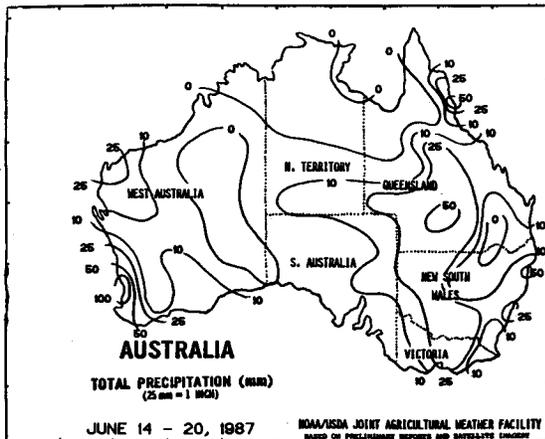
In the New Lands, a cool, high pressure system from the north covered much of the region. Dry weather over the western portion of the region continued the pattern which began in mid-May. A storm system developed over south-central areas, producing wet weather (20-71mm) over marginal spring wheat producing areas from Tselinograd and Karaganda, eastward through Semipalatinsk. By week's end, a warming trend began in the west.



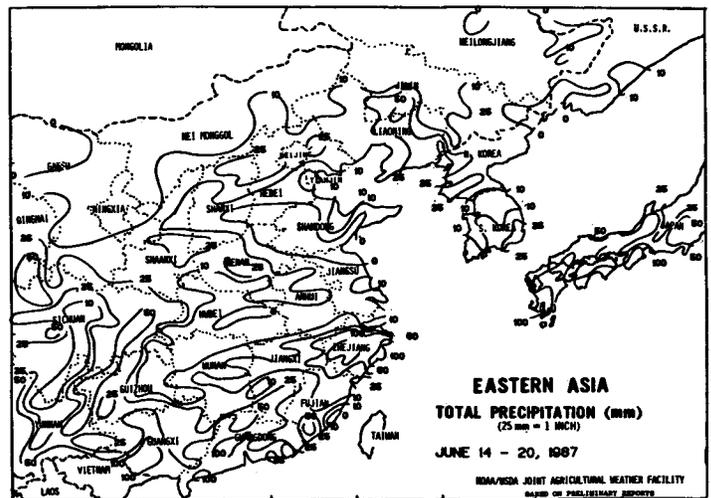
EUROPE ... Moderate to heavy showers (25-127mm) covered southern England, France, Belgium, West Germany, East Germany, Czechoslovakia, and Austria, maintaining favorable moisture for heading to filling winter wheat and improving conditions for vegetative French corn. Mostly dry, warm weather continued in the Iberian Peninsula. Moderate to heavy showers (25-more than 50mm) benefited heading wheat in Italy's Po Valley but delayed harvesting further south. Mostly light rain (less than 25mm) in Poland benefited wheat in or nearing the heading stage of development. Dry weather (less than 10mm) accompanied above-normal temperatures in Hungary, Romania, and Yugoslavia. Recent weeks of dry weather in the southeast favored summer crop planting, following wet weather in May. Moisture may be limited, however, in some areas for emerging summer crops and filling wheat.



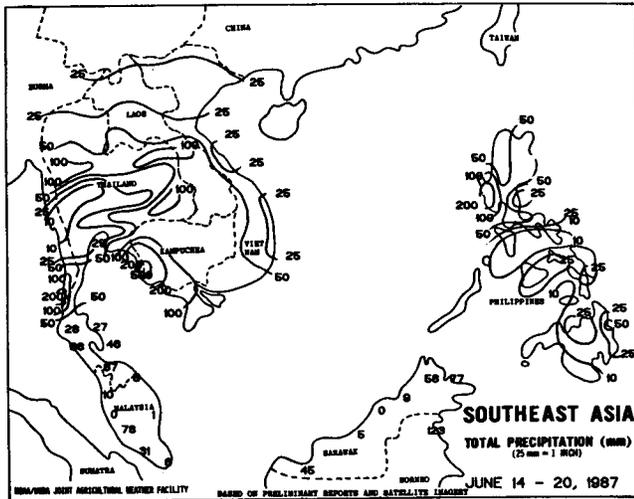
SOUTH ASIA ... Moderate to heavy showers (25-102mm) in Maharashtra, Madhya Pradesh, Andhra Pradesh, and Karnataka benefited vegetative rice and prompted an increase in cotton and groundnut planting. Heavy showers (150-265mm), however, continued along India's southwest coast, flooding some already wet areas. Showers (10-75mm) spread from Orissa and Bihar eastward through Bangladesh, maintaining favorable moisture levels for vegetative rice. Light rain covered crop areas in northern Pakistan and northern India.



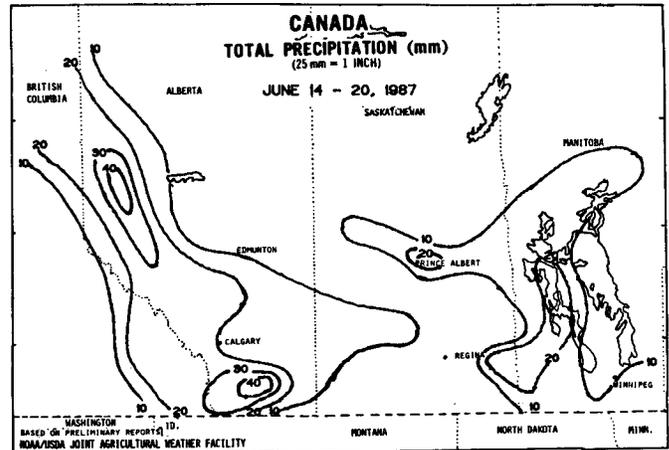
AUSTRALIA ... Light to moderate showers (8-39mm) in South Australia, Victoria, and southern New South Wales maintained adequate moisture for emerging and early vegetative wheat. Dry conditions continued in northern New South Wales and southeastern Queensland, where moisture is insufficient for emergence and planting has likely been suspended. Moderate to heavy showers (10-55mm), however, benefited pastures in south-central Queensland. Variable showers (8-50mm) in Western Australia's grain areas maintained favorable conditions for vegetative wheat. Rainfall averaged more than 25mm in sugarcane areas along Queensland's coast.



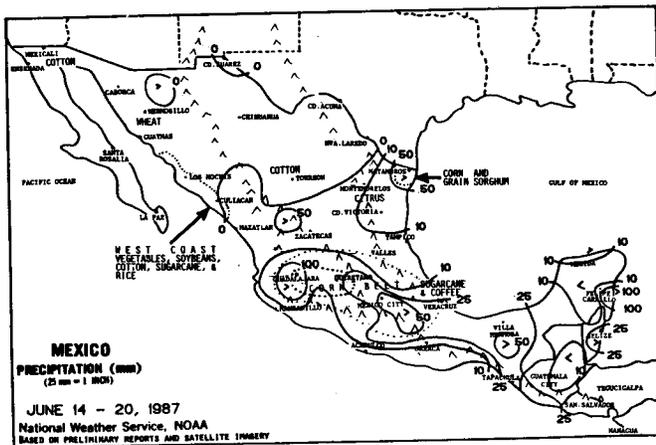
EASTERN ASIA ... Dry weather covered southern Hebei, Shandong, Anhui, and Jiangsu, benefiting wheat maturation. Early week wet weather in Jilin and Liaoning benefited corn and soybeans. Dry weather covered crop areas in Heilongjiang. Occasional showers fell over the Yangtze River Valley, maintaining adequate moisture for intermediate rice in the heading stage. In southern China, tropical cyclone Ruth produced moderate to occasional heavy rains over rice in Guangxi and Guangdong from June 18 through June 20. Precipitation amounts ranged from 50 to 100mm with isolated locations receiving rainfall in excess of 100mm. Flooding was likely in southwestern Guangxi and central Guangdong where rainfall was the heaviest.



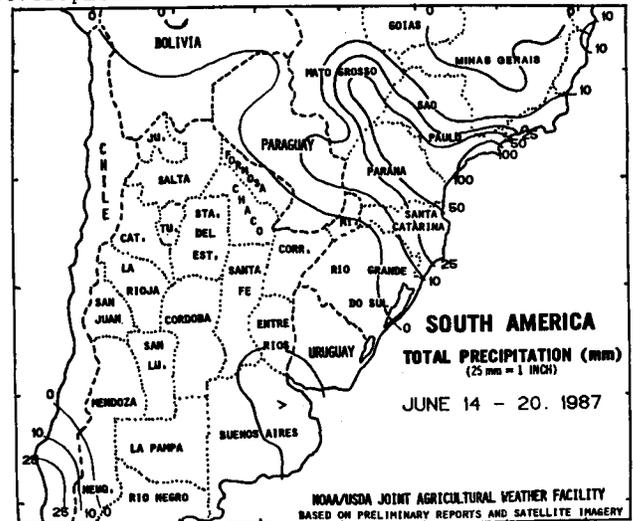
SOUTHEAST ASIA ... Moderate to heavy showers (25-132mm) continued in Thailand's rainfed crop areas, benefiting corn and rice in or near the reproductive stage of development. Light rain (6-25mm), however, returned to westernmost corn regions of central Thailand. Moderate to heavy showers (25 to more than 100mm) covered southern Laos and Kampuchea as mostly light rain (less than 25mm) persisted in northern Laos and Vietnam. In the Philippines, wet weather continued in the major crop areas of Luzon and Mindanao, with flooding likely in western Luzon following 2 weeks of rainfall averaging more than 200mm. Dry weather (less than 10mm), however, persisted in sugar regions of the central islands. Generally dry weather persisted in Malaysia and Indonesia.



CANADA ... Showers and thunderstorms provided some beneficial rain (10-43mm) to moisture-deficient crop areas in Alberta, west-central Saskatchewan and Manitoba. Rainfall averaged less than 10mm over northern and extreme southeastern crop areas of Alberta and a large portion of Saskatchewan's grain belt. Unfavorable hot weather early in the week pushed maximum temperatures into the mid-30's (C). Weekly temperatures averaged 3-7 degrees (C) above normal. Heat stress and limited moisture in the southern prairies caused some crop deterioration for cereals and oilseeds in vegetative growth. The recent, variable rainfall and somewhat cooler weather by midweek helped to ease stress conditions but crops will soon be advancing into the reproductive phase of development.



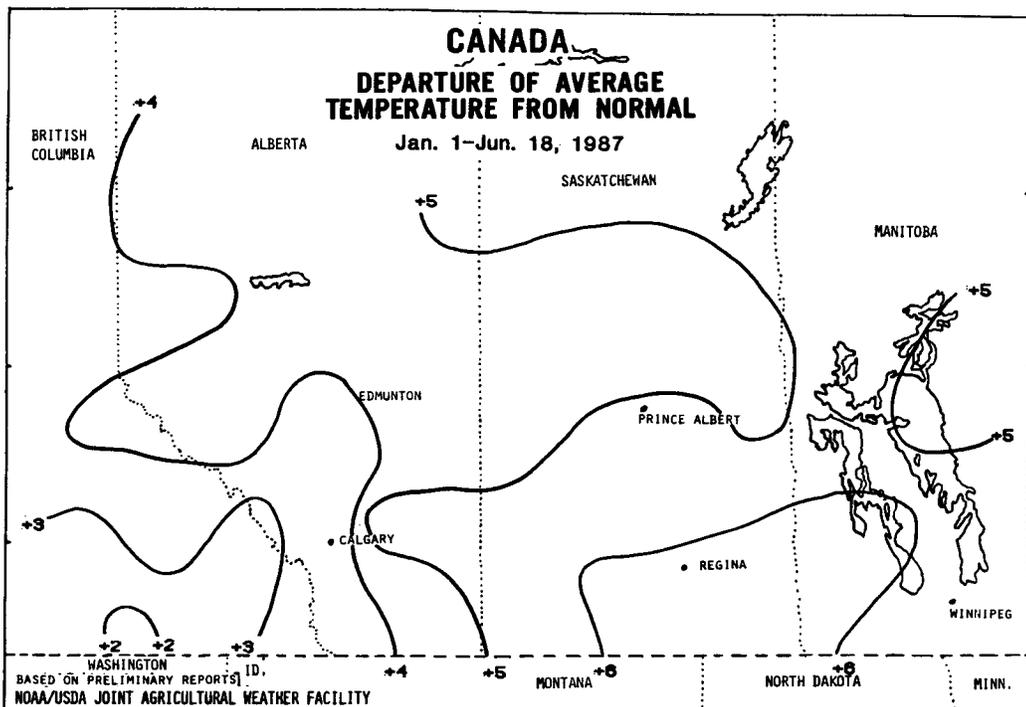
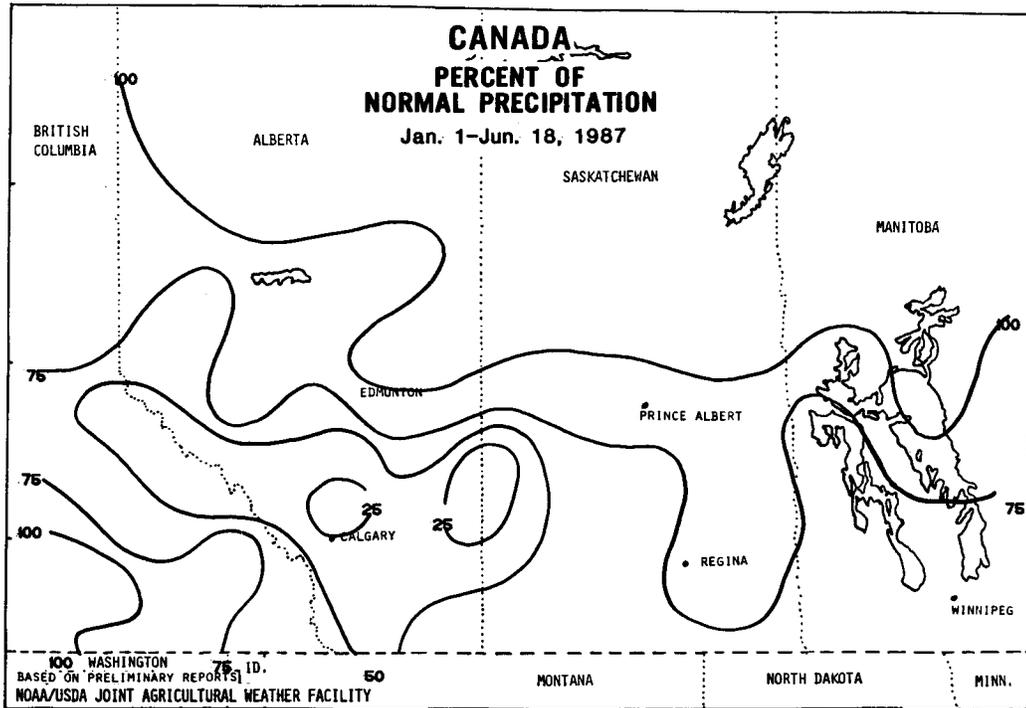
MEXICO ... Above-average weekly rainfall was confined mostly to the Southern Plateau corn belt, benefiting vegetative growth and grainfilling. Showers produced 10-38mm over the entire corn belt, while 100-158mm fell in the far western portion and 50-57mm covered the southeastern end of the major corn-growing area. Widespread showers produced variable, but mostly below average, rainfall over southern Mexico. Beneficial rain also fell in the extreme northeast, promoting grain and vegetable growth. Mostly dry weather covered the north-central cotton and rangeland areas. Sunny skies also prevailed along the west coast.



SOUTH AMERICA ... In Brazil, early-week showers produced 50 to nearly 100mm of rain in the northeastern half of Parana, southeastern Mato Grosso do Sul and extreme southern Sao Paulo. Sunny skies later in the week improved field conditions for the coffee harvest. Moisture should be adequate to abundant for Brazil's wheat development. Mostly dry weather prevailed in Minas Gerais, Rio Grande do Sul, and most all of Argentina's crop areas. Light showers produced insignificant amounts of rain in eastern Buenos Aires. The summer crop harvests are virtually complete in Argentina, favored by the dryness. However, early winter grain planting has been slowed by dry topsoils. Cold air covered the region, bringing frost as far north as central Parana in Brazil. No damaging cold occurred in the coffee belt, and the cold air mass moderated by week's end.

DRY WEATHER IN CANADA'S SOUTHWESTERN PRAIRIES

Canada's southwestern prairies have been very dry, receiving less than 50 percent of normal precipitation from January 1 to June 18, 1987. Temperatures over all of western Canada have been much above normal for the same period. This warm anomaly often appears during an El Nino event which occurred this past winter (Weekly Weather and Crop Bulletin, May 19, 1987, Vol. 74, No. 20).



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(continued from p.25)

35% jointed, 35% 1986; 35% boot, 25% 1986; 5% headed, 5% 1986, 5% avg. Potatoes 75% emerged, 85% 1986. Dry beans 85% emerged, 85% 1986. Sugarbeets 65% thinned, 75% 1986, 75% avg. Alfalfa 1st

15% 1986, 15% avg. Oats 25% not jointed, 35% 1986; cutting 35% complete, 20% 1986, 15% avg. Other hay 10% complete, 5% 1986, 5% avg. Livestock moved to summer ranges: 90% cattle, 80% 1986; 85% sheep, 75% 1986.

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