

WEEKLY WEATHER AND CROP BULLETIN

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

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

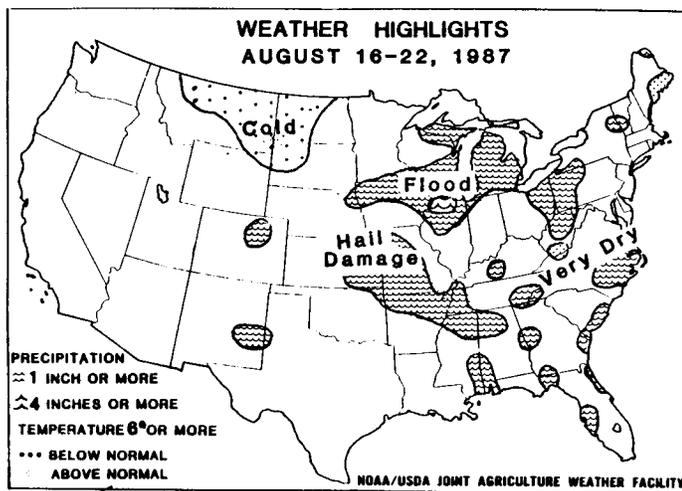
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Aug. 25, 1987

National Weather Summary

August 16 to 22, 1987



HIGHLIGHTS: Most precipitation was east of the Great Plains. Heavy thundershowers reached from Iowa through the southern Great Lakes and from the upper Ohio Valley into western Pennsylvania. Heavy showers also reached from eastern Kansas to northern Alabama and Mississippi. Above-normal temperatures reached from the central Plains through the Ohio Valley to New England. However, at week's end cooler air pushed to the Southern States. The northern Plains and upper Mississippi Valley were cooler than normal.

SUNDAY...Thunderstorms ranged from mild to severe along a line from northwestern Texas to Lake Michigan and southern Wisconsin. Severe weather was at the southern and northern ends of the line. Scattered mild thundershowers reached from the central Midwest to central Maryland and through the southern Appalachians and Piedmont to the Southeast.

MONDAY...Mild to moderate thundershowers covered the central and northern Great Plains, through the Great Lakes to northern New England, and from the central Ohio Valley and Tennessee Valley to the Southeast. Temperatures were in the sixties down the Appalachians in the early morning. Afternoon highs exceeded 90°F from New England to the lower Appalachians, across the South, and through the central Plains.

TUESDAY...Generally light thundershowers reached from eastern Kansas to the central Gulf of Mexico coast, northeastward to Virginia, the Mississippi Valley, and the Great Lakes region. Showers were light, but isolated moderate to severe thunderstorms were in these areas.

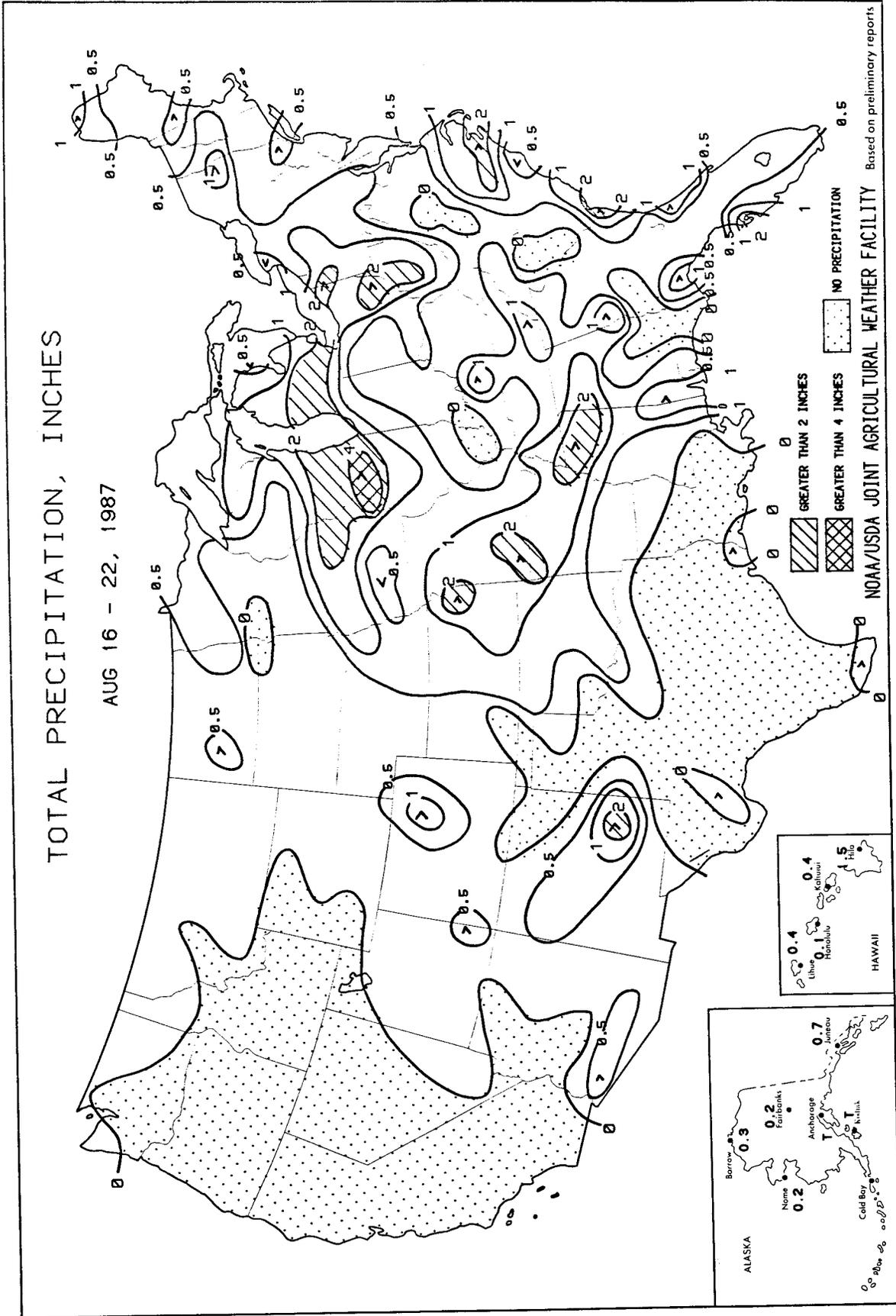
WEDNESDAY...Precipitation was scarce through the Nation. A line of thunderstorms reached from the eastern Dakotas to central Arkansas. Severe weather occurred from eastern Nebraska to central Arkansas. East coast storms were light to moderate from Georgia to New England and New York.

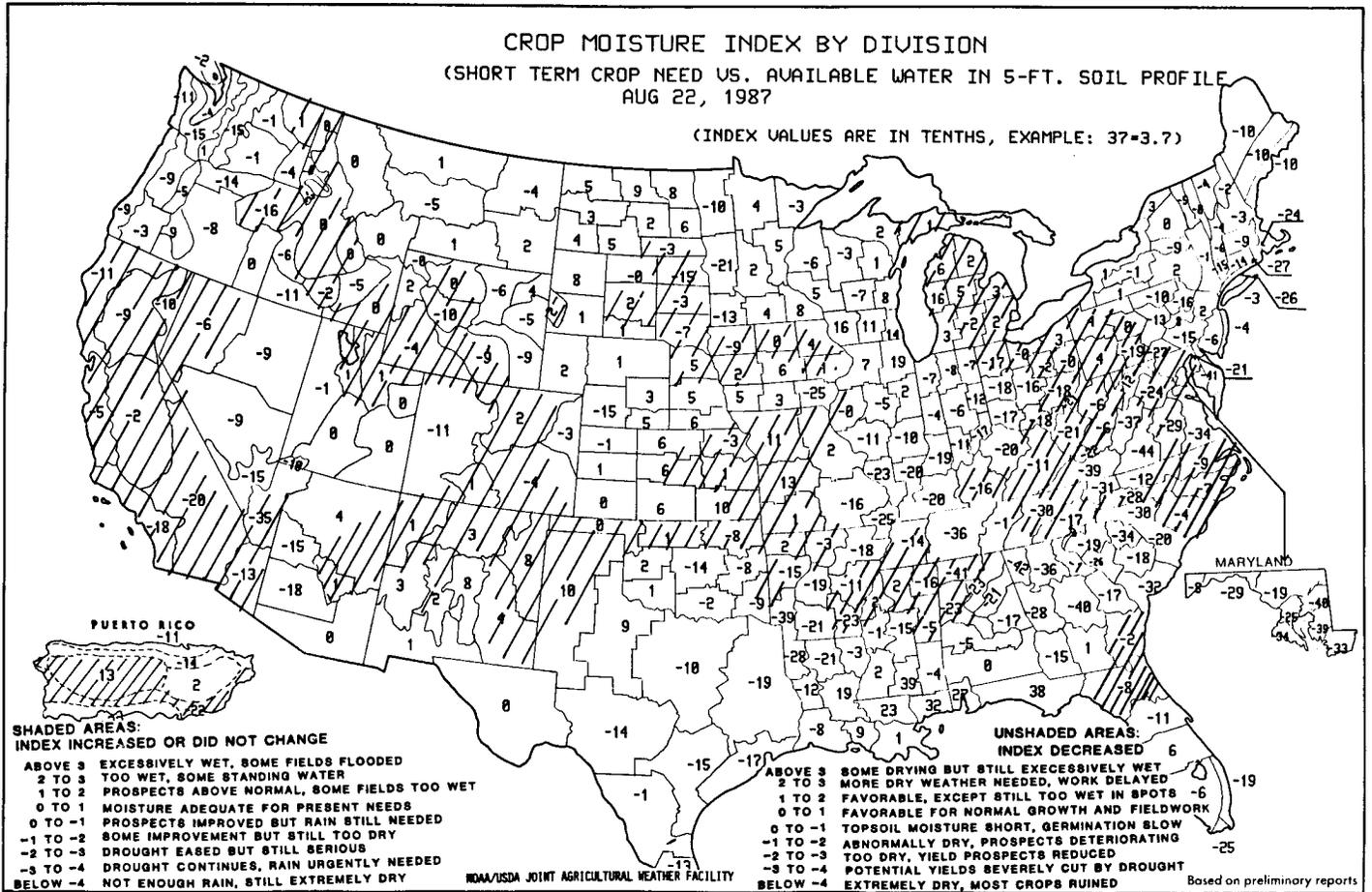
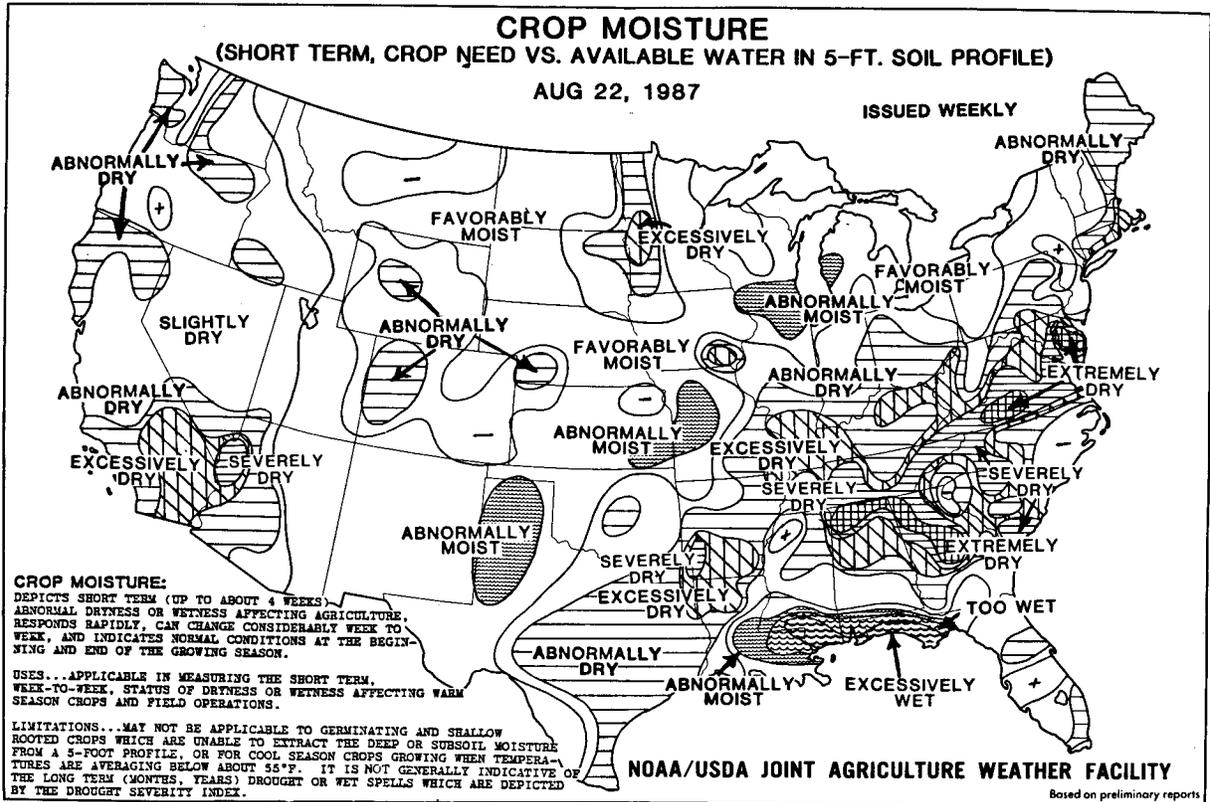
THURSDAY...Thundershowers were widespread from the Dakotas through the lower Missouri Valley, to the upper Mississippi Valley, and the Great Lakes region. Severe weather occurred in eastern Iowa and northern Illinois. Scattered thunderstorms covered the Southwest. Warm weather covered the east coast south of the mid-Atlantic States, across the South, through the central Great Plains, and to the west part of the northern Plains.

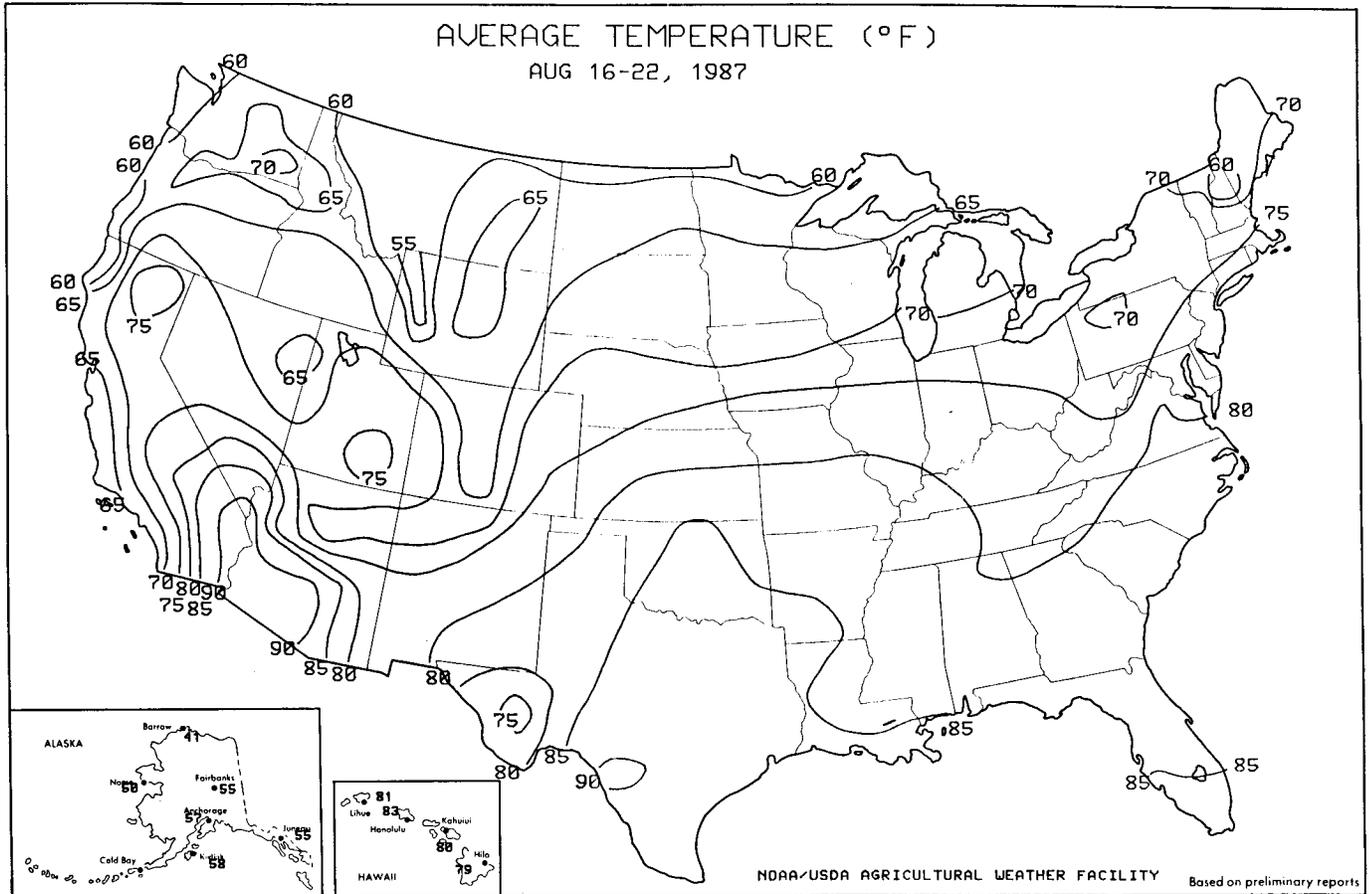
FRIDAY...Scattered thundershowers reached from the Southwest to southern Montana and eastward through the Great Lakes to central New York, and from the central Ohio Valley into Pennsylvania. Severe weather reached from southwestern Michigan to northwestern Pennsylvania. Hot weather spread from the central and northern Plains to Illinois.

SATURDAY...Widespread thunderstorms covered the central and southern Rockies and across the central Plains. Moderate and severe thunderstorms reached from the central Appalachians to the eastern Great Lakes and eastward to the northeastern coast. Cooler air moved southward, but hot weather continued from the Ohio Valley southward and across the South.

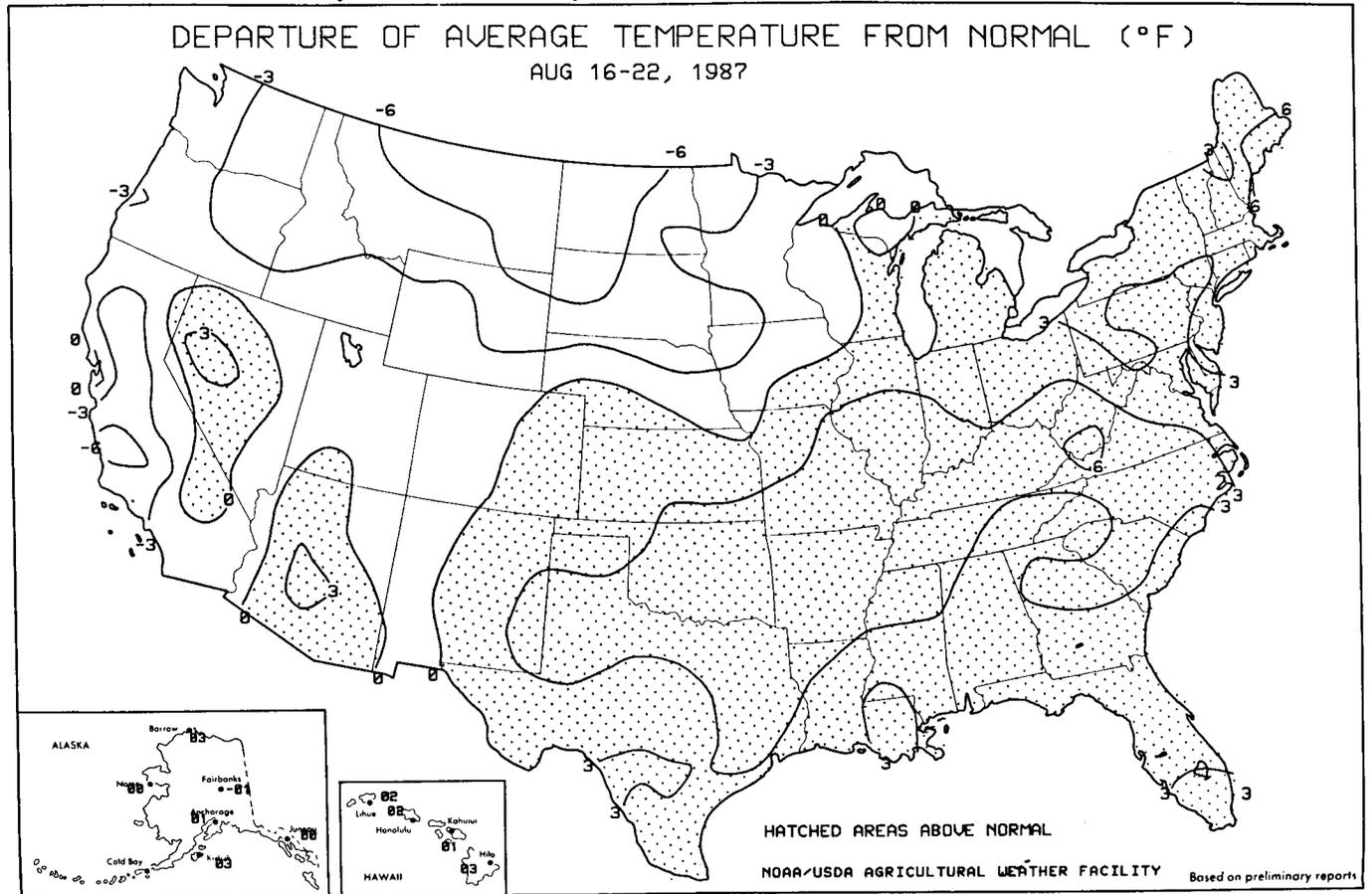
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Point values may differ on these computerized maps from the reported values in the tables.



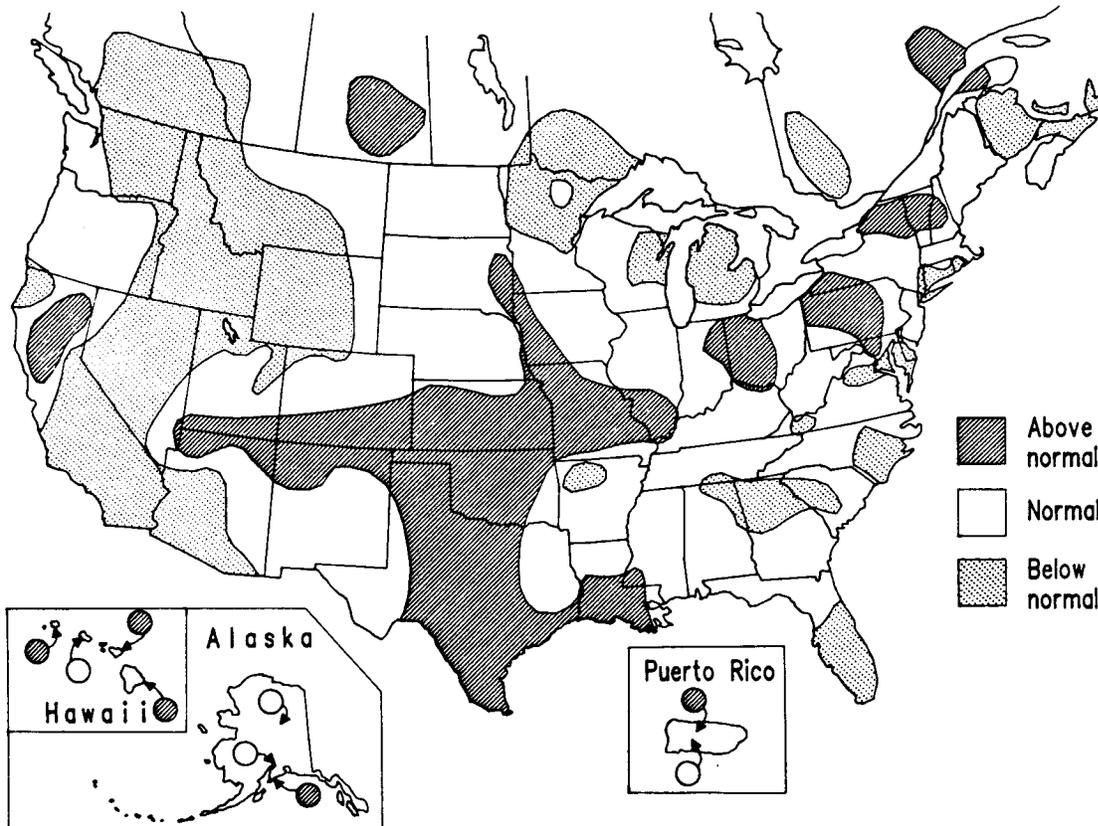
National Water Conditions

UNITED STATES
Department of the Interior
Geological Survey

CANADA
Department of the Environment
Water Resources Branch

JULY 1987

STREAMFLOW DURING JULY



Heavy rains of 4-6 inches in 24 hours on July 1-2 caused flooding, which resulted in estimated damages of \$30 million in north-central Ohio. No record-high peak discharges were reported, but the Olentangy River at Claridon, Ohio (drainage area 157 square miles) peaked at 13,700 cubic feet per second (c.f.s.) on July 3, about 1.5 times the discharge for the 100-year flood but 1,200 c.f.s. less than the January 1959 peak of record. In Minneapolis, Minnesota, where precipitation had been below normal through mid-July, 8.96 inches of rain fell in 24 hours on July 23-24, exceeding the 100-year 24-hour rainfall by about 3 inches. Total precipitation for the week ending July 25 was 14.49 inches, double that recorded January 1-July 18, 1987. Two people were killed, many highways were flooded for days, and high winds or tornadoes damaged at least 50 homes. Peak discharges on several streams in the area were estimated to have exceeded peaks of record and the 100-year flood, but recurrence interval and discharge data were not available.

Streamflow was in the normal to above-normal range at about 69 percent of the 191 reporting index stations in southern Canada, the United States, and Puerto Rico, compared with the 58 percent in those ranges for June. Total July flow was only about 17,500 c.f.s. more than in July 1985, the lowest July in the 1983-87 period.

Mean July elevations for the Great Lakes (provisional National Ocean Service data) were lower than those for July 1986. The level of Utah's Great Salt Lake fell 0.50 foot during July, reaching 4,210.70 feet above National Geodetic Vertical Datum of 1929 on July 31. Contents of 78 percent of reporting reservoirs were near or above average for the end of July, compared with 81 percent for the end of June.

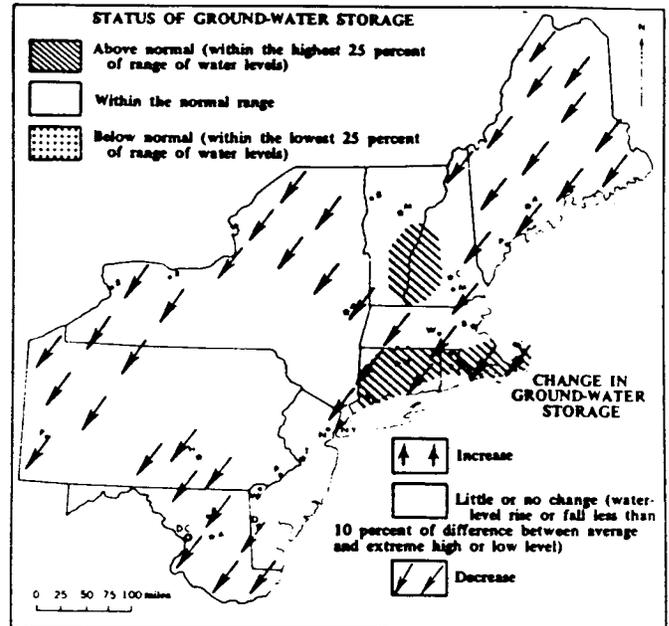
The combined flow of the three largest rivers in the lower 48 States--Mississippi, St. Lawrence, and Columbia--averaged a below-normal 875,900 c.f.s. during July, 9.5 percent below median and 17.7 percent below last month's flow.

Ground-water levels continued to decline seasonally in most of the Northeast, including New England (except parts of New Hampshire and Vermont), northern and western New York State, western and south-central Pennsylvania, and in Maryland and Delaware. (See map). Elsewhere in the region, water-level changes were mixed. Levels near the end of July remained above average in southeastern Massachusetts and in much of Connecticut and Rhode Island. Levels were also above average in parts of New Hampshire and Vermont. Elsewhere in the Northeast, levels were generally above or below average for this time of year.

In the Southeastern States, water-level changes were mixed in West Virginia and Kentucky, declined in Virginia, North Carolina, Arkansas, Louisiana, Mississippi, and Florida, and declined in all but one observation well in Georgia. Ground-water level in the single active observation well in Montgomery, Alabama, rose but was below the long-term average. Water levels were above long-term averages in Kentucky, below average in Arkansas and Louisiana, and mixed with respect to average in West Virginia, Virginia, and North Carolina. A new low ground-water level for July was reached in the key well at Memphis in western Tennessee.

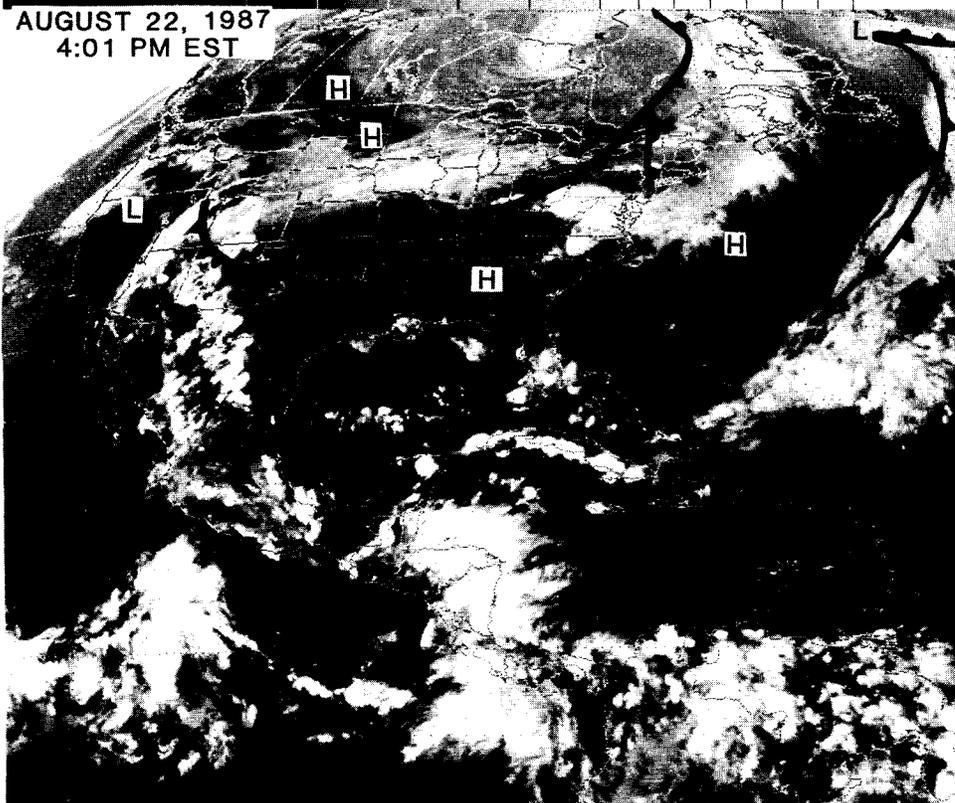
In the central and western Great Lakes States, ground-water levels declined in Minnesota, Wisconsin, and Michigan. Water-level changes were mixed in Iowa. Levels were about average in Wisconsin and Indiana, and below average in

Minnesota and Michigan. Levels were mixed with respect to average in Iowa.



Map showing ground-water storage near end of July and change in ground-water storage from end of June to end of July.

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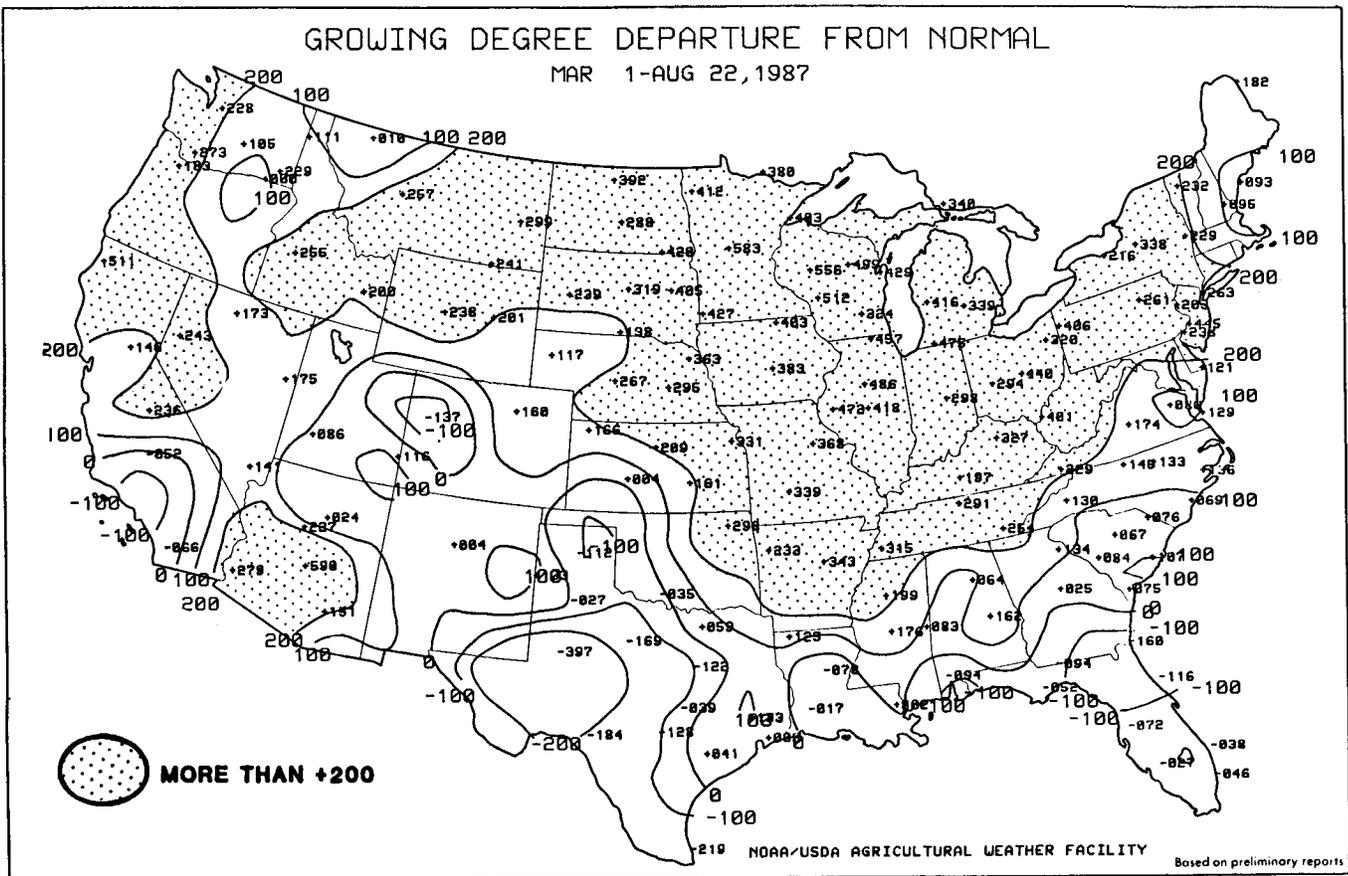
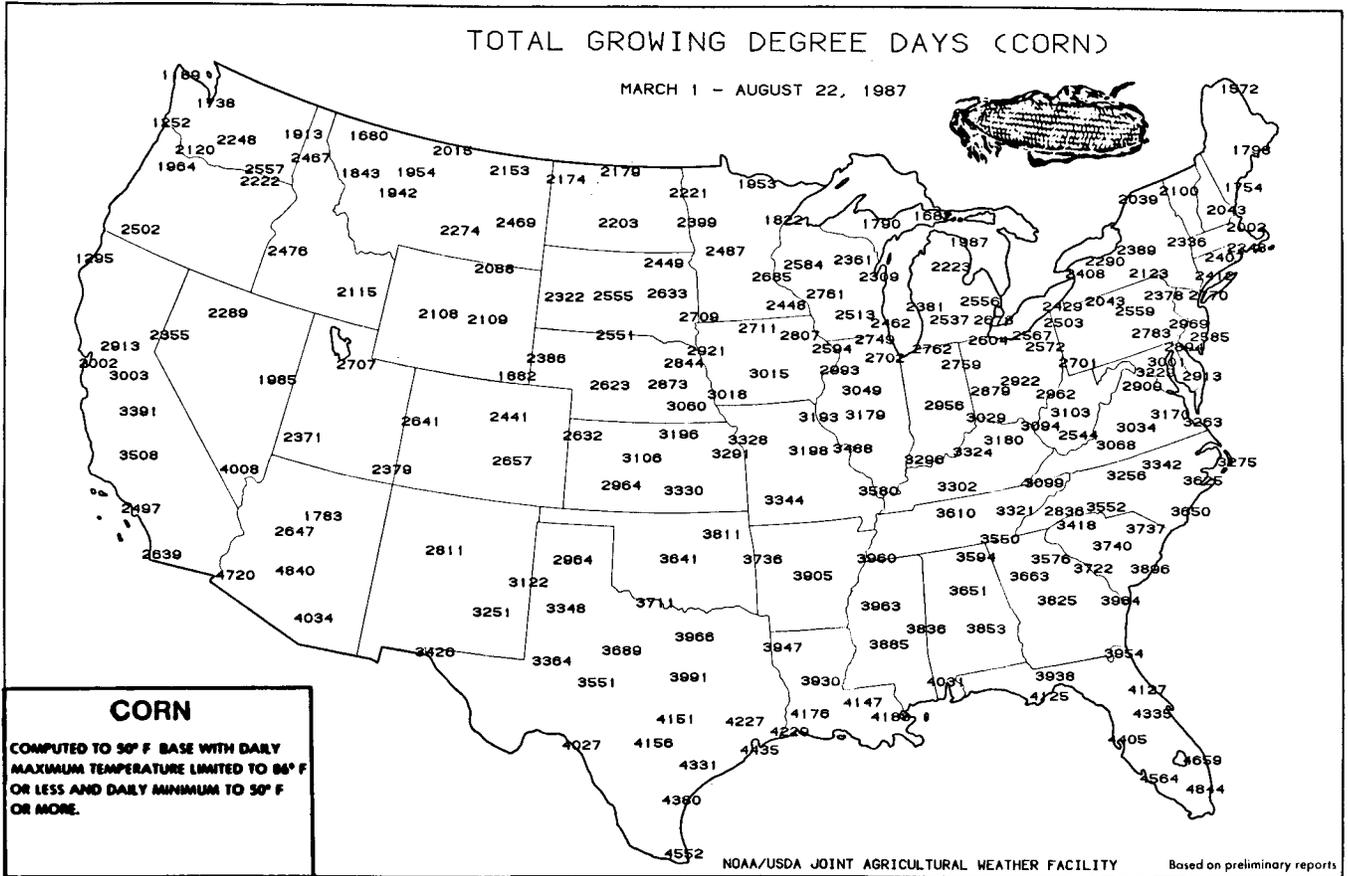


MONSOON FLOW OF MOISTURE INTO THE SOUTHWEST CAUSES RAIN FROM ARIZONA AND NEW MEXICO THROUGH UTAH AND COLORADO.

BADLY NEEDED PRECIPITATION FALLS FROM SHOWERS AND THUNDERSTORMS FROM WEST VIRGINIA INTO MARYLAND AND VIRGINIA.

BENEFICIAL RAIN FALLS ALONG THE SOUTHERN COAST OF CUBA.

EXTENSIVE SHOWERS OCCUR ALONG THE INTERTROPICAL CONVERGENCE ZONE (BOTTOM PART OF IMAGERY).



Weather Data for the Week Ending August 22, 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	TEMPERA- TURE °F		PRECIPI- TATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	93	68	97	62	81	1	1.4	.6	.9	9.2	78	29.7	79	94	43	6	0	2	2
MOBILE	93	74	97	72	84	2	1.5	.0	1.1	20.3	115	52.6	119	98	55	6	0	4	1
MONTGOMERY	96	70	100	69	83	2	T	-.7	T	12.7	40.0	120	96	40	7	0	0	0	0
AK ANCHORAGE	67	47	71	41	57	1	T	-.4	T	3.5	79	7.2	91	92	47	0	0	1	0
BARROW	47	36	53	32	41	3	.3	.1	.2	2.4	129	2.8	103	98	84	0	2	4	0
FAIRBANKS	64	45	69	39	55	-1	.2	-.2	.2	3.4	76	4.4	66	95	46	0	0	2	0
JUNEAU	62	47	67	43	55	0	.7	-.5	.3	9.7	92	24.2	88	94	66	0	0	3	0
KODIAK	68	48	73	42	58	3	T	-1.1	T	18.5	169	47.7	138	88	48	0	0	1	0
NOME	55	45	62	36	50	1	.2	-.6	.2	3.5	62	5.9	69	97	73	0	0	2	0
AZ PHOENIX	106	81	109	74	94	4	0	-.2	0	1.4	88	4.6	112	40	17	7	0	0	0
PRESCOTT	89	58	93	49	73	3	0	-.8	0	3.6	57	8.1	66	52	19	2	0	1	0
TUCSON	102	71	106	66	86	2	.7	-.2	.3	2.8	65	7.4	108	64	19	7	0	3	0
YUMA	104	79	108	76	92	-1	.5	.4	.2	7.7	-156	1.1	84	56	19	7	0	1	1
AR FORT SMITH	95	72	102	69	84	3	.9	-.2	.8	7.1	80	24.6	94	94	44	6	0	2	1
LITTLE ROCK	93	74	98	69	84	3	.6	-.1	.4	6.9	74	24.2	75	74	56	4	0	3	0
CA BAKERSFIELD	91	62	96	58	76	-6	0	0	0	.3	51.7	4.0	103	74	33	3	0	0	0
EUREKA	62	53	65	51	58	1	0	0	0	.5	61	17.9	80	89	73	0	0	0	0
FRESNO	90	61	99	59	76	-3	0	0	0	T	14	6.6	95	74	28	3	0	0	0
LOS ANGELES	73	60	77	58	66	-4	0	0	0	.2	21.3	3.0	36	93	60	0	0	0	0
REDDING	95	61	103	58	78	-3	0	0	0	-.2	16	19.3	77	70	19	7	0	0	0
SACRAMENTO	87	57	96	55	72	-3	0	0	0	T	20	8.8	83	82	32	2	0	0	0
SAN DIEGO	74	65	75	63	69	-3	0	0	0	T	33	5.1	82	82	66	0	0	0	0
SAN FRANCISCO	73	56	75	55	65	1	0	0	0	T	0	8.5	69	89	49	0	0	0	0
CO DENVER	88	57	98	51	72	1	1.0	.7	1.0	5.4	117	14.3	128	71	27	4	0	2	1
GRAND JUNCTION	89	60	94	53	74	-1	T	-.2	T	2.0	133	7.4	153	53	20	3	0	1	0
PUEBLO	91	57	102	54	74	0	T	-.4	T	2.2	51	7.0	88	72	21	5	0	1	0
CT BRIDGEPORT	85	69	91	60	77	4	.1	-.7	.1	5.8	65	21.7	83	85	47	2	0	1	0
HARTFORD	88	62	95	53	75	4	.4	-.5	.3	8.6	93	27.1	99	94	37	3	0	2	0
DC WASHINGTON	89	72	96	65	80	3	.4	-.6	.3	8.1	78	21.5	84	89	45	3	0	2	0
FL APALACHICOLA	91	75	93	74	83	2	T	-1.7	T	13.2	77	36.1	105	98	64	5	0	0	0
DAYTONA BEACH	92	73	95	70	83	2	1.2	-.3	1.2	11.5	70	31.1	102	97	55	5	0	2	1
JACKSONVILLE	93	72	95	68	83	1	.4	-1.4	.4	11.3	64	29.0	83	97	53	6	0	1	0
KEY WEST	91	80	92	76	86	1	1.1	0	.5	9.7	83	23.5	109	84	60	7	0	5	1
MIAMI	93	80	93	78	86	3	.4	-1.2	.4	13.5	68	26.3	74	84	53	7	0	3	0
ORLANDO	95	76	98	73	85	3	.4	-1.0	.4	17.3	87	33.5	98	92	46	6	0	1	0
TALLAHASSEE	92	72	96	69	82	1	1.4	-.3	1.2	27.8	135	56.4	125	99	53	6	0	3	1
TAMPA	93	76	95	74	85	2	2.0	.2	2.0	16.1	89	36.2	114	95	53	7	0	1	1
WEST PALM BEACH	93	77	94	75	85	2	.1	-1.2	.1	12.4	70	30.8	88	91	52	7	0	1	0
GA ATLANTA	92	72	96	70	82	4	T	-.7	T	14.9	141	36.0	105	87	39	7	0	1	0
AUGUSTA	96	71	99	66	84	4	T	-.9	T	10.2	92	32.9	106	97	40	7	0	0	0
MACON	96	71	98	67	83	2	0	-.8	0	7.0	64	28.6	89	97	40	7	0	0	0
SAVANNAH	93	75	96	71	84	3	.4	-1.1	.2	16.5	92	39.1	109	95	51	7	0	2	0
HI HILO	87	71	87	69	79	3	1.5	-.8	.6	34.5	156	77.6	96	94	58	0	0	6	1
HONOLULU	91	75	93	73	83	2	.1	0	.1	.9	60	3.5	25	84	49	5	0	1	0
KAHULUI	90	69	93	65	80	1	.4	.3	.4	.6	67	12.8	106	88	49	4	0	1	0
LIHUE	87	75	90	73	81	2	.4	0	.3	3.7	75	14.4	56	88	61	1	0	2	0
ID BOISE	85	51	93	46	68	-3	0	-.1	0	1.4	100	6.5	87	53	17	1	0	0	0
LEWISTON	85	53	92	49	69	-3	0	-.2	0	4.1	166	7.7	92	52	18	2	0	0	0
POCATELLO	84	49	91	39	66	-2	T	-.1	T	2.6	137	7.7	108	60	16	1	0	0	0
IL CHICAGO	84	61	91	55	73	1	3.7	2.9	2.9	20.5	204	29.2	130	94	54	1	0	3	2
MOLINE	86	62	94	57	74	2	4.4	3.5	3.6	12.2	103	21.5	84	95	48	2	0	4	2
PEORIA	87	65	96	58	76	3	1.1	.4	1.1	8.8	86	16.6	70	94	47	2	0	1	1
QUINCY	89	65	94	61	77	3	.8	-.1	.7	11.4	102	20.1	79	92	47	2	0	3	1
ROCKFORD	83	62	91	57	72	1	1.8	.9	.7	16.5	141	25.8	104	96	58	1	0	3	2
SPRINGFIELD	89	66	97	61	78	4	1.0	-.2	.9	10.5	111	18.0	77	94	44	3	0	2	1
IN EVANSVILLE	95	65	100	58	80	4	T	-.7	T	9.2	95	21.8	76	90	38	7	0	0	0
FORT WAYNE	86	62	93	56	74	2	.1	-.7	.1	10.0	107	19.6	84	88	41	1	0	1	0
INDIANAPOLIS	88	64	92	59	76	3	.3	-.4	.3	13.7	127	22.9	85	93	45	1	0	2	0
SOUTH BEND	83	63	94	56	73	2	.5	-.4	.3	8.5	82	19.6	79	92	48	1	0	4	0
IA DES MOINES	83	63	94	57	73	0	.4	-.5	.2	12.5	122	24.0	111	92	54	2	0	5	0
SIOUX CITY	79	59	90	53	69	-4	1.6	.9	.7	9.2	95	20.5	110	96	58	1	0	4	1
WATERLOO	81	59	90	53	70	0	2.3	1.5	1.4	15.0	129	23.4	101	96	56	1	0	3	2
KS CONCORDIA	90	66	102	58	78	1	.8	.1	.8	9.7	97	28.5	146	87	40	4	0	2	1
DODGE CITY	93	66	102	57	80	2	0	-.6	0	9.9	125	19.7	128	74	28	5	0	0	0
GOODLAND	91	60	104	54	75	2	.3	-.1	.3	8.8	135	16.6	135	80	26	4	0	1	0
TOPEKA	89	65	97	59	77	1	2.2	1.3	1.4	11.6	98	27.6	120	92	48	4	0	2	2
WICHITA	93	69	100	65	81	2	.4	-.2	.4	12.0	124	29.4	151	83	40	6	0	3	0
KY BOWLING GREEN	92	66	97	60	79	2	1.2	.4	1.2	13.2	117	29.1	86	95	43	4	0	1	1
LEXINGTON	92	65	97	59	79	4	0	-.9	0	13.5	112	25.6	80	86	36	6	0	0	0
LOUISVILLE	92	67	99	62	80	3	.5	-.3	.5	10.7	107	23.0	78	89	39	6	0	1	0
LA ALEXANDRIA	93	74	95	71	84	1	0	-.9	0	10.1	88	36.7	101	98	54	7	0	0	0
BATON ROUGE	94	76	96	74	85	4	T	-.1	T	22.4	161	49.1	128	94	52	7	0	0	0
LAKE CHARLES	95	76	97	74	85	4	0	-.2	0	21.6	164	42.6	126	96	51	7	0	0	0
NEW ORLEANS	94	75	96	74	85	3	.1	-1.3	.1	25.1	161	51.4	128	98	51	7	0	0	0

Based on 1951-80 normals.

Weather Data for the Week Ending August 22, 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		PRECIPI-TATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
SHREVEPORT	99	75	100	73	87	5	0	-0.5	0	8.9	101	27.5	93	92	37	7	0	0	0
ME CARIBOU	79	55	89	46	67	5	.8	-1.1	.4	8.4	83	17.1	77	99	51	0	0	4	0
PORTLAND	86	60	97	53	73	7	.5	-1.1	.4	8.9	113	27.4	105	90	39	3	0	2	0
MD BALTIMORE	88	68	95	58	78	3	.6	-0.5	.4	9.1	83	24.1	88	94	48	2	0	3	0
SALISBURY	88	67	95	59	78	3	.1	-1.2	.1	6.7	56	25.0	85	96	50	3	0	0	0
MA BOSTON	88	68	96	64	78	6	.1	-0.8	0	5.0	61	28.5	105	89	37	3	0	2	0
CHATHAM	78	65	82	63	72	4	.2	-0.7	.2	4.4	52	30.8	107	91	74	0	0	1	0
MI ALPENA	78	55	84	47	67	2	.5	-0.2	.4	8.6	102	14.3	77	98	53	0	0	3	0
DETROIT	84	63	94	55	74	3	2.5	1.8	2.0	13.5	154	23.2	112	92	43	1	0	4	1
FLINT	82	58	93	50	70	2	2.3	1.5	1.4	7.4	88	14.6	76	100	51	1	0	5	2
GRAND RAPIDS	79	60	85	53	69	-1	1.9	1.1	.7	13.9	158	19.5	91	100	54	0	0	5	2
HOUGHTON LAKE	76	59	82	51	68	3	1.7	.1	.6	9.0	111	14.0	78	92	50	0	0	4	1
LANSING	81	59	90	51	70	2	2.5	1.8	1.0	11.3	-132	16.5	86	96	48	1	0	5	2
MARQUETTE	74	50	85	42	62	-3	.7	-0.1	.4	10.3	127	21.6	114	96	54	0	0	5	0
MUSKOGON	77	63	79	54	70	1	3.4	2.7	3.3	10.1	143	19.2	100	93	57	0	0	3	1
SULT ST. MARIF	75	55	85	45	65	2	1.4	-0.6	.7	9.8	114	16.8	85	98	58	0	0	6	1
MN ALEXANDRIA	78	56	82	50	67	-1	1	-0.8	0	5.7	59	12.4	71	89	39	0	0	0	0
DULUTH	73	52	79	47	62	0	.2	-0.7	.1	7.8	72	13.5	68	96	51	0	0	3	0
INT'L FALLS	71	50	77	45	61	-2	.6	-0.1	.4	10.9	114	15.9	98	95	53	0	0	4	0
MINNEAPOLIS	77	60	82	54	68	-1	.3	-0.5	.3	23.2	228	26.7	143	90	49	0	0	2	0
ROCHESTER	77	56	82	49	67	-1	.9	-0.1	.8	13.2	130	18.4	95	97	55	0	0	2	1
MS GREENWOOD	95	72	98	69	84	3	.4	-0.2	.4	8.0	81	30.5	84	96	48	7	0	2	0
JACKSON	95	71	98	68	83	2	.1	-0.7	.1	11.1	107	37.6	106	100	48	7	0	1	0
MERIDIAN	94	69	96	67	82	1	1.8	1.1	1.0	11.5	102	42.2	114	100	48	7	0	2	2
MO CAPE GIRARDEAU	95	71	102	65	83	2	0	-0.8	0	13.2	135	25.3	84	89	44	5	0	0	0
COLUMBIA	91	67	97	61	79	2	.9	-0.2	.5	9.9	110	19.4	79	92	45	4	0	2	1
KANSAS CITY	89	66	95	60	78	2	1.0	-0.2	.8	11.2	98	24.1	99	90	49	4	0	3	1
SAINT LOUIS	92	71	101	65	81	4	.5	-0.1	.5	13.1	143	22.4	96	87	43	4	0	2	0
SPRINGFIELD	94	69	99	66	82	5	2.2	1.5	1.4	11.2	110	30.0	117	97	42	6	0	4	1
MT BILLINGS	78	52	92	48	65	-5	.1	-0.2	0	4.2	117	10.3	98	72	25	1	0	2	0
GLASGOW	75	50	92	45	63	-6	.2	-0.1	.2	4.4	86	8.1	96	82	28	1	0	2	0
GREAT FALLS	74	45	86	40	59	-8	0	-0.3	0	5.2	109	10.5	93	74	24	0	0	0	0
HAVRE	75	46	90	42	60	-8	0	-0.2	0	3.9	89	6.5	75	81	29	1	0	1	0
HELENA	77	45	89	41	61	-4	0	-0.3	0	4.6	119	8.5	101	71	23	0	0	0	0
KALISPELL	72	42	79	36	57	-6	.1	-0.2	.1	6.1	149	12.3	119	91	33	0	0	1	0
MILES CITY	77	54	91	48	66	-6	.2	-0.1	.2	4.7	92	10.0	94	61	25	1	0	1	0
MISSOULA	77	42	83	38	59	-9	.1	-0.2	.1	4.7	140	8.3	93	89	27	0	0	1	0
NE GRAND ISLAND	85	61	97	56	73	-1	.7	-0.1	.7	5.5	67	19.2	111	92	45	2	0	2	1
LINCOLN	87	63	97	58	75	0	.8	-0.1	.6	9.8	104	23.2	118	91	46	3	0	4	1
NORFOLK	82	57	94	51	70	-3	1.1	.5	.9	6.5	69	21.1	117	94	47	1	0	6	1
NORTH PLATTE	88	58	98	54	73	1	.4	0	.4	7.4	91	14.9	98	91	30	4	0	2	0
OMAHA	81	64	93	58	73	-2	.3	-0.6	.2	11.7	110	25.1	118	89	62	1	0	4	0
SCOTTSBLUFF	85	54	93	48	69	-2	.1	-0.1	.1	8.5	152	20.0	174	83	26	3	0	1	0
VALENTINE	80	55	89	46	68	-4	0	-0.5	0	8.5	120	16.8	126	84	34	0	0	1	0
NV ELY	85	45	89	36	65	0	0	-0.1	0	4.4	241	9.4	154	64	17	0	0	0	0
LAS VEGAS	102	73	107	66	88	0	0	-0.1	0	.3	30	3.4	132	28	11	7	0	0	0
RENO	91	51	97	49	71	4	0	-0.1	0	1.2	157	6.1	127	62	12	5	0	0	0
WINNEMUCA	90	47	97	36	69	1	0	-0.1	0	.6	48	6.9	136	37	12	4	0	0	0
NH CONCORD	86	56	95	48	71	4	1.0	-0.2	.6	11.6	141	23.8	107	97	40	3	0	2	1
NJ ATLANTIC CITY	87	62	93	55	75	1	.1	-1.0	.1	10.7	105	30.7	113	98	48	2	0	1	0
NM ALBUQUERQUE	92	61	95	56	76	0	.6	-0.3	.4	3.2	111	6.1	122	59	15	6	0	3	0
CLOVIS	93	66	96	64	80	4	0	-0.6	0	8.7	119	14.0	120	78	22	7	0	0	0
ROSWELL	97	65	99	62	81	3	2.2	1.7	2.2	8.1	194	12.3	190	73	24	7	0	1	1
NY ALBANY	86	60	94	50	73	4	.5	-0.3	.3	7.9	92	20.2	90	92	41	2	0	2	0
BINGHAMTON	83	60	92	53	72	5	.4	-0.4	.3	9.2	97	20.3	87	91	40	2	0	2	0
BUFFALO	83	64	90	57	73	5	0	-0.9	.1	13.6	158	25.7	113	84	42	1	0	2	0
NEW YORK	87	72	92	67	79	4	0	-1.0	0	13.5	137	30.1	110	88	50	2	0	0	0
ROCHESTER	83	61	91	53	72	3	.8	0	.8	12.2	161	21.5	108	92	48	2	0	1	1
SYRACUSE	86	62	97	54	74	5	.3	-0.5	.2	8.5	85	18.8	76	87	38	2	0	3	0
NC ASHEVILLE	89	61	93	56	75	2	.5	-0.5	.5	12.1	114	30.3	103	98	41	3	0	1	0
CHARLOTTE	94	71	97	68	82	4	0	-0.8	0	6.7	67	23.9	81	90	37	6	0	1	0
GREENSBORO	91	70	94	68	80	4	0	-0.9	0	10.3	92	32.6	115	94	44	5	0	0	0
HATTERAS	88	72	91	66	80	2	1.2	-0.2	1.2	13.9	99	44.1	130	99	66	2	0	1	1
NEW BERN	92	73	96	69	83	4	3.5	2.0	3.5	19.9	121	40.7	115	96	52	7	0	3	2
RALEIGH	90	70	95	69	80	3	1.4	.4	.7	6.2	55	27.1	95	98	51	5	0	3	2
WILMINGTON	92	73	96	70	83	3	.4	-1.1	.4	10.1	101	35.6	98	99	53	5	0	1	0
ND BISMARCK	75	48	85	44	62	-6	.1	-0.3	.1	8.6	137	16.0	139	99	39	0	0	2	0
FARGO	76	52	82	47	64	-4	.6	0	.4	5.9	70	11.1	78	95	42	0	0	4	0
GRAND FORKS	75	49	82	41	62	-5	.1	-0.5	0	9.4	122	15.3	118	95	41	0	0	2	0
WILLISTON	75	45	92	38	60	-8	0	-0.3	0	6.0	110	10.5	104	85	31	1	0	2	0
OH AKRON-CANTON	84	61	91	57	72	2	1.0	-0.2	.7	8.6	89	20.3	83	89	44	1	0	2	1
CINCINNATI	89	63	97	57	76	2	.5	-0.1	.5	11.2	106	23.9	86	87	41	2	0	1	1
CLEVELAND	82	64	91	56	73	2	1.4	-0.7	1.2	15.0	162	26.7	114	90	47	1	0	2	1
COLUMBUS	88	62	94	58	75	3	.2	-0.7	.2	9.1	85	17.8	69	88	41	1	0	3	0

Based on 1951-80 normals.

Weather Data for the Week Ending August 22, 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	87	63	93	58	75	2	.2	-.5	.1	7.9	84	18.1	75	86	40	1	0	2	0
TOLEDO	87	59	94	49	73	3	.4	-.3	.3	8.7	98	17.0	80	96	39	1	0	2	0
YOUNGSTOWN	82	58	90	50	70	1	2.7	1.9	2.6	15.7	156	26.9	108	95	48	1	0	1	1
OK OKLAHOMA CITY	96	75	98	72	86	5	T	-.5	T	9.8	114	30.9	146	78	38	7	0	2	1
TULSA	97	75	102	68	86	4	.8	.1	.7	7.8	78	27.9	109	78	39	7	0	2	1
OR ASTORIA	67	49	74	41	58	-3	0	-.4	0	1.9	41	32.7	86	96	62	0	0	0	0
BURNS	84	42	87	35	63	-3	0	-.1	0	2.0	141	7.1	102	***	***	0	0	0	0
MEDFORD	91	52	97	49	72	0	0	0	0	1.5	122	9.4	87	76	20	4	0	0	0
PENDELTON	82	58	87	46	66	-5	0	-.1	0	.8	57	5.6	77	55	19	0	0	0	0
PORTLAND	81	53	89	50	67	0	0	-.3	0	1.5	58	19.5	95	84	32	0	0	0	0
SALEM	82	48	88	44	65	-1	0	-.2	0	2.9	145	21.9	99	90	28	0	0	0	0
PA ALLENTOWN	86	63	91	55	74	2	.3	-.7	.3	13.4	125	27.2	96	95	47	1	0	2	0
ERIE	82	66	91	59	74	5	.5	-.4	.5	13.2	-131	24.3	101	79	47	1	0	1	1
HARRISBURG	89	64	96	53	76	3	.6	-.1	.6	7.3	78	20.6	81	92	37	3	0	2	1
PHILADELPHIA	89	69	94	61	79	4	.3	-.7	.3	9.0	84	22.7	84	94	46	3	0	1	0
PITTSBURGH	84	63	91	56	74	3	1.4	.7	.9	14.9	155	28.0	111	89	42	2	0	3	2
SCRANTON	85	61	92	51	73	3	.2	-.6	-.1	11.1	120	22.2	100	94	40	1	0	2	0
RI PROVIDENCE	87	66	93	59	77	6	.2	-.7	.2	4.3	50	23.8	85	94	41	3	0	1	0
SC CHARLESTON	93	73	97	71	83	3	1.3	-.1	.6	10.6	57	31.6	86	97	54	6	0	3	2
COLUMBIA	95	71	97	67	83	3	T	-1.3	T	16.8	122	37.4	108	97	44	7	0	0	0
FLORENCE	93	72	95	70	83	3	.8	-.2	.8	9.1	66	25.8	83	97	51	7	0	0	1
GREENVILLE	92	68	95	66	80	3	0	-.9	0	13.0	112	33.7	97	95	43	6	0	0	0
SD ABERDEEN	80	51	86	45	66	-4	T	-.4	T	4.4	63	9.7	72	94	31	0	0	2	0
HURON	80	54	85	49	67	-5	.4	0	.2	6.6	94	15.5	110	95	42	0	0	4	0
RAPID CITY	79	51	87	46	65	-6	.2	-.1	.2	4.3	66	10.5	81	84	34	0	0	1	0
SIOUX FALLS	79	55	85	50	67	-4	.3	-.5	.2	5.8	68	12.7	74	95	47	0	0	2	0
TN CHATTANOOGA	92	67	96	62	80	2	1.4	.7	.8	10.5	102	35.8	102	96	41	7	0	2	2
KNOXVILLE	93	65	96	59	79	2	.9	.2	.8	8.4	80	27.5	85	97	39	5	0	2	1
MEMPHIS	94	75	96	72	85	4	2.3	1.5	1.6	9.1	90	26.8	76	91	52	7	0	2	2
NASHVILLE	94	69	98	63	82	3	.3	-.5	.3	5.8	59	18.9	57	92	41	6	0	1	0
TX ABILENE	98	75	100	73	86	3	0	-.6	0	6.1	97	17.2	115	76	27	7	0	0	0
AMARILLO	93	66	96	61	80	3	0	-.7	0	6.3	75	14.1	101	78	25	7	0	0	0
AUSTIN	98	75	99	72	87	2	0	-.5	0	14.3	225	26.7	138	96	37	7	0	0	0
BEAUMONT	95	75	97	72	85	2	T	-1.3	T	17.3	117	38.7	110	100	51	7	0	1	0
BROWNSVILLE	96	77	97	74	87	2	.1	-.6	.1	6.5	111	14.7	115	95	46	7	0	1	0
CORPUS CHRISTI	94	76	95	73	85	1	0	-.9	0	8.1	95	22.1	125	96	50	7	0	0	0
DEL RIO	98	76	101	74	87	2	0	-.4	0	7.7	173	18.1	176	73	29	7	0	0	0
EL PASO	97	66	100	62	81	1	.1	-.2	.1	4.1	138	5.7	127	67	20	7	0	2	0
FORT WORTH	101	77	102	74	89	4	0	-.5	0	5.2	90	17.8	89	76	28	7	0	0	0
GALVESTON	92	80	93	78	86	3	0	-1.0	0	12.2	119	25.4	107	83	57	7	0	0	0
HOUSTON	99	76	99	73	87	5	0	-.9	0	14.4	135	27.9	97	95	37	7	0	0	0
LUBBOCK	97	71	99	67	84	6	T	-.5	T	6.8	102	12.6	104	75	29	7	0	1	0
MIDLAND	99	69	103	65	84	3	0	-.4	0	3.4	80	11.4	135	76	25	7	0	0	0
SAN ANGELO	99	72	101	68	85	2	0	-.4	0	3.7	87	23.1	216	84	26	7	0	0	0
SAN ANTONIO	98	77	100	74	88	3	0	-.6	0	8.9	133	30.2	170	90	34	7	0	0	0
VICTORIA	98	77	99	74	87	3	0	-.8	0	16.7	182	28.7	132	96	41	7	0	0	0
WACO	101	76	102	75	89	3	0	-.4	0	7.5	134	19.9	101	85	30	7	0	0	0
WICHITA FALLS	100	75	103	73	88	4	.8	.3	.7	6.7	107	25.0	145	80	29	7	0	2	1
UT BLANDING	85	54	91	47	70	-1	2.2	1.9	1.6	5.6	226	10.5	155	61	25	2	0	2	2
CEDAR CITY	86	56	92	50	71	-1	.1	-.2	.1	2.3	96	7.1	106	65	22	2	0	3	0
SALT LAKE CITY	88	59	94	51	73	-1	.1	-.1	.1	1.3	58	9.0	87	65	19	2	0	1	0
VT BURLINGTON	84	62	95	51	73	6	.4	-.5	.2	8.5	87	16.4	77	89	40	2	0	2	0
VA NORFOLK	89	73	96	67	81	3	.5	-.8	.3	7.7	62	29.5	99	95	56	4	0	2	0
RICHMOND	91	69	99	62	80	3	.5	-.7	.4	8.0	65	28.1	98	96	45	5	0	2	0
ROANOKE	94	67	100	60	81	6	.4	-.5	.4	4.7	49	31.9	124	98	37	7	0	3	0
WA COLVILLE	78	46	85	43	62	-4	.1	-.2	.1	4.2	137	12.6	118	77	36	0	0	1	0
QUILLAYUTE	69	46	82	38	57	-2	T	-.7	T	3.7	50	54.8	94	99	52	0	0	1	0
SEATTLE-TACOMA	75	52	79	49	64	0	T	-.3	T	.9	30	19.4	94	88	39	0	0	0	0
SPOKANE	76	48	82	45	62	-4	T	-.1	T	4.4	200	10.9	109	79	25	0	0	1	0
YAKIMA	83	45	87	41	64	-4	T	-.1	T	.5	48	4.3	92	80	21	0	0	0	0
WV BECKLEY	88	63	92	57	75	7	.7	-.1	.7	9.0	79	27.9	96	77	33	2	0	1	1
CHARLESTON	94	65	97	56	79	6	2.0	1.1	1.9	10.1	86	24.5	83	93	29	7	0	2	1
HUNTINGTON	94	65	99	56	79	5	.5	-.4	.5	6.4	58	23.1	81	92	33	6	0	1	0
PARKERSBURG	91	64	93	57	78	4	1.8	1.0	1.7	6.6	63	17.2	65	93	35	5	0	2	1
WI GREEN BAY	78	58	85	49	68	1	.9	.1	.9	7.4	86	14.7	80	94	49	0	0	1	1
LACROSSE	80	60	85	54	70	0	.9	0	.9	14.8	141	25.4	122	95	50	0	0	1	1
MADISON	80	59	87	51	69	0	3.0	2.2	2.7	10.5	102	20.1	96	98	55	0	0	3	1
MILWAUKEE	79	64	83	58	71	2	2.4	1.7	1.8	13.9	149	26.1	125	90	53	0	0	4	1
WAUSAU	76	57	82	50	67	0	.2	-.8	.2	10.1	94	16.0	76	94	47	0	0	1	0
WY CASPER	83	47	94	38	65	-3	.3	.1	.3	3.3	122	9.3	113	68	20	2	0	1	0
CHEYENNE	79	51	90	45	65	-1	.4	-.1	.3	4.9	100	12.2	119	73	25	2	0	2	0
LANDER	82	50	91	45	66	-2	.1	-.1	.1	2.4	100	11.0	116	59	17	1	0	1	0
SHERIDAN	78	46	92	40	62	-2	T	-.2	T	4.6	119	10.3	95	86	26	1	0	0	0
PR SAN JUAN	90	78	92	76	84	2	.3	-1.0	.2	11.8	85	41.2	134	92	72	7	0	3	0

Based on 1951-80 normals.

National Agricultural Summary

August 17 to 23, 1987

HIGHLIGHTS: Cooler temperatures eased crop stress in the central Great Plains, Corn Belt, Delta, and Southeast. Soil moisture shortage subsided in the central Plains and Corn Belt, but remained short in the Delta and Southeast. The lack of moisture hampered fruit development. Crops remained mostly good in the Corn Belt and central and northern Great Plains. Crop condition varied in the Delta and Southeast but was mostly good to fair. Fieldwork averaged 5 to 6 days except in the central Plains and western Corn Belt, where rain held fieldwork to less than 5 days.

Winter wheat harvest neared completion in the Pacific Northwest. Most of the acreage left to be harvested was in Idaho, Washington, and Oregon. Spring wheat harvest reached 75 percent (%) completion; 13 percentage points above the previous week and the 5-year average. Harvest more than doubled from the previous week in Idaho. Corn reaching the dent stage totaled 71%, 38 points above normal. Only 17% of the acreage was mature compared with the 6% average. Harvest was underway in Missouri. Soybeans setting pods reached 89% completion, 10 points above normal. Blooming was nearing completion except in the Southeast. Despite the early pod setting, dropping leaves was slightly ahead of normal. Fifty percent of sorghum acreage turned color, and 23% was mature. Harvest was 17% complete, 1 point below average. Cotton was opening bolls 7 points faster than the 14% average. Harvest was underway in Texas and western Arizona. Rice was 20% harvested compared with 19% normally. Harvest jumped 31 points from the previous week in Texas to 82% completion. Livestock was mostly good. Lower temperatures eased stress.

SMALL GRAINS: Winter wheat harvest neared completion in the Pacific Northwest. Harvest was 96% finished in Washington, 9 points ahead of normal. Oregon's harvest reached 90% completion, compared with 92% in 1986 and the 88% average. Grain harvest was mostly complete except in high eastern counties. Eighty-one percent of Idaho's wheat was combined, up 11 points from the previous week and 20 points above the average. Small grain seeding was underway in Arkansas, Minnesota, New Mexico, and Washington. Preparation for wheat seeding gained momentum in the Corn Belt and Nebraska.

Spring wheat harvest reached 75% completion, compared with 51% in 1986 and 62% normally. In Idaho, harvest more than doubled from the previous week, reaching 60% completion. Harvest was up 18 and 20 points from the previous week in North Dakota and Montana, respectively. Harvest was ahead of normal except in Montana, which trailed 9 points behind normal.

CORN: Corn was mostly good in the central and northern Great Plains and Corn Belt. Corn development continued surging ahead of normal in most areas. Development and maturity lagged behind normal in most Southeast States. Harvest was underway as far north as Missouri but was concentrated mostly in the Southeast and Delta. In the 17 major producing States, 17% of the acreage was mature, compared with 9% in 1986 and 6% normally. Corn was mature in all States except Colorado and Minnesota. Seventy-one percent of the acreage reached the dent stage, more than doubled the normal pace. Most corn acreage was passed the dough stage in the major producing States.

SOYBEANS: Soybeans were mostly good to fair in the Southeast and Delta. The extremely high temperatures subsided toward the end of the week, easing stress but moisture remained mostly short. Crop condition remained mostly good in the central and northern Great Plains and Corn Belt. Eighty-nine percent of the acreage set pods, 10 points above normal and 5 points above 1986. Soybeans were dropping leaves 3 points faster than normal. Blooming was mostly finished except in the Southeast. Soybeans showed some signs of drought stress in Georgia. Insufficient soil moisture caused stress in Indiana. Ohio soybeans need rain to fill pods.

SORGHUM: Sorghum was mostly good to fair. Heading was 11 points ahead of normal at 92% completion. Sorghum turning color leaped 15 points ahead of the previous week and was 13 points ahead of normal. Twenty-three percent of the acreage was mature, 3 points behind 1986 but slightly ahead of normal. Harvest was 17% finished, 1 point behind the average and 3 points below 1986. Harvest was underway in Arkansas, Louisiana, Mississippi, Missouri, and Texas.

COTTON: Cotton was mostly good in the Delta, southern Great Plains, and Southwest. Crop condition was fair to good in the Southeast. Cotton setting bolls reached 99%, compared with the 94% average. Twenty-one percent of the acreage had bolls opening, equaling 1986 but 7 points above normal. Bolls opening were ahead of normal in all States, except Oklahoma and South Carolina. Oklahoma's cotton had not reached the boll opening stage. Limited cotton harvest was underway in western Arizona. Cotton harvest was in full swing at Coastal Bend and in the Rio Grande Valley and should begin soon in central Texas. Bolls began opening in the southern Low Plains and at Cross-Timbers.

OTHER CROPS: Rice was 92% headed, compared with 89% in 1986 and 79% normally. Heading was virtually finished except in Texas. Harvest reached 20% completion, 4 points behind 1986 and 1 point below average. Harvest trailed 6 points behind normal in Louisiana and was just beginning in Arkansas and Mississippi. Texas rice producers combined 31% of their acreage, reaching 82% completion. Normally, harvest would be 67% finished.

Peanuts were mostly good to fair. Harvest continued in Mississippi, South Carolina, and Texas. Mississippi harvest reached 21% completion.

Flue-cured tobacco harvest trailed behind normal in the Southeast. Harvest was 5 to 7 points behind normal in South Carolina, North Carolina, and Georgia. Virginia's harvest was 17 points below average. Burley harvest surged ahead of normal, especially in Kentucky and Tennessee.

FRUIT AND NUTS: Apple harvest gained momentum in the Southeast. Growers began picking apples in Michigan and Oregon. Peach harvest was nearing end in the Southeast. Florida's citrus groves were good to excellent. New foliage covered most well-kept trees, and new crop fruit progressed well. Fruit size was variable depending on care and moisture. Texas citrus sized slowly because of hot weather. Nectarines, pears, oranges, lemons, grapefruit, and table grapes were harvested in California. Wine grape harvest

(Continued to p. 21)

Crop Progress

FOR WEEK ENDING AUGUST 23, 1987

GRAIN SORGHUM
% HEADED

	1987	1986	AVG.
ARK	99	95	NA
ILL	99	94	NA
KANS	85	90	65
LA	100	100	98
MISS	100	100	95
MO	98	97	87
NEBR	99	96	88
OKLA	80	75	80
S DAK	92	84	82
TENN	100	100	100
TEX	96	91	90

11 STATES 93 92 NA

EXCL. STATES WITH NA 92 91 81

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

NA - NOT AVAILABLE.

GRAIN SORGHUM
% MATURE

	1987	1986	AVG.
ARK	55	52	NA
ILL	5	NA	NA
KANS	4	3	0
LA	55	83	63
MISS	63	73	39
MO	26	24	15
NEBR	2	0	0
OKLA	5	5	5
S DAK	0	0	0
TENN	35	45	25
TEX	55	61	60

11 STATES 25 NA NA

EXCL. STATES WITH NA 23 26 22

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

NA - NOT AVAILABLE.

SOYBEANS
% BLOOM

	1987	1986	AVG.
ALA	80	91	88
ARK	91	83	82
GA	98	93	93
ILL	100	100	100
IND	100	100	100
IOWA	100	100	99
KANS	95	99	90
KY	96	89	86
LA	95	97	93
MICH	100	99	98
MINN	100	99	99
MISS	82	83	90
MO	100	96	90
NEBR	100	100	100
N C	76	78	79
OHIO	100	100	100
S C	85	72	83
S DAK	100	100	100
TENN	89	90	92

19 STATES 97 96 95

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

GRAIN SORGHUM
% COLORING

	1987	1986	AVG.
ARK	83	82	NA
ILL	75	43	NA
KANS	30	25	10
LA	81	97	89
MISS	86	86	NA
MO	74	68	60
NEBR	45	23	11
OKLA	45	40	35
S DAK	36	29	22
TENN	80	80	50
TEX	66	69	71

11 STATES 53 48 NA

EXCL. STATES WITH NA 50 45 37

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

NA - NOT AVAILABLE.

GRAIN SORGHUM
% HARVESTED

	1987	1986	AVG.
ARK	20	31	8
ILL	0	NA	NA
KANS	0	0	0
LA	26	61	37
MISS	13	32	11
MO	4	3	0
NEBR	0	0	0
OKLA	0	0	0
S DAK	0	0	0
TENN	0	2	1
TEX	51	53	55

11 STATES 17 NA NA

EXCL. STATES WITH NA 17 20 18

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

NA - NOT AVAILABLE.

SOYBEANS
% SETTING PODS

	1987	1986	AVG.
ALA	60	69	67
ARK	64	56	52
GA	78	62	71
ILL	99	97	92
IND	99	90	80
IOWA	100	95	92
KANS	80	90	60
KY	70	52	47
LA	85	82	77
MICH	95	75	80
MINN	100	95	95
MISS	59	58	57
MO	93	86	73
NEBR	98	95	88
N C	42	49	49
OHIO	99	100	94
S C	52	40	48
S DAK	100	84	86
TENN	75	65	60

19 STATES 89 84 79

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

RICE
% HEADED

	1987	1986	AVG.
ARK	95	93	77
CALIF	65	50	50
LA	97	98	92
MISS	98	100	87
TEX	100	100	100

5 STATES 92 89 79

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

RICE
% HARVESTED

	1987	1986	AVG.
ARK	2	4	1
CALIF	0	0	0
LA	39	59	45
MISS	1	7	NA
TEX	82	75	67

5 STATES 18 23 NA

EXCL. STATES WITH NA 20 24 19

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

NA - NOT AVAILABLE.

SOYBEANS
% DROPPING LEAVES

	1987	1986	AVG.
ALA	0	NA	NA
ARK	0	0	0
GA	1	1	2
ILL	5	2	1
IND	5	0	0
IOWA	4	0	0
KANS	10	5	4
KY	8	6	1
LA	10	7	4
MICH	3	0	0
MINN	3	0	0
MISS	0	4	NA
MO	0	0	0
NEBR	0	0	0
N C	0	0	0
OHIO	14	9	5
S C	0	0	0
S DAK	9	3	0
TENN	0	2	0

19 STATES 4 NA NA

EXCL. STATES WITH NA 4 2 1

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

NA - NOT AVAILABLE.

Aug. 25, 1987

Weekly Weather and Crop Bulletin

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	CORN % DOUGH		
	1987	1986	AVG.
COLO	68	62	63
GA	100	100	100
ILL	99	95	88
IND	100	95	82
IOWA	96	83	67
KANS	97	90	75
KY	98	96	86
MICH	95	45	60
MINN	97	65	55
MO	99	95	89
NEBR	95	76	72
N C	95	100	94
OHIO	99	97	91
PA	76	77	62
S DAK	88	53	55
TEX	100	98	95
WIS	79	61	55
17 STATES	95	81	74

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

	CORN % DENT		
	1987	1986	AVG.
COLO	18	18	19
GA	100	99	98
ILL	87	68	50
IND	90	55	27
IOWA	75	43	28
KANS	60	60	30
KY	76	76	54
MICH	45	4	10
MINN	65	17	12
MO	92	90	68
NEBR	60	41	20
N C	83	93	88
OHIO	80	48	38
PA	27	21	17
S DAK	49	18	18
TEX	80	89	82
WIS	44	13	15
17 STATES	71	46	33

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

	CORN % MATURE		
	1987	1986	AVG.
COLO	0	0	0
GA	89	98	92
ILL	22	10	4
IND	27	10	3
IOWA	15	0	0
KANS	35	25	10
KY	27	29	12
MICH	3	0	0
MINN	0	0	0
MO	35	34	16
NEBR	4	0	0
N C	55	65	60
OHIO	16	3	1
PA	2	1	0
S DAK	4	0	0
TEX	66	70	66
WIS	5	0	0
17 STATES	17	9	6

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

	COTTON % SETTING BOLLS		
	1987	1986	AVG.
ALA	100	100	99
ARIZ	100	100	100
ARK	100	100	100
CALIF	100	100	96
GA	100	99	99
LA	100	100	98
MISS	100	100	100
MO	100	100	99
N MEX	97	95	98
N C	98	97	94
OKLA	85	85	80
S C	100	100	100
TENN	100	100	99
TEX	99	91	90
14 STATES	99	95	94

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

	COTTON % BOLLS OPENING		
	1987	1986	AVG.
ALA	18	11	10
ARIZ	50	45	45
ARK	29	29	13
CALIF	20	10	4
GA	25	22	17
LA	28	56	22
MISS	32	54	25
MO	33	10	8
N MEX	20	53	43
N C	14	8	0
OKLA	0	0	0
S C	7	26	27
TENN	18	8	8
TEX	17	13	12
14 STATES	21	21	14

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

	SPRING WHEAT % HARVESTED		
	1987	1986	AVG.
IDAHO	60	59	38
MINN	95	45	62
MONT	51	52	60
N DAK	69	42	55
S DAK	100	86	90
5 STATES	75	51	62

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

Crop Condition

STATE	GRAIN SORGHUM				
	VP	P	F	G	EX
ARK	0	1	27	63	9
ILL	0	0	33	62	5
KANS	0	0	11	53	36
LA	0	5	40	55	0
MISS	0	2	24	74	0
MO	0	1	22	71	6
NEBR	0	0	15	79	6
OKLA	0	1	14	85	0
S DAK	0	0	24	64	12
TENN	0	8	37	52	3
TEX	0	1	19	62	18

STATE	CORN				
	VP	P	F	G	EX
COLO	0	1	19	65	15
GA	0	3	26	66	5
ILL	0	2	18	63	17
IND	0	1	15	58	26
IOWA	0	0	10	64	26
KANS	0	0	15	46	39
KY	1	1	18	68	12
MICH	5	15	30	35	15
MINN	1	3	14	57	25
MO	0	3	26	60	11
NEBR	0	0	22	67	11
N C	13	30	42	15	0
OHIO	1	5	21	56	17
PA	3	12	27	38	20
S DAK	0	2	16	66	16
TEX	0	1	18	59	22
WISC	0	0	6	54	40

STATE	SOYBEANS				
	VP	P	F	G	EX
ALA	0	4	52	44	0
ARK	0	2	25	68	5
GA	0	19	28	52	1
ILL	0	0	22	71	7
IND	0	9	21	57	13
IOWA	0	1	10	70	19
KANS	0	1	4	46	49
KY	1	6	40	53	0
LA	0	10	21	61	8
MICH	1	9	30	45	15
MINN	0	2	23	52	23
MISS	0	9	37	49	5
MO	1	2	36	57	4
NEBR	0	0	19	72	9
N C	4	13	56	26	1
OHIO	1	8	31	50	10
S C	1	1	65	33	0
S DAK	0	1	5	72	22
TENN	0	10	55	32	3

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

(Continued to back cover)

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 ranged under 0.50 to 2.00 in.; temperatures averaged 2 to 5° above normal. Significant rainfall over southeast.

Days suitable for fieldwork 5.6. Soil moisture 62% short, 36% adequate, 2% surplus. Corn 90% mature, 91% 1986, 81% avg.; 45% harvested, 46% 1986, 34% avg.; 4% poor, 39% fair, 55% good, 2% excellent. Sorghum 17% harvested, 20% 1986, 12% avg.; 2% poor, 55% fair, 43% good. Cotton 18% bolls opened, 11% 1986, 10% avg.; 7% poor, 38% fair, 55% good. Soybeans 80% blooming, 91% 1986, 88% avg.; 60% setting pods, 69% 1986, 57% avg.; 12% turning color, 14% 1986, 7% avg.; 4% poor, 52% fair, 44% good. Pastures mostly fair; livestock mostly good. Primary activities: Harvesting corn, sorghum, vegetables; applying fungicides to peanuts; spraying for insects on cotton, peanuts, vegetables; repairing harvest equipment; routine care of livestock, poultry.

ALASKA: Sunny, warm weather blanketed most areas enabling growers nearly ideal harvest condition. Temperature high 6° above normal to 4° below normal. Temperatures lows ranged from 5° below normal to 1° above normal. Seasonal precipitation ranged from 2.20 in. drier than normal to 3.30 in. wetter than normal.

Days suitable for harvesting hay 5.0. Topsoil moisture 9% short, 85% adequate, 6% surplus. Subsoil moisture 7% short, 90% adequate, 3% surplus. Second cutting hay harvest slightly over 15% done. Barley for grain harvest began, 95% turning color, 20% ripe. Potatoes mostly average, early market varieties being harvested. Harvest of commercial vegetables continued, excellent quality, quantities available.

ARIZONA: Break in monsoon through 18th; sunny skies, dry air, light winds prevailed. Considerable moisture, thunderstorms poised south of border 17th, 18th; however, southerly winds lacking to push activity northward. Humid air surged across border 19th, caused thunderstorms southeast; central, northern sections remained mostly sunny. Activity continued 20th through 22nd over eastern half; widely scattered thunderstorms west. Rainfall amounts mostly 0.25 to 0.75 in., except very little or none over western one-third. Average temperatures 2° below to 5° above normal.

Cotton harvest underway limited scale west in early planted fields. Defoliant spraying west. Boll set excellent; some growers applying final irrigations. Pink bollworms, tobacco budworms, whiteflies, spider mites active. Weed, insect controls applied. Alfalfa harvest active, hay stacked due to low prices. Pepper grasses central. Condition excellent west. Late planted sudan grass growing actively west; harvest early fields winding down. Corn harvest for grain expected soon west. Spring planted corn harvest winding down central. Sorghum good, turning color. Lemon harvest underway west, growers ring picking. Packing of 1st pick expected 28th. Groves good. Apple deal gained momentum southeast. Watermelon movement light central; fields kept wet for final shipments; movement continued southeast. Cantaloup, honeydew shipments very light. Fall vegetable planting underway west. Fall lettuce planted, subbed central. Carrots dug, green onions harvested central valley. Green chili harvested southeast.

ARKANSAS: Hot, humid weather beginning week. Cooler, drier air weekend. Temperatures 2 to 6°

above normal. Temperature extremes 62°; 108°. Rainfall normal to 2.53 in.

Days suitable for fieldwork 6.0. Soil moisture 78% short, 22% adequate. Major farming activities: Cutting, baling hay; preparing land, fall seeding; applying fungicides, insecticides; draining rice fields; harvesting corn, sorghum. Corn 38% harvested, 53% 1986, 22% avg. Corn 15% fair, 73% good, 12% excellent. Alfalfa hay 55% fair, 45% good. Other hay 13% poor, 62% fair, 25% good. Cotton, boll openers, defoliant materials applied. Rice fields drained. Fungicides applied, late rice fields. Soybean irrigation continued. Apple, grape, watermelon harvest continued. Pecan size, expected good. Feeding hay. Pasture growth slow. Livestock good.

CALIFORNIA: Trough over coast beginning week brought traces precipitation some coastal locations, below normal temperatures much State. Ridge moved in, temperatures rose above normal through midweek. Weekend another trough formed over west coast, cooling temperatures again. Some northern central coastal stations few degrees above normal but most State below normal.

Rice headed out. Harvesting active blackeye peas, sugarbeets, safflower. Cotton excellent, open bolls showed. Alfalfa hay, seed harvested. Field corn green chopped. Apples, avocados harvested. Date harvest active Coachella Valley. Table grapes picked. Wine grape harvest gained momentum. Nectarine, bartlett pear harvest neared completion. Peach harvest continued, good quality. Valencia orange, lemon, summer grapefruit harvests continued. Navel oranges maturing well. Almond harvest underway. Walnut orchards being prepared for harvest. Snap bean packing continued, good quality, south coast. Freezer bean harvest underway Westside. Broccoli moderate both Salinas, Santa Maria; good quality. Fall planting continued Westside. Carrot moderate Salinas, good quality. Production Kern-Tulare moderate steady, pulling continued from Cuyama Valley, other districts, good quality. Cauliflower moderate Salinas; fairly heavy Santa Maria; good quality. Fall planting progressed Westside. Celery moderate both Salinas-Watsonville, Santa Maria-Oceano, good quality. Fields transplanted Huron District, south coast. Sweet corn, good supply, most producing areas, excellent quality. Light harvesting, south coast, good quality. Cucumber packing active Westside, Delta, south coast, good quality. Lettuce moderate to fairly heavy Salinas; moderate Santa Maria, variable weight, quality. Fall planting, Westside nearly complete, germination some fields. Watermelon, cantaloup, honeydew, mixed melon harvests active, statewide. Packing Kingsburg-Dinuba neared completion. Light harvesting watermelons, south coast. Early planted fields Palo Verde Valley, blossom stage. Dry onion digging continued Delta, Coachella Valley. Dehydrator onion harvest continued Westside; dehydrator fields Tulalake-Butte Valley, bulbing well. Pepper picking fairly light, increased Salinas, good quality. Production active central valley, south coast, good quality. Picking Kings County, finished. Summer potato digging continued Hemet-San Jacinto. Fall fields Tulalake-Butte Valley continued to grow well. Growers still applying defoliants early fields, irrigation completed for early crop. Sweet potatoes harvested Selma District, Merced-Atwater. Tomatoes processing fresh market, full production, good

quality, statewide. Ranges remained extremely dry, fire danger continued critical. Supplemental feeding increased as range condition deteriorates. Stockwater supplies short many areas.

COLORADO: Temperatures 4° below to 4° above normal. Warm, dry except rain statewide weekend. Precipitation through 21st none to 1.14 in.

Days suitable for fieldwork 5.5. Soil moisture mostly short. Corn, small grains good. Wheat 98% harvested. Oats 47% harvested; barley 68% harvested; spring wheat 14% harvested. Sorghum 13% turning color. Summer potato, onion harvest active. Dry bean cutting underway. Livestock good. Pastures mostly fair.

FLORIDA: Abundant sunshine, fairly dry air; high 90s afternoon, warm 70s night. Afternoon thunderstorms, some 1.00 in. or more but essentially hot, dry statewide.

Soil moisture generally adequate except short, few scattered areas central, upper Peninsula. Tobacco harvest about complete. Corn, hay harvest active. Peanut harvest began. Soybeans, cotton good progress. Sugarcane progressed normally. Panhandle, upper Peninsula pastures mostly fair. Central, lower Peninsula good to excellent. Cattle mostly good. Citrus groves very good to excellent. Rainfall varied with irrigation active some areas. New foliage covered most well kept trees. New crop fruit progressed well. Fruit sizes variable depending on care, moisture supplies. Caretakers completing summer jobs. Hot days, warm nights prevailed over vegetable producing areas. Land preparation active. Planting tomatoes, peppers, cucumbers, squash increased. Heat stress, young plants, some fields.

GEORGIA: Temperatures 2 to 5° above normal most locations. Lows from mid 50s mountains to mid and upper 60s elsewhere. Highs mostly mid to upper 90s, some readings above 100° during weekend. Rainfall limited to local areas. Totals under 0.50 in. with only very local areas over 1.00 in.

Days suitable for fieldwork 6.1. Soil moisture 22% very short, 51% short, 25% adequate, 2% surplus. Sharp drop from last week. Corn 32% harvested, 59% 1986, 44% avg. Harvest progress slow as farmers wait for more field drying. Cotton pest management active. Sorghum grain 11% poor, 36% fair, 51% good, 2% excellent. Peanuts 10% poor, 24% fair, 65% good, 1% excellent; none dug, 1% 1986, 2% avg. Pest control active. Soybean insect populations increased some areas. Some drought stress. Tobacco 11% poor, 19% fair, 60% good, 10% excellent; 81% harvested, 81% 1986, 88% avg. Apples 4% poor, 18% fair, 75% good, 3% excellent; 21% harvested, 40% 1986, 46% avg. Pecans 2% poor, 28% fair, 66% good, 4% excellent. Pasture 10% poor, 43% fair, 45% good, 2% excellent. Hay 15% poor, 41% fair, 42% good, 2% excellent. Cattle, hogs good. Prolonged heat caused milk production loss. Main activities: Applying fungicides, insecticides for pest control; harvesting corn, tobacco, hay, vegetables; irrigating, where available; care of heat stressed livestock, poultry.

HAWAII: Record high temperatures, light winds, produced humid conditions. Slowed down fieldwork due to heat. Light natural showers. Irrigation, pesticide spraying heavy. Crops fair to good. Temperatures low 90s to mid 70s. Rainfall ranged none to 1.40 in.

Days suitable for fieldwork 7.0. Banana, papaya production moderate to heavy. Chinese, head cabbage production moderate. Head lettuce light, disease lowered yields. Watermelon output heavy.

IDAHO: Average temperatures below normal. Precipitation below normal.

Days suitable for fieldwork 7.0. Winter wheat 81% harvested, 79% 1986, 61% avg. Spring wheat 60% harvested, 59% 1986, 38% avg. Spring barley 65% harvested, 59% 1986, 42% avg. Potatoes good to excellent, some frost east, 52% turning. Dry pea 91% harvested, 91% 1986, 72% avg. Second cutting alfalfa hay 86%, 3rd cutting 4%. Mint 73% harvested. Livestock good. Range, pasture providing limited grazing. Irrigation water short some areas.

ILLINOIS: Temperatures averaged near normal. Precipitation generally below normal, except west and northern areas.

Days suitable for fieldwork 5.0. Soil moisture 45% short, 43% adequate, 12% surplus. Soybeans 22% turning yellow, 11% 1986, 6% avg. Alfalfa hay 3rd crop 68% cut, 58% 1986, 59% avg.; 4% poor, 19% fair, 64% good, 13% excellent. Pasture 1% very poor, 11% poor, 38% fair, 44% good, 6% excellent.

INDIANA: Temperatures near to slightly below normal north, central; above normal south. Lows 40s to mid 50s, highs upper 90s. Rainfall light. Northwest, west central 0.50 in, other areas under 0.25 in.

Days suitable for fieldwork 6.3. Topsoil moisture 76% short, 24% adequate. Subsoil moisture 72% short, 28% adequate. Corn, soybeans mostly good to excellent. Soybeans 20% turning yellow, 8% 1986, 3% avg. Tobacco 33% harvested, 10% 1986, 2% avg. Wheatland 19% plowed, 22% 1986, 18% avg. Silos 15% filled, 11% 1986, 5% avg. Pastures 4% very poor, 31% poor, 49% fair, 15% good, 1% excellent. Deficient soil moisture most areas caused crop stress.

IOWA: Temperatures near normal. Temperature extremes 44° Decorah 24th; 98° Keosauqua 21st. Precipitation spotty, 3.90 in. Independence, 3.25 in. Toronto 21st. Subnormal amounts northeast, east central.

Days suitable for fieldwork 3.5. Topsoil moisture 8% short, 71% adequate, 21% surplus; subsoil moisture 15% short, 79% adequate, 6% surplus. Hay 1% very poor, 6% poor, 10% fair, 70% good, 13% excellent. Third crop alfalfa 55% harvested, 30% 1986, 36% avg. Second crop clover 96% harvested, 89% 1986, 89% avg. Soybeans 10% leaves turning, 4% 1986, 3% avg. Livestock mostly good. Pastures 1% very poor, 8% poor, 18% fair, 57% good, 16% excellent.

KANSAS: Mild temperatures near normal. Northwest, northeast 2° above, remainder within 1° normal. Rainfall heaviest eastern area average around 1.00 in., central 0.50 in., west less than 0.10 in. Severe storms central, east produced baseball sized hail northeast, east central 19th evening.

Days suitable for fieldwork 5.0. Soil moisture 26% short, 65% adequate, 9% surplus. Cool weather weekend lowered temperatures, relieved some moisture stress but scattered hail damage noted. Corn good progress, ahead schedule. Corn borer infestations south central, southwest. Mature stands mostly eastern counties. Sorghum satisfactory progress, corn earworms, webworms, southeast, south central counties. Soybeans good progress few problems noted. Pastures drying up, cattle moving off grass to market and feedlots. Alfalfa hay 3rd cutting neared completion, 4th cutting early stages.

KENTUCKY: Hot and dry. Daytime lows mid 60s, highs lower 90s. Rainfall ranged from none to isolated amounts 1.00 in.

Days suitable for fieldwork 5.6. Soil moisture 45% very short, 44% short, 11% adequate. Corn drying rapidly. Dry conditions reduced yield potential late soybeans. Tobacco 1% very poor, 5% poor, 53% fair, 39% good, 2% excellent. Burley 39%

cut, 30% 1986, 20% avg. Dark tobacco 40% cut. Pasture 6% very poor, 38% poor, 43% fair, 12% good, 1% excellent. Need rain.

LOUISIANA: Temperature 3 to 5° above normal. Temperature extremes 69°, 100°. Rainfall averaged none to 0.53 in.

Days suitable for fieldwork 5.8. Soil moisture 31% short, 67% adequate, 2% surplus. Corn fair to good; 97% mature, 98% 1986, 94% avg.; 40% harvested, 78% 1986, 56% avg. Cotton 28% open bolls, 56% 1986, 22% avg. Rice 97% headed, 98% 1986, 92% avg.; 57% ripe, 76% 1986, 61% avg.; 39% harvested, 59% 1986, 45% avg. Sorghum 100% headed, 100% 1986, 98% avg.; 81% turning color, 97% 1986, 39% avg.; 55% ripe, 83% 1986, 63% avg.; 26% harvested, 61% 1986, 37% avg. Soybeans 95% blooming, 97% 1986, 93% avg.; 85% setting pods, 82% 1986, 77% avg.; 10% turning color, 7% 1986, 4% avg. Hay final cutting 41%, 49% 1986, 30% avg. Sweetpotatoes good; 20% harvested, 25% 1986, 22% avg. Sugarcane good; 6% planted, 6% 1986, 3% avg. Pasture, livestock good; vegetables fair to good. Main activities: Baling hay; harvesting corn, rice, sorghum, sweetpotatoes; planting sugarcane.

MARYLAND & DELAWARE: Maryland: Temperatures averaged 78°, 74° normal. Precipitation averaged 0.12 in., ranging from normal to 0.50 in. Upper Marlboro. Additional significant rain received 22nd.

Days suitable for fieldwork 6.7. Topsoil, subsoil moisture very short to short. Corn fair. Corn 98% silked, 98% avg, 98% 1986. Corn 85% dough, 80% avg. Corn 55% dent, 40% avg. Corn 10% mature. Soybeans poor to fair, mostly fair. Soybeans 80% bloomed, 80% avg. Soybeans 65% set pods, 55% avg. Tobacco poor. Tobacco 90% bloomed, 90% avg. Pasture poor to fair. Apples, peaches fair to good, mostly good. Peaches 65% harvested, 65% avg.

Delaware: Temperatures averaged 79°, 75° normal. Precipitation averaged normal.

Days suitable for fieldwork 7.0. Topsoil moisture very short. Subsoil moisture very short to short. Soybeans poor to fair, mostly fair. Soybeans 80% bloomed, 85% 1986, 85% avg. Soybeans 60% set pods, 55% avg. Corn poor to fair, mostly fair. Corn 90% dough, 80% avg. Corn 60% dent, 55% avg. Corn 15% mature, 30% 1986. Peaches 90% harvested, 80% avg.

MICHIGAN: Temperatures ranged from 1° below to 4° above normal. Temperature extremes 41°, 94°. Precipitation ranged from none to 3.62 in. across State.

Days suitable for fieldwork 5.0. Soil moisture 30% short, 60% adequate, 10% surplus. Corn 95% dough, 45% 1986, 60% avg.; dent 45%, 4% 1986, 10% avg.; mature 3%, none 1986, none avg.; 5% very poor, 15% poor, 30% fair, 35% good, 15% excellent. Soybeans 100% bloomed, 99% 1986, 98% avg.; 95% setting pods, 75% 1986, 80% avg.; 3% dropping leaves, none 1986, none avg.; 1% very poor, 9% poor, 30% fair, 45% good, 15% excellent. Dry beans 90% setting pods, 75% 1986, 80% avg.; 10% very poor, 20% poor, 35% fair, 25% good, 10% excellent. Major activities: Making hay, maintaining set aside land, preparing wheat ground. McIntosh, jonathan apple harvest started. Stanley prune harvest ending. Blueberry harvest continued.

MINNESOTA: Temperatures averaged 2 to 5° below normal. Temperature extremes 30°, 89°. Precipitation averaged 0.50 to 1.00 in. below normal.

Spring wheat 95% combined, 45% 1986, 62% avg. Oats 98% combined, 83% 1986, 88% avg. Barley 99% combined, 69% 1986, 80% avg. Field corn 97% in dough, 65% 1986, 55% avg.; 65% denting, 17% 1986;

12% avg. Soybeans 24% turning yellow, 2% 1986, 2% avg.; 3% dropping leaves, none 1986, none avg. Potatoes 10% harvested, none 1986, none avg. Sweet corn 70% harvested, 48% 1986, 47% avg. Winter wheat 12% planted, 6% 1986, 5% avg. Rye 14% planted, 4% 1986, 4% avg.

MISSISSIPPI: Temperatures 1 to 5° above normal; extremes 62°, 101°. Drier air moved into State allowed afternoon temperatures to soar near 100° over northern half of State. Greatest 24-hour total rainfall 4.95 in.

Days suitable for fieldwork 5.3, 6.1 1986, 5.6 avg. Soil moisture 11% very short, 28% short, 53% adequate, 5% surplus, 3% excessive. Corn 94% dented, 99% 1986; 60% mature, 83% 1986, 64% avg.; 13% harvested, 30% 1986, 17% avg.; 22% fair, 59% good, 19% excellent. Hay 80% harvested, 78% 1986, 77% avg. Sorghum silage 51% harvested, 71% 1986, 51% avg. Watermelons 89% harvested, 95% 1986. Peanuts 21% harvested, 36% 1986. Sweetpotatoes 6% harvested, 22% 1986, 11% avg. Corn silage 71% harvested, 86% 1986, 66% avg. Wheat none planted, none 1986. Rice 98% headed, 100% 1986, 87% avg.; 9% mature, 76% 1986; 1% harvested, 7% 1986; 20% poor, 16% fair, 64% good. Sorghum 100% headed, 100% 1986, 95% avg.; 86% coloring, 86% 1986; 63% mature, 73% 1986, 39% avg.; 13% harvested, 32% 1986, 11% avg.; 2% poor, 24% fair, 74% good. Cotton 100% set bolls, 100% 1986; 32% open bolls, 54% 1986, 25% avg.; 7% poor, 10% fair, 81% good, 2% excellent. Soybeans 82% blooming, 83% 1986, 90% avg.; 59% podding, 58% 1986, 57% avg.; 5% coloring, 16% 1986; 9% poor, 37% fair, 49% good, 5% excellent.

MISSOURI: Temperatures averaged 3° above normal. Precipitation up to 2.50 in. northwest, northeast, west.

Days suitable for fieldwork 4.6. Topsoil moisture 31% short, 63% adequate, 6% surplus. Corn harvest 4%, 3% 1986, none avg. Pastures 5% very poor, 25% poor, 47% fair, 22% good, 1% excellent.

MONTANA: Cool week, temperatures 5° below normal southwest to 8° below north central, central. Precipitation light most areas. Southeast, southwest received about 0.30 in. rain early week.

Days suitable for fieldwork 5.2. Topsoil moisture 18% short, 82% adequate. Subsoil moisture 15% short, 85% adequate. Barley 4% poor, 11% fair, 62% good, 23% excellent. Barley 46% harvested, 58% 1986, 62% avg. Oats 39% harvested, 60% 1986, 63% avg. Second cutting alfalfa hay 75%, 72% 1986, 70% avg. Wild hay 92% cut, 97% 1986, 92% avg. Grazing prospects late summer ranges 1% poor, 19% fair, 54% good, 26% excellent.

NEBRASKA: Cool, damp conditions. Precipitation widespread but under 1.00 in. Average temperatures 3 to 6° below normal, extremes 40°, 98°.

Days suitable for fieldwork 4.3. Topsoil moisture 32% short, 57% adequate, 11% surplus. Subsoil moisture 18% short, 80% adequate, 2% surplus. Winter wheat seedbed preparation, fertilizing active. Grass seed harvest active. Corn borer, spider mite situation monitored, hail damaged corn harvested for silage. Hail eastern counties caused severe damage some localities. Bean leaf beetle concern for soybean growers, increased spraying necessary. Very little greenbug problems in sorghum. Third cut alfalfa 70%, 42% 1986, 44% avg. Humidity, rain, cool temperatures hampered drying conditions. Pasture, range grasses rejuvenated by rain, supplies adequate. Livestock making good gains, yearlings to market, cows culled.

NEVADA: High pressure system most of period produced temperatures higher than preceding week, also tended to keep most thunderstorm activity out

of area. Some isolated thunderstorms occurred throughout period. Temperatures averaged above normal. Extremes 27°; 109°.

Melon harvest well along. Ranges continued to deteriorate from above normal temperatures, lack significant precipitation.

NEW ENGLAND: Precipitation averaged 0.50 to 0.75 in. Vermont and northern New Hampshire, 0.25 to 0.50 in. remainder. Temperature averaged mid to upper 70s. Temperatures near normal central interior; 5° above normal north, coastal areas.

Days suitable for fieldwork 6.5. Soil moisture 17% very short, 78% short, 6% adequate. Grazing availability 15% very short, 46% short, 38% adequate. Fieldwork progress 1.5 days ahead. Maine potatoes good to excellent. Maine oats 5% harvested; good to excellent. Field corn fair to good south, good to excellent north. Sweet corn 52% harvested, 56% 1986, 54% avg.; fair to good. Shade tobacco good, 75% picked. Outdoor tobacco good, 70% picked. Second crop hay 78% cut, 65% 1986, 75% avg.; fair to good. Third crop hay 32% harvested, 18% 1986, 30% avg.; poor to good. Apples good, size medium; 7% harvested. Cranberries good. Major farm activities: Haying, harvesting of fruits and vegetables.

NEW JERSEY: Temperatures averaged slightly above normal. Extremes 40°; 97°. Rainfall averaged 0.09 in. north, 0.14 in. central, 0.17 in. south. Heaviest 24-hour total 0.32 in. on 22nd, 23rd. Estimated soil moisture percent field capacity averaged 65% north, 52% central, 29% south. Four inch soil temperatures averaged 70° north, 73° central, 75° south.

Current cooler temperatures, lower humidity beneficial. Harvest of late summer vegetables active but declining. Irish potato harvest steady. Some growers not digging yet. Sweetpotato fields need rain. Peach marketing only moderate. Fall apples sized well. Field corn prospects good to very good. Silage making expected to begin next week. Soybean prospects fair to good. Early fields setting pods. Oat combining neared completion. Hay making active. Pasture condition varied.

NEW MEXICO: Temperatures over State slightly above to slightly below normal. Temperature low 35° Quemado, Chama. Temperature high 101° Carlsbad. Precipitation statewide. Heavy amounts many areas; no hail damage.

Days suitable for fieldwork 6.6. Soil moisture 8% short, 75% adequate, 17% surplus. Alfalfa 10% fair, 80% good, 10% excellent. Some rain damage. Fourth cutting underway some areas. Cotton 25% fair, 75% good. Corn 10% fair, 90% good; some spider mite damage eastside. Irrigated grain sorghum 86% good, 14% excellent; 96% heading. Dryland sorghum 80% good, 20% excellent; 98% heading. Winter wheat planting continued, rains slowed field preparation activity. Onion harvest winding down statewide. Potato harvest continued; price not improved to date. Pecans 100% good. Chile 100% good, harvest continued. Apples 33% fair, 67% good; light harvest activity. Range 56% fair, 44% good; continued rain improved conditions, additional rain needed. Cattle 11% fair, 89% good; sheep 100% good.

NEW YORK: Temperatures 1 to 10° above normal. Extremes 33° Boonville, 97° Syracuse. Precipitation near normal. Almost no rain lower Hudson Valley, thunderstorms elsewhere.

Days suitable for fieldwork 6.0. Soil moisture short to adequate. Pastures fair to good. Corn excellent. Second cut alfalfa 85%, 75% 1986, 82% avg. Third cut alfalfa 26%, 11% 1986, 19% avg. Oats 78% harvested, 65% 1986, 69% avg. Conditions remained ideal for vegetable production, bartlett pear harvest underway.

NORTH CAROLINA: Temperatures averaged 1 to 5° above normal. Temperature extremes 52°; 97°. Precipitation ranged from 0.01 to 4.00 in. across State. Storms scattered statewide, but mostly along coast.

Days suitable for fieldwork 6.0. Soil moisture 24% very short, 44% short, 31% adequate, 1% surplus. Pasture 8% very poor, 32% poor, 45% fair, 15% good. Tobacco 2% very poor, 13% poor, 54% fair, 31% good. Flue-cured tobacco 48% harvested, 45% 1986, 54% avg. Burley tobacco 11% harvested, 3% 1986. Peanuts 8% poor, 34% fair, 54% good, 4% excellent. Hay 6% very poor, 30% poor, 53% fair, 11% good. Sweetpotatoes-6% poor, 30% fair, 61% good, 3% excellent. Sweetpotatoes 5% harvested, 4% avg. Corn for silage 37% harvested, 53% 1986, 33% avg. Corn for grain 6% harvested, 3% 1986, 5% avg. Fruit crops fair to mostly good. Truck crops mostly fair. Peaches 90% harvested, 97% 1986, 94% avg. Apples 7% harvested, 7% 1986, 8% avg. Major farm activities: Tobacco related topping, spraying for sucker control, irrigation, harvesting, marketing; harvesting hay, vegetables, peaches, apples, corn silage, corn grain; spraying soybeans, cotton, peanuts; scouting soybeans, peanuts; shearing Christmas trees; tending livestock; preparing equipment for corn for grain harvest; general farm maintenance.

NORTH DAKOTA: Temperatures averaged 5 to 8° below normal. Extremes 34° west central; 92° northwest. Scattered showers, thunderstorms statewide. Precipitation heaviest southeast 1.94 in.

Days suitable for fieldwork 5.7. Topsoil moisture well above average; 13% short, 82% adequate, 5% surplus. Subsoil moisture above normal; 10% short, 90% adequate. Small grain harvest ahead of normal pace. Spring wheat 69% combined, 42% 1986, 55% avg.; durum wheat 52%, 28% 1986, 40% avg.; oats 76%, 59% 1986, 68% avg.; barley 85%, 66% 1986, 78% avg. Row crop development ahead of normal. Sunflower 51% flowers dried and beyond, 29% 1986, 30% avg.; corn 38% denting-dented, 25% 1986, 24% avg.; potatoes 5% dug, 3% 1986, 2% avg.; soybeans 42% lower leaves yellowing, 83% 1986, 23% avg.; dry beans 26% mature and beyond, 11% 1986, none avg.; flax 8% combined, 1% 1986, 8% avg. Pasture growth mostly fair to good. Second cutting alfalfa 86% complete.

OHIO: Warm early, sharp cooling weekend. Extremes ranged upper 80s, lows 90s to 40s, low 50s. Average temperatures 1 to 2° of normal. Precipitation 1.00 to 2.00 in. north central, northeast; elsewhere 0.50 in. or less.

Days suitable for fieldwork 6.8. Soil moisture 79% short, 21% adequate. Corn development well advanced, mostly good; crop could not effectively use rain, storms could become detriment by causing lodging. Soybeans fair to good, need rain to fill pods. Grass, legumes regrowth slow. Hay fair to good, pastures fair; driest areas stands dormant.

OKLAHOMA: Temperatures averaged normal Panhandle, west central to 3° above normal southeast. Precipitation averaged none west central to 1.12 in. northeast.

Days suitable for fieldwork 6.1. Topsoil moisture 45% short, 55% adequate. Subsoil moisture 30% short, 70% adequate. Sorghum 1% poor, 14% fair, 85% good; 80% heading, 75% 1986, 80% avg.; 45% coloring, 40% 1986, 35% avg.; 5% mature, 5% 1986, 5% avg.; none harvested, none 1986, none avg. Cotton 100% good; 85% setting bolls, 85% 1986, 80% avg.; none open bolls, none 1986, none avg. Recent rain, warm temperatures improved row crops. Pastures, livestock good. Cattle marketings stable, prices mixed.

OREGON: Temperatures near normal statewide. Maximums slightly above average southwest; slightly

below average on coast. Nighttime lows below average east of Cascades. Trace amounts of scattered precipitation central coast. Elsewhere dry.

Soil moisture 67% short, 33% adequate. Winter wheat 90% harvested, 92% 1986, 88% avg. Barley 75% harvested, 89% 1986, 87% avg. Grain harvest mostly completed except high eastern counties. Hay harvest also nearly completed. Red clover seed, hop harvest started Willamette Valley. Mint harvest past peak west, central areas. Sugarbeets for seed planted west. Turnips for fall pasture planted Hermiston area. Fall seedbed preparation underway Willamette Valley, Columbia Basin. Early apple varieties picked Hood River, Milton-Freewater, Willamette Valley. Bartlett pears picked Hood River, Medford, Willamette Valley. Peach harvest continued Willamette Valley, Hermiston. Golden, empress plums harvested Milton-Freewater, Hermiston. Evergreen blackberry harvest continued; pruning underway on other caneberrys Willamette Valley. Cranberry development good south coast. Some red seedless table grapes picked Hermiston. Sweet corn harvest for processing, fresh market continued all growing areas. Storage onions about 50% windrowed Willamette Valley. Potato digging full swing Hermiston; processing plants running direct from field. Digging started Klamath Basin. Snap bean, broccoli harvest winding down Willamette Valley. Cantaloupes picked Medford. Watermelon, tomatoes, cucumbers, peppers harvested Hermiston. Field preparation for Walla Walla sweet onions on going at Milton-Freewater. Livestock mostly good. Range, pasture poor to fair except where irrigated west; good due to timely rains east, except high desert country. Recent hot weather concern of dairy producers west, some sprinkled barn roofs to reduce stress. Cattle moved off BLM ranges due to lack of water in high desert country. Movement of yearling cattle to feedlots started Klamath Basin. Some cattle producers buying hay for next winter east.

PENNSYLVANIA: Week began hot, oppressive. Ended cool, comfortable. Autumn like, all over State. Average temperature 72°, 3° above normal. Temperature extremes 43°; 98°. Average precipitation 0.75 in., 0.09 in. below normal.

Days suitable for fieldwork 6.0. Soil moisture 89% short, 11% adequate. Corn 76% dough, 77% 1986, 62% avg.; 27% dent, 21% 1986, 17% avg.; 2% mature, 1% 1986, none avg. Corn 3% very poor, 12% poor, 27% fair, 38% good, 20% excellent. Soybeans 3% very poor, 11% poor, 24% fair, 42% good, 20% excellent. Oats 95% harvested, 95% 1986. Potatoes 27% harvested, 40% 1986. Second cutting alfalfa 93%, 96% 1986. Third cutting alfalfa 49%, 60% 1986. Second cutting clover-timothy 73%, 80% 1986. Quality of hay made, good. Amount of feed being obtained from pastures, below average. Apple 17% harvested, 25% 1986. Peaches 60% harvested, 68% 1986. Activities: Harvesting oats, hay, haylage, fruit, potatoes, other vegetables; fall plowing; machinery maintenance; caring for livestock.

PUERTO RICO: Island average rainfall 1.15 in., 0.58 in. below normal. Highest weekly total rainfall 4.86 in. San Sebastian followed by 4.25 in. Adjuntas, 3.35 in. Paraiso. Highest 24-hour total 2.63 in. San Sebastian. San Juan mean temperature 84°, 2° above normal. Total rainfall 0.30 in., 1.07 in. below normal. Divisional temperature averaged 83 to 84° on coasts, 78° interior, mean station temperature ranging 85° San Juan City to 69° Pico Del Este-Luquillo. Lowest minimum temperature 59° San Sebastian. Highest maximum temperature 95° several places.

SOUTH CAROLINA: Temperatures much above normal, rainfall below normal. Rainfall totaled less than 0.33 in. general across State.

Days suitable for fieldwork 5.8. Soil moisture 13% very short, 59% short, 28% adequate. Cotton 100% setting bolls, 100% 1986, 100% avg.; 7% bolls open, 26% 1986, 27% avg.; 1% very poor, 3% poor, 93% fair, 3% good. Soybeans 85% blooming, 72% 1986, 83% avg. 52% setting pods, 40% 1986, 48% avg.; 2% leaves turning, 1% 1986; no leaves shedding; 1% very poor, 1% poor, 65% fair, 33% good. Tobacco good; 74% harvested, 74% 1986, 79% avg. Corn mostly good; 85% mature, 91% 1986, 84% avg.; 19% harvested, 33% 1986, 23% avg. Peanuts fair to good; 1% harvested. Peaches fair to good; 91% harvested, 98% 1986, 96% avg.

SOUTH DAKOTA: Average temperatures 1° above normal to 6° below normal. Extremes 37°; 96°. Black Hills low 25°.

Days suitable for fieldwork 5.2. Topsoil moisture 7% critically short, 37% short, 55% adequate, 1% surplus. Major activity preparing for fall planting.

TENNESSEE: Statewide showers heaviest southeast, southwest. Temperatures averaged above normal. Extremes 57°; 99°.

Days suitable for fieldwork 5.7. Soil moisture 30% very short, 57% short, 13% adequate. Corn 89% dent, 85% 1986, 75% avg. Corn 40% mature, 45% 1986, 25% avg. Corn 8% poor, 41% fair, 42% good, 9% excellent. Tobacco 87% topped, 70% 1986. Burley 35% harvested, 25% 1986, 25% avg. Dark fired 30% harvested, 25% 1986, 25% avg. Dark air-cured 30% harvested, 15% 1986, 20% avg. Tobacco 1% very poor, 18% poor, 66% fair, 15% good. Cattle mostly fair. Pastures poor to fair. Main activities: Tobacco topping, harvesting; spraying cotton insects; silage harvesting.

TEXAS: Ridge high pressure brought hot, humid weather most State. Front dissipated approached State triggered few thunderstorms along Red River early week, hot, dry weather dominated remainder. Isolated thunderstorms Panhandle weekend strong front moved closer, thunderstorms cropped up west as cooler air spilled from north. Temperatures at or just above normal; portions Plains, south below normal. Week dry eastern, southern areas, some rain west. Lower Rio Grande Valley some rain, amounts below normal. High Plains above normal.

Crops: Corn dried down rapidly Plains under dry, open weather. Many fields dent stage. Silage cutting increased. Grain harvest continued Blacklands, central, south. Most harvest completed Coastal Bend, Rio Grande Valley. Corn 55% harvested, 62% 1986, 45% avg. Grain sorghum fields Plains head out, rapidly turning color. Some insect build ups. Harvest continued Cross-Timbers, Hill Country. Harvest activities winding down central, southern areas. Yields fair to excellent. Cotton Plains good progress. Bollworms increased some fields, spraying underway. Bolls open Southern Low Plains, Cross-Timbers. Bolls continued open Blacklands, central. Harvest to begin central soon. Harvest full swing Coastal Bend, Valley. Cotton 7% harvested, 10% 1986, 8% avg. Rice harvest continued Upper Coast. Yields average. Rice 100% turning color, 100% 1986, 96% avg. Soybeans Plains look good; irrigation necessary. Dryland fields need rain. Fields drying down Upper Coast. Harvest to begin soon early beans. Some fields stressed for moisture. Peanuts continued good progress, many dryland fields need moisture. Harvesting continued south. Irrigation steady Cross-Timbers. Other field crops: Peanuts 1% harvested, 5% 1986, 2% avg. Soybeans 1% harvested, 1% 1986, 1% avg.

Commercial Vegetables: Rio Grande Valley, planting increased. Irrigation steady. Pepper, tomato stands good. Citrus sizing slowed because hot weather. East sweetpotato harvest underway. Some watermelons remained for harvest. High Plains

harvest cabbage, cucumbers, potatoes, melons continued. Carrot harvest continued. Trans-Pecos producers continued monitor pepper fields for insects. Insects increased some tomato fields. Pecans continued suffer lack of water under hot conditions some areas. Considerable drop occurred some places. Webworms, aphids, mites stressed many groves.

Range and Pasture: Grazing conditions declined many areas hot, dry weather continued, range fires increased western areas. Livestock good condition despite decline in forage. Markets strong. Fall shearing continued Hill Country.

UTAH: Precipitation moderate north central, heavy northern mountains, light rest of State. Temperatures 1 to 4° below normal

Days suitable for fieldwork 6.6. Soil moisture 65% short, 35% adequate. Winter wheat 92% harvested, 84% 1986, 79% avg. Barley 82% harvested, 82% 1986, 68% avg. Spring wheat 79% harvested, 70% 1986, 49% avg. Oats 76% ripe, 63% 1986, 70% avg. Oats 50% harvested for grain, 40% 1986, 41% avg. Alfalfa 3rd cutting 9%, 14% 1986, 8% avg. Corn 66% dough, 43% 1986, 37% avg. Peach harvest near midpoint, pear harvest underway. Ranges 13% poor, 56% fair, 31% good. Livestock good to excellent. Grasshopper damage none to light.

VIRGINIA: Hot, humid early in period, more seasonable latter period. Cold front on 19th brought scattered showers averaging 0.25 in. Temperatures averaged 4° above normal.

Days suitable for fieldwork 6.1. Topsoil moisture 95% short, 5% adequate. Drought conditions persist with scattered showers on 19th only relief until weekend. Corn poor. Silage 16% harvested, 10% 1986, 24% avg. Corn for grain 6% harvested, none 1986, 4% avg.; 70% in or beyond dough stage, 78% 1986, 84% avg.; 56% in dent, 54% 1986, 61% avg.; 40% mature, 40% 1986, 35% avg. Soybeans poor; 74% blooming, 79% 1986, 87% avg.; 54% setting pods, 56% 1986, 58% avg. Peanuts good. Spraying active. Flue-cured tobacco good; 17% harvested, 17% 1986, 34% avg. Dark-fire 14% harvested, 10% 1986, 40% avg. Burley 14% harvested, 5% 1986, 10% avg. Sun cured 14% harvested, 30% avg. Peach harvest continued, size small quality good. Apples 16% harvested, 18% 1986, 14% avg. Hay land poor to very poor. Fair northern area. Livestock producers feeding, marketing early. Hay cutting nearly stopped. Fall vegetable planting underway.

WASHINGTON: Hot, dry weather prevailed. Temperatures early week 70s west; 80s elsewhere. Evenings cool. Precipitation most areas negligible.

Days suitable for fieldwork 6.9. Soil moisture 40% short, 60% adequate. Winter wheat 96% harvested, 93% 1986, 87% avg. Field preparation for fall planting continued, seeding underway some areas. Barley, spring wheat respectively 92%, 86% harvested. Pea, lentil yields good as harvest continued in Palouse. Dry beans good, harvest began Grant County. Hop growers expecting to begin harvest 24th, early varieties started 7 days ago. Third crop hay cutting began Kittitas, Stevens Counties, mostly complete elsewhere. Potatoes 10% harvested. Apple harvest began Benton, Walla Walla Counties. Apple maturity most areas early, harvest full swing soon. Pear harvest continued, quality good, excellent. Blueberry harvest winding down west of Cascades. Grape growers prepared for harvest. Roadside stands offered customers full variety of produce. Melons, sweet corn, peppers, tomatoes, cucumbers, squash, leafy vegetables being picked. Carrot harvest continued, Franklin County. Sweet corn ready for harvest Kittitas County. Range, pastures 60% short, 40% adequate. Stockmen

feeding supplemental hay to livestock on range, pasture in some areas. Cattle Kittitas County being moved because of dryness. Fall calving began Garfield County. Hay supplies 80% adequate, 20% surplus.

WEST VIRGINIA: Average temperature 74°, 2 to 6° above normal. Extremes 40° Greenbank; 101° Moorefield. Precipitation averaged 1.55 in.; ranging from 0.12 to 1.47 in. above normal. Southern, northwest divisions respectively.

Days suitable for fieldwork 5.9. Soil moisture 78% very short, 22% short. Farm activities: General maintenance, harvesting hay, tobacco; livestock care. Oats, corn, apples, mostly fair. Second cut hay 77% harvested, 68% 1986.

WISCONSIN: Temperatures averaged 68°, 68° normal. Extremes 37°; 90°. Rainfall 0.10 to 0.80 in. Cooler weather appreciated.

Days suitable for fieldwork 5.5. Soil moisture 10% short, 76% adequate, 14% surplus. Crops 1% poor, 11% fair, 80% good, 8% excellent. Corn 79% in dough, 61% 1986, 55% avg. Corn 44% in dent, 13% 1986, 15% avg. Soybeans excellent, leaves starting to turn. Oats 93% harvested, 85% 1986, 82% avg. Not much left worth harvesting. Hay regrowth good. Third crop better than 2nd. Second crop hay 87% cut, 87% 1986, 86% avg. Third crop hay 24% cut, 24% 1986, 16% avg. Haying slowed by wet soils. Sweet corn good yields. Potato vines drying, early potatoes dug. Pastures continued to improve.

WYOMING: Temperatures mostly below normal. Precipitation spotty, most areas dry.

Days suitable for fieldwork 6.0. Topsoil moisture 49% short, 51% adequate. Winter wheat 100% harvested, 95% 1986, 95% avg. Barley 5% turning color, 20% 1986; 20% mature, 20% 1986; 75% harvested, 60% 1986, 65% avg. Spring wheat 5% turning color, 5% 1986; 20% mature, 40% 1986; 75% harvested, 55% 1986, 60% avg. Oats 10% turning color, 15% 1986; 30% mature, 25% 1986; 60% harvested, 60% 1986, 45% avg. Dry beans 85% setting pods, 95% 1986, 95% avg.; 40% turning color, 60% 1986. Corn 100% tasseled, 100% 1986; 85% silked, 100% 1986; 50% milk, 55% 1986; 25% dough, 35% 1986, 40% avg. Alfalfa 2nd cutting 65%, 80% 1986, 65% avg. Other hay 90% harvested, 85% 1986, 85% avg. Livestock to be wintered. Calf, lamb weights mostly no different from 1986. Stored feed average to above average. Pastures fair to good. Stockwater supplies mostly adequate.

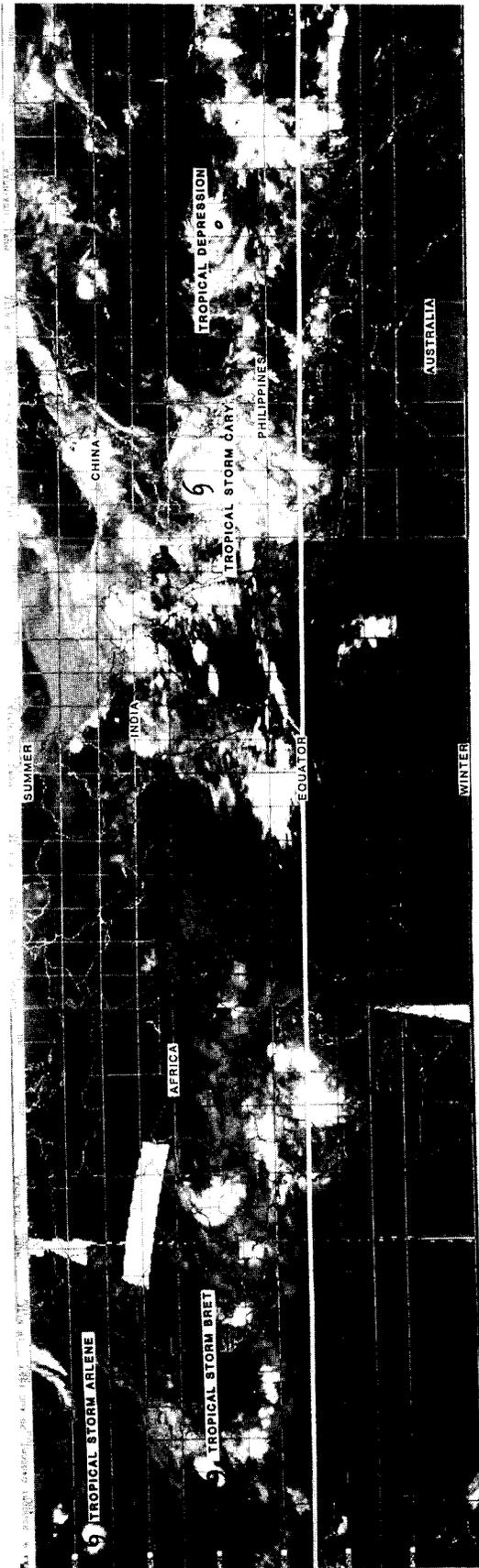
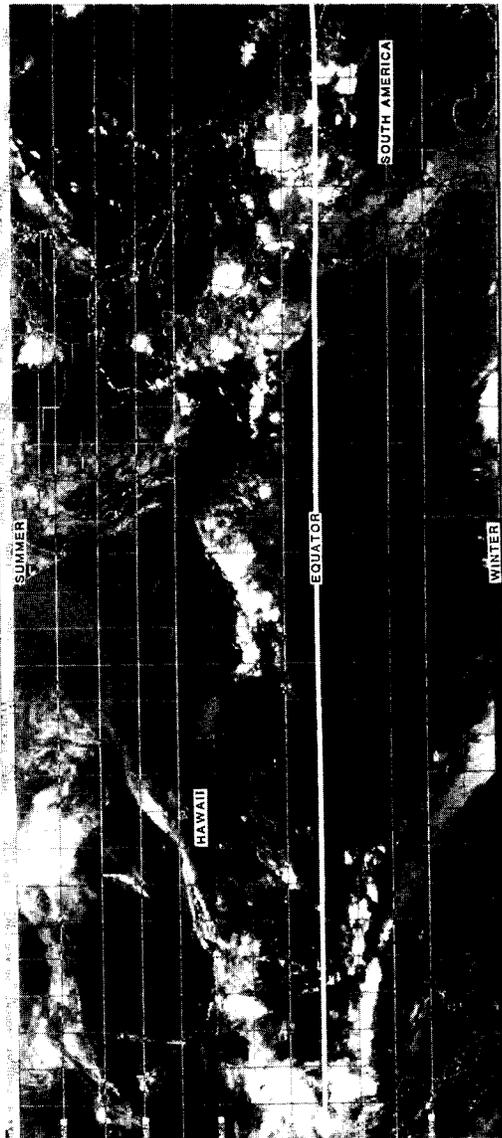
(Continued from p. 13)
gained momentum. Almond harvest was underway, and walnut orchards were prepared for harvest.

VEGETABLES: Florida vegetable growers planted tomatoes, peppers, cucumbers, and squash. Heat stressed young plants in some fields. Land preparation was active in most areas. Vegetable planting increased in the Rio Grande Valley. Cabbage, cucumber, potato, and melon harvest continued in the High Plains. Broccoli, carrots, cauliflower, celery, sweet corn, and lettuce were harvested in California. Fall lettuce planting neared completion at Westside. Celery was transplanted in the Huron District and along the south coast. Fall vegetable planting was underway in western Arizona.

PASTURES AND LIVESTOCK: Livestock was mostly good. Cooler temperatures near the weekend eased stress. Pastures were mostly fair.

Global Weather Satellite Image

August 20, 1987



International Weather and Crop Summary

August 16-22, 1987

HIGHLIGHTS:

UNITED STATES ... Cooler temperatures ease crop stress in the central Great Plains, Corn Belt, Delta, and Southeast. Soil moisture shortage subsides in the central Great Plains and Corn Belt, but the lack of moisture hampered fruit development in the Delta and Southeast. Crops are mostly good in the Corn Belt and northern and central Plains.

U.S.S.R. ... In Western U.S.S.R., widespread showers and continued unseasonably cool weather slow harvesting in the north and corn growth in the south. In the New Lands, wet weather slows spring grain harvesting in the west. Dry weather promotes crop maturation in the east.

EUROPE ... Showers improve moisture levels in the southeast for filling summer crops. Wet weather in the north hinders winter wheat harvesting.

SOUTH ASIA ... Below-normal rainfall persists in southern India's summer crop regions. Brief, moderate showers bring some relief to the northwest.

SOUTHEAST ASIA ... Increased tropical activity brings moderate to heavy showers to crop areas of Southeast Asia and the Philippines, causing local crop damage and flooding.

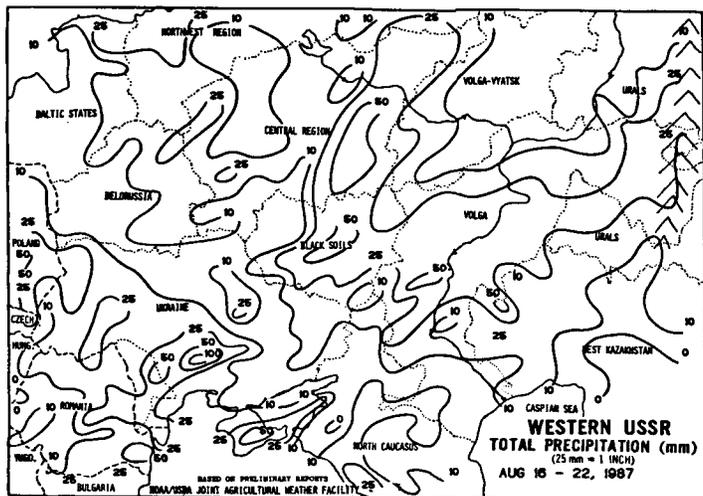
EASTERN ASIA ... Rain favors rice in southern China as well as corn and soybeans in the Manchurian Valley.

CANADA ... Cool, showery weather delays early grain harvest in the Prairies.

SOUTH AMERICA ... In Argentina, showers slow completion of wheat planting in the south. Rain lingers in southern Brazil. Cool, drier weather covers the region late in the week.

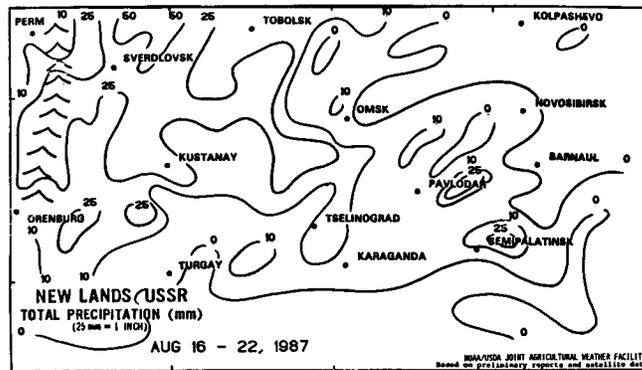
AUSTRALIA ... Light to moderate showers maintain mostly adequate soil moisture levels for Australia's vegetative winter grains.

MEXICO ... Widespread rain benefits crops in the Southern Plateau and northwest.

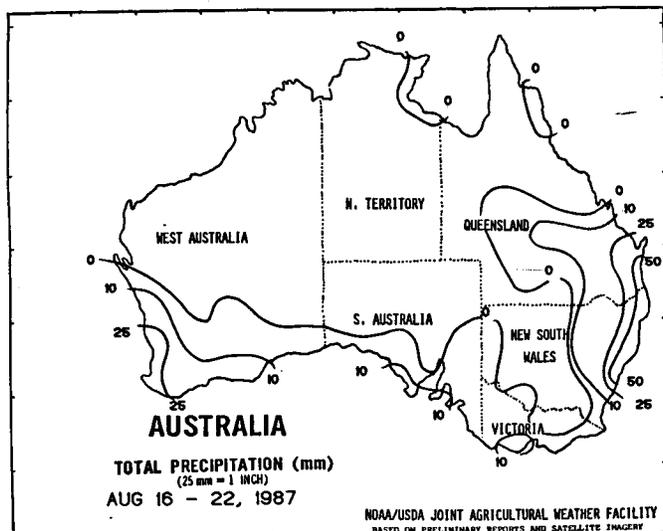


U.S.S.R. ... In Western U.S.S.R., widespread showers continued over northern crop areas, specifically eastern Belorussia, the Black Soils Region, the Central Region, the Northwest Region, the southern Volga Vyatsk Region, and the Volga. Heaviest precipitation (25-70mm) covered crop areas in the eastern portion of the Central Region, the central Black Soils Region, and the Volga, where rain fell on most days during the week. The combination of unseasonably cool weather and frequent showers in these areas likely slowed grain maturation and caused delays in harvesting. The optimum time for planting winter grains in the north is around August 20, and warmer, drier weather is needed for harvest completion so that the 1988 winter grain crop can be planted on time. The optimum time for planting winter grains in major southern winter wheat producing areas is mid-September. In the Ukraine and North Caucasus, scattered showers, some locally heavy

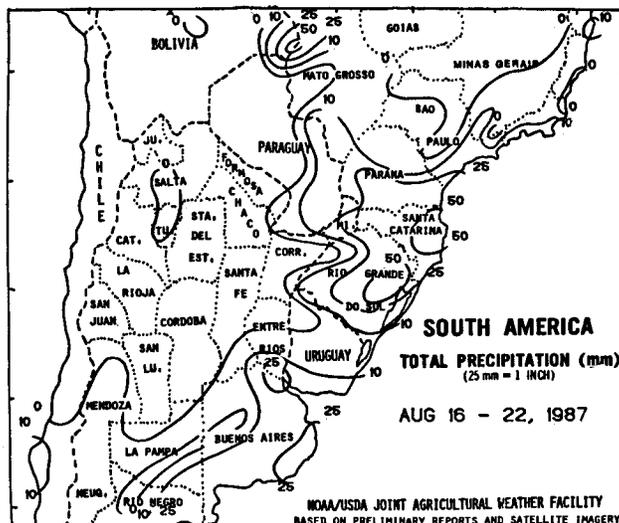
in the southwestern Ukraine, favored corn in the filling stage. Continued unseasonably cool weather in these areas slowed corn growth and warmer weather is needed to promote crop development.



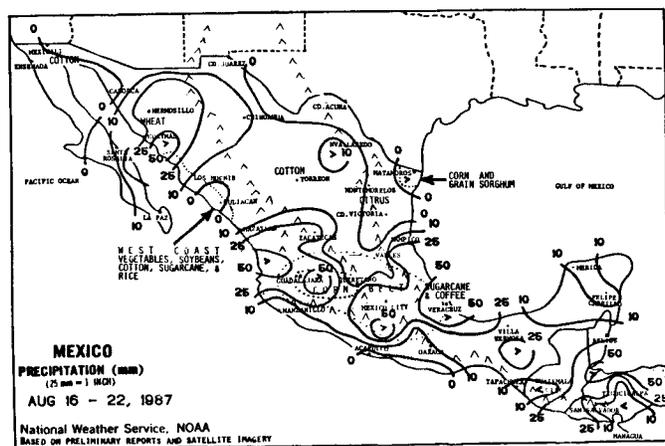
In the New Lands, spring grains were maturing over much of the region. In the southern Urals and Kazakhstan, unseasonably cool, wet weather likely slowed harvest activities. In Western and Eastern Siberia, unseasonably warm, dry weather helped to accelerate crop maturation.



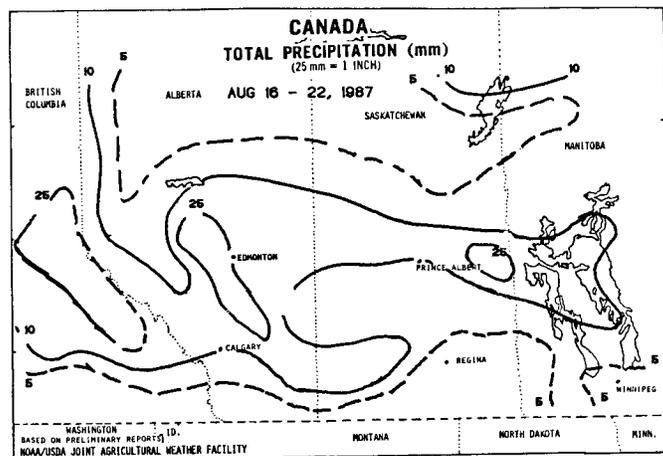
AUSTRALIA ... Light to moderate showers (1-19mm) continued in the winter grain areas of northern New South Wales and southeast Queensland, improving moisture levels for vegetative winter grains. Rainfall increased (10-30mm) in Western Australia's grain regions but remained lighter than normal (1-6mm) throughout Victoria and South Australia. Moisture levels in the south and west are mostly adequate for wheat's normal vegetative growth but seasonal warming is increasing the growth pace, and more moisture is needed for normal development. In September, northernmost winter wheat normally enters the heading stage of development and summer crop planting commences, underscoring the need for more rain in upcoming weeks. Mostly dry weather along Queensland's coast favored sugarcane harvesting.



SOUTH AMERICA ... In Argentina, some rain (10-20mm) fell in southern Buenos Aires, where frequent showers recently slowed completion of wheat planting. Moisture is adequate throughout Argentina's wheat areas for crop emergence and establishment. Cool, dry weather prevailed over wheat areas of Cordoba and Santa Fe. Mostly light showers (1-8mm) covered crop areas of northern Buenos Aires and La Pampa. In Brazil, rain lingered over southern crop areas early in the week keeping Rio Grande do Sul's wheat areas unfavorably wet. Showers (10-50mm or more) extended into southern Parana, while northern coffee and citrus areas were mostly dry. The flowering period for coffee and citrus crops begins in August.

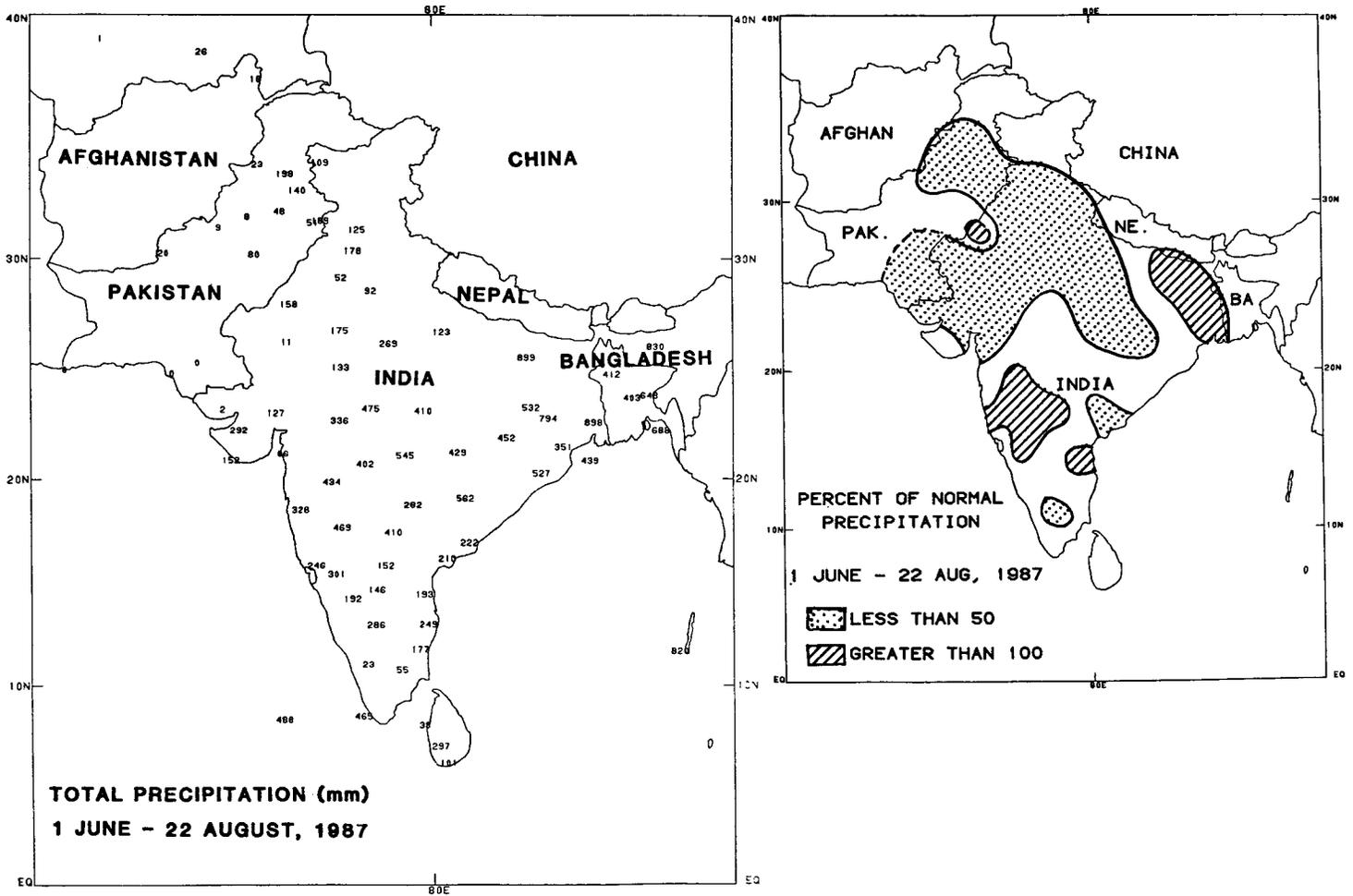


MEXICO ... Widespread showers covered the Southern Plateau corn belt, producing 10-50mm or more in most areas. A pocket of light rain (1-3mm) was confined to north-central portions of the major corn producing region. Substantial rain (10-50mm) also fell in the northwest, improving pre-planting conditions for wheat and benefiting summer crop development along much of the west coast farming region. Light showers (mostly 10mm or less) caused minor interruptions to harvesting in the northeast. Tropical showers covered the south, but weekly rainfall averaged 13mm or less in the Yucatan peninsula.



CANADA ... Cool, showery weather prevailed over the Prairie Provinces. Weekly rainfall averaged 5mm or less across southern portions of the grain belt, while heavier showers (10-25mm) covered northern and west-central crop areas. Weekly temperatures averaged 2-4 degrees C below normal. Crops have reached maturity 1-2 weeks ahead of the average pace, but the frequent light showers and cool weather slowed early harvest progress. In Saskatchewan, most crops reached maturity. About 20 percent of the spring wheat was swathed. Swathing is ready to begin in the north. Alberta's crops are about 60 percent mature.

Indian Monsoon Rainfall Below Normal



Much below-average seasonal monsoon rainfall has persisted throughout much of India and Pakistan, severely hampering crop planting and establishment in rain-fed areas. Temperatures frequently reached near-record levels throughout these areas, stressing irrigated summer crops and drastically lowering irrigation reserves, even in northernmost areas which had experienced a relatively wet winter. The dryness in the north will hurt winter wheat planting, unless late-monsoon and post-monsoon showers develop by October, the normal planting period. The southwest monsoon arrived about 1 month late in summer crop regions of central and southern India, delaying normal planting activities in most groundnut and cotton areas and limiting moisture for development of pre-monsoon planted rice. Following the late onset, periodic dry, warm weather in parts of the south stressed late-planted crops. Since early July, conditions have improved somewhat in east-central India's major rice growing regions. There is about 1 month left in the normal monsoon season in northernmost and northwestern India (see WWCB, Vol. 74, No. 22), diminishing prospects for late plantings and crop recovery before the drier winter months. In contrast to drought plagued areas to the west, frequent, heavy rain since early June in parts of eastern India and Bangladesh have caused widespread flooding.

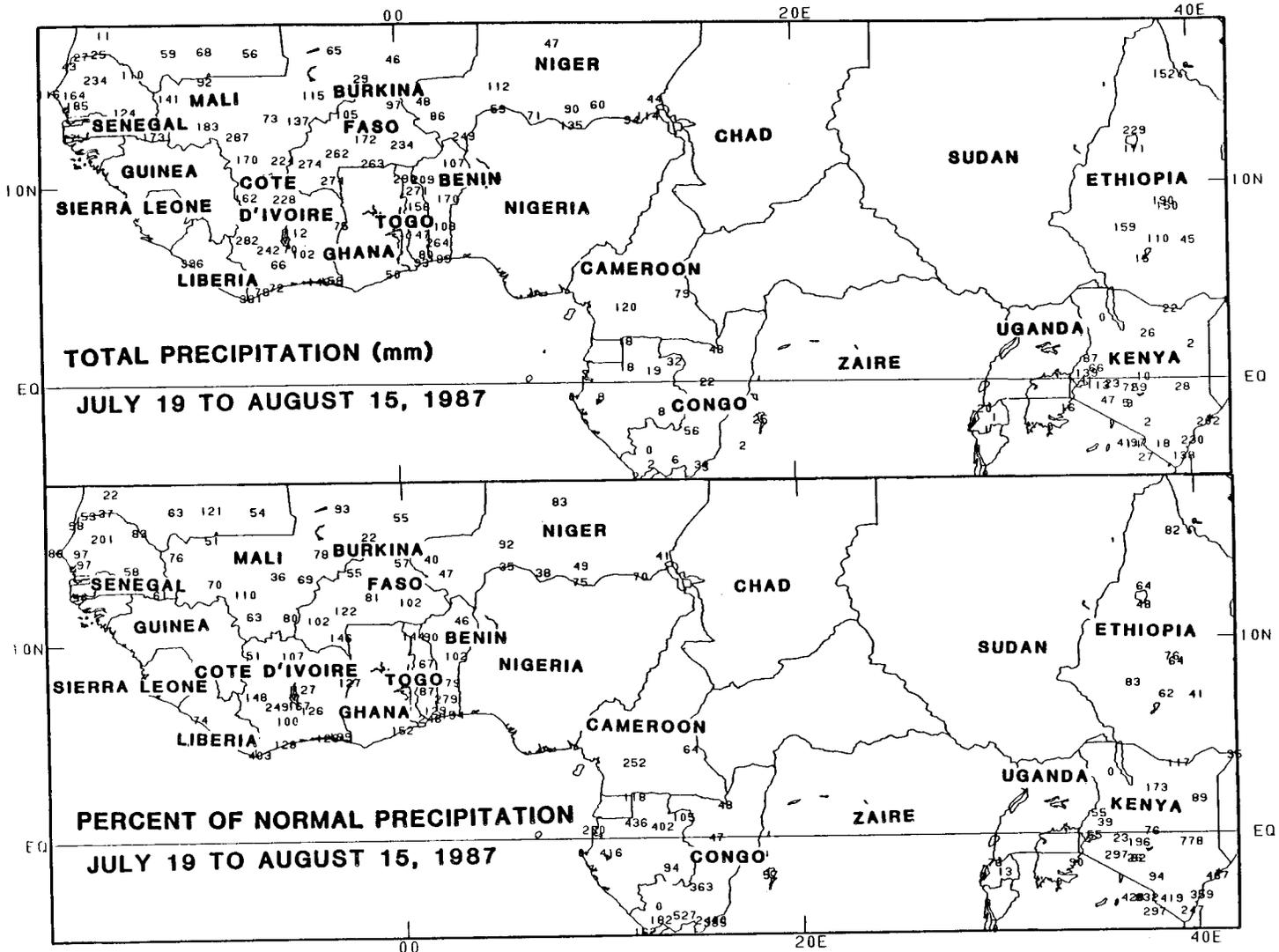
African Agricultural Weather Summary

This overview summarizes current conditions in crop areas where the migratory rainy season and coincident crop growing season are underway. The primary growing season is now concentrated in central Africa, north of the equator.

In western Africa, mostly dry weather continued in southern Cote D' Ivoire and southern Ghana, benefiting maturing grains but stressing replanted crops. Showers in early August, however, brought some relief to late grains in reproduction. Temperatures throughout the Sahel continued above normal in August, reflecting July's warm pattern. Rainfall diminished in August in Mali, northern Burkina Faso, and Niger, reducing moisture reserves for vegetative crops, some of which had been planted late. Warm drier-than-normal weather continued in northern Senegal and southern Mauritania, maintaining unfavorable conditions for late-planted groundnuts and grains in early vegetative stages of development. Beneficial showers fell elsewhere in western Africa, maintaining adequate to good moisture levels

for crops ranging from the vegetative to filling stages of development. As indicated by satellite imagery, frequent showers over Nigeria benefited grains advancing through reproduction in the north but caused some harvest delays in the south. Scattered rain occurred over Chad, increasing in August as the crop normally enters its reproduction phase.

In eastern Africa, recent rainfall brought some relief to grains in northern and eastern Ethiopia, normally in the reproductive to filling stages of development. Minimal rain, however, continued in southern Ethiopia. Moisture levels are too low in all but western Ethiopia for normal crop development. Rainfall continued near to above normal in the west, reflecting this season's favorable weather patterns. Rainfall increased over Kenya in August, relieving earlier dry conditions coinciding with the crop's reproductive cycle. Kenyan corn is currently filling to maturing. As indicated by satellite imagery, showers since July over Sudan benefited crops nearing reproduction. Most dry weather favored harvesting in Somalia.



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National Oceanic and Atmospheric Administration
National Weather Service/Climate Analysis Center
Managing Editor (Acting) Lyle Denny
Meteorologists Tom Heddinghaus,
Ray McInturff, Jim Williams, Wes Byrd,
and Randy Taylor.

Subscriptions (202) 447-7917 . . Andrea Kuiper

U.S. DEPARTMENT OF AGRICULTURE
Economics Management Staff
Editor Sharon Lee
National Agricultural Statistics Service
Agricultural Statistician Clif James
World Agricultural Outlook Board
Agricultural Weather Analysts. . . Ray Motha,
Tom Puterbaugh, and Mark Brusberg

(Continued from p. 24)

in low irrigation levels in northern India, and more rain is needed to replenish irrigation supplies for summer crops in or nearing reproduction and winter wheat planting that usually begins in October. Moderate to heavy rain (10-69mm) continued in parts of northern Pakistan, improving irrigation levels for cotton in the boll forming stage of development. Brief, heavy showers (25-80mm) fell over Gujarat, where hot, dry weather for most of the growing season disrupted normal planting activities. Less than 1 month remains in Gujarat's normal monsoon season, reducing the likelihood of late summer crop planting. Wet weather returned to southern Bangladesh and parts of eastern India, promoting continued flooding of areas already too wet.

(Continued from p. 15)

SPRING WHEAT

STATE	VP	P	F	G	EX
IDAHO	0	2	10	65	23
MONT	0	2	13	62	23
N DAK	0	0	28	72	0
S DAK	3	4	38	53	2

RICE

STATE	VP	P	F	G	EX
ARK	0	2	26	72	0
CALIF	0	0	0	75	25
LA	0	0	25	67	8
MISS	0	20	16	64	0
TEX	0	0	29	68	3

COTTON

STATE	VP	P	F	G	EX
ALA	0	7	38	55	0
ARIZ	0	0	0	85	15
ARK	0	0	18	78	4
CALIF	0	0	0	40	60
GA	0	20	29	47	4
LA	0	0	19	81	0
MISS	0	7	10	81	2
MO	0	0	0	75	25
N MEX	0	0	25	75	0
N C	0	4	74	22	0
OKLA	0	0	0	100	0
S C	1	3	93	3	0
TENN	0	5	29	53	13
TEX	0	1	29	52	18

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