

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

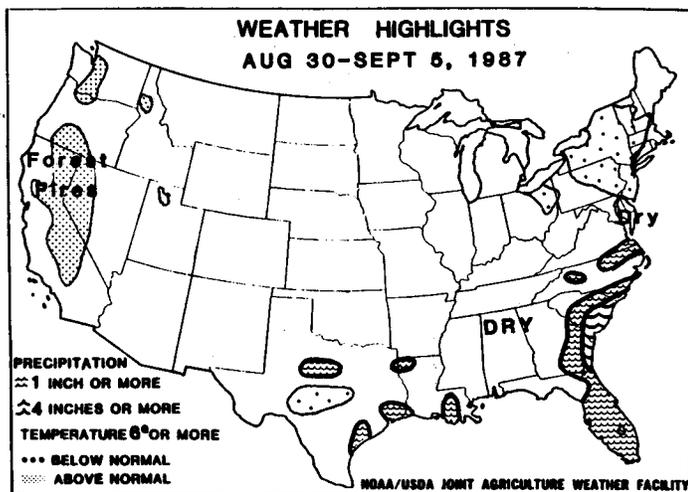
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Sept. 9, 1987

National Weather Summary

August 30 to September 5, 1987



the southeastern coast. Light rain developed from the Great Lakes to New England. Hot weather continued in the West.

WEDNESDAY...Thunderstorms continued over Florida and the Southeast, while light rain reached from east-central Ohio northward and eastward. Much cooler weather moved over much of the West, and a few light showers moistened the forests.

THURSDAY...Thunderstorms became more intense in Florida and the southeastern coast. Light showers became more widespread from the southern Plateau, through the central Rockies, to the northern Plains. The cooler weather enveloped all of the West except the California deserts.

FRIDAY...Thunderstorms became more widespread, covering the Southeast south of Virginia. Heavy storms covered the coastal areas from southern North Carolina through Florida. Showers were concentrating in the West from Arizona and New Mexico through the central Rockies and across the northern Plains.

SATURDAY...Widespread thunderstorms covered the East Coast States to Virginia, while light to moderate rain reached through Pennsylvania and the upper Ohio Valley. Further west, light thundershowers were widespread from New Mexico and western Texas to the northern Plains and western Great Lakes. Moderate thundershowers fell in the Texas Panhandle and northern Wisconsin.

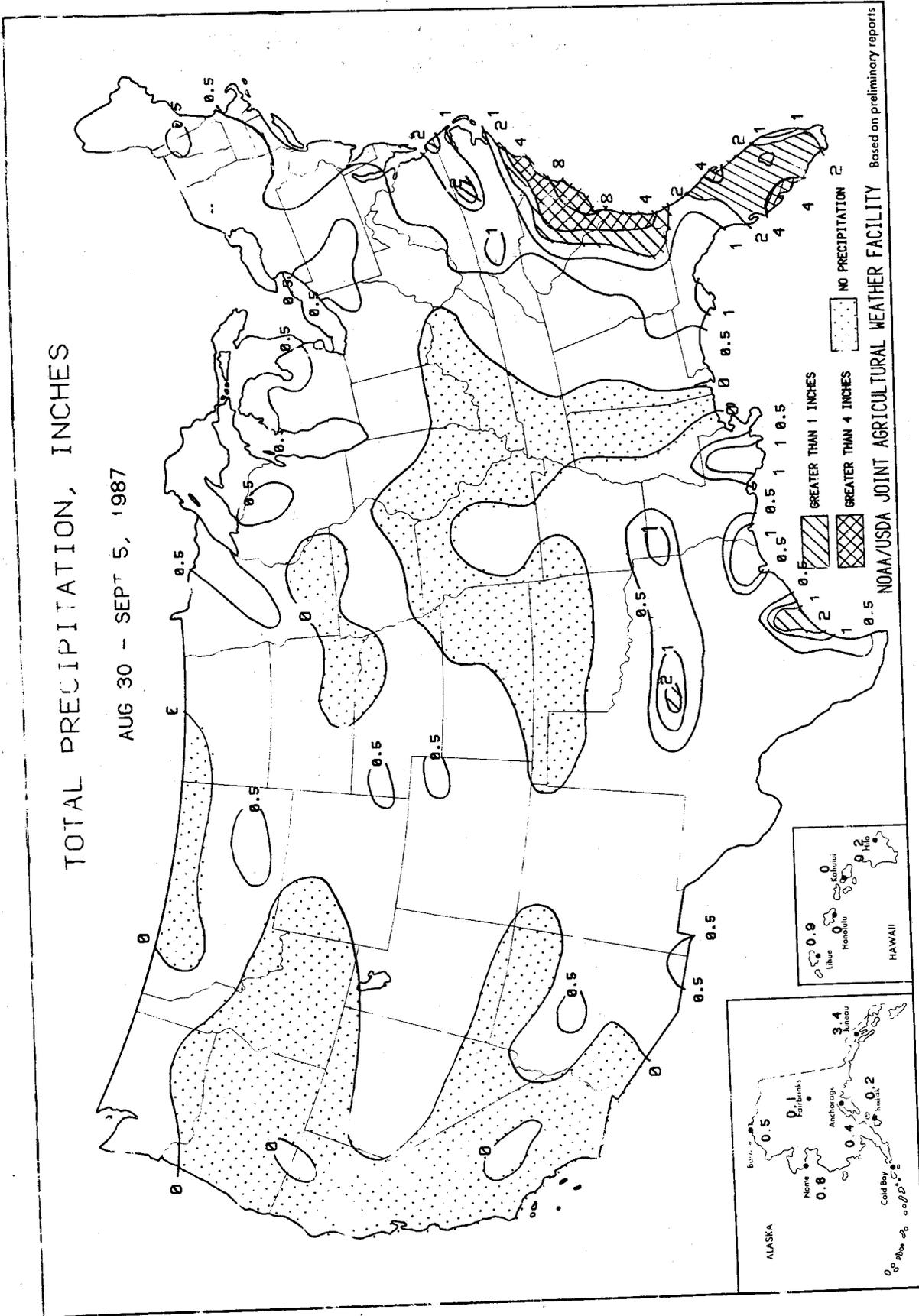
HIGHLIGHTS: Very little rain fell through the interior of the Nation. Thunderstorms occurred almost daily in Florida and along the southeastern coast covering a larger area each day, until thunderstorms reached from Florida and Alabama to Virginia, with rain reaching through Pennsylvania on the last day. Mild temperatures covered most of the East, but the week started with hot weather reaching through the West into southern Canada. At midweek, the weather cooled in the West and a few light showers began to fall. At week's end, showers developed through the Great Plains.

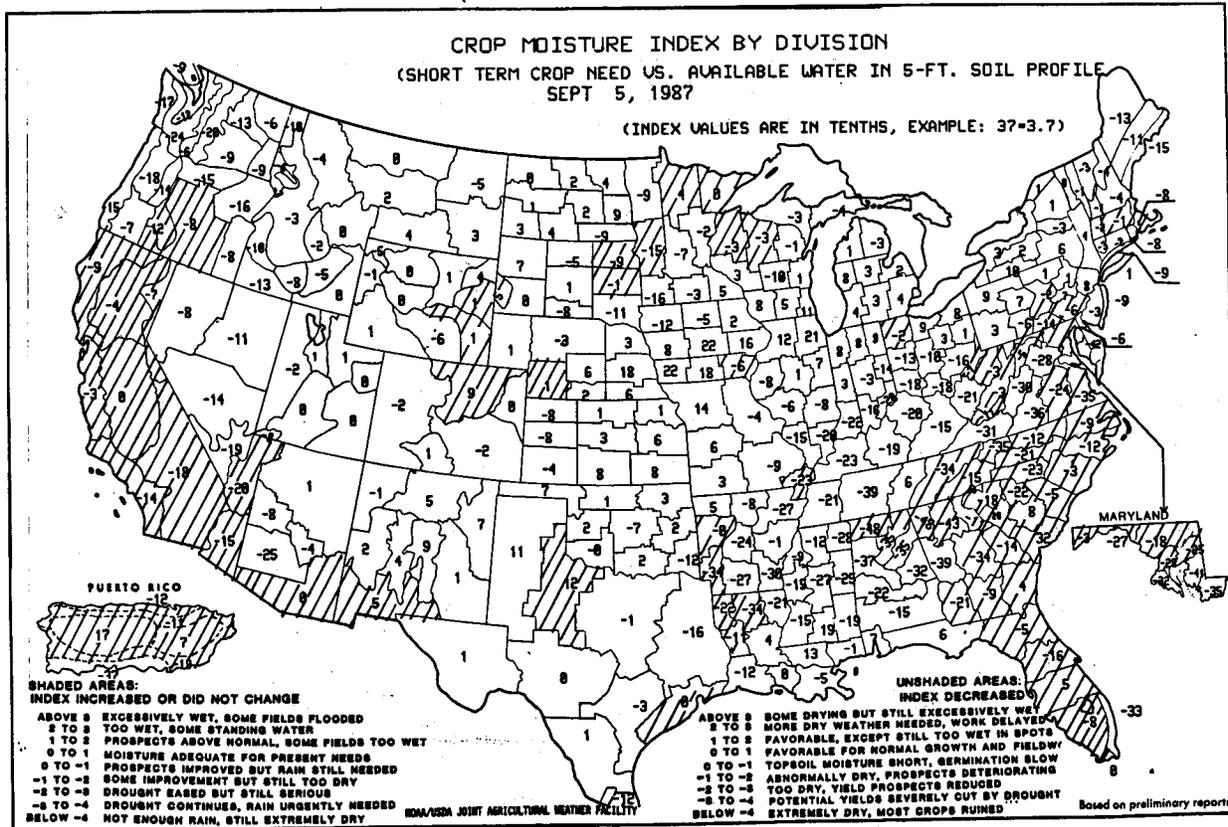
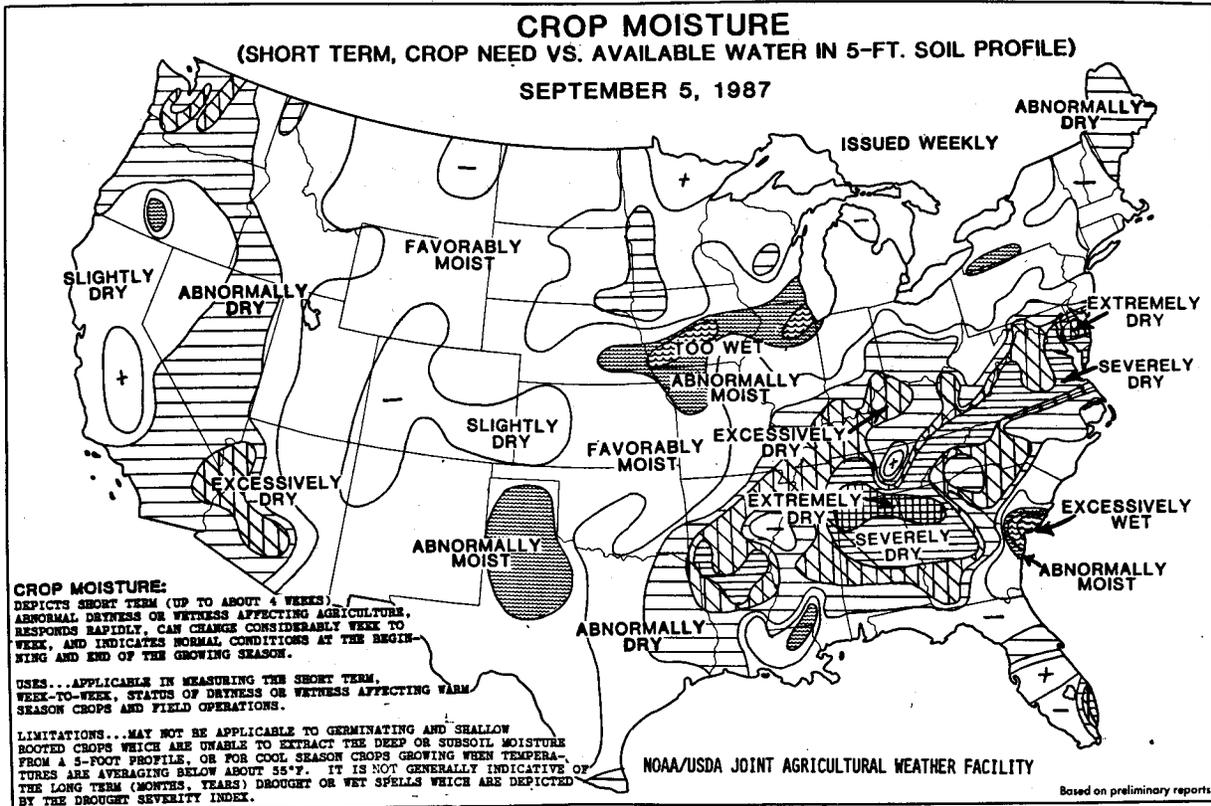
SUNDAY...Showers and thunderstorms developed through most of Texas and across the South and from Florida to North Carolina. Some heavy storms developed along the Texas coast and in isolated parts of the Southeast. Lighter rain spread from the eastern Great Lakes into Indiana. Most of the Nation was relatively cool, but hot weather raged in the West with temperatures reaching near 100 degrees as far north as Oregon.

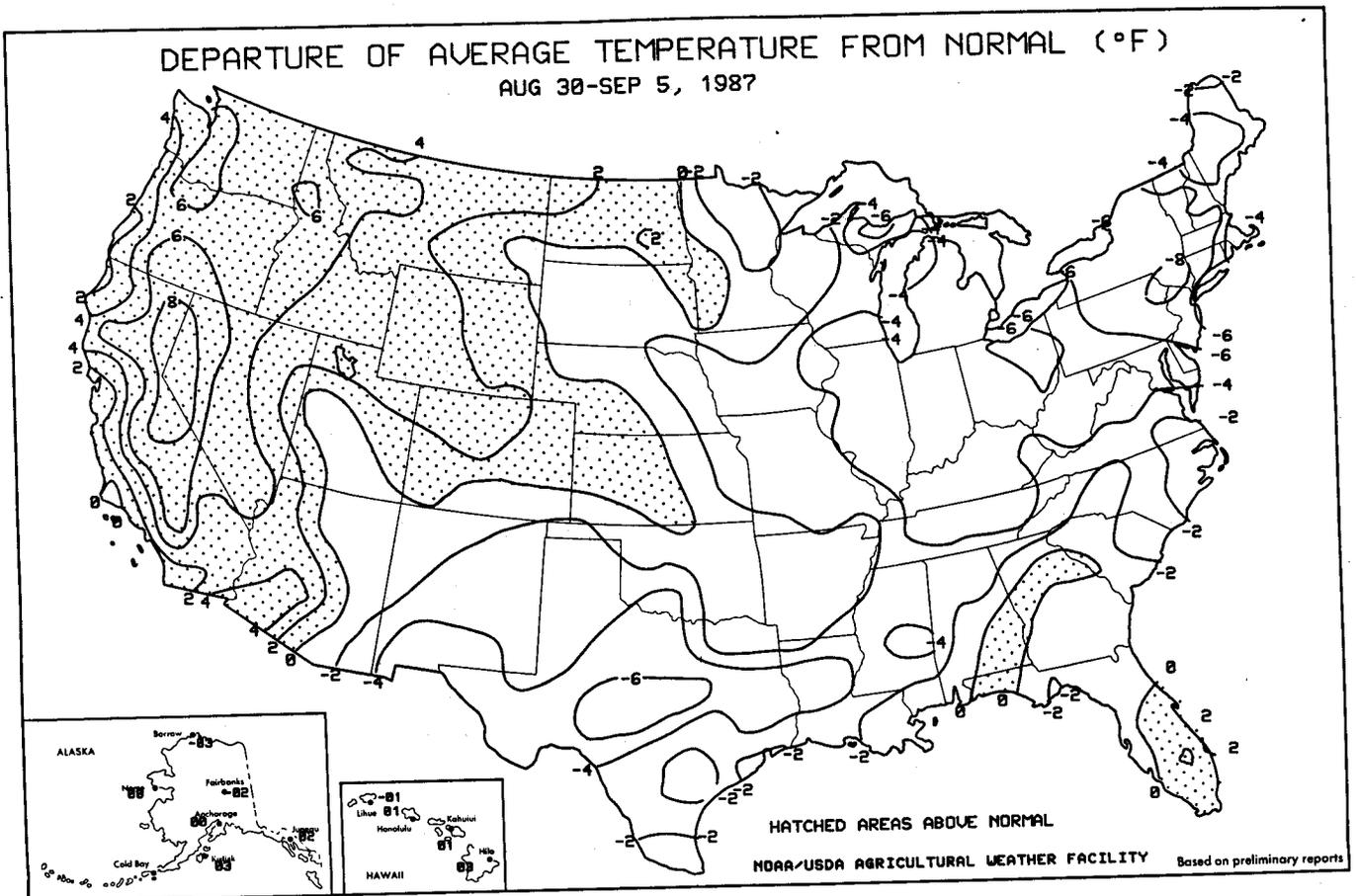
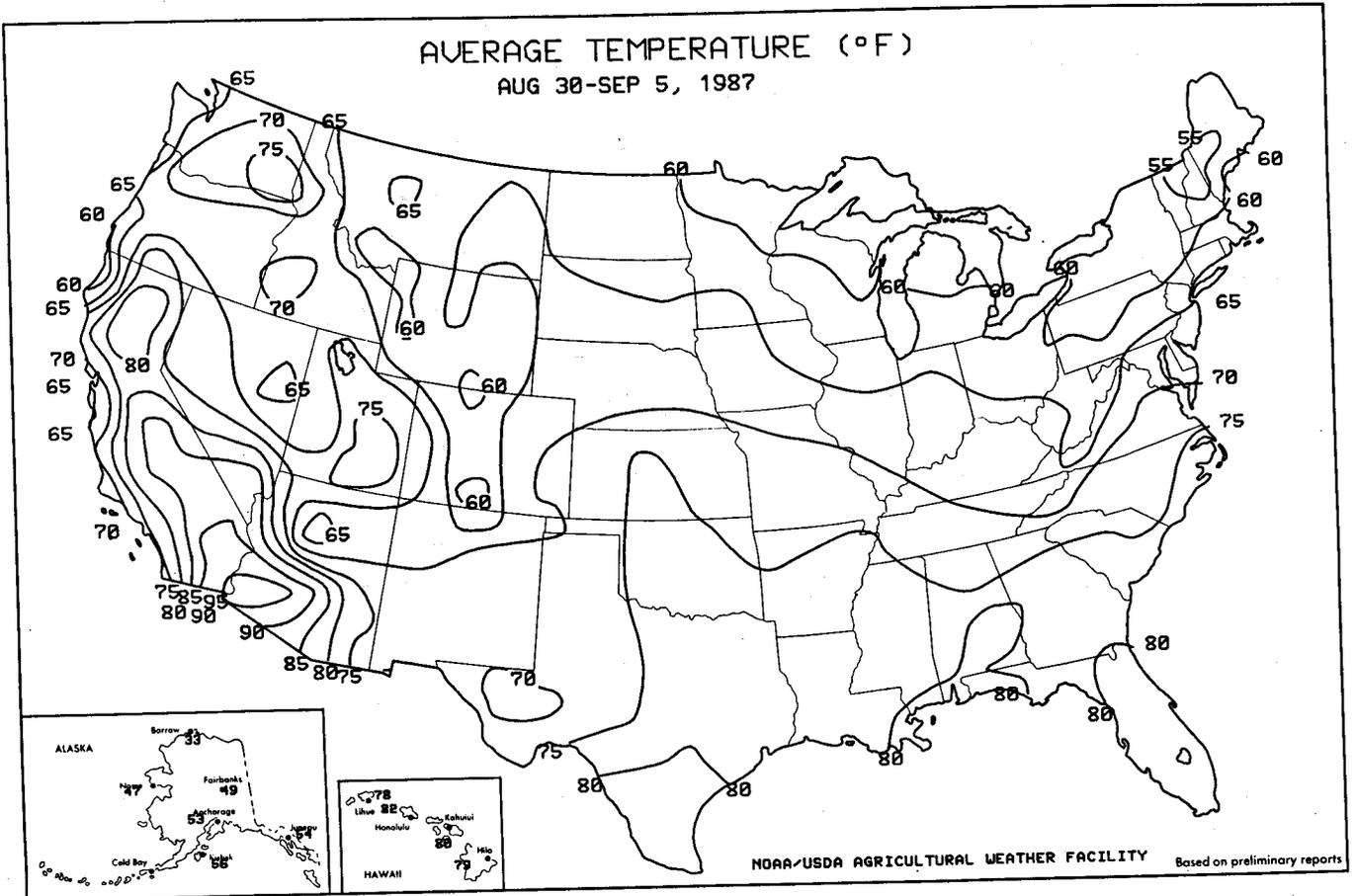
MONDAY...Thundershowers continued across the South and spread over the entire east coast and upper Ohio Valley. Isolated areas all along the east coast had heavy thunderstorms, and other areas had moderate to heavy rain. Hot weather in the West pushed into southern Canada.

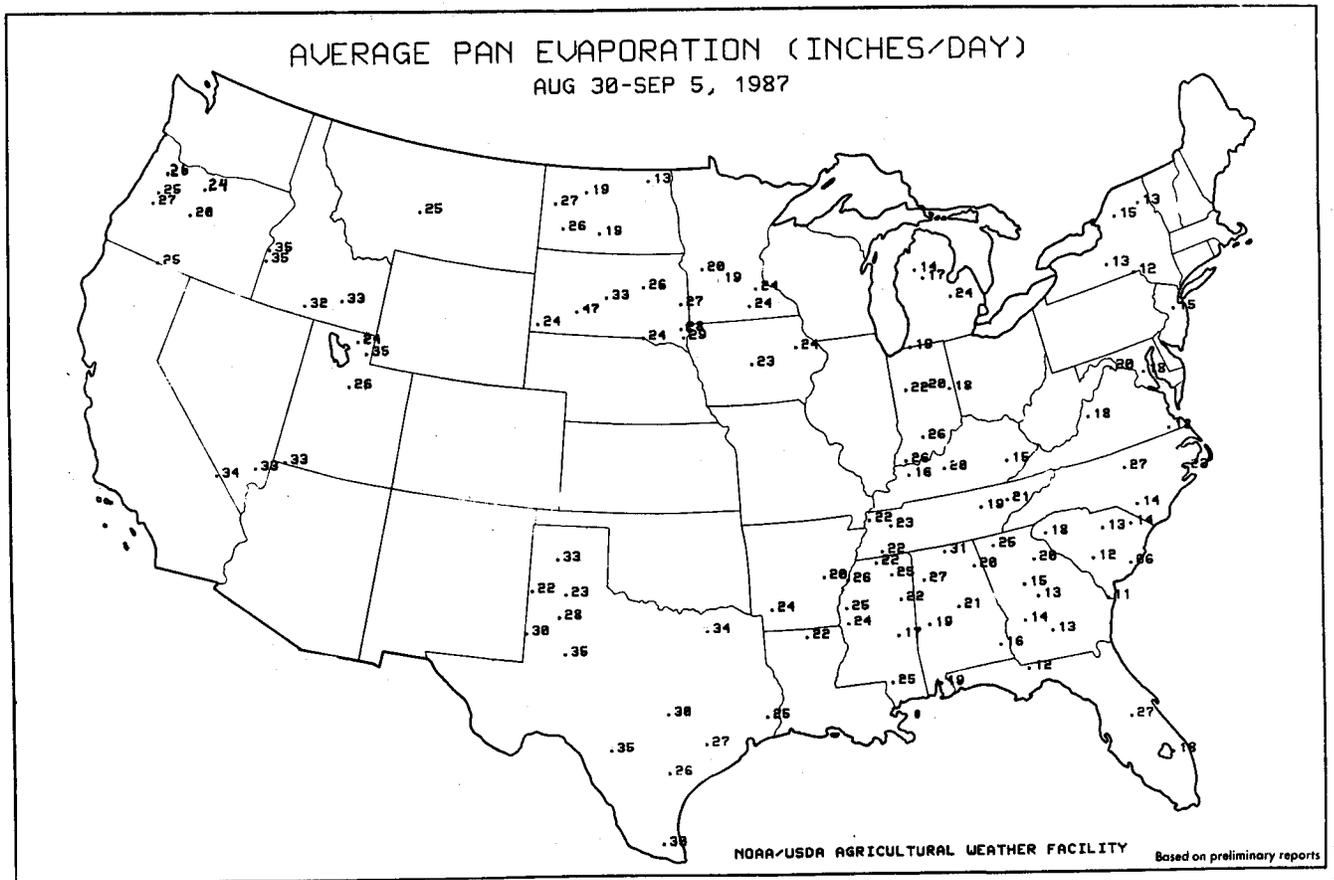
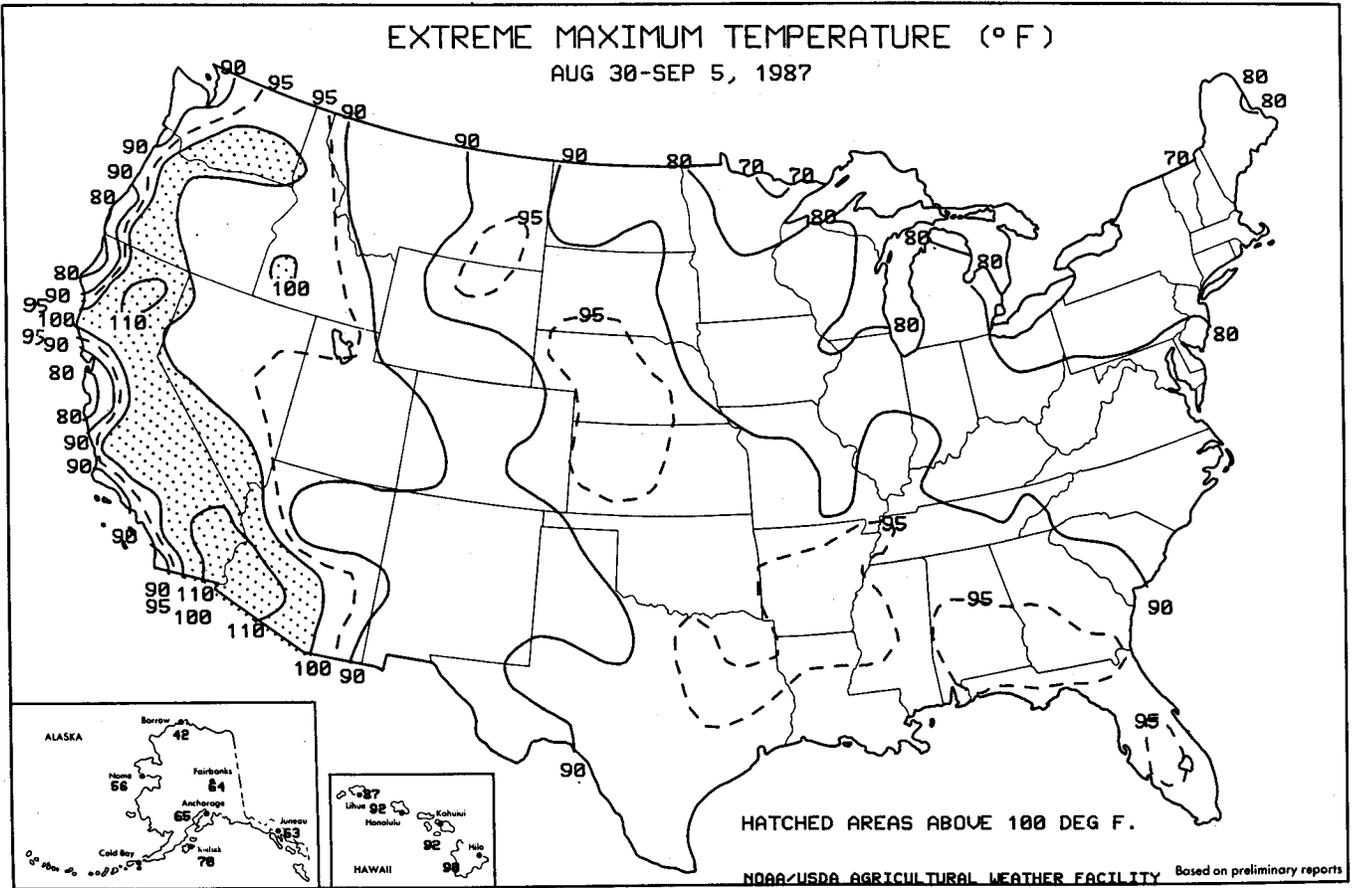
TUESDAY...Thundershowers cleared across the South as cooler air pushed toward the gulf coast, but scattered showers continued in Florida and along

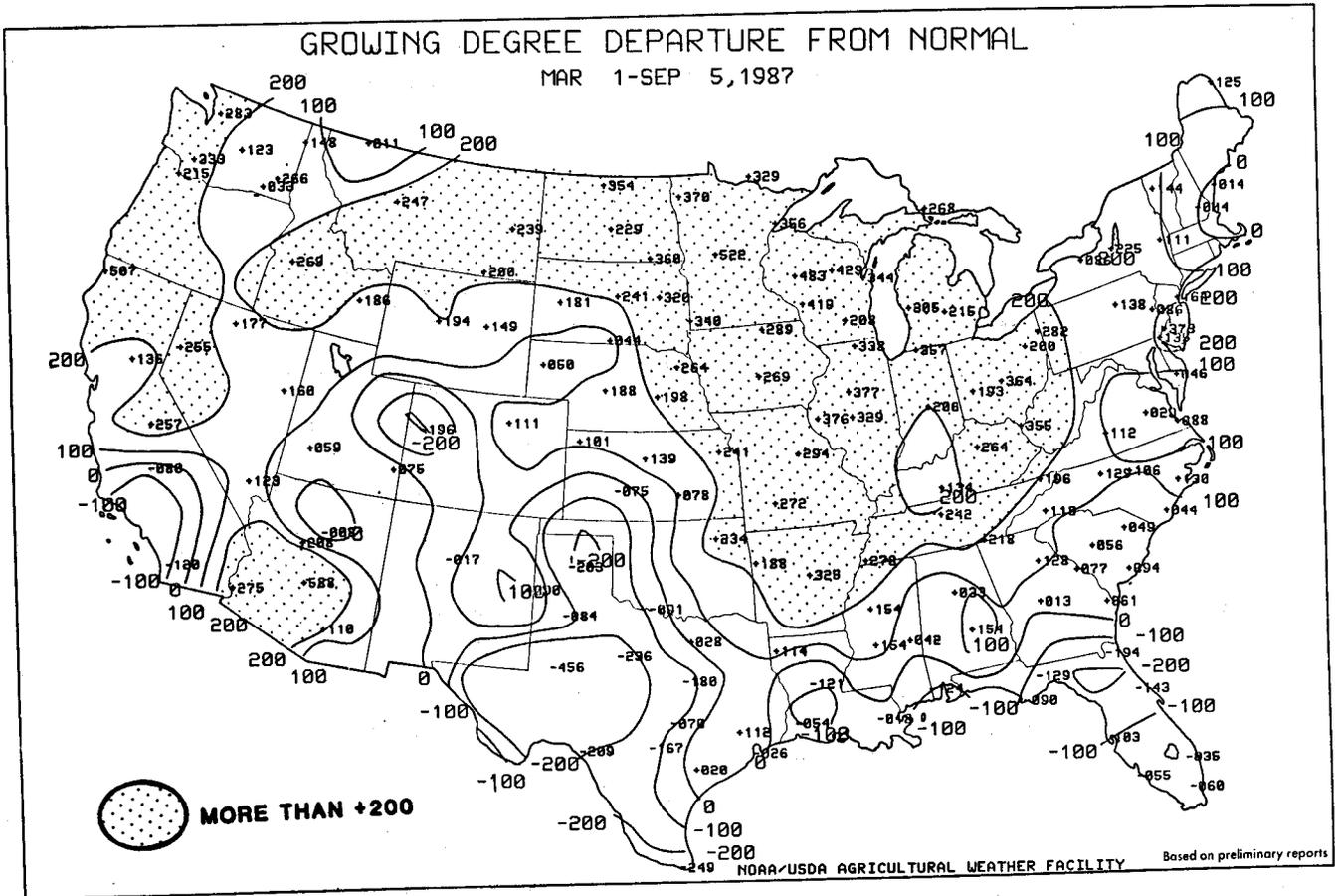
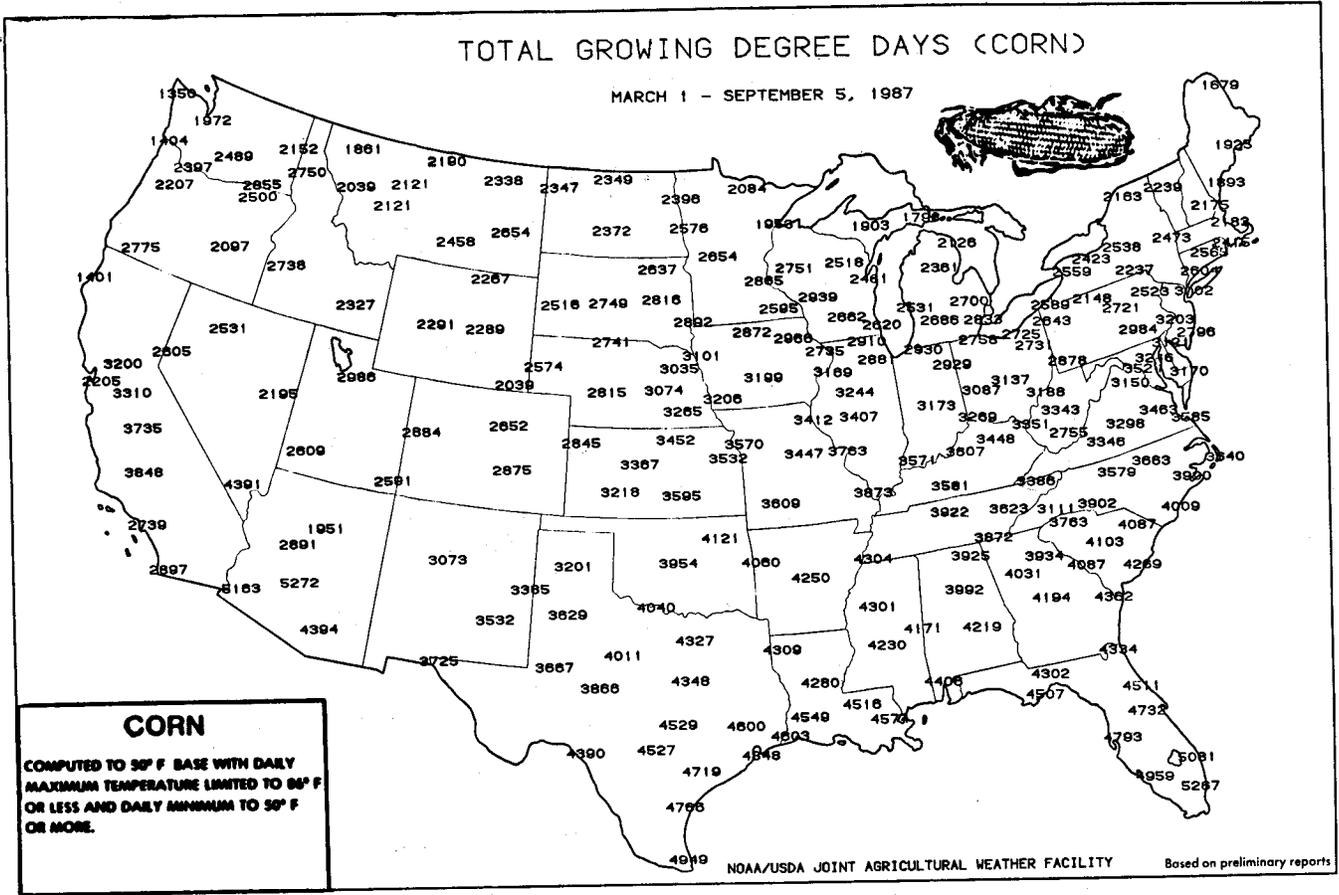
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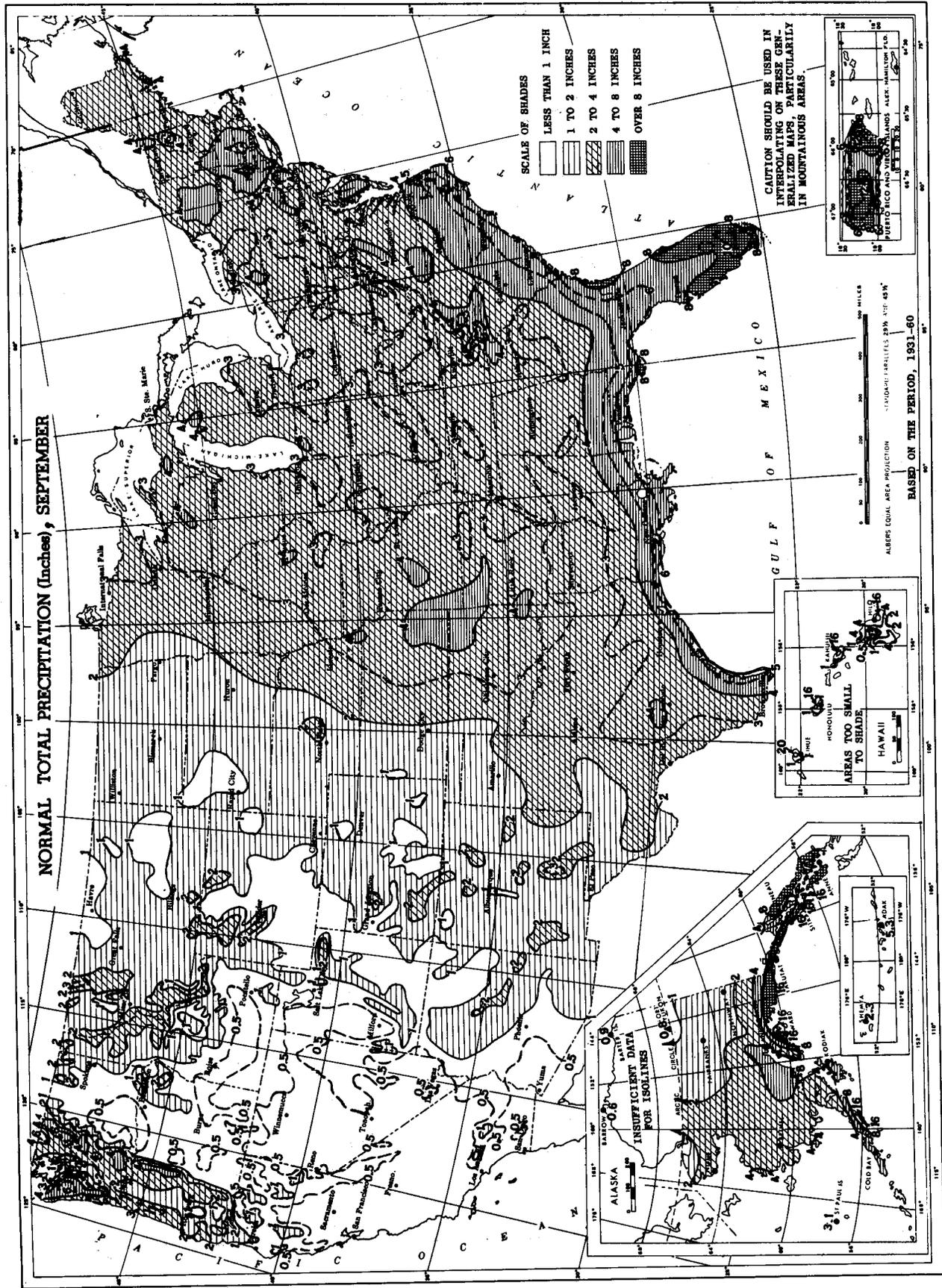












National Weather Data for Selected Cities

Weather Data for the Week Ending September 5, 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 SEPT. 1	PCT. NORMAL SINCE SEPT. 1	TOTAL, IN., SINCE JAN. 1	PCT. NORMAL SINCE JAN. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE		PRECIPITATION		
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE	
AL BIRMINGHAM	88	61	94	55	75	-3	T	T	T	0	29.7	75	89	37	4	0	0	0	0	
MOBILE	88	69	93	66	79	-2	T	T	T	0	54.5	115	92	46	2	0	0	0	0	
AK ANCHORAGE	90	67	96	64	79	-1	.4	.3	.3	32	42.1	120	92	38	5	0	0	2	0	
BARROW	61	47	65	39	54	1	.4	.2	.4	98	7.7	85	84	42	6	6	6	0	0	
FAIRBANKS	36	30	42	27	33	-2	.5	.3	.4	325	3.8	122	96	72	2	2	3	2	2	
JUNEAU	58	39	64	27	48	-3	.1	.1	.1	57	4.5	61	80	37	2	4	4	0	0	
KODIAK	58	58	64	48	54	2	3.4	2.1	1.8	1.2	124	28.7	96	72	2	5	5	2	2	
NOME	64	46	70	48	55	2	.2	.1	.1	.2	18	48.0	129	94	55	0	0	4	4	
AZ PHOENIX	51	41	56	32	46	-1	.8	.2	.3	.8	180	6.7	68	86	57	1	1	4	4	
PRESCOTT	103	81	110	77	92	4	T	T	T	T	0	4.7	105	42	16	7	7	0	0	
TUCSON	86	55	91	51	71	3	.3	.3	.3	.3	81	9.7	72	66	22	2	2	2	2	
YUMA	95	70	103	66	83	0	1.4	1.1	.8	1.4	533	9.4	123	65	27	5	0	3	2	
AR FORT SMITH	108	84	114	79	96	5	T	T	T	T	0	1.1	75	49	17	7	4	0	0	
LITTLE ROCK	91	61	96	56	76	-2	T	T	T	T	0	26.0	95	98	36	4	0	0	0	
CA BAKERSFIELD	90	66	94	62	78	0	.1	-.8	.1	0	24.3	71	65	39	5	0	1	0	0	
EUREKA	101	67	107	56	84	4	.1	.1	.1	50	4.1	105	62	18	7	0	2	0	0	
FRESNO	63	53	71	51	58	1	T	T	T	T	0	18.0	79	94	77	0	0	0	0	
LOS ANGELES	99	69	107	58	84	7	T	T	T	T	0	6.7	95	70	21	6	0	0	0	
REDDING	76	64	82	61	70	-1	0	0	0	0	3.1	36	92	66	0	0	0	0	0	
SACRAMENTO	100	64	111	52	82	3	0	0	0	0	19.3	76	58	17	6	0	0	0	0	
SAN DIEGO	95	60	106	55	77	4	0	0	0	0	8.8	82	80	26	5	0	0	0	0	
SAN FRANCISCO	77	66	85	65	72	0	0	0	0	0	5.1	82	88	66	0	0	0	0	0	
CO DENVER	73	57	77	55	65	1	0	0	0	0	8.5	69	91	55	0	0	0	0	0	
GRAND JUNCTION	82	55	89	51	69	1	.1	-.2	.1	.1	41	15.3	130	77	30	0	0	3	0	
PUEBLO	88	58	92	51	73	1	T	T	T	T	0	7.9	153	53	15	3	0	0	0	
CT BRIDGEPORT	85	55	94	52	70	0	0	-.3	0	0	9.1	105	83	29	2	0	0	0	0	
HARTFORD	73	56	76	53	65	-5	.4	-.4	.4	.4	70	23.5	85	88	45	0	0	3	0	
DC WASHINGTON	75	48	78	44	62	-6	.2	-.7	.2	.2	22	28.9	99	96	41	0	0	2	0	
FL APALACHICOLA	81	62	85	57	71	-4	.1	-.8	.1	.1	16	22.1	81	85	41	0	0	1	0	
DAYTONA BEACH	85	73	92	70	79	-2	2.8	.7	1.4	2.0	179	39.0	102	97	70	2	0	5	2	
JACKSONVILLE	89	73	91	72	81	0	2.9	1.3	1.2	2.9	253	34.1	102	97	67	3	0	4	2	
KEY WEST	89	73	95	72	81	0	5.0	3.2	1.7	4.9	401	35.7	93	99	69	3	0	7	4	
MIAMI	90	80	92	76	85	1	1.2	-.2	.8	1.2	120	26.2	109	86	62	5	0	4	0	
ORLANDO	92	77	93	75	85	2	.4	-1.4	.2	.2	13	26.8	69	88	55	6	0	4	0	
TALLAHASSEE	93	74	96	71	84	1	3.8	2.2	1.2	3.6	310	37.4	100	95	51	6	0	5	3	
TAMPA	92	74	94	72	81	-2	1.3	-.4	1.1	1.3	107	57.7	120	98	65	2	0	4	1	
WEST PALM BEACH	87	71	96	69	79	-1	2.6	.9	1.3	1.3	107	39.3	112	97	67	3	0	5	2	
GA ATLANTA	89	74	94	72	81	-1	.2	-1.6	.1	.2	15	31.4	82	90	53	6	0	5	0	
AUGUSTA	92	77	93	74	84	2	.2	-.6	.2	.2	29	36.2	102	91	43	2	0	1	0	
MACON	85	66	92	63	76	-1	.2	-.6	.2	.2	34	33.7	103	98	63	1	0	4	0	
SAVANNAH	85	69	94	65	77	-1	.7	-.2	.3	.2	3	31.4	93	100	60	1	0	4	1	
HI HILO	84	69	94	65	77	-3	.7	-.2	.5	.7	3	31.4	93	100	60	1	0	4	1	
HONOLULU	84	72	94	70	78	-1	8.1	6.7	3.6	4.4	435	49.1	127	98	73	1	0	5	3	
KAHULUI	88	71	90	69	80	4	.2	-1.6	.2	.2	18	78.3	92	92	59	1	0	2	0	
LIHUE	91	74	94	68	82	2	T	T	T	T	0	3.6	25	86	51	7	0	0	0	
ID BOISE	91	70	92	66	80	2	0	-.1	0	0	0	13.1	87	49	5	0	0	0	0	
LEWISTON	85	72	87	69	79	0	.9	.5	.6	.8	300	16.2	62	95	65	0	0	5	1	
POCATELLO	88	56	101	41	72	4	0	-.1	0	0	0	6.5	85	48	16	4	0	0	0	
IL CHICAGO	88	59	100	51	74	5	0	-.2	0	0	0	8.0	91	47	17	3	0	0	0	
MOLINE	85	47	94	37	66	2	0	-.1	0	0	0	8.4	114	55	15	3	0	0	0	
PEORIA	85	47	94	37	66	2	0	-.1	0	0	0	8.4	114	55	15	3	0	0	0	
QUINCY	78	53	88	44	65	-3	0	-1.0	T	T	0	32.3	133	93	41	0	0	0	0	
ROCKFORD	79	51	88	44	65	-4	0	-.9	T	T	0	28.1	103	93	39	0	0	0	0	
SPRINGFIELD	79	54	89	47	67	-3	0	-.8	T	T	0	18.1	71	91	39	0	0	0	0	
IN EVANSVILLE	79	54	89	47	67	-3	0	-.8	T	T	0	20.4	75	93	38	0	0	0	0	
FORT WAYNE	81	53	88	48	67	-4	0	-1.0	0	0	0	31.0	117	97	46	0	0	0	0	
INDIANAPOLIS	77	51	87	45	64	-4	0	-.9	0	0	0	18.9	76	92	33	1	0	0	0	
SOUTH BEND	83	54	91	45	68	-3	0	-.8	0	0	0	22.2	74	96	31	2	0	0	0	
IA DES MOINES	87	53	94	46	70	-3	0	-.7	0	0	0	23.9	97	96	44	0	0	1	0	
SIOUX CITY	77	51	86	47	64	-5	.4	-.3	.4	.4	0	23.3	83	89	34	1	0	1	0	
WATERLOO	82	53	90	44	68	-3	T	-.7	T	T	0	21.6	82	91	40	0	0	1	0	
KS CONCORDIA	77	52	85	45	65	-4	.1	-.8	.1	.1	11	21.6	82	91	40	0	0	1	0	
DODGE CITY	80	56	88	49	68	-2	.2	-.6	.2	.2	38	28.9	124	91	47	0	0	2	0	
GOODLAND	79	54	86	47	67	-3	.1	-.6	.1	.1	6	21.5	108	98	47	0	0	1	0	
TOPEKA	77	51	87	45	64	-4	T	-.7	T	T	0	25.1	101	93	45	0	0	1	0	
WICHITA	86	61	95	57	73	1	.1	-.7	.1	.1	9	29.3	139	79	35	3	0	1	0	
KY BOWLING GREEN	86	61	95	57	73	1	.1	-.4	.1	.1	17	20.6	125	83	33	4	0	1	0	
LEXINGTON	86	55	96	53	71	1	.1	-.3	.1	.1	43	16.9	129	83	29	2	0	1	0	
LOUISVILLE	86	57	92	50	72	-1	T	-.8	T	T	0	29.6	120	95	39	2	0	1	0	
LA ALEXANDRIA	87	62	93	55	75	-1	T	-.8	T	T	0	31.8	153	88	39	2	0	0	0	
BATON ROUGE	85	53	89	45	69	-5	0	-.8	0	0	0	29.2	83	98	36	0	0	0	0	
LAKE CHARLES	84	56	89	49	70	-3	0	-.8	0	0	0	26.4	78	84	32	2	0	0	0	
NEW ORLEANS	86	58	90	50	72	-2	0	-.8	0	0	0	23.9	77	88	32	2	0	0	0	
	87	63	92	57	75	-6	.3	-.5	.3	T	7	38.5	101	96	50	3	0	2	1	
	88	68	93	64	78	-3	1.7	.6	1.6	0	0	52.0	128	91	53	3	0	2	1	
	89	68	95	63	79	-2	.1	-.3	.1	0	0	44.2	122	93	45	4	0	2	0	
	89	72	93	66	80	0	T	-1.4	T	0	0	52.7	123	91	51	4	0	2	0	

Based on 1951-80 normals.

Weather Data for the Week Ending September 5, 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 SEPT. 1	PCT. NORMAL SINCE SEPT. 1	TOTAL, IN., SINCE JAN. 1	PCT. NORMAL SINCE JAN. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	TEMPERATURE °F		PRECIPI- TATION
																		.01 INCH OR MORE	.50 INCH OR MORE	
SHREVEPORT	91	65	96	60	78	-2	1.2	.5	1.2	0	0	28.8	94	93	38	5	0	1	1	0
ME CARIBOU	70	43	80	35	56	-2	.2	-.7	.2	.2	34	17.6	73	97	43	0	0	2	2	0
PORTLAND	73	46	77	39	60	-3	.1	-.6	.1	.1	27	28.0	101	94	42	0	0	1	1	0
MD BALTIMORE	78	56	82	51	67	-6	.4	-.6	.2	.1	18	24.4	83	93	42	0	0	2	2	0
SALISBURY	80	56	82	52	68	-5	T	-1.1	T	T	0	25.1	79	95	45	0	0	1	1	0
MA BOSTON	73	55	77	52	64	-5	.4	-.5	.4	.4	59	30.3	105	89	44	0	0	1	1	0
CHATHAM	70	57	74	55	63	-2	1.5	.5	1.4	1.5	225	33.5	110	92	63	0	0	3	1	1
MI ALPENA	71	43	83	34	57	-4	.6	-.2	.6	T	0	15.0	75	99	50	0	0	2	1	1
DETROIT	75	52	81	49	63	-4	.1	-.1	.1	.1	12	25.9	118	98	45	0	0	2	2	0
FLINT	74	49	83	45	61	-4	.5	-.2	.2	.2	29	16.1	78	100	48	0	0	4	0	0
GRAND RAPIDS	74	50	84	43	62	-4	.3	-.5	.2	.2	38	20.8	91	97	44	0	0	2	0	0
HOUGHTON LAKE	71	46	82	32	58	-3	.1	-.6	.1	.1	18	14.4	75	92	44	0	1	3	2	0
LANSING	74	50	84	42	62	-3	.1	-.6	.1	.1	19	17.6	85	95	42	0	0	1	4	0
MARQUETTE	67	44	83	32	56	-6	.3	-.6	.2	.1	15	21.9	107	93	53	0	1	4	0	0
MUSKEGON	73	51	83	43	62	-4	T	-.7	T	T	0	20.5	99	93	47	0	0	0	0	0
SAULT ST. MARIE	67	45	80	33	56	-3	.7	-.2	.5	T	6	17.6	82	97	54	0	0	3	3	0
MN ALEXANDRIA	73	52	81	43	63	0	.7	0	.5	.7	143	13.1	69	90	45	0	0	2	1	1
DULUTH	68	48	78	41	58	-1	.7	-.1	.7	.7	115	14.6	67	96	55	0	0	2	1	1
INT'L FALLS	66	47	72	39	56	-1	.2	-.5	.1	.2	35	16.7	95	96	58	0	0	4	0	0
MINNEAPOLIS	77	55	85	47	66	0	0	0	0	0	0	27.0	134	84	44	0	0	0	0	0
ROCHESTER	76	51	86	45	63	0	.9	.1	.9	.9	149	21.0	100	91	47	0	0	1	1	1
MS GREENWOOD	90	61	96	52	76	T	T	-.7	T	T	0	30.5	81	91	32	4	0	0	0	0
JACKSON	90	62	95	56	76	T	T	-.9	T	T	0	37.8	101	98	36	5	0	0	0	0
MERIDIAN	88	61	94	54	75	T	T	-.8	T	T	0	42.3	109	97	41	3	0	0	0	0
MO CAPE GIRARDEAU	88	56	94	50	72	T	T	-.9	T	T	0	25.4	80	91	34	2	2	0	0	0
COLUMBIA	85	56	91	49	71	-3	.2	-.7	.2	.2	0	20.2	77	91	33	2	0	0	0	0
KANSAS CITY	84	59	92	52	72	-3	0	-1.0	0	0	0	25.0	96	89	42	2	0	0	0	0
SAIN'T LOUIS	83	60	90	54	71	-3	0	-.6	0	0	0	23.5	96	83	36	1	0	0	0	0
SPRINGFIELD	85	58	91	48	72	-2	.2	-.6	.2	.2	36	31.9	117	94	41	1	0	1	1	0
MT BILLINGS	77	53	89	48	65	1	.6	.3	.5	.6	200	11.7	106	80	34	0	0	3	1	1
GLASGOW	80	52	92	44	66	3	T	-.3	T	T	0	8.6	96	77	26	1	0	0	0	0
GREAT FALLS	79	52	87	47	65	3	T	-.3	T	T	0	12.2	102	70	24	0	0	0	0	0
HAVRE	80	46	92	39	63	1	T	-.3	T	T	0	7.0	76	80	25	2	0	0	0	0
HELENA	83	48	92	41	66	5	T	-.2	T	T	0	8.7	97	74	22	2	0	0	0	0
KALISPELL	79	44	87	40	62	3	0	-.3	0	0	0	12.8	116	91	27	0	0	0	0	0
MILES CITY	79	51	95	46	65	-1	.2	-.1	.2	.2	110	11.3	102	71	27	1	0	2	0	0
MISSOULA	82	46	90	39	64	0	0	-.2	0	0	0	8.7	93	79	21	1	0	0	0	0
NE GRAND ISLAND	84	56	95	48	70	0	.1	-.5	.1	.1	31	22.0	119	84	37	2	0	1	0	0
LINCOLN	82	57	90	49	69	-1	.1	-.7	.1	.1	15	25.8	121	91	44	1	0	1	0	0
NORFOLK	81	54	89	44	68	-1	T	-.5	T	T	3	22.2	116	90	41	0	0	1	0	0
NORTH PLATTE	84	52	95	45	68	0	.1	-.3	.1	.1	43	15.6	98	93	32	1	0	0	1	0
OMAHA	80	59	89	51	69	-1	0	-.9	0	0	0	27.6	119	85	53	0	0	0	0	0
SCOTT'S BLUFF	83	50	95	48	67	0	.6	.4	.6	.6	322	20.8	174	87	28	2	0	2	1	1
VALENTINE	84	49	100	39	67	0	T	-.4	T	T	0	18.0	126	79	27	1	0	0	0	0
NV ELY	84	41	92	34	62	1	T	-.1	T	T	17	8.7	135	64	20	2	0	1	0	0
LAS VEGAS	101	74	106	67	87	3	T	-.1	T	T	0	3.4	123	36	14	7	0	0	0	0
RENO	90	52	96	46	71	7	T	-.1	T	T	25	6.1	124	63	15	3	0	1	0	0
WINNEMICCA	91	47	99	31	69	5	T	-.1	T	T	0	6.9	133	36	13	4	1	0	0	0
NH CONCORD	73	41	78	34	57	-6	.2	-.5	.1	.1	21	24.8	104	98	40	0	0	2	0	0
NJ ATLANTIC CITY	76	50	80	47	63	-2	.8	0	.4	.8	146	31.7	109	95	45	0	0	2	0	0
NM ALBUQUERQUE	84	58	87	55	71	-2	T	-.3	T	T	0	7.0	126	71	23	0	0	0	1	1
CLOVIS	83	60	86	57	72	-2	.8	.4	.8	.8	244	19.6	155	85	35	0	0	0	1	1
ROSWELL	87	59	90	57	73	-2	T	-.5	T	T	0	13.1	178	85	31	1	0	0	0	0
NY ALBANY	71	46	77	41	59	-7	.4	-.4	.3	T	2	22.0	92	100	50	0	0	2	0	0
BINGHAMTON	67	48	74	40	57	-6	.7	-.1	.7	T	0	23.5	94	98	52	0	0	1	1	1
BUFFALO	71	51	77	45	61	-5	.2	-.7	.2	.2	34	27.2	110	89	45	0	0	3	0	0
NEW YORK	75	60	78	57	68	-5	.8	-.1	.8	T	3	31.7	109	91	45	0	0	2	1	1
ROCHESTER	70	48	76	40	59	-7	.3	-.4	.1	.1	27	22.6	106	99	50	0	0	2	0	0
SYRACUSE	72	48	81	39	60	-6	.2	-.6	.2	.2	33	19.8	75	94	47	0	0	2	0	0
NC ASHEVILLE	77	57	84	51	67	-4	.8	-.1	.6	.8	116	31.5	101	96	50	0	0	3	1	1
CHARLOTTE	81	66	87	60	73	-3	1.2	.4	1.2	1.2	187	25.5	82	94	55	0	0	2	1	1
GREENSBORO	78	64	82	61	71	-3	1.0	-.1	.7	.7	113	33.6	111	93	54	0	0	2	1	1
HATTERAS	82	71	85	69	77	0	1.9	.5	1.2	1.5	148	46.4	126	94	64	0	0	3	1	1
NEW BERN	84	70	86	68	77	0	.3	-1.2	.3	.3	28	41.9	109	94	61	0	0	2	0	0
RALEIGH	79	64	84	58	71	-3	3.8	2.9	3.4	.3	53	30.8	102	95	62	0	0	3	1	1
WILMINGTON	83	69	87	68	76	-2	4.1	2.6	2.8	3.5	321	40.8	104	99	68	0	0	4	3	3
ND BISMARCK	76	50	87	37	63	0	.2	-.2	.1	.2	62	16.8	81	95	42	0	0	1	0	0
FARGO	75	50	87	39	62	-1	.3	-.3	.3	.3	69	12.3	81	90	42	0	0	1	0	0
GRAND FORKS	75	46	87	35	61	-1	.2	-.4	.2	.2	46	16.2	115	93	40	0	0	0	0	0
WILLISTON	80	50	91	40	65	2	T	-.3	T	T	0	10.7	100	78	29	1	0	0	0	0
OH AKRON-CANTON	72	51	78	46	61	-6	.5	-.3	.4	T	8	21.8	84	95	50	0	0	2	0	0
CINCINNATI	81	54	86	45	68	-4	0	-.7	0	0	0	24.7	86	90	36	0	0	0	0	0
CLEVELAND	73	51	78	45	62	-6	.2	-.5	.1	.1	10	28.6	115.	94	48	0	0	2	0	0
COLUMBUS	78	53	83	47	66	-4	.1	-.6	.1	T	2	19.2	70	92	38	0	0	2	0	0

Based on 1951-80 normals.

Weather Data for the Week Ending September 5, 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 SEPT. 1	PCT. NORMAL SINCE SEPT. 1	TOTAL, IN., SINCE JAN. 1	PCT. NORMAL SINCE JAN. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE °F		PRECIPITATION		
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE	
DAYTON	80	52	85	47	66	-4	T	-6	T	0	0	18.5	73	91	32	0	0	1	0	
TOLEDO	76	48	85	44	62	-5	4	-2	T	2	2	19.9	88	98	44	0	0	2	0	
YOUNGSTOWN	70	47	77	40	59	-8	3	-4	T	4	4	27.8	105	98	55	0	0	2	0	
OK OKLAHOMA CITY	89	64	91	59	76	-1	0	-7	0	0	0	32.5	145	79	32	0	0	0	0	
TULSA	89	64	92	57	76	-2	0	-9	0	0	0	30.2	111	84	34	0	0	0	0	
OR ASTORIA	73	49	83	46	61	1	1	-5	T	T	T	32.7	84	96	56	0	0	1	0	
BURNS	86	45	95	33	66	3	0	-1	T	T	T	7.1	100	**	**	4	4	0	0	
MEDFORD	93	56	106	48	74	6	6	-1	T	T	T	9.4	86	74	17	4	4	0	0	
PENDELTON	87	57	99	47	72	4	4	-1	T	T	T	5.6	75	49	19	3	3	0	0	
PORTLAND	90	58	102	51	74	0	0	-3	0	0	0	19.5	92	85	26	4	4	0	0	
SALEM	89	51	100	42	70	5	5	-3	0	0	0	21.9	97	86	25	4	4	0	0	
PA ALLENTOWN	75	50	78	46	62	-7	5	-5	T	T	T	29.8	98	98	46	0	0	2	2	
ERIE	72	56	78	50	64	-3	5	-4	T	T	T	28.4	109	85	51	0	0	0	0	
HARRISBURG	76	53	81	49	64	-7	5	-8	T	T	T	21.6	80	93	42	0	0	0	1	
PHILADELPHIA	79	55	81	53	67	-5	5	-4	T	T	T	24.3	80	93	42	0	0	0	1	
PITTSBURGH	74	53	81	49	63	-5	3	-4	T	T	T	29.8	112	96	51	0	0	2	3	
SCRANTON	71	48	77	43	60	-7	8	-1	T	T	T	25.4	107	99	50	0	0	2	1	
RI PROVIDENCE	75	51	76	49	63	-5	6	-3	5	5	5	25.9	87	95	40	0	0	2	4	
SC CHARLESTON	83	70	89	68	77	-3	13.4	12.1	6.0	9.8	1.3	163	43.3	117	97	67	1	0	3	
COLUMBIA	83	68	90	64	75	-4	5.8	4.6	2.5	1.4	185	28.9	87	100	67	0	0	3	1	
FLORENCE	81	67	87	64	74	-4	1.8	7	9	6	74	34.3	94	96	55	0	0	2	1	
GREENVILLE	82	64	88	60	73	-2	6	-5	6	6	74	34.3	94	96	55	0	0	2	1	
SD ABERDEEN	80	50	90	32	65	0	6	-1	9	9	325	10.8	75	88	35	1	1	1	1	
HURON	80	51	89	38	65	-1	4	-1	3	4	168	16.1	109	90	39	0	0	2	2	
RAPID CITY	82	50	95	45	66	0	2	-1	2	2	79	11.0	82	79	31	2	2	1	1	
SIoux FALLS	81	53	90	41	67	0	0	-7	T	T	T	13.2	71	90	38	1	0	0	0	
TN CHATTANOOGA	86	60	90	53	73	-3	0	-9	T	T	T	35.8	97	95	37	1	0	1	0	
KNOXVILLE	85	57	90	48	71	-4	0	-7	0	0	0	27.5	82	94	35	2	2	0	0	
MEMPHIS	89	65	93	57	77	-1	0	-9	0	0	0	27.4	74	80	35	3	0	0	0	
NASHVILLE	88	57	92	49	72	-4	0	-9	0	0	0	19.0	55	91	28	3	0	0	0	
TX ABILENE	87	63	90	61	75	-5	1.2	5	1.1	1.1	0	19.1	118	85	34	2	1	1	1	
AMARILLO	83	57	90	52	70	-3	1.1	5	1.1	1.1	303	16.3	108	90	35	1	1	1	1	
AUSTIN	89	70	93	65	79	-3	2	-2	2	2	0	27.0	131	89	43	5	0	2	1	
BEAUMONT	90	68	93	61	79	-3	1.5	2	1.4	0	0	40.5	107	98	47	4	0	4	0	
BROWNSVILLE	92	73	95	66	83	-1	10	-9	1	1	10	15.5	105	96	51	6	0	4	0	
CORPUS CHRISTI	89	71	91	68	80	-3	3.3	1.9	2.1	0	0	25.6	128	94	55	4	0	2	2	
DEL RIO	89	67	91	65	78	-5	2	-4	2	2	0	20.2	179	84	38	4	0	1	0	
EL PASO	87	60	91	55	73	-5	3	0	3	3	121	7.0	138	83	27	1	0	2	0	
FORT WORTH	91	67	95	61	79	-3	T	T	T	T	0	18.7	88	85	33	5	0	2	0	
GALVESTON	88	74	91	72	81	-1	T	-1.3	T	T	0	27.6	106	87	45	3	0	2	0	
HOUSTON	85	67	95	60	79	-3	1.1	0	1.1	0	0	29.1	95	96	44	5	0	1	1	
LUBBOCK	80	61	90	57	73	-2	2	-3	2	2	43	14.5	111	96	43	1	0	1	0	
MIDLAND	89	60	92	55	74	-3	0	-4	0	0	0	11.9	128	88	32	4	0	0	0	
SAN ANGELO	87	61	92	55	74	-6	3	-3	2	0	0	24.9	211	95	41	2	6	2	0	
SAN ANTONIO	91	66	95	62	79	-3	1	-7	1	1	0	30.5	159	92	38	0	0	2	1	
VICTORIA	91	70	93	66	80	-2	2.6	1.3	2.4	0	0	31.8	133	97	44	5	0	2	1	
WACO	91	64	96	59	77	-6	5	-1	5	0	0	20.5	98	96	41	5	0	1	0	
WICHITA FALLS	90	63	93	61	77	-4	2	-5	2	2	0	25.9	141	88	34	5	0	1	0	
UT BLANDING	84	54	91	52	69	2	2	0	2	2	131	13.7	186	68	42	1	0	1	0	
CEDAR CITY	87	53	93	50	70	2	2	-2	T	T	0	7.4	104	61	20	2	2	0	0	
SALT LAKE CITY	87	57	95	47	72	2	1	-2	T	T	36	9.1	84	58	16	4	0	2	0	
VT BURLINGTON	72	47	78	40	60	-4	T	-8	T	T	2	17.2	75	97	40	0	0	2	0	
VA NORFOLK	80	67	83	62	73	-2	8	-3	5	5	68	30.6	96	90	56	0	0	2	1	
RICHMOND	81	61	85	58	71	-3	1.6	7	1.1	1.1	168	29.7	97	96	46	0	0	2	2	
ROANOKE	80	56	85	47	68	-4	2.4	1.6	2.1	2.1	382	34.4	125	91	41	0	0	2	1	
WA COLVILLE	86	51	97	47	68	6	2	0	2	2	125	12.8	115	62	35	2	0	1	0	
QUILLAYUTE	77	49	94	42	63	5	2	-6	4	4	55	55.3	92	97	45	1	0	2	0	
SEATTLE-TACOMA	82	56	92	50	69	7	4	-4	0	0	0	19.4	91	89	36	2	0	0	0	
SPOKANE	83	52	94	43	68	3	0	-2	T	T	0	11.3	109	69	24	2	2	0	0	
YAKIMA	88	51	98	43	69	4	0	-1	0	0	0	4.6	95	79	24	3	0	0	0	
WV BECKLEY	74	52	80	44	63	-3	7	-2	7	7	103	29.2	95	90	43	0	0	1	1	
CHARLESTON	78	53	82	47	66	-6	5	-3	5	5	86	26.1	84	98	40	0	0	2	0	
HUNTINGTON	81	54	87	49	68	-5	1	-7	1	1	11	23.6	79	96	38	0	0	1	0	
PARKERSBURG	78	53	84	46	65	-6	2	-5	2	2	33	17.8	64	96	40	0	0	2	0	
WI GREEN BAY	73	49	84	43	61	-2	1	-7	1	1	18	14.9	75	93	44	0	0	1	0	
LACROSSE	78	53	87	47	65	-1	1	-8	1	1	8	26.5	118	91	42	0	0	1	0	
MADISON	75	48	84	42	62	-3	T	-8	T	T	2	21.3	94	95	45	0	0	1	0	
MILWAUKEE	73	54	83	50	64	-3	3	-4	3	3	64	28.1	127	89	50	0	0	1	1	
WAUSAU	74	50	84	43	62	-1	6	-4	5	5	8	16.6	72	95	41	0	0	2	1	
WY CASPER	79	48	91	41	64	0	5	3	4	4	409	11.1	129	86	27	1	0	2	0	
CHEYENNE	77	48	85	40	62	0	1	-2	1	1	50	12.6	116	78	30	0	0	4	0	
LANDER	79	50	90	39	65	0	2	-1	2	2	218	12.2	125	73	25	1	0	2	0	
SHERIDAN	77	50	95	47	63	0	4	2	3	3	222	11.4	101	91	33	1	0	2	0	
PR SAN JUAN	89	76	91	76	83	1	8	-6	4	4	27	42.2	127	96	78	3	0	4	0	

Based on 1951-80 normals.

August Weather and Crop Summary

AUGUST WEATHER SUMMARY

HIGHLIGHTS: Precipitation was bountiful from central Wyoming through the southern Great Lakes to west-central Pennsylvania. More than double the normal precipitation accumulated from central Iowa through northern Illinois and southern Wisconsin. On the other hand, very dry weather plagued most of Minnesota and part of Wisconsin. This provided ample moisture for most of the western Corn Belt and the northern Corn Belt. However, the area from northeastern Missouri through the Ohio Valley to eastern Maryland and Virginia, southwestward through the Appalachians, and from Oklahoma to Georgia remained very dry. Average temperatures were rather cool most of the month in the northern and central Great Plains, but parts of those areas experienced hot spells.

FIRST WEEK...Thunderstorms were widespread from the Rockies and southern Plateau eastward to the Atlantic Ocean. Exceptions were most of Texas and Oklahoma and most of the northern Great Plains, where few storms were reported. Heavy rain fell from eastern Nebraska to southern Minnesota and western Illinois. Heavy showers also fell in the upper Ohio Valley and in isolated areas of the East. A severe heat wave ended in the northern and central Great Plains, but hot weather moved over the Midwest before cooling at week's end. It was hot across the South all week and up the east coast to the mid-Atlantic region most of the week.

SECOND WEEK...Widespread thunderstorms covered the Nation. Only the deserts of the Southwest were spared the noisy storms. The heaviest storms were from southeastern New Mexico to the central Great Lakes and upper Mississippi Valley, and along the east coast of the Gulf of Mexico. Catastrophic flooding occurred in the Chicago area after 8 inches of rain fell in 12 hours. Heavy showers also fell in parts of the Northeast and from North Carolina into southern Virginia. Temperatures were unusually warm through the Plains at the beginning of the week and again at week's end. Warm weather also spread across the Midwest at week's end.

THIRD WEEK...Most of the Nation's precipitation was east of the 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.

FOURTH WEEK...Cooler air moved into the northern Plains early in the week and pushed slowly southward until it covered all but the extreme Southeast. Showers and thunderstorms developed along the leading edge of the cooler air. The heaviest rain accumulated along a line from western Texas to Iowa and eastward through northern Pennsylvania. Average temperatures were unusually cold through the Plains and warmer than normal in the Northwest and Southeast.

AUGUST CROP DEVELOPMENT

At the beginning of August, cooler temperatures and precipitation relieved crop stress in the central Great Plains, Corn Belt, and Southeast. Soil moisture remained short in most areas especially in the Delta and Southeast. The lack of moisture caused wilt and plant death in some areas of the Delta. The second week of August, inadequate, but much needed moisture eased crop stress in the Delta and Southeast. Rain improved crops in the central Great Plains and western Corn Belt. Crop development continued surging ahead of normal in most areas of the Nation. Cooler temperatures continued easing stress in the central Great Plains, Corn Belt, Delta, and the Southeast. Inadequate moisture plagued the Delta and Southeast and hampered fruit development. Near the end of August, rain promoted growth but cool temperatures slowed crop development from Texas through the central Great Plains and the Corn Belt. The rain mostly benefited soybeans and late-planted corn.

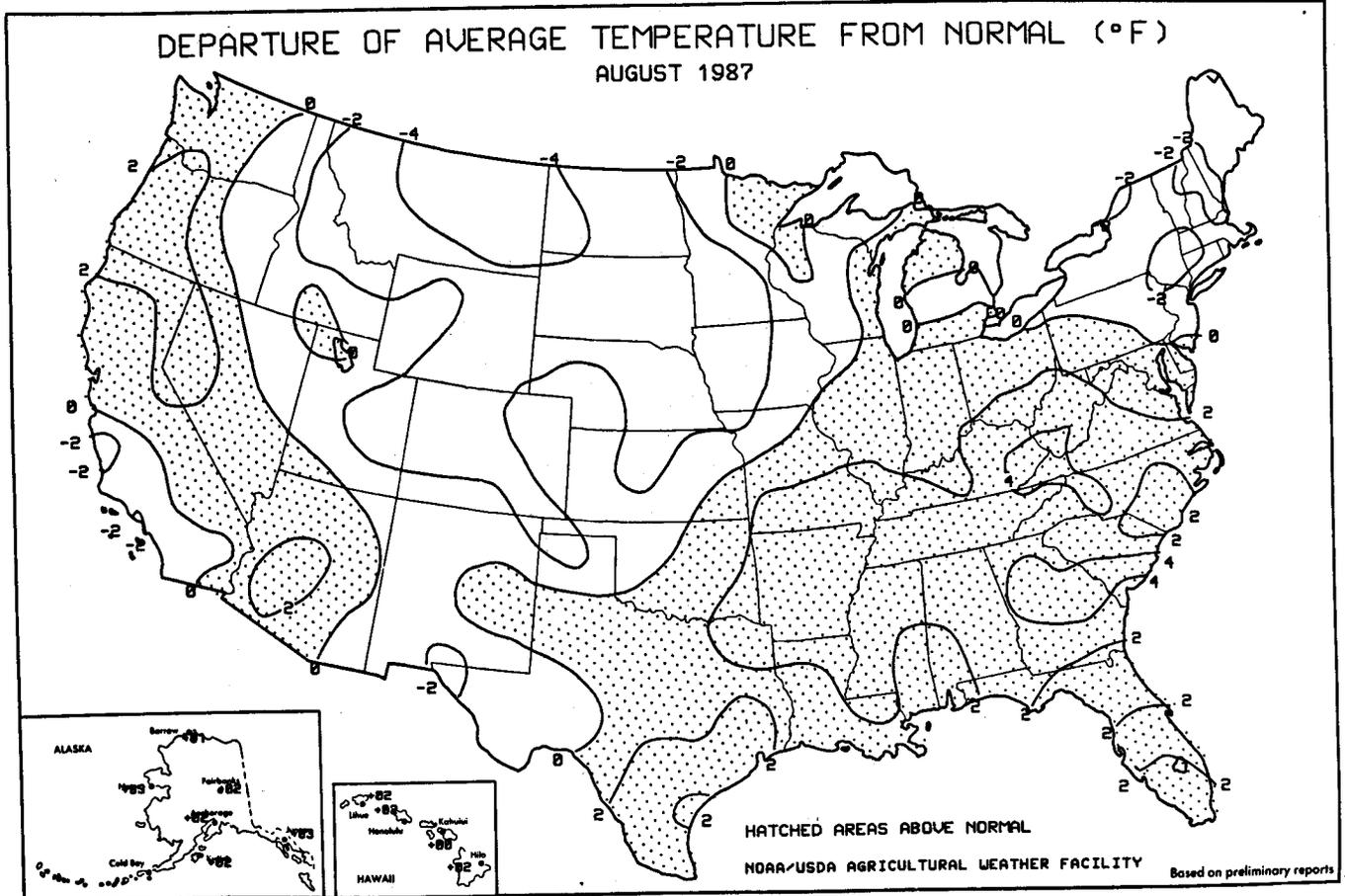
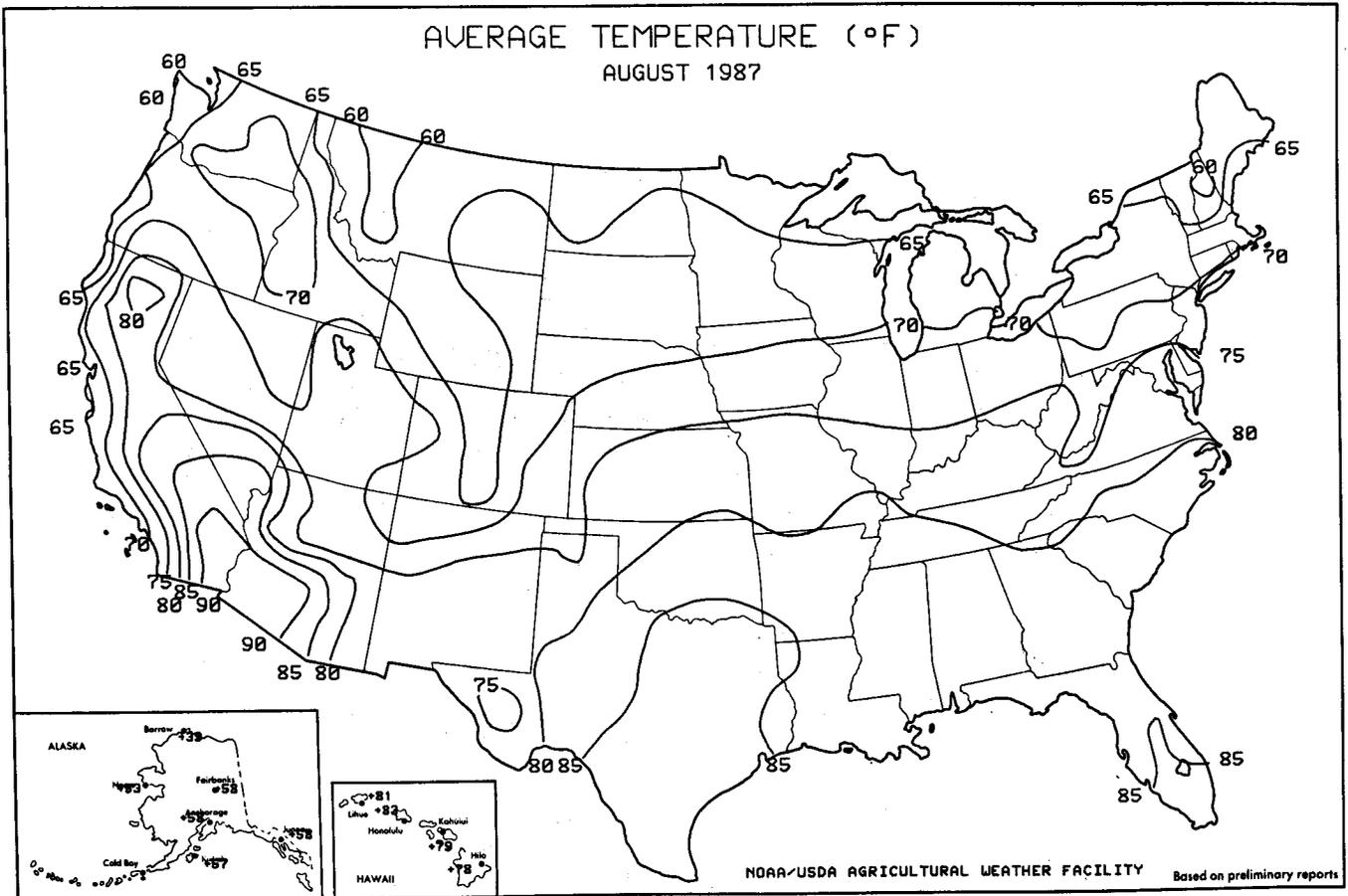
Corn ended the month in mostly good condition except in the Southeast where condition was mostly fair to good. Corn was reaching maturity nearly 3 times faster than normal, with 32 percent of the acreage mature on August 30th. Maturity was ahead of normal in all major producing States, except North Carolina and Texas. Harvest was 3 percent finished but was much further along in the Delta and Southeast. Harvest moved into the Corn Belt, reaching as far north as Illinois.

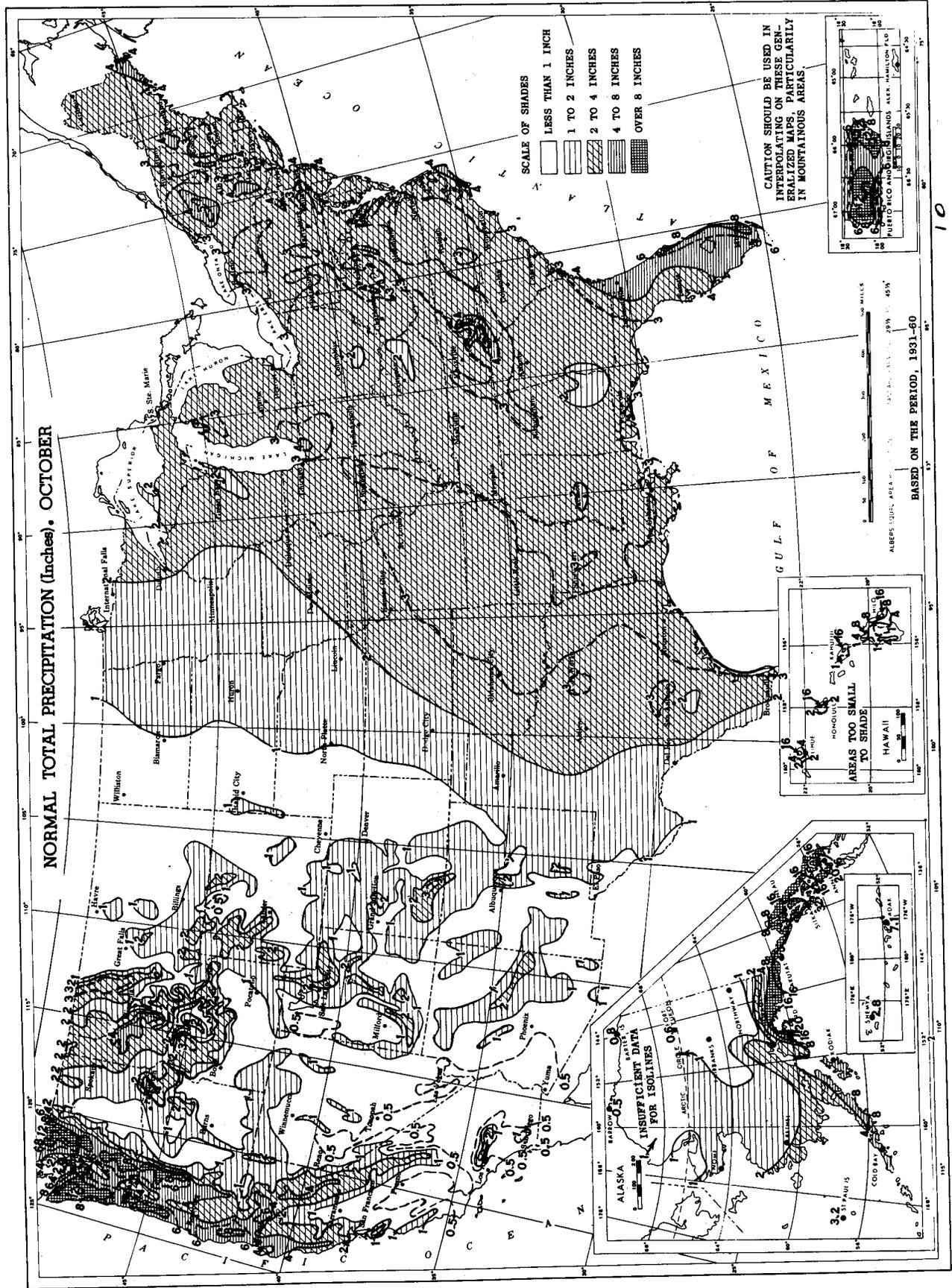
The cooler temperatures slowed soybean development, especially the latter part of the month. This gave pods more time to fill. Inadequate moisture plagued soybean growth and development during most of August in the Delta and Southeast. At month's end, soybeans were setting pods on 93 percent of the acreage, compared with 89 percent normally. Soybeans were shedding leaves on 12 percent of the acreage, 10 points above normal. Harvest was underway in Illinois, Indiana, Ohio, and Texas.

Cotton was mostly good during August. However, condition ranged from fair to good in the Southeast to good to excellent in the Southwestern States. Bolls were open on 34 percent of the acreage, compared with the 21 percent average. Cotton harvest reached 10 percent completion in Texas and was underway in Arizona, Arkansas, and Louisiana.

Grain sorghum was 20 percent harvested, 2 points slower than in 1986 but equaled the average on August 30th. Sixty-two percent turned color, 16 points above normal. However, sorghum mature was only 3 points above the 25 percent average. Heading was virtually finished, except in Oklahoma.

Winter wheat harvest neared completion in the Pacific Northwest at the end of August. Seeding was underway in South Dakota, Nebraska, Wyoming, Mississippi, Washington, New Mexico, and reached 32 and 36 percent completion in Minnesota and Utah, respectively. Normally 15 percent would be seeded in Minnesota and only 2 percent in Utah at the end of August. Spring wheat was 86 percent combined, 16 points above 1986 and 10 points above the average. Harvest was ahead of normal in all States except Montana, which lagged 12 points behind its 78 percent average. Harvest was finished in South Dakota at mid-August.





Heating Degree Days (Base 65° F)

August 1987

ALA. Birmingham . . .	0	MAINE, Caribou . . .	141	OKLA. Okla. City . . .	0
Mobile	0	Portland	63	Tulsa	0
Montgomery	0	MD. Baltimore	1	OREG. Astoria	138
ALASKA, Anchorage . . .	227	MASS. Boston	18	Burns	61
Barrow	795	Chatham	14	Medford	0
Fairbanks	209	MICH. Alpena	61	Pendleton	12
Nome	379	Detroit	32	Portland	2
ARIZ. Flagstaff	86	Flint	46	Salem	16
Phoenix	0	Grand Rapids	36	PA. Allentown	17
Tucson	0	Houghton Lake	53	Erie	23
Winslow	7	Lansing	37	Harrisburg	8
Yuma	0	Marquette	149	Philadelphia	0
ARK. Fort Smith	0	S. Ste. Marie	109	Pittsburgh	22
Little Rock	0	MINN. Duluth	100	Scranton	35
CALIF. Bakersfield . . .	0	Internatl Falls	126	R.I. Providence	26
Eureka	194	Minneapolis	29	S.C. Charleston	0
Fresno	0	Rochester	64	Columbia	0
Los Angeles	1	St. Cloud	59	Greenville	0
Redding	0	MISS. Jackson	0	S. DAK. Aberdeen	60
Stockton	0	Meridian	0	Huron	53
San Diego	0	MO. Columbia	2	Rapid City	46
San Francisco	17	Kansas City	3	Sioux Falls	54
COLO. Denver	21	St. Louis	0	TENN. Chattanooga	0
Grand Junction	6	Springfield	1	Knoxville	0
Pueblo	15	MONT. Billings	56	Memphis	0
CONN. Bridgeport	12	Glasgow	67	Nashville	0
Hartford	32	Great Falls	136	TEX. Abilene	0
D.C. Washington	0	Havre	123	Amarillo	8
FLA. Apalachicola	0	Helena	101	Austin	0
Ft. Myers	0	Kalispell	141	Beaumont	0
Jacksonville	0	Miles City	46	Brownsville	0
Key West	0	Missoula	106	Corpus Christi	0
Miami	0	NEBR. Grand Island	32	Del Rio	0
Orlando	0	Lincoln	17	El Paso	0
W. Palm Beach	0	Norfolk	45	Fort Worth	0
Tallahassee	0	North Platte	36	Galveston	0
Tampa	0	Omaha	33	Houston	0
GA. Atlanta	0	Valentine	48	Lubbock	0
Augusta	0	NEV. Ely	35	Midland	0
Macon	0	Las Vegas	0	San Angelo	0
Savannah	0	Reno	5	San Antonio	0
IDAHO, Boise	20	Winnemucca	14	Victoria	0
Lewiston	2	N.H. Concord	91	Waco	0
Pocatello	30	N.J. Atlantic City	10	Wichita Falls	0
ILL. Cairo	0	N. MEX. Albuquerque	0	UTAH, Milford	5
Chicago	19	N.Y. Albany	59	Salt Lake City	0
Moline	23	Binghamton	60	VT. Burlington	67
Peoria	16	Buffalo	28	VA. Lynchburg	0
Rockford	31	New York	2	Norfolk	0
Springfield	3	Rochester	52	Richmond	0
IND. Evansville	0	Syracuse	30	Roanoke	0
Fort Wayne	28	N.C. Asheville	0	WASH. Colville	40
Indianapolis	6	Charlotte	0	Quillayute	170
South Bend	26	Greensboro	0	Seattle-Tacoma	39
IOWA, Des Moines	26	Hatteras	0	Spokane	50
Dubuque	48	Raleigh	0	Walla Walla	0
Souix City	44	Wilmington	0	Yakima	18
KANS. Concordia	6	N. DAK. Bismarck	87	W. VA. Beckley	8
Dodge City	8	Fargo	59	Charleston	0
Goodland	20	Williston	88	Huntington	0
Topeka	3	OHIO. Akron-Canton	24	WIS. Green Bay	44
Wichita	2	Cincinnati	1	Madison	45
KY. Lexington	0	Cleveland	22	Milwaukee	27
Louisville	0	Columbus	4	WYO. Casper	57
LA. Baton Rouge	0	Dayton	10	Cheyenne	79
Lake Charles	0	Toledo	35	Lander	50
New Orleans	0	Youngstown	47	Sheridan	73
Shreveport	0				

National Agricultural Summary

August 31 to September 6, 1987

HIGHLIGHTS: Below-normal temperatures slowed crop development in the eastern half of the Nation. Moisture and warmer weather are needed for fruit development of some crops in the Delta and Southeast. Rain provided some relief from the dry conditions in the southern Atlantic Coast States, but more rain is needed. Soil moisture was short in the Delta and critically short in the Southeast. Soil moisture was becoming increasingly short in the Corn Belt and central and northern Great Plains. Farmers were able to work 5 to 6 days in most areas of the Nation.

Spring wheat was 94 percent (%) harvested, 8 percentage points above the 5-year average. Harvest neared completion in Minnesota and North Dakota. Winter wheat was 9% seeded, 2 points above 1986 and 3 points above the average. Harvest was virtually finished except for a few fields in the Northwest. Corn harvest reached 6% completion, compared with 4% in 1986 and 3% normally. Below-normal temperatures slowed dry-down in most areas. Soybeans were dropping leaves nearly 3 times faster than normal at 26% completion. Harvest spread slowly across the Corn Belt. Sorghum was 27% harvested compared with 23% normally. Cotton with open bolls was 16 points above the 32% average. Harvest was underway from Alabama to California, except for Oklahoma. Rice was 35% harvested, 5 points above normal. Burley tobacco harvest was ahead of normal in all States. Livestock was mostly good.

SMALL GRAINS: Spring wheat harvest climbed 8 points above the previous week to 94% completion. This was 14 points above 1986 and 8 points above the 5-year average. Harvest increased 17 points from the previous week in Montana but was still 4 points behind the 87% average. Idaho's harvest was 84% finished, compared with 82% in 1986 and 76% normally. Spring wheat harvest neared completion in Minnesota and North Dakota.

Winter wheat was 9% seeded, just slightly above last year and the average. Seeding was underway in 12 of the 20 major producing States. Seeding more than doubled the average pace in Kansas, Oklahoma, South Dakota, and Texas. Seeding progress ranged from just beginning in Michigan and Oregon to 35% finished in South Dakota. In both New Mexico and Washington, seeding reached 30% completion. Winter wheat was emerging in Douglas, Grant, and Adam Counties, Washington. Winter wheat harvest was nearly finished, but some acreage remained to be harvested in Idaho and Oregon.

CORN: Corn was mostly good throughout the Corn Belt and central and northern Great Plains. Cooler temperatures slowed dry-down in the eastern half of the Nation. In the 17 major producing States, 56% of the acreage was mature, compared with 32% last year and the 21% average. Harvest was 6% finished, compared with 3% normally. Harvest was underway as far north as Iowa and in all States except Colorado, Minnesota, Nebraska, South Dakota, and Wisconsin. Of the 12 States harvesting corn, all were ahead of normal except North Carolina.

SOYBEANS: Below-normal temperatures continued slowing soybean maturity, but moisture is badly needed in the Delta, Appalachian, and Southeastern States. Rain in southern Atlantic Coast States helped but did very little to improve the fair to good condition in the Southeast. Despite the cooler weather, soybeans dropping leaves more than doubled from the previous week to 26% of the acreage. This was nearly 3 times the average and 2 times greater than in 1986. Harvest slowly spread across the Corn Belt and central Great Plains.

SORGHUM: Sorghum turning color was 17 points ahead of normal at 74% finished. Thirty-four percent of the sorghum acreage reached maturity, equaling 1986 but 4 points above normal. Harvest was 27% finished, compared with the 23% average. All major producing States were harvesting sorghum, except Nebraska and South Dakota. In Oklahoma, sorghum was behind normal in all three development stages.

COTTON: Cotton was mostly good to fair in the Delta and southern Great Plains. Crop condition was mostly fair to good in the Southeast. Cotton thrived on near ideal growing conditions in the Southwest. Cotton with open bolls was 16 points ahead of normal, totaling 48% completion. Boll development surged ahead of normal, except in New Mexico and South Carolina. Cotton harvest continued in western Arizona and spread to central and southern areas. Rain hampered the harvest operation in Texas. The below-normal temperatures slowed development in the Plains. In California, warm weather pushed cotton to maturity. Most fields had open bolls, and harvest began in Riverside County. Warm weather is needed for bolls to mature properly in Oklahoma. Harvest was underway in Alabama, Mississippi, Louisiana, and Missouri.

OTHER CROPS: Rice was 35% harvested, 8 points above the previous week and 5 points above normal. In Texas, harvest of the first crop neared completion. California producers continued draining rice fields in preparation for harvest. Sheath blight and blast diseases hurt rice in Arkansas.

Flue-cured tobacco harvest continued lagging behind normal in Virginia and North Carolina by 8 and 13 points, respectively. Harvest neared completion in Georgia and South Carolina. Burley tobacco surged ahead of normal in all States. Harvest was 15 points ahead of normal in Tennessee and 31 points ahead in Kentucky.

Peanuts were good to fair. Harvest continued gaining momentum in the lower Southeast. Harvest was 10% finished in Alabama, 8% in Georgia, 48% in Mississippi, 5% in South Carolina, and 5% in Texas.

FRUIT AND NUTS: Rain ceased the need to irrigate in most Florida citrus areas. New foliage was abundant, and new crop fruit was very good. Grapefruit harvest is expected to start in 7 to 10 days. California raisin grapes were binned and turned. Hot weather increased the volume of table grapes packed. Peach, plum, prune, and nectarine harvests neared completion. Fall navel oranges sized well. Almond harvest was in full swing, but walnut was just beginning. Arizona citrus groves were good. Lemon harvest increased in western areas and should begin soon in the central valley.

VEGETABLES: Cooler weather over Florida's vegetable producing areas benefited young plants. Land preparation and planting continued their seasonal increase. Rain slowed planting and land preparation in the Rio Grande Valley. Carrots, cabbage, and greens were planted in the San Antonio-Winter Garden area. California vegetable harvest consisted mostly of artichokes, broccoli, carrots, cauliflower, celery, and lettuce. Fall lettuce and broccoli progressed well at Westside. Lettuce, cauliflower, and broccoli planting continued in western Arizona.

PASTURES AND LIVESTOCK: Pastures were mostly fair to good. Below-normal temperatures and reduced moisture inhibited growth. Livestock was mostly good. Producers began moving herds down from summer pastures in some areas.

Crop Progress

FOR WEEK ENDING SEPTEMBER 6, 1987

GRAIN SORGHUM
% COLORING

	1987	1986	AVG.
ARK	97	93	NA
ILL	90	73	NA
KANS	60	65	30
LA	97	100	96
MISS	97	99	NA
MO	89	82	79
NEBR	80	77	52
OKLA	65	85	70
S DAK	89	60	52
TENN	94	87	70
TEX	80	76	78
11 STATES	76	75	NA

EXCL. STATES WITH NA 74 73 57

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

NA - NOT AVAILABLE.

GRAIN SORGHUM
% MATURE

	1987	1986	AVG.
ARK	88	80	NA
ILL	50	29	NA
KANS	10	15	5
LA	89	98	86
MISS	86	91	74
MO	55	39	37
NEBR	20	4	2
OKLA	5	15	15
S DAK	15	8	18
TENN	70	60	40
TEX	59	63	65
11 STATES	37	36	NA

EXCL. STATES WITH NA 34 34 30

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

NA - NOT AVAILABLE.

GRAIN SORGHUM
% HARVESTED

	1987	1986	AVG.
ARK	66	64	34
ILL	4	0	0
KANS	3	2	1
LA	62	88	71
MISS	53	60	30
MO	22	12	9
NEBR	0	0	0
OKLA	2	2	3
S DAK	0	0	0
TENN	25	30	14
TEX	63	55	60
11 STATES	27	25	23

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

RICE
% HARVESTED

	1987	1986	AVG.
ARK	19	21	10
CALIF	0	0	0
LA	70	84	70
MISS	13	56	19
TEX	99	93	88
5 STATES	35	41	30

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

SPRING WHEAT
% HARVESTED

	1987	1986	AVG.
IDAHO	84	82	76
MINN	99	75	82
MONT	83	83	87
N DAK	96	76	84
S DAK	100	95	97
5 STATES	94	80	86

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

SOYBEANS
% SETTING PODS

	1987	1986	AVG.
ALA	83	92	90
ARK	92	83	81
GA	100	88	90
ILL	100	100	100
IND	100	100	98
IOWA	100	100	100
KANS	98	97	85
KY	88	80	80
LA	97	95	93
MICH	100	100	99
MINN	100	99	99
MISS	83	85	84
MO	100	100	92
NEBR	100	100	100
N C	74	83	77
OHIO	100	100	100
S C	74	70	80
S DAK	100	100	100
TENN	95	89	94
19 STATES	97	96	95

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

SOYBEANS
% DROPPING LEAVES

	1987	1986	AVG.
ALA	8	5	3
ARK	2	8	4
GA	7	8	8
ILL	40	31	17
IND	65	16	9
IOWA	20	7	7
KANS	25	20	15
KY	21	21	12
LA	11	11	5
MICH	15	5	10
MINN	35	5	7
MISS	7	21	NA
MO	17	13	9
NEBR	10	6	3
N C	0	0	0
OHIO	50	13	8
S C	1	1	0
S DAK	24	18	20
TENN	12	11	5
19 STATES	26	14	NA

EXCL. STATES WITH NA 26 13 9

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

NA - NOT AVAILABLE.

WINTER WHEAT
% PLANTED

	1987	1986	AVG.
ARK	0	0	0
CALIF	0	0	0
COLO	8	15	17
GA	0	NA	NA
IDAHO	5	15	8
ILL	0	0	0
IND	0	0	0
KANS	5	4	2
MICH	1	0	0
MO	0	0	0
MONT	9	5	6
NEBR	10	6	8
N MEX	30	20	NA
N C	0	0	0
OHIO	0	0	0
OKLA	10	5	5
OREG	1	0	1
S DAK	35	20	15
TEX	10	10	5
WASH	30	21	21
20 STATES	9	NA	NA

EXCL. STATES WITH NA 9 7 6

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

NA - NOT AVAILABLE.

	CORN % DENT		
	1987	1986	AVG.
COLO	54	57	60
GA	100	100	100
ILL	99	99	88
IND	100	90	74
IOWA	95	74	67
KANS	90	90	65
KY	98	94	86
MICH	90	35	45
MINN	98	69	62
MO	100	100	90
NEBR	94	82	62
N C	97	100	97
OHIO	99	89	81
PA	61	57	46
S DAK	90	49	52
TEX	98	95	93
WIS	87	59	45
17 STATES	95	79	70

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

	CORN % MATURE		
	1987	1986	AVG.
COLO	13	5	8
GA	100	100	98
ILL	70	49	29
IND	88	52	18
IOWA	68	23	16
KANS	60	55	35
KY	75	60	35
MICH	20	4	5
MINN	39	7	6
MO	84	78	49
NEBR	25	12	5
N C	81	93	81
OHIO	50	21	18
PA	12	10	4
S DAK	30	20	17
TEX	73	78	75
WIS	40	12	11
17 STATES	56	32	21

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

	COTTON % BOLLS OPENING		
	1987	1986	AVG.
ALA	52	41	34
ARIZ	80	60	70
ARK	71	65	43
CALIF	75	55	39
GA	46	37	34
LA	80	84	51
MISS	87	97	59
MO	98	24	30
N MEX	30	90	75
N C	67	50	50
OKLA	10	3	5
S C	39	47	55
TENN	60	45	35
TEX	27	16	19
14 STATES	48	39	32

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

Crop Condition

FOR WEEK ENDING SEPTEMBER 6, 1987

	CORN % HARVESTED		
	1987	1986	AVG.
COLO	0	0	0
GA	71	76	67
ILL	6	6	1
IND	6	1	0
IOWA	2	0	0
KANS	10	5	3
KY	11	9	4
MICH	1	0	0
MINN	0	0	0
MO	15	11	7
NEBR	0	0	0
N C	14	16	19
OHIO	3	0	0
PA	1	0	0
S DAK	0	0	0
TEX	63	66	57
WIS	0	0	0
17 STATES	6	4	3

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

STATE	COTTON				
	VP	P	F	G	EX
ALA	0	2	64	34	0
ARIZ	0	0	0	90	10
ARK	0	1	8	87	4
CALIF	0	0	0	35	65
GA	0	2	46	49	3
LA	0	0	23	77	0
MISS	0	4	32	63	1
MO	0	0	15	77	8
N MEX	0	0	33	67	0
N C	0	4	58	38	0
OKLA	0	0	10	75	15
S C	3	3	84	10	0
TENN	0	0	52	46	2
TEX	0	1	27	61	11

STATE	RICE				
	VP	P	F	G	EX
ARK	0	4	22	74	0
CALIF	0	0	0	80	20
MISS	0	10	27	63	0

STATE	GRAIN SORGHUM				
	VP	P	F	G	EX
ARK	0	2	35	58	5
ILL	0	0	17	75	8
KANS	0	6	3	40	51
LA	0	0	49	51	0
MISS	0	1	39	60	0
MO	0	1	28	67	4
NEBR	0	0	14	63	23
OKLA	0	1	15	80	4
S DAK	0	3	25	59	13
TENN	2	9	43	43	3
TEX	0	1	17	59	23

STATE	SOYBEANS				
	VP	P	F	G	EX
ALA	2	23	59	16	0
ARK	1	14	41	44	0
GA	8	10	39	42	1
ILL	0	2	31	63	4
IND	0	3	29	53	15
IOWA	0	1	7	72	20
KANS	0	0	10	38	52
KY	4	26	52	18	0
LA	0	4	31	57	8
MICH	1	9	25	45	20
MINN	0	0	19	63	18
MISS	0	13	55	30	2
MO	1	5	41	49	4
NEBR	0	0	24	68	8
N C	9	15	42	33	1
OHIO	1	9	31	49	10
S C	1	6	46	47	0
S DAK	0	0	11	72	17
TENN	6	23	54	14	3

STATE	CORN				
	VP	P	F	G	EX
COLO	0	1	16	60	23
GA	0	9	26	63	2
ILL	0	0	19	67	14
IND	0	1	12	60	27
IOWA	0	1	10	65	24
KANS	0	0	6	55	39
KY	2	8	18	63	9
MICH	2	13	30	40	15
MINN	1	1	18	60	20
MO	0	1	25	63	11
NEBR	0	1	16	64	19
N C	16	32	32	20	0
OHIO	1	5	20	58	16
PA	2	10	25	39	24
S DAK	0	2	12	72	14
TEX	0	1	22	57	20
WISC	0	0	7	48	45

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

State Summaries of Weather and Agriculture

These summaries provide brief descriptions of crop and weather conditions important on a national scale. More detailed data are available in Weather and Crop Bulletins published each Monday by NASS State Statistical Offices in cooperation with the National Weather Service.

ALABAMA: Rainfall totals mostly under 1.00 in.; local areas 1.00 to 2.00 in. Temperatures averaged 1 to 3° below normal.

Days suitable for fieldwork 6.6. Soil moisture 94% short, 6% adequate. Inadequate moisture continued hampering crop development. Corn 60% harvested, 55% 1986, 52% avg.; 9% poor, 38% fair, 47% good, 6% excellent. Sorghum 26% harvested, 34% 1986, 27% avg.; 10% poor, 62% fair, 28% good. Cotton 52% bolls opened, 41% 1986, 34% avg.; 3% harvested; 2% poor, 64% fair, 43% good. Soybeans 93% blooming, 99% 1986, 98% avg.; 83% setting pods, 92% 1986, 90% avg.; 23% turning color, 20% 1986, 15% avg.; 8% dropping leaves, 5% 1986, 3% avg.; 2% very poor, 23% poor, 59% fair, 16% good. Peanuts 10% dug, 6% 1986, 10% avg.; 5% combined, 1% 1986, 3% avg.; 23% poor, 54% fair, 23% good. Livestock, pastures mostly good. Primary activities: Harvesting corn, sorghum, hay, summer vegetables; digging, combining peanuts; preparing land for winter grazing, small grains; defoliating cotton; providing supplemental feed; routine care of livestock, poultry.

ALASKA: Cooler temperatures, light to heavy wind, all areas. Rain general most week, Matanuska Valley and Kenai Peninsula. Temperature lows ranged from normal to 3° cooler than normal. Highs ranged from 7° cooler than normal to 3° warmer than normal. Precipitation ranged 3.00 in. drier than normal to 4.00 in. wetter than normal.

Days suitable for making hay or harvesting grain 3.0. Topsoil moisture 36% short, 50% adequate, 14% surplus. Subsoil moisture 23% short, 65% adequate, 12% surplus. Barley for grain 55% harvested, 60% 1986. Small grains for silage 55% harvested. Second cutting hay harvest neared 60%. Hardy vegetable harvest continued. Commercial potato harvest underway, slightly over 10% done.

ARIZONA: Mostly sunny, hot dry conditions dominated 30th, 31st, except isolated light showers White Mountains, southeast. Large high pressure system, east area 1st, winds brought drier air, no rainfall southeast; activity confined to north. Mostly sunny south, partly cloudy north 2nd; isolated showers extreme north. Southerly flow aloft 3rd brought cloudy conditions south, central sections; scattered light showers mornings, spotty heavy thunderstorms evening. Maximum temperatures dropped 3 to 8° 3rd. Very moist, unstable air mass 4th produced heavy thunderstorms north, southeast. Heavy thunderstorms southwest, northwest produced flash flooding Bullhead City to Parker. Activity confined to widely scattered showers north, eastern portion 5th. Precipitation ranged from traces to 0.50 in., except locally over 1.00 in. southeast. Temperatures 3° below normal to 5° above.

Cotton harvest continued west; spread to central, southeastern areas. Some spraying for boll weevils, central; harvest expected to increase next 2 to 3 weeks. Controls applied for pink bollworms, tobacco budworms, white flies, spider mites, west; defoliation active. Harvest limited, hail damage, southeast. Final pre-harvest applications active, irrigations minimal, west. Cotton 1% harvested. Alfalfa good statewide. Some rain damage west. Sorghum good. Heading out, turning color, central, west. Lemon picks increased west; harvest expected soon central valley. Citrus groves good. Stand establishment lettuce, cauliflower, broccoli progressed west; planting continued. Green chile Tulelake-Butte Valley. Normally well into

harvest southeast. Greens, green onions shipped. Southeastern apple deal advanced; golden, red delicious harvest southeast. Cantaloupe, honeydew shipments continued. Watermelons picked, southeast.

ARKANSAS: Temperatures near to slightly below normal. Rainfall isolated, light. Temperature extremes 44°; 100°. Rainfall none to 0.85 in.

Days suitable for fieldwork 7.0. Soil moisture 81% short, 19% adequate. Major farming activities: Harvesting sorghum, rice, corn, cotton; irrigating soybeans; applying insecticides, cotton defoliants; baling hay; fertilizing pastures; preparing fall seedbeds. Sorghum yields excellent, some areas. Rice yields affected by sheath blight, blast. Corn 75% harvested, 86% 1986, 65% avg. Cotton harvest just underway. Soybeans need moisture to fill pods. Alfalfa hay 4th cutting 13% poor, 44% fair, 43% good. Other hay 25% poor, 36% fair, 39% good. Livestock mostly good. Hay being fed, cattle marketings up due to lack of pasture.

CALIFORNIA: High pressure ridge resulted in hot temperatures through midweek. Ridge moved eastward, thunderstorms developed through most of State. By weekend low pressure trough in addition to smoke, haze from forest fires brought cooler temperatures. Precipitation Bakersfield, Huntington Lake 0.10 in., Thermal 0.11 in., Tulelake 0.06 in.

Warm, open weather benefited crop maturity. Open bolls most cotton fields by weekend. Cotton harvest began Riverside County. Many north fields getting final irrigation. Draining rice active. Harvest early fields 7 to 10 days. Corn silage, safflower, sugarbeet, dry bean, sunflower, alfalfa harvests good progress. Corn for grain harvest increased. Grain sorghum development normal. Harvest early fields soon. Apple harvest throughout central valley. Avocado harvest progressed, excellent quality and size. Dates harvested Coachella. Hot weather increased volume of table grapes packed. Raisin grapes binned, turned, rolled. Wine grape harvest continued. Peach, plum, prune, nectarine harvests neared completion. Pomegranate packing progressed. Asian pears picked. Kiwi, feijoa good fruit sizes. Fall navel orange crop sizing well. Valencia orange, lemon harvests continued, grapefruit slow. Almond harvest full swing, walnuts began. Artichokes light, good quality Salinas. Broccoli fairly heavy Salinas; moderate Santa Maria; good quality. Young fall plantings Westside good progress. Carrots fairly heavy Salinas, good quality. Production Kern-Tulare light but should increase toward end of September with fall marketing season. Cauliflower fairly heavy Salinas; moderate Santa Maria; good quality. Fall plantings progressed well Westside. Celery moderate both Salinas-Watsonville, Santa Maria-Oceano; good quality. Sweet corn harvest nearly finished desert. Cucumber packing active Westside, Eastside, good quality. Lettuce fairly heavy Salinas; heavy Santa Maria; variable weight, quality. Fall plantings Westside showed progress. Watermelon, cantaloupe, honeydew, mixed melon harvests active statewide. Watermelon picking neared completion Modesto-Turlock, Merced-Atwater. Dry onion digging active desert; dehydrator onion harvest continued Westside. Pepper picking fairly heavy Salinas, good quality. Production active central valley, south coast, good quality. Fall potato fields Tulelake-Butte Valley, Hemet-San Jacinto showed good growth. Only light harvesting

harvesting early varieties. Sweetpotatoes harvested Selma District, Merced-Atwater; Westside fields progressed normally. Tomatoes for processing, fresh market full production, good quality, statewide. Fires continued to burn out of control many areas State. Some ranch structures, hay, livestock lost. Ranges remained extremely dry, fire hazard critical. Movement livestock from summer pastures underway. Fall calving started.

COLORADO: Temperatures 3° below to 3° above normal. Spotty rain showers in mountains, eastern plains. Precipitation mostly less than 0.10 to 1.09 in. from localized shower.

Days suitable for fieldwork 6.1. Soil moisture adequate. Corn, small grains good. Oats 73% harvested; spring wheat 36% harvested; barley 82% harvested. Corn maturing faster than 1986 and average. Dry onions 21% harvested. Fall potato harvest just underway. Livestock good, pastures fair to good.

FLORIDA: Hot, dry 31st, 1st; only isolated thundershowers. Cool, stationary front across northeast generated most widespread, significant rains over much of State since early August. Rainfall averaged 0.50 to 1.00 in. Panhandle, southeast with near 2.00 in. elsewhere. Excessive cloudiness late week lowered temperatures to near normal from early week's heat.

Heavy afternoon, evening thunderstorms improved soil moisture to generally adequate. Few scattered areas short or surplus. Corn, hay harvest active. Peanut harvest becoming active. Soybeans, cotton continued good progress. Sugarcane progressed normally. Rain many areas kept pastures mostly good. Cattle good to excellent. Calf marketings steady. Rain most citrus areas; irrigation stopped. Abundant new foliage. New crop fruit very good. Grapefruit harvest expected 7 to 10 days. Caretakers chopping cover crops, spraying. Cooler weather over vegetable producing areas beneficial to young plants. Land preparation, plantings continued seasonal increase. Crops planted include tomatoes, peppers, cucumbers, celery, cabbage, squash.

GEORGIA: Rain nearly every day across southeast. Rain totals 2.00 in. with local totals 5.00 to 10.00 in. near coast. Variety of rainfall totals over remainder State. Most 0.50 in. or less local totals 1.00 to 3.00 in. northeast. Temperatures 1 to 3° below normal. Temperature extremes 97° Jesup 31st to 44° Blairsville 2nd.

Days suitable for fieldwork 5.2. Soil moisture 32% very short, 33% short, 29% adequate, 6% surplus. Sorghum 1% very poor, 6% poor, 40% fair, 47% good, 6% excellent; 20% harvested. Peanuts 2% poor, 47% fair, 47% good, 4% excellent; 8% dug, 3% 1986, 12% avg.; 2% threshed, 2% 1986, 6% avg. Soybeans insects under control, rains improved conditions some. Tobacco 15% poor, 22% fair, 63% good; 94% harvested, 95% 1986, 96% avg. Rye none planted, 1% 1986, 1% avg. Other small grains none planted, none 1986. Apples 5% poor, 6% fair, 85% good, 4% excellent; 36% harvested, 50% 1986, 60% avg. Pecans 1% very poor, 4% poor, 34% fair, 57% good, 4% excellent. Pasture 6% very poor, 18% poor, 39% fair, 33% good, 4% excellent. Pastures very poor northern third, considerable supplemental feeding. Hay 6% very poor, 20% poor, 42% fair, 31% good, 1% excellent. Cattle 30% fair, 69% good, 1% excellent. Hogs 21% fair, 73% good, 6% excellent. Main activities: Haying and cutting silage; harvesting apples, peanuts, corn and vegetables; spraying cotton, soybeans and pecans; land preparation for planting wheat, rye and other small grains.

HAWAII: Hot, humid conditions continued. Record temperature 94° 5th. Rainfall light except for

some thundershowers early week on Kauai, Oahu. Irrigation very heavy. Water restrictions one major vegetable growing area implemented 4th. Crops fair to good. Temperatures low 60s to mid 90s. Winds light 5 to 15 mph. Rainfall ranged none to 3.70 in.

Days suitable for fieldwork 7.0. Banana production seasonally high. Papaya production steady, moderate to heavy. Chinese, head cabbage production moderate, adversely affected by heat. Head lettuce output light, some improvement. Watermelon output heavy, quality good.

IDAHO: Temperatures 1 to 5° above normal statewide. Precipitation 0.10 to 0.40 in. below normal statewide.

Days suitable for fieldwork 7.0. Winter wheat 97% harvested, 94% 1986, 89% avg. Spring wheat 84% harvested, 82% 1986, 76% avg. Spring barley 84% harvested, 80% 1986, 73% avg. Potatoes good to excellent; 45% vines dying or killed; 7% harvested, 4% 1986, 4% avg. Dry beans 22% harvested, 16% avg. Second cutting alfalfa hay 97%, 3rd cutting 25%. Oats 88% harvested. Mint 97% harvested. Winter wheat 5% planted, 15% 1986, 8% avg. Livestock good. Range, pasture provided limited grazing. Irrigation water supply short some areas but demand decreased.

ILLINOIS: Temperatures averaged 1 to 2° below normal, warmest end of period. Precipitation little to none, heaviest northwest and west central, mostly 0.50 in. or less.

Days suitable for fieldwork 6.0. Soil moisture 41% short, 51% adequate, 8% surplus. Soybeans 68% turning yellow, 58% 1986, 43% avg.; 4% harvested, 2% 1986, 1% avg. Alfalfa hay 3rd crop 87% cut, 79% 1986, 82% avg.; 7% poor, 22% fair, 59% good, 12% excellent. Pasture 1% very poor, 12% poor, 39% fair, 42% good, 6% excellent.

INDIANA: Temperatures into low and mid 40s, highs in upper 80s. Spotty showers gave less than 0.25 in. rain mostly north.

Days suitable for fieldwork 6.2. Topsoil moisture 44% short, 54% adequate, 2% surplus. Subsoil moisture 43% short, 55% adequate, 2% surplus. Corn mostly good to excellent. Soybeans mostly good. Soybeans 92% turning yellow, 50% 1986, 35% avg. Tobacco 75% harvested, 60% 1986, 25% avg. Wheatland 33% plowed, 29% 1986, 26% avg. Silos 60% filled, 38% 1986, 20% avg.

IOWA: Cool, dry early week; warm, humid late week. Scattered showers, cooler weekend. Extremes 42° Rock Rapids, Sheldon 31st; 90° Jefferson 4th. Showers central, north central; Stratford 1.35 in., Dumont 1.19 in. Daily pan evaporation 0.25 in.

Days suitable for fieldwork 6.2. Topsoil moisture 6% short, 88% adequate, 6% surplus; subsoil moisture 8% short, 83% adequate, 9% surplus. Seed corn, corn silage harvest full swing. Third crop alfalfa 80% harvested, 78% 1986, 72% avg. Hay 1% poor, 16% fair, 62% good, 21% excellent. Soybeans 55% leaves turning, 31% 1986, 30% avg.; 10% mature, 3% 1986, 3% avg. Livestock, pasture good to excellent.

KANSAS: Temperatures averaged 72° northwest to 75° southeast and 3° above normal west and central, near normal elsewhere. Precipitation light, averaging less than 0.20 in. all areas, most areas less than 0.10 in.

Days suitable for fieldwork 6.0. Soil moisture 23% short, 73% adequate, 4% surplus. Near ideal weather allowed crops to make excellent progress. Corn harvest underway most areas. Some stalk rot noted south, east, may cause lodging. Most stands mature except north and west, not susceptible to early freeze damage. Sorghum harvest started, most activity east, central. Stalk rot present south,

east, farmers urged to harvest early as possible. Some corn earworm, webworm activity also noted. Soybeans excellent progress, development southern areas on slow side. Some stalk rot noted south and east, lodging may occur as stands mature. Range, pasture furnish less grazing, ranchers culling, moving cattle to feedlots. Hay harvest excellent progress, 3rd cutting alfalfa neared completion, 4th cutting well underway.

KENTUCKY: Sunshine, warm temperatures little if any rain. Temperatures averaged 1 to 3° above normal, lower 80s east, highs upper 80s west. Low temperatures averaged in 50s. Rainfall spotty, generally less than 0.25 in.

Days suitable for fieldwork 5.8. Soil moisture 71% very short, 28% short, 1% adequate. Early corn mostly good to excellent, later corn suffered from hot, dry conditions. Soybean conditions declined, late beans urgent need of rain. Burley 80% cut, 57% 1986, 49% avg. Early housed tobacco curing well. Dark tobacco 72% cut. Pastures deteriorating, some hay being fed. Pastures 33% very poor, 35% poor, 27% fair, 4% good, 1% excellent.

LOUISIANA: Temperature 1 to 5° below normal. Temperature extremes 51°; 97°. Rainfall averaged none to 0.81 in.

Days suitable for fieldwork 5.6. Soil moisture 36% short, 62% adequate, 2% surplus. Corn 100% mature, 100% 1986, 99% avg.; 77% harvested, 96% 1986, 82% avg. Cotton 80% open bolls, 84% 1986, 51% avg.; 2% harvested, 7% 1986, 2% avg. Rice 99% headed, 100% 1986, 98% avg.; 86% ripe, 93% 1986, 82% avg.; 70% harvested, 84% 1986, 70% avg. Sorghum 97% turning color, 100% 1986, 96% avg.; 89% ripe, 98% 1986, 86% avg.; 62% harvested, 88% 1986, 71% avg. Soybeans 100% blooming, 100% 1986, 99% avg.; 97% setting pods, 95% 1986, 93% avg.; 29% turning color, 31% 1986, 19% avg.; 11% dropping leaves, 11% 1986, 5% avg. Hay final cutting 63%, 69% 1986, 55% avg. Sweetpotatoes good; 48% harvested, 46% 1986, 40% avg. Sugarcane good; 37% planted, 47% 1986, 22% avg. Livestock good; pasture fair to good; vegetables fair. Main activities: Harvesting corn, rice, sorghum, sweetpotatoes; baling hay; planting sugarcane, fall vegetables; insect control.

MARYLAND & DELAWARE: **Maryland:** Temperatures averaged 69°, 71° normal. Precipitation averaged 0.12 in., ranging from none to 1.23 in. Chestertown.

Days suitable for fieldwork 6.0. Topsoil, subsoil moisture very short to short, mostly short. Corn poor to fair, mostly fair. Corn 97% dough, 90% avg. Corn 85% dent, 75% avg. Corn 40% mature, 30% avg. Corn for grain 15% harvested, 5% avg. Corn for silage 55% cut, 35% avg. Soybeans poor to fair. Soybeans 85% set pods, 85% avg. Soybeans 20% turning color, 10% avg. Tobacco poor. Tobacco 70% harvested, 40% avg. Apples 25% harvested, 25% avg. Tomatoes 90% harvested, 90% avg.

Delaware: Temperatures averaged 70°, 72° normal. Precipitation averaged 0.34 in.

Days suitable for fieldwork 6.8. Topsoil moisture very short to short, mostly very short. Subsoil moisture very short. Soybeans poor. Soybeans 90% setting pods, 75% avg. Soybeans 10% turning color, 10% avg. Corn poor to fair, mostly poor. Corn 98% dent, 83% avg. Corn 55% mature, 45% avg. Corn for grain 10% harvested, 5% avg. Peaches 95% harvested, 97% avg.

MICHIGAN: Temperatures ranged 2 to 4° below normal. Temperature extremes 32°; 86°. Precipitation ranged from none to 0.80 in. across State.

Days suitable for fieldwork 5.5. Soil moisture 5% short, 85% adequate, 10% surplus. Corn 99% dough, 85% 1986, 90% avg.; 90% dent, 35% 1986, 45% avg.; 20% mature, 4% 1986, 5% avg.; 2% very poor, 13% poor, 30% fair, 40% good, 15% excellent. Soybeans 100% setting pods, 100% 1986, 99% avg.; 55% turning, 30% 1986, 40% avg.; 1% very poor, 9% poor, 25% fair, 45% good, 20% excellent. Dry beans 50% shedding, 35% 1986, 45% avg.; 5% very poor, 25% poor, 40% fair, 25% good, 5% excellent. Major activities: Making hay, spraying, planting wheat, harvesting corn for grain, maintaining set aside land, chopping silage, harvesting dry beans. Harvesting apples, grapes. Vegetable harvest active. Quality excellent.

MINNESOTA: Temperatures averaged near normal to 3° above normal for State. Temperature extremes 25°; 90°. Precipitation averaged 0.02 to 0.82 in. below normal for State. Precipitation totals averaged normal to 0.82 in. for State.

Field corn 98% denting, 69% 1986, 62% avg.; 39% mature, 7% 1986, 6% avg.; 22% silage cut, 2% 1986, 3% avg. Soybeans 88% turning yellow, 41% 1986, 44% avg.; 35% dropping leaves, 5% 1986, 7% avg. Potatoes 28% harvested, 13% 1986, 12% avg. Flax 68% harvested, 19% 1986, 37% avg. Dry beans 33% harvested, 13% 1986, 13% avg. Sweet corn 97% harvested, 75% 1986, 71% avg. Winter wheat 57% planted, 37% 1986, 33% avg. Rye 61% planted, 34% 1986, 31% avg.

MISSISSIPPI: Temperatures 2 to 4° below normal; extremes 44°; 96°. Cooler weather with much lower humidity dominated week. Greatest 24-hour rainfall 0.26 in.

Days suitable for fieldwork 6.4, 4.8 1986, 5.1 avg. Soil moisture 38% very short, 40% short, 22% adequate. Corn 99% dented, 100% 1986; 93% mature, 99% 1986, 83% avg.; 47% harvested, 67% 1986, 34% avg.; 1% very poor, 1% poor, 15% fair, 73% good, 10% excellent. Hay 85% harvested, 86% 1986, 83% avg. Sorghum silage 81% harvested, 87% 1986, 71% avg. Watermelons 97% harvested, 100% 1986. Peanuts 48% harvested, 54% 1986, 36% avg. Sweetpotatoes 30% harvested, 43% 1986, 24% avg. Corn silage 91% harvested, 97% 1986, 83% avg. Wheat 3% planted, 1% 1986. Rice 100% headed, 100% 1986, 98% avg.; 85% mature, 98% 1986; 13% harvested, 56% 1986, 19% avg.; 10% poor, 27% fair, 63% good. Sorghum 100% headed, 100% 1986; 97% coloring, 99% 1986; 86% mature, 91% 1986, 74% avg.; 53% harvested, 60% 1986, 30% avg.; 1% poor, 39% fair, 60% good. Cotton 87% open bolls, 97% 1986, 59% avg.; 5% harvested, 8% 1986; 4% poor, 32% fair, 63% good, 1% excellent. Soybeans 98% blooming, 98% 1986; 83% podding, 85% 1986, 84% avg.; 26% coloring, 40% 1986; 7% shedding, 21% 1986; 1% mature, 5% 1986; 13% poor, 55% fair, 30% good, 2% excellent.

MISSOURI: Temperatures averaged 2 to 3° below normal. Precipitation up to 1.00 in. Caruthersville in Bootheel, little to none elsewhere.

Days suitable for fieldwork 6.1. Topsoil moisture 37% short, 61% adequate, 2% surplus. Late soybeans particularly Bootheel hurt by dry weather. Cotton 10% harvested, none 1986, none avg. Pastures 18% poor, 43% fair, 36% good, 3% excellent; poorest grass growth east central, south central, southeast.

MONTANA: Temperatures 1 to 3° above normal across State. Mostly dry except for south central, southeast.

Days suitable for fieldwork 6.0. Topsoil moisture 10% short, 90% adequate. Subsoil moisture 9% short, 91% adequate. Barley 78% harvested, 80% 1986, 85% avg. Oats 80% harvested, 85% 1986, 88% avg. Corn silage 6% harvested, none 1986, 1% avg. Dry beans

9% harvested, 5% 1986, 5% avg. Second cutting alfalfa 86%, 80% 1986, 83% avg. Cattle, calves moved from summer ranges 7%, 10% 1986, 16% avg. Sheep, lambs moved from summer ranges 7%, 12% 1986, 16% avg.

NEBRASKA: Precipitation latter half of week averaging 0.10 in. Temperatures averaged 1° above normal. Extremes 38°; 100°.

Days suitable for fieldwork 6.1. Topsoil moisture 23% short, 73% adequate, 4% surplus. Subsoil moisture 19% short, 75% adequate, 6% surplus. Row crop maturity well ahead of normal. Grass seeded in CRP acres. Dry beans, potatoes, corn silage harvests full swing. Third cut alfalfa 90%, 82% 1986, 75% avg. Grain hauled off farm, machinery prepped for early upcoming harvest. Cull cows, yearlings to market. Early calves weaned. Pasture, range feed adequate.

NEVADA: Numerous thunderstorms formed central mountains, Sierras early in period. Rainfall amounts light, spotty. Temperatures averaged 3 to 5° above normal all areas. Extremes 23°; 111°.

Russet potato digging operations gained momentum main production areas. Alfalfa seed harvest full swing. Harvesting remained vegetables, hay, small grains main ranch, farm activities.

NEW ENGLAND: Precipitation ranged from less than 0.25 in. north to 0.25 to 0.50 in. south. Temperature ranged mid 50s near Canadian border to mid 60s southern coast.

Days suitable for fieldwork 5.8. Soil moisture 44% short, 56% adequate. Grazing availability 7% very short, 47% short, 40% adequate, 7% surplus. Fieldwork progress 2.7 days ahead. Maine potatoes 15% harvested, 4% 1986, 2% avg.; good to excellent. Maine oats good to excellent. Field corn 12% harvested, 6% 1986, 3% avg.; fair to good. Sweet corn good; 78% harvested, 83% 1986, 76% avg. Shade tobacco good, 95% picked. Outdoor tobacco good, 95% picked. Second crop hay 86% harvested, 83% 1986, 89% avg.; poor to good south, fair to good north. Third crop hay 40% cut, 37% 1986, 49% avg.; fair to good north, poor to good south. Apples 12% harvested, 9% 1986, 7% avg. Apples good, size small to medium, color fair to good. Cranberries very good quality, color good. Major farm activities: Haying, spraying; harvesting fruits, vegetables.

NEW JERSEY: Temperatures averaged below normal. Extremes 38°; 84°. Rainfall averaged 1.04 in. north, 0.58 in. central, 0.59 in. south. Heaviest 24-hour total 1.01 in. on 6th, 7th. Estimated soil moisture percent field capacity averaged 91% north, 77% central, 44% south. Four inch soil temperatures averaged 61° north, 65° central, 67° south.

Harvest of summer vegetables continued to decline. Fall vegetable harvest increased. Sweetpotato digging increased. Peach harvest neared completion. Fall variety apple harvest underway. Grape picking continued. Very limited volume of red raspberries moving to local markets. Corn silage making increased. Soybean, corn for grain prospects good to excellent. Planting of fall sown grains, cover crops increased.

NEW MEXICO. Temperatures over State near normal, low temperature 36° Quemado, high temperature 91° Farmington. Light precipitation statewide. Some light, localized hail damage.

Days suitable for fieldwork 6.1. Soil moisture 7% short, 93% adequate. Alfalfa 45% fair, 55% good. Rain damage most areas. Fourth cutting underway most areas; began 5th some localities. Cotton 33% fair, 67% good. Corn 40% fair, 60% good; 91% dough stage. Irrigated grain sorghum 22% fair, 67% good, 11% excellent; dryland sorghum 20% fair, 60% good, 20% excellent. Irrigated, dryland wheat

planting continued. Potato harvest continued; virtually over High Plains, price not improved to date. Light onion harvest activity continued scattered localities. Pecans 25% fair, 75% good. Chile 25% poor, 75% good; harvest continued. Apples 50% fair, 50% good; light harvest activity. Range 46% fair, 54% good; continued rain stimulating growth. Cattle 23% fair, 77% good; sheep 10% fair, 90% good.

NEW YORK: Harvest continued but slowed by rain, cool temperatures.

Days suitable for fieldwork 4.5. Soil moisture adequate. Pastures fair to good. Second cut alfalfa 94%, 87% 1986, 91% avg. Third cut alfalfa 45%, 31% 1986, 94% avg. Oats 93% harvested, 94% 1986, 93% avg. Dry bean harvest underway. Potato harvest neared midpoint. Vegetable harvest continued to run ahead of normal. Apple harvest full swing.

NORTH CAROLINA: Temperatures averaged 1 to 5° below normal. Temperature extremes 44°; 96°. Precipitation ranged from 0.01 to 6.43 in. across State. Rains locally heavy.

Days suitable for fieldwork 6.1. Soil moisture 31% very short, 37% short, 29% adequate, 3% surplus. Pastures 18% very poor, 24% poor, 37% fair, 21% good. Tobacco 1% very poor, 16% poor, 45% fair, 38% good. Flue-cured tobacco 63% harvested, 59% 1986, 75% avg. Burley tobacco 53% harvested, 39% 1986, 29% avg. Peanuts 7% poor, 41% fair, 52% good. Hay 14% very poor, 22% poor, 41% fair, 23% good. Sweetpotatoes 44% fair, 50% good, 6% excellent. Sweetpotatoes 9% harvested, 6% 1986, 8% avg. Corn for silage 65% harvested, 72% 1986, 61% avg. Corn for grain 14% harvested, 16% 1986, 19% avg. Apples mostly fair to good. Apples 25% harvested, 20% 1986, 25% avg. Major farm activities: Tobacco related spraying, irrigation, harvesting, curing, marketing; harvesting hay, vegetables, peaches, apples, corn silage, corn grain, sweetpotatoes; spraying soybeans, peanuts; christmas tree shearing, tagging, fertilizing; tending livestock; preparing equipment for fall plantings; general farm maintenance.

NORTH DAKOTA: Temperatures averaged 2° below to 1° above normal. Extremes 31° northeast; 94° northwest. Scattered showers, precipitation heaviest southwest 0.48 in.

Days suitable for fieldwork 6.3. Topsoil moisture well above normal; 2% very short, 14% short, 84% adequate. Subsoil moisture well above normal; 2% very short, 11% short, 87% adequate. Small grain harvest ahead of normal. Spring wheat 96% combined, 76% 1986, 84% avg.; durum wheat 90%, 66% 1986, 76% avg.; oats 96%, 88% 1986, 93% avg.; barley 99%, 90% 1986, 95% avg. Most late season crops ahead of normal development. Sunflower 21% bracts brown and beyond, 12% 1986, 10% avg.; soybeans 43% mature and beyond, 23% 1986, 18% avg.; corn grain 87% dented and beyond, 72% 1986, 69% avg.; corn silage 13% cut; 7% 1986, 13% avg.; potatoes 28% dug, 10% 1986, 8% avg.; dry beans 11% combined, 6% 1986, 13% avg.; flax 27% combined, 11% 1986, 31% avg.; sugarbeets 4% lifted. Pastures mostly good.

OHIO: Cool, dry. Average temperatures 2 to 7° subnormal. Lows reached low 40s, highs upper 70s to 80s. Precipitation 0.50 to 0.75 in. north central, northeast early in period; elsewhere less than 0.25 in.

Days suitable for fieldwork 5.7. Soil moisture 40% short, 55% adequate, 5% surplus. Corn good; harvest advanced slowly. Soybeans fair to good; harvesting on limited scale. Soybean maturity 10 to 14 days early. Harvested bean size small. Grasslands fair to good; south poor, brown. Cattlemen feeding hay stockpiled for winter south.

Recent rains problem for processing tomato producers; mold, disease, split fruit, difficult harvest conditions. Grape picking started.

OKLAHOMA: Temperatures averaged 1° below normal northeast to 4° below normal southwest. Precipitation averaged none southeast third to 0.26 in. northeast.

Days suitable for fieldwork 6.4. Topsoil moisture 20% short, 75% adequate, 5% surplus. Subsoil moisture 7% short, 93% adequate. Wheat 10% planted, 5% 1986, 5% avg. Sorghum 1% poor, 15% fair, 80% good, 4% excellent; 65% coloring, 85% 1986, 70% avg.; 5% mature, 15% 1986, 15% avg.; 2% harvested, 2% 1986, 3% avg. Cotton 10% fair, 75% good, 15% excellent; 10% open bolls, 3% 1986, 5% avg. Cotton needs warm, sunny days for boll maturity. Pastures good, cattle good to excellent. Marketings average, prices stable.

OREGON: Temperatures above normal all areas. Interior average temperatures 7° over normal. Warmest weather early 80s along coast, 90s and 100s interior. Midweek temperatures dropped to 70s and 80s. Slight precipitation along coast, eastern areas. Very little rain south where lightening started numerous forest fires.

Soil moisture 92% short, 8% adequate. Grain harvest, alfalfa cutting continued eastern counties. Western growers cut last alfalfa, continued harvest of red clover seed, alfalfa seed. Corn silage harvest started southwest. Willamette Valley growers continued cleaning, sampling, tagging grass seed. Soil preparation activities underway statewide. Some wheat, rapeseed planted Pendleton area. Berry harvest continued some western fields. Cantaloupe, watermelon harvest at peak, pear harvest finished southwest. Eastern growers began apple, plum harvest. Vegetable harvest continued, excellent harvest conditions Willamette Valley. Norgold potato harvest nearly complete, russet potato harvest full swing Hermiston area. Potato early harvest yields, quality above average Malheur County. Hermiston-Boardman growers seeding Walla Walla sweet onions. Garlic harvest complete seeding to start next week Jefferson County. Livestock mostly good statewide. Range, pasture poor to good. Eastern ranges drying rapidly, water supplies growing scarce.

PENNSYLVANIA: Week cooler, drier than normal. Average temperature 61°, 5° below normal. Temperature extremes 34°; 82°. Average precipitation 0.49 in., 0.36 in. below normal.

Days suitable for fieldwork 5.0. Soil moisture 28% short, 68% adequate, 4% surplus. Corn 95% dough, 98% 1986, 88% avg.; 61% dent, 57% 1986, 46% avg.; 12% mature, 10% 1986, 4% avg.; 1% harvested. Corn 2% very poor, 10% poor, 25% fair, 39% good, 24% excellent. Ensilage corn 23% harvested, 19% 1986, 13% avg. Soybean 1% very poor, 7% poor, 23% fair, 46% good, 23% excellent. Potato 40% harvested, 58% 1986. Tobacco 67% harvested, 60% 1986. Second cutting alfalfa 97%, 100% 1986. Third cutting alfalfa 60%, 77% 1986. Fourth cutting alfalfa 24%, 18% 1986. Second cutting clover-timothy 87%, 90% 1986. Quality of hay made fair to good. Amount of feed being obtained from pasture average to below average. Apples 32% harvested, 38% 1986. Peach 86% harvested, 90% 1986. Activities: Harvesting hay, haylage, grass silage, corn for grain and silage, fruit, potatoes and other vegetables, tobacco; fall plowing; seeding alfalfa, wheat and barley; clipping pastures; hauling manure; machinery maintenance; caring for livestock.

PUERTO RICO: Island average rainfall 1.57 in., 0.28 in. below normal. Highest weekly total rainfall 4.61 in. Gurabo, 3.26 in. Dos Bocas, 3.24 in. Corozal. Highest 24-hour total 3.71 in.

Gurabo. San Juan mean temperature 83°, 1° above normal. Total rainfall 0.77 in., 0.63 in. below normal. Divisional temperature averaged about 82 to 83° on coasts, 77 to 78° interior, mean station temperature 68°. Pico Del Este-Luquillo to 84° Roosevelt Roads. Lowest minimum temperature 52° Pico Del Este-Luquillo. Highest maximum temperature 96° Mayaguez.

SOUTH CAROLINA: Rainfall 0.21 to 12.5 in. across State. Temperatures 3 to 5° below normal mid State and coast, normal upstate.

Days suitable for fieldwork 4.4. Soil moisture 10% very short, 43% short, 40% adequate, 7% surplus. Cotton 39% open bolls, 47% 1986, 55% avg.; 3% very poor, 3% poor, 84% fair, 10% good. Soybeans 98% blooming, 92% 1986, 96% avg.; 74% setting pods, 70% 1986, 80% avg.; 7% leaves turning, 4% 1986, 5% avg.; 1% leaves shedding, 1% 1986; 1% very poor, 7% poor, 45% fair, 47% good. Tobacco good; 92% harvested, 90% 1986, 92% avg. Corn fair; 46% harvested, 54% 1986, 51% avg. Peanuts 5% harvested, 1% 1986.

SOUTH DAKOTA: Average temperatures 2° above or below normal. Extremes 32°; 101°. Aberdeen, Britton, Black Hills 32°. Light rainfall ranged none to 2.08 in. Averaged 0.25 to 0.50 in. west, east.

Days suitable for fieldwork 5.9. Topsoil moisture decreased from previous week 10% critically short, 72% short, 18% adequate. Warm, windy weather damaging ranges, pastures, immature crops.

TENNESSEE: Temperatures 2° below normal. Rainfall 0.75 in. below normal.

Days suitable for fieldwork 6.1. Soil moisture 65% very short, 34% short, 1% adequate. Corn 97% dent, 93% 1986, 96% avg. Corn 70% mature, 70% 1986, 50% avg. Corn silage 75% harvested, 60% 1986. Corn grain 19% harvested, 16% 1986, 8% avg. Corn 1% very poor, 10% poor, 50% fair, 33% good, 6% excellent. Tobacco 95% topped, 87% 1986. Burley 70% harvested, 45% 1986, 55% avg. Dark fired 60% harvested, 55% 1986, 50% avg. Dark air-cured 55% harvested, 45% 1986, 50% avg. Tobacco 4% very poor, 21% poor, 63% fair, 12% good. Cattle mostly fair. Pastures poor.

TEXAS: Light rain persisted south, drier air replaced air mass rest State early. Cooler nights trend south, north, west. Some weekend rains Trans-Pecos, south. Only area above normal rainfall High Plains, rest State under influence dry air mass. Cool nights resulted below normal temperatures throughout area.

Crops: Corn harvest neared end most central, southern areas. Rain delaying final stages. Scattered showers slowed harvest progress early week Blacklands, activity increased, winding down late week. Harvest to begin soon Plains. Cooler temperatures slowed maturing; many fields reached maturity. Silage harvest continued. Grain sorghum harvest winding down central, Blacklands. Harvest delayed Low Plains, Hill Country by rain. Fields turning color Plains. Rains may help to fill heads. Sorghum 100% headed, 98% 1986, 98% avg. Cotton progressed well Plains after temperatures warmed up late week. Crop continued to look good; boll weevils increased many wetter fields. Defoliating, harvesting continued Blacklands. Harvest increased central. Producers trying to finish Coastal Bend, Valley, showers held up operations. Cotton 12% harvested, 12% 1986, 12% avg. Small grain planting full swing Plains midweek. Land preparations good, moved along Cross-Timbers, Blacklands. Some small grain pastures planted east. Wheat none emerged, 1% 1986, none avg. First crop rice harvest reaching final stages Upper Coast. Soybeans excellent

Plains. Recent moisture helped. Harvest early varieties continued Upper Coast. Rains should help later beans. Peanuts also benefited from rain last week. Some spraying leaf spot occurred. Additional moisture needed dryland fields. Harvest slow southern areas because of showers. Other field crops: Peanuts 5% harvested, 8% 1986, 5% avg. Soybeans 13% harvested, 10% 1986, 3% avg. Sunflowers none harvested, 2% 1986, 2% avg. Oats 4% planted, 3% 1986, 2% avg.

Commercial Vegetables: Rio Grande Valley, land preparation, planting slowed by rain. Some transplanting celery, tomatoes, peppers occurred. Cabbage making good progress. San Antonio-Winter Garden some planting cabbage, carrots, greens underway. East sweetpotato harvest continued. Additional moisture would improve production. Prices good at present. High Plains, carrot production good. Quality also good. Potato harvest winding down. Trans-Pecos bell peppers look good. Heavy rains washed out some chili fields. Rains should help bring pecans to average crop many areas. Insects continued to plague many groves. Considerable drop occurred so far because of dry weather.

Range and Pasture: Rain definite blessing range, pasture conditions many areas. Both growth, greening began again wetter areas. Stock tank water levels improved. Livestock remained good. Marketings continued steady. Fall shearing continued Hill Country.

UTAH: Precipitation very light. Temperatures 3 to 5° above normal.

Days suitable for fieldwork 6.3. Soil moisture 29% short, 71% adequate. Winter wheat 45% seeded, 35% 1986, 20% avg. Spring wheat 94% harvested, 100% 1986, 86% avg. Oats 86% harvested, 79% 1986, 65% avg. Alfalfa hay 3rd cutting 49%, 31% 1986, 26% avg. Corn 81% dough, 79% 1986, 62% avg.; 44% dented, 37% 1986, 31% avg.; silage harvest began. Peach harvest neared completion; pear harvest well along. Apple harvest underway. Onion harvest continued. Higher elevation ranges holding well. Lower elevation ranges recovering. Cattle, sheep continued good to excellent.

VIRGINIA: Normal late summer weather early period. Heavy rains began end period. Continued dry conditions. Weekend rainfall ranged from 0.75 to 11.0 in. Small stream, lowland flooding.

Days suitable for fieldwork 6.1. Topsoil moisture 93% short, 7% adequate. Small grain land preparation delayed by dry soils. Corn poor, combining 18%, 14% 1986, 14% avg. Silage 46% harvested, 23% 1986, 40% avg. Quality poor. Soybeans poor. Scouting, spraying continued, especially for corn earworm; 98% blooming, 78% 1986, 92% avg.; 82% setting pods, 75% 1986, 85% avg. Peanuts good to excellent. Spraying continued. Overall tobacco fair. Non-irrigated very poor. Suckering, pulling flue-cured. Tobacco 46% harvested, 23% 1986, 54% avg. Dark fire 46% harvested, 39% 1986, 66% avg. Burley 32% harvested, 9% 1986, 39% avg. Sun cured 26% harvested, 53% 1986, 51% avg. Hayland very poor. Cattle turned in to graze. Pastures failure. Livestock good to excellent but early sales continued due to poor feed supplies. Water supplies for livestock could be problem.

WASHINGTON: Hot, dry weather prevailed. Temperatures averaged 7 to 10° above normal. Extremes 34° Goldendale, 103° Walla Walla. Precipitation light west; negligible elsewhere.

Days suitable for fieldwork 7.0. Soil moisture 70% short, 30% adequate. Fall planting continued. Winter wheat 30% seeded, 21% 1986, 21% avg. Winter wheat emerging Douglas, Grant, Adams Counties. Rapeseed emerging Adams, Lincoln Counties. Columbia Basin potatoes 24% harvested. Corn silage harvest underway Grant, Benton Counties. Cutting of 3rd crop hay winding down. Alfalfa seed harvest neared midpoint Walla Walla County. Hop harvest active. Wine grape harvest continued; yields lower than expected, quality excellent. Apple harvest continued, early stages. High temperatures caused sunburned fruit some orchards. Harvest of peaches, bartlett pears neared completion. West of Cascades late varieties of blueberries being picked. Other growers irrigating strawberries, raspberries. Harvest of fresh market corn completed Yakima Valley. Cannery corn harvest continued. Harvest of carrots, cucumbers, peppers, watermelons winding down. Onion harvest full swing, Grant County. Cauliflower, broccoli, sweet corn, vegetable seed crops being harvested western area. Range, pastures 60% short, 40% adequate. Stockmen continued bringing cattle off ranges. Many cattlemen preparing for fall calving. Hay, roughage feed supplies 70% adequate, 30% surplus.

WEST VIRGINIA: Average temperature 64°, 2 to 5° below normal. Extremes 32° Greenbank; 90° Ripley. Precipitation averaged 0.75 in.

Days suitable for fieldwork 5.6. Soil moisture 60% very short, 40% short. Farm activities: General maintenance, harvesting hay, corn, tobacco, livestock care. Corn mostly poor to fair. Hay, tobacco poor to very poor. Fruit mostly fair. Second cut hay 90% harvested, 77% 1986.

WISCONSIN: Temperatures averaged 62°, 2° below normal. Extremes 33°; 91°. Rainfall 0.10 to 0.80 in. Most rain north.

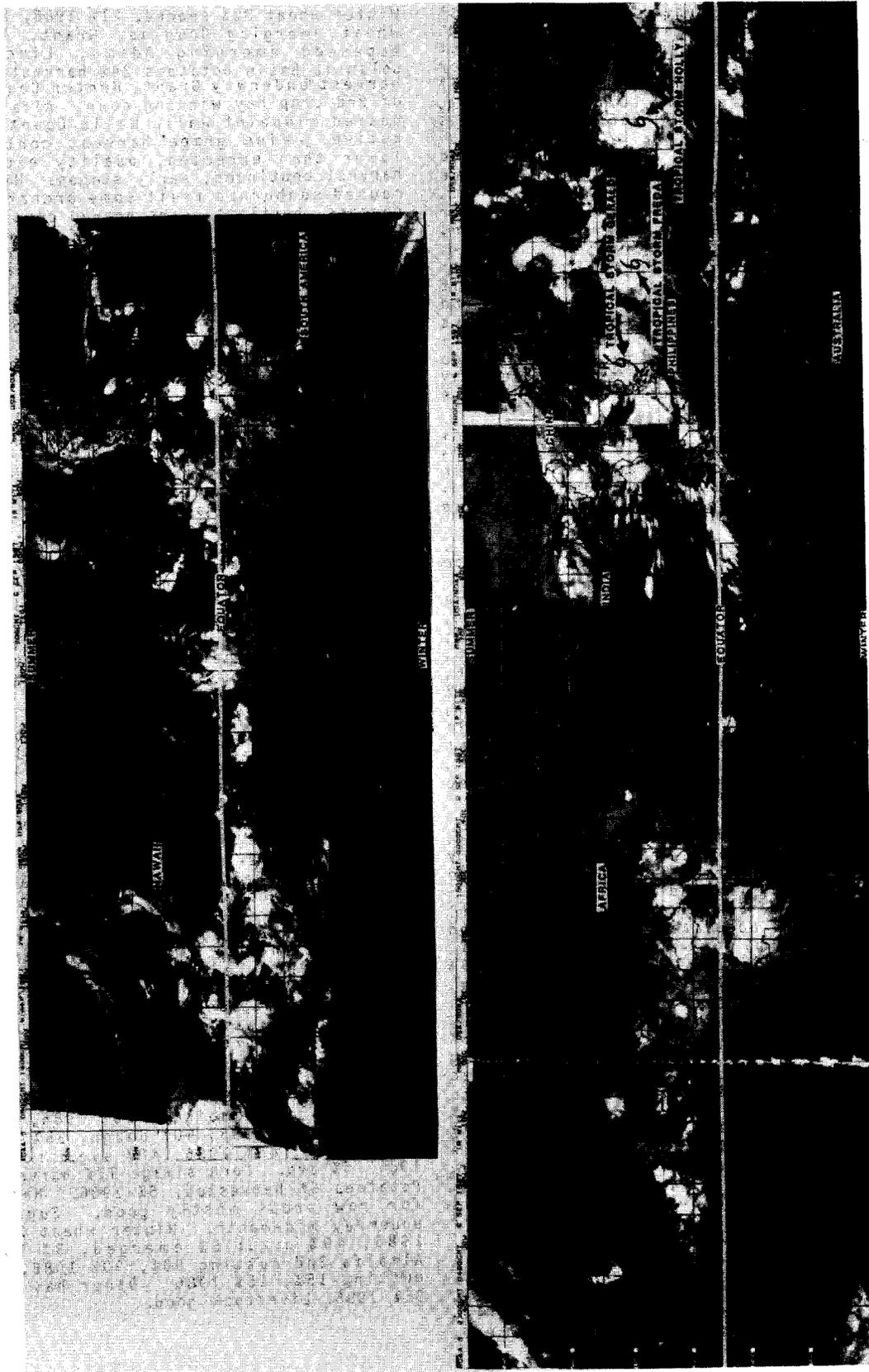
Days suitable for fieldwork 6.5. Soil moisture 24% short, 67% adequate, 9% surplus. Crops 2% poor, 11% fair, 72% good, 15% excellent. Corn 87% in dent, 59% 1986, 45% avg. Corn 40% mature, 12% 1986, 11% avg. Some corn borer damage south. Corn silo filling 10%, 7% 1986, 3% avg. Soybean 32% leaves turned, 23% 1986, 22% avg. Soybean 7% leaves shedded. Third crop hay 59% cut, 37% 1986, 35% avg. Good haying weather. Lots of haylage central, southwest. Snap bean harvest continued. Recent sweet corn yields very good.

WYOMING: Temperatures above normal. Precipitation also above normal most areas.

Days suitable for fieldwork 6.0. Topsoil moisture 37% short, 63% adequate. Subsoil moisture 40% short, 60% adequate. Barley 10% mature, 15% 1986; 90% harvested, 85% 1986, 80% avg. Spring wheat 10% mature, 15% 1986; 90% harvested, 85% 1986, 85% avg. Oats 15% mature, 20% 1986; 85% harvested, 80% 1986, 75% avg. Dry beans 95% turning color, 75% 1986; 40% windrowed, 40% 1986, 40% avg.; 10% combined, 20% 1986, 15% avg. Corn 15% milk, 5% 1986; 40% dough, 35% 1986, 40% avg.; 45% dented, 45% 1986, 40% avg.; none mature, 15% 1986, 5% avg. Corn silage 15% harvested, 15% 1986. Potatoes 5% harvested, 5% 1986. Harvest prospects for row crops mostly good. Sugarbeet harvest underway mid-month. Winter wheat 25% seeded, 35% 1986, 40% avg.; 5% emerged, 5% 1986, 10% avg. Alfalfa 2nd cutting 90%, 90% 1986, 80% avg.; 3rd cutting 15%, 15% 1986. Other hay 95% harvested, 95% 1986. Livestock good.

Global Weather Satellite Image

September 6, 1987



International Weather and Crop Summary

August 1987

MONTHLY DATA FROM SELECTED FOREIGN CITIES

CLIMATE ANALYSIS CENTER-NMC-NWS-NOAA

*** = DATA NOT AVAILABLE

August 30 - September 5, 1987

HIGHLIGHTS:

UNITED STATES ... Below-normal temperatures slow crop development in the eastern half of the Nation. Soil moisture is short in the Delta and critically short in the Southeast.

U.S.S.R. ... In Western U.S.S.R., winter grain planting progressed southward and topsoil moisture in the north is adequate to surplus for emergence. In the New Lands, dry weather in central areas helps harvesting.

EUROPE ... Showers continue to delay harvest in western and northern areas. Dry weather develops over East Germany and Poland, allowing for a resumption of harvest. Warm and dry weather persists in the southeast.

SOUTH ASIA ... Persistent dry weather in southern India stresses reproductive to filling crops. Showers in central India and parts of the north benefit reproductive to filling crops and boost irrigation levels.

SOUTHEAST ASIA ... Drier weather returns to northern Thailand. Locally heavy showers cause flooding in the Philippines.

EASTERN ASIA ... Moderate to heavy rain over Shandong and Hubei is unfavorable for maturing crops. Drier weather in the Manchurian Valley is welcomed, following last week's heavy rainfall.

CANADA ... Locally heavy rain slows Alberta's harvest, but mostly dry weather favors the harvest in Saskatchewan and Manitoba.

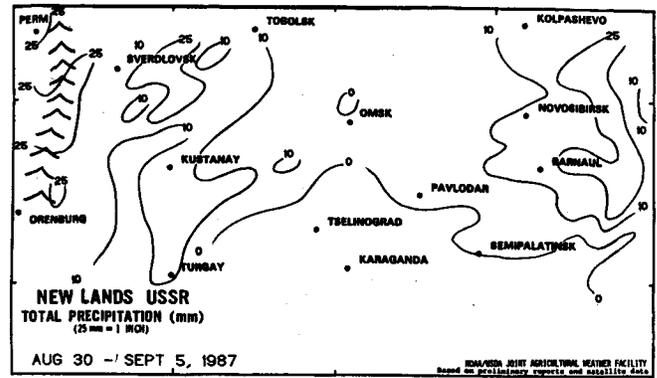
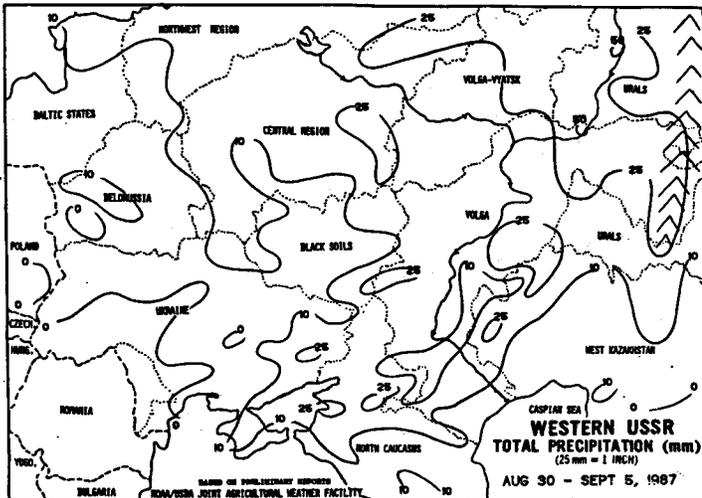
SOUTH AMERICA ... Light showers favor wheat in Argentina. Heavy showers persist in southern Brazil.

AUSTRALIA ... Showers benefit jointing to heading wheat in New South Wales. Scattered light rain covers most other growing areas.

MEXICO ... Beneficial rain for irrigated crops fell in the northwestern mountains. Rain in the Southern Plateau slows early corn harvesting but helps immature crops.

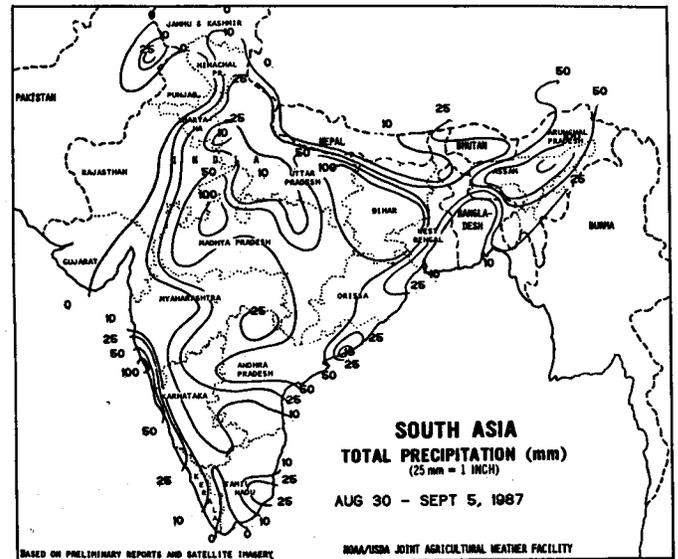
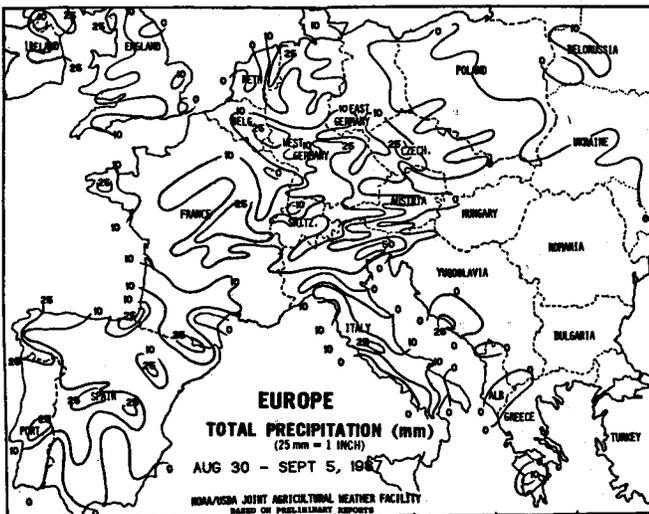
COUNTRY CITY	TEMPERATURE (C)					PRECIPITATION (MM)	
	AVG	AVG	HI	LO	DPART	TOTAL	DPART
	MAX	MIN	MAX	MIN	AVG	F/NRM	F/NRM
NORWAY OSLO	16	8	21	2	12	-2.0	80.6 -17.6
SWEDEN STOCKHOLM	17	10	22	5	14	-2.7	92.8 22.0
FINLND HELSINKI	16	9	20	4	13	-2.8	83.1 7.5
U KING GLASGOW	19	10	22	3	14	-1.3	93.2 2.3
EDINBURGH	19	10	23	3	14	0.2	69.6 -4.4
BIRMINGHAM	20	11	28	4	16	0.2	63.7 -8.4
LONDON	21	11	29	5	16	0.3	43.6 -13.4
IRELND DUBLIN	19	11	27	6	15	0.5	74.9 0.3
ICELND REYKJAVIK	13	9	17	6	11	0.5	25.7 -29.6
DENMRK COPENHAGEN	18	11	25	5	15	-2.4	58.0 -8.0
LUXEMB LUXEMBOURG	20	12	28	5	16	-0.5	83.4 9.9
SWITZL ZURICH	22	13	29	8	18	0.9	111.7 -30.5
GENEVA	25	13	32	7	19	1.1	74.9 -26.2
FRANCE PARIS	23	13	33	7	18	0.1	103.3 45.7
STRASBOURG	23	14	31	7	19	0.5	60.2 -12.7
BOURGES	25	13	36	7	19	0.6	40.9 -26.1
BORDEAUX	27	15	37	8	21	1.9	41.1 -23.1
TOULOUSE	28	16	39	10	22	1.8	27.4 -20.2
MARSEILLE	29	18	36	12	23	0.7	45.4 19.8
SPAIN VALLADOLID	32	15	39	9	23	2.4	0.1 -9.8
MADRID	33	17	41	12	25	1.4	15.7 5.3
SEVILLE	34	20	41	16	27	0.2	54.1 49.6
E GRMY LEIPZIG	21	12	29	6	17	-0.7	84.5 25.1
DRESDEN	21	13	28	7	17	-1.0	110.5 38.5
W GRMY HAMBURG	19	12	30	7	16	-0.5	83.1 -0.8
BERLIN	20	13	28	7	17	-1.5	79.0 13.9
DUSSELDORF	22	14	31	7	18	-0.3	53.8 -24.2
STUTTGART	22	12	30	7	17	0.2	69.1 -29.5
NURNBERG	21	13	29	5	17	0.0	84.3 11.2
MUNICH	22	12	29	5	17	0.0	88.6 -23.8
AUSTRI VIENNA	23	14	28	9	18	-1.2	65.9 3.9
INNSBRUCK	24	12	31	4	18	0.6	95.2 -24.4
CZECH PRAGUE	21	11	27	5	16	-1.0	49.0 -16.8
POLAND WARSAW	20	11	29	5	16	-1.8	37.4 -18.3
LODZ	20	11	30	4	15	-1.3	60.7 -6.4
KATOWICE	20	11	30	5	16	-1.0	70.0 -20.9
PRZEMYSL	20	12	28	7	16	-1.5	44.9 -33.0
HUNGAR BUDAPEST	23	13	30	8	18	-2.0	58.5 11.5
YUGOSL SARAJEVO	27	12	32	7	19	1.6	55.0 -22.0
ROMANI BUCHAREST	28	14	36	10	21	-1.3	42.0 -10.2
BULGAR SOFIA	26	15	34	10	21	0.7	64.1 25.3
ITALY MILAN	27	18	31	14	23	0.9	165.6 71.0
VERONA	27	18	31	12	23	0.4	113.1 31.8
VENICE	27	17	30	13	22	-0.5	43.2 -33.1
GENOA	28	22	32	18	25	0.8	45.8 -8.0
ROME	30	20	32	16	25	1.0	17.2 -10.0
NAPLES	31	19	35	13	25	2.2	1.6 -55.5
GREECE THESSALONIKA	30	19	35	14	24	-1.9	36.0 16.0
LARISSA	32	18	38	12	25	-1.9	12.6 0.6
ATHENS	31	22	36	17	26	-1.8	9.3 4.0
TURKEY ISTANBUL	27	18	32	14	23	-0.7	19.3 -1.7
ANKARA	28	11	37	-1	19	-4.1	3.7 -33.3
CYPRUS LARNACA	33	22	38	17	27	-0.2	0.1 -0.9
USSR TALLINN	17	10	24	6	14	-1.9	173.6 104.2
LENINGRAD	17	11	22	5	14	-2.2	181.9 108.1
KAUNAS	19	11	26	7	15	-1.6	85.6 22.5
MINSK	19	10	28	6	15	-2.0	63.6 -14.0
KAZAN	21	12	27	3	16	-1.0	82.8 18.9
MOSCOW	20	11	26	6	15	-1.2	50.9 -23.1
SVERDLOVSK	21	11	31	0	16	1.1	48.8 -15.9
OMSK	25	13	34	0	19	3.2	30.8 -22.6
KUSTANAY	24	13	32	2	19	0.8	66.5 35.2
KRASNOYARSK	23	9	30	2	16	0.9	25.8 -44.8
NOVOSIBIRSK	23	13	31	3	18	2.1	34.9 -18.4
BARNAUL	25	13	33	4	19	2.3	11.6 -41.0
KHABAROVSK	23	16	30	10	19	0.0	151.3 29.6
VLADIVOSTOK	19	16	26	15	18	-1.6	184.2 30.8
KIEV	21	11	28	7	16	-2.8	59.7 -11.3
LVOV	20	10	30	5	15	-2.1	67.5 -16.6
KIROVOGRAD	23	12	29	8	18	-2.6	45.9 1.8

COUNTRY CITY	TEMPERATURE (C)					PRECIPITATION (MM)			COUNTRY CITY	TEMPERATURE (C)					PRECIPITATION (MM)					
	August 1987		AVG	HI	LO	DPART	DPART	August 1987		August 1987		AVG	HI	LO	DPART	DPART				
	MAX	MIN	MAX	MIN	AVG	F/NRM	TOTAL	F/NRM		MAX	MIN	MAX	MIN	AVG	F/NRM	TOTAL	F/NRM			
USSR	ODESSA	25	14	29	1	19	-2.0	19.1	-14.1	ETHIOP	ADDIS ABABA	22	11	26	9	17	1.5	180.1	-84.0	
	YALTA	25	18	28	13	21	-2.3	60.7	34.8	KENYA	NAIROBI	24	12	28	6	18	0.6	17.2	2.9	
	VORONEZH	22	12	29	7	17	-1.8	89.2	30.5	TANZAN	DAR ES SALAAM	29	19	31	17	24	0.7	77.0	51.9	
	SARATOV	23	15	30	9	19	-0.7	53.3	13.9	GABON	LIBREVILLE	27	23	29	15	25	0.6	1.0	-5.5	
	KHARKOV	22	13	30	6	17	-2.5	40.5	-42.8	TOGO	LOME	29	24	30	13	27	1.9	144.9	118.8	
	VOLGOGRAD	25	15	32	9	20	-2.6	25.2	-5.2	B FASO	OUAGADOUGOU	32	23	37	19	28	1.5	222.6	-27.2	
	ROSTOV	25	15	33	10	20	-2.1	22.2	-19.3	IVRY C	ABIDJAN	28	24	30	22	26	2.2	149.2	120.1	
	ASTRAKHAN	29	17	36	10	23	-0.9	41.5	25.9	MOZAMB	MAPUTO	25	16	33	13	20	0.2	37.0	20.8	
	KRASNODAR	27	15	33	11	21	-1.9	11.0	-44.9	ZAMBIA	KABWE	26	12	30	8	19	0.9	0.1	0.1	
	ORENBURG	26	13	35	5	19	-0.3	19.7	-8.6	S AFRI	PRETORIA	21	8	26	5	14	0.5	24.2	18.7	
	TSELINOGRAD	25	14	34	4	19	1.7	26.3	-7.6		JOHANNESBURG	18	6	22	2	12	0.1	20.0	13.7	
	KARAGANDA	26	13	36	2	19	1.9	23.2	-5.6		BETHAL	18	4	23	-1	11	-0.4	34.7	25.8	
	TBILISI	28	19	37	11	24	-0.6	51.0	6.0		DURBAN	22	13	28	9	17	0.0	64.1	13.4	
	TASHKENT	36	19	40	14	28	2.7	0.1	-2.9		CAPE TOWN	19	8	30	1	14	1.3	100.2	21.0	
	ASHKHABAD	38	22	43	15	30	1.1	0.1	-0.7	CANADA	TORONTO	26	14	33	6	20	-0.1	46.4	-30.4	
SYRIA	DAMASCUS	37	17	44	12	27	0.1	0.1	0.1		MONTREAL	25	13	34	6	19	-0.8	54.0	-37.9	
ISRAEL	JERUSALEM	30	19	34	15	24	0.3	0.1	0.1		WINNIPEG	24	11	31	3	17	-1.0	97.1	21.9	
PAKIST	KARACHI	33	27	36	26	30	0.7	0.1	-53.5		REGINA	23	8	31	2	16	-2.2	30.7	-14.0	
INDIA	AMRITSAR	35	25	40	20	30	0.4	95.1	-88.9		SASKATOON	21	8	29	2	15	-2.7	41.4	3.7	
	NEW DELHI	37	28	42	24	33	3.1	150.2	-97.9		LETHBRIDGE	21	8	31	3	15	-2.8	55.6	8.4	
	AHMEDABAD	36	27	40	24	32	3.3	176.8	-42.7		CALGARY	19	7	27	3	13	-2.1	108.1	52.6	
	INDORE	31	23	36	21	27	1.9	392.7	101.9		EDMONTON	19	9	26	4	14	-2.4	74.0	-3.9	
	CALCUTTA	33	27	36	25	30	0.6	402.4	114.3		VANCOUVER	22	13	28	9	18	0.6	26.9	-14.2	
	VERAVAL	31	26	33	20	29	1.4	86.8	-96.2	MEXICO	GUADALAJARA	28	16	29	15	22	1.4	213.7	2.4	
	BOMBAY	30	25	33	23	28	0.8	827.1	166.6		MEXICO CITY	25	13	27	12	19	2.4	191.9	88.5	
	POONA	29	22	32	14	26	1.3	219.0	103.0		ACAPULCO	34	25	39	23	30	0.9	53.4	-218.6	
	BEGAMPET	31	22	35	20	27	0.7	177.7	11.5		BERMUD	ST. GEORGES	29	25	30	22	27	-0.4	113.5	-32.6
	MADRAS	35	26	38	23	30	0.6	120.0	-36.0		BAHAMA	NASSAU	32	25	33	22	28	0.6	173.3	-13.7
	MANGALORE	29	23	33	20	26	0.2	667.9	90.8		CUBA	HAVANA	33	25	35	21	29	1.4	107.7	8.4
H KONG	HONG KONG	31	27	32	25	29	0.9	176.5	-236.9		JAMAIC	KINGSTON	34	26	36	24	30	1.6	20.2	-76.3
N KREA	PYONGYANG	26	19	29	12	23	-1.7	589.4	357.5		P RICO	SAN JUAN	32	25	33	24	29	0.9	54.6	-93.4
S KREA	SEOUL	28	22	32	19	25	-0.3	508.1	284.1		GUADEL	RAIZET	33	25	34	23	29	1.7	61.8	-82.5
JAPAN	SAPORO	24	18	30	15	21	-0.2	137.6	3.0		MARTINQ	LAMENTIN	32	25	32	17	28	2.2	106.2	-137.6
	NAGOYA	33	25	36	21	29	1.8	79.5	-90.8		BARBAD	BRIDGETOWN	30	25	32	20	28	0.5	66.6	-81.6
	TOKYO	31	25	34	21	28	1.1	50.5	-86.8		TRINID	PORT OF SPAIN	33	24	34	23	28	2.1	67.1	-166.9
	YOKOHAMA	30	24	34	20	27	1.0	61.5	-70.7		COLOMB	BOGOTA	19	9	21	3	14	0.7	74.6	37.1
	KYOTO	33	24	36	21	29	2.0	35.0	-124.9		VENEZU	CARACAS	32	25	35	23	29	1.8	98.8	47.9
	OSAKA	33	26	35	23	29	1.3	48.0	-55.2		F GUIA	CAYENNE	32	23	32	21	27	1.5	130.4	-34.4
THAILN	PHETCHABUN	33	24	39	22	29	1.4	255.6	57.0	BRAZIL	FORTALEZA	30	23	32	22	27	0.3	8.8	-21.5	
	BANGKOK	34	27	37	24	30	1.7	51.2	-146.7		RECIFE	29	22	32	20	25	1.2	130.8	-37.5	
MALAYS	KUALA LUMPUR	32	24	33	23	28	1.3	168.5	26.0		BELO HORIZONTE	28	15	33	11	22	1.4	1.4	-8.4	
VIETNM	HANOI	32	26	36	24	29	1.0	277.5	-65.4		CAMPO GRANDE	28	15	36	2	22	0.4	22.5	-6.5	
CHINA	HARBIN	26	17	30	14	21	-0.3	188.7	91.5		FRANCA	26	14	31	3	20	0.7	7.1	-3.8	
	HAMI	34	17	39	12	25	-0.2	3.4	-0.1		RIO DE JANEIRO	26	18	36	14	22	0.1	36.1	-14.5	
	LANCHOW	29	15	34	12	22	1.2	30.6	-54.8		LONDRINA	25	12	33	4	18	0.2	2.0	-55.3	
	BEIJING	30	20	36	18	25	0.6	241.5	29.2		SANTA MARIA	18	10	25	4	14	-1.4	166.3	40.3	
	TIENTSIN	31	22	34	19	26	0.6	152.6	-9.8		PORTO ALEGRE	18	12	25	8	15	-0.1	255.7	141.7	
	LHASA	20	10	25	7	15	-0.7	154.8	22.5	PERU	LIMA	20	16	22	16	18	2.1	2.0	0.2	
	KUNMING	23	16	27	9	20	0.9	134.0	-68.3	BOLIVI	LA PAZ	15	-2	18	-4	7	-1.2	1.0	-14.6	
	CHENGCHOW	32	22	35	19	27	1.4	136.2	16.9	CHILE	SANTIAGO	15	5	23	-1	10	0.6	164.4	115.9	
	YEHCHANG	32	24	37	22	28	0.6	203.1	27.2	ARGENT	IGUAZU	22	12	33	3	17	****	30.7	*****	
	HANKOW	33	25	35	22	29	0.4	225.1	105.6		FORMOSA	23	12	33	5	17	0.9	18.8	-29.2	
	CHIHKIANG	32	24	37	20	28	0.8	83.3	-40.2		CERES	20	8	32	-1	14	0.0	13.7	-10.4	
	SHANGHAI	33	25	37	23	29	1.5	228.1	102.1		CORDOBA	18	5	27	-2	11	-0.6	0.1	-10.7	
	NANCHANG	33	26	36	23	30	0.2	151.8	48.6		RIO CUARTO	15	5	25	-2	10	-0.5	24.8	7.9	
	TAIPEI	34	27	37	22	30	2.4	114.4	-170.6		ROSARIO	16	6	24	-2	11	0.0	10.2	-28.4	
	CANTON	33	25	37	23	29	1.0	226.1	-1.6		BUENOS AIRES	16	6	24	-1	11	0.2	41.7	-21.2	
	NANNING	32	25	36	23	29	0.9	308.7	93.1		SANTA ROSA	14	4	23	-2	9	-0.2	78.4	61.8	
CNRY I	LAS PALMAS	28	21	33	19	24	0.6	0.1	0.1		TRES ARROYOS	13	5	20	-1	9	0.8	53.2	11.4	
MOROCC	CASABLANCA	27	20	32	14	23	0.7	1.1	0.2	MIDW I	MIDWAY ISLAND	31	26	33	23	29	2.6	17.1	-148.6	
	MARRAKECH	35	21	47	17	28	0.0	4.1	2.0	N CALD	NOUMEA	24	18	28	12	21	0.9	114.0	44.4	
ALGERI	ALGER	33	21	42	16	27	2.0	0.7	-3.5	FIJI	NAUSORI	25	20	28	18	22	-0.2	65.5	-132.9	
	BATNA	34	19	38	14	26	2.4	0.1	-20.0	SAMOA	PAGO PAGO	28	24	33	22	26	-0.2	111.8	-68.1	
TUNISI	TUNIS	35	22	44	19	28	2.1	4.1	-4.4	TAHITI	PAPEETE	28	21	31	17	25	0.3	84.6	39.5	
NIGER	NIAMEY	34	25	39	21	29	1.9	114.0	-84.2	N ZEAL	AUCKLAND	16	9	18	3	12	0.4	51.1	-73.8	
MALI	TIMBUKTU	38	27	44	21	33	2.6	47.2	-32.8		WELLINGTON	14	8	16	5	11	2.0	85.0	-45.8	
	BAMAKO	31	23	37	21	27	1.0	318.1	14.4		MOREE	18	9	23	3	13	1.2	78.6	40.7	
MAURIT	NOUAKHOTT	35	27	44	21	31	2.1	8.1	-32.4		BRISBANE	21								



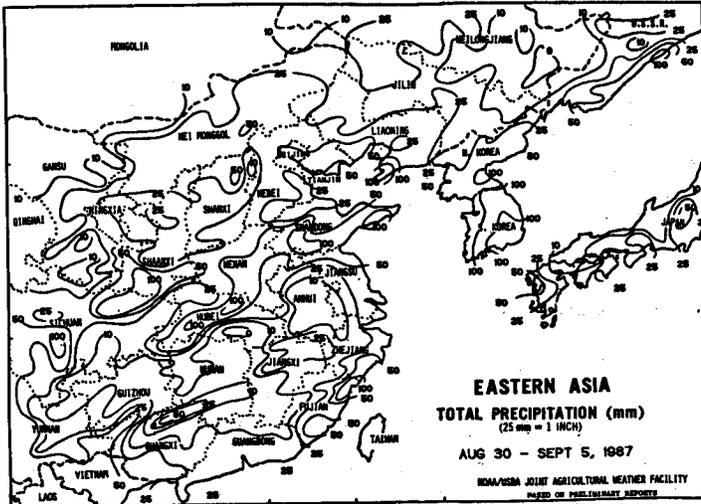
U.S.S.R. ... In Western U.S.S.R., mostly dry weather over the Baltic States, Belorussia, and the western Ukraine helped harvest activities. Early-week showers and thunderstorms over the eastern Ukraine, northern North Caucasus, the Volga, and the Central Region may have caused some fieldwork delays, but dry weather by week's end allowed fieldwork to advance. Winter grain planting is normally progressing southward over the region. Topsoil moisture for emergence and early plant establishment was adequate to surplus over the Baltic States, Belorussia, the Central Region, Volga Vyatsk, and the upper Volga. The optimum time for winter wheat planting across the south is September 10-20. Average weekly temperatures were well below normal over much of the region. Warmer weather is needed for summer crop maturation and to ensure sufficient winter grain establishment.

In the New Lands, wet weather (17-30mm) covered the Urals and extreme eastern spring grain areas, causing some delays in harvesting. Dry weather over central areas in Western Siberia and Kazakhstan allowed harvesting to rapidly progress northward.

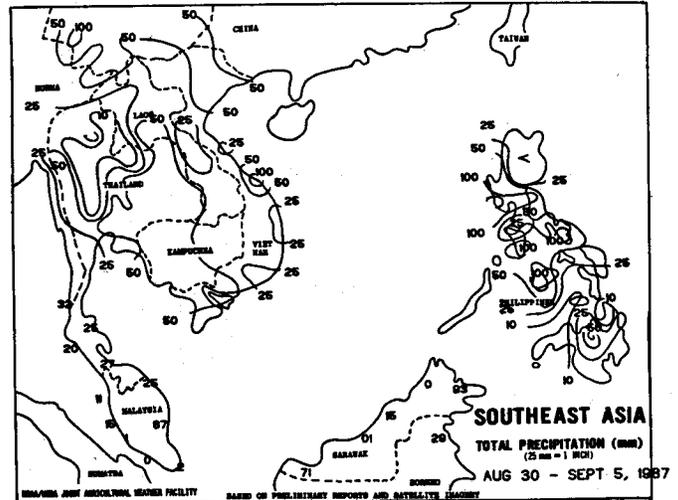


EUROPE ... Moderate to heavy showers (25-50mm) spread from northern Spain to northern West Germany, with heaviest rainfall over eastern France and southern West Germany. The rain continued to delay winter grain harvest and damaged mature grain in some cases. The wetness also delayed early fall tillage in some northern areas. Heavy showers (40-85mm) also covered northeastern Italy and northwestern Yugoslavia, benefiting corn but slowing late wheat harvest. Warm, dry weather developed over much of eastern Europe, helping to advance the winter grain harvest in previously wet areas of East Germany and Poland. Persistent dryness and above-normal temperatures, however, continued to stress corn in the filling stage in southeastern areas.

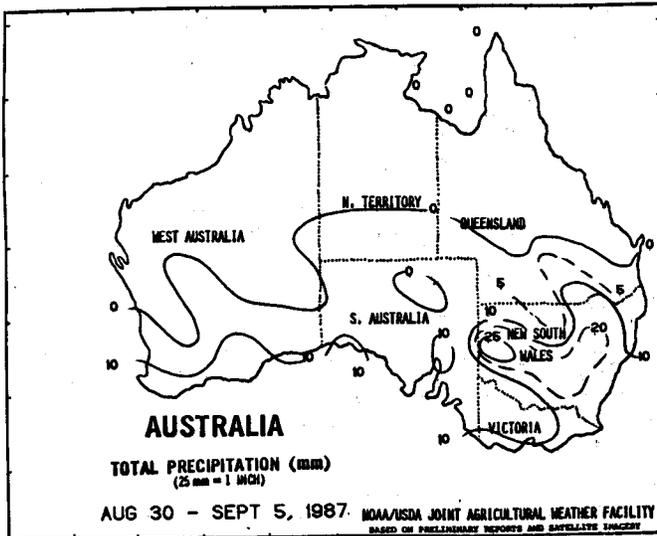
SOUTH-ASIA ... Minimal rain (less than 10mm) covered most crop areas of western Maharashtra, Karnataka, southern Andhra Pradesh, and Tamil Nadu, continuing the drying trend in southern India since early August and stressed reproductive to filling crops. Dry weather returned to Gujarat and Punjab, following recent beneficial showers which improved reservoir levels somewhat. Light to moderate showers (10-50mm) continued in northern India from Haryana to central Uttar Pradesh, with heavy showers (more than 100mm) covering eastern Uttar Pradesh and Bihar. Periodic showers since early August boosted moisture levels in India's northern states for reproductive cotton and rice, but more rain is needed to ensure adequate moisture reserves for wheat planting in October. Moderate to heavy showers (25-100mm or more) continued in central India, but drier weather moved into flooded areas of West Bengal and southern Bangladesh. Heavy showers (more than 100mm) likely flooded crops in the eastern states of Assam and Arunachal Pradesh.



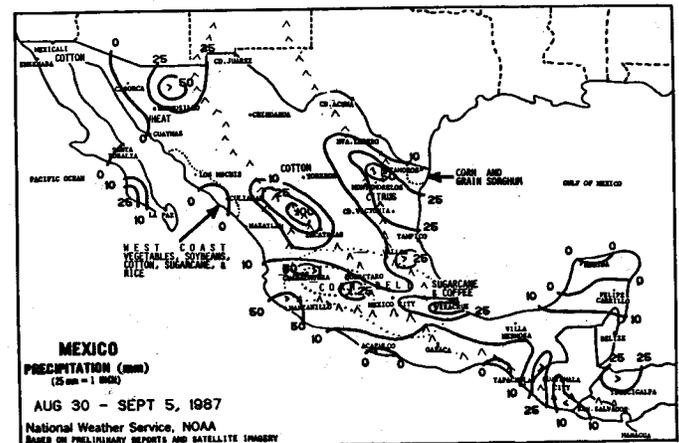
EASTERN ASIA ... The second consecutive week of moderate to heavy rain covered crop areas in Shandong, and conditions are becoming too wet for filling soybeans, opening cotton bolls, and late corn harvesting. Drier weather over Anhui and Jiangsu favored cotton and intermediate rice, which are normally maturing. Continued moderate to locally heavy rain over Hubei was unfavorable for intermediate rice, approaching maturity. Variable tropical showers over southern China benefited late double-cropped rice, entering the filling stage. In the Manchurian Valley, drier weather was welcomed following last week's heavy rainfall. In the Korean peninsula, Typhoon Dinah produced moderate to heavy rain. Continued moderate to heavy rain over South Korea for the past several weeks produced widespread flooding, which has likely caused some damage to maturing crops.



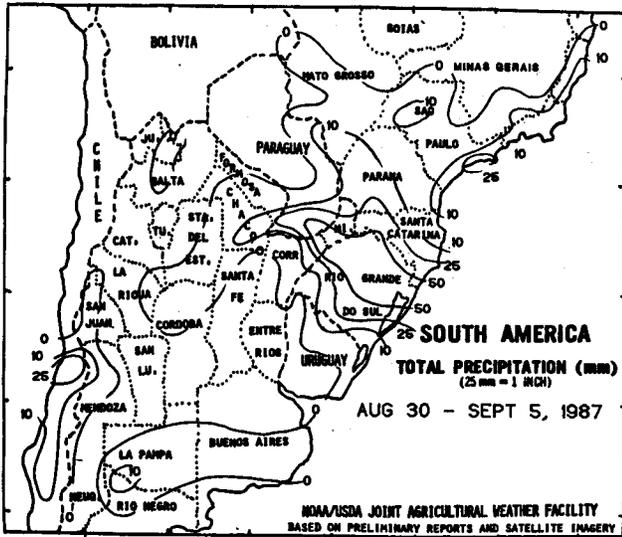
SOUTHEAST ASIA ... Mostly light rain (1-25mm) covered rainfed rice and corn areas from west-central to northern Thailand, favoring corn harvesting and bringing some relief to flooded areas of Thailand's Northern Hills region. Moderate to heavy showers (25-85mm) fell from east-central to eastern Thailand, slowing corn harvesting but boosting moisture levels for vegetative to reproductive rice in parts of the Khorat Plateau. Moderate to heavy showers continued elsewhere in Indochina, but mostly light rain covered the Malay Peninsula. In the Philippines, locally heavy showers (100-200mm or more) in parts of western Luzon and the central islands likely caused some flooding. Light to moderate rain (2-25mm) continued in grain areas of northern Luzon as variable showers (1-126mm) covered Mindanao. Scattered showers covered Indonesia, with driest weather persisting from central Java eastward.



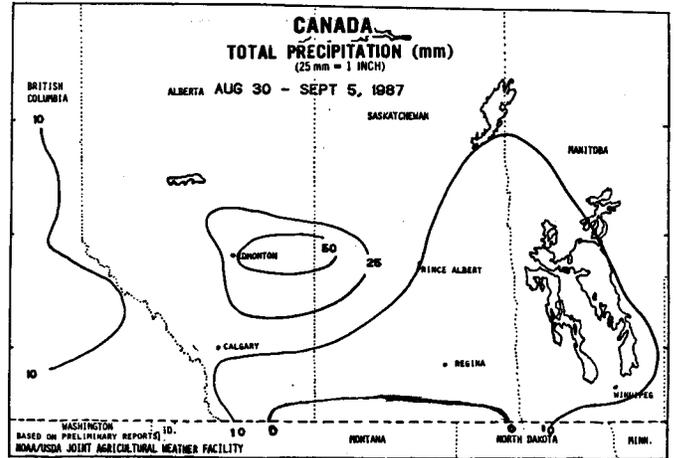
AUSTRALIA ... Moderate to heavy showers (20-40mm) fell over much of New South Wales, benefiting wheat in late jointing to heading stages. Lighter rain (less than 10mm) covered growing areas in southern Queensland, Victoria, southern South Australia, and southern Western Australia early in the week. While the recent rainfall has helped to alleviate stress in most wheat areas, below-normal seasonal rainfall continues at some spots in Western Australia and southern Queensland, and more rain is needed for satisfactory soil moisture recharge. Warm and dry weather favored sugarcane harvest along the eastern coast of Queensland.



MEXICO ... Locally heavy showers fell in the northwestern mountains, with scattered locations reporting 50-173mm of weekly rainfall. The moisture benefited irrigated crops along the west coast and favored early wheat planting in the northwest. Showers (20-57mm) in the northeast slowed grain harvesting. Mostly dry weather in north-central cotton areas favored crop maturation and harvesting. In the Southern Plateau corn belt, scattered light rain (less than 5mm) continued in the north-central portion but widespread heavier showers (10-66mm) covered the remainder of the major growing areas. The rain slowed harvesting but continued to provide adequate moisture for immature crops. Mostly light, scattered rain fell over southern Mexico.



SOUTH AMERICA ... In Argentina, light, scattered showers covered southern wheat areas of Buenos Aires and La Pampa, where wheat planting is nearly complete. Light rain (10mm or less) also fell in Cordoba, northern Santa Fe, and northern cotton and sunflower areas of Formosa and Chaco, where sunflower planting is underway. Mostly dry weather prevailed over wheat areas of southern Santa Fe and northern Buenos Aires, where topsoil moisture has favored early crop development. In south-central Brazil, persistent wetness continued in the south, where 25-83mm of rain kept Rio Grande do Sul's wheat unfavorably wet. Showers also produced 10-40mm in Santa Catarina, but light rain (less than 10mm) covered northern wheat and coffee areas. Parana's wheat is maturing, with some early harvesting likely underway in the north. Scattered showers helped Sao Paulo's citrus, while mostly dry weather prevailed in the coffee areas of Minas Gerais, where trees are blooming.



CANADA ... Locally heavy showers (20-65mm) fell over central and northern crop areas of Alberta, delaying the crop harvest. Light rain (10mm or less) fell in southern Alberta and throughout the crop areas of Saskatchewan and Manitoba, causing little or no interference to fieldwork. Above-average temperatures covered the region early in the week, but cooler air pushed into the Prairies midweek behind the storm system. In Alberta, swathing was estimated at 35 percent, compared with a 53-percent average. Combining was about 10 percent compared with a 23-percent average. Crops may have been hurt in Alberta by the recent wetness. Saskatchewan's harvest progressed rapidly, with about 85 percent of the crops swathed and 45 percent combined, which is similar to the average pace. Manitoba's harvest also progressed rapidly with the harvest nearing completion in the southeast.

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