

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

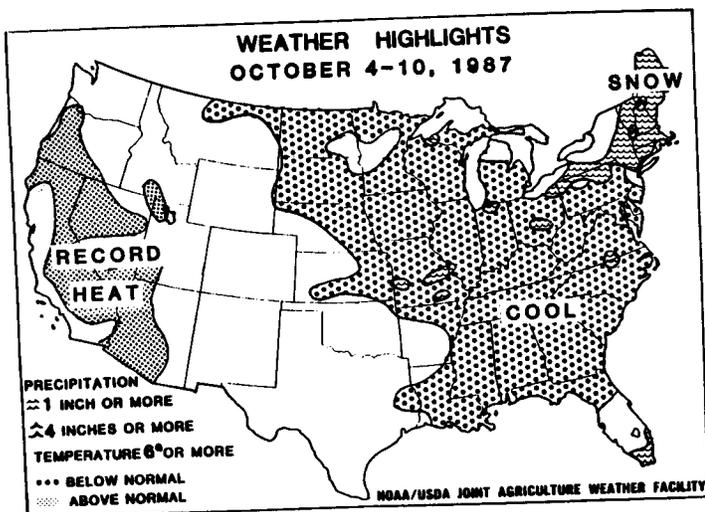
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National Weather Summary

October 4 to 10, 1987



WEDNESDAY...Strong gusty winds brought cooler weather to the central part of the Nation, while showers and thunderstorms moved eastward from the Ohio Valley to the Atlantic seaboard. The fiercest storms were scattered from New Jersey and Delaware to North Carolina. A low pressure system developed over Montana and began moving eastward. Temperatures dropped below the freezing point in North Dakota. Record-low temperatures occurred in the Southeast, while more hot weather occurred in the Southwest.

THURSDAY...Cool conditions prevailed in the eastern two-thirds of the Nation. Lingering showers were widely scattered in the Northeast. Some cooling took place in the Southwest, and snow fell over Montana, Wyoming, and the Dakotas.

FRIDAY...Cold air continued to pour into the northern Great Plains, and snow spread from Wyoming and South Dakota into Nebraska. Parts of the mid-Atlantic States had their first frost of the autumn.

HIGHLIGHTS: It was a week of strong contrasts. Coastal California sweltered under the worst heat wave on record, while the eastern two-thirds of the Nation experienced cooler weather than normal. Snow fell in New York and New England early in the week, and showers and thunderstorms swept through most of the northeastern part of the Nation Tuesday and Wednesday. An early season snowstorm moved across the northern Great Plains late in the week.

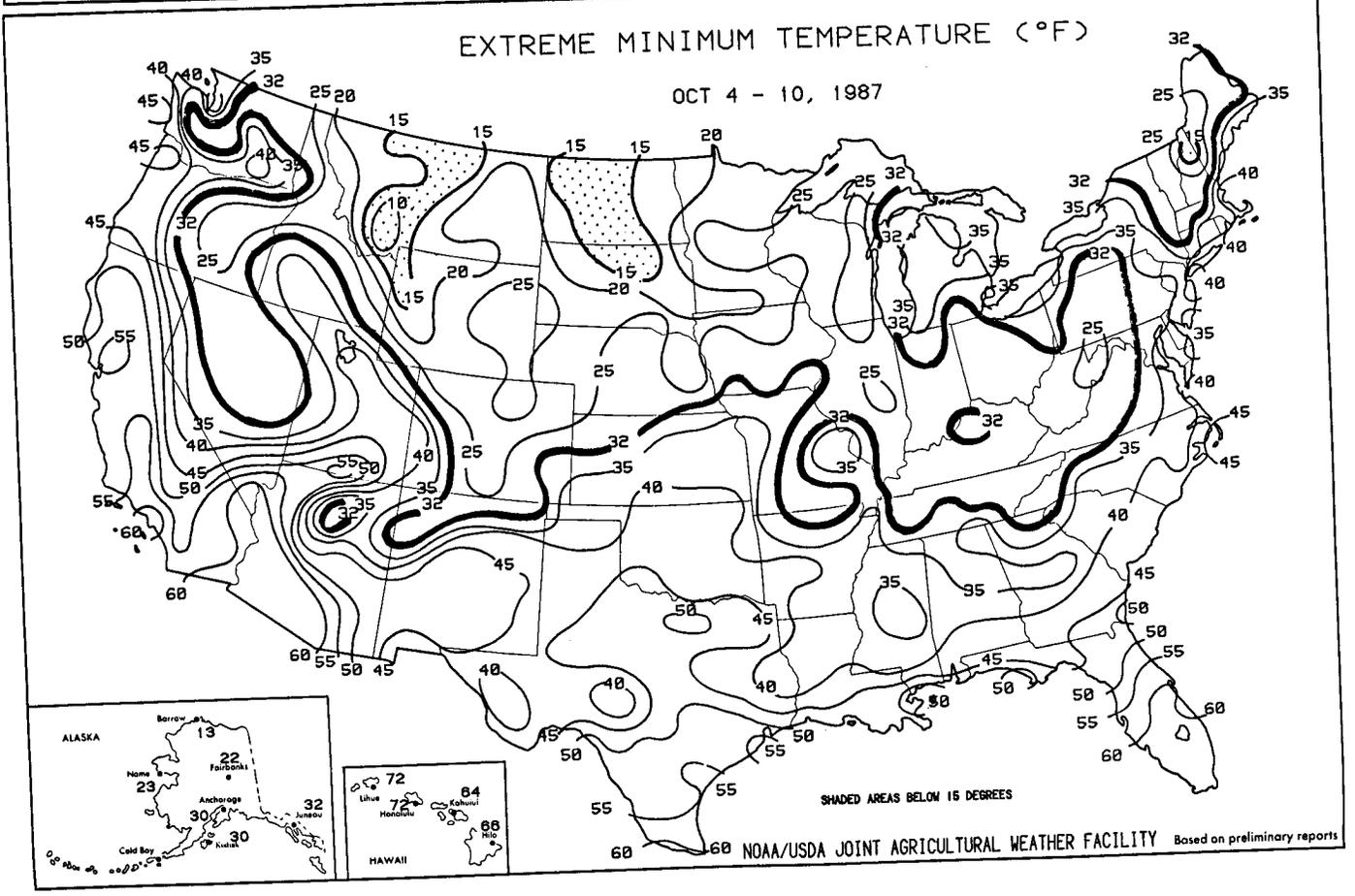
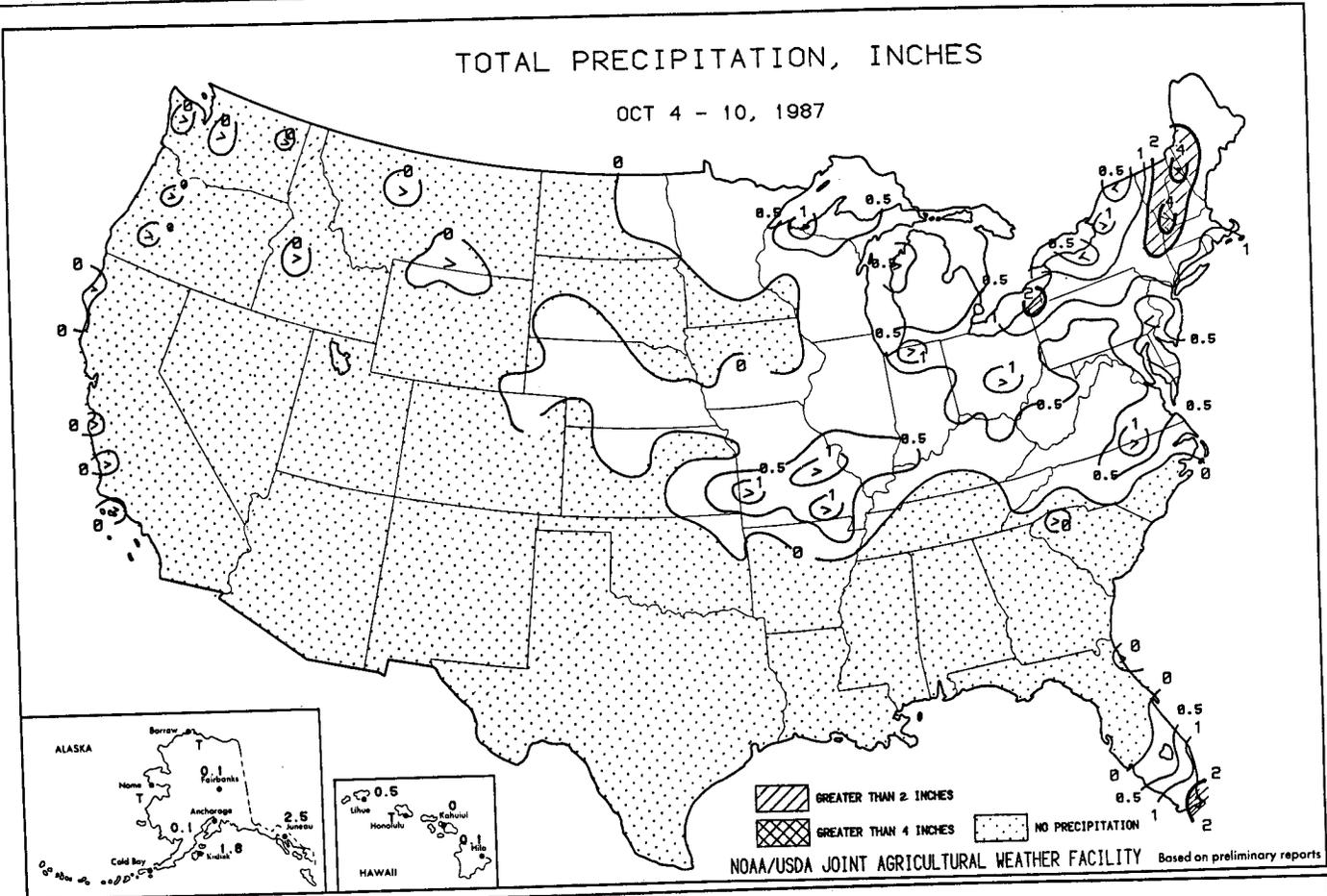
SUNDAY...Heavy wet snow fell in New York and New England as cold air spread across the East. High pressure centered over Missouri brought warm weather to the West. Another surge of cold air began moving southward into the northern Great Plains.

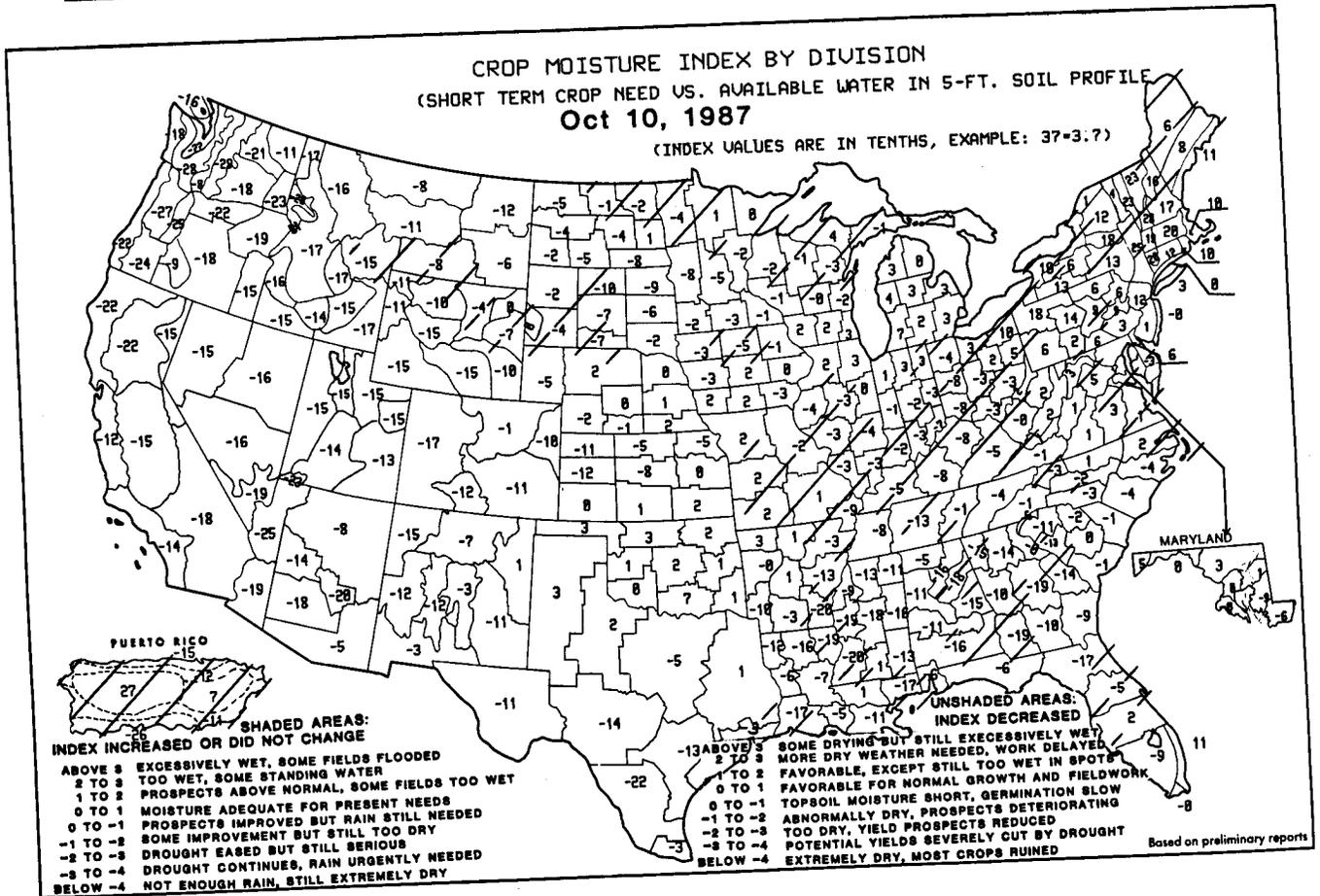
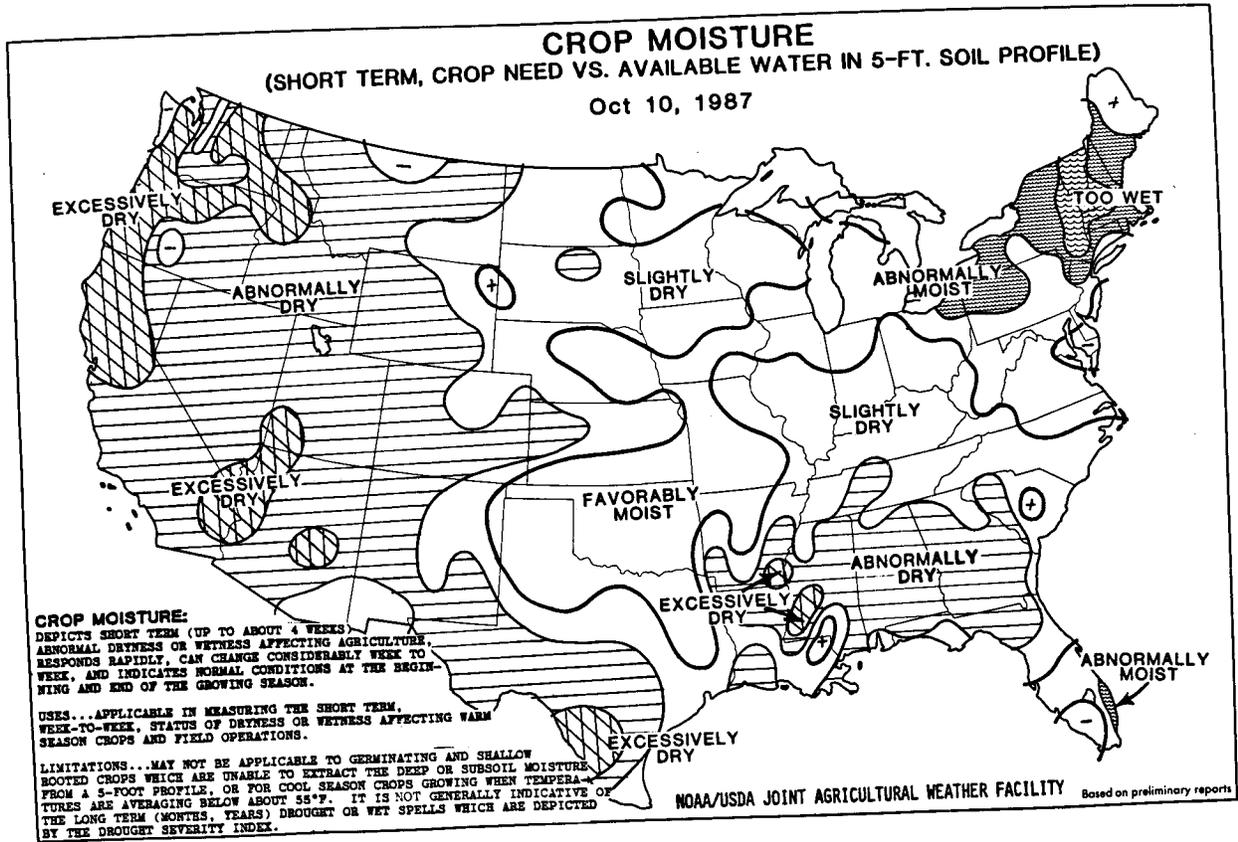
MONDAY...Temperatures dipped into the twenties and thirties in the northern and central Rockies overnight, and record-low temperatures were in the Southeast. All-time records for high temperatures were shattered in California (see page 5). The only rainfall in the Nation was in the Midwest, along a cold front extending from the Great Lakes southwestward into Texas.

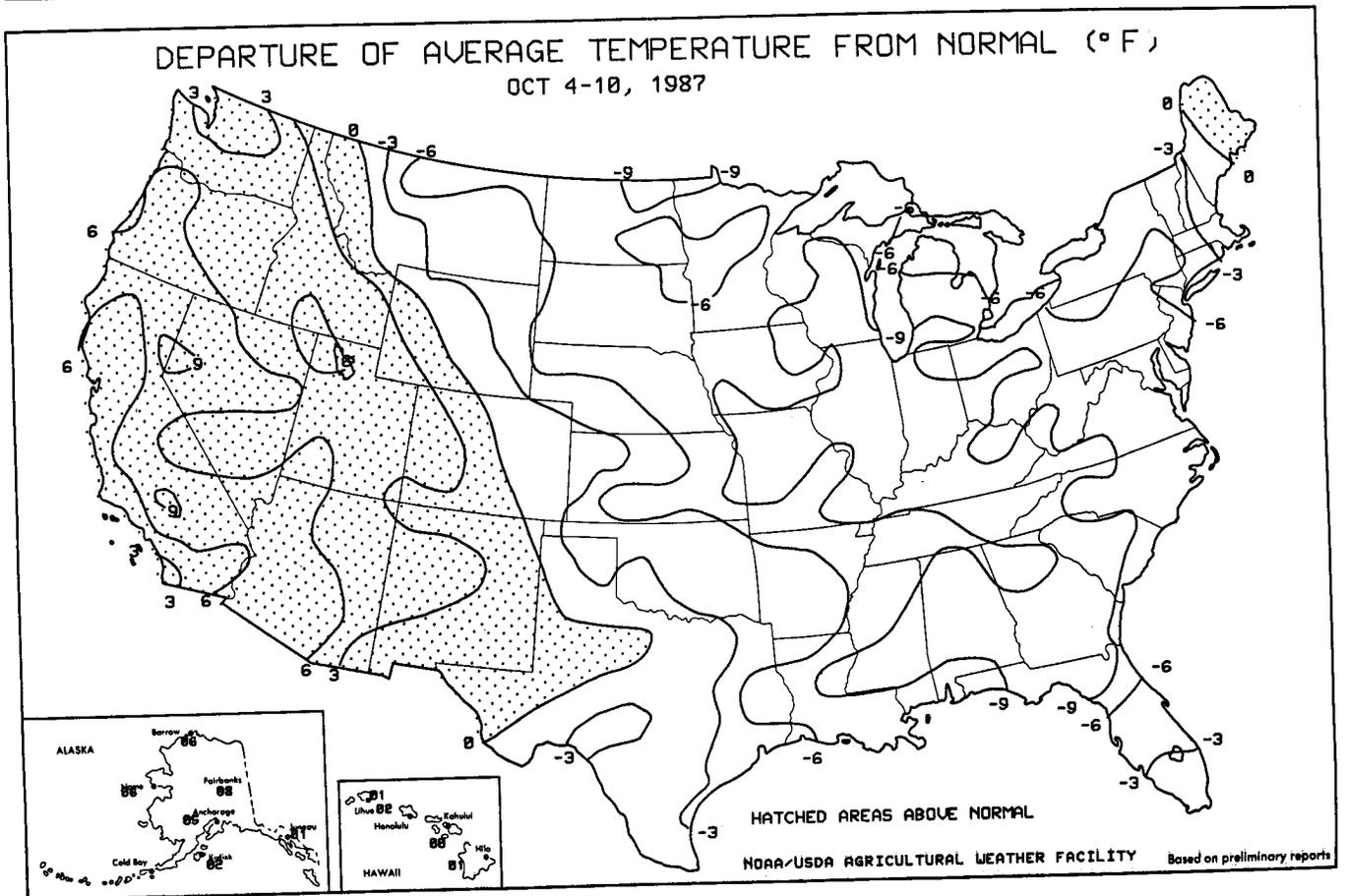
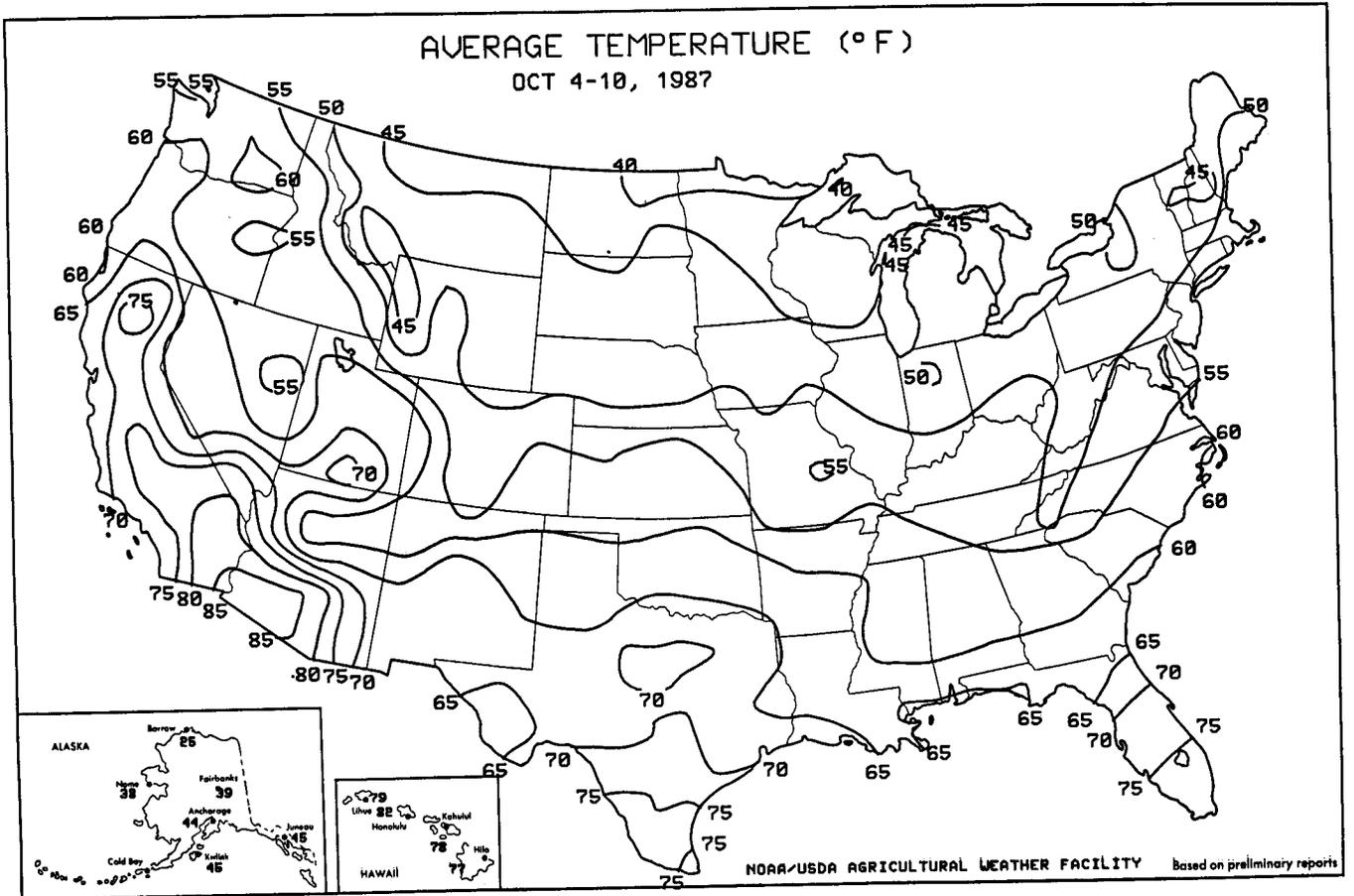
TUESDAY...The cold front associated with the low pressure system over the Great Lakes slowed considerably and strengthened, causing showers and thunderstorms to break out first over the Ohio Valley, then along a squall line extending from Ontario to North Carolina. Golf-ball size hail fell at Raleigh.

SATURDAY...Showers and thunderstorms were scattered along a cold front that extended from New York southwestward to Texas. Rainshowers and thunderstorms also were scattered across Florida. Snow continued to spread across Nebraska, and Kansas experienced its first snowfall of the season. Skies were clear from the Carolinas across Alabama to Texas and the desert Southwest. Clear skies also extended from North Dakota to the Pacific Northwest.

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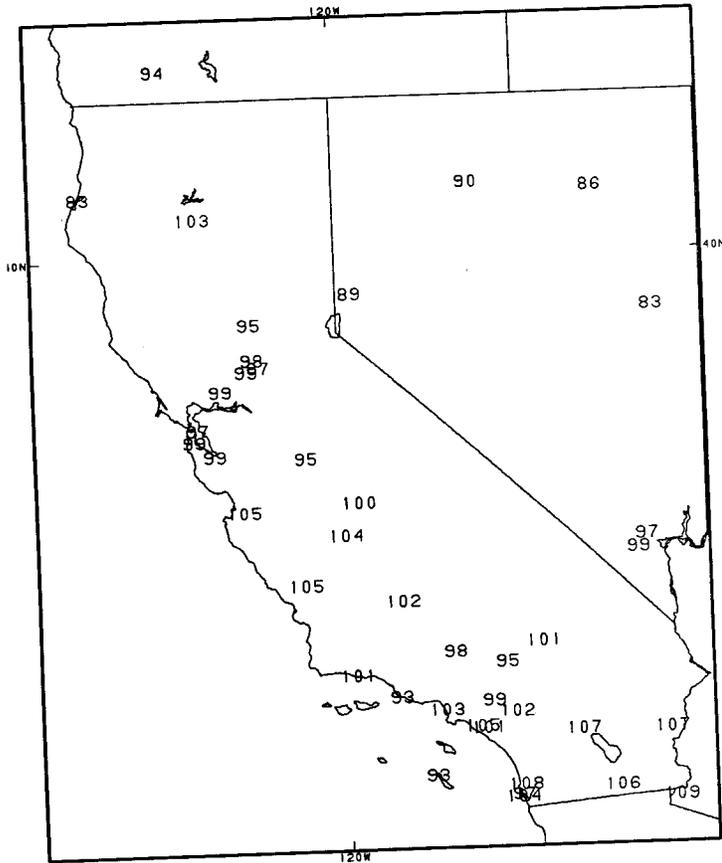






RECORD HEAT WAVE IN CALIFORNIA

EXTREME MAXIMUM TEMPERATURE (F), OCTOBER 1-7, 1987



October 5, 1987, was the hottest day on record at many places along the California coast. Downtown San Francisco reported 102 degrees Fahrenheit (not shown on accompanying map), the highest temperature in 113 years of recordkeeping. Monterey reported 105 degrees Fahrenheit, also setting a new record.

LEVELS OF GREAT LAKES WELL BELOW 1986 RECORDS

Water levels of the Great Lakes are expected for the next 6 months to remain well below their record highs of 1986, according to Canada Centre for Inland Waters of Environmental Canada.

Forecasters predict levels of Lake Huron, St. Clair, and Erie will continue their seasonal declines and, by January, will probably reach points at 20, 10, and 30 cm, respectively, above their long-term averages. These levels will be between 50 and 60 cm below their levels of the same period last year.

"This is good news," said Ralph Moulton, Manager of Environment Canada's Great Lakes Water Level Communications Centre. "The persistently dry weather has caused lake levels to decline, but shoreline residents and property owners should be aware that even with these

lower levels, there is still potential for serious damage during the fall and winter storm seasons."

Lake Superior is forecast to remain near long-term average levels, and Lake Ontario is expected to remain 10 cm below average. Extremely high outflows through Lake Ontario's control structure at Cornwall have combined with reduced water supplies to bring that lake's level down sharply since April. Earlier this month, the outflow was reduced to slow the water level decline.

Even under very wet conditions for the next 6 months, water levels would not exceed those recorded during the same period last year. Continuing dry weather, would increase the seasonal decline on all the lakes, which usually begins in July and August.

National Weather Data for Selected Cities

Weather Data for the Week Ending October 10, 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	TEMPERATURE		PRECIPITATION				
														AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE	
AL BIRMINGHAM	74	39	82	34	57	-10	0	-6	0	3.7	70	33.4	76	86	23	0	0	0	0	
MOBILE	78	47	82	44	62	-10	0	-7	0	3.6	47	58.1	108	85	29	0	0	0	0	
MONTGOMERY	77	40	83	37	59	-10	0	-6	0	4.0	71	45.8	115	92	23	0	0	0	0	
AK ANCHORAGE	50	38	53	30	44	5	.1	-3	-1	3.0	96	10.2	88	90	58	0	1	2	0	
BARROW	30	20	32	13	25	6	T	-1	T	1.4	179	4.7	126	99	89	0	7	2	0	
FAIRBANKS	49	30	57	22	39	8	.1	-1	.1	.6	44	5.0	59	85	45	0	5	1	0	
JUNEAU	49	41	50	32	45	1	2.5	.7	1.1	13.4	150	40.9	108	96	72	0	1	4	3	
KODIAK	52	37	56	30	45	2	1.8	.2	1.1	9.3	109	57.1	128	97	70	0	1	5	1	
NOME	44	31	46	23	38	5	T	-3	T	2.6	92	8.5	69	86	57	0	4	1	0	
AZ PHOENIX	102	72	104	71	87	10	0	-1	0	.6	69	5.3	102	34	15	7	0	0	0	
PRESCOTT	84	47	89	45	65	7	0	-3	0	1.2	61	10.5	70	48	13	0	0	0	0	
TUCSON	97	63	101	62	80	7	0	-2	0	2.3	141	10.5	117	42	11	7	0	0	0	
YUMA	103	73	109	71	88	8	0	-1	0	T	13	1.2	66	39	14	7	0	0	0	
AR FORT SMITH	79	44	87	36	61	-5	0	-7	0	1.7	41	27.7	89	92	31	0	0	0	0	
LITTLE ROCK	74	49	82	42	62	-5	0	-6	0	5.0	97	29.3	76	57	33	0	0	0	0	
CA BAKERSFIELD	93	61	101	55	77	6	T	-1	T	T	5	4.1	100	60	24	4	0	0	0	
EUREKA	69	55	83	51	62	6	T	-4	T	.1	5	18.0	75	90	66	0	0	1	0	
FRESNO	91	59	99	55	75	7	0	-1	0	T	0	6.7	92	77	27	4	0	0	0	
LOS ANGELES	79	65	103	61	72	4	0	0	0	.1	67	3.1	37	88	56	1	0	0	0	
REDDING	93	57	103	53	75	5	0	-3	0	0	0	19.3	72	61	20	5	0	0	0	
SACRAMENTO	88	56	98	51	72	5	0	-1	0	0	0	8.8	79	87	29	3	0	0	0	
SAN DIEGO	77	64	97	59	70	2	0	0	0	.7	292	5.8	90	90	69	1	0	0	0	
SAN FRANCISCO	79	58	99	54	69	6	0	-2	0	T	0	8.5	67	83	41	2	0	0	0	
CO DENVER	68	39	83	27	54	-2	T	-2	T	.7	45	15.9	121	65	25	0	1	0	0	
GRAND JUNCTION	81	47	82	44	64	5	0	-2	0	.1	13	8.1	133	35	12	0	0	0	0	
PUEBLO	73	38	88	29	56	-2	T	-2	T	.3	29	9.4	99	64	21	0	1	0	0	
CT BRIDGEPORT	62	44	70	34	53	-6	.6	-1	4	3.4	78	26.5	84	87	52	0	0	2	2	
HARTFORD	63	40	72	35	51	-4	1.9	1.1	1.3	9.2	183	38.0	113	92	48	0	0	2	2	
DC WASHINGTON	65	45	71	40	55	-8	.4	-3	.4	6.0	144	27.9	90	89	44	0	0	1	0	
FL APALACHICOLA	77	52	80	49	64	-9	0	-1.0	0	5.2	52	41.4	88	88	38	0	0	0	0	
DAYTONA BEACH	80	62	83	56	71	-4	T	-1.2	T	5.6	66	36.7	90	79	45	0	0	0	0	
JACKSONVILLE	78	50	83	44	64	-9	T	-1.0	T	7.2	90	38.0	84	94	41	0	0	0	0	
KEY WEST	82	73	86	70	78	-3	1.6	.4	1.6	11.1	138	36.2	116	85	57	0	0	2	1	
MIAMI	85	71	88	67	78	-1	.5	-1.3	.3	11.4	107	38.0	78	87	50	0	0	0	0	
ORLANDO	82	62	84	59	72	-5	0	-9	0	8.6	113	42.5	97	85	42	0	0	0	0	
TALLAHASSEE	78	44	81	38	61	-11	0	-8	0	4.0	52	60.4	110	92	31	0	0	0	0	
TAMPA	83	60	85	57	72	-5	0	-7	0	4.8	66	42.8	104	82	41	0	0	0	0	
WEST PALM BEACH	85	68	88	62	76	-3	1.1	-9	.6	13.2	108	44.4	90	89	51	0	0	2	2	
GA ATLANTA	72	46	77	39	59	-7	0	-6	0	3.0	76	39.1	100	73	27	0	0	0	0	
AUGUSTA	75	40	80	35	57	-9	0	-5	0	2.0	48	35.6	98	93	27	0	0	0	0	
MACON	75	40	80	35	58	-11	0	-5	0	1.5	37	32.9	89	92	25	0	0	0	0	
SAVANNAH	75	48	81	43	61	-9	0	-6	0	8.2	133	52.8	120	88	35	0	0	0	0	
HI HILO	87	68	88	66	77	2	T	-1.9	.1	19.9	216	98.0	106	88	53	0	0	1	0	
HONOLULU	90	74	92	72	82	3	T	-3	T	.6	54	4.2	27	83	47	6	0	1	0	
KAHULUI	89	67	91	64	78	0	0	-1	0	14.4	35	4.2	27	83	47	2	0	0	0	
LIHUE	84	75	84	72	79	2	.5	-4	.4	5.1	148	20.5	69	91	71	0	0	2	0	
ID BOISE	77	42	81	36	59	4	0	-1	0	0	0	6.5	78	50	15	0	0	0	0	
LEWISTON	75	46	81	35	61	5	0	-2	0	T	1	8.0	82	52	21	0	0	0	0	
POCATELLO	74	37	78	27	55	4	0	-2	0	0	0	8.4	102	55	15	0	3	0	0	
IL CHICAGO	58	38	69	27	48	-9	T	-5	T	1.0	20	33.3	117	85	40	0	2	3	0	
MOLINE	59	38	72	27	49	-9	T	-6	T	1.2	24	29.2	93	80	37	0	3	2	0	
PEORIA	59	37	71	27	48	-10	T	-6	T	1.7	36	19.7	67	87	37	0	2	3	0	
QUINCY	62	39	73	30	50	-9	T	-8	T	1.7	32	22.1	70	78	29	0	1	1	0	
ROCKFORD	55	36	69	24	46	-10	.1	-6	.1	2.5	53	33.5	110	88	47	0	2	1	0	
SPRINGFIELD	62	39	70	30	50	-10	T	-6	T	1.0	25	19.9	70	77	32	0	1	1	0	
IN EVANSVILLE	66	38	84	28	52	-9	.7	-2	.7	2.7	78	24.9	75	94	38	0	3	2	1	
FORT WAYNE	58	39	69	31	49	-8	.5	-1	.2	1.9	58	25.8	93	96	53	0	1	5	0	
INDIANAPOLIS	60	38	70	28	49	-9	.4	-2	.3	1.8	51	25.1	81	93	42	0	2	4	0	
SOUTH BEND	56	41	64	35	49	-8	1.3	.6	.5	5.5	128	27.0	90	92	49	0	0	4	1	
IA DES MOINES	60	39	78	28	50	-8	0	-5	T	1.4	37	30.1	113	77	33	0	1	2	0	
SIoux CITY	62	36	83	27	49	-8	0	-5	0	1.4	46	22.9	101	71	29	0	2	0	0	
WATERLOO	58	34	75	24	46	-8	0	-6	0	1.8	43	27.0	94	76	34	0	3	0	0	
KS CONCORDIA	67	42	88	34	55	-6	0	-5	0	1.6	42	30.8	127	62	29	0	0	0	0	
DODGE CITY	70	41	87	37	55	-6	T	-3	T	1.5	66	22.0	120	61	24	0	0	0	0	
GOODLAND	69	39	89	28	54	-3	0	-2	0	1.5	87	18.3	125	59	23	0	1	0	0	
TOPEKA	67	42	80	35	54	-7	T	-7	T	1.8	41	31.4	110	74	29	0	0	0	0	
WICHITA	69	45	78	39	57	-6	.3	-3	.3	2.4	55	34.2	139	74	30	0	0	1	0	
KY BOWLING GREEN	67	37	78	30	52	-10	0	-6	0	3.5	86	32.7	84	94	35	0	1	3	0	
LEXINGTON	65	41	73	32	53	-8	.1	-4	0	1.0	24	27.3	74	88	31	0	0	0	0	
LOUISVILLE	64	41	73	33	52	-9	.2	-4	.2	1.3	31	25.1	73	84	36	0	0	1	0	
LA ALEXANDRIA	79	44	80	39	61	-7	0	-6	0	1.5	38	39.9	97	90	27	0	0	0	0	
BATON ROUGE	79	48	83	45	64	-7	0	-6	0	.8	15	52.8	117	87	28	0	0	0	0	
LAKE CHARLES	82	51	84	45	66	-6	0	-9	0	3.8	54	48.0	113	92	29	0	0	0	0	
NEW ORLEANS	78	51	83	46	64	-8	0	-7	0	1.3	19	54.0	111	94	33	0	0	0	0	

Based on 1951-80 normals.

Oct. 14, 1987

Weather Data for the Week Ending October 10, 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	
SHREVEPORT	83	47	88	41	65	-5	0	-6	0	.9	23	29.7	87	83	23	0	0	0	0	
ME CARIBOU	57	41	69	34	49	2	1.4	1.1	5.4	119	22.7	81	93	55	0	0	0	0	0	
PORTLAND	61	39	64	32	50	-2	.3	-.6	6.0	138	33.8	108	93	54	0	0	0	0	0	
MD BALTIMORE	64	40	71	33	52	-8	.3	-.5	8.1	181	32.4	98	94	44	0	0	0	0	0	
SALTSBURY	66	41	74	33	54	-7	.3	-.2	5.1	99	30.3	84	96	36	0	0	0	0	0	
MA BOSTON	66	48	72	42	57	0	1.6	1.6	9.0	204	39.0	119	88	48	0	0	0	0	0	
CHATHAM	61	47	63	42	54	-2	1.1	1.0	9.7	199	41.8	120	90	68	0	0	0	0	0	
MI ALPENA	54	38	67	34	46	-5	.3	-.2	4.0	105	19.0	81	92	55	0	0	0	0	0	
DETROIT	58	39	72	34	48	-7	.5	0	3.2	110	29.0	119	87	47	0	0	0	0	0	
FLINT	55	38	68	35	47	-7	.1	-.4	5.7	191	21.7	93	95	59	0	0	0	0	0	
GRAND RAPIDS	54	39	62	34	46	-9	.1	-.5	4.9	119	25.4	97	91	56	0	0	0	0	0	
HOUGHTON LAKE	51	40	62	36	45	-5	.2	-.4	5.0	142	19.3	87	81	58	0	0	0	0	0	
LANSING	55	37	67	32	46	-8	.1	-.4	5.0	139	22.5	95	89	54	0	0	0	0	0	
MARQUETTE	48	32	71	20	40	-11	.9	.3	5.2	112	27.0	110	89	59	0	0	0	0	0	
MUSKOGON	53	41	62	34	47	-7	.3	-.3	5.2	136	25.3	106	78	57	0	0	0	0	0	
SAULT ST. MARIE	51	35	65	32	43	-5	.3	-.3	4.0	81	21.5	84	92	55	0	0	0	0	0	
MN ALEXANDRIA	58	35	80	29	47	-4	.1	-.4	2.5	84	14.9	69	84	38	0	0	0	0	0	
DULUTH	50	34	74	24	42	-6	.1	-.5	3.5	87	17.4	69	78	45	0	0	0	0	0	
INT'L FALLS	49	33	77	25	41	-6	.2	-.2	1.6	42	18.1	86	83	50	0	0	0	0	0	
MINNEAPOLIS	56	36	79	25	46	-7	.1	-.4	1.3	41	28.3	124	75	38	0	0	0	0	0	
ROCHESTER	53	33	74	22	43	-9	.0	0	2.1	49	22.1	90	80	41	0	0	0	0	0	
MS GREENWOOD	77	42	85	35	60	-8	.0	0	1.0	24	31.6	77	84	21	0	0	0	0	0	
JACKSON	78	40	83	35	59	-9	.0	0	1.5	35	39.3	96	91	20	0	0	0	0	0	
MÉRIDIAN	76	39	82	34	57	-10	.0	0	4.4	99	46.7	110	98	24	0	0	0	0	0	
MO CAPE GIRARDEAU	68	41	80	32	55	-11	.5	-.1	3.8	84	29.3	82	88	29	0	0	0	0	0	
COLUMBIA	63	40	73	31	52	-10	.5	-.4	3.4	67	23.5	77	84	33	0	0	0	0	0	
KANSAS CITY	63	42	76	37	53	-10	.5	-.8	3.7	67	28.7	93	73	29	0	0	0	0	0	
SAINT LOUIS	64	44	71	36	54	-8	.9	.3	2.5	72	26.0	94	75	33	0	0	0	0	0	
SPRINGFIELD	67	39	74	32	53	-9	.8	0	4.8	90	36.5	114	86	34	0	0	0	0	0	
MT BILLINGS	63	35	78	21	49	-4	.7	-.3	1.7	60	9.2	93	71	31	0	0	0	0	0	
GLASGOW	57	33	66	20	45	-6	.7	-.1	1.4	105	13.5	104	77	29	0	0	0	0	0	
GREAT FALLS	59	31	77	20	45	-6	.7	-.2	.7	62	7.8	75	72	29	0	0	0	0	0	
HAVRE	58	27	73	11	42	-8	.8	-.2	.8	75	9.5	96	78	26	0	0	0	0	0	
HELENA	65	33	77	15	49	0	.0	0	.6	43	13.4	109	88	26	0	0	0	0	0	
KALISPELL	63	30	70	16	47	1	.0	0	.8	59	11.9	97	67	25	0	0	0	0	0	
MILES CITY	61	35	75	23	48	-5	.0	0	.1	7	8.8	84	75	23	0	0	0	0	0	
MISSOULA	67	34	77	21	51	-3	.1	-.2	1.3	43	23.1	110	74	32	0	0	0	0	0	
NE GRAND ISLAND	63	36	88	27	50	-8	.1	-.2	3.2	90	29.0	119	76	34	0	0	0	0	0	
LINCOLN	63	38	81	24	51	-7	.1	-.4	3.2	124	25.4	118	72	30	0	0	0	0	0	
NORFOLK	63	36	88	21	49	-7	.1	-.2	1.2	62	16.7	94	79	26	0	0	0	0	0	
NORTH PLATTE	66	32	91	26	49	-6	.1	-.2	1.6	38	29.2	109	66	40	0	0	0	0	0	
OMAHA	61	40	78	31	50	-8	.1	-.5	1.5	115	21.7	166	74	26	0	0	0	0	0	
SCOTTSBLUFF	65	32	83	24	48	-6	.1	-.2	.4	21	18.3	116	69	27	0	0	0	0	0	
VALENTINE	63	31	83	25	47	-6	.0	0	.1	5	8.7	121	58	15	0	0	0	0	0	
NV ELY	79	31	83	30	55	6	.0	0	.0	0	3.4	111	24	9	0	0	0	0	0	
LAS VEGAS	95	62	98	60	78	7	.0	0	.0	3	6.1	117	65	13	0	0	0	0	0	
RENO	84	41	89	39	63	9	.0	0	.0	0	6.9	122	41	14	0	0	0	0	0	
WINNEMUCCA	83	36	85	30	59	7	.0	0	.0	0	0	112	96	51	0	0	0	0	0	
NH CONCORD	61	35	71	27	48	-3	1.8	1.1	6.0	146	30.6	111	93	44	0	0	0	0	0	
NJ ATLANTIC CITY	64	40	72	35	52	-7	.5	-.2	4.8	127	35.7	111	40	13	0	0	0	0	0	
NM ALBUQUERQUE	83	51	85	46	67	5	.0	0	.2	18	7.1	110	63	23	0	0	0	0	0	
CLOVIS	78	49	88	45	64	2	.0	0	3.4	132	22.1	149	63	24	0	0	0	0	0	
ROSWELL	83	49	93	45	66	3	.0	0	.8	36	13.9	151	67	24	0	0	0	0	0	
NY ALBANY	59	35	68	30	47	-7	1.5	-.9	9.4	227	31.4	114	96	52	0	0	0	0	0	
BINGHAMTON	56	36	67	33	46	-6	.5	-.2	5.2	122	28.7	100	94	51	0	0	0	0	0	
BUFFALO	56	42	69	33	49	-6	.9	-.2	6.5	152	33.5	118	87	48	0	0	0	0	0	
NEW YORK	63	48	70	41	56	-5	1.1	-.4	6.1	135	37.7	114	87	49	0	0	0	0	0	
ROCHESTER	56	41	70	35	49	-6	.4	-.1	5.4	154	27.8	114	92	52	0	0	0	0	0	
SYRACUSE	59	42	71	35	51	-4	.9	-.2	7.0	164	26.6	88	89	49	0	0	0	0	0	
NC ASHEVILLE	65	35	74	29	50	-9	.0	0	6.8	140	37.5	106	95	35	0	0	0	0	0	
CHARLOTTE	68	43	76	39	56	-8	.0	0	6.9	153	31.1	89	84	34	0	0	0	0	0	
GREENSBORO	67	39	75	33	53	-9	.1	-.6	7.4	156	40.2	117	92	35	0	0	0	0	0	
HATTERAS	70	52	77	46	61	-7	.1	-.6	7.9	107	52.8	122	90	48	0	0	0	0	0	
NEW BERN	73	45	79	40	59	-7	.1	-.1	2.4	34	44.0	99	93	37	0	0	0	0	0	
RALEIGH	69	41	75	35	55	-8	.6	0	6.1	146	36.6	108	96	35	0	0	0	0	0	
WILMINGTON	73	45	79	41	59	-8	.0	0	6.4	94	43.7	97	95	38	0	0	0	0	0	
ND BISMARCK	57	29	76	14	43	-7	.0	0	.3	17	16.9	124	83	31	0	0	0	0	0	
FARGO	55	33	79	24	44	-7	.1	-.3	1.7	74	13.7	80	78	37	0	0	0	0	0	
GRAND FORKS	56	30	74	16	43	-6	.1	-.2	1.8	73	17.8	110	86	43	0	0	0	0	0	
WILLISTON	56	29	71	14	42	-8	.1	-.2	.7	40	11.3	94	75	31	0	0	0	0	0	
OH AKRON-CANTON	56	38	66	33	47	-9	.9	.4	8.9	25.0	86	90	50	0	0	0	0	0	0	
CINCINNATI	61	40	71	29	50	-9	.9	.4	2.1	56	26.8	83	90	42	0	0	0	0	0	
CLEVELAND	57	39	69	35	49	-8	1.2	.6	4.2	112	32.7	117	93	53	0	0	0	0	0	
COLUMBUS	62	39	71	29	50	-7	1.0	.6	.4	76	21.7	72	91	39	0	0	0	0	0	

Based on 1951-80 normals.

Weather Data for the Week Ending October 10, 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	.01 INCH OR MORE	.50 INCH OR MORE
DAYTON	60	39	71	30	49	-9	.7	.3	.5	1.0	33	19.4	69	88	43	0	1	5	1
TOLEDO	58	38	72	30	48	-8	.7	.2	.3	3.0	95	22.9	91	90	52	0	2	5	0
YOUNGSTOWN	55	39	67	33	47	-8	1.4	.8	.7	5.4	137	33.2	111	93	58	0	0	4	1
OK OKLAHOMA CITY	74	49	82	44	62	-4	T	T	T	4.6	103	37.1	140	70	32	0	0	0	0
TULSA	73	49	78	45	61	-5	T	T	T	3.5	63	33.8	105	71	32	0	0	0	0
OR ASTORIA	73	47	85	41	60	6	0	0	0	1.0	20	33.6	78	91	45	0	0	0	0
BURNS	77	34	80	25	55	4	0	0	0	T	3	7.1	91	**	**	0	3	0	0
MEDFORD	87	46	94	43	67	9	0	0	0	T	4	5.7	69	55	22	0	0	0	0
PENDLETON	74	45	84	37	60	4	0	0	0	T	2	0	78	80	18	2	0	0	0
PORTLAND	79	49	88	45	64	7	0	0	0	.3	13	19.8	85	88	30	0	0	0	0
SALEM	81	45	88	43	63	7	0	0	0	.1	6	22.0	88	87	27	0	0	0	0
PA ALLENTOWN	62	39	71	34	51	-6	.3	.4	.2	10.0	199	39.3	113	93	45	0	0	4	0
ERIE	56	42	69	37	49	-6	3.0	2.2	1.8	8.6	168	36.6	120	84	49	0	0	5	2
HARRISBURG	63	39	69	32	51	-7	.4	.2	.4	8.9	198	30.5	99	88	42	0	1	1	0
PHILADELPHIA	65	43	74	38	54	-6	.2	.4	.2	4.0	91	28.3	87	88	44	0	2	3	0
PITTSBURGH	57	39	67	31	48	-8	.3	.3	.1	4.5	127	34.3	115	95	49	0	2	3	0
SCRANTON	60	39	70	36	49	-6	.6	.1	.5	8.9	216	34.3	125	93	44	0	0	2	1
RI PROVIDENCE	63	43	69	37	53	-3	.8	0	.8	8.5	181	33.8	100	93	51	0	0	2	1
SC CHARLESTON	73	49	80	44	61	-8	0	0	0	14.5	240	50.3	113	90	37	0	0	0	0
COLUMBIA	73	39	78	33	56	-11	0	0	0	5.3	102	47.2	114	97	32	0	0	0	0
FLORENCE	72	44	78	40	58	-9	0	0	0	4.2	84	31.6	85	92	35	0	0	0	0
GREENVILLE	71	38	77	33	55	-10	T	T	T	3.2	55	36.9	89	89	31	0	0	1	0
SD ABERDEEN	58	32	81	11	45	-7	0	0	0	1.3	72	11.2	70	74	32	0	3	0	0
HURON	61	31	86	15	46	-8	0	0	0	1.4	74	17.0	104	77	28	0	4	0	0
RAPID CITY	61	35	78	25	48	-6	.1	.1	.1	.8	58	11.6	79	64	29	0	3	1	0
SIoux FALLS	61	31	88	18	46	-7	0	0	0	2.1	60	15.2	71	79	30	0	3	0	0
TN CHATTANOOGA	71	39	78	35	55	-9	0	0	0	4.1	77	39.9	96	93	27	0	2	0	0
KNOXVILLE	69	36	77	30	53	-11	T	T	T	2.0	52	29.4	80	95	29	0	0	0	0
MEMPHIS	74	46	83	40	60	-6	0	0	0	1.0	23	28.4	70	72	24	0	0	0	0
NASHVILLE	70	40	81	32	55	-9	0	0	0	2.0	43	21.0	55	91	29	0	1	0	0
TX ABILENE	85	54	90	47	70	0	0	0	0	2.1	54	21.2	108	65	24	1	0	0	0
AMARILLO	75	46	90	40	60	-2	0	0	0	3.4	154	18.7	110	68	28	1	0	0	0
AUSTIN	85	56	88	51	71	-2	0	0	0	5.0	106	32.0	129	78	27	0	0	0	0
BEAUMONT	81	53	83	48	67	-6	0	0	0	11.4	172	51.9	119	97	36	0	0	0	0
BROWNSVILLE	85	62	87	60	74	-4	0	0	0	4.7	71	20.1	98	96	44	0	0	0	0
CORPUS CHRISTI	86	59	88	54	72	-4	0	0	0	1.0	13	26.6	99	89	35	0	0	0	0
DEL RIO	84	58	88	52	71	-3	0	0	0	.1	4	20.3	141	63	28	0	0	0	0
EL PASO	88	51	91	45	70	2	0	0	0	.9	53	7.6	116	56	15	2	0	0	0
FORT WORTH	85	53	94	45	69	-2	0	0	0	1.4	31	20.1	79	72	26	1	0	0	0
GALVESTON	79	65	82	59	72	-4	0	0	0	4.5	62	30.5	94	75	42	0	0	0	0
HOUSTON	83	52	86	47	68	-6	0	0	0	3.5	53	32.6	89	94	33	0	0	0	0
LUBBOCK	81	49	92	44	65	0	0	0	0	2.7	99	17.0	110	76	27	1	0	0	0
MIDLAND	87	50	94	45	69	1	0	0	0	1.4	52	13.3	115	72	21	2	0	0	0
SAN ANGELO	85	51	91	42	68	-2	0	0	0	3.9	101	28.7	190	81	23	1	0	0	0
SAN ANTONIO	87	54	89	48	70	-3	0	0	0	2.2	47	32.8	140	81	24	0	0	0	0
VICTORIA	86	57	88	52	71	-3	0	0	0	3.2	42	35.0	115	90	29	0	0	0	0
WACO	87	52	93	41	70	-3	0	0	0	5.7	135	26.2	106	80	24	1	0	0	0
WICHITA FALLS	82	51	91	45	66	-3	0	0	0	2.2	50	28.1	126	76	27	1	0	0	0
UT BLANDING	79	47	81	43	63	7	0	0	0	.7	54	14.2	166	49	18	0	0	0	0
CEDAR CITY	81	43	83	41	62	6	0	0	0	.3	22	7.7	94	42	13	0	0	0	0
SALT LAKE CITY	77	47	81	43	62	6	0	0	0	.1	4	9.1	77	58	18	0	0	0	0
VT BURLINGTON	57	36	69	30	47	-4	.6	0	.5	4.6	111	21.7	82	85	51	0	3	3	1
VA NORFOLK	68	48	76	41	58	-7	.4	-.5	.3	7.8	143	37.9	103	92	39	0	0	2	0
RICHMOND	68	40	75	34	54	-8	.1	-.8	.1	4.8	102	33.4	96	93	37	0	0	1	0
ROANOKE	64	38	78	29	51	-9	.1	-.7	.1	11.2	262	43.5	140	91	38	0	2	2	0
WA COLVILLE	69	37	74	26	53	3	0	0	0	.4	31	12.9	106	58	30	0	1	0	0
QUILLAYUTE	73	41	82	36	57	5	0	0	0	2.0	22	56.8	83	94	37	0	0	0	0
SEATTLE-TACOMA	72	49	77	44	61	6	0	0	0	.9	31	20.3	85	90	39	0	0	0	0
SPOKANE	70	40	77	28	55	4	0	0	0	T	1	11.3	101	68	22	0	1	0	0
YAKIMA	75	37	80	27	56	3	0	0	0	0	0	4.6	88	84	24	0	1	0	0
WV BECKLEY	59	37	69	31	48	-7	.2	-.4	.2	3.5	76	32.0	93	90	41	0	3	3	0
CHARLESTON	61	39	71	31	50	-9	.1	-.5	.1	4.4	114	30.0	87	98	44	0	1	2	0
HUNTINGTON	63	40	72	30	51	-9	.2	-.3	.1	2.3	62	25.8	78	99	42	0	2	2	0
PARKERSBURG	61	40	71	30	51	-9	.9	.3	.5	1.8	86	20.8	67	94	40	0	2	4	1
WI GREEN BAY	53	35	68	23	44	-8	.1	-.4	.1	1.8	45	16.5	71	87	45	0	3	2	0
LACROSSE	56	37	75	27	47	-8	T	-.5	T	2.1	49	28.5	109	80	41	0	3	0	0
MADISON	54	34	68	22	44	-9	.2	-.4	.2	3.8	99	25.0	97	86	44	0	3	1	0
MILWAUKEE	55	38	68	29	47	-8	.1	-.4	.1	2.4	65	30.1	119	85	45	0	1	2	0
WAUSAU	50	34	71	26	42	-9	.2	-.4	.2	2.7	57	19.2	71	86	49	0	3	2	0
WY CASPER	64	33	81	27	48	-3	0	0	0	.6	58	11.2	118	65	23	0	5	0	0
CHEYENNE	62	35	78	25	48	-3	.1	-.1	.1	1.0	76	13.7	115	70	28	0	3	0	0
LANDER	64	38	76	30	51	0	T	-.3	T	.3	24	12.3	112	54	22	0	2	0	0
SHERIDAN	60	32	79	18	46	-5	.4	.1	.4	1.9	124	12.9	102	83	37	0	3	0	0
PR SAN JUAN	91	75	93	74	83	2	.5	-.8	.3	2.3	30	44.3	110	93	76	7	0	1	3

Based on 1951-80 normals

National Agricultural Summary

October 5 to 11, 1987

HIGHLIGHTS: Ideal weather pushed row crop harvest toward completion in most of the Nation. Inadequate moisture slowed winter wheat growth and inhibited seed germination in the central Great Plains, Delta, and the Southeast. Soil moisture was becoming critically short in the Delta and the lower Southeast. Some northern and central Great Plains States had inadequate moisture. Fieldwork averaged 5 to 7 days in most areas of the Nation. Precipitation limited fieldwork to less than 5 days in New York, Pennsylvania, Virginia, West Virginia, and Michigan.

Winter wheat seeding reached 79 percent (%) completion, 13 percentage points above normal and the previous week. Emergence was 15 points ahead of normal at 57% completion. Corn harvest surged 20 points above the previous week, reaching 69% completion. Harvest was 31 points above average. Soybean harvest ended the week 31 points ahead of normal and 21 points greater than the previous week. Slow harvesting progress in New Mexico, Oklahoma, and Texas limited cotton harvest to 39% completion, 6 points above normal. Sorghum harvest reached 60% completion, 15 points above normal. Rice harvest was finished except in California and Arkansas. Livestock was mostly good.

SMALL GRAINS: Winter wheat was mostly good, but dryness slowed growth and germination in the central Great Plains, Delta, and Southeast. Seeding reached 79% completion, and 57% was emerged. This compares with 66% seeded and 42% emerged normally. Seeding jumped 13 points from the previous week. Seeding was virtually finished in the northern and central Great Plains and Rocky Mountains States. Dry weather caused seeding problems in Alabama. In Arkansas, wheat seeding improved, but moisture is needed for emergence. Rain is needed in Kansas to assure emergence and good stands. Wheat streak mosaic disease in southwestern areas was mostly moderate, but some were severe. Low levels of leaf rust developed in southwest Kansas. Inadequate moisture stressed wheat seedlings in south-central and east-central Nebraska.

CORN: Corn harvest surged 20 points ahead of the previous week to 60% completion. Harvest was 36 points ahead of 1986 and 31 points above normal. Harvest was more than 50% finished in 11 of the 17 major producing States. Harvest was more than 30 points ahead of normal in Illinois, Indiana, Iowa, Kentucky, Minnesota, Missouri, and Wisconsin. Freezing temperatures should hasten corn maturity and harvest in Colorado. Corn harvest neared completion in southern Kansas. Corn borer damage began causing ear droppage in Minnesota, Nebraska, and South Dakota.

SOYBEANS: In the 19 major producing States, 90% of the soybean acreage had dropped leaves, compared with 87% in 1986 and 86% average. Harvest jumped 21 points ahead of the previous week and was 40 points ahead of 1986 and 31 points above the 34% average. Harvest was nearing completion in most Corn Belt States. Harvest should gain momentum in the Southeast because of cooler temperatures and killing frost.

SORGHUM: Sorghum was 88% mature, 7 points ahead of normal and the previous week. Sorghum was virtually mature except in Kansas, Oklahoma, and Texas. Harvest increased 13 points and was 15 points above the 45% average. Nebraska's harvest doubled from the previous week to 60% completion, 39 points ahead of normal. South Dakota's harvest

registered a 35-point increase, ending the week 40 points above normal. Oklahoma's harvest was only 15% finish, but late-week frost should accelerate harvest. Harvest neared completion in Arkansas, Illinois, Mississippi, and Tennessee.

COTTON: Ideal weather in the southeast pushed cotton harvest 8 points ahead of the previous week to 39% completion. Normally, 26% of the acreage would be harvested by this date. Seventy-three percent of the acreage had reached boll opening, compared with 67% in 1986 and 78% average. Cool night temperatures slowed cotton maturity in Texas. Some producers applied opening enhancers. Cotton harvest progressed rapidly in California reaching 75% completion, 28 points ahead of normal. Cotton defoliation was active in most areas. Twenty-three percent of South Carolina's cotton acreage was harvested in 1 week, surpassing 50% harvested. North Carolina's harvest was 24% finished, just slightly behind normal. Frost lightly damaged late-maturing cotton in Oklahoma. Warm weather is needed to minimize crop losses.

OTHER CROPS: Rice was 90% harvested, 10 points ahead of normal. Arkansas harvest was 96% finished, 6 points above the 82% average. California's harvest doubled from the previous week to 50% completion. Harvest progress was moving 15 points faster than normal.

Peanut harvest trailed behind normal throughout the Southeast and in Texas. Dry weather continued hampering harvest in Alabama and Georgia. Peanut harvest was just beginning in the Plains and Cross-Timbers areas of Texas.

Frost damaged flue-cured tobacco left to be harvested in North Carolina and Virginia. In some areas, damage may be severe enough to warrant not harvesting the remaining leaves. Burley stripping reached 9% completion in Kentucky, 5 points above normal. Moisture is needed to enhance stripping. Sixteen percent of Tennessee burley crop was stripped.

FRUIT AND NUTS: Cool weather slowed citrus growth and coloring in Florida. Grapefruit harvest was underway. Citrus trees were very good. Citrus harvest increased in Texas. Fruit size increased as a result of cooler weather and rain. California valencia orange harvest neared completion, but navel harvest was just beginning. Grapefruit and tangerine harvest was underway in the desert. Grape harvest neared completion. Walnut, pomegranate, and persimmon harvests were active.

VEGETABLES: Hurricane Floyd produced minimal damage in southern areas of Florida. Most planting continued on schedule. Fall harvest increased with major crops of sweet corn, radishes, squash, cucumbers, and eggplant. Fall vegetable planting continued in the San Antonio-Winter Garden area. Seasonal vegetable harvest continued in most areas. Winter vegetable planting was active in central Arizona. California vegetable harvest consisted mostly of broccoli, artichokes, carrots, cauliflower, celery, lettuce, sweet corn, cucumbers, and sweet corn.

PASTURES AND LIVESTOCK: Pastures were mostly fair to good. Insufficient moisture limited growth in the southern half of the Nation. Livestock was mostly good. Producers continued making preparation for the winter.

Crop Progress

FOR WEEK ENDING OCTOBER 11, 1987

SOYBEANS
% DROPPING LEAVES

	1987	1986	AVG.
ALA	66	56	61
ARK	55	46	49
GA	71	74	70
ILL	100	100	98
IND	100	99	98
IOWA	100	97	97
KANS	96	90	85
KY	85	75	68
LA	75	61	66
MICH	99	95	98
MINN	100	99	99
MISS	80	81	83
MO	98	87	82
NEBR	100	98	95
N C	26	37	31
OHIO	100	99	99
S C	27	38	39
S DAK	100	100	100
TENN	85	75	75

19 STATES 90 87 86

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

SOYBEANS
% HARVESTED

	1987	1986	AVG.
ALA	23	17	16
ARK	24	14	10
GA	5	6	7
ILL	93	36	60
IND	80	32	48
IOWA	90	23	40
KANS	50	20	25
KY	27	18	12
LA	42	22	24
MICH	20	2	20
MINN	91	32	32
MISS	33	25	18
MO	55	14	23
NEBR	65	25	25
N C	4	2	2
OHIO	75	45	50
S C	0	5	0
S DAK	89	20	39
TENN	19	10	8

19 STATES 65 25 34

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

CORN
% HARVESTED

	1987	1986	AVG.
COLO	15	12	15
GA	94	96	95
ILL	81	35	36
IND	67	28	20
IOWA	58	13	26
KANS	75	60	50
KY	82	62	49
MICH	25	3	10
MINN	55	5	13
MO	81	42	51
NEBR	45	18	20
N C	73	81	80
OHIO	52	20	35
PA	21	18	12
S DAK	40	5	18
TEX	93	90	91
WIS	38	3	8

17 STATES 60 24 29

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

GRAIN SORGHUM
% MATURE

	1987	1986	AVG.
ARK	100	98	NA
ILL	100	99	NA
KANS	80	80	70
LA	100	100	99
MISS	100	100	100
MO	98	91	88
NEBR	100	96	86
OKLA	85	70	85
S DAK	99	79	84
TENN	100	100	96
TEX	85	77	86

11 STATES 89 84 NA

EXCL. STATES WITH NA 88 83 81

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

NA - NOT AVAILABLE.

GRAIN SORGHUM
% HARVESTED

	1987	1986	AVG.
ARK	97	94	89
ILL	90	38	39
KANS	40	20	20
LA	100	100	97
MISS	96	99	86
MO	80	41	49
NEBR	60	17	21
OKLA	15	15	25
S DAK	63	10	23
TENN	92	85	65
TEX	65	63	70

11 STATES 60 42 45

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

RICE
% HARVESTED

	1987	1986	AVG.
ARK	96	96	82
CALIF	50	40	35
LA	100	100	97
MISS	100	99	89
TEX	100	100	100

5 STATES 90 89 80

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

WINTER WHEAT
% PLANTED

	1987	1986	AVG.
ARK	20	13	13
CALIF	3	3	3
COLO	96	97	96
GA	6	11	9
IDAHO	74	75	76
ILL	65	16	38
IND	55	23	45
KANS	95	80	75
MICH	50	10	60
MO	53	15	30
MONT	95	56	74
NEBR	100	96	98
N MEX	90	90	NA
N C	12	10	12
OHIO	65	16	47
OKLA	75	60	60
OREG	48	60	55
S DAK	100	88	98
TEX	79	65	56
WASH	76	87	84

20 STATES 79 65 NA

EXCL. STATES WITH NA 79 65 66

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

NA - NOT AVAILABLE.

WINTER WHEAT
% EMERGED

	1987	1986	AVG.
ARK	4	5	NA
CALIF	0	0	0
COLO	77	78	81
GA	4	7	NA
IDAHO	38	38	44
ILL	18	10	15
IND	21	19	22
KANS	65	70	40
MICH	30	5	NA
MO	27	11	13
MONT	79	31	46
NEBR	95	88	82
N MEX	85	85	NA
N C	4	5	NA
OHIO	22	8	18
OKLA	45	40	30
OREG	15	29	24
S DAK	97	78	85
TEX	54	47	30
WASH	56	66	60

20 STATES 55 51 NA

EXCL. STATES WITH NA 57 53 42

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

NA - NOT AVAILABLE.

	COTTON % BOLLS OPENING		
	1987	1986	AVG.
ALA	99	96	93
ARIZ	95	99	98
ARK	100	96	96
CALIF	100	100	95
GA	87	85	86
LA	100	100	98
MISS	100	100	100
MO	100	91	100
N MEX	90	100	99
N C	100	99	99
OKLA	60	45	75
S C	96	97	94
TENN	100	100	100
TEX	48	38	60
14 STATES	73	67	78

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

	COTTON % HARVESTED		
	1987	1986	AVG.
ALA	75	47	38
ARIZ	14	20	13
ARK	75	61	47
CALIF	25	5	4
GA	45	27	23
LA	80	77	47
MISS	80	86	49
MO	83	67	54
N MEX	4	5	6
N C	24	27	25
OKLA	1	0	5
S C	53	26	39
TENN	75	65	50
TEX	18	16	19
14 STATES	39	34	26

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

Crop Condition

FOR WEEK ENDING OCTOBER 11, 1987

CORN						COTTON						GRAIN SORGHUM					
STATE	VP	P	F	G	EX	STATE	VP	P	F	G	EX	STATE	VP	P	F	G	EX
COLO	0	1	14	69	16	ALA	0	10	65	25	0	ARK	0	2	53	45	0
GA	0	5	39	51	5	ARIZ	0	0	0	95	5	KANS	0	4	12	38	46
IOWA	0	1	7	58	34	ARK	0	0	13	48	39	MISS	0	1	47	52	0
KANS	0	4	16	53	27	CALIF	0	0	0	35	65	NEBR	0	0	9	78	13
MICH	3	12	30	40	15	GA	0	1	37	62	0	OKLA	0	1	15	60	24
NEBR	0	0	7	69	24	MISS	0	1	1	73	25	S DAK	0	0	26	63	11
PA	2	10	24	39	25	N MEX	0	0	13	87	0	TEX	0	2	13	64	21
S DAK	0	0	11	72	17	N C	0	4	56	36	4						
TEX	0	3	14	55	28	OKLA	0	0	20	60	20						
WISC	0	1	5	63	31	S C	3	28	69	0	0						
						TEX	0	1	21	69	9						

SOYBEANS					
STATE	VP	P	F	G	EX
ALA	0	23	69	8	0
ARK	1	19	54	26	0
GA	2	19	46	29	4
IOWA	1	1	7	51	40
KANS	0	0	5	29	66
KY	8	39	45	8	0
LA	0	6	43	46	5
MICH	2	8	30	45	15
MISS	2	30	40	28	0
MO	2	11	31	49	7
NEBR	0	0	14	68	18
N C	0	7	42	50	1
S C	1	2	45	52	0
TENN	4	21	67	8	0

WINTER WHEAT					
STATE	VP	P	F	G	EX
ARK	0	19	23	46	12
COLO	0	1	19	69	11
GA	0	14	42	44	0
IDAHO	0	7	50	40	3
IND	2	7	33	52	6
KANS	0	5	34	28	33
KANS	0	5	25	50	20
MICH	0	0	12	79	9
MONT	0	0	35	63	2
NEBR	0	0	30	40	30
N MEX	0	0	10	90	0
OKLA	0	0	49	51	0
OREG	0	0	24	55	17
S DAK	0	4	18	67	11
TEX	0	4	40	60	0
WASH	0	0			

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: No rainfall. Temperatures averaged 6 to 9° below normal.

Days suitable for fieldwork 6.8. Soil moisture 98% short, 2% adequate. Dry conditions caused problems; small grain seedings, peanut digging. Corn 91% harvested, 89% 1986, 90% avg. Sorghum 70% harvested, 72% 1986, 73% avg. Cotton 75% harvested, 47% 1986, 38% avg. Soybeans 91% turning color, 83% 1986, 85% avg.; 66% dropping leaves, 56% 1986, 61% avg.; 42% mature, 36% 1986, 39% avg.; 23% harvested, 17% 1986, 16% avg.; 23% poor, 69% fair, 8% good. Peanuts 74% dug, 39% 1986, 81% avg.; 63% combined, 23% 1986, 72% avg.; 33% poor, 60% fair, 7% good. Wheat 26% seeded, 22% 1986, 17% avg. Pastures mostly fair; livestock mostly good. Primary activities: Harvesting row crops, hay, fall vegetables, catfish; defoliating cotton; planting small grains, annual forage crops; fertilizing fish ponds; overseeding pastures; routine care of livestock, poultry.

ALASKA: NO DATA AVAILABLE UNTIL SPRING.

ARIZONA: Large high pressure system 2nd through 8th produced Indian summer weather, unseasonably high temperatures. Temperatures reached 108° lower western deserts, 90s 5,000 ft., lower 80s high country. Dry air, sunny days, clear nights produced large temperature ranges, mostly 30 to 45°. Average temperatures 3 to 10° above normal. No rain 4th through 10th.

Cotton harvest underway southeast, defoliation active. Ginning active central. Good quality cotton, ginning west. Plow under active. Alfalfa hay good. Emergence, stand establishments, progressed satisfactorily. Aphids numerous sorghum west, none harvested. Lemon, grapefruit harvest west; fruit sizing, developing normally. Groves good. Lettuce, cauliflower, broccoli, celery progressed west; thinning, cultivation, fertilization continued. Winter vegetable planting active central. Lettuce harvested southeast. Mixed vegetables, greens shipped central valley. Broccoli, chile peppers harvested. Sweet corn picked central valley. Apple harvest active southeast; movement slow. Pecans picked. Cantaloup movement heavy central valley. Honeydew shipments light. Cantaloups, honeydews picked west. Mixed melons, watermelons harvested central valley. Pumpkins, winter squash shipped southeast.

ARKANSAS: Very cold week. Canadian high pressure dominated weather. Temperatures well below normal; extremes 28°, 91°. Rainfall very light, confined to northern third of State end of week; none to 0.74 in.

Days suitable for fieldwork 7.0. Soil moisture 84% short, 16% adequate. Favorable harvest weather, but moisture needed for small grain emergence. Major farming activities: Cotton, rice, soybean, sorghum harvest; baling hay; pasture seeding, fertilization; land preparation, small grain seeding; cattle worming. Cotton harvest peaked, gins overloaded. Rice harvest almost complete, milling quality down. Farmers disking levees, stubble. Soybean harvest speeding up, wide yield range, some disappointing. Sorghum harvest neared end. Wheat seeding improved, moisture needed for emergence. Hay cutting activities slowing down. Frost northwest portion slowed pasture growth. Livestock good, supplemental feeding continued.

CALIFORNIA: Record breaking heat over many areas of State; 108° Los Angeles, 102° San Francisco, 102° Sacramento. By 9th low pressure area developed along coast bringing cooler temperatures. No rain except light amount Eureka. Dry weather permitted rapid harvest progress.

Cotton, rice harvests full swing. Cotton defoliation active. Dry bean harvest full swing, good yields, high quality. Field corn, alfalfa hay, sugarbeet, sunflower, grain sorghum harvests good progress. Early seeding winter grains. Preparing fields for next year's crops active. Granny smith apples, date harvests continued. Harvesting fall avocado varieties. Grape harvest winding down. Ideal growing conditions produced excellent quality crop. Kiwi harvest started. Late plum varieties continued. Pomegranate, persimmon harvests active. Olive harvest started. Valencia orange neared completion. Navel orange harvest started. Desert lemon, summer grapefruit harvests continued. Desert grapefruit, tangerine started. Almond harvest winding down. Walnut harvest continued. Artichokes fairly light, good quality Salinas. Beans harvested for freezing Modesto-Turlock. Broccoli fairly heavy Salinas, variable quality; Santa Maria moderate, good quality, mostly freezing. Plantings Westside treated for aphids. Carrot fairly heavy Salinas, good quality. Production Kern-Tulare light, slow market. Cauliflower fairly heavy Salinas, variable quality; movement moderate Santa Maria, good quality. Celery fairly heavy Salinas-Watsonville, Santa Maria-Oceano; variable, good quality, respectively. Sweet corn harvest active Westside. Cucumber packing fairly active Westside. Lettuce fairly heavy; decreased Salinas, moderate Santa Maria, variable weight, quality. Fall harvest began Huron District. Planted fields desert forming heads. Watermelon, cantaloup, honeydew, mixed melon harvests winding down statewide. Cantaloup harvest completed, Fresno County. Honeydew, mixed melon nearly done Sacramento Valley; mixed melons completed Modesto-Turlock. Desert harvest continued cantaloups, honeydews. Dehydrator onion harvest began Tulare-Butte Valley. Pepper fairly heavy Salinas; moderate Santa Maria; good quality. Harvest active Delta, central valley, south coast, good quality. Fall potato harvest full swing very good quality Tulare-Butte Valley. Harvesting weather ideal. Processing, fresh market tomato production continued good quality Delta, central valley. Ground work being done for spring planting Sacramento Valley. Ranges, pastures stressed, moisture badly needed all areas. Supplemental feeding underway. Livestock good. Some pastures being irrigated. Calving, lambing continued.

COLORADO: Temperatures 2 to 4° above normal west of Continental Divide, 1 to 3° below normal east of Divide. Scattered showers in mountains, dry for most of State. Precipitation none to 0.04 in.

Days suitable for fieldwork 6.4. Soil moisture 21% very short, 61% short, 18% adequate. Corn good. Freezing temperatures should speed corn maturity. Oats 97% harvested; spring wheat 96% harvested. Fall potatoes 69% harvested. Sorghum 55% harvested. Livestock good, pastures mostly fair to good.

FLORIDA: Dry, cool most of week. First significant rains, 1.00 to 3.00 in. south, much lighter amounts central. Temperatures significantly below normal, averaging 9° below north, 3° below south. Soil moisture lower Peninsula adequate; other areas mostly short. Good harvesting conditions.

Harvesting cotton, hay, peanuts active. Early fields soybeans harvested. Planting sugarcane continued. Land preparation for planting small grains. Armyworms problem some hay fields. Some Panhandle, upper Peninsula, central pastures poor to fair; elsewhere, good to excellent. Hay making active. Cattle mostly good to excellent. Citrus trees very good. Cool slowing growth, coloring fruit. Picking grapefruit underway. Ideal weather, until weekend, over vegetable producing areas. Rain, wind accompanying Hurricane Floyd produced minimal damage southern areas. Most plantings continued on schedule. Fall harvest increasing. Among crops harvested: sweet corn, radishes, squash, cucumbers, eggplant.

GEORGIA: Dry week. Temperatures 5 to 10° below normal. Lows upper 20s mountains, around 40s south. Highs upper 70s north, low to mid 80s central, south.

Days suitable for fieldwork 6.5. Soil moisture 48% very short, 51% short, 1% adequate. Sorghum grain 5% very poor, 10% poor, 39% fair, 41% good, 5% excellent; 69% harvested, 57% 1986. Peanuts 4% very poor, 27% poor, 53% fair, 16% good; 83% dug, 52% 1986, 84% avg.; 68% threshed, 40% 1986, 76% avg. Cool weather slowed maturity; dry soils avg. Soybeans maturing rapidly due to slowed harvest. Soybeans maturing rapidly due to slowed harvest. Rye much below normal temperatures, dry weather. Rye 27% planted, 22% 1986, 26% avg. Other small grains 18% planted, 2% 1986, 15% avg. Apples 9% poor, 17% fair, 65% good, 9% excellent; 83% harvested, 82% 1986, 91% avg. Pecans 3% poor, 34% fair, 60% good, 3% excellent; 1% harvested, 2% 1986, 3% avg. Pasture 3% very poor, 17% poor, 54% fair, 25% good, 1% excellent. Hay 6% very poor, 28% poor, 35% fair, 31% good. Cattle 1% poor, 21% fair, 76% good, 2% excellent. Hogs 15% fair, 82% good, 3% excellent. Main activities: Harvest operations very active. Dry soils limited small grain seeding. Pastures need rain.

HAWAII: Mostly sunny. Light to heavy showers windward, mountainous areas. Temperatures near 90° all week. Most crops improved condition. Irrigation heavy. Water restrictions lifted one major vegetable growing region. Temperatures low 70s to low 90s. Rainfall none to 2.60 in.

Days suitable for fieldwork 7.0. Banana production steady. Papaya production heavy. Chinese, head cabbage supplies steady. Watermelon heavy, decline expected.

IDAHO: Temperatures 1 to 8° above normal, average 4°. No precipitation.

Days suitable for fieldwork 7.0. Winter wheat 74% seeded, 75% 1986, 76% avg. Winter wheat 38% emerged, 38% 1986, 44% avg. Winter wheat fair to good. Potatoes 90% harvested, 82% 1986, 62% avg. Dry bean harvest virtually complete. Onions 97% harvested, 79% 1986, 78% avg. Apples 75% harvested, 54% avg. Sugarbeets 36% harvested, 32% 1986, 20% avg. Corn for grain 14% harvested. Third cutting alfalfa hay 97%. Livestock good. Range, pasture dry, short, providing limited grazing.

ILLINOIS: Temperatures averaged 7 to 14° below normal. Precipitation insignificant north, central; totals 0.75 to 1.00 in. southwest.

Days suitable for fieldwork 6.8. Soil moisture 62% short, 38% adequate. Pasture 2% very poor, 19% poor, 35% fair, 38% good, 6% excellent. Harvesting corn, soybeans, sorghum continued to progress well ahead of average, most farmers southern two-thirds of State complete. Good weather, field conditions mean record finish.

INDIANA: Temperatures averaged 7 to 13° below normal. Freezing temperatures over entire State. Lows upper 20s, highs upper 60s. Precipitation

widespread, totals 0.25 to 1.00 in., still below normal.

Days suitable for fieldwork 5.5. Topsoil moisture 43% short, 49% adequate, 8% surplus. Subsoil moisture 52% short, 48% adequate. Corn 17% moisture content. Soybeans 99% mature, 88% 1986, 87% avg. Wheatland 73% plowed, 57% 1986, 70% avg. Rye 68% seeded, 39% 1986, 58% avg. Pastures 9% very poor, 24% poor, 33% fair, 34% good. Silos 98% filled, 98% 1986, 91% avg. Rain slowed harvest some areas.

IOWA: Cold, dry week. Temperature lows Ames 14°, Waterloo 16° 11th. Precipitation only traces. Snowfall southern part of State 9th, 10th. Third week with negligible precipitation.

Days suitable for fieldwork 6.9. Topsoil moisture 25% short, 75% adequate; subsoil moisture 9% short, 91% adequate. Winter wheat 80% seeded, 41% 1986, 62% avg. Fall tillage 15%, 2% 1986, 7% avg.; fall fertilizer application 10%, 1% 1986, 6% avg. Livestock mostly good to excellent. Weather conditions very favorable for livestock gleaned harvested fields. Pastures 2% poor, 21% fair, 57% good, 20% excellent.

KANSAS: Temperatures averaged low to mid 50s. Coldest readings of season noted northwest. Precipitation very light, many areas no precipitation. Isolated amounts 0.10 to 0.40 in. south, east.

Days suitable for fieldwork 6.5. Soil moisture 68% short, 32% adequate. Wheat seeding good progress. Rain needed to assure emergence, stand development. Wheat streak mosaic southwest, mostly moderate, some severe. Likely spread from infected volunteer wheat. Leaf rust southwest, low levels. Row crop harvest ahead normal, aided by dry weather. Good harvest progress all areas. Corn harvest neared completion southern third. Sorghum harvest farthest along eastern third. Pastures good; conditions decreased due to short moisture, cooler weather. Cattle moving onto corn, sorghum stubble. Some wheat grazing underway.

KENTUCKY: Mostly cool, dry. Rainfall very light, averaged 0.25 in. or less. Cool, average temperatures 5 to 10° below normal. Frost, freezing temperatures several spots.

Days suitable for fieldwork 5.7. Soil moisture 73% very short, 26% short, 1% adequate. Corn harvest continued record pace. Soybeans poor to fair; continued to mature, 85% shedding leaves or beyond. Burley stripping reached 9%, 6% 1986, 4% avg. Rain needed to enhance stripping. Housed tobacco fair to mostly good. Sorghum 80% harvested. Wheat seedings advanced to 35%, 32% 1986, 24% avg. Pastures very poor to fair.

LOUISIANA: Temperature 6 to 9° below normal. Temperature extremes 36°, 89°. No rainfall.

Days suitable for fieldwork 6.7. Soil moisture 89% short, 11% adequate. Soybeans 91% turning color, 87% 1986, 88% avg. Hay final cutting 97%, 94% 1986, 92% avg. Winter wheat 6% planted, 6% 1986, 9% avg.; 1% emerged, 2% 1986, 4% avg. Sugarcane good; 98% planted, 97% 1986, 90% avg.; 3% harvested, 2% 1986, 3% avg. Sweetpotatoes 88% harvested, 85% 1986, 78% avg. Pecans fair; 1% harvested, 2% 1986, 2% avg. Livestock good; harvested, 2% 1986, 2% avg. Pastures fair to good; vegetables fair. Main activities: Harvesting cotton, sugarcane, sweetpotatoes, soybeans; baling hay; planting sugarcane, fall vegetables, winter wheat.

MARYLAND & DELAWARE: Maryland: Average temperature 53°, normal 59°. Lowest temperature 28° Hancock. Highest temperature 77° Cumberland. Mostly light frosts. Precipitation averaged 0.88 in.

Days suitable for fieldwork 6.0. Topsoil moisture adequate. Subsoil moisture adequate to short, mostly adequate. Corn fair. Corn 98% mature, 95% avg. Corn for grain 75% harvested, 60% avg. Corn silage 95% cut, 95% avg. Soybeans fair to poor, mostly fair. Soybeans 85% turn color, 90% avg. Soybeans 65% shed leaves, 65% avg. Soybeans 15% harvested, 10% avg. Tobacco 100% harvested. Winter wheat 30% planted, 30% avg. Barley 55% planted, 55% avg. Oats 10% planted, 35% avg.

Delaware: Average temperature 55°, normal 61°. Precipitation averaged 1.22 in. Some frost.

Days suitable for fieldwork 6.6. Topsoil moisture adequate to short, mostly adequate. Subsoil moisture short to adequate, mostly short. Corn poor to fair. Corn 100% mature, 98% avg. Corn for grain 70% harvested, 65% avg. Soybeans poor to fair. Soybeans 85% turned color, 90% avg. Soybeans 60% shed leaves, 70% avg. Soybeans 5% harvested, 5% avg. Winter wheat 10% planted, 10% avg. Barley 25% planted, 40% avg.

MICHIGAN: Temperatures 4 to 8° below normal. Temperature extremes 16°; 71°. Precipitation ranged from none to 1.34 in. across State.

Days suitable for fieldwork 4.5. Soil moisture 60% adequate, 40% surplus. Corn 97% mature, 75% 1986, 90% avg.; 25% harvested, 3% 1986, 10% avg; 3% very poor, 12% poor, 30% fair, 40% good, 15% excellent. Soybeans 99% shedding, 95% 1986, 98% avg.; 20% harvested, 2% 1986, 20% avg.; 2% very poor, 8% poor, 30% fair, 45% good, 15% excellent. Winter wheat 50% planted, 10% 1986, 60% avg.; 30% emerged, 5% 1986, NA avg.; 5% poor, 25% fair, 50% good, 20% excellent. Dry beans 40% harvested, 10% 1986, 70% avg. Major activities: Apple, grape harvesting, haying, corn for grain, soybean, dry bean harvesting, wheat planting.

MINNESOTA: Temperatures averaged 7 to 10° below normal for State. Temperature extremes 13°; 87°. Precipitation averaged 0.14 to 0.52 in. below normal.

Days suitable for fieldwork 6.2. Excellent weather pushed harvest well ahead of normal; record yield corn, soybean. Corn borer damage west central, central, east central; 2 to 10° ear droppage. Survey southern districts next week. Cooler weather boosted sugarbeet harvest. Field corn 55% picked, 5% 1986, 13% avg.; 19% moisture content, 27% 1986, 28% avg. Soybeans 91% combined, 32% 1986, 32% avg.; 10% moisture content, 14% 1986, 14% avg. Sunflowers 39% harvested, 7% 1986, 13% avg. Sugarbeets 83% harvested, 70% 1986, 46% avg. Potatoes 96% harvested, 86% 1986, 83% avg.

MISSISSIPPI: Temperatures 6 to 13° below normal; extremes 28°; 85°. Dry, cold fronts kept temperatures well below normal. No rainfall anywhere in State.

Days suitable for fieldwork 6.6, 4.4 1986, 4.0 avg. Soil moisture 60% very short, 30% short, 10% adequate. Corn 92% harvested, 99% 1986, 85% avg.; 25% fair, 60% good, 15% excellent. Hay 95% harvested, 95% 1986, 94% avg. Sorghum silage 99% harvested, 100% 1986, 97% avg. Peanuts 86% harvested, 92% 1986, 80% avg. Sweetpotatoes 74% harvested, 81% 1986, 64% avg. Wheat 11% planted, 18% 1986, 16% avg. Pecans 7% harvested, 9% 1986. Soybeans 94% coloring, 92% 1986; 80% shedding, 81% 1986, 83% avg.; 57% mature, 57% 1986; 33% harvested, 25% 1986, 18% avg.; 2% very poor, 30% poor, 40% fair, 28% good. Sorghum 100% mature, 100% 1986, 100% avg.; 96% harvested, 99% 1986, 86% avg.; 1% poor, 47% fair, 52% good. Rice 100% harvested, 99% 1986, 89% avg. Cotton 80% harvested, 86% 1986, 49% avg.; 1% poor, 1% fair, 73% good, 25% excellent.

MISSOURI: Temperatures averaged 7 to 10° below normal, western area coldest. Precipitation spotty, less than 0.10 in. northern third, less than 0.50 in. elsewhere.

Days suitable for fieldwork 8.5. Topsoil moisture 54% short, 46% adequate. Moisture mostly short east central, south central, southeast. Crops dry, harvesting proceeded record pace most areas. Fall tillage for spring planted crops 23%, 7% 1986, 18% avg. Pasture 5% very poor, 12% poor, 42% fair, 38% good, 3% excellent.

MONTANA: Temperatures above normal early, very cold late. Average temperature eastern, central 4 to 7° below normal. Southwest averaged normal to 2° below normal. Western 2 to 3° above normal. Snow showers accompanied colder temperatures, no significant accumulation.

Days suitable for fieldwork 6.7. Topsoil moisture 45% short, 55% adequate. Subsoil moisture 18% short, 82% adequate. Sugarbeets 31% harvested, 19% 1986, 32% avg. Dry beans 98% harvested, 87% 1986, 83% avg. Potatoes 75% harvested, 54% 1986, 59% avg. Corn silage 97% harvested, 87% 1986, 89% avg. Cattle, calves moved from summer pastures 55%, 54% 1986, 65% avg. Sheep, lambs moved from summer pastures 62%, 60% 1986, 71% avg.

NEBRASKA: Temperatures averaged 10° below normal. Extremes 16°; 78°. Precipitation end of week; rain, snow, less than 0.10 in.

Days suitable for fieldwork 7.0. Topsoil moisture 57% short, 43% adequate. Subsoil moisture 17% short, 81% adequate, 2% surplus. Fall crop harvest progressed rapidly. Moisture content acceptable. Ear drop north central, south central counties due to high wind, corn borer damage. Dry beans, potatoes, alfalfa seed, sunflowers harvested. Final alfalfa cuttings most areas. CRP grass seeded. Some winter wheat seeding stressed south central, east central, west due to lack of topsoil moisture. Pasture, range feed supplies declined. Stalk fields abundant. Weaning calves, moving hay, fencing stalk fields active. Pastures sprayed for thistle.

NEVADA: Weather again dominated by strong high pressure system which weakened slightly end of week. Temperatures 5 to 10° above normal all areas. No precipitation anywhere.

Potato harvest nearly completed. Late cuttings alfalfa hay still in progress most areas. Onion harvest neared completion. Livestock generally good.

NEW ENGLAND: Temperatures averaged near normal north ranging mid to upper 40s. Temperatures averaged few degrees below normal elsewhere ranging mid to upper 40s central sections, low 50s coastal south. Average rainfall 2.00 in. across northern area, 0.50 to 1.00 in. across central, southern area.

Days suitable for fieldwork 5.0. Soil moisture 60% adequate, 40% surplus. Grazing availability 9% short, 82% adequate, 9% surplus. Fieldwork progress 2.0 days behind. Maine potatoes excellent; 88% harvested, 65% 1986, 87% avg. Field corn good; 70% harvested, 59% 1986, 67% avg. Third crop hay good; 75% harvested, 80% 1986, 88% avg. Apples good; 80% picked, 81% 1986, 77% avg. Cranberries 50% harvested, size average, color good. Major farm activities: Chopping corn, haying, harvesting fruits, vegetables; repairing, servicing machinery, fall clean-up chores.

NEW JERSEY: Temperatures averaged much below normal. Extremes 26°; 76°. Rainfall averaged 0.53 in. north, 0.32 in. central, 0.37 in. south. Heaviest 24-hour total 0.45 in. on 6th, 7th. Estimated soil moisture percent field capacity

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averaged 99% north, 95% central, 95% south. Four inch soil temperatures averaged 53° north, 53° central, 56° south.

Colder temperatures slowed crop growth. Soil moisture adequate to excessive. Fall vegetable harvest active. Most growers finished irish potato digging. Sweetpotato harvest advanced. Apple, cranberry harvest progressed well. Silage making neared completion. Harvest of corn for grain, soybeans active as conditions permitted. Seeding of rye, barley active as crops harvested. Pasture growth slowed.

NEW MEXICO: Temperatures over State ranged 22° Quemado, 94° Carlsbad; days, nights clear no precipitation.

Days suitable for fieldwork 7.0. Soil moisture 50% short, 50% adequate. No hail damage. Cotton 13% fair, 87% good; harvest activity gained momentum southern valleys, just began other areas; barley 20% fair, 60% good, 20% excellent. Irrigated, dryland wheat fair to excellent, planting neared completion major production areas. Irrigated grain sorghum 29% fair, 57% good, 14% excellent; light harvest activity began. Dryland sorghum 34% fair, 33% good, 33% excellent; good yields still anticipated. Corn 33% fair, 50% good, 17% excellent; harvest activity continued; above average yields. Pecans 25% fair, 75% good; preparation for harvest continued. Lettuce 100% good, harvest activity continued. Red chili harvest began, crop fair to good. Cattle 11% fair, 78% good, 11% excellent; movement of cattle continued. Sheep 86% good, 14% excellent. Range 22% fair, 67% good, 11% excellent; additional rains needed.

NEW YORK: Heavy snow eastern area on 4th dropped up to 20 in. Remainder of week mild, precipitation near to above normal. Snowstorm eastern area flattened corn and hay fields, caused extensive fruit loss and tree damage, knocked out power to many milk producers. Estimates of damage vary from relatively mild losses to 100% loss some areas.

Days suitable for fieldwork 4.0. Soil moisture surplus to excessive. Pastures, hay, corn good. Third cut alfalfa 72%, 75% 1986, 80% avg. Corn silage 58%, 43% 1986, 61% avg. Grain corn 9%, 8% 1986, 11% avg. Potato digging neared completion. Dry bean harvest delayed by wet field conditions.

NORTH CAROLINA: Temperatures averaged 6° below normal, mountain region; 1 to 3° below normal, Piedmont Region; near normal, coastal Plain Region. Temperature extremes 29°; 94°. Precipitation 0.05 to 1.85 in. across State.

Days suitable for fieldwork 5.7. Soil moisture 2% very short, 17% short, 80% adequate, 1% surplus. Flue-cured tobacco 91% harvested, 91% 1986, 96% avg. Burley tobacco 94% harvested, 96% 1986, 93% avg. Peanuts 4% poor, 46% fair, 50% good; 15% avg. Dug, 49% 1986, 38% avg.; 10% threshed, 30% 1986, 22% avg. Sorghum 48% harvested, 40% 1986, 44% avg. Sweetpotatoes 4% poor, 41% fair, 50% good, 5% excellent; 32% harvested, 31% 1986, 37% avg. Corn for silage 97% harvested, 93% 1986, 93% avg. Apples 23% fair, 77% good; 70% harvested, 70% 1986, 71% avg. Oats 11% planted, 9% 1986, 12% avg. Barley 14% planted, 9% 1986, 9% avg. Rye 16% planted, 14% 1986, 15% avg. Pasture 7% poor, 38% fair, 54% good, 1% excellent. Major farm activities: Harvesting tobacco, corn for grain and silage, cotton, sweetpotatoes, hay, peanuts, apples, sorghum, vegetables; defoliating cotton; preparing pastures; seeding small grains; curing, marketing tobacco; conservation work; tending livestock; disking stalks; general farm maintenance.

NORTH DAKOTA: Temperatures averaged 6 to 8° below normal. Extremes 9° west central, 84° northwest. Precipitation light, spotty.

Days suitable for fieldwork 6.9. Topsoil moisture below normal; 8% very short, 61% short, 31% adequate. Subsoil moisture near normal; 5% very short, 47% short, 48% adequate. Late season crops ahead of normal development. Sunflower 31% combined, 5% 1986, 13% avg.; soybeans 91% combined, 28% 1986, 49% avg.; corn grain 36% harvested, 6% 1986, 25% avg.; corn silage 96% cut, 82% 1986, 92% avg.; flax 96% combined, 53% 1986, 78% avg.; dry beans 95% combined, 59% 1986, 74% avg.; sugarbeets 89% lifted, 78% 1986, 53% avg. Pastures mostly fair to poor.

OHIO: Temperatures 4 to 11° below normal, daily lows in 20s, 30s; highs in 60s, 70s. Precipitation 0.44 to 1.46 in.

Days suitable for fieldwork 4.9. Soil moisture 36% short, 57% adequate, 7% surplus. Potatoes 81% dug. Fall apples 70% harvested. Grapes 65% harvested.

OKLAHOMA: Temperatures averaged 7° below normal southeast to 11° below normal north central. Precipitation averaged none west, south to 0.08 in. northeast.

Days suitable for fieldwork 6.3. Topsoil moisture 10% short, 85% adequate, 5% surplus. Subsoil moisture 5% short, 95% adequate. Wheat 10% fair, 90% good; 75% planted, 60% 1986, 60% avg.; 45% emerged, 40% 1986, 30% avg. Reseeding after previous week's heavy rains north central. Sorghum 1% poor, 15% fair, 60% good, 24% excellent; 85% mature, 70% 1986, 85% avg.; 15% harvested, 15% 1986, 25% avg. Late week frost reduced crop moisture content. Harvest will accelerate. Cotton 20% fair, 60% good, 20% excellent; 60% open bolls, 45% 1986, 75% avg.; 1% harvested, none 1986, 5% avg. Late maturing cotton lightly damaged. Warm October needed for minimal crop losses. Pastures, livestock good. Cattle marketings, prices down slightly from previous week.

OREGON: Unseasonably warm temperatures statewide. Readings 6° above normal. Temperatures up to 10° above normal south coast, south central areas. Low temperatures teens, 20s east on 10th. No precipitation.

Soil moisture 100% short. Fall seeding hampered by lack of moisture. Barley 32% seeded. Ryegrass planting underway, but slow. East Willamette Valley sod webworm problems in fine fescue field. Final hay cuttings east. Silage corn harvest complete Jackson County. Filbert growers favorable harvest weather, good crop. Grape harvest nearly completed west. Potato harvest well underway all areas, substantial percentage of number ones Deschutes County. Onion harvest completed Jackson County. Cole crop hurt by dry weather, where irrigation sparse. Some sweet corn harvested Jackson County. Livestock fair to good west, good east. Range, pasture hurt by dry weather, fair. Shortage of forage forecast for Wallowa County, dryness increased forest fire danger.

PENNSYLVANIA: Precipitation near normal, occurred mainly near midweek. Unseasonably cool. Average temperature 49° 6° below normal. Temperature extremes 23°; 74°. Average precipitation 0.73 in. 0.05 in. above normal.

Days suitable for fieldwork 3.0. Soil moisture 49% adequate, 51% surplus. Corn 85% mature, 83% 1986, 73% avg.; 21% harvested, 18% 1986, 12% avg. Corn 2% very poor, 10% poor, 24% fair, 39% good, 25% excellent. Ensilage corn 77% harvested, 80% 1986, 78% avg. Soybeans 1% very poor, 9% poor, 27% fair, 43% good, 20% excellent. Potatoes 76% harvested, 88% 1986, 87% avg. Third cutting alfalfa 80%, 98% 1986. Fourth cutting alfalfa 44%, 68%

1986. Quality of hay fair to poor. Amount of feed being obtained from pastures above average to average. Apples 67% harvested, 77% 1986. Grapes 79% harvested, 76% 1986. Fall plowing 75%, 84% 1986. Winter wheat 59% planted, 69% 1986. Barley 87% planted, 89% 1986. Activities: Harvesting hay, haylage, corn for grain and silage, soybeans, fruit, potatoes, other vegetables; seeding wheat, barley; hauling manure; spreading lime, fertilizer; installing conservation practices; machinery maintenance, caring for livestock.

PUERTO RICO: Island average rainfall 1.67 in., 0.16 in. below normal. Highest weekly total rainfall 8.47 in. Toro Negro, 4.85 in. Lares, 4.31 in. Mayaguez. Highest 24-hour total 2.97 in. Mayaguez. San Juan mean temperature 83°, 1° above normal. Total rainfall 0.48 in., 0.85 in. below normal. Divisional temperature averaged about 81 to 83° on coasts, 74 to 77° interior, mean station temperature 67° Pico Del Este-Luquillo to 84° San Juan. Lowest minimum temperature 53° Pico Del Este-Luquillo. Highest maximum temperature 94° several places.

SOUTH CAROLINA: Temperatures averaged 5 to 7° below normal. No rainfall. Early frost.

Days suitable for fieldwork 6.2. Soil moisture 19% very short, 55% short, 26% adequate. Cotton 96% open bolls, 97% 1986, 94% avg.; 53% harvested, 26% 1986, 39% avg.; 3% very poor, 28% poor, 69% good. Soybeans 62% leaves turning, 73% 1986, 72% avg.; 27% leaves shedding, 38% 1986, 39% avg.; 17% mature, 31% 1986, 18% avg.; 1% very poor, 2% poor, 45% fair, 52% good. Corn fair; 94% harvested, 96% 1986, 95% avg. Peanuts fair to good; 42% harvested, 25% 1986, 55% avg. Pastures fair to good. Small grains fair to good. Livestock fair to good.

SOUTH DAKOTA: Average temperatures normal to 9° below normal. Extremes 11°; 89°.

Days suitable for fieldwork 6.1. Topsoil moisture short most of State excluding an adequate area that extends along length of State for border counties northeast, east central districts, for much southeast; 23% critically short, 60% short, 17% adequate. High winds, dry weather caused rapid drying of row crops. Some areas ears knocked off from high winds. Corn borers, greenbugs, aphids problem fall seeded crops. Fall seeded crops need rain. Row crop harvest continued ahead of normal, corn 12 days ahead, soybeans 22 days ahead, sorghum 23 days ahead, sunflowers 15 days ahead. Row crops mostly good. Winter wheat, rye mostly fair to good.

TENNESSEE: Temperature 6 to 13° below normal. Extremes 30°; 83°. Little or no precipitation.

Days suitable for fieldwork 5.9. Soil moisture 28% very short, 56% short, 16% adequate. Corn grain 85% harvested, 70% 1986, 50% avg. Burley 16% stripped, 10% 1986, 12% avg. Winter wheat 25% seeded, 20% 1986, 20% avg. Cattle, pastures mostly fair.

TEXAS: Weather generally pleasant since ridge of high pressure prevented showers from developing. Series of cold fronts moved into State; only brought cold, dry air. Few record low temperatures set across northern, western areas. Precipitation, temperatures below normal.

Crops: Corn harvest active Plains. Most yields good. Lodging still concern many fields. Grain sorghum harvest increased good pace Plains, Cross-Timbers open weather. Yields good. Some fields behind maturing, harvest continued late into season. Harvest virtually complete some areas. Sorghum 100 turning color, 97% 1986, 99% avg. Cotton Plains maturing during day while temperatures warm. Cooler temperatures night

slowed process. Some producers applied opening enhancers. Some light harvest underway Low Plains. Many producers Low Plains, Cross-Timbers applied defoliant. Harvest Blacklands winding down, good yields. Most harvest completed central, east. Harvest increased Trans-Pecos. Small grain seeding increased, open weather. Fields emerging good shape most areas; some fields need rain to aid emergence. Some light grazing available soon Plains. Soybean harvest good start Plains many fields still maturing. Early yields good. Harvest continued Coast, yields low. Peanut harvest began Plains, Cross-Timbers. Early yields good. Harvest continued central, south, good weather. Some yields south affected by disease. Other field crops: Peanuts 18% harvested, 28% 1986, 28% avg. Pecans 3% harvested, 14% 1986, 3% avg. Soybeans 33% harvested, 37% 1986, 24% avg. Sugarbeets 12% harvested, 11% 1986, 16% avg. Sunflowers 37% harvested, 26% 1986, 38% avg. Oats 50% planted, 55% 1986, 46% avg.

Commercial Vegetables: Rio Grande Valley peppers, cabbage, carrots, tomatoes good progress. Onion planting just begun. Citrus harvest increased. Cooler weather, previous rain increased sizes. Fruit quality good. San Antonio-Winter Garden fall planting continued. Spinach, carrots, cabbage good. Cucumbers being harvested. Prospects all vegetables good. High Plains pepper harvest continued, excellent yields. Carrot harvest continued. Some pumpkins harvested. Trans-Pecos pepper harvest full swing. Late watermelon harvest almost finished. Pecan harvest increased, quality better than expected. Nuts continued to open many areas. Trans-Pecos harvest to begin soon.

Range and Pasture: Ranges, pastures look good; many areas becoming stressed for moisture. Last cutting hay east. Small grains emerging, provided some grazing. Stockers arrive Plains. Most livestock good. Hornflies affected some cattle.

UTAH: Precipitation none. Temperature minimums normal to 6° above normal. Maximums 9 to 11° above normal.

Days suitable for fieldwork 6.7. Soil moisture 62% short, 38% adequate. Winter wheat 92% seeded, 86% 1986, 77% avg. Corn 78% mature, 77% 1986, 80% avg. Corn silage 85% harvested, 74% 1986, 70% avg. Apples 55% harvested, 80% 1986, 50% avg. Onions 96% harvested, 68% 1986, 64% avg. Potatoes 84% harvested, 64% 1986, 57% avg. Alfalfa 3rd cutting neared completion central, north; 4th cutting neared completion south, underway central. Cattle from summer range 46% moved, 57% 1986, 47% avg. Sheep 42% moved, 62% 1986, 54% avg. Livestock good to excellent. Winter range needs rain. Major farm activities: Silage harvest, hauling hay, moving livestock, vegetable, fruit harvests.

VIRGINIA: Cool period, temperatures averaged 9° below normal. Light frost many areas, hard frost some high elevation areas; range 24 to 74°. Precipitation averaged 0.50 in.

Days suitable for fieldwork 4.8. Topsoil moisture 11% short, 84% adequate, 5% surplus. Grain corn 72% harvested, 59% 1986, 62% avg. Silage 94% harvested, 91% 1986, 94% avg. Soybeans poor to fair, very little acreage harvested. Peanuts 54% dug, 94% 1986, 78% avg. Peanuts 32% combined, 80% 1986, 62% avg. Flue-cured tobacco 88% harvested, 88% 1986, 96% avg. Some frost damage higher elevations. Burley 99% harvested, 99% 1986, 99% avg. Fall hay harvest active. Pastures good to excellent, reseeding active. Apples 73% harvested, 76% 1986, 76% avg. Wheat 19% seeded, 10% 1986, 18% avg. Barley 50% seeded, 36% 1986, 48% avg. Oats 61% seeded, 53% 1986, 61% avg. Buying, selling cattle.

WASHINGTON: Basically same scenario as past several weeks. High pressure, off shore winds kept region warm, dry. Record temperatures experienced again, western area. Eastern area colder valleys lows in upper 20s, 30s.

Days suitable for fieldwork 7.0. Winter wheat 76% planted, 87% 1986, 84% avg. Winter wheat 56% emerged, 66% 1986, 60% avg. Fourth cutting alfalfa winding down Grant County. Warm, dry weather allowed rare alfalfa 4th cutting Whitman County. Potatoes good; 75% harvested. Corn silage harvest continued Benton County, finished Grant County. Apple picking continued as major fruit harvest activity. Coloring of apples continued slow due to warm temperatures, some cullage. Sunburn, water core problems. Grape harvest continued Benton County. West of Cascades, growers irrigated strawberries, raspberries. Dry onion, sweet corn harvests mostly completed Grant County. Carrot harvest continued Columbia Basin, quality good. Westside, lettuce, cauliflower, cabbage, broccoli harvest continued. Range pasture 70% short, 30% adequate. Range forage scarce. Farmers, ranchers continued to move cattle to stubble, fall pastures. Hay, other roughage feed supplies 70% adequate, 30% surplus.

WEST VIRGINIA: Average temperature 50°. Extremes 20° Greenbank; 77° Williamson. Precipitation averaged 0.53 in.

Days suitable for fieldwork 3.6. Soil moisture 18% short, 82% adequate. Farm activities: Farm maintenance, harvesting corn, hay, tobacco, apples; livestock care. Corn, hay fair to poor. Apples

fair to good. Tobacco poor. Fall seeding progressed.

WISCONSIN: Temperatures averaged 43°, 8° below normal. Extremes 12°; 70°. Rainfall trace to 0.30 in. Second hard frost of season on 8th.

Days suitable for fieldwork 6.1. Soil moisture 23% short, 76% adequate, 1% surplus. Good week for harvest activities. Crops 2% poor, 9% fair, 78% good, 11% excellent. Corn for grain 38% harvested, 3% 1986, 8% avg. High moisture, harvest over 50%. Corn silo filling 93%, 34% 1986, 54% avg. Soybeans 46% harvested, 3% 1986, 12% avg. Yields excellent. Hay, feed supply for winter 12% short, 68% adequate, 20% surplus. North, east central 19 to 27% short. Fall plowing 23%, 9% 1986, 15% avg. Cranberry harvest down somewhat from expected; color, size good.

WYOMING: Another dry week. Temperatures generally above normal.

Days suitable for fieldwork 7.0. Topsoil moisture 93% short, 7% adequate. Corn 20% dented, 45% 1986; 75% mature, 50% 1986; 5% harvested, 5% 1986, 20% avg. Corn silage 95% harvested. Sugarbeets 45% dug, 40% 1986, 40% avg. Dry beans 95% windrowed, 40% 1986, 85% avg.; 85% combined, 85% 1986, 80% avg. Potatoes 85% harvested, 80% 1986, 80% avg. Winter wheat mostly good; most planted, 95% 1986, 95% avg.; 85% emerged, 90% 1986, 90% avg. Livestock movement to winter pastures continued. Hay supplies for wintering livestock adequate throughout State. Livestock good to excellent.

Global Weather Satellite Image

October 12, 1987



International Weather and Crop Summary

October 4 - October 10, 1987

HIGHLIGHTS:

UNITED STATES ... Ideal weather pushes row crop harvest toward completion in most of the Nation. Inadequate moisture slows winter wheat growth and inhibits seed germination in the central Great Plains, Delta, and the Southeast.

U.S.S.R. ... In Western U.S.S.R., dry weather helps fieldwork. In the New Lands, cold, wet weather continues to delay spring grain harvesting.

EUROPE ... Moderate to heavy rain falls across much of western and southern Europe, helping to increase pre-emergence soil moisture. Mostly dry weather elsewhere encourages rapid progress in late harvesting and fall planting.

SOUTH ASIA ... Northern India remains dry. Widespread rain benefits crops in the south.

N.W. AFRICA ... Moderate to heavy rain helps to recharge soil moisture reserves in the north while the south remains dry.

SOUTH AFRICA ... Light showers fall after heavier, early-season rain promotes fieldwork.

SOUTHEAST ASIA ... Substantial rain covers the region.

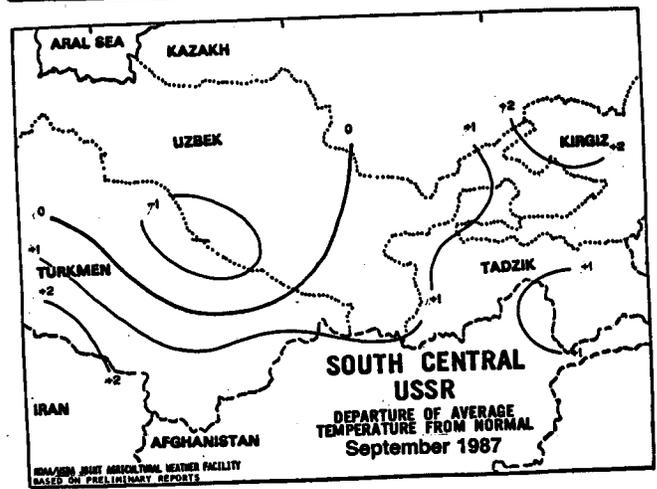
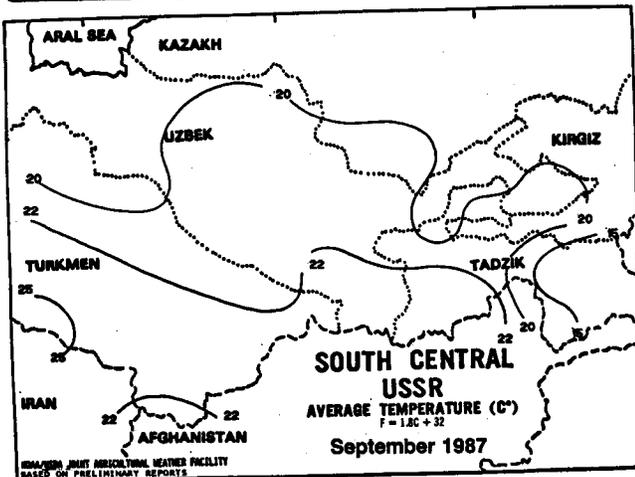
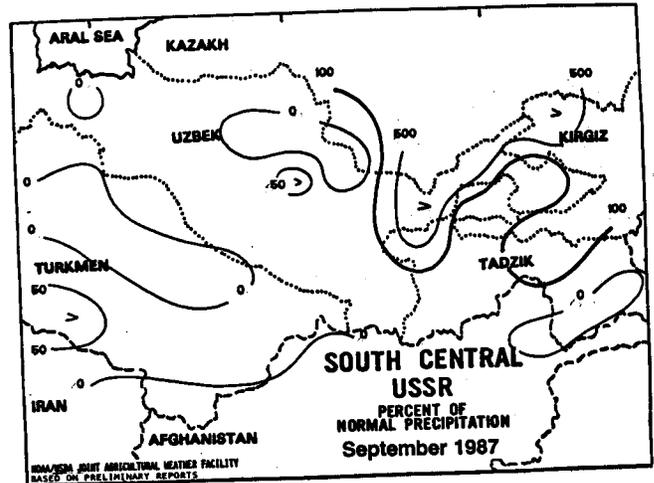
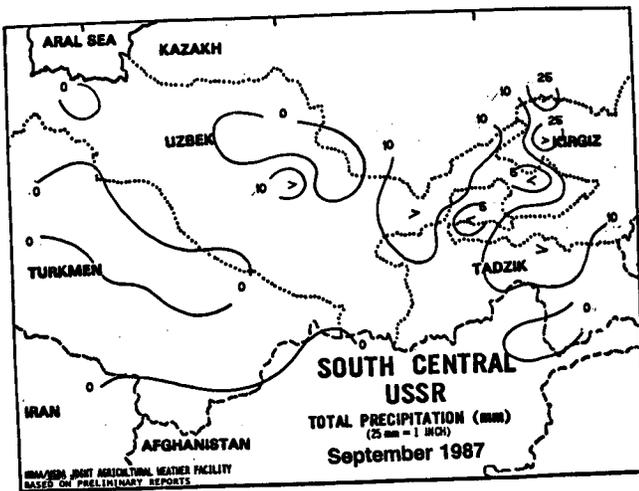
EASTERN ASIA ... Persistent dry weather over the North China Plain benefits summer crop harvesting but reduces topsoil moisture to unfavorably low levels for winter grain planting.

CANADA ... Mostly light snow and rain cover the Prairies. Heavier precipitation helps soil moisture recharge in Manitoba.

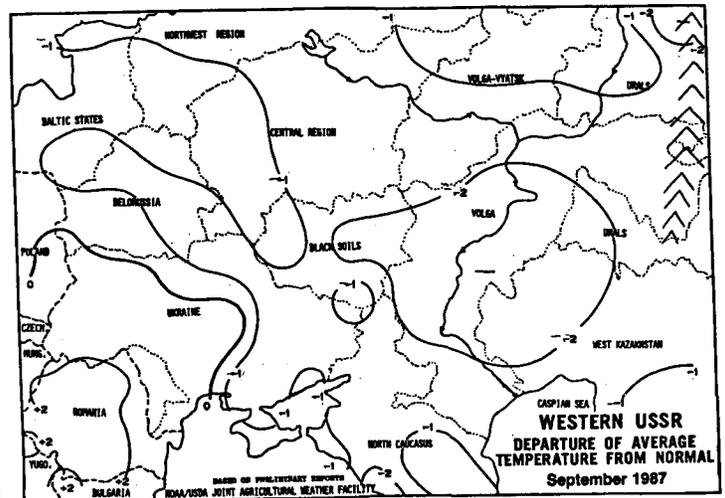
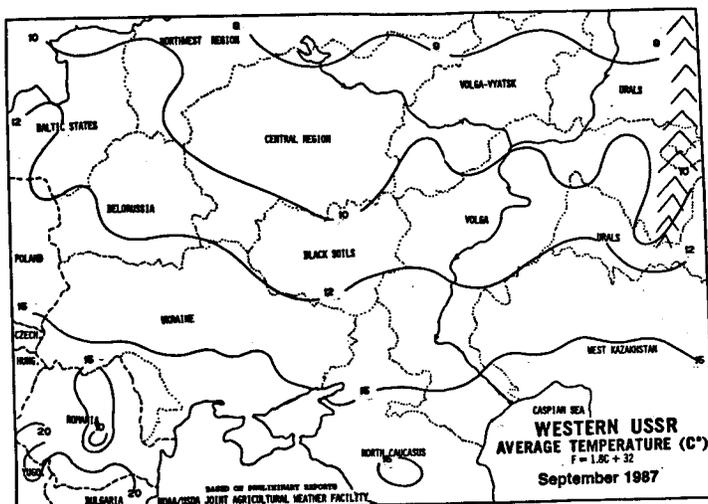
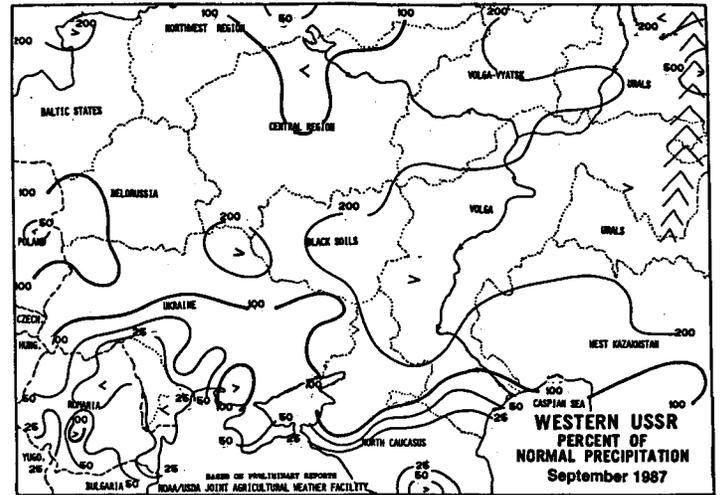
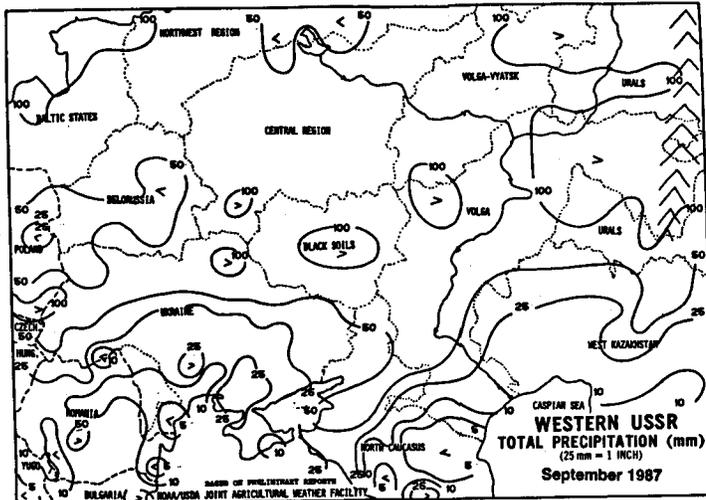
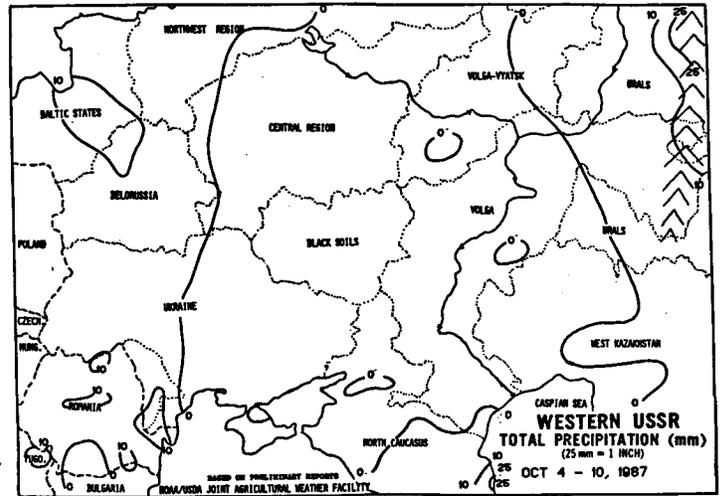
SOUTH AMERICA ... Beneficial showers favor early corn planting in Argentina. Favorably dry weather helps crop development in Brazil.

AUSTRALIA ... Light to moderate showers benefit crops in some southern production areas, but dry weather elsewhere reduces soil moisture levels to unfavorably low levels for reproductive grains.

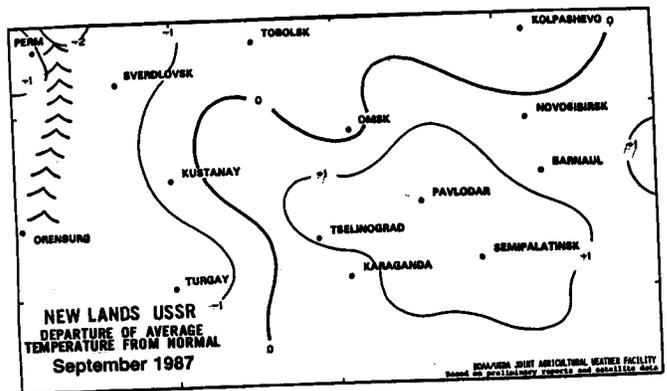
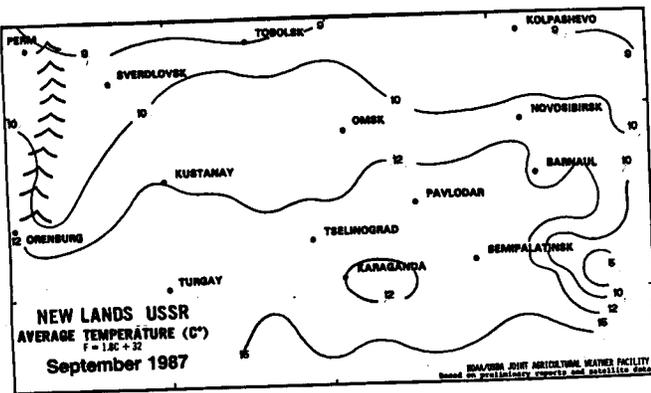
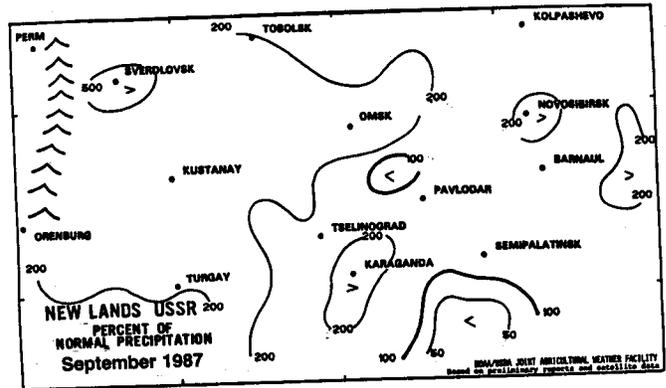
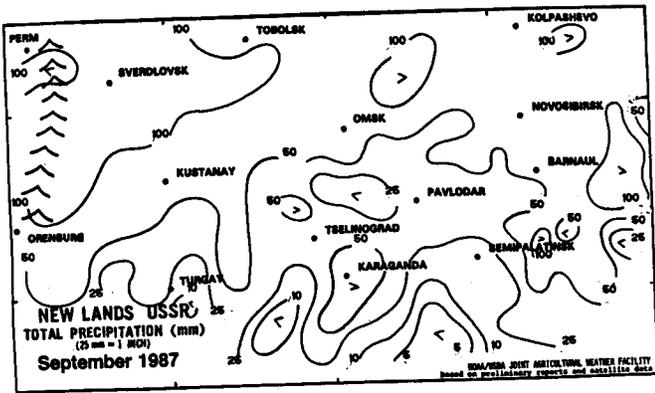
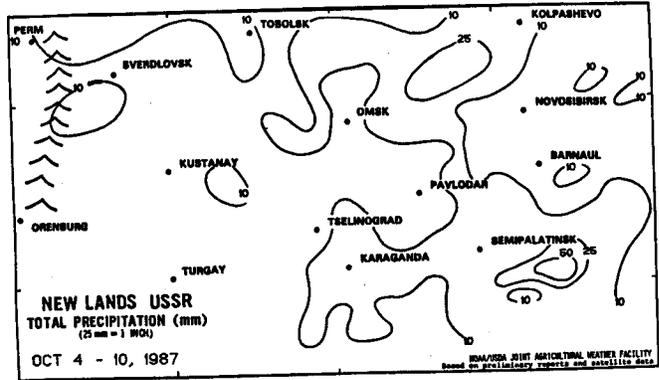
MEXICO ... Dry weather prevails, favoring crop harvesting and wheat planting.



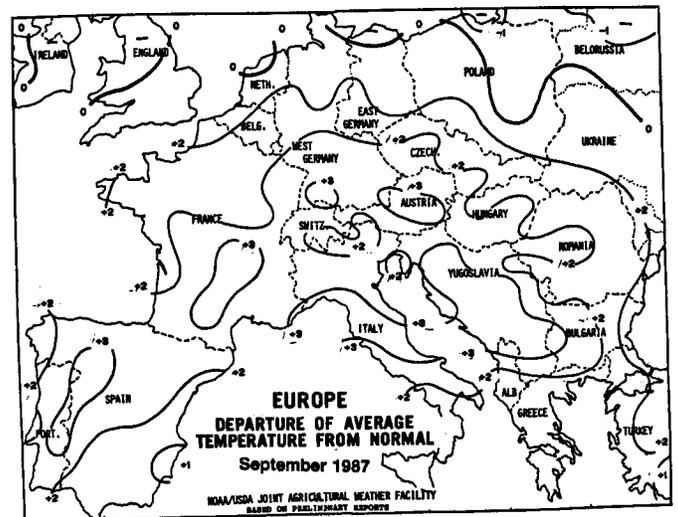
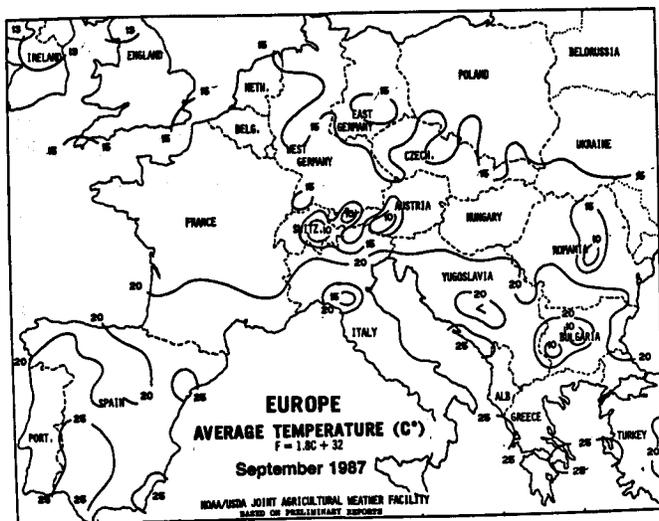
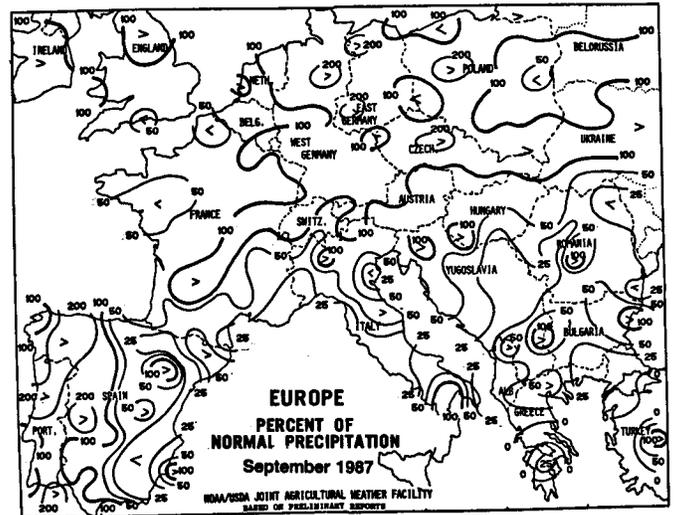
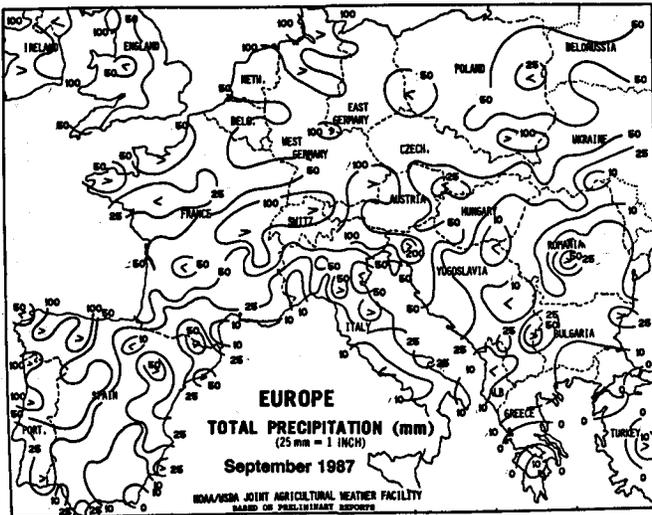
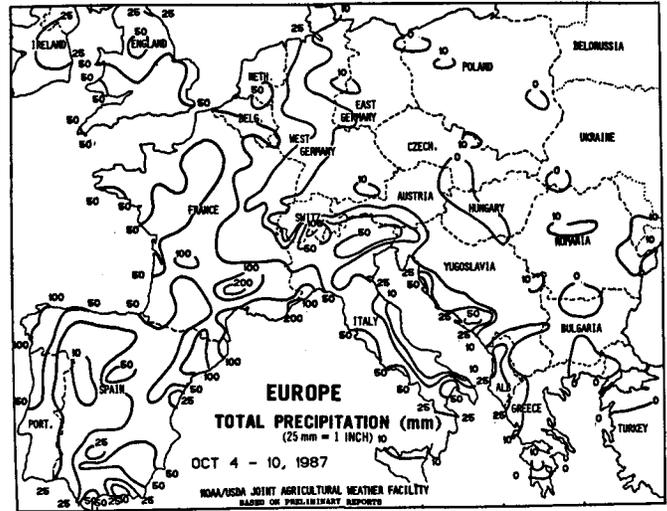
Western U.S.S.R. ... Winter grain planting was nearing completion. Corn, sugarbeet, and sunflower harvests were well underway. Dry weather and near- to above-normal temperatures favored crop maturation and helped fieldwork for winter grain planting and summer crop harvesting. Rain is needed in the southern Ukraine where below-normal September precipitation limited moisture conditions for winter grain establishment. In September, above-normal precipitation covered the Baltic States, Belorussia, the northern Ukraine, the Central Region, the Black Soils Region, the northern North Caucasus, the Volga, and the Volga Vyatsk, providing abundant soil moisture for winter grain emergence. September precipitation was below normal over the southern half of the Ukraine and the central North Caucasus, allowing winter grain planting to progress without delay. Corn harvesting was delayed in September because of late plantings and unseasonably cool weather during much of the growing season.



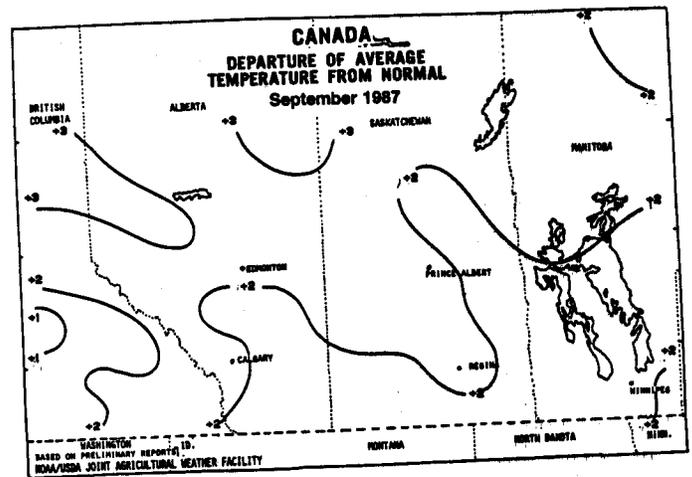
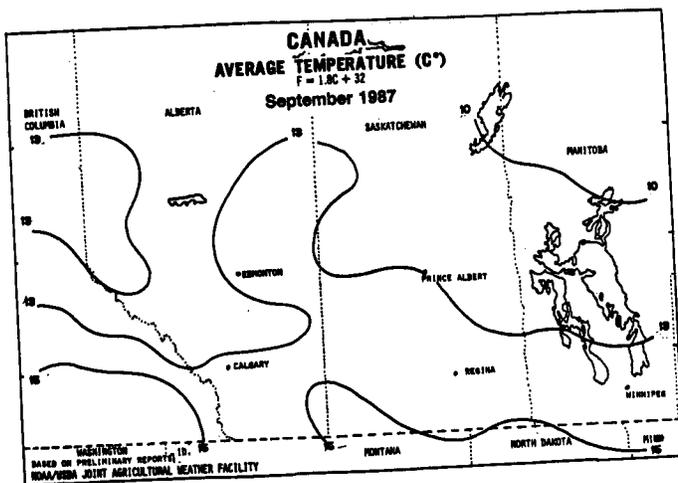
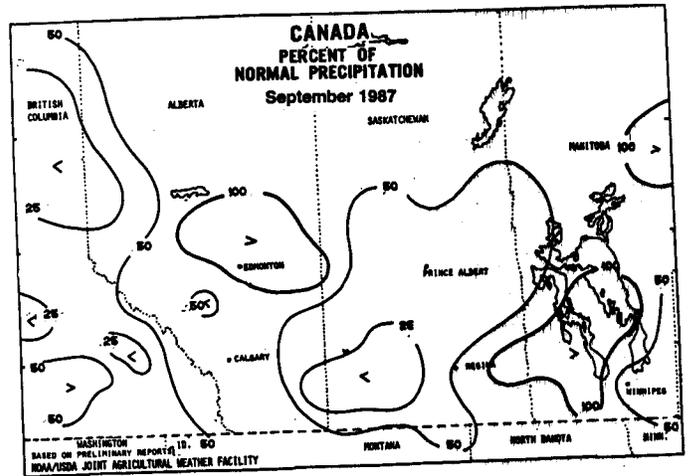
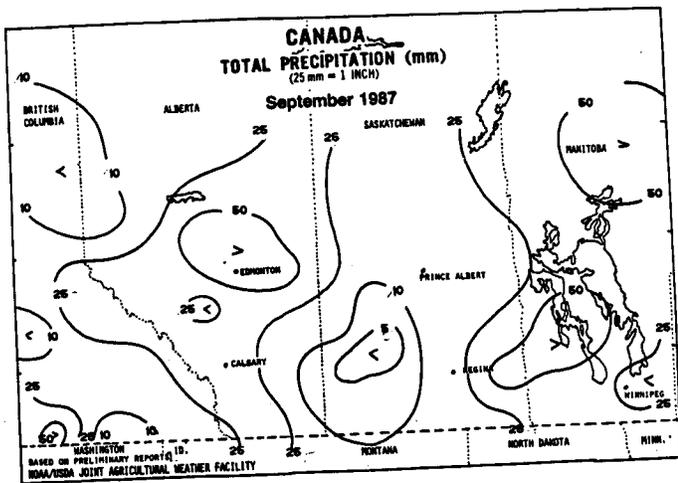
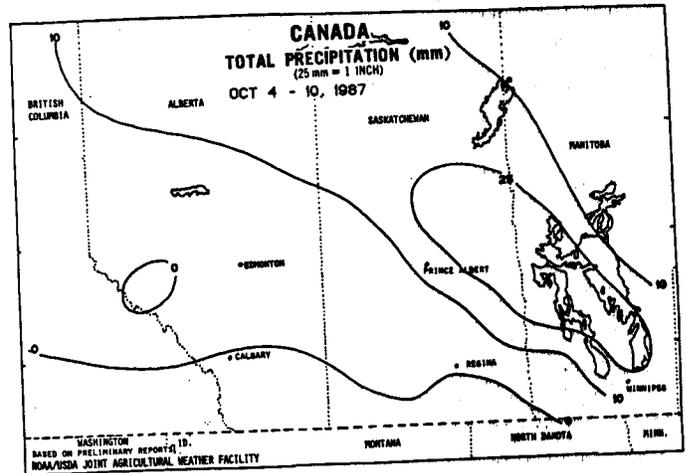
New Lands... Mixed rain and snow (10-30mm) over the Urals, Western Siberia, and northern Kazakhstan continued to delay spring grain harvesting. In September, persistent showers produced much-above-normal precipitation over most of the region, causing significant harvest delays. Two to five times the normal amount of rain fell over crop areas in the Urals, Western Siberia, and northern Kazakhstan, where harvest delays were the greatest. Weekly coverage of the New Lands will be suspended until next spring's planting season. In south-central U.S.S.R. cotton areas, mostly dry weather and seasonal September temperatures helped early cotton harvesting. This past week, rain showers and colder weather in eastern Uzbekistan and Tadzikistan may have caused some harvest delays.



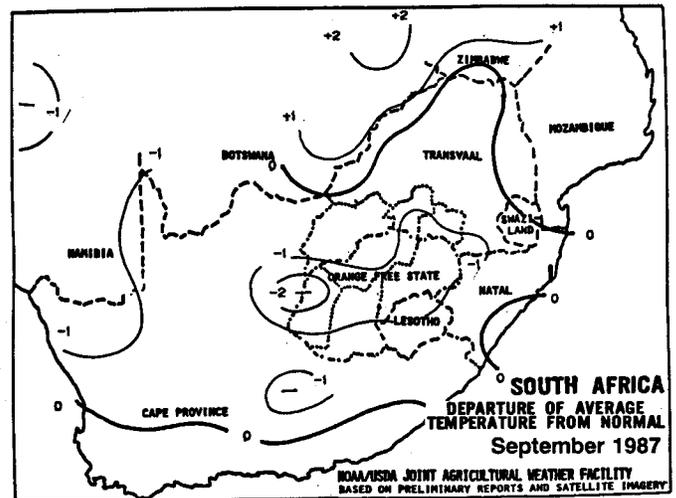
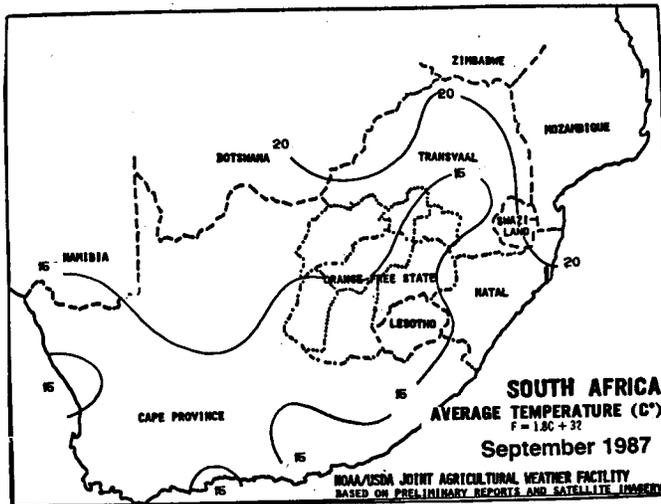
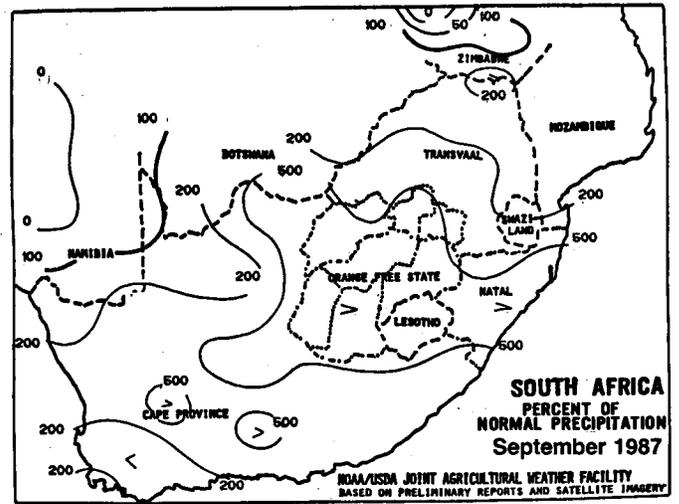
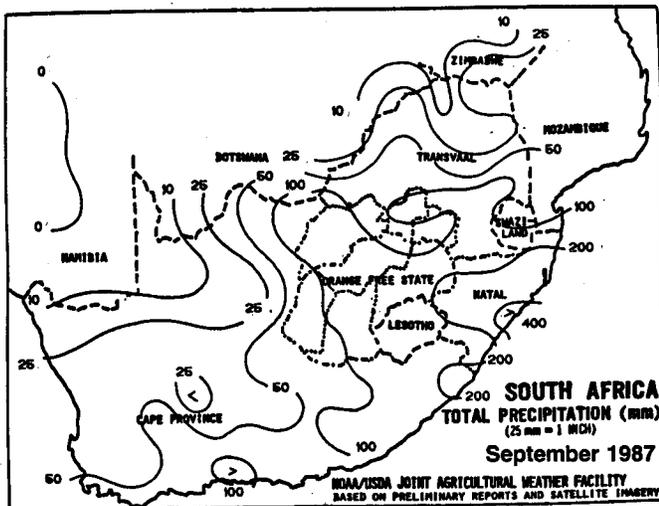
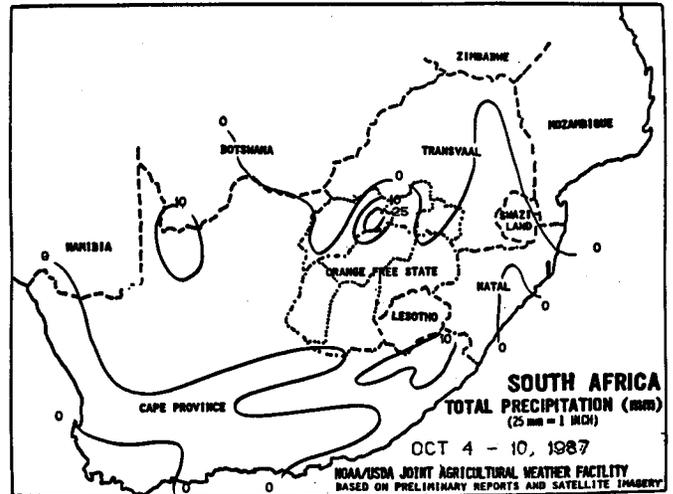
EUROPE ... Moderate to heavy rain (greater than 25mm) fell across many areas of western and southern Europe from the United Kingdom southward to Spain and Italy, delaying fall tillage activity but benefiting pre-emergence soil moisture levels. Locally heavy rain of 100mm or more in northern Spain and southern France may have caused temporary flooding. Precipitation patterns have shifted to the south over the past 2 weeks, after a wetter-than-normal September in much of northern and central Europe and below-normal rainfall in eastern Spain, western France, and scattered areas of southern Europe. Elsewhere, mostly dry weather continued for a second straight week over much of northern and eastern Europe from East Germany southward to Greece. The dry conditions allowed for rapid progress in fall planting operations. Cool temperatures and scattered frost in northern and eastern areas early in the period reversed a pattern of above-normal temperatures that covered most of Europe during September.



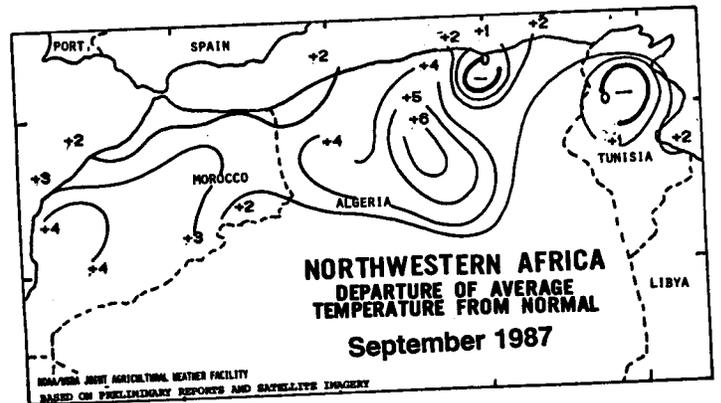
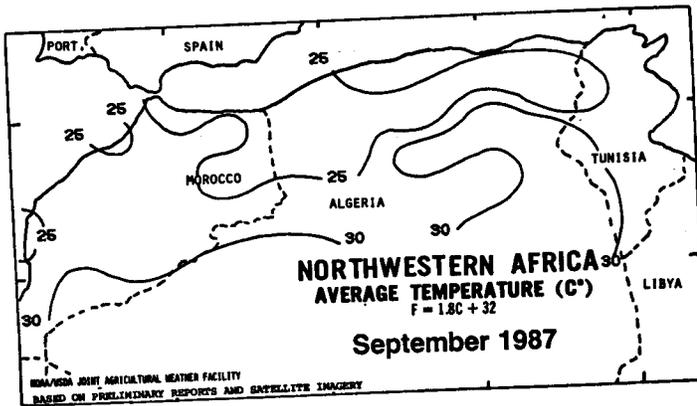
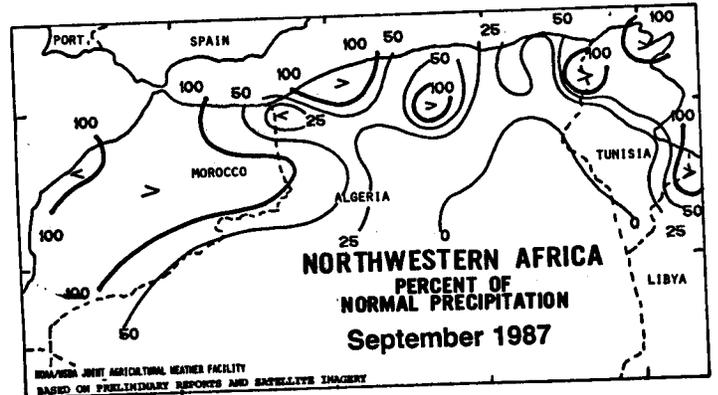
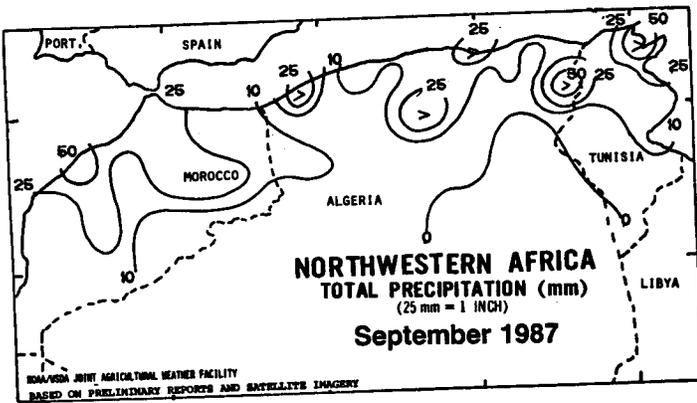
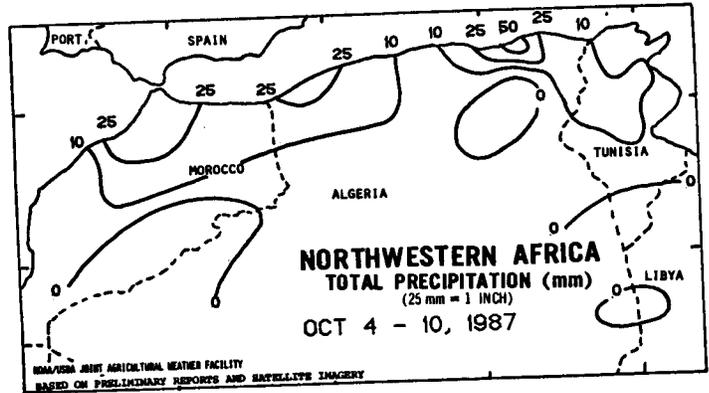
CANADA ... Light precipitation (6mm or less) covered Alberta, most of Saskatchewan, and extreme southwestern Manitoba. Heavier precipitation (10-38mm) fell in northeastern Saskatchewan and much of Manitoba. Snow accumulated in northern and eastern grain areas. The precipitation helped soil moisture recharge for next spring's planting season. Well-below-average September rainfall over much of Alberta and Saskatchewan allowed the grain and oilseed harvests to advance rapidly toward completion by month's end. The harvest was also in its final phase in Manitoba where near-normal September rains caused some delays during mid-month. With the harvest season coming to an end, weekly summaries will be discontinued until early spring. Monthly maps of precipitation and temperatures will continue routinely.



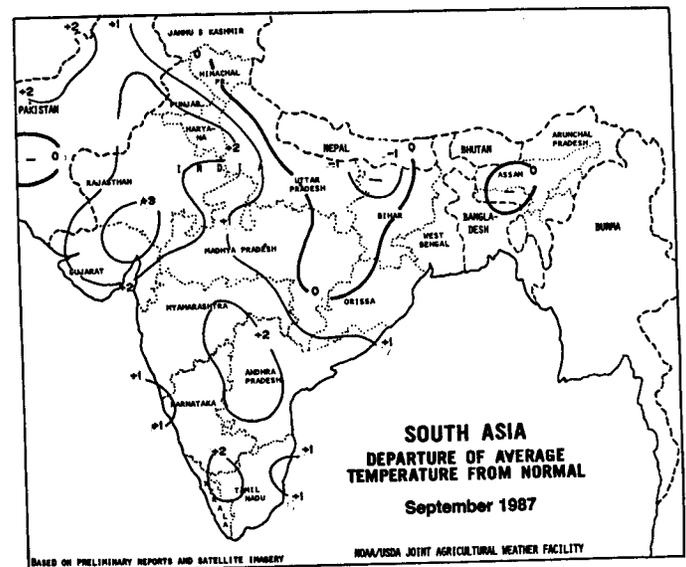
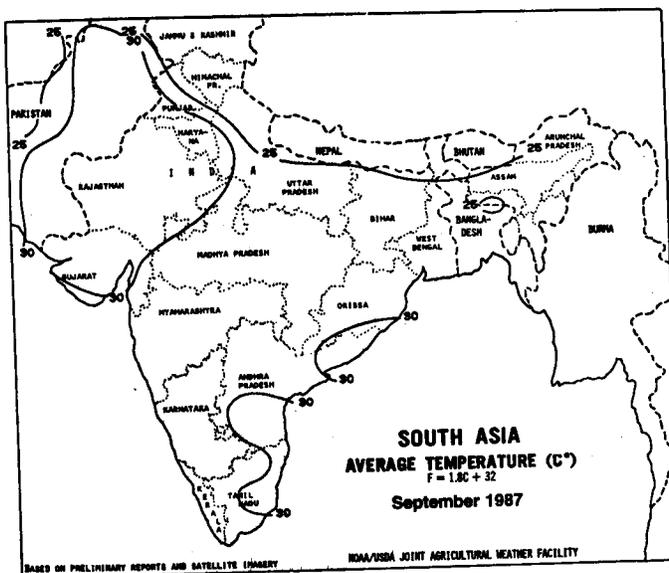
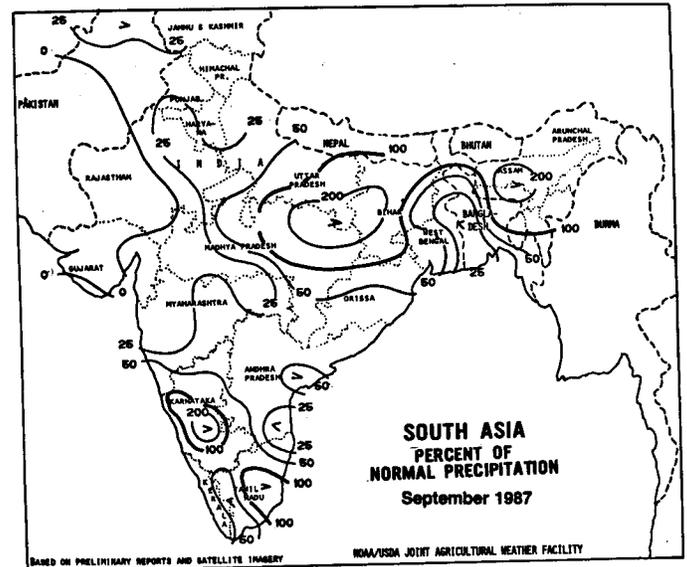
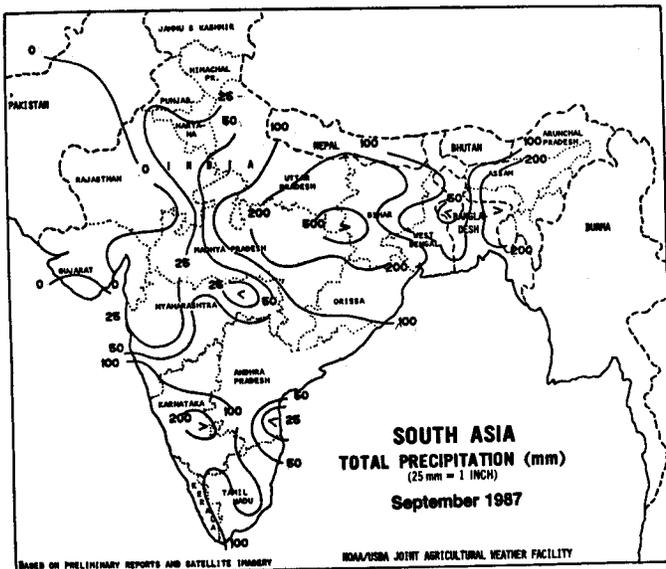
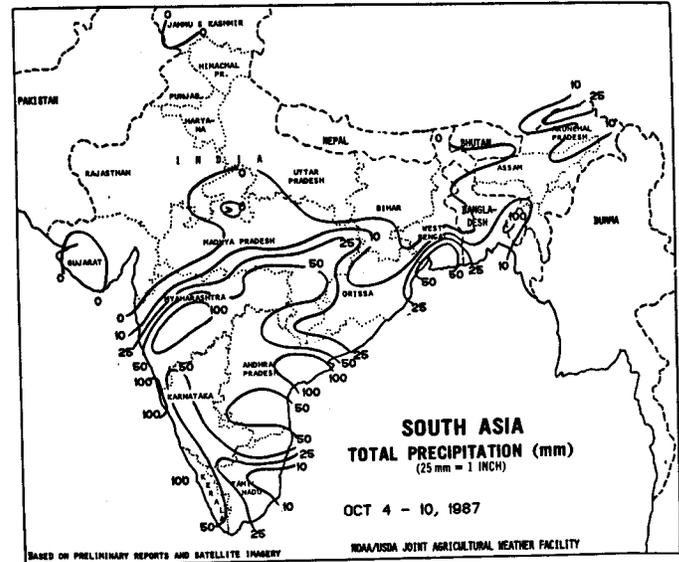
SOUTH AFRICA... Light showers (1-8mm) were scattered over the major corn producing region of the Maize Triangle, including the Orange Free State and the Transvaal. An isolated heavier shower (35mm) fell in the northern Orange Free State. September rainfall was well above average throughout the region with over 100mm of rain in the Maize Triangle and 200-400mm of rain in Natal to the east. The unusually heavy rain produced flooding in the eastern state of Natal. Planting normally takes place from October to December. Most of the corn production comes from the Orange Free State and southern Transvaal. The early-season rain has provided abundant pre-planting moisture for land preparation and early planting.



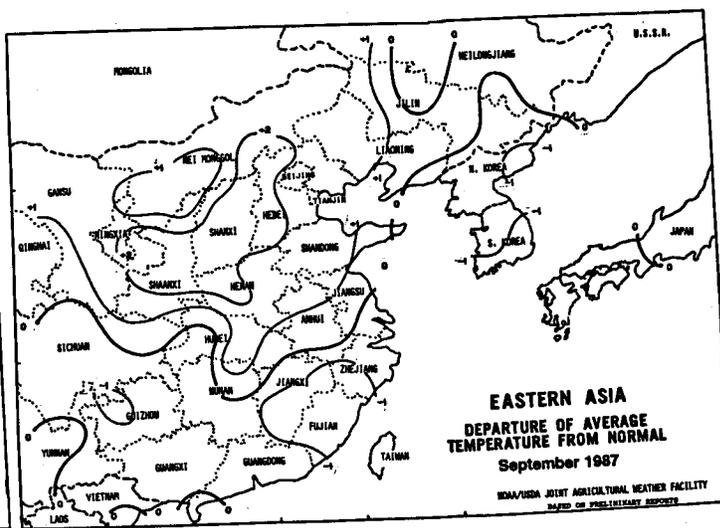
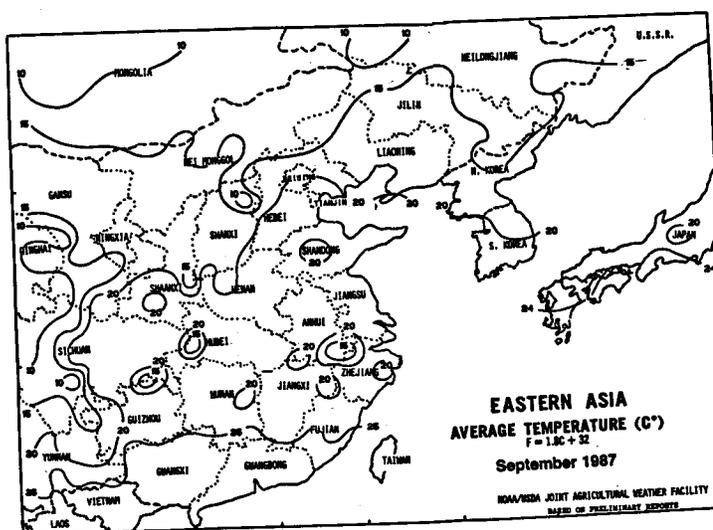
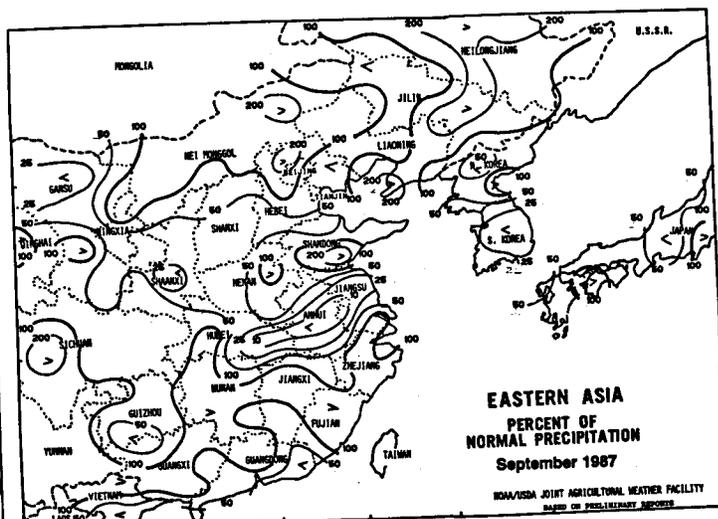
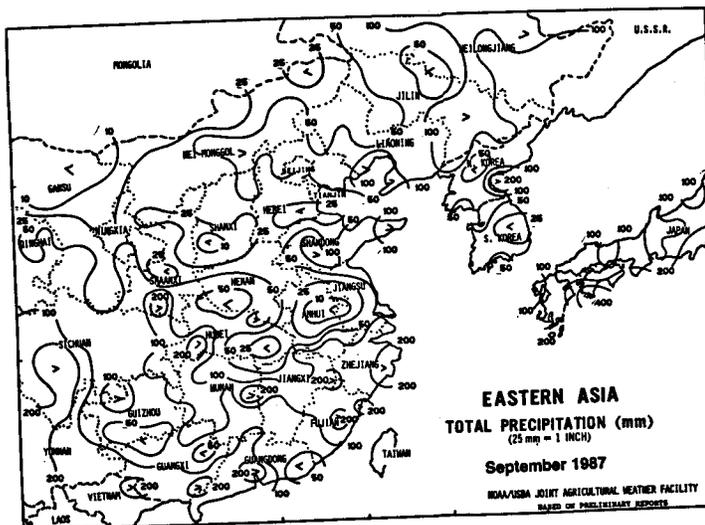
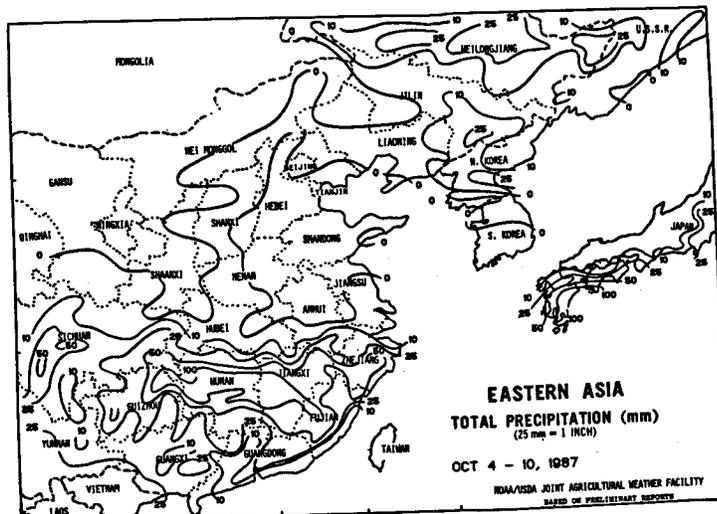
NORTHWESTERN AFRICA ... Moderate to heavy rain (up to 65mm) fell over many areas of northern Morocco, Algeria, and Tunisia, while southern areas remained dry. Planting of winter grains in the region normally corresponds to the onset of the rainy season in late October in the north and in November and December in the south. Normal-to-above normal rainfall in the north during September favored soil moisture recharge and should allow planting there late this month if the wet trend continues.



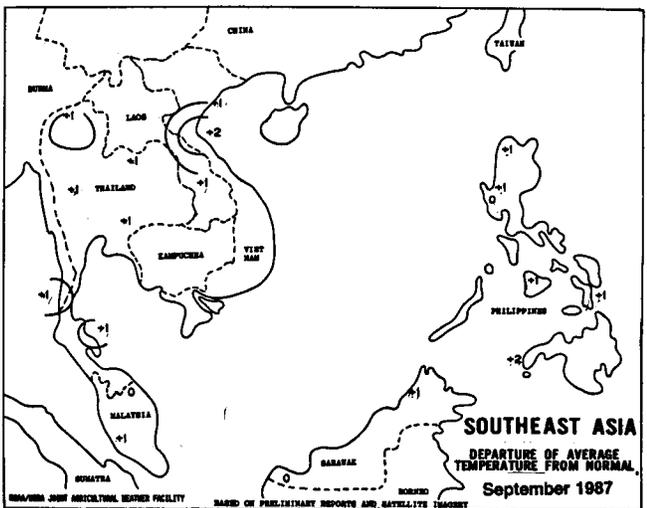
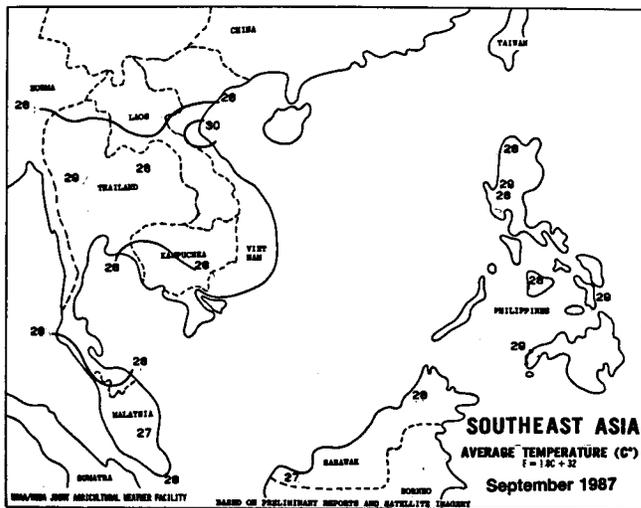
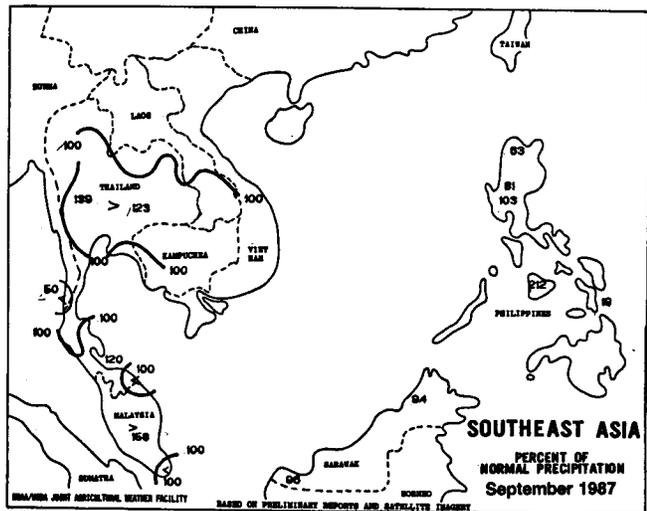
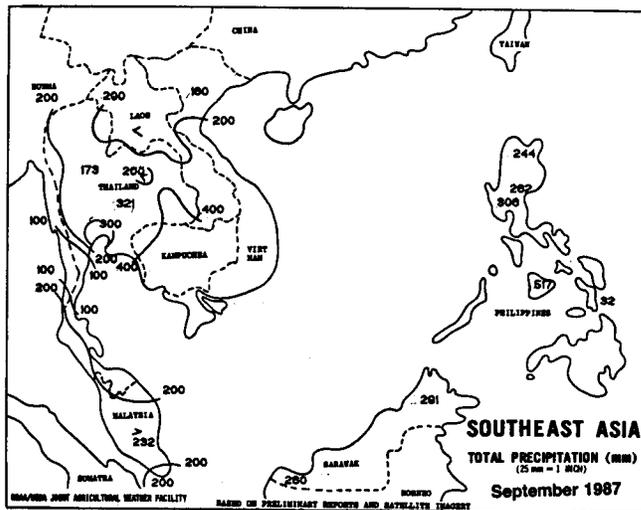
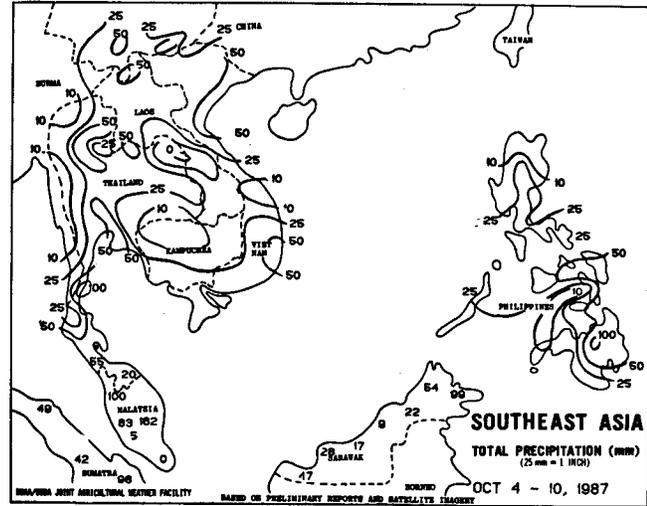
SOUTH ASIA ... The northern half of India remained dry while substantial rain fell over the south. Weekly rainfall averaged 50-135mm over southern Maharashtra, extreme southeastern Madhya Pradesh, Andhra Pradesh, Karnataka, and Kerala. Light showers (5-22mm) fell in Tamil Nadu. The moisture in the south benefited cotton flowering and groundnut pod filling. September rainfall was well below normal over much of this region with the exception of northern Karnataka and eastern Tamil Nadu where above-average rain fell. In the north, well-above-average rain was confined to eastern Uttar Pradesh, Bihar, and the far eastern states causing some flooding. Recent drier weather helped alleviate excessive wetness in Uttar Pradesh and Bihar. Dry weather continued in northwestern wheat areas extending into Pakistan where only light rain fell in September.



EASTERN ASIA ... Unseasonable warm, dry weather over the North China Plain continued September's below-normal rainfall pattern, favoring summer crop maturation and harvesting. However, the persistent dry weather has reduced topsoil moisture to unfavorably low levels for winter wheat planting in nonirrigated areas. In the Manchurian Valley, late-week widespread precipitation in Heilongjiang, continued September's above-normal rainfall pattern, causing some delays in summer crop harvesting. Below-normal precipitation continued to help harvesting in Jilin and Liaoning. In south-central China, heavy rain spread eastward across Guizhou, Hunan, and Jiangxi, benefiting late double-cropped rice in the filling stage. Dry weather since early September in South Korea helped summer crop harvesting and winter grain planting.

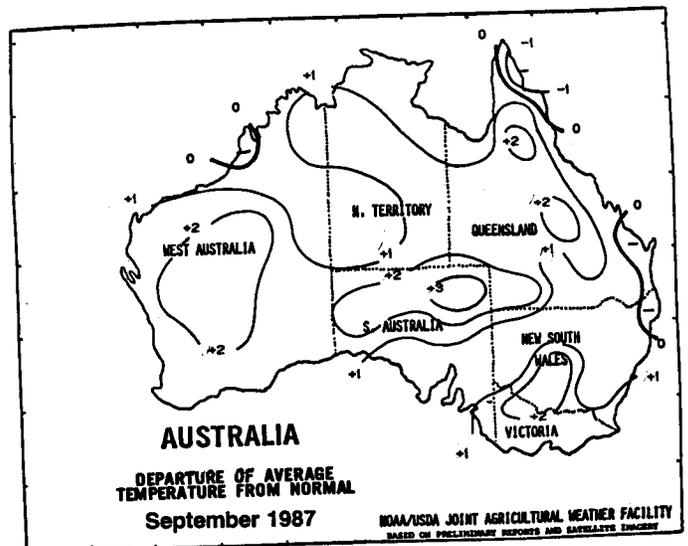
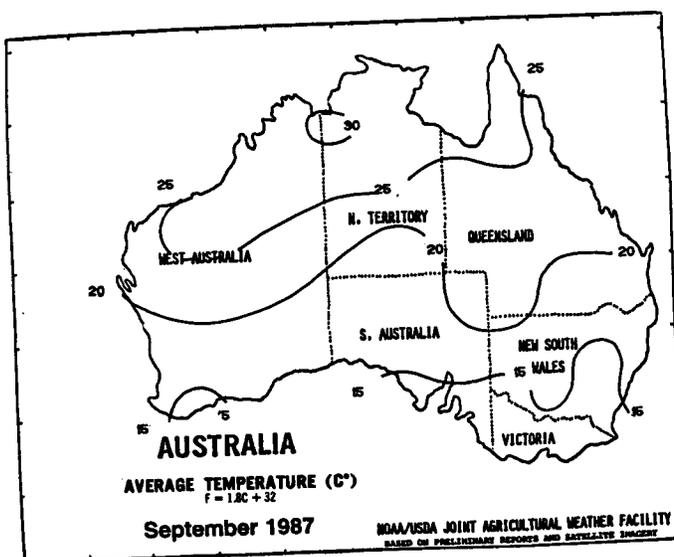
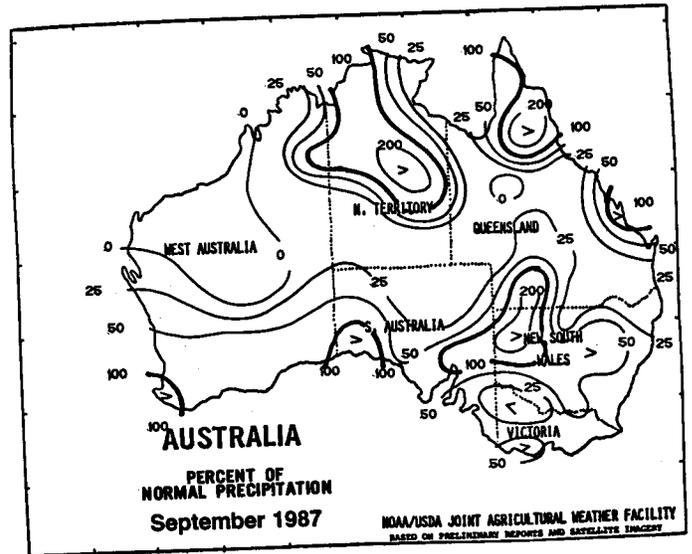
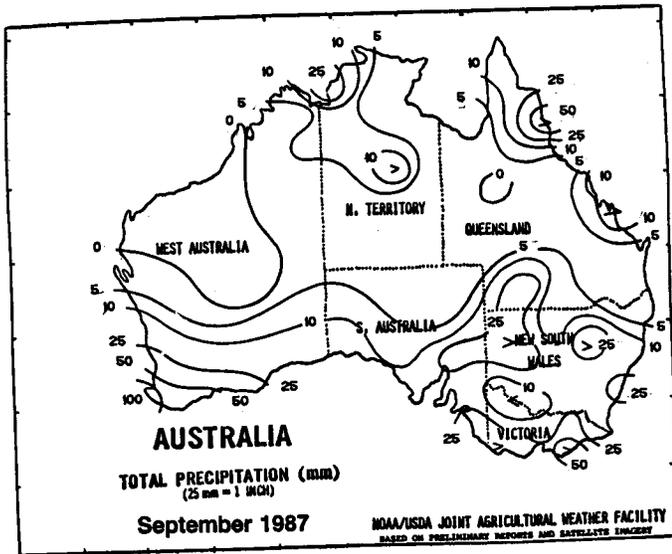
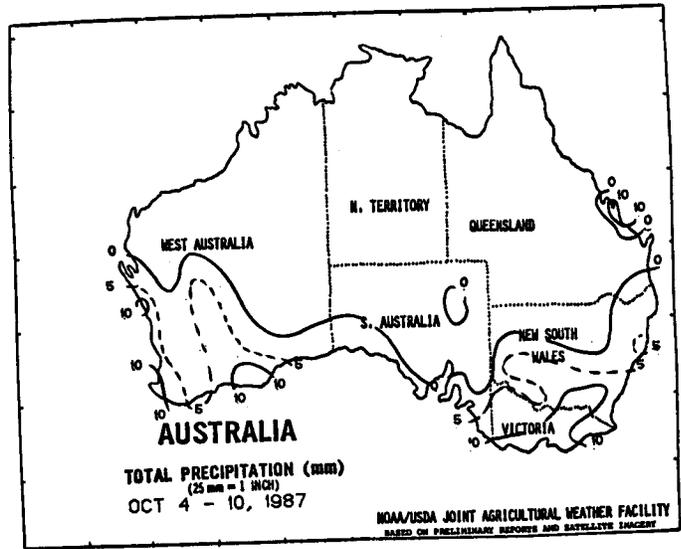


SOUTHEAST ASIA ...Substantial rain (20-87mm) fell over much of Thailand's northern highlands, central rice areas, and near Bangkok. The rain maintained adequate moisture for heading wheat. September rainfall was mostly near to above average throughout Thailand. Further south, locally heavy showers (50-162mm) covered the peninsula of Thailand and Malaysia, benefiting rice growth. Moderate to occasionally heavy showers also fell over most of Indonesia. Java remained mostly dry, however. In September, rainfall was near normal over most of this region, with the exception of northern portions of peninsula Thailand and Java, where monthly rainfall was below normal. Showers covered much of Kampuchea, Laos, and Vietnam during this past week. In the Philippines, mostly dry weather prevailed in northern Luzon, favoring corn harvesting. Widespread rain covered the remainder of the country.

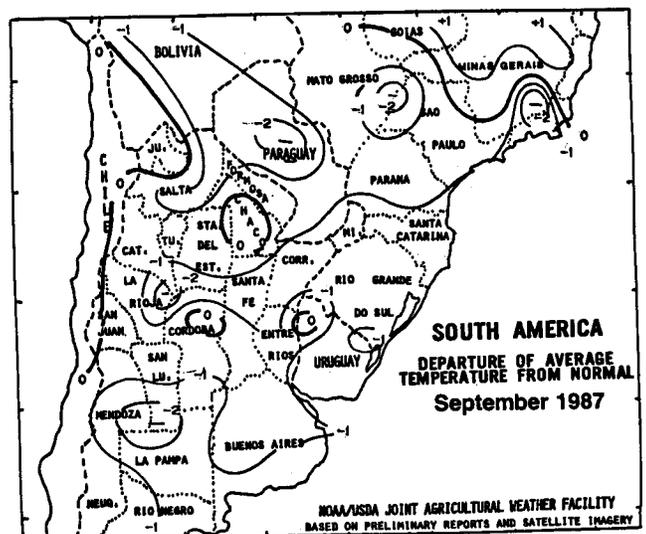
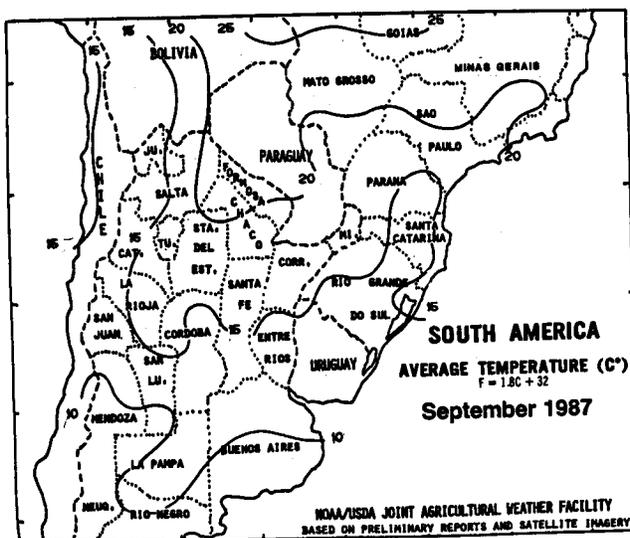
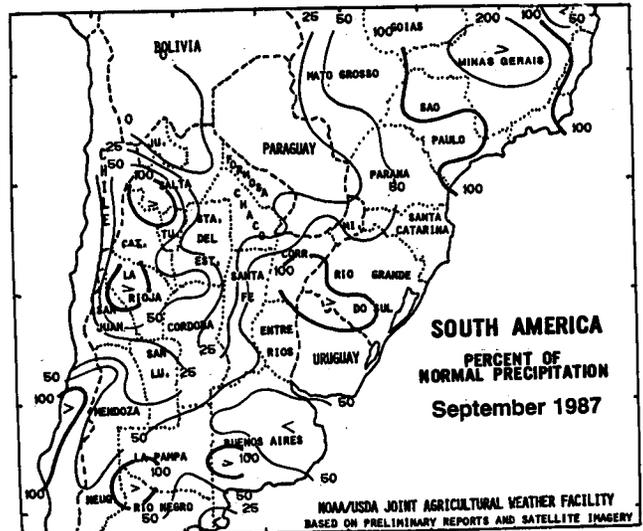
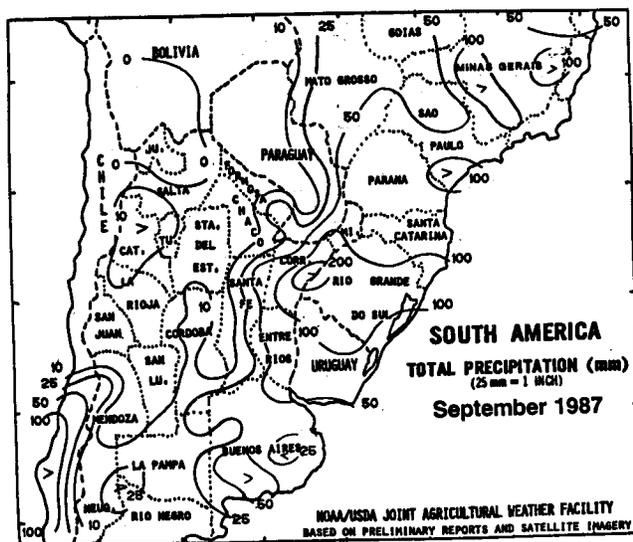
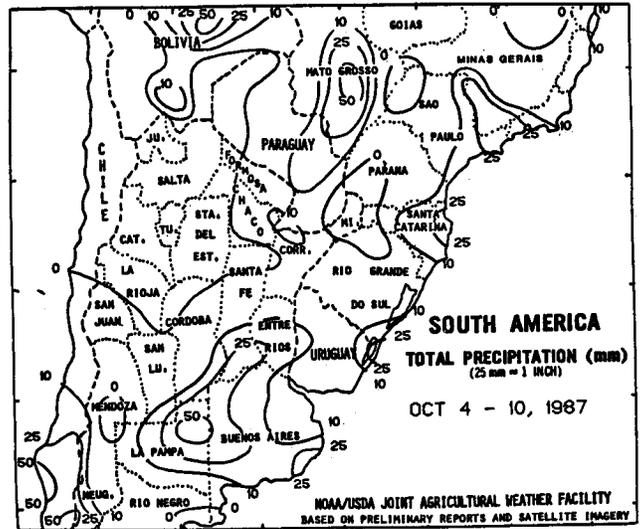


Oct. 14, 1987

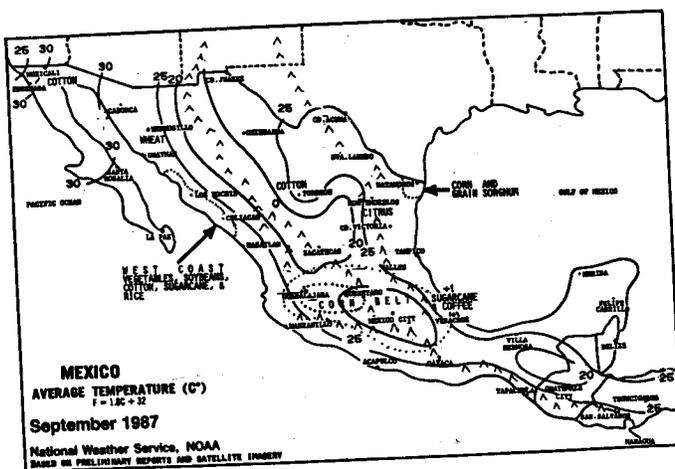
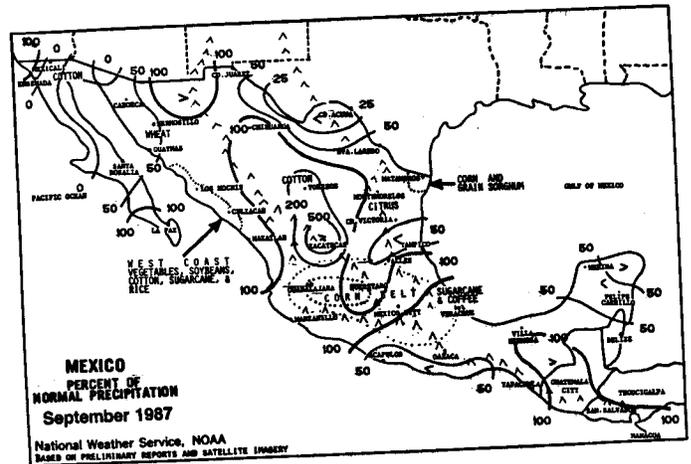
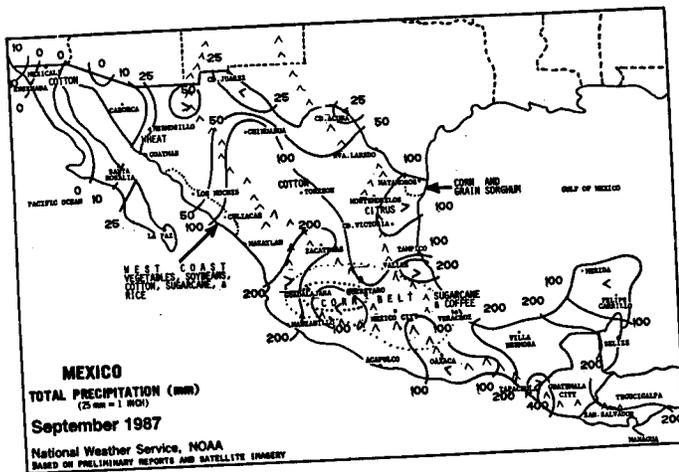
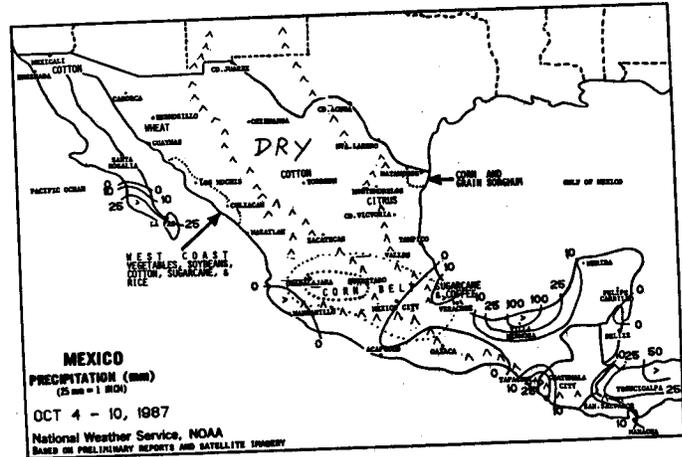
AUSTRALIA ... Light to moderate showers (less than 17mm) benefited wheat in the reproductive phase over production areas of Western Australia, Victoria, and New South Wales, while other areas remained dry. Rainfall for the period was largely below normal, as was the case in nearly all production areas during September. Above-normal temperatures during the past month acted to accelerate crop growth rates but also to enhance evaporative losses. The continuing warm, dry weather is becoming critical in areas of Western Australia and Queensland, where soil moisture reserves are abnormally low for crops during the period of maximum water usage.



SOUTH AMERICA ... In Argentina, beneficial showers (20-73mm) fell over eastern La Pampa, western Buenos Aires, and southern Santa Fe, improving moisture conditions for wheat heading and summer crop planting. Some light rain (4-9mm) fell in southern Cordoba, but that portion of the major summer crop area missed the heavier showers which fell to the east and south during the past 2 weeks. September rainfall was well below average throughout Argentina's major summer crop areas, reducing topsoil moisture reserves for planting. In Brazil, mostly dry weather in Rio Grande do Sul helped alleviate wetness following the previous week's heavy showers in the southwest. Wheat is filling to maturing in the south. Light showers (1-10mm) covered most corn areas of south-central Brazil with heavier rain confined to Mato Grosso do Sul and along the east coast from Santa Catarina to southeastern Minas Gerais. September rainfall was mostly below average in Brazil except in southern Rio Grande do Sul and Minas Gerais.



MEXICO ... Dry weather covered much of the country, favoring late cotton harvesting in the north, corn harvesting throughout the Southern Plateau corn belt, and wheat planting in the northwest. Locally heavy showers were confined to a relatively small area of southeastern Mexico along the Gulf coast. Light rain (1-6mm) fell over the Yucatan peninsula. September rainfall was mostly above normal from the northwestern mountains, through the north-central rangelands, into much of the Southern Plateau corn belt. The moisture helped irrigation reservoirs for wheat planting in the northwest and for crop development along the west coast. The west coast farming region has received below-normal rainfall, requiring substantial irrigation. Periodic dry weather allowed early crop harvesting, especially in the northeast. Below-average September rains provided at least marginally adequate moisture for corn development in the south.



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Heating Degree Days (Base 65° F.)

September 1987

ALA. Birmingham	0	134	0EIA, Okla. City	1
Mobile	0	171	Tulsa	194
Montgomery	0	15	OREG. Astoria	156
Montgomery	506	57	Burns	28
ALASKA, Anchorage	1094	86	Medford	65
Barrow	720	164	Pendleton	64
Fairbanks	720	69	Portland	64
Nome	246	119	Salem	73
ARIZ. Flagstaff	0	118	PA. Allentown	67
Phoenix	0	270	Erie	51
Tucson	12	124	Philadelphia	20
Winkler	0	247	Pittsburgh	61
Yuma	0	287	Scranton	119
ARK. Fort Smith	3	234	R.I. Providence	0
Little Rock	0	287	S.C. Charleston	0
CALIF. Bakersfield	0	106	Columbia	0
Eureka	226	168	Greenville	4
Fresno	0	179	Huron	146
Los Angeles	0	0	S. Dak. Aberdeen	110
Redding	0	0	Rapid City	147
Stockton	0	29	Sioux Falls	110
San Francisco	40	30	Sioux Falls	4
San Jose	110	12	Texarkana	15
COLO. Denver	34	134	Winnipeg	0
Grand Junction	43	180	Memphis	7
Pueblo	98	102	Nashville	0
CONN. Bridgeport	53	188	TEX. Abilene	18
Hartford	4	163	Amarillo	0
D.C. Washington	0	251	Beaumont	0
FLA. Apalachicola	0	152	Brownsville	0
Ft. Myers	0	171	Corpus Christi	0
Jacksonville	0	82	Del Rio	0
Key West	0	51	El Paso	0
Miami	0	189	Galveston	0
Orlando	0	162	Harlingen	0
Tallahassee	0	170	Houston	2
Tampa	0	221	Lubbock	2
GA. Atlanta	0	0	Midland	0
Augusta	0	45	San Angelo	0
Macon	0	111	San Antonio	0
Savannah	86	201	Victoria	0
IDAHO, Boise	35	46	Waco	0
Lewiston	144	2	Wichita Falls	104
Pocatello	13	154	UTAH, Milford	51
Pocatello	74	185	San. Petersburg	185
Chicago	84	21	VI. Burlington	11
Moline	68	21	VI. Lynchburg	0
Peoria	108	139	Norfolk	5
Rockford	44	138	Roanoke	18
Springfield	15	47	WASH. Colville	113
IND. Evansville	64	1	Quillayute	102
Fort Wayne	57	4	Seattle-Tacoma	186
Indianapolis	58	0	Spokane	136
South Bend	52	1	Walla Walla	112
IONA, Des Moines	127	0	Yakima	76
Suburban	80	199	W. Dak. Bismarck	37
Suburban	22	183	Charleston	25
W. Dak. Bismarck	24	177	Charleston	126
Dodge City	76	183	Huntington	91
Goodland	24	39	Madison	150
Topeka	7	53	WIS. Green Bay	204
Wichita	17	44	Milwaukee	146
Wichita	9	89	WYO. Casper	146
Wichita	0	118	Cheney	197
LA. Baton Rouge	0	0	Lander	197
Lake Charles	0	0	Sheridan	197
New Orleans	0	0		
Shreveport	0	0		

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