

WEEKLY WEATHER AND CROP BULLETIN

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

U.S. DEPARTMENT OF AGRICULTURE
Statistical Reporting Service
and World Agricultural Outlook Board

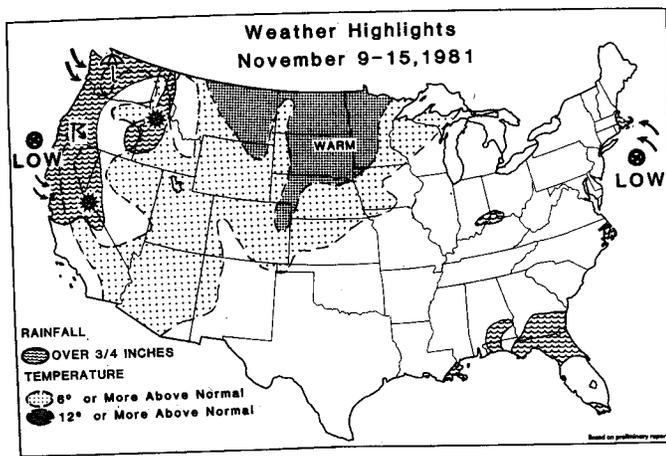
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Nov. 17, 1981

National Weather Summary

November 9-15, 1981



HIGHLIGHTS: An intense low pressure system off the west coast brought high winds, heavy rain (snow in the mountains) and a few thunderstorms from south-central California through Washington. Light showers reached through the Plateau to the northern Rockies. Across the Nation, another low pressure system deepened off the Carolina coast and spread rain from the mid-Atlantic coast through the New England coast as it moved northward. Early in the week, a storm in the Gulf of Mexico brought showers to the Southeast. Above-normal temperatures dominated the West and northern Plains, while eastern readings were near or below normal.

MONDAY...A few light showers fell from the Ohio Valley to southern New England, and a low pressure center, moving eastward through the northern Gulf of Mexico, triggered showers from the lower Mississippi Valley through the Southeast. Rather brisk northwesterly winds, from New England to Texas, were ushering in much colder air. Morning low temperatures dropped into the twenties and below through the northern and parts of the central Plains. Dalhart, Tex., in the northern Panhandle, dropped to 25°.

TUESDAY...Morning low temperatures dipped to 30° or colder throughout western Texas. However, it was not quite cold enough to defoliate the cotton in that area. Unusually cold air in Michigan and New York set several record lows. The low pressure center in the northeastern Gulf continued to set off showers from southern Mississippi to eastern North Carolina and through Florida. Rain also fell along the northern and central Pacific coast with widely scattered showers further inland.

WEDNESDAY...It was not quite as cold, but freezing temperatures again reached into western Texas as well as the Rockies, northern Plains, and Great Lakes region. Only a few scattered, light showers were reported through northern New England and along the southeastern coast from North Carolina to northern Florida. A cold front moving through the Pacific Northwest brought heavy rain, wind, high tides, and flooding to the coastal area from northern California through Washington, and lighter showers inland to northern Idaho.

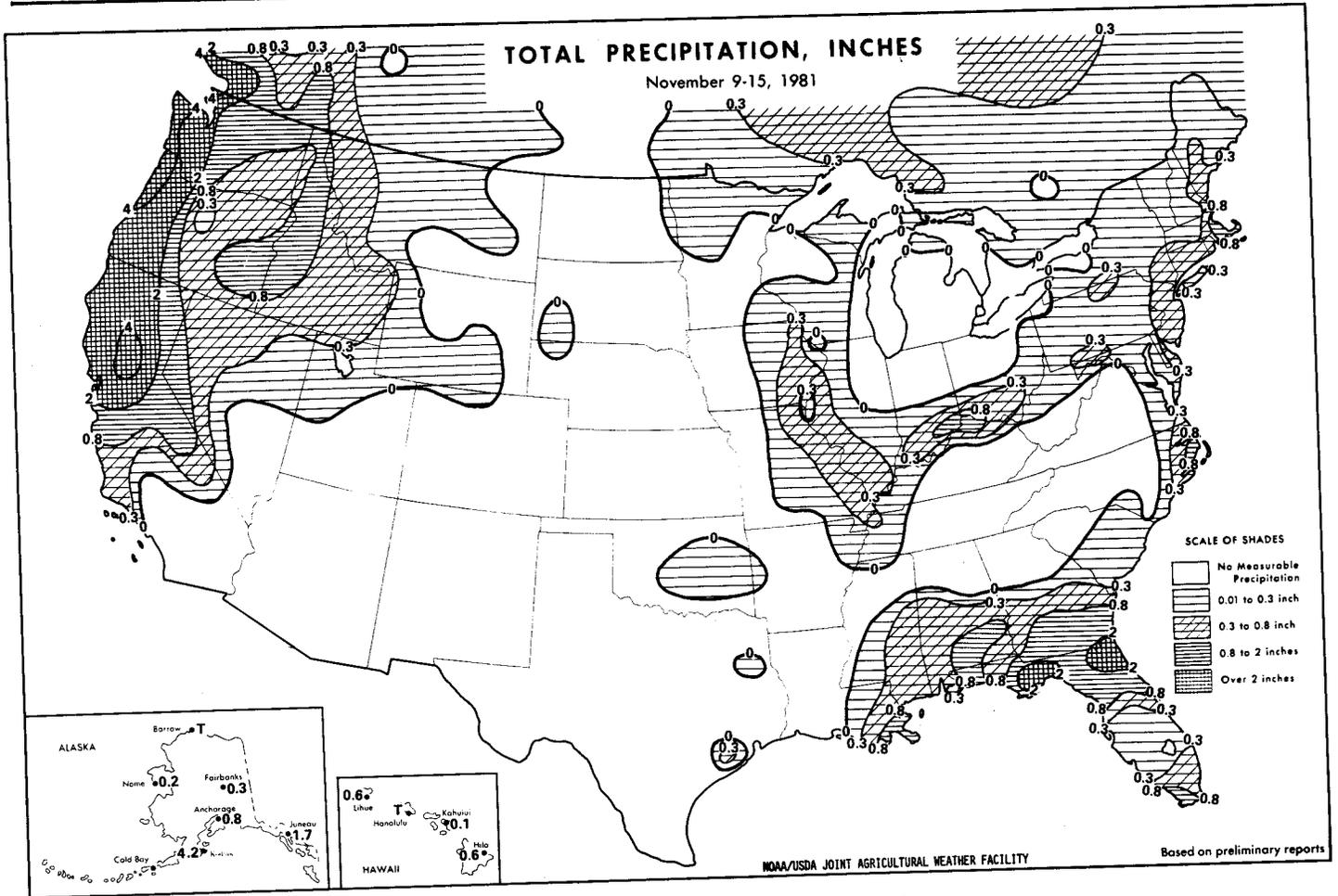
THURSDAY...The intense Pacific storm spread rain--with snow at higher elevations--from south-central California across the Plateau and Rockies to western Montana. High winds and flooding triggered by heavy precipitation continued along the coast. Warm air flowed northward through the Plains and 70° readings reached into South Dakota.

FRIDAY...An unusually strong low pressure system over the Pacific Ocean just west of northern California lashed the central and northern California coast with strong winds, very heavy rain, and even a few thunderstorms. The heavy rain reached inland to the Sierra-Nevadas and the Cascades, and lighter showers covered the northern Plateau and Rockies. On the other side of the Nation, a low pressure system off the coast of the Carolinas caused high wind and some drizzle along the mid-Atlantic coast.

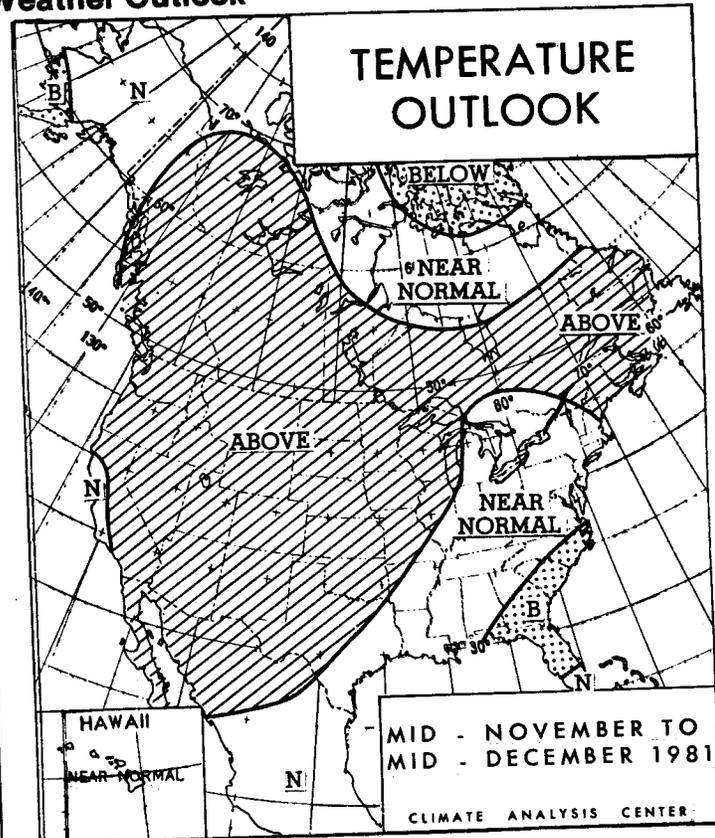
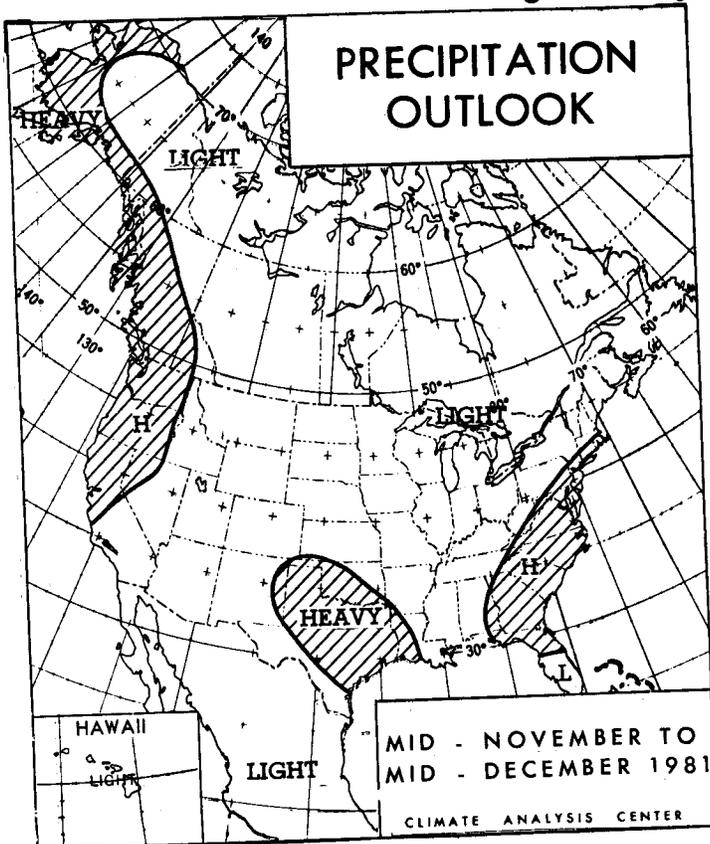
SATURDAY...The intense Pacific storm continued to batter the Northwest coast. Showers and thunderstorms were not as heavy but reached from central California through the Pacific Northwest to the northern Plains. In the East, the low pressure intensified and caused rain and high wind from the mid-Atlantic States to southern New England.

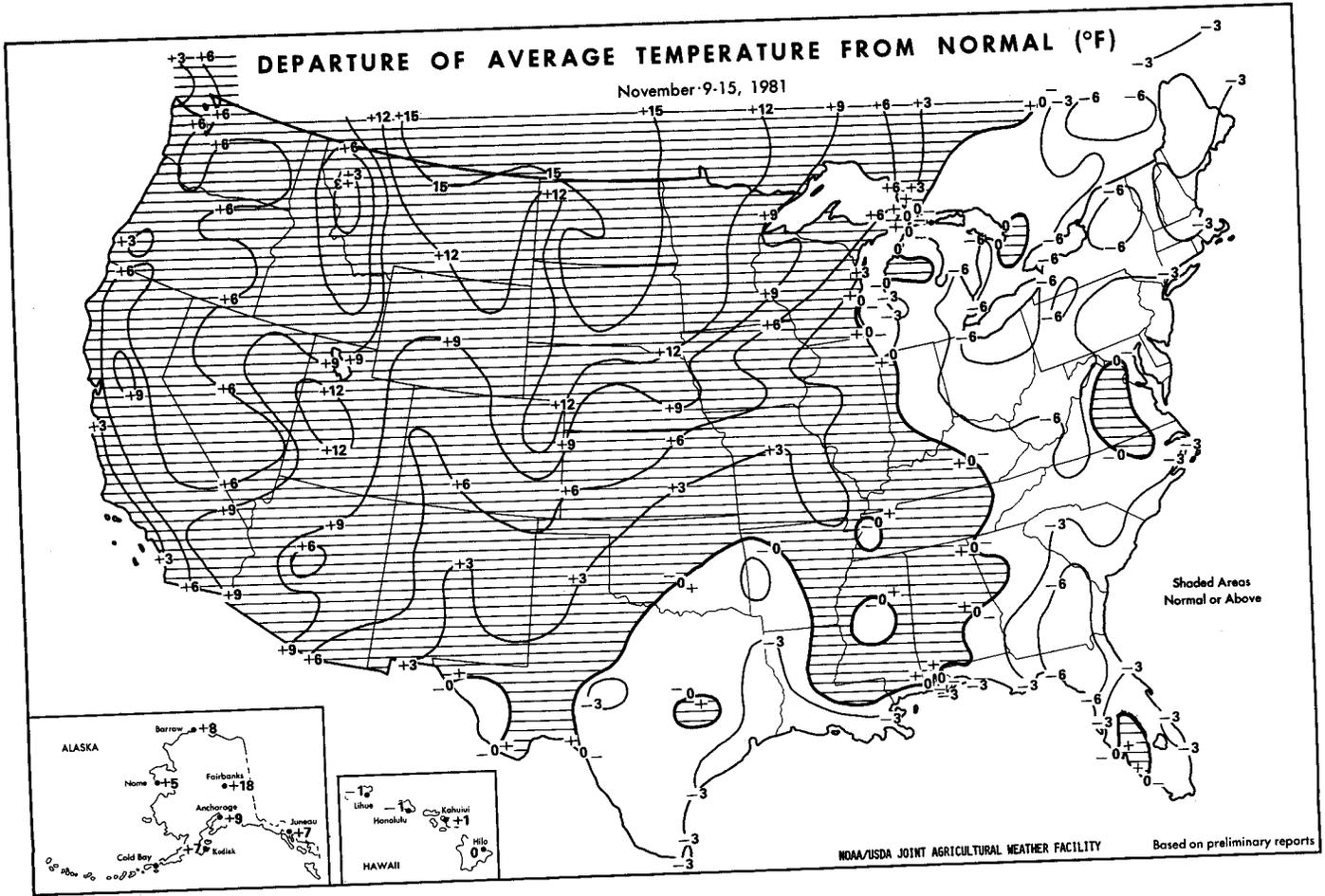
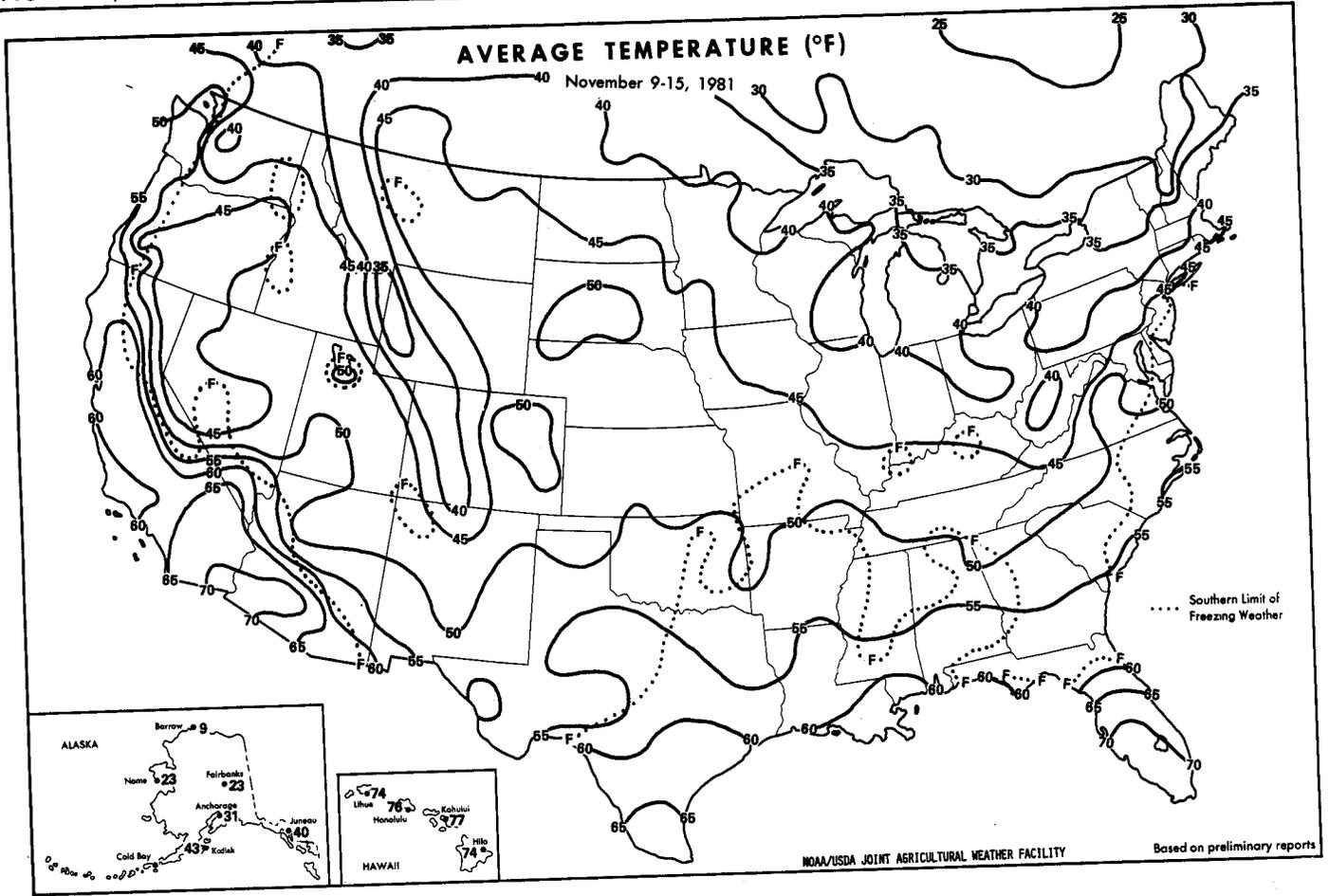
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Contents	Page
National Weather Summary & Highlights	1
Precipitation & 30-Day U.S. Weather Outlook	2
Average Temperature and Departure	3
Weather Data for Selected Cities	4
Heating Degree Days	7
National Agricultural Summary	8
Crop Progress	9
Crop Production Highlights & Pasture Conditions Map	9
State Summaries of Weather and Agriculture	10
International Weather and Crop Summary	15
Subscription Information	28



Average Monthly Weather Outlook





Weather Data for the Week Ending Nov. 15, 1981

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 AUG. 31	PCT. NORMAL SINCE AUG. 31	TOTAL, IN., SINCE JAN. 1	PCT. NORMAL SINCE JAN. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE °F		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	67	38	70	31	53	-1	T	.8	T	6.0	75	34.6	76	92	36	0	1	0	0
MOBILE	73	49	76	41	61	1	.6	T	.5	5.8	54	50.3	'85	94	45	0	0	2	1
MONTGOMERY	70	44	73	38	57	1	.5	T	.3	5.5	67	39.6	92	94	41	0	0	2	0
AK ANCHORAGE	37	25	51	9	31	9	.8	T	.6	6.7	149	19.6	150	87	60	0	5	1	1
BARROW	12	6	21	-13	9	8	T	.1	T	.8	67	--	--	97	86	0	7	1	0
FAIRBANKS	32	13	42	0	23	18	.3	T	.1	.1	2.1	91	9.2	91	67	0	7	4	0
JUNEAU	45	35	51	26	40	7	1.7	.4	.8	20.6	116	48.0	101	91	67	0	3	5	1
KODIAK	45	40	48	34	43	7	4.2	2.9	1.6	16.1	104	61.1	124	93	77	0	0	6	4
AZ FLAGSTAFF	30	15	39	-4	23	5	.2	.1	.1	2.9	63	14.9	101	81	58	0	7	2	0
PHOENIX	61	29	66	25	45	8	0	.3	0	3.2	80	19.6	116	80	25	0	5	0	0
TUCSON	85	55	89	51	70	9	0	.1	0	1.5	115	5.9	102	43	11	0	0	0	0
WINSLOW	81	50	84	47	66	6	0	.2	0	1.1	48	13.3	137	35	12	0	0	0	0
YUMA	68	33	75	29	51	6	0	.1	0	2.0	111	8.2	109	--	--	0	3	0	0
AR FORT SMITH	61	37	68	32	49	-3	.1	.6	.1	9.2	107	38.6	101	96	52	0	1	1	0
LITTLE ROCK	64	43	68	39	54	1	T	.9	T	8.4	98	40.3	96	80	49	0	0	0	0
CA BAKERSFIELD	75	54	79	51	65	7	T	.1	T	.8	133	5.2	113	78	41	0	0	0	0
EUREKA	65	51	70	46	58	6	3.3	2.0	1.4	8.0	123	27.0	89	91	67	0	0	6	2
FRESNO	71	52	77	46	61	7	.6	.4	.3	1.1	100	8.6	108	94	51	0	0	3	0
LOS ANGELES	70	56	83	53	63	2	T	.4	T	.4	36	7.0	78	86	56	0	0	0	0
RED BLUFF	64	54	73	47	59	4	3.0	2.4	1.2	7.2	248	23.5	140	91	66	0	0	6	3
SAN DIEGO	71	58	78	57	65	3	T	.3	T	.1	11	8.6	121	96	64	0	0	0	0
SAN FRANCISCO	64	56	66	51	60	4	3.2	2.7	2.1	5.9	268	18.1	125	92	68	0	0	4	2
STOCKTON	68	53	73	43	60	6	2.1	1.8	1.3	3.7	218	12.9	122	98	66	0	0	3	2
CO DENVER	67	35	74	30	51	11	0	.2	0	1.2	43	11.9	81	51	14	0	2	0	0
GRAND JUNCTION	58	34	62	30	46	5	0	.1	0	2.5	125	7.6	110	77	33	0	4	0	0
PUEBLO	69	30	77	22	49	7	0	.1	0	.7	37	7.1	60	60	20	0	5	0	0
CT BRIDGEPORT	52	35	61	29	44	-4	.2	.7	.2	9.4	121	27.2	82	73	40	0	1	1	0
HARTFORD	53	33	61	22	43	0	.4	.7	.3	10.6	120	29.6	80	73	36	0	4	2	0
DC WASHINGTON	59	43	67	35	51	1	T	.7	T	6.4	88	29.0	85	72	36	0	0	0	0
FL APALACHICOLA	71	49	75	39	60	-2	1.8	1.2	1.8	4.7	35	34.5	65	73	44	0	0	2	1
DAYTONA BEACH	72	52	80	40	62	-4	1.0	.5	1.0	11.4	80	36.7	77	93	55	0	0	1	1
FORT MYERS	81	60	85	51	71	1	.1	.2	.1	7.9	56	51.5	99	92	46	0	0	1	0
JACKSONVILLE	70	46	80	31	58	-4	2.6	2.2	2.4	7.6	56	32.5	63	97	49	0	1	2	1
KEY WEST	78	69	83	66	74	-2	2.2	1.5	2.1	11.6	78	26.9	72	90	67	0	0	2	1
MIAMI	81	63	85	58	72	-1	.5	.2	.5	18.7	97	51.0	88	92	49	0	0	2	1
ORLANDO	77	55	82	42	66	-1	.2	.2	.2	14.0	113	44.7	91	92	48	0	2	2	1
TALLAHASSEE	70	40	77	30	55	-5	2.1	1.5	2.1	8.9	82	45.5	82	98	43	0	0	3	0
TAMPA	75	53	81	42	64	-4	.1	.4	T	7.0	71	35.1	75	98	49	0	0	3	0
WEST PALM BEACH	78	60	81	52	69	-2	.3	.3	.3	15.8	77	47.6	82	95	55	0	0	2	0
GA ATLANTA	67	41	71	34	54	2	T	.8	T	8.5	113	34.2	81	79	31	0	0	0	0
AUGUSTA	65	33	72	23	49	-6	T	.5	T	3.7	58	34.8	91	97	36	0	4	2	0
MACON	69	39	76	31	54	-2	.2	.3	.2	6.4	96	39.2	100	95	41	0	2	2	0
SAVANNAH	68	42	76	31	55	-3	.6	.1	.5	5.4	56	36.5	78	84	40	0	1	2	1
HI HILO	80	67	81	63	74	0	.6	2.5	.3	29.2	116	--	--	93	66	0	0	6	0
HONOLULU	83	69	85	61	76	-1	T	.7	T	2.8	80	8.4	47	84	58	0	0	1	0
KAHULUI	84	71	85	63	77	1	.1	.4	.1	2.7	104	--	--	76	55	0	0	1	0
LIHUE	82	66	84	61	74	-1	.6	.7	.3	9.8	115	--	--	94	61	0	0	3	0
ID BOISE	59	39	66	32	49	8	.9	.6	.5	2.1	117	11.1	112	82	38	0	1	4	0
LEWISTON	56	39	61	36	48	7	.7	.4	.6	3.1	119	12.0	103	88	49	0	0	4	1
POCATELLO	57	30	63	21	43	6	.6	.3	.3	2.3	128	11.2	123	87	44	0	5	3	0
IL CAIRO	61	38	67	32	50	0	.2	.7	.2	4.5	55	37.0	89	--	--	0	1	1	0
CHICAGO	54	30	62	24	42	1	0	.5	0	5.6	88	36.0	124	84	40	0	5	0	0
MOLINE	55	27	62	23	41	0	.3	.1	.3	11.1	146	34.3	103	87	43	0	6	1	0
PEORIA	56	33	61	27	44	3	T	.5	T	3.7	52	37.0	115	83	48	0	3	1	0
ROCKFORD	53	27	60	23	40	1	T	.6	T	8.4	100	32.7	96	87	40	0	6	0	0
SPRINGFIELD	56	32	64	26	44	1	T	.5	T	4.8	62	44.8	139	88	45	0	5	2	0
IN EVANSVILLE	58	34	65	29	46	0	.2	.5	.2	4.7	68	38.1	103	91	51	0	2	1	0
FORT WAYNE	52	28	58	24	40	-2	0	.6	0	6.9	101	33.5	104	87	43	0	7	0	0
INDIANAPOLIS	57	28	62	24	42	-1	T	.7	T	4.5	64	33.3	97	84	38	0	7	1	0
SOUTH BEND	52	27	59	24	40	-2	0	.6	0	5.3	70	34.3	105	89	43	0	7	0	0
IA BURLINGTON	56	34	64	26	45	4	T	.3	T	9.6	125	42.6	132	82	42	0	3	0	0
DES MOINES	58	34	66	26	46	7	T	.3	T	5.9	95	29.3	99	70	38	0	3	0	0
DUBUQUE	51	32	58	24	41	4	T	.6	T	9.4	107	--	--	89	48	0	5	0	0
SIOUX CITY	60	31	67	18	46	8	0	.2	0	4.6	92	18.9	77	94	39	0	4	0	0
KS CONCORDIA	61	36	67	24	49	6	T	.2	T	5.3	95	32.1	121	86	43	0	3	0	0
DODGE CITY	62	37	68	25	49	5	0	.1	0	6.7	172	24.3	121	85	34	0	2	0	0
GOODLAND	64	32	71	23	48	8	0	.1	0	1.5	52	21.2	130	76	25	0	3	0	0
TOPEKA	63	34	70	27	49	4	0	.3	0	9.6	139	39.3	121	86	41	0	4	0	0
WICHITA	59	35	67	25	47	1	T	.3	T	9.4	131	26.7	91	89	53	0	3	0	0
K1 LEXINGTON	56	34	62	29	45	-1	0	.8	0	4.4	68	31.3	80	89	48	0	2	0	0
LOUISVILLE	56	36	63	31	46	0	T	.8	T	5.0	70	29.6	77	87	47	0	2	0	0
LA BATON ROUGE	71	47	76	40	59	-1	.1	.7	.1	6.2	76	37.6</							

Weather Data for the Week Ending Nov. 15, 1981

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 AUG. 31	PCT. NORMAL SINCE AUG. 31	TOTAL, IN., SINCE JAN. 1	PCT. NORMAL SINCE JAN. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	TEMPERATURE °F		PRECIPITATION	
																		.01 INCH OR MORE	.50 INCH OR MORE		
LAKE CHARLES	68	46	75	42	57	-4	0	-.9	0	7.5	78	47.2	99	95	51	0	0	0	0	0	0
NEW ORLEANS	72	49	76	40	60	0	0	-.6	0	7.8	80	49.1	99	97	51	0	0	0	0	0	0
SHREVEPORT	68	40	72	36	54	-3	0	-.2	0	9.6	123	39.6	102	99	51	0	0	0	0	0	0
CARIBOU	38	21	48	17	29	-4	0	-.8	0	9.0	105	41.2	130	88	52	0	0	0	0	0	0
PORTLAND	47	29	59	19	38	-2	0	-.9	0	12.1	134	40.4	116	83	46	0	0	0	0	0	0
BALTIMORE	55	39	66	31	47	-1	0	-.7	0	6.2	84	28.0	80	66	33	0	0	0	0	0	0
BOSTON	50	36	65	29	43	-4	1.3	-.2	1.2	7.6	90	26.2	73	80	53	0	0	0	0	0	0
CHATHAM	49	42	57	37	45	-1	1.0	-.5	0	9.2	35.4	19.3	78	95	46	0	0	0	0	0	0
ALPENA	46	22	57	16	34	-2	0	-.6	0	5.6	86	19.3	78	95	46	0	0	0	0	0	0
DETROIT	50	28	60	24	39	-3	0	-.6	0	9.6	157	30.1	105	91	40	0	0	0	0	0	0
FLINT	50	28	60	24	39	-3	0	-.6	0	11.0	177	32.0	118	86	42	0	0	0	0	0	0
GRAND RAPIDS	48	26	60	22	37	-3	0	-.7	0	12.3	162	41.5	142	81	33	0	0	0	0	0	0
HOUGHTON LAKE	52	24	61	22	38	-2	0	-.6	0	4.8	65	27.5	105	84	42	0	0	0	0	0	0
LANSING	48	28	57	23	38	2	0	-.6	0	9.4	154	29.2	108	95	43	0	0	0	0	0	0
MARQUETTE	50	25	59	23	37	-2	0	-.5	0	7.0	79	28.5	88	86	51	0	0	0	0	0	0
MUSKOGON	44	31	58	27	38	6	0	-.8	0	8.9	119	28.6	103	86	44	0	0	0	0	0	0
SAULT STE. MARIE	50	24	58	21	37	-4	0	-.7	0	7.0	83	24.7	88	94	56	0	0	0	0	0	0
SAULT STE. MARIE	42	23	53	18	33	-2	0	-.6	0	6.0	92	26.3	94	86	49	0	0	0	0	0	0
DULUTH	45	29	57	14	37	7	0	-.4	0	7.1	83	24.7	88	94	56	0	0	0	0	0	0
DULUTH	49	32	61	12	41	14	0	-.1	0	8.0	136	21.0	86	87	53	0	0	0	0	0	0
INT'L FALLS	49	32	61	12	41	14	0	-.1	0	4.2	79	25.0	102	80	43	0	0	0	0	0	0
MINNEAPOLIS	55	34	62	21	44	10	0	-.3	0	5.2	90	31.6	120	83	42	0	0	0	0	0	0
MINNEAPOLIS	51	30	61	16	41	6	0	-.2	0	5.7	112	23.9	93	86	50	0	0	0	0	0	0
ROCHESTER	52	31	60	11	42	10	0	-.3	0	8.9	125	40.3	95	97	43	0	0	0	0	0	0
SAINT CLOUD	70	40	74	31	55	0	0	-.7	0	5.7	81	36.0	82	91	36	0	0	0	0	0	0
JACKSON	71	39	73	32	55	0	0	-.1	0	7.4	82	46.3	131	91	55	0	0	0	0	0	0
MERIDIAN	58	36	65	27	47	1	0	-.2	0	8.4	98	40.4	115	76	42	0	0	0	0	0	0
COLUMBIA	59	36	64	27	48	4	0	-.4	0	7.5	107	42.2	130	98	46	0	0	0	0	0	0
KANSAS CITY	58	36	65	29	47	1	0	-.6	0	9.7	107	40.5	111	82	45	0	0	0	0	0	0
SAINT LOUIS	60	38	66	34	49	2	0	-.6	0	15.2	114	67	25	0	0	0	0	0	0	0	0
SPRINGFIELD	62	36	67	31	49	13	0	-.2	0	1.5	52	15.2	114	67	25	0	0	0	0	0	0
BILLINGS	57	31	62	25	44	14	0	-.1	0	1.4	88	8.1	75	75	36	0	0	0	0	0	0
GLASGOW	59	39	65	33	49	14	0	-.1	0	1.7	74	13.8	99	60	30	0	0	0	0	0	0
GREAT FALLS	59	31	66	27	45	14	0	-.1	0	1.9	90	9.4	85	81	31	0	0	0	0	0	0
HAVRE	59	31	66	27	45	14	0	-.1	0	1.9	106	13.1	128	87	39	0	0	0	0	0	0
HELENA	55	28	65	22	41	8	0	-.1	0	1.0	32	15.9	108	99	74	0	0	0	0	0	0
KALISPELL	44	25	50	20	34	3	0	-.4	0	2.1	95	9.7	73	82	32	0	0	0	0	0	0
MILES CITY	59	32	66	28	46	12	0	-.1	0	2.1	88	14.7	126	98	64	0	0	0	0	0	0
MILES CITY	45	26	52	16	36	2	0	-.4	0	2.1	88	14.7	126	98	64	0	0	0	0	0	0
MISSOULA	59	32	66	28	46	12	0	-.1	0	3.5	95	21.0	93	89	39	0	0	0	0	0	0
GRAND ISLAND	61	32	67	18	47	7	0	-.2	0	5.6	112	22.0	87	91	42	0	0	0	0	0	0
LINCOLN	62	31	69	19	47	6	0	-.1	0	2.7	66	19.5	84	87	32	0	0	0	0	0	0
NORFOLK	61	32	67	18	47	9	0	-.1	0	1.4	41	22.2	115	93	30	0	0	0	0	0	0
NORTH PLATTE	63	27	70	18	45	8	0	-.1	0	4.2	74	26.4	93	77	49	0	0	0	0	0	0
OMAHA	60	37	67	22	48	9	0	-.2	0	2.9	112	17.3	99	82	22	0	0	0	0	0	0
VALENTINE	67	28	76	17	48	12	0	-.1	0	4.0	308	9.9	146	57	20	0	0	0	0	0	0
ELY	59	31	64	20	45	10	0	-.1	0	4	44	2.8	76	47	22	0	0	0	0	0	0
LAS VEGAS	76	52	82	47	64	3	1.4	1.2	1.3	2.0	182	4.8	80	97	48	0	0	0	0	0	0
LAS VEGAS	55	32	64	23	44	8	0	-.2	0	1.6	100	5.7	80	80	36	0	0	0	0	0	0
WINNEMUCCA	60	32	67	21	46	8	0	-.1	0	11.7	152	38.9	127	88	44	0	0	0	0	0	0
CONCORD	49	24	56	14	37	-3	0	-.8	0	5.3	61	6.1	61	61	49	0	0	0	0	0	0
ATLANTIC CITY	54	38	66	30	46	-2	0	-.8	0	7.6	100	35.2	99	66	35	0	0	0	0	0	0
TRENTON	54	40	64	29	47	0	0	-.3	0	1.9	112	7.4	101	64	21	0	0	0	0	0	0
ALBUQUERQUE	65	32	70	30	49	3	0	-.1	0	3.8	119	24.3	229	58	18	0	0	0	0	0	0
ALBUQUERQUE	71	35	82	30	53	5	0	-.1	0	7.7	104	26.0	89	85	38	0	0	0	0	0	0
ROSWELL	47	24	52	13	36	-6	0	-.5	0	8.9	116	26.9	82	78	38	0	0	0	0	0	0
ALBANY	46	28	54	20	37	-3	0	-.5	0	8.1	98	31.8	102	86	40	0	0	0	0	0	0
BINGHAMTON	49	28	60	21	39	-3	0	-.8	0	7.4	90	29.3	80	67	38	0	0	0	0	0	0
BUFFALO	52	41	61	35	46	-3	0	-.7	0	9.3	139	30.9	112	92	52	0	0	0	0	0	0
NEW YORK	48	28	54	22	38	-5	0	-.7	0	13.2	178	30.2	96	93	50	0	0	0	0	0	0
ROCHESTER	47	26	53	20	37	-6	0	-.6	0	3.7	44	28.7	71	98	29	0	0	0	0	0	0
SYRACUSE	65	28	67	23	47	0	0	-.7	0	7.6	101	30.9	81	73	28	0	0	0	0	0	0
ASHEVILLE	63	37	71	30	50	-2	0	-.6	0	10.1	129	35.3	96	82	32	0	0	0	0	0	0
CHARLOTTE	61	35	70	28	48	-1	0	-.6	0	5.7	44	43.4	88	81	63	0	0	0	0	0	0
GREENSBORO	59	50	69	38	54	-3	1.0	-.1	0	7.7	95	30.9	81	70	35	0	0	0	0	0	0
HATTERAS	62	38	72	34	50	-1	0	-.6	0	2.5	24	37.9	78	77	43	0	0	0	0	0	0
RALEIGH	62	43	72	36	53	-4	0	-.6	0	2.4	100	13.1	85	79	34	0	0	0	0	0	0
WILMINGTON	59	29	63	20	44	14	0	-.1	0	4.0	118	16.6	88	86	48	0	0	0	0	0	0
BISMARCK	55	29	65	13	42	12	0	-.1	0	1.2	55	10.4	77	90	36	0	0	0	0	0	0
FARGO	58	25	64	20	41	12	0	-.1	0	5.6	88	36.6	115	73	35	0	0	0	0	0	0
WILLISTON	54	31	64	26	42	0	0	-.6	0	4.8	75	30.7	89	82	45	0	0	0	0	0	0
AKRON-CANTON	53	30	61	27	42	-3	0	-.7	0	9.5	136	34.2	106	80	42	0	0	0	0	0	0
CINCINNATI	52	30	64	26	41	-2	0	-.6	0	3.9	68	33.6	101	82	40	0	0	0	0	0	0
CLEVELAND	52	25	62	22	38	-5	0	-.5	0	8.1	142	37.6	121	84	43	0	0	0	0	0	0
COLUMBUS	56	30	63	24	43	0	0	-.6	0	11.1	185	34.9	123	92	51	0	0	0	0	0	0
DAYTON	49	25	56	21	37	-4	0	-.													

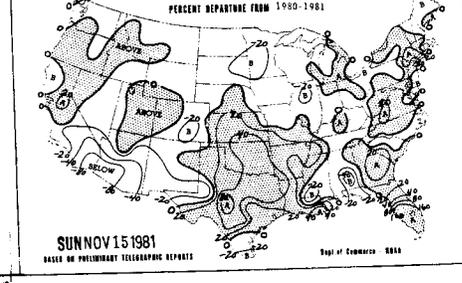
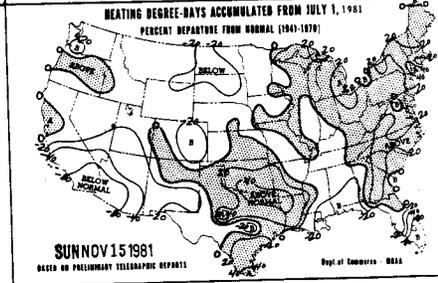
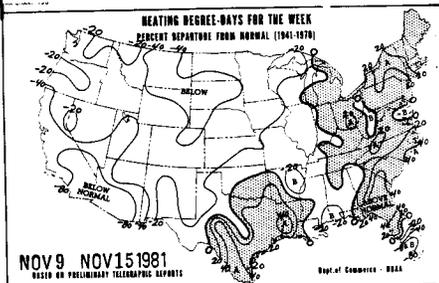
Weather Data for the Week Ending Nov. 15, 1981

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 Aug. 31	PCT. NORMAL SINCE Aug. 31	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	
OR TULSA	63	39	68	35	51	0	T	-.4	T	11.2	130	36.0	104	96	50	0	0	1	0	
OR ASTORIA	59	46	62	39	53	6	4.6	2.4	T	16.7	125	50.9	102	90	66	0	0	6	2	
OR BURNS	53	29	60	21	41	4	1.0	.7	T	2.7	135	10.0	108	92	63	0	6	3	1	
OR MEDFORD	60	42	71	36	51	7	2.5	1.8	T	4.3	102	10.6	68	94	60	0	0	5	2	
OR PENDLETON	58	37	68	28	47	5	.4	.1	T	2.6	104	11.6	112	88	52	0	0	3	0	
OR PORTLAND	60	45	62	39	53	7	2.2	.9	T	8.3	104	23.8	83	98	60	0	0	6	1	
OR SALEM	55	42	62	39	49	3	3.2	1.8	T	10.7	127	27.4	88	100	76	0	0	6	2	
PA ALLENTOWN	52	34	57	24	43	-1	-.3	-.6	T	6.6	80	31.0	84	77	36	0	2	2	0	
PA ERIE	50	30	57	25	40	-2	0	.9	T	9.8	113	37.6	113	74	43	0	4	0	0	
PA HARRISBURG	52	35	58	25	44	-2	-.1	-.7	T	7.1	101	32.1	101	76	35	0	2	1	0	
PA PHILADELPHIA	53	39	65	31	46	-1	.3	-.4	T	6.1	84	32.4	93	74	36	0	1	2	0	
PA PITTSBURGH	51	29	61	24	40	-3	-.1	-.5	T	6.7	103	33.4	103	79	43	0	3	2	0	
PA SCRANTON	48	32	53	22	40	-3	-.2	-.5	T	7.2	103	32.5	105	74	45	0	3	2	0	
RI PROVIDENCE	51	35	65	27	43	-2	-.3	-.8	T	6.8	76	27.6	76	86	51	0	2	3	0	
SC CHARLESTON	66	41	76	27	54	-4	-.1	-.4	T	3.8	40	44.3	92	80	35	0	1	1	0	
SC COLUMBIA	67	35	75	25	51	-4	T	-.5	T	2.4	29	30.1	71	89	33	0	3	1	0	
SC GREENVILLE	64	36	73	28	50	-2	0	-.7	T	6.6	77	26.9	65	76	29	0	1	0	0	
SD ABERDEEN	61	31	64	15	46	14	---	---	---	---	---	---	---	80	34	0	3	---	---	
SD HURON	61	32	68	20	46	12	0	.1	T	2.7	75	14.1	75	85	36	0	3	0	0	
SD RAPID CITY	65	31	70	24	48	12	.1	-.1	T	2.2	92	13.9	80	78	25	0	3	2	0	
SD SIOUX FALLS	61	31	69	15	46	11	T	-.2	T	2.9	60	16.5	70	79	36	0	3	0	0	
TN CHATTANOOGA	65	35	69	31	50	0	0	-.9	T	7.2	84	37.7	86	90	34	0	3	0	0	
TN KNOXVILLE	63	34	66	31	49	-2	1	-.8	T	10.6	151	37.1	93	91	37	0	3	0	0	
TN MEMPHIS	66	41	69	34	53	1	1	-.8	T	8.8	114	35.9	84	87	42	0	0	1	0	
TN NASHVILLE	62	36	67	29	49	0	0	-.8	T	4.1	58	35.5	89	89	40	0	2	0	0	
TX ABILENE	67	43	75	30	55	0	0	-.3	T	12.5	216	27.0	120	74	31	0	1	0	0	
TX AMARILLO	67	33	75	27	50	3	0	-.1	T	6.4	156	20.9	111	79	24	0	3	0	0	
TX AUSTIN	71	49	81	43	60	0	0	-.5	T	10.5	133	45.6	155	88	50	0	0	0	0	
TX BEAUMONT	67	47	77	44	57	-4	T	-1.0	T	10.9	96	46.3	96	100	55	0	0	0	0	
TX BROWNSVILLE	78	54	87	48	66	-2	T	-.3	T	7.9	83	29.5	126	95	46	0	0	0	0	
TX CORPUS CHRISTI	74	55	86	44	64	-1	T	-.4	T	11.7	134	43.0	163	92	56	0	0	0	0	
TX DEL RIO	73	46	83	35	60	-1	0	-.2	T	7.0	121	27.3	166	85	44	0	0	0	0	
TX EL PASO	75	33	82	27	54	1	0	-.1	T	1.0	45	12.3	168	58	17	0	3	0	0	
TX FORT WORTH	66	44	77	36	55	-2	0	-.5	T	17.7	249	44.2	149	91	52	0	0	0	0	
TX GALVESTON	67	55	74	51	61	-3	0	-.7	T	6.5	65	33.0	90	91	62	0	0	0	0	
TX HOUSTON	72	47	83	45	60	-2	T	-.9	T	17.5	164	50.3	119	98	52	0	0	0	0	
TX LUBBOCK	69	37	84	30	53	3	0	-.1	T	7.2	150	22.2	126	78	23	0	2	0	0	
TX MIDLAND	72	38	82	32	55	1	0	-.1	T	6.2	177	17.4	137	76	20	0	1	0	0	
TX SAN ANGELO	68	36	79	27	52	-5	0	-.2	T	11.3	209	30.0	181	89	30	0	3	0	0	
TX SAN ANTONIO	73	45	79	36	59	-2	0	-.4	T	10.7	139	36.7	142	95	44	0	0	0	0	
TX VICTORIA	72	50	81	42	61	-3	0	-.6	T	11.4	119	43.7	140	94	51	0	0	0	0	
TX WACO	68	43	80	36	56	-3	0	-.6	T	12.6	177	32.8	116	95	54	0	0	0	0	
TX WICHITA FALLS	67	36	73	28	51	-3	0	-.3	T	9.4	142	30.5	117	96	40	0	2	0	0	
UT BLANDING	59	35	60	31	47	8	0	-.2	T	2.9	104	11.3	111	74	35	0	1	0	0	
UT SALT LAKE CITY	60	40	64	35	50	10	T	-.3	T	4.7	196	14.0	106	88	43	0	0	1	0	
VT BURLINGTON	43	25	49	19	34	-5	.1	-.6	T	12.0	160	38.1	133	81	47	0	7	2	0	
VA LYNCHBURG	58	37	67	29	48	-1	0	-.6	T	6.5	89	31.1	93	71	30	0	1	0	0	
VA NORFOLK	56	46	67	41	51	-2	.3	-.4	T	7.3	79	34.4	86	87	52	0	0	2	0	
VA RICHMOND	59	39	68	31	49	-2	T	-.8	T	5.4	64	30.8	81	72	37	0	1	0	0	
VA ROANOKE	58	30	65	25	44	-4	0	-.6	T	8.4	102	26.9	77	81	36	0	4	0	0	
WA COLVILLE	46	37	52	32	41	6	1.1	-.6	T	4.7	142	21.2	156	98	83	0	1	4	1	
WA OMAK	51	35	57	29	43	4	1.4	-.6	T	4.4	4.4	---	10.9	---	---	0	3	5	0	
WA QUILLAYUTE	56	42	63	35	49	4	5.1	2.0	T	2.2	27.1	116	82.2	99	99	76	0	6	4	
WA SEATTLE-TACOMA	56	45	58	38	51	5	2.0	.6	T	1.2	12.0	136	28.1	98	90	61	0	6	1	
WA SPOKANE	51	37	55	33	44	7	.3	-.2	T	2.4	75	11.9	83	94	65	0	0	5	0	
WA WALLA-WALLA	57	40	69	33	48	4	.3	-.1	T	3.7	116	17.7	129	88	53	0	0	1	0	
WA YAKIMA	53	34	58	27	44	4	-.9	-.7	T	2.7	193	6.0	100	97	67	0	2	4	0	
WV BECKLEY	56	31	60	27	44	1	0	-.7	T	9.0	122	33.3	88	74	26	0	5	0	0	
WV CHARLESTON	58	31	65	25	44	-2	T	-.6	T	5.6	82	32.8	90	94	38	0	4	0	0	
WV HUNTINGTON	56	33	63	26	44	-3	0	-.7	T	4.7	72	34.4	99	81	38	0	4	0	0	
WV PARKERSBURG	53	33	63	26	43	-3	.1	-.5	T	5.5	87	29.1	84	97	47	0	4	1	0	
WI GREEN BAY	49	27	59	24	38	3	0	-.5	T	6.8	111	21.5	86	93	48	0	7	0	0	
WI LA CROSSE	52	31	60	22	42	4	.3	-.1	T	4.4	68	33.0	120	93	49	0	4	1	0	
WI MADISON	51	23	57	19	37	1	T	-.5	T	7.4	114	29.7	106	96	45	0	7	0	0	
WI MILWAUKEE	48	27	53	23	37	-1	0	-.5	T	8.7	145	30.7	118	89	49	0	7	0	0	
WY CASPER	58	34	63	26	46	11	T	-.1	T	1.0	45	9.9	97	63	26	0	2	1	0	
WY CHEYENNE	61	32	66	27	47	10	0	-.1	T	1.1	48	16.0	113	66	21	0	4	0	0	
WY LANDER	56	29	59	25	42	10	0	-.2	T	1.2	41	10.1	78	66	28	0	6	0	0	
WY SHERIDAN	66	28	73	26	47	13	0	-.2	T	1.6	55	13.3	88	70	18	0	7	0	0	
PR SAN JUAN	88	74	92	71	81	2	.5	-.8	T	.4	16.7	113	56.3	109	90	61	1	0	3	0

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

HEATING DEGREE DAYS (BASE 65°) FOR WEEK ENDING NOV. 15, 1981.
BASED ON 1941-70 NORMALS. + ACCUMULATION FROM JULY 1, 1981.

Table with columns for STATES AND STATIONS, WEEKLY TOTAL, WEEKLY DEPARTURE*, SEASONAL ACCUMULATION +, and SEASONAL DEPARTURE*. Rows list various cities across the United States.



National Agricultural Summary

November 9-15, 1981

HIGHLIGHTS: Mild dry weather lowered the moisture content of grain and provided excellent harvesting conditions over most of the Nation. Farmers had 4 to 7 days for fieldwork in all areas except Kansas where muddy fields limited the available days to 3. Soil moisture was short to adequate in all States except South Dakota where supplies ranged from very short to short and in Kansas and Missouri where adequate to surplus supplies were reported. Winter wheat seeding neared completion and 89% of the acreage had emerged. Stands were in mostly good condition. Corn harvest was 84% complete, still lagging last year's rapid pace of 97% and the average of 88%. Soybeans were 86% harvested, 4 points behind last year and only 1 point behind normal. Grain sorghum harvest advanced to 78% finished, behind last year's 97% and the 92% average. Cotton picking reached 56% complete, compared to 70% last year. Cattle grazed fall pastures and crop stubble. Winter wheat fields provided limited grazing.

CORN: Corn harvest in the 17 major producing States advanced to 84% complete, still lagging last year (97%) and the average (88%). However, another dry week allowed farmers to make excellent progress with this year's late harvest. Michigan and Wisconsin farmers harvested 25% of their acreage during the week while those in Indiana and Ohio harvested 20%. Even though mild temperatures and dry weather aided the drying of grain, harvesting was slow in some areas due to continued high moisture content of the corn. Harvest neared completion across the South.

SOYBEANS: In the 18 major producing States, soybean combining was 86% finished, compared with 90% last year and the average of 87%. Rapid progress was made in most areas as farmers took advantage of warm, dry weather. Growers in Arkansas harvested 25% of their acreage during the week and those in Tennessee harvested 22%. Combining was finished in Iowa.

COTTON: The 14 major producing States showed 56% of the cotton acreage harvested, dropping behind last year's 70%. Progress was behind normal in Arkansas, Missouri, North Carolina, Oklahoma, and Texas. A light freeze killed many plants on the High Plains of Texas and should speed harvesting progress. Harvest gained momentum in East Texas as fields dried. A cool, wet fall in Oklahoma kept bolls from opening properly, causing lower yields in some fields.

SMALL GRAINS: Winter wheat seeding neared completion in most States, except California, where farmers had seeded only 40% of their acreage. In the 15 major producing States, seeding was 94% complete, 1 point behind last year's progress. Plants had emerged on 89% of the acreage. The crop rated good to excellent in Kansas and fair to mostly good in all other States. Wind damage was reported very light in Montana. Fields dried in the Cross Timbers area of Texas where planting resumed. Muddy conditions delayed grazing of Oklahoma wheat fields.

SORGHUM: Sorghum harvest lagged behind normal in all States except South Dakota. In the seven major producing States, harvesting reached 78% complete, down from last year's 97% and the 92% down from average. Harvesting was as much as 30 percentage points behind schedule in Colorado and Kansas.

OTHER CROPS: The Texas peanut harvest was 63% finished, 24 percentage points behind normal. Fields were drying and harvest moved steadily. Some losses were reported due to heavy rains earlier in the season.

The Tennessee burley crop was 74% stripped, and the burley crop in Kentucky was 40% stripped. Maryland growers had stripped 15% of their crop. Burley markets in Kentucky are set to open on November 23.

The sunflower harvest was 75% complete in Texas, 94% in Minnesota, and 96% in South Dakota. Only scattered fields remained for harvest in North Dakota.

The Florida sugarcane harvest continued active, and harvesting in Louisiana was 48% finished, 2 points ahead of average.

FRUITS AND NUTS: Northern growers continued orchard maintenance such as pruning, clean-up, and rodent control. Florida's citrus groves were in good condition for the winter season. Harvesting gained momentum for early citrus varieties. Arizona's lemon harvest continued in full swing in the Yuma area and increased in the Salt River Valley area. The Navel and sweet orange harvest hit full swing in the Salt River Valley with good quality and sizes reported. Grapefruit and tangerine harvests were limited. Early orange and grapefruit harvests continued actively in the Rio Grande Valley of Texas with fruit showing good size and quality. The pecan harvest continued at a steady pace with good to excellent yields reported. California growers harvested early variety Navel oranges. Date, kiwi, grape, and persimmon harvests were also active.

VEGETABLES: A few hardy vegetables continued to move to market in northern areas. Florida's vegetable shipments were up 22% from the previous week as the volume of most crops increased. The only crops showing declines in volume were okra, radishes, and peas. The California broccoli harvest was heavy on the central and southern coast. The carrot harvest was active in the Kern and Salinas districts. Sweet corn picking was underway in the Coachella Valley. The market tomato harvest slowed and the processing harvest was finished. In the Rio Grande Valley of Texas, conditions remained favorable with plants making good growth. The carrot harvest was in full swing in the San Antonio-Winter Garden area. The bell pepper harvest was virtually finished in the Trans-Pecos region.

PASTURES AND LIVESTOCK: Pastures generally rated fair to good except in parts of the Southeast where poor to fair conditions were reported. Cattle showed good condition and grazed on fall pastures and crop stubble. Winter wheat fields provided limited grazing.

WINTER WHEAT % PLANTED				CROP PROGRESS FOR WEEK ENDING NOV 15, 1981				CORN % HARVESTED				SOYBEAN % HARVESTED			
	1981	1980	AVG.		1981	1980	AVG.		1981	1980	AVG.		1981	1980	AVG.
CALIF	40	27	NA	ALA	90	93	68	COLO	73	95	94	ALA	82	84	74
COLO	100	100	100	ARI7	60	50	60	GA	99	99	96	ARK	69	76	76
IDAHO	100	100	100	ARK	82	97	85	ILL	89	98	91	GA	62	56	54
ILL	92	100	99	CALIF	85	75	NA	IND	75	97	85	ILL	97	100	98
IND	97	99	99	GA	87	96	76	IOWA	90	100	91	IND	94	99	97
KANS	97	99	98	LA	95	99	92	KANS	85	99	95	IOWA	100	100	98
MO	84	94	85	MISS	95	95	87	KY	93	97	90	KANS	75	95	90
MONT	100	100	100	MO	80	95	88	LA	80	85	81	KY	84	96	92
NFBR	100	100	100	N MEX	60	50	45	MICH	89	99	90	LA	83	92	93
OHIO	99	100	100	N C	85	93	73	MTNN	84	97	85	MICH	90	95	92
OKLA	95	90	95	OKLA	10	55	25	MO	75	97	80	MINN	98	99	98
OREG	98	96	NA	S C	92	94	85	NEBR	97	97	96	MISS	80	78	80
S DAK	100	100	100	TENN	82	99	74	N C	77	90	75	MO	81	96	87
TEX	88	90	93	TEX	36	59	49	OHIO	94	99	92	NEBR	99	100	96
WASH	98	100	100					PA	92	90	85	N C	59	44	43
								S DAK	72	86	80	OHIO	92	100	99
15 STATES	94	95	NA	14 STATES	56	70	NA	VA				S C	52	30	39
EXCL. STATES WITH NA	95	96	97	EXCL. STATES WITH NA	53	69	59	WTS -				TENN	73	95	74
								17 STATES	84	97	88	18 STATES	86	90	87

WINTER WHEAT % EMERGED			
	1981	1980	AVG.
CALIF	25	2	NA
COLO	94	97	99
IDAHO	97	100	100
ILL	85	100	NA
IND	85	90	85
KANS	97	90	NA
MO	80	90	80
MONT	100	100	100
NEBR	100	100	NA
OHIO	85	99	90
OKLA	85	70	85
OREG	92	87	NA
S DAK	100	100	100
TEX	79	82	NA
WASH	92	94	NA
15 STATES	89	87	NA
EXCL. STATES WITH NA	89	87	90

THESE 14 STATES PRODUCED 99% OF THE 1980 COTTON CROP.

SORGHUM % HARVESTED			
	1981	1980	AVE
COLO	64	98	94
KANS	60	95	91
MO	76	96	85
NEBR	85	100	91
OKLA	55	90	81
S DAK	98	100	93
TEX	93	99	91
7 STATES	78	97	91

THESE 7 STATES PRODUCED 92% OF THE 1980 SORGHUM CROP.

THESE 15 STATES PRODUCED 88% OF THE 1980 WINTER WHEAT CROP.

NA - NOT AVAILABLE

THESE 17 STATES PRODUCED 93% OF THE 1980 CORN CROP.

THESE 18 STATES PRODUCED 95% OF THE 1980 SOYBEAN CROP.

NOVEMBER CROP PRODUCTION HIGHLIGHTS

CORN production is forecast at a record high 8.10 billion bushels, virtually unchanged from the October 1 forecast but 22 percent more than last year. This forecast is up 2 percent from the previous record set in 1979.

SORGHUM GRAIN production is forecast at 876 million bushels, up 49 percent from last year's drought-stricken crop.

FEED GRAIN production (corn, sorghum, oats, and barley combined) is expected to total 246 million metric tons, up 24 percent from last year's production of 198 million metric tons.

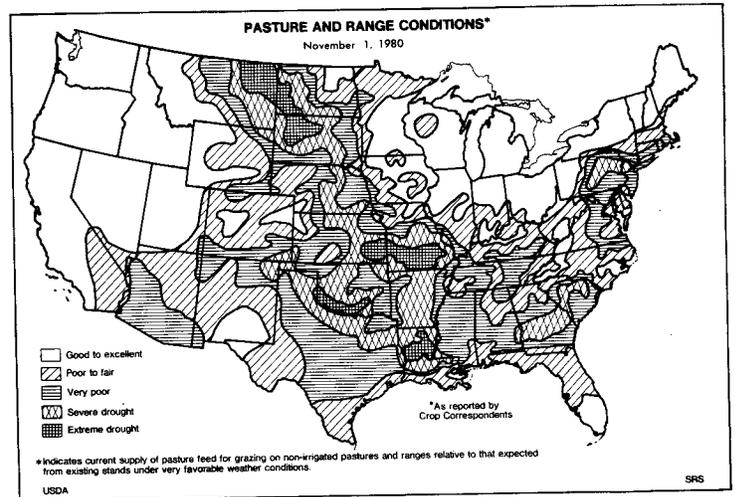
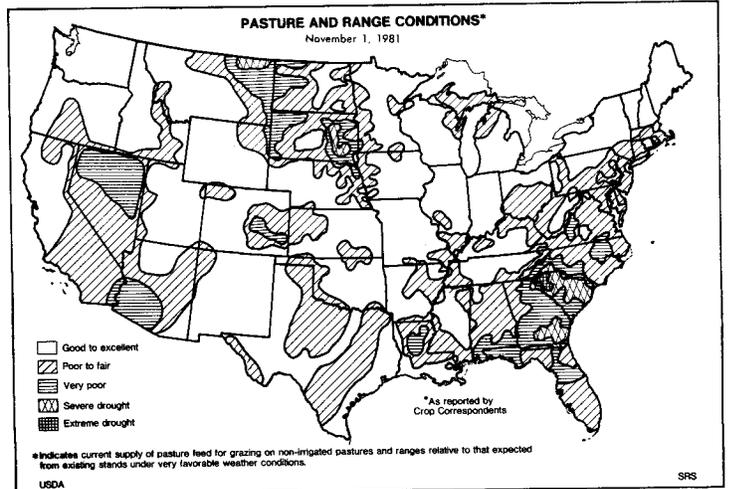
SOYBEAN production is forecast at 2.08 billion bushels, down 1% from last month's forecast but 16 percent above the 1980 crop.

OILSEED production (soybeans, cottonseed, peanuts, flaxseed and sunflowers) is forecast at 66.2 million metric tons, up 19 percent from last year.

ALL COTTON production is forecast at 15.6 million bales, up 1 percent from the October 1 forecast and 40 percent greater than in 1980.

ALL TOBACCO production is forecast at 2.03 billion pounds, 14 percent above last year's crop. Flue-cured production is up 5 percent and burley production is up 29 percent from a year earlier.

SUGAR CROPS: Sugarbeet production is forecast at 26.7 million tons, 14 percent above last year. Sugarcane production is expected to total 29.4 million tons, 9 percent greater than in 1980.



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 SRS State Offices in cooperation with the National Weather Service.

ALABAMA: Temperatures 1 to 2° sub-normal. Rains scattered; heaviest total 2.02 in. Brewton.

Fieldwork 5.3 days. Soil moisture short to adequate. Activities: Row crop harvest. Small grain seeding, pecan harvest, land preparation. Soybeans: 82% harvested, 84% 1980, 74% average. Cotton: 90% harvested, 93% 1980, 68% average. Sorghum: 90% harvested. Wheat: 70% seeded, 81% 1980, 79% average. Conditions: Wheat mostly fair; pastures fair.

ARIZONA: Mostly sunny, warm weather prevailed. Maximum temperatures upper 80's southwest Deserts, 70's central basins, 60's mountains. Average temperatures 2 to 9° above normal.

Cotton harvest excellent progress under ideal conditions - warm, dry. Harvest at peak or past all cotton growing areas; acreage 60% picked least once, compares 50%, 60% last year, average, respectively. Cotton ginnings about 25% ahead last year, but still well behind average. Yields reported generally very good. Harvest late sorghum continued, virtually all remaining crop at, nearing maturity. Alfalfa haying still active, continued ahead normal due unusually warm conditions. Sugarbeets continued very good progress. Land preparations, planting small grains, active, earliest plantings developing stands, especially western areas. Lettuce harvest rapidly being completed southeast, harvest central, western areas active but limited. Lettuce, especially western areas, all stages development. Mixed vegetable harvest, very good progress. Honeydew harvest slow but steady. Other mixed vegetables for late fall, winter making good growth, earliest plantings approaching maturity. Lemon harvest continued full swing Yuma area, increasing Salt River Valley. Harvest Navel, sweet oranges full swing Salt River Valley, good quality, sizes. Grapefruit, tangerine harvest continued but remained limited. Citrus groves mostly good condition, flushed new growth. Ranges higher elevations fair to good. Lower elevations, Deserts poor. Soil moisture, water supplies short to adequate. Fall roundup winding down.

ARKANSAS: Dry week, little rainfall. Highest temperature 75°, lowest 20°. All departures from normal ranged from 0 to -4°. Most rainfall 0.52 in., least zero.

Good soybean and cotton harvest progress made. Fields dried, six days fieldwork. Soil moisture adequate. Soybean harvest 69%, 76% 1980, 76% average. Cotton picked 82%, 97% 1980, 85% average. Wheat planted 63%, 85% 1980, 81% average; good germination and stands. Pastures and livestock good condition.

CALIFORNIA: On the last day of the week, a violent storm moved off the ocean bringing torrential rain, gale force or stronger wind, and thunderstorms to the northern third of the State. One and two inch totals were common and a few mountain stations just south of Monterey Bay reported 4 to 10 in. totals. The south was virtually dry. The snow level was high, seven to eight thousand feet, and central Sierra precipitation amounts were up to three and four inches. Mean temperatures averaged about 5° above normal. Heavy rains delayed harvest northern half.

Winter wheat planting continues 40% complete, 27% last year; 25% emerged. Rice harvest 95% complete. Cotton harvest 85% complete, 75% last year. Some sugarbeet harvest. Dry bean harvest

halted, some fields expected to be abandoned. Corn and milo harvest continues. Domestic demand strong for Desert grapefruit and lemons. High product elimination continued in lemons. Date, kiwi, and Emperor grape harvest continued. Olive harvest completed. Picking Hachiya and Fuyu persimmon continued. Navel orange harvest continued in early varieties. Pruning, fertilizing, irrigating, and weed control continued active in central and northern valley orchards. Broccoli harvest fairly heavy central and south coast. Melon harvest winding down Desert. Carrot harvest moderate Kern and Salinas districts. Cauliflower volume moderate coastal and San Joaquin Valley districts. Sweet corn harvest active Coachella Valley. Celery harvest heavy central coast. Lettuce harvest active San Joaquin Valley, central coast, increasing Palo Verde Valley. Market tomato harvest still active but slowing. Processing tomato harvest complete. Range, pasture making good development. Supplemental feeding continues few areas. Stock water supplies improving. Calving, lambing continue. Sheep continue to be moved alfalfa, stubble fields.

COLORADO: Scattered showers in north and light precipitation in the mountains over the weekend was the only moisture in the State. Average temperatures were 2 to 5° above normal most locations.

Winter wheat emerged 94%, 97% 1980, 99% average. Corn mature 99%, 100% 1980, 100% average. Grain harvest 73%, 95% 1980, 94% average. Sorghum ripe 99%, 100% 1980. Grain harvest 64%, 98% 1980, 94% average. Sugarbeets harvest 97%, 98% 1980, 99% average. Six days suitable for fieldwork. Weather ideal for harvest but moisture needed for winter wheat.

FLORIDA: A cool front spread cloudiness and rain into the Panhandle the 9th, then over Peninsula the 10th with clearing Statewide the 11th. Rainfall amounts averaged 1.00 in. Panhandle, north with 0.25 in. or less central, south. Remainder of week fair, dry, gradually cooler with light freeze or scattered frost interior Panhandle, north morning of 15th. Temperatures averaged 5° above normal early week, progressively clearing to 5 to 10° below normal by late week.

Soil moisture variable. Moisture short Panhandle, central counties; generally adequate southern area. Peanut harvest virtually complete. Soybean harvest making good progress. Yields reduced by drought. Cotton picking continues. Sugarcane harvest active. Small grain, winter grazing seeding active where moisture improved. Rainfall beneficial to pastures, winter grazing crops especially in many northern areas. Pastures mostly poor to fair, north; generally fair to good, southern Peninsula. Stands of some earlier planted winter grazing crops in north spotty due to dry soils during germination. Cattle condition mostly fair, north; fair to good southern Peninsula. Citrus groves good condition for winter season, clean cultivated and soil banked young trees for winter protection. Harvest gaining momentum. Clear to partly cloudy skies prevailed most of week in vegetable areas. Scattered showers occurred early week. Rainfall light most areas. Weekend temperatures lower. Daytime highs mostly in 70's, 80's; nighttime lows in 50's, 60's. Volume most crops

increased. Total vegetable shipments up 22% from previous week. Harvest gained snap beans, cabbage, carrots, celery, chinese cabbage, sweet corn, escarole, lettuce, parsley, peppers, squash, tomatoes. Supplies about steady cucumber, eggplant. Volume declined okra, radishes, southern peas. Strawberry plant growth very good Hillsborough-Manatee area. Limited supply fall watermelons, cantaloupes available. Quality, size good.

GEORGIA: Temperatures averaged near normal, upper 40's mountains to near 60° south. No significant rainfall north but 1.00 to 2.00 in. south. No rain 14th and 15th. Little change in temperatures.

Soil moisture adequate southern third, short to adequate central third, very short to mostly short northern third. Four days suitable for fieldwork south, 5 days mid-State, 6 days north. Harvest and small grain planting main activities. Soybeans mostly fair to good, 62% harvested, last year 56%, average 54%. Cotton 99% open, last year 100%, 87% harvested, last year 96%, average 76%. Corn and peanut harvest virtually complete. Pecans fair to good, 42% harvested, same as last year, average 41%. Apple harvest 99% complete, equal last year. Small grains: wheat 44% planted, last year 54%, average 58%; rye 75% seeded, last year 80%, average 72%; other small grains, 65% seeded, last year 75%, average 70%. Pastures, cattle and hogs fair to good.

HAWAII: Weather favorable. Crops improved. Yield and quality up for some leafy crops. Periodic rains kept soil moisture adequate. However, spraying intensity up in some wet areas. Vegetables: Supplies increasing for head and Chinese cabbage. Others still adequate. Bananas: Supplies up. Papayas: Spray schedule intensified in wet areas. Some seasonal decline in production. Pineapples: Light harvest. Sugar: Harvest continues to decline. Pastures: Rains beneficial. However, more rains needed in the leeward pastures.

IDAHO: Temperatures ranged from 1 to 9° above normal. High of 66° in Boise, low of 12° in Stanley. Precipitation ranged from a trace to 0.93 in.

Farmers were busy winterizing their equipment and finishing up fall fieldwork. Sugarbeet harvest and corn combining continued until 12th when the rains came. Most livestock moved down from the mountains and the cattle and sheep appear to be in good condition. Feed supplies abundant.

ILLINOIS: Temperatures 2° above to 1° below normal. Precipitation none to trace in most areas, scattered showers as much as 0.60 in.

Corn 89% harvested, 98% 1980, 91% average. Soybeans 97% combined, 100% 1980, 98% average. Winter wheat 92% seeded, 100% 1980, and 99% average; 85% emerged, 100% 1980; condition 16% excellent, 69% good, 13% fair, and 2% poor. Corn and soybean acreage 45% tilled, 55% 1980, and 52% average. Pastures 9% excellent, 66% good, 20% fair, 5% poor. Soil moisture 8% short, 73% adequate, 19% surplus. Fieldwork: 6.0 days suitable.

INDIANA: Dry week. Temperatures averaged near normal and ranged from 18 to 65°. Rainless in north half. In south, rainfall averaged 0.20 to 0.50 in. Sunshine 74% of possible and low humidities favored excellent drying rates.

Fieldwork averaged 6 days. Topsoil and subsoil moisture adequate. Corn 75% harvested, 1980 97%, average 85%. Soybeans 94% combined, 1980 99%, average 97%. Moisture content: Corn 25%,

soybeans 14%. Wheat 97% seeded, 1980 99%, average 99%. Wheat 85% emerged, 1980 90%, average 85%. Wheat stands mostly good. Spring cropland 30% plowed, 1980 60%, average 35%.

IOWA: A warm, dry week. Measurable rain eastern the 15th. Four-inch soil temperatures modified into the mid-to-upper 40's by the week's end. Topsoil moisture: 9% short, 87% adequate, 4% surplus. Subsoil moisture: 25% short, 70% adequate, 5% surplus.

Corn acreage harvested: 90%, 1980 100%, normal 91%. Soybean acreage harvested: 100%, 1980 100%, normal 98%. Fall plowing completed: 35%. Fertilizer application complete: 34%. Fieldwork: 6.7 days suitable. Livestock reported to be in mostly good condition.

KANSAS: Precipitation averaged little or none northwest and extreme north, 0.25 in. to 0.75 in. elsewhere. Temperatures averaged 48 to 49° or 1° above normal southeast and 3 to 8° above normal elsewhere.

Mostly dry week allowed drenched fields to begin to dry. Muddy fields restricted field access in east. Wheat planting still 97%, last year 99%, average 98%. Wheat emerged 97%, last year 90%. Wheat condition good to excellent. Corn harvested 85%, last year 99%, average 95%. Soybeans harvested 75%, last year 95%, average 90%. Sorghum harvested 60%, last year 95%, average 90%. Fieldwork: 3.0 days suitable.

KENTUCKY: It was dry and mild over the State. All stations reported little or no precipitation. Temperatures averaged just about normal.

Topsoil moisture short to adequate, subsoil short. Harvesting weather ideal. Soybean harvest 84% complete compared to 96% last year and average of 92%. Corn harvest nearing completion in many areas. Statewide 93% complete, last year 97%, average 90%. Fall wheat seeding over 90% complete. Stripping of burley tobacco 46% complete ahead of last years 32% and average of 36%. Burley market opens 23rd.

LOUISIANA: Virtually no rain. Temperatures averaged 1 to 3° below normal.

Soil moisture short to adequate. Days suitable: 5.6. Cotton harvested 95%, 99% 1980, 92% average; condition fair. Soybean harvest 83%, 92% 1980, 93% average; condition fair. Sugarcane harvested 48%, 40% 1980, 46% average; condition good. Sweet potatoes harvested 99%, 98% 1980, 95% average. Vegetables rated fair to good. Pecans rated fair; harvest continues. Wheat seeded 48%, 85% 1980, 87% average; wheat emerged 31%, 62% 1980. Condition fair to good. Pasture rated fair to good. Livestock rated fair to good. Final hay cutting virtually complete.

MARYLAND AND DELAWARE: Weather warm and dry. Temperatures 1° above normal. Highs average low 50's, lows average low 40's. Precipitation light. Statewide average was 0.03 in.

Fall fieldwork nearing completion. Maryland: corn 93% harvested, equal to last year. Soybean harvest 75% also equal 1980. Wheat plantings at 98%, slightly ahead. A few rye fields left to seed. Tobacco stripping 15% done. Fieldwork: 6 days suitable. Delaware: corn harvest virtually completed. Soybean harvest 80%, last year 75%. Wheat seedings 90%, slightly ahead. Seven days for fieldwork. Soil moisture supplies stable in both States. Topsoil adequate. Subsoil short in lower half of both States.

MICHIGAN: Exceptional weather as a high pressure area near or over the State kept the skies mostly

clear. There was little or no precipitation last week, significantly reducing monthly totals. Temperatures ranged from normal to 11° below normal. This was due mainly to cold northern air during the first part of the week. By the week's end temperatures were running near to above normal.

It was another good week as producers continued to convert crops in the field to grain on the trucks. Third week of sunny weather continued to dry wet fields that have been dominant throughout the harvesting season. Producers were generally able to harvest in full swing without the worry of stalling their equipment. There were 7 days suitable for fieldwork. Corn harvested advanced to 75%, last years 85% and average 81%. Moisture percentage high in corn with 24%. Soybean harvest progressing well with 90% complete, last year 95% and average of 92%. Early planted winter wheat has been reported at a normal growth rate. Later planted wheat growth slowed by cool ground temperatures and will benefit greatly from warm sunny days.

MINNESOTA: Temperatures averaged 7° above normal southeast to 14° above normal northwest. An area just west of the twin cities to the South Dakota border ranged from 16 to 19° above normal. Extremes: 69° at Browns Valley to 6° at Pipestone. Precipitation averaged below normal everywhere except extreme northwest where rainfall was 0.10 to 0.20 in. above normal. Elsewhere precipitation ranged from 0.20 to 0.40 in. below normal.

Another excellent week for harvest. Entire week warm and dry. Farmers harvested row crops and completed fall work everyday. Low spots drying down so farmers were able to harvest them. Topsoil moisture rated 9% short, 78% adequate, and 13% surplus. Harvested: field corn 89%, 1980 99%, normal 90%; soybeans 98%, 1980 99%, normal 98%; sunflowers 94%, 1980 99%, normal 94%.

MISSISSIPPI: Showers over south half of State early in week. Greatest 24-hour rainfall 0.66 in. Temperatures about 2° below normal. Extremes: 25 and 78°.

Soil moisture short to adequate. Days suitable for fieldwork: 5.9. Cotton 95% harvested, 95% last year, 87% average. Soybeans 80% harvested, 78% last year, 80% average. Pecans 48% harvested; sweetpotatoes 95% harvested. Winter wheat 73% planted; condition good to fair. Pasture condition fair. Livestock condition fair to good.

MISSOURI: Temperatures averaged 2 to 3° above normal. Precipitation was sparse. Northern and southern sections of the State received only a trace, while the central section averaged from 0.33 to 1.00 in. of precipitation.

Fieldwork: 4.2 days suitable. Corn 84% harvested, last year 97%, normal 85%. Grain sorghum 76% harvested, last year 96%, normal 89%. Soybeans 81% harvested, last year 96%, normal 87%. Winter wheat 84% seeded, last year 94%, normal 85%. Fall plowing 45% completed, last year 60%, normal 48%. Cotton 80% harvested, last year 95%, normal 88%. Condition of winter wheat and pasture fair to good. Supply of topsoil moisture adequate to surplus.

MONTANA: Temperatures very mild and averaged from near normal over foggy areas of west to about 13° above normal in windy parts of central areas. Highest 68° at Broadus and Roundup, lowest 8° at Wisdom. No precipitation first four days. Precipitation fell almost daily after that, except for south central, northeast and southeast, with from 0.50 to 0.75 in. over

some of west and southwest. Lesser amounts elsewhere.

Topsoil moisture short southeast, short to adequate elsewhere. Subsoil moisture short eastern third short to adequate rest of State. Winter wheat condition fair north central and southeast, fair to good elsewhere. Very little wind damage. About 15% of cattle and 20% of sheep getting supplemental feed. Condition of winter pastures and ranges fair to good.

NEBRASKA: Precipitation: practically none. Temperatures: 5 to 12° above normal. Warm, dry weather allowed harvesting to move into high gear. Corn 75% harvested, 99% last year, 80% normal. Soybeans 99% combined, 100% last year, 96% normal. Sorghum 85% harvested, 100% last year and 90% normal. Winter wheat mostly good. Pasture and range feed supplies mostly adequate. Topsoil and subsoil moisture mostly adequate to short. Days suitable for fieldwork: 6.7.

NEVADA: Weather was wet and warm western part of State and dry southern areas. Rainfall amounts on Nevada side of the Sierra were between 3.00 and 4.00 in. Between 0.25 to less than 1.00 in. was common over northwest. Only traces received central and southern areas. Cold air accompanied this storm but snow levels remained relatively high due to subtropical air.

Livestock condition remains fair to good. Supplemental feeding necessary most areas. Other farming and ranching activities light.

NEW ENGLAND: Temperatures generally subnormal, warmest 10th, coldest 12th and 13th. Precipitation midweek. Few places received measurable amounts; Brunswick, Maine 0.39 in. on 12th. Rain and drizzle late 14th and 15th. Measurable amounts on 15th; Chatham, MA. 1.01 in.; Boston, MA. 1.46 in., Ayer, MA. 1.50 in.; and South Weymouth, MA. 1.69 in.

NEW JERSEY: Temperatures were 3 to 4° below normal averaging 41° north, 44° south and 46° coastal. Extremes: 15° at Newton and 67° at Hammonton. Precipitation was well below normal, with little or no rain recorded for the week ending the 14th. Heaviest 24-hour total reported was: 0.11 in. at Long Branch and New Brunswick.

Topsoil moisture adequate to excessive. Harvest of soybeans and corn for grain continues as conditions permit. Limited amounts of hardy vegetables continue to move to market. Some fruit pruning begun.

NEW MEXICO: Open weather enabled all farm ranch activities to proceed unhampered. Early morning light freezes and sunny days prevailed.

Cotton harvest past mid-point south, starting northern areas. Harvest grain sorghum, red chile remains active; corn and lettuce nearing completion; pecans started, but still limited. Winter wheat and barley growing well, grazing widespread. Ranges, livestock mostly good condition, some shipping to winter ranges and market continues.

NEW YORK: Temperatures averaged a bit below normal. Coolest midweek. Precipitation well below normal in most areas, near normal extreme southeast and southwest. Grain corn harvest continues.

NORTH CAROLINA: Temperatures: 5 to 6° below normal in the Coastal Plain; 1 to 2° below normal in the Piedmont; near normal in the Mountains. Precipitation: Near 0 at most reporting stations to 0.87 in. at Cape Hatteras.

Soil moisture: 14% very short, 49% short, 37% adequate. Fieldwork: 5.9 days suitable. Harvest: Cotton 85%, 1980 93%, 73% average; sorghum grain 90%, 1980 86%, 87% average; soybeans 59%, 1980 44%, 43% average; corn for grain 97%, 1980 97%, 96% average. Plantings: Wheat 77%, 1980 80%, 74% average; oats 89%, 1980 88%; barley 89%, 1980 88%; rye 65%, 1980 76%. Conditions: Small grains fair to good; pasture mostly fair. Major farm activities: Harvesting soybeans and planting small grains.

NORTH DAKOTA: Dry and very mild weather continued. Temperatures averaged 10 to 16° above normal. Extremes: 70° southwest 12th to 7° west central 10th. Precipitation averaged below normal, most only 0.07 in. northeast.

Continued nice weather allowed farmers to virtually finish remaining harvest. Only scattered fields of sunflower and corn to be harvested in next few days. Fall tillage and fertilizer application also drawing to an end. Some problems with temperature and moisture buildups in stored grain. Dry, warm weather helped conserve livestock feed supplies. Much grazing still possible. Lack of precipitation reducing topsoil moisture levels. Northeast quarter still adequate but short or getting short elsewhere.

OHIO: After some rain in south early, sunny skies prevailed and dry weather provided good harvest conditions. Rain totals: 0 to 0.60 in. High temperatures averaged in the low to mid 50's in most areas, as much as 4° above normal. Lows averaged in the mid to upper 20's, 4 to 8° below normal. Soil temperatures, 4 in. under bare ground averaged in the low to mid 40's. Highest values were around 50°. Sod soil temperatures at same depth averaged 1 to 3° higher.

Corn harvest still lagging because of high moisture content of grain in fields. Test weights of harvested grain have been low. Fields yet unharvested being damaged by mold and stalk rot. Remaining soybean fields are those planted in late June and July and are of poorer quality. Beans in those late planted fields generally very small and many are moldy. Off-farm storage has been plentiful; on-farm storage was reported tight in some localities. Corn for grain harvested 75%, 98% 1980, 85% average. Soybeans harvested 92%, 100% 1980, 99% average. Sugarbeets harvested 96%, 100% 1980, 100% average. Wheat emerged 85%, 99% 1980, 90% average. Wheat planted 99%, 100% 1980, 100% average. Days favorable: 6.5. Pasture condition fair to good. Soil moisture 10% short, 90% adequate.

OKLAHOMA: Precipitation amounts were very light, ranging from a trace in the northeast, east central and southwest divisions to 0.05 in. in the southeast division. All other divisions reported no rain. Temperatures averaged 3° below normal south central to 2° above normal north central division.

Harvest operations fall crops little progress due wet fields and poor drying weather. Cotton yields down some fields southwest district as cool wet fall kept bolls from opening properly. Turning cattle wheat fields delayed muddy conditions. Wheat good growth. Wheat planted: 95%, 90% 1980, 95% average. Wheat emerged: 85%, 70% 1980, 85% average. Wheat grazed: 15%, 5% 1980, 5% average. Sorghum harvested: 55%, 90% 1980, 80% average. Cotton harvested: 10%, 55% 1980, 25% average. Days suitable fieldwork: 2.9.

OREGON: Temperatures averaged 4° above normal. Rainfall in the latter half of the week averaged 2.60 in. along the coast, and a little over 1.50 in. in valleys west of the Cascades. Eastern portion of the State received amounts ranging from

0.20 to 0.40 in. with the least amount reported from the northeastern extreme of the State. Wind storms moved into the State late 13th and early 14th causing considerable damage west of the Cascades. Little moisture accompanied the storms.

Soil moisture supplies mostly adequate. Winter wheat condition fair to excellent; some reseeded still to emerge; 92% emerged; 87% last year. Herbicides being applied. Potato harvest virtually complete. Livestock condition good. Range and pasture continue to improve. Feed supplies adequate.

PENNSYLVANIA: Cool, partly sunny, and mostly dry. Temperatures near to 3° below normal and 8° cooler than previous week. Extremes: 65 and 10°. Frost and freezing several mornings mid-period with killing frost Statewide on 13th. Light showers provided less than 0.25 in. rainfall western half of State, 0.50 in. most eastern half with up to 1.00 in. northeast. Five days suitable. Soil moisture adequate. Activities: Spreading manure, lime, and fertilizer; pruning fruit trees; stacking corn stover; and harvesting corn and soybeans. Corn for grain 77% harvested compared with 90% harvested last year and the average of 75%. Soybeans 79% harvested, last year virtually complete at this time. Feed from pasture average to below average.

PUERTO RICO: Island average rainfall 1.57 in. or 0.11 in. above normal. Highest total 7.95 in. Temperatures averaged about 81 to 80° on Coasts and 76 to 73° Interior Division. Extremes: 96 and 55°.

SOUTH CAROLINA: Temperatures cooler than usual in most areas. Below freezing over western and central areas with frost or freeze in coastal areas. Rain fell 10th, amounts negligible.

Soil moisture short. Six days available for fieldwork. Cotton 92% harvested, 94 a year ago, and 85 average. Yields above normal. Soybeans 97% mature, 79 last year, and 91 average; 52% harvested, 30 year ago, 39 average. Beans small, some yields better than expected. Winter grazing 85% planted, 93 last year, 89 average; 70% emerged, 84 previous year, 81 average. Fall snap beans 89% harvested, 90 a year ago. Cucumber harvest complete. Pastures poor to fair condition, small grains fair to good.

SOUTH DAKOTA: Almost no precipitation. Temperatures 4 to 15° above normal. Extremes: 10 and 75°.

Topsoil moisture critically short much of northwest, west central, central and north central and small parts east central and northeast. Small areas reported adequate in south central, east central and northeast. Short elsewhere. Six days suitable. Row crop harvest, fall tillage, fertilizing, fencing, marketing. Livestock major activities. Feed supplies mostly adequate. Water supplies short many areas. Corn harvested 94%, 1980 98%, average 90%. Sorghum harvested 98%, 1980 100%, average 93%. Sunflowers harvested 96%, 1980 99%, average 96%.

TENNESSEE: Fair weather continued until a weak cold front brought rain to the area on 15th. Temperatures were near normal with average low temperatures ranging from near freezing at Bristol to near 40° in the west. High temperatures averaged in the low to mid 60's.

Soil moisture mostly adequate. Fieldwork: 5.6 days suitable. Cotton 82% picked, 1980 99%, average 74%. Soybeans harvested 73%, 1980 95%, average 74%. Corn harvested 92%, 1980 95%,

average 78%. Burley tobacco 74% stripped, 1980 68%, average 66%. Pasture condition fair. Cattle in good condition and some supplemental feeding continues. Fall plowing 85% complete, 1980 87%, average 85%. Wheat seeding 82% complete, 1980 92%, average 83%. Oats seeding 96% complete, 1980 97%, average 94%.

TEXAS: Weather: Fair dry weather occurred past week. Temperatures near normal over most of State, northern Panhandle above normal by a few degrees, Lower Valley slightly below normal. No appreciable rainfall occurred over the entire State.

Crops: Cool nights, warm days combined with little rain allowed producers to make good progress on fieldwork. Cotton harvest picked up pace as warm, dry conditions helped maturing, boll opening. Defoliation continued High Plains. Light freeze killed many plants, should help harvesting progress. East Texas harvest gained momentum as fields dried. Condition Statewide 5% excellent; 61% good; 32% fair; 2% poor. Open weather allowed sorghum harvest to move closer to completion. Plains, fields drying, harvest progressing well. Small grains making excellent progress, stands showing good growth. Fields in Cross-Timbers drying, planting resumed. Oat stands in good condition, providing limited grazing. Greenbugs, armyworms continued problem Central, South Pecos. Disease problems light, damage minimal. Wheat stands showing good growth, providing good grazing. Wheat condition 23% excellent; 66% good; 8% fair; 3% poor. Peanut harvest continued, fields drying and harvest moving steadily. Some losses due to heavy rains. Edwards Plateau harvest virtually complete. Soybean harvest slowed by wet fields. Yields hurt by excess moisture. Cotton open bolls 88%, 96% 1980. Cotton harvested 36%, 59% 1980, 49% average. Sorghum mature 100%, 100% 1980. Sorghum harvested for grain 93%, 99% 1980, 96% average. Wheat planted all purposes 88%, 90% 1980, 93% average. Wheat emerged 79%, 82% 1980. Corn for grain harvested 100%, 100% 1980, 100% average. Peanuts harvested 63%, 69% 1980, 87% average. Pecans harvested 32%, 22% 1980, 30% average. Soybeans harvested 56%, 76% 1980, 82% average. Sugarbeets harvested 68%, 37% 1980, 65% average. Sunflowers harvested 75%, 76% 1980, 89% average. Oats planted 85%, 89% 1980, 90% average.

Commercial vegetables: Rio Grande Valley, conditions remain favorable, bell peppers, tomatoes, cabbage making good growth. Harvest of cabbage expected soon. Harvest of early oranges, grapefruit continued, fruit showing good size, quality. Coastal Bend, fall planted vegetables progressing well. Harvest of cucumbers continued. San Antonio-Winter Garden area, cabbage harvest continued, carrot harvest into full swing. Yields for cabbage, carrots good. Frost did some damage to tomato plants. East Texas, sweetpotato harvest complete, yields affected by excess moisture. Tomatoes, peppers showing good growth. Trans-Pecos region, harvest of bell peppers virtually complete. Harvest of cabbage, lettuce active, planting of onions, carrots continued. Pecan harvest at steady pace. Yields good to excellent, quality fair to good.

Range and livestock: Range, pasture condition good, frost slowed growth in some areas. High Plains, grazing of small grain fields increasing. In Central, South Texas, pastures providing some grazing, supplemental feeding continues. Livestock in generally good condition.

UTAH: Few isolated showers latter part period. Accumulated amounts moisture generally light. Average temperatures above normal in all areas. Averages ranged from 3 to 8° above normal.

Corn for grain harvest progressing as rains permit. Soil preparation continues. Planting of winter wheat and barley virtually complete. Turkey slaughter and processing continues. Breeding range ewes for spring lambing in progress.

VIRGINIA: Dry and cool over western half of State. The 9th through 13th were dry and cool over eastern half but over the weekend a low pressure storm system moved north along the coast spreading cloudy skies and scattered precipitation over the east. Rainfall ranged from a trace at Richmond to 0.33 in. at Norfolk. Temperatures averaged near to a little below normal.

The weather favored outdoor activities and fieldwork and farmers advanced crop harvest progress and small grain plantings. Soil sampling, shredding crop residues, turning fields and planting cover crops were also active. Topsoil moisture: 55% short, 45% adequate. Days suitable for fieldwork: 5.8. Corn for grain 92% harvested, 90% 1980, 85% average. Soybeans 64% combined, 43% 1980, 50% average. Harvest of grain sorghum 69% complete, 45% 1980, 50% average. Cotton 50% picked, 100% 1980 and average. Seeding of wheat 80% complete, 71% 1980, 69% average. Barley 97% seeded, 94% 1980, 91% average. Pastures rated in good condition; winter grain and grazing crops also in good condition. Beef cattle and sheep getting the majority of their roughage from grazing.

WASHINGTON: West: Average temperatures were well above the normals. Rainfall amounts were 0.20 to 0.40 in. above normals on the coast and in the south interior; about 0.20 in. below normals in the north interior. Farm activities were slowed though some crops were harvested. Those crops included carrots, cauliflower, and celery. Other activities included general maintenance, ditching fields, liming and caning raspberries. Hay supplies remained adequate.

East: Average temperatures were 4 to 6° warmer than normals. However, rainfall totals were generally 0.10 in. below the normals. Soil moisture generally adequate to good with fall grain seeding about finished. Reseeding due to cheat grass and crusting has been done. Grain corn and potato harvest continued. Orchard maintenance getting underway as are various meetings as the crop year is about wrapped up.

WEST VIRGINIA: Temperatures averaged 3° below normal. High 66°, low 14°. Precipitation well below normal.

Soil moisture adequate to short. Days suitable for fieldwork: 5.1. Pasture fair to poor. Livestock feeding beginning. Corn 83% harvested.

WISCONSIN: Unseasonably rainy weather dominated. Temperatures averaged 2° above normal. High temperatures were mostly in the 50's while the lows were mostly in the teens. The highest temperature 62, was recorded in Mondovi on the 13th. The State's cool spot was Baldwin which recorded 13° on the 9th. A weak cold front moved into the State over the weekend but brought no significant rainfall. Rainfall was negligible as most districts reported none.

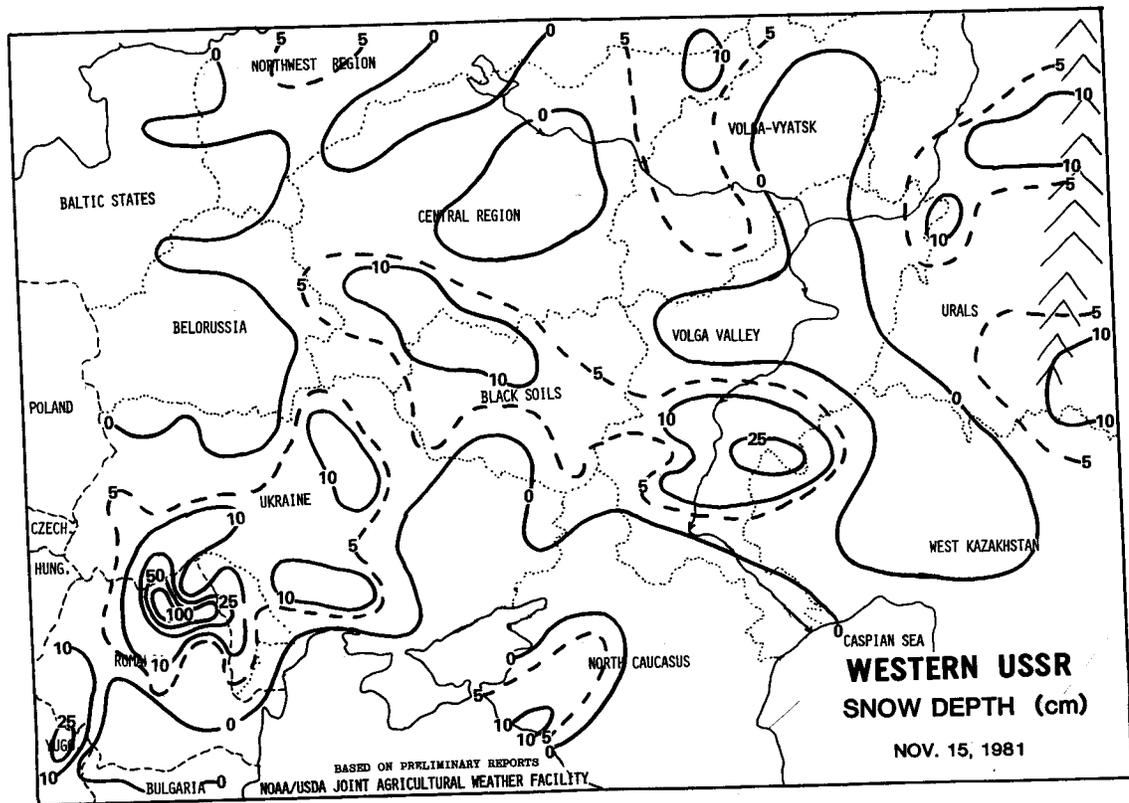
Fieldwork: 7 days suitable. Unseasonably warm and dry weather enabled farmers to make exceptionally good harvesting progress. The 1981 corn harvest 72% complete, 86% 1980, 80% average. Warm, dry weather has helped to

(continued on backcover)

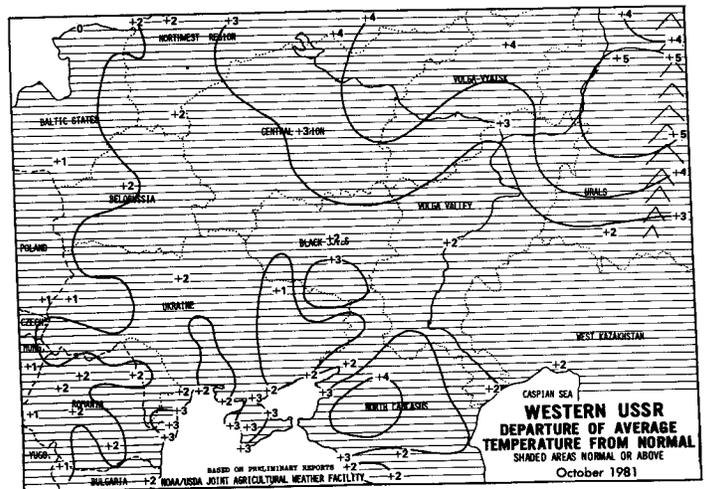
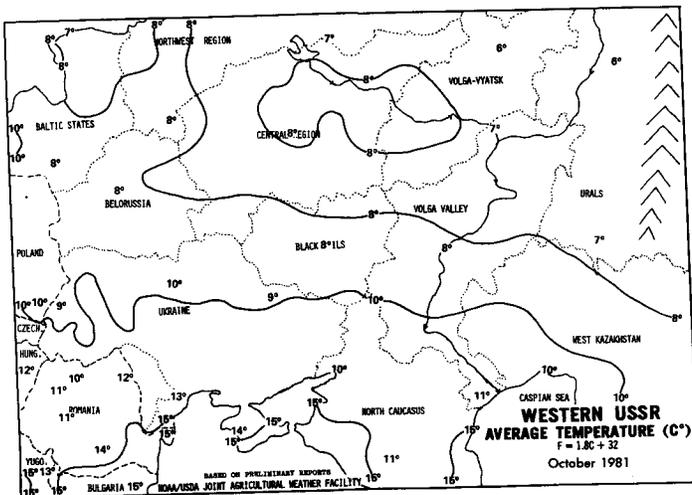
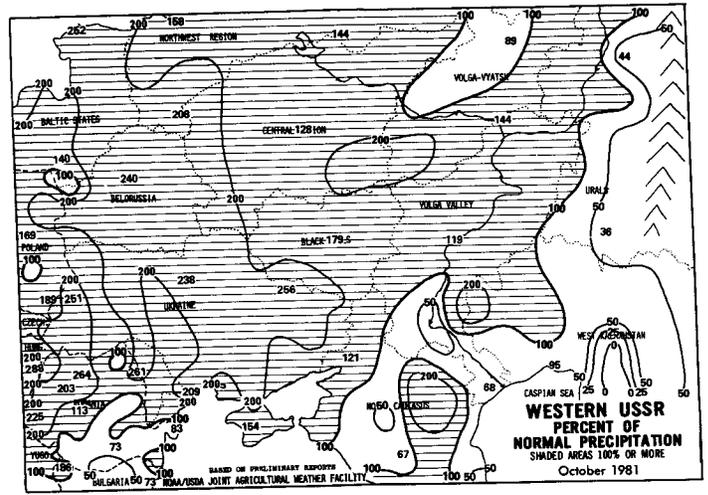
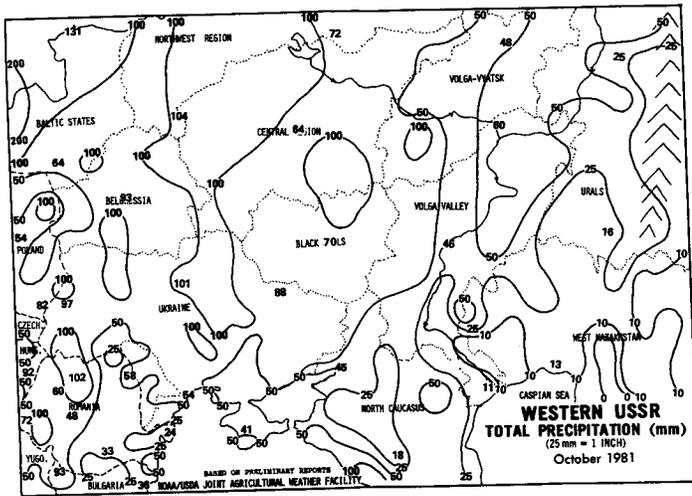
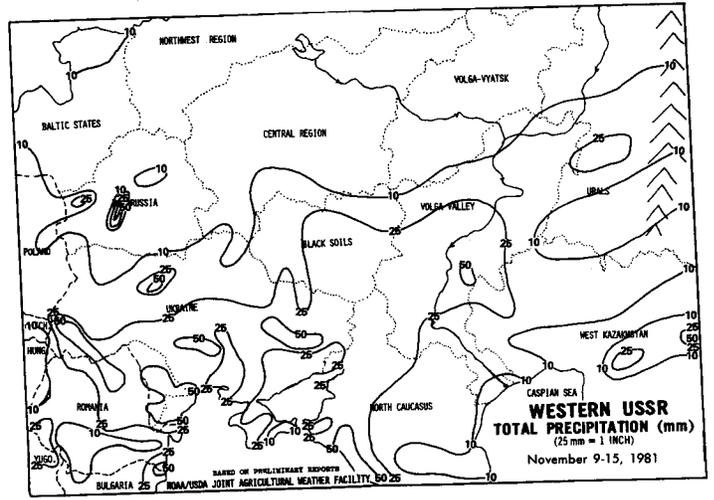
International Weather and Crop Summary

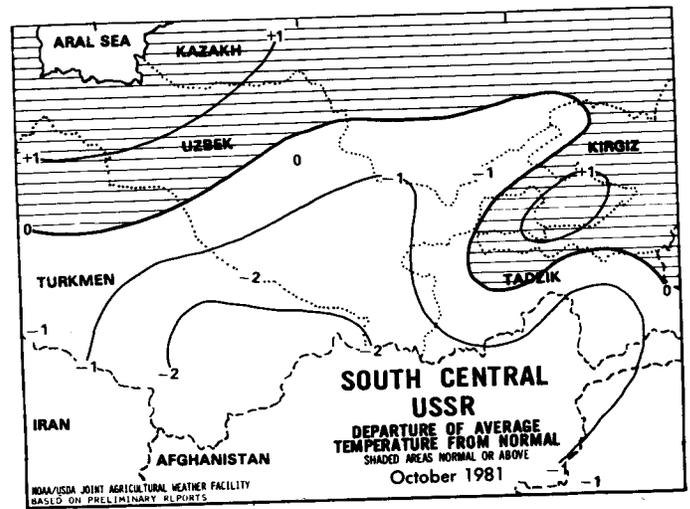
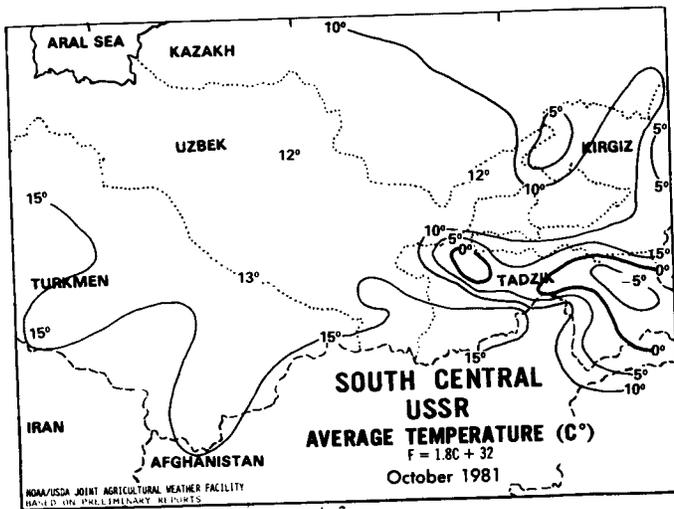
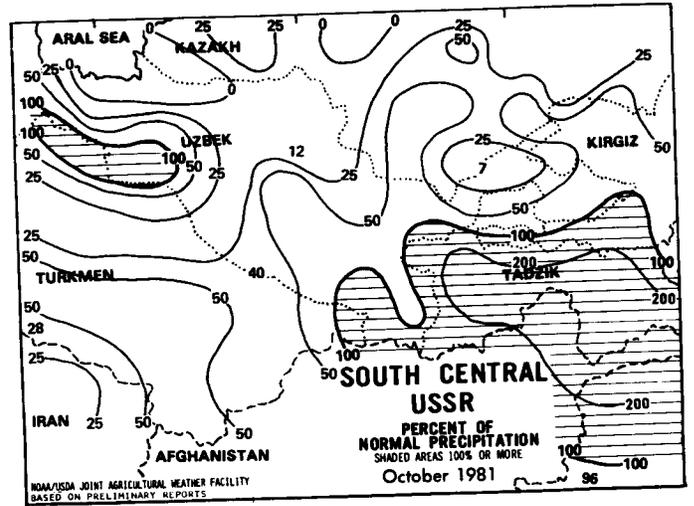
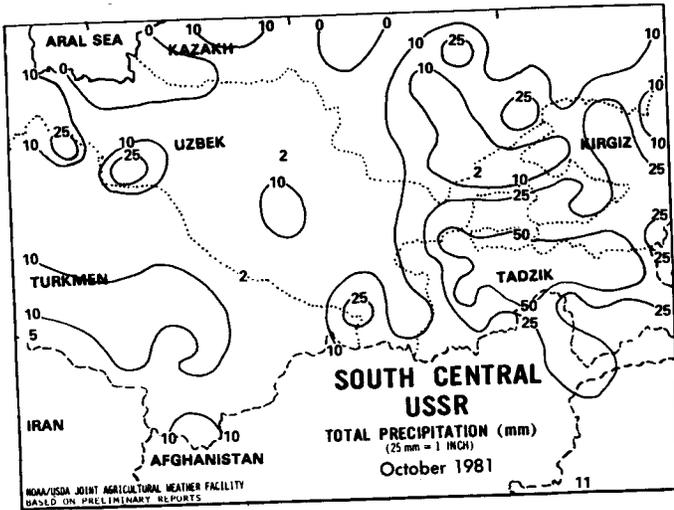
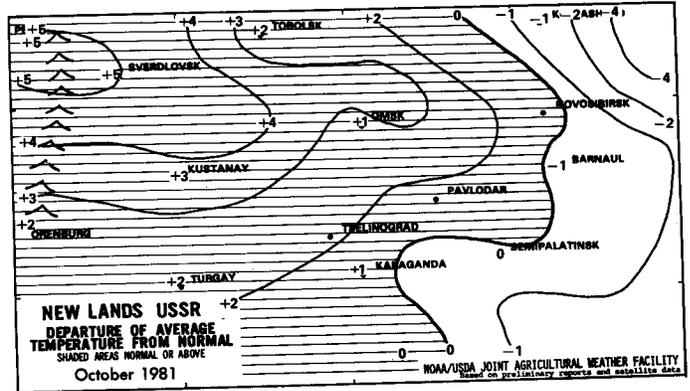
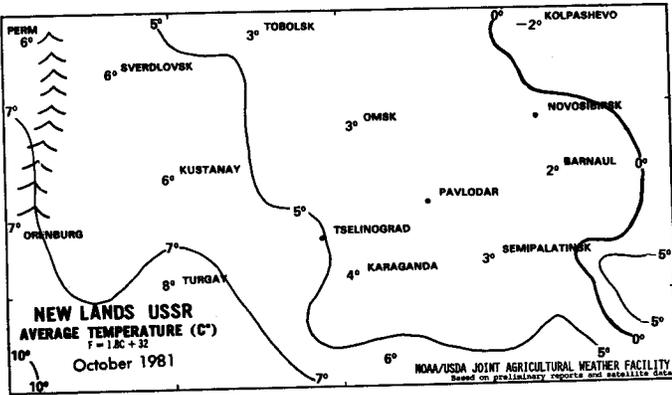
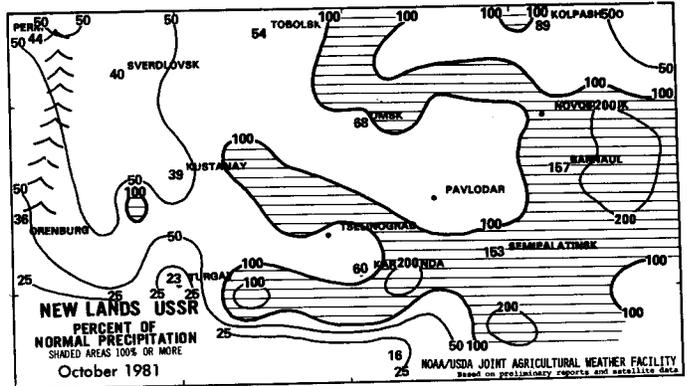
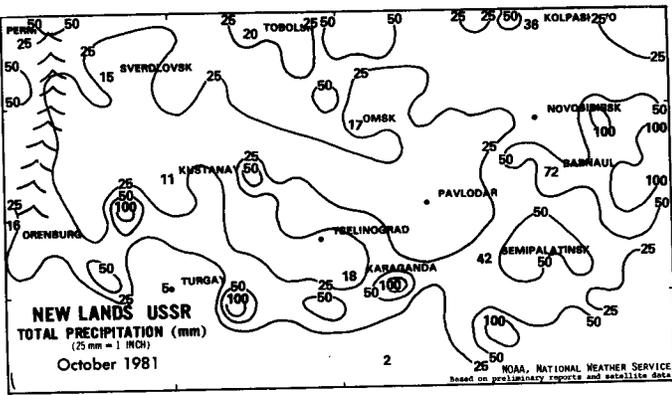
HIGHLIGHTS
November 9-15, 1981

- USSR: Continued abundant precipitation left some snow over winter grains; some growth in parts of the North Caucasus.
- EUROPE: Still too dry in southern Spain; cold weather halts winter grain growth in most areas.
- NORTHWESTERN AFRICA: Conditions remain too dry in Morocco and western Algeria.
- SOUTH AFRICA: Beneficial showers in many areas of the corn triangle improves corn planting conditions.
- SOUTH ASIA: More beneficial rainfall for India's winter grains.
- EASTERN ASIA: Markedly drier weather.
- SOUTHEAST ASIA: Scattered showers as monsoon recedes to the south.
- AUSTRALIA: Beneficial rains in southern New South Wales, Victoria, and South Australia; continued dry weather in West Australia.
- SOUTH AMERICA: Showers in Argentina's coarse grain area; dry weather in Rio Grande do Sul aids wheat harvest.
- MEXICO: Excellent crop weather prevailed; however, West Coast crops suffered from October storms.

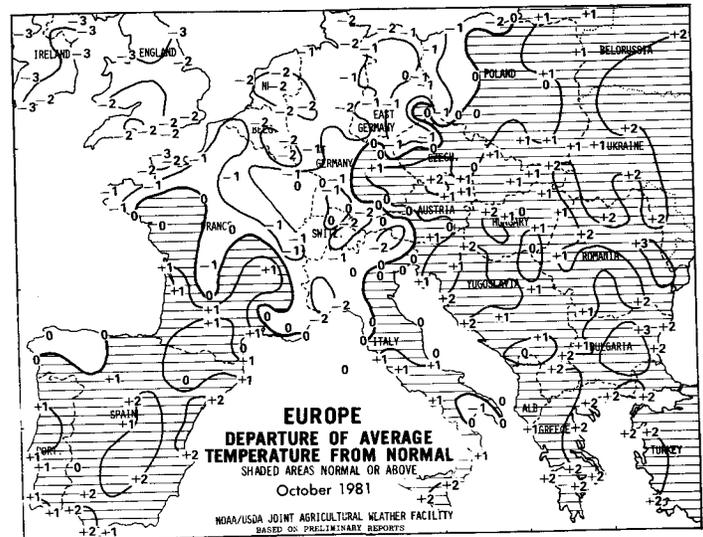
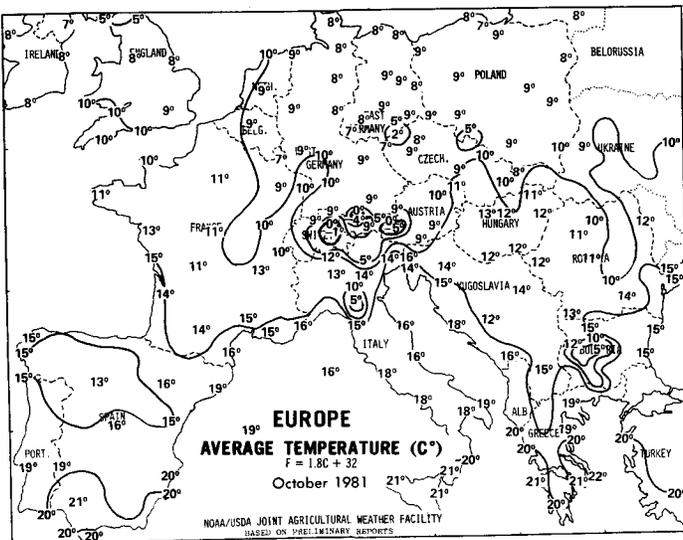
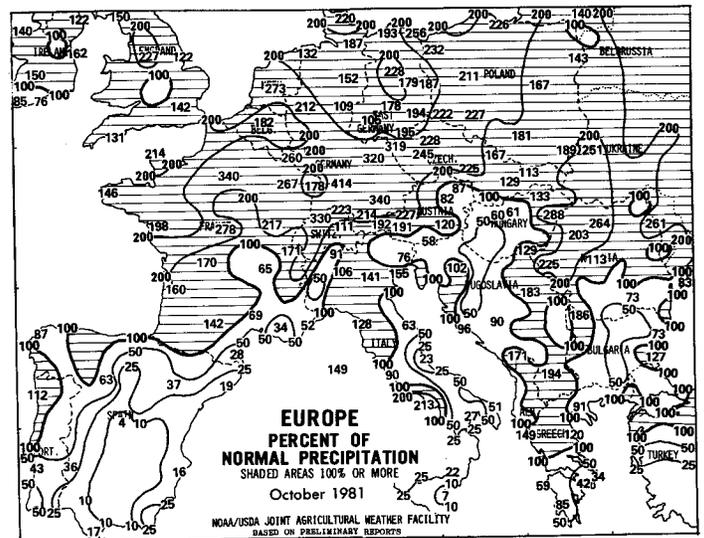
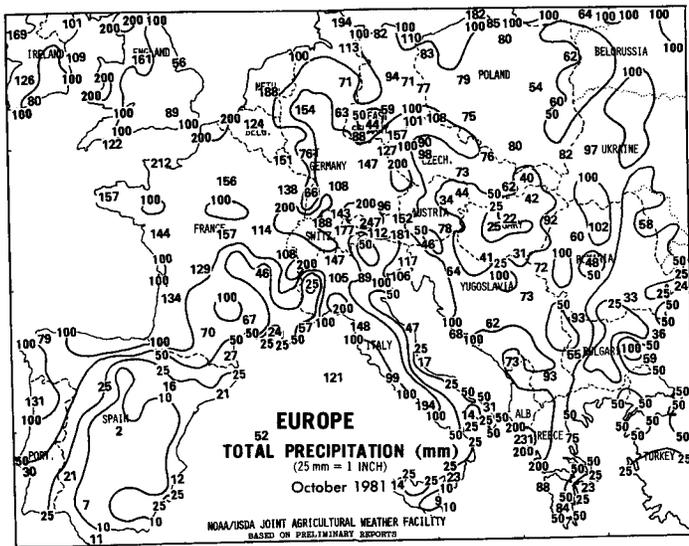
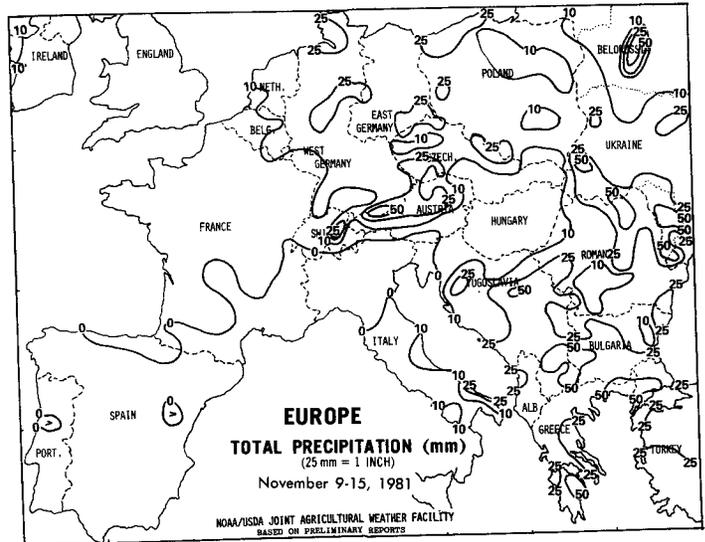


USSR: A vigorous storm moving out of the Mediterranean dumped above-normal precipitation on the winter grain belt, and left the first substantial snow cover of the season. Marginal growth continued only in parts of the North Caucasus, where temperatures remained above normal. Generous October precipitation in nearly all winter grain areas replenished soil moisture. Some drier areas in the North Caucasus have received above-normal precipitation in November, improving the moisture outlook for next spring. Sowing and growing conditions have been so good that winter grains may have put on too much growth in some areas, making them more susceptible to winterkill. Cotton harvesting weather remained favorable, with only scattered light precipitation. Some cotton-growing areas had above-normal precipitation in October, but amounts were generally not enough to cause harvesting problems.

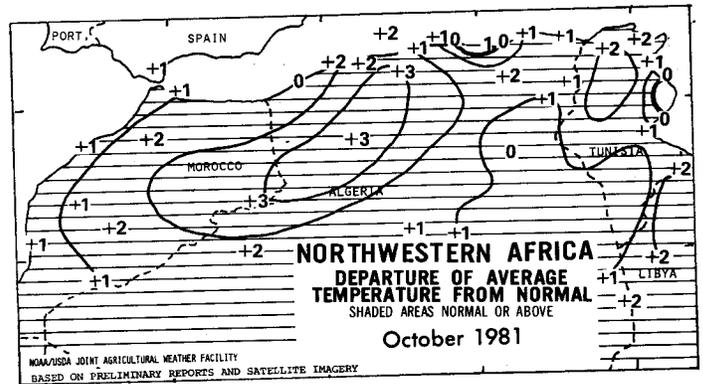
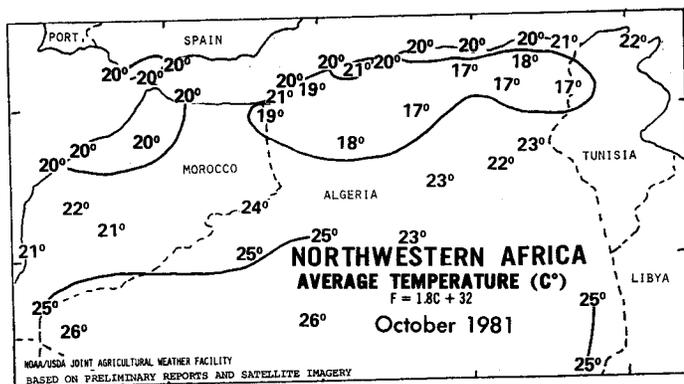
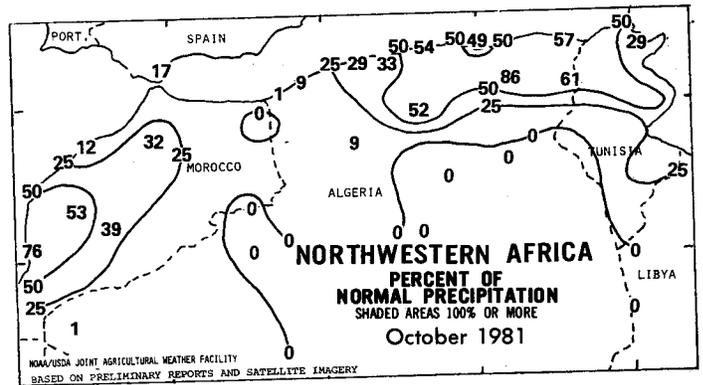
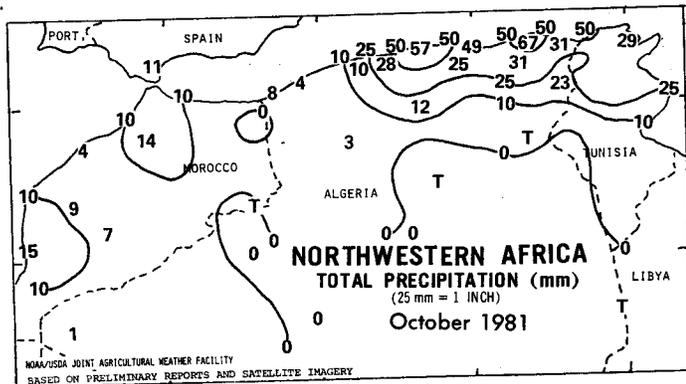
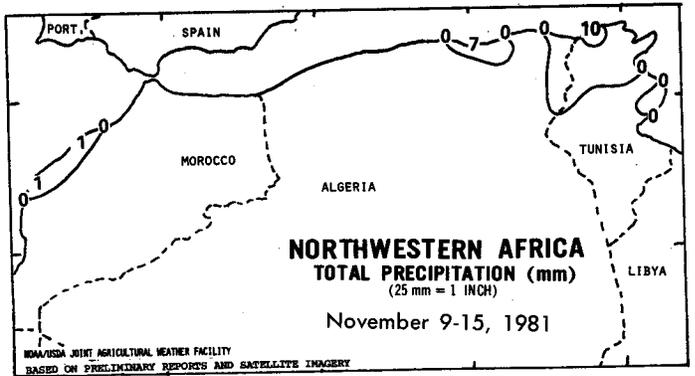




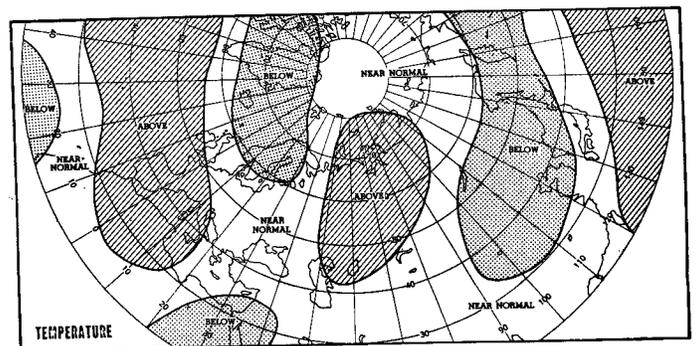
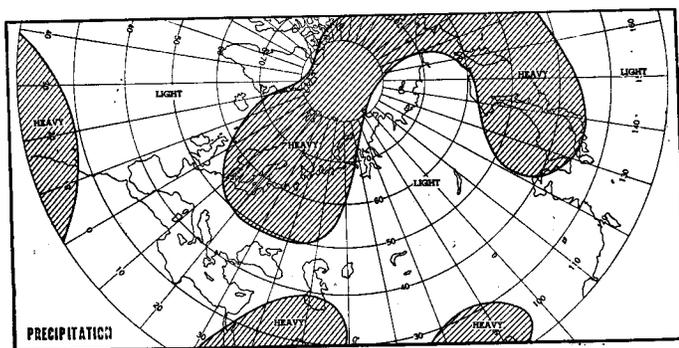
EUROPE: Very little precipitation fell in the southwestern half of the region, allowing late harvesting to continue. Excessive October precipitation in northern France and southern West Germany had caused widespread harvest problems and some waterlogging of winter grains. October's dry weather on the Iberian Peninsula has continued to the present, and sowing prospects in the southern half remain poor. Two low pressure systems developed in the eastern Mediterranean and spread above-normal precipitation across the southeastern countries. A frontal system across the north produced normal to above-normal precipitation in the northeastern quadrant. This moisture maintained favorable conditions for winter grains, following adequate precipitation in October. Temperatures dipped below normal over most of the region, stopping winter grain growth. Only in the United Kingdom and western Mediterranean areas did warm weather persist.



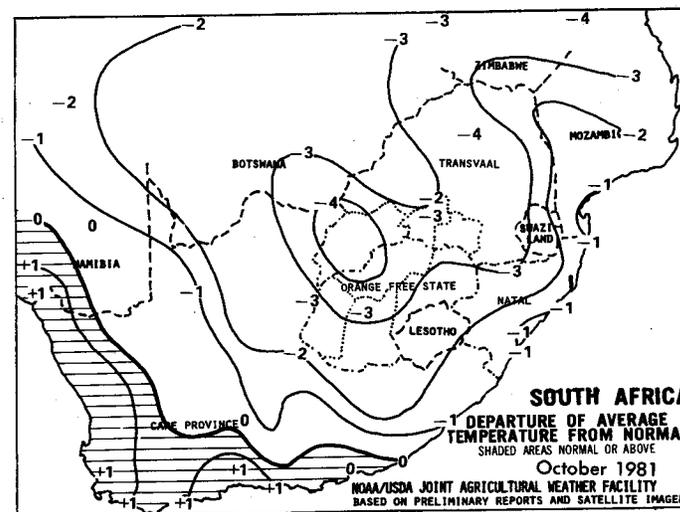
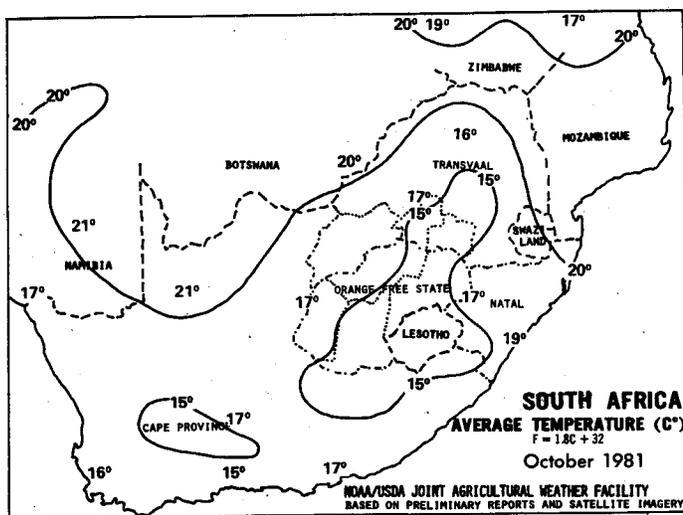
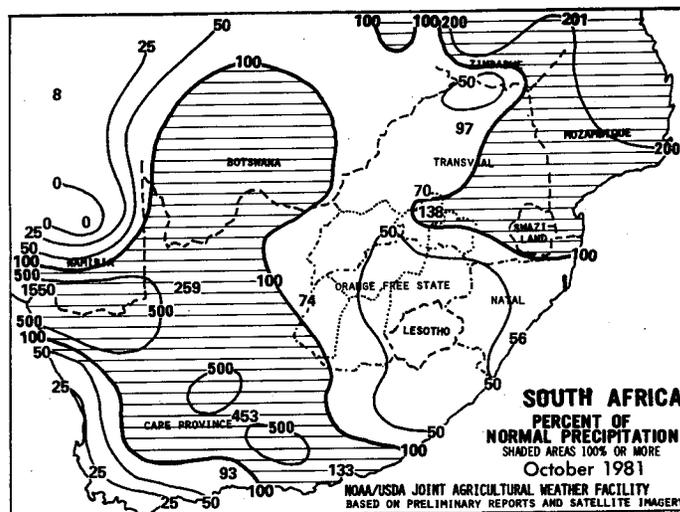
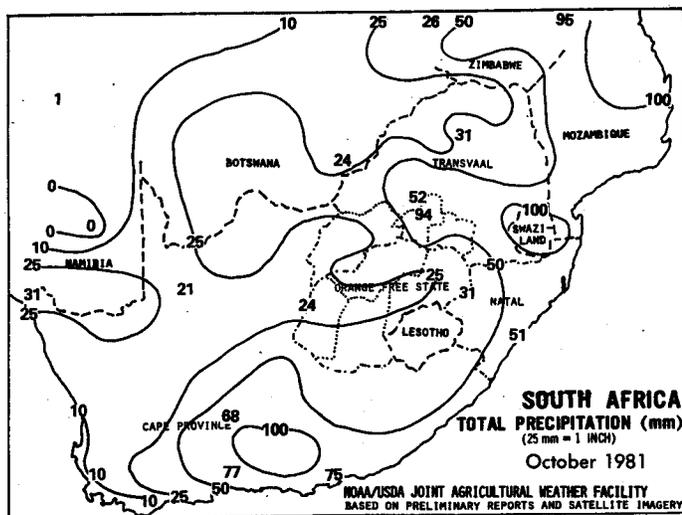
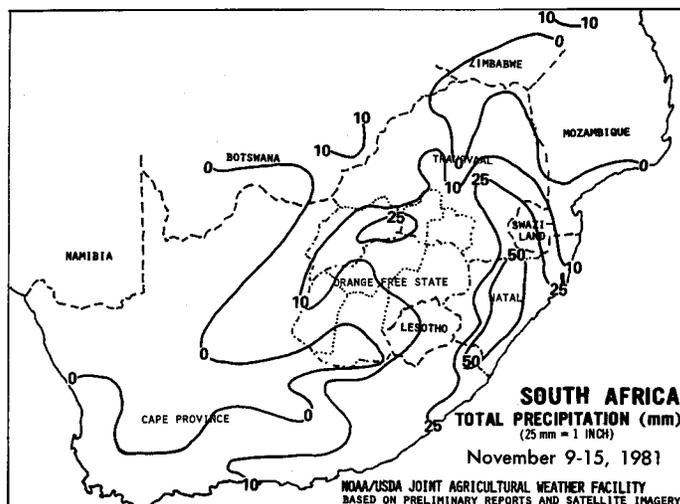
NORTHWESTERN AFRICA: Precipitation was limited mostly to northern Tunisia. Winter grains there and in eastern Algeria should have adequate moisture. Even though October precipitation was below normal in that area, it was concentrated in the last 10 days of the month. Morocco and western Algeria had only light precipitation through October to the present, and conditions remained too dry for winter grain sowing. October temperatures stayed above normal in nearly all areas.



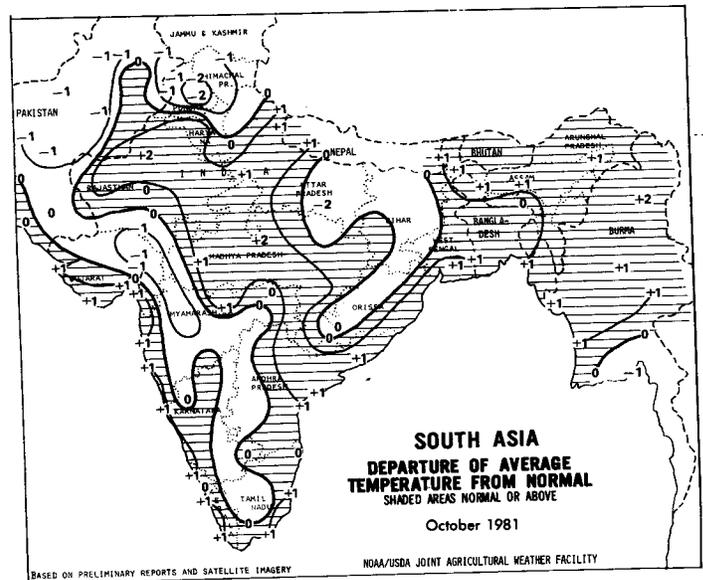
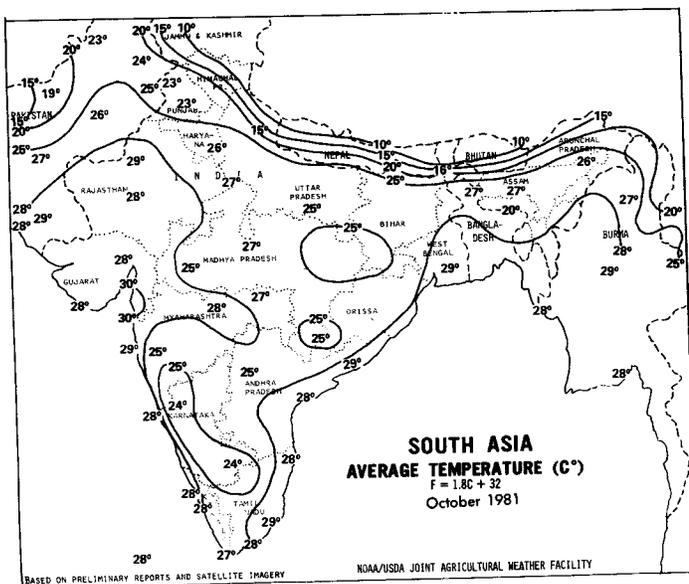
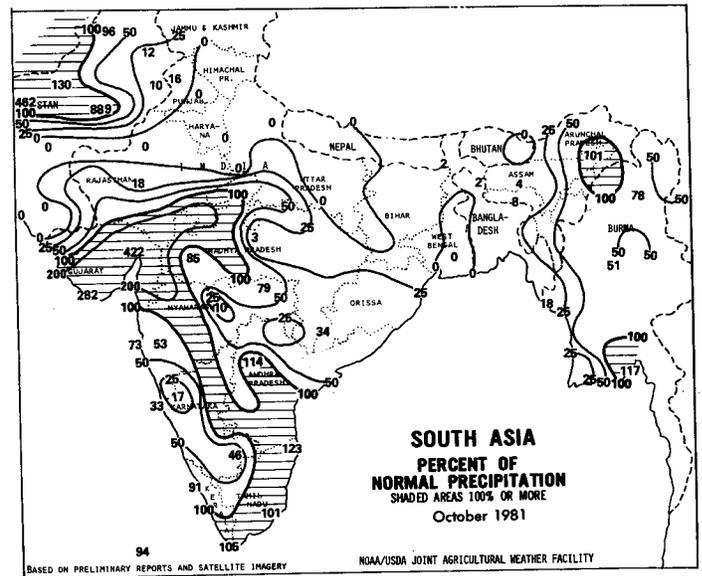
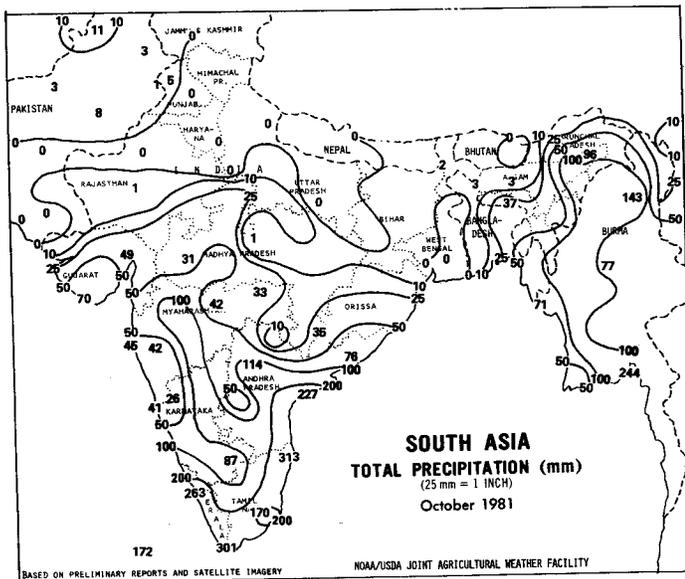
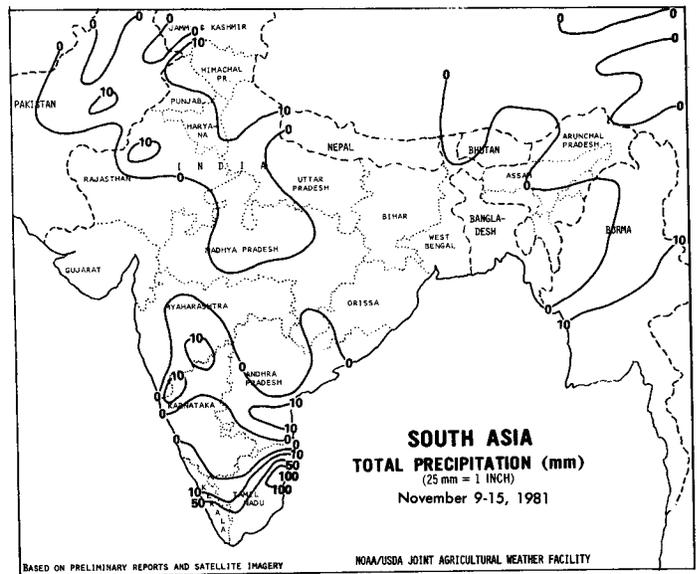
EURASIA OUTLOOK FOR MID-NOVEMBER TO MID-DECEMBER



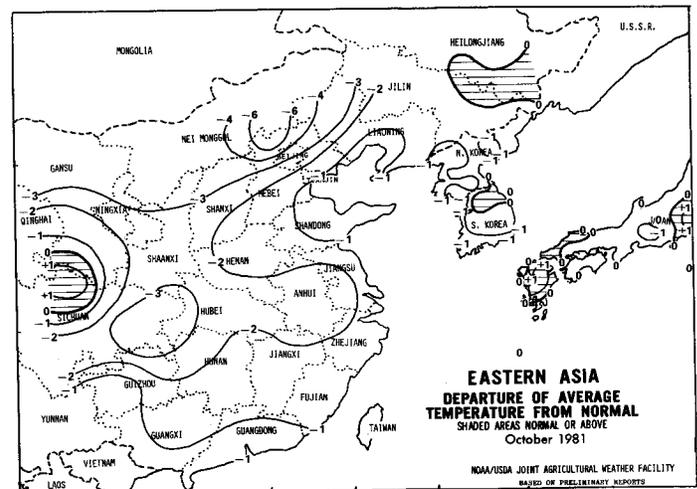
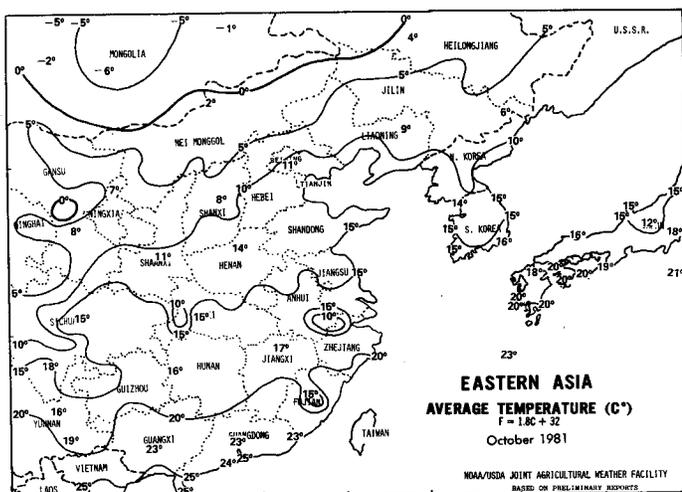
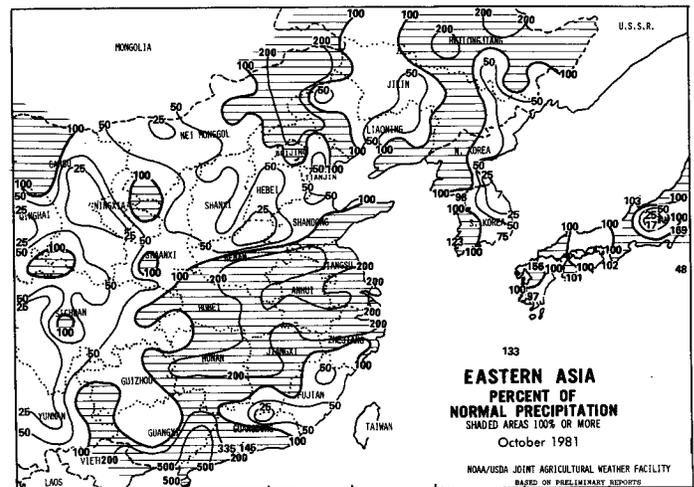
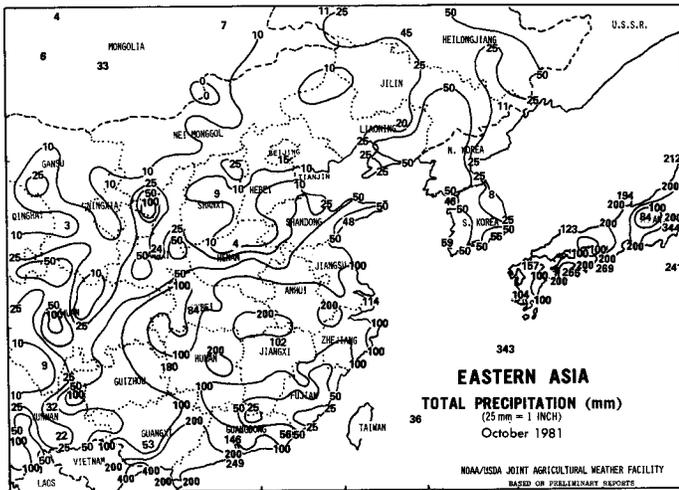
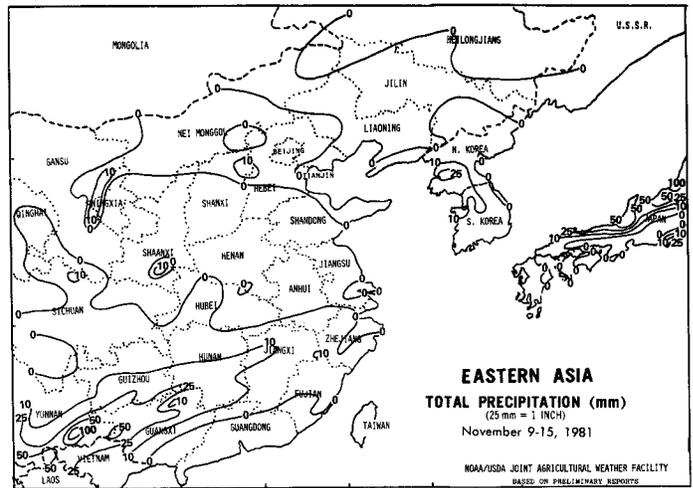
SOUTH AFRICA: Beneficial rains fell on portions of the corn triangle. Rainfall amounts ranged from 10 to 25 mm in the northern Orange Free State and southern Transvaal. This area received below-normal moisture in October, and corn planting was delayed due to topsoil moisture deficits. Reports indicate that only 10 percent of the corn has been planted in the major corn area. The increase in precipitation this week should allow some corn planting to resume in those areas supplied with sufficient surface moisture. Last year, corn planting was also delayed, mostly taking place during the second half of November; however, favorable weather during the remainder of the growing season produced a good crop. Temperatures, although below normal in the corn triangle in October, were near normal this week.



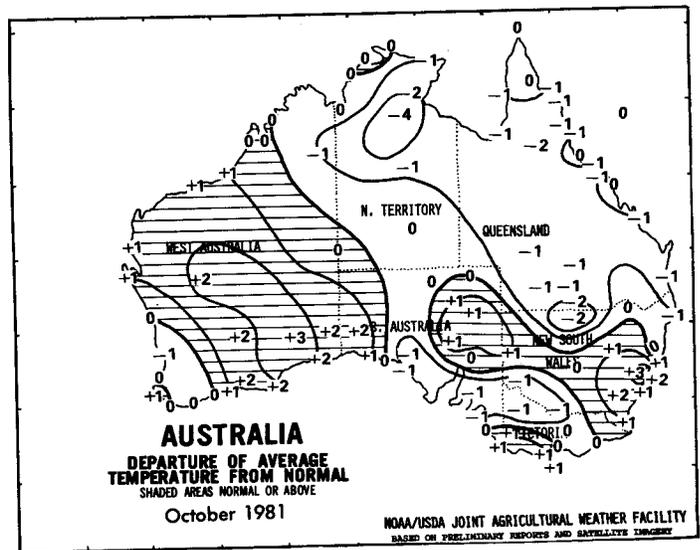
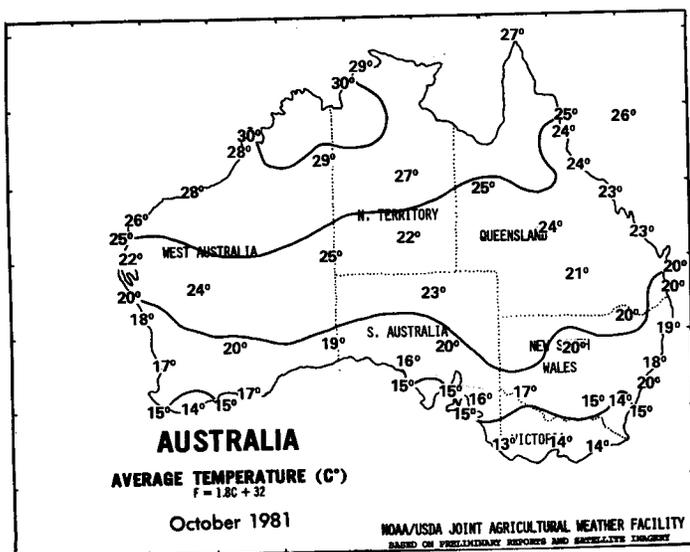
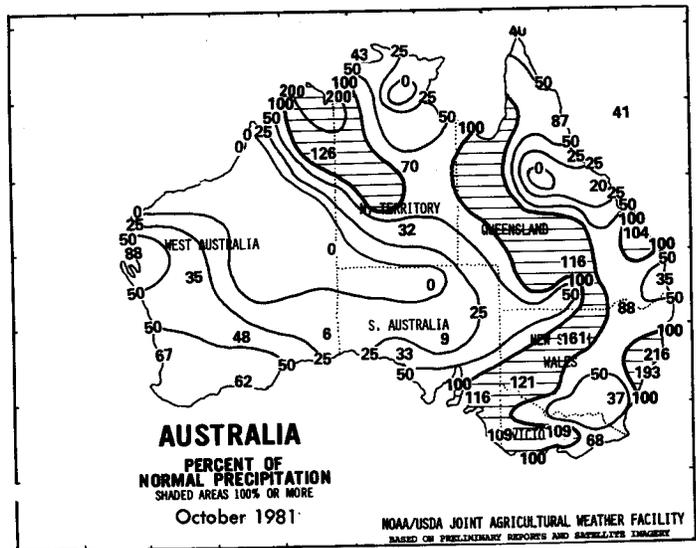
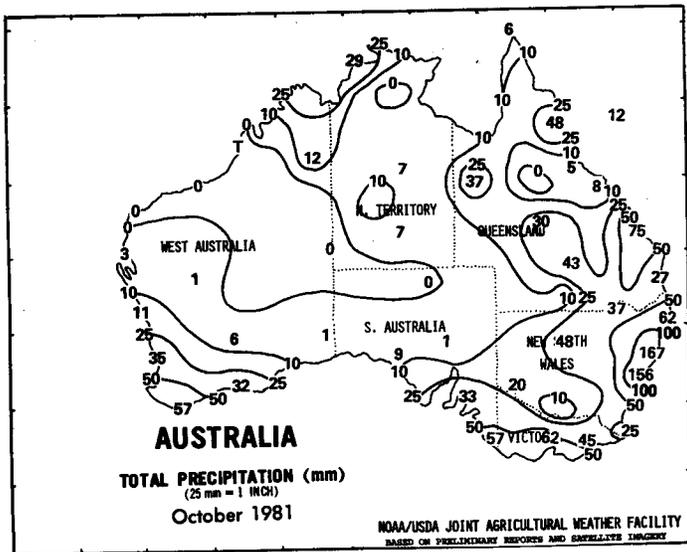
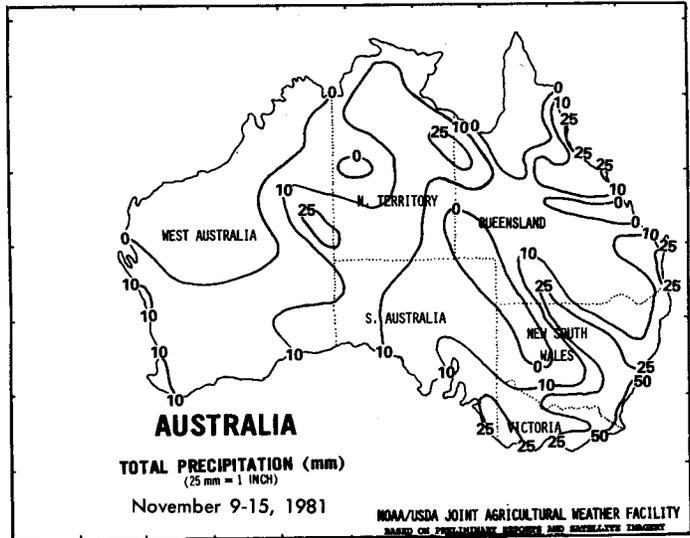
SOUTH ASIA: The first westerly storm of the season dropped above-normal rainfall across many winter grain areas of northern India. The moisture further improved sowing prospects, following generous rainfall of the previous week. October rainfall in this area had been far below normal. Rainfall over interior areas of the Indian Peninsula slackened markedly, while abundant rains continued in coastal areas of the southern tip. Conditions remained favorable for crops, because October rainfall had provided good soil moisture supplies.



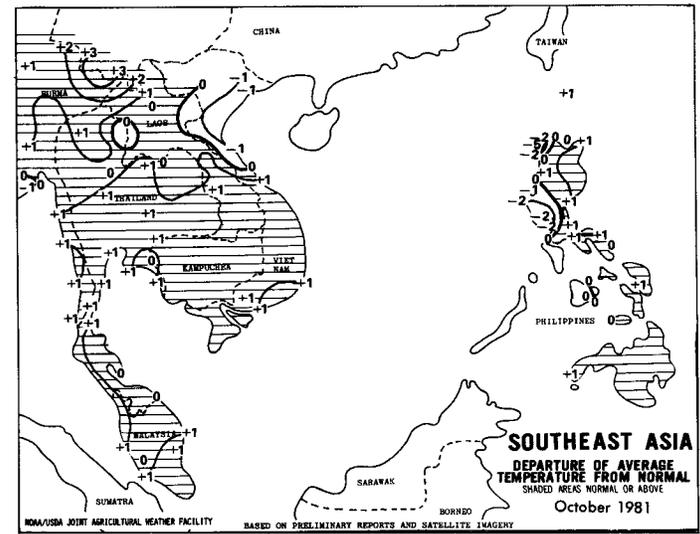
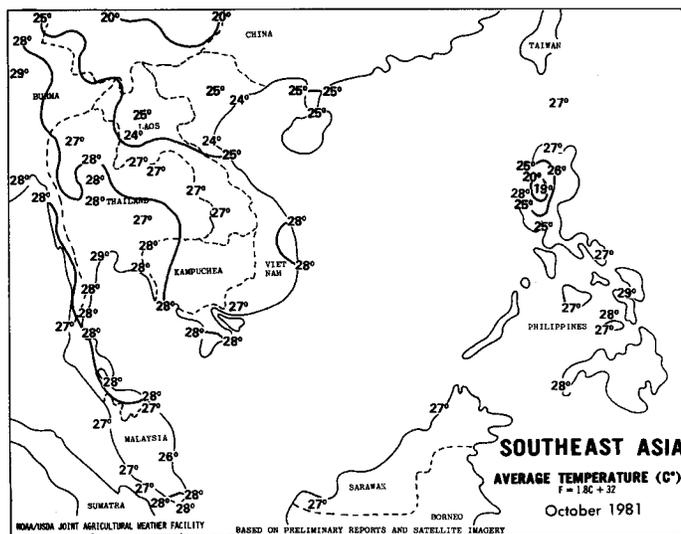
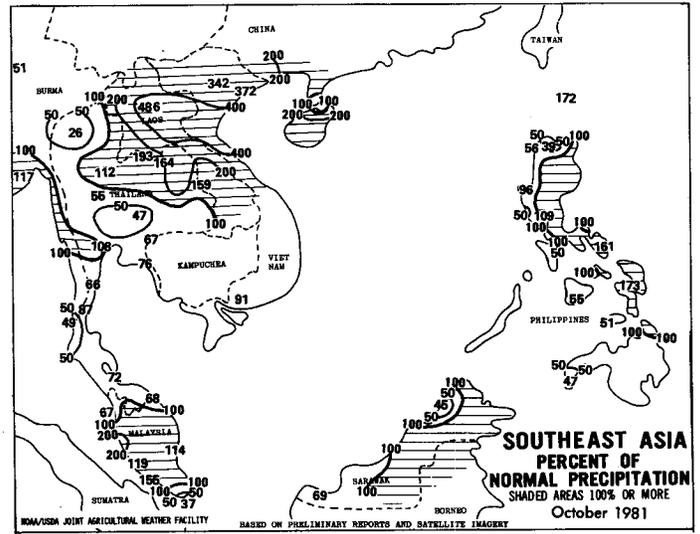
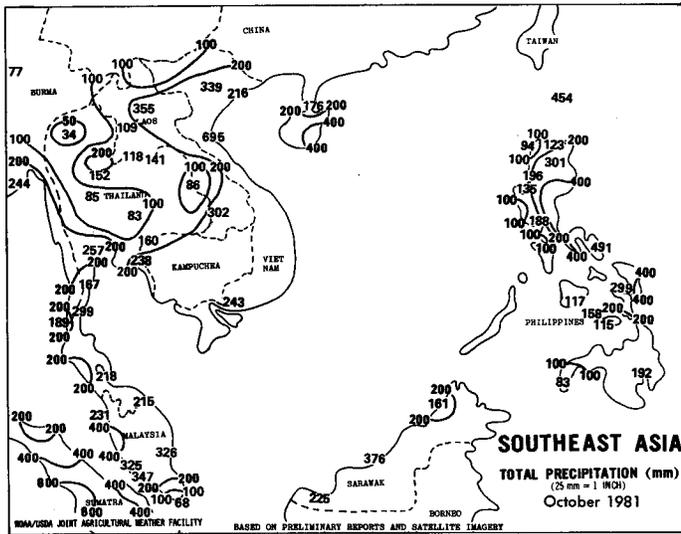
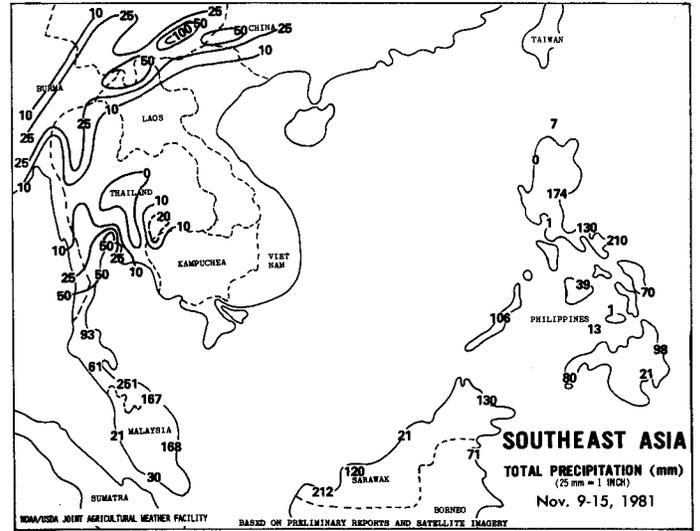
EASTERN ASIA: Mostly dry weather occurred over most of China, with the only substantial rain falling in the western hills south of the Yangtze River. The dryness benefited late harvesting and improved growing conditions in southern winter grain areas. Abundant precipitation in these areas during October and early November had created unfavorably wet conditions. Dry weather persisting through October to the present in some northern winter grain areas has precluded successful sowing of unirrigated fields. Cold conditions permitted only limited winter grain growth during the week in irrigated fields in this northern area. In South Korea, northwestern winter grain areas received light to moderate precipitation, but below-normal temperatures permitted only slow growth. Near-normal October precipitation had created favorable conditions for autumn growth.



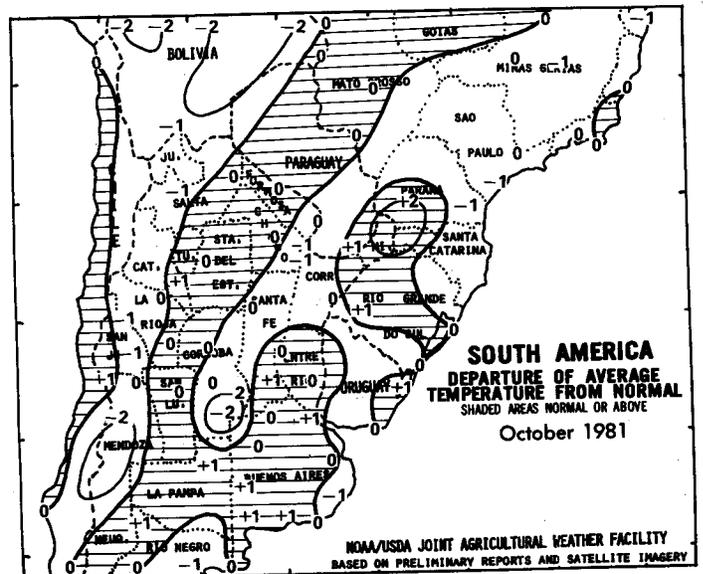
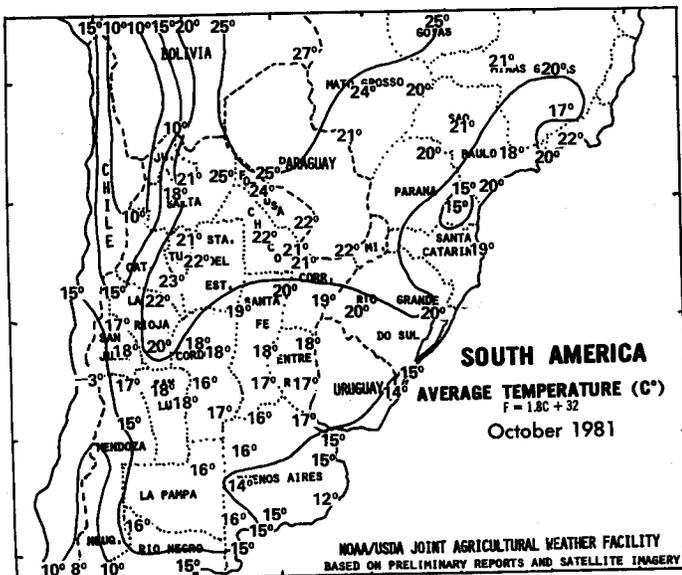
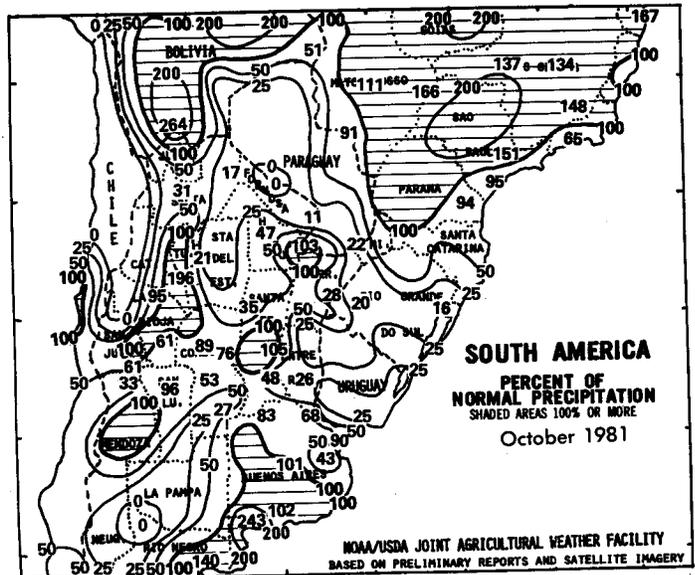
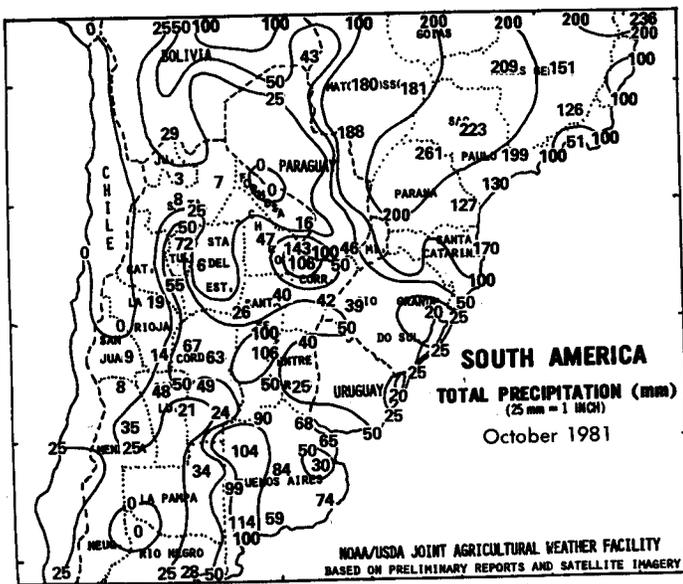
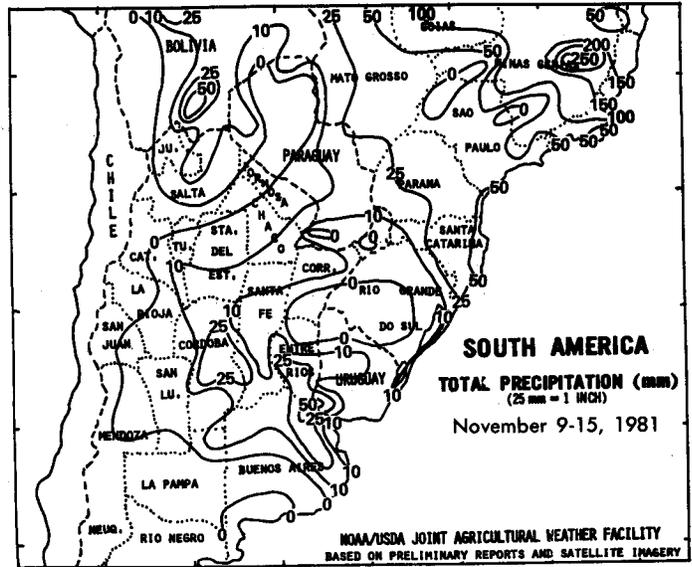
AUSTRALIA: Scattered showers, which fell on wheat areas of southern Queensland and northern New South Wales, only briefly interrupted harvest activity. In October, below-normal rainfall in all grain areas of Australia, except extreme South Australia and Victoria, likely hastened crop development and forced the crop to rely on stored soil moisture reserves for growth. Beneficial rain fell on crop areas of southern New South Wales, Victoria and South Australia this week, while grain areas in western Australia remained generally dry. Temperatures were generally below normal in all crop areas of Australia this week, but near normal in October.



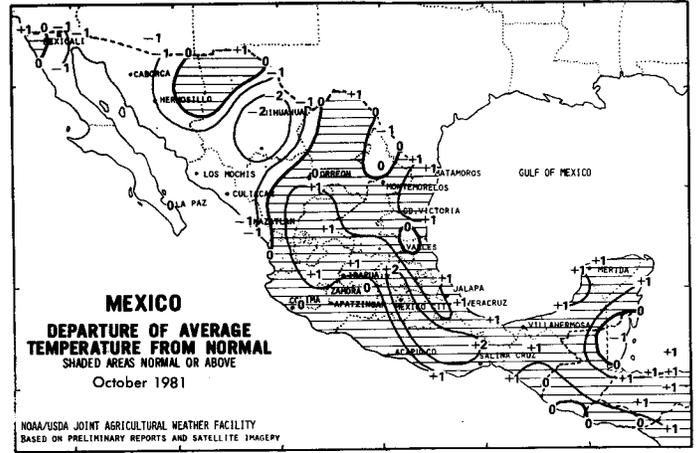
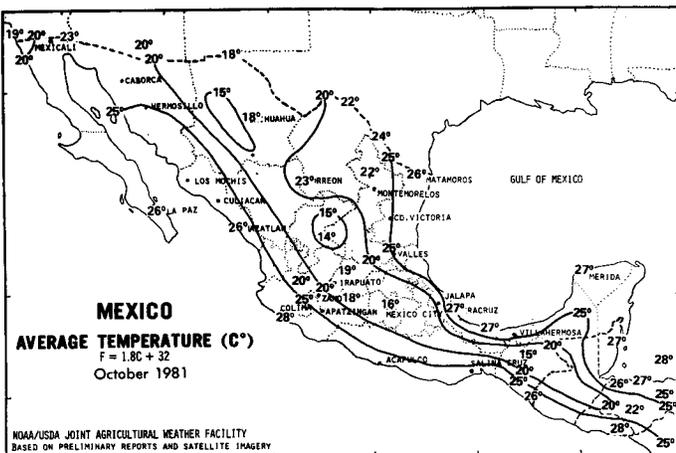
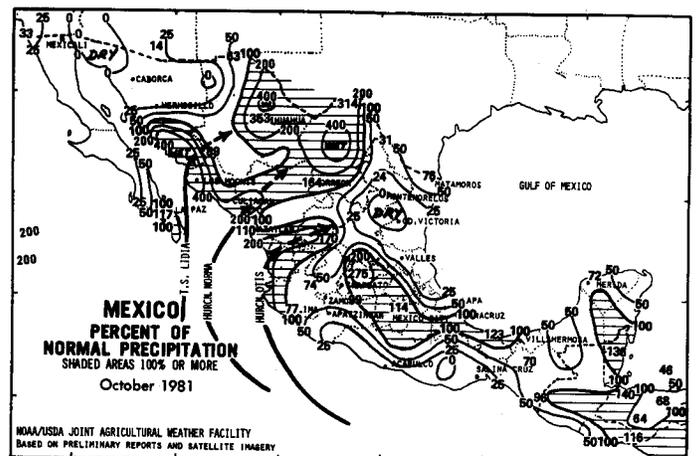
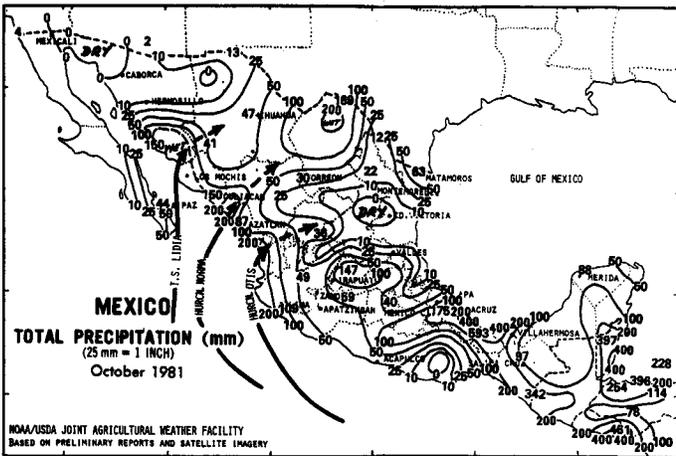
SOUTHEAST ASIA: Scattered rainfall was confined mostly to southern portions of Thailand and vicinity, although post-monsoon showers did produce substantial amounts of weekly rainfall in extreme northwestern Thailand. October rainfall ranged below the seasonal average in much of the areas which benefited from the recent showers. Dry weather during the past week in the Central Plains, north of Bangkok, resembled the much-below average rainfall pattern which also prevailed during October. In contrast, October monthly rainfall was above normal in northeastern Thailand. Seasonal rainfall has increased in peninsular Thailand and Malaysia.

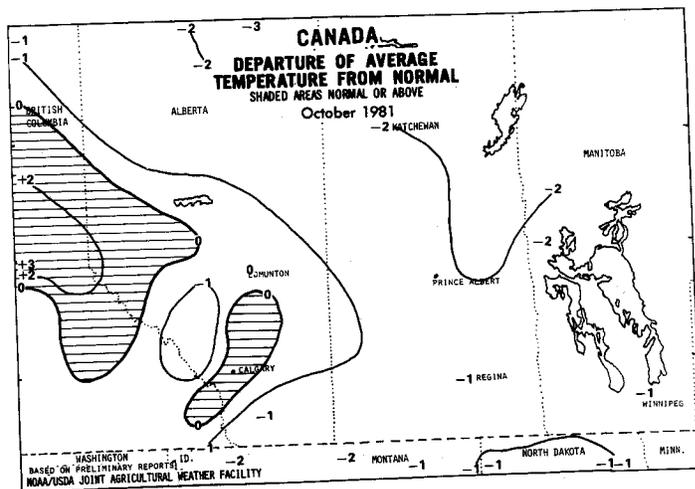
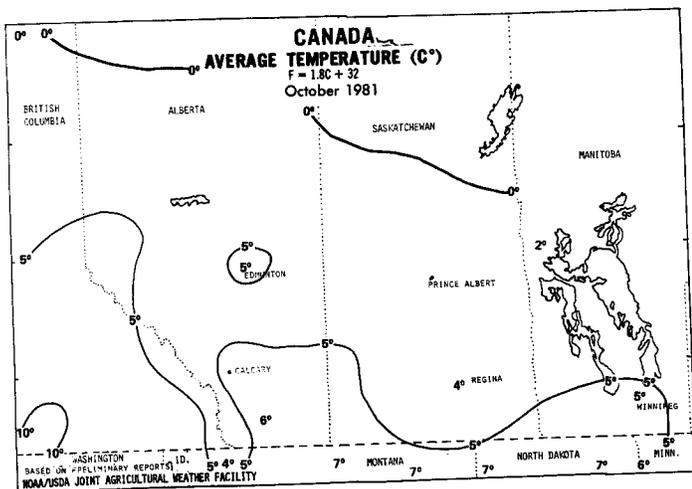
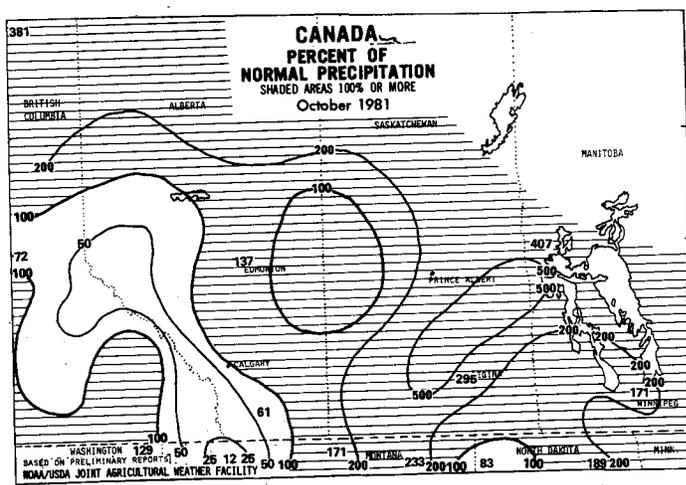
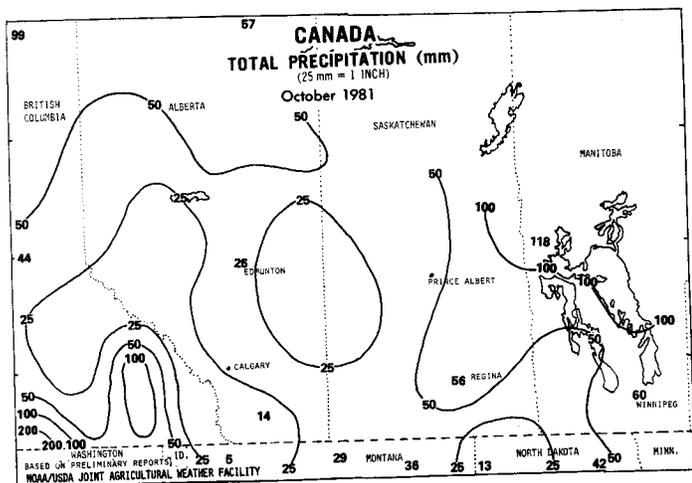


SOUTH AMERICA: Showers produced significant weekly rainfall in Argentina's major coarse grain/soybean area and in Brazil's crop areas north of Rio Grande do Sul. In Argentina, the additional moisture aided germination and emergence of corn, sorghum, sunflowers and cotton in areas where topsoils were dry enough for planting. Soil moisture supplies have improved significantly from recent rains following the below-average October rainfall pattern. Most all of the monthly rainfall in Argentina's crop areas occurred late in the month. In Brazil, the wheat harvest in Rio Grande do Sul was aided by dry weather while soil moisture reserves are adequate in most areas for soybean planting. Abundant rains over Brazil's coffee area during October greatly benefited conditions for the blossoming period.



MEXICO: Excellent weather for crop production has prevailed over the major agricultural areas since the beginning of the dry season on the first of November. Sunny, mild conditions favored development of winter wheat and vegetables and harvesting of summer crops. In contrast, October's weather brought havoc to many farming areas of the West Coast with damaging, heavy rains from three tropical weather systems. Tropical storm Lydia crossed the Sonora/Sinaloa border on the 7th, blowing down and flooding crops and overflowing dams in the country's major soybean area. Unharvested soybeans suffered heavy losses while vegetables further southward were moderately hurt. Hurricane Norma slammed into the West Coast just north of Mazatlan on the 12th, sending more unwelcome rain onto young tomatoes and cucumbers in the southern Culicán Valley. Late-season Hurricane Otis went ashore over the Nayarit tobacco area on the 29th with heavy rains and strong winds likely damaging the immature crop. The upper northeastern citrus belt has continued dry since early summer.





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(continued from first page)

SUNDAY...Storms off both the East and West coasts continued to produce rain, showers, and high wind in the Northeast and Northwest. A cold front moved through the Plains and encountered warm, moist air from the Gulf of Mexico. Showers fell along and ahead of the front from Alabama to Minnesota.

(continued from page 14)

facilitate crop dry down. Corn stalks being stacked and baled for bedding. Some areas still filling silos. The 1981 soybean harvest 82% complete, 100 1980, 93% average. Fall plowing 46% complete, 52% 1980, 51% average. Christmas tree harvest beginning in the growing area. Topsoil moisture supplies were rated 5% short, 78% adequate and 17% surplus.

WYOMING: High pressure kept State warm and dry. Temperatures above, but precipitation below normal at all reporting stations. Greatest departures from average temperatures in northeast. Highest temperature 73°. Coldest temperature 12°. Northwest only precipitation 0.28 in.; rest dry.

Winter wheat good condition most areas. Warm, dry weather allowed farmers to make excellent progress in winding up sugarbeet harvest and corn harvest. Livestock mostly good condition. Stock water short some areas. Winter grazing generally good.

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