

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

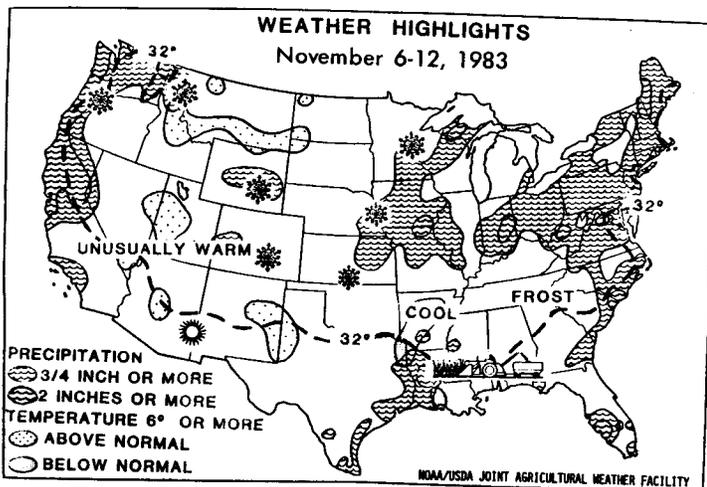
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National Weather Summary

November 6 to 12



HIGHLIGHTS: Light to moderate amounts of rain accumulated along the west coast, with some heavy amounts along the coasts of northern California and Washington. Lighter precipitation reached onto the Plateau and to the Rockies. Heavy snow fell at high elevations. Light rain fell through much of the southern and central Plains, while heavier amounts fell from Iowa and northern Missouri eastward to the mid-Atlantic States, the Northeast, and the Southeast coast. Showers and thunderstorms covered the gulf coast. Later, snow fell in the eastern portion of the central and northern Plains, the Great Lakes region, and in the Northeast from central Pennsylvania northward. Average temperatures were near seasonal normals over much of the Nation, but were cooler in the Southeast and warmer in the Southwest. The first freeze of the season reached to northern Louisiana, central Mississippi and Alabama, northern Georgia, and South Carolina.

SUNDAY...A cold front pushed light, isolated moderate, showers across the northern Pacific Coast, Plateau, and northern Rockies. Clouds, rain, and fog were also over the central United States from eastern Texas through the lower Mississippi Valley, and northward through Oklahoma and Kansas to Iowa and Illinois. Late in the day thunderstorms broke out in eastern Texas and through Louisiana. Morning temperatures were below freezing from the Great Lakes through the Ohio Valley into the South from northern Mississippi to South Carolina.

MONDAY...The cold front brought showers and much colder temperatures to the northwestern United

States. Strong, northerly wind began across the northern Plains. Showers and thunderstorms were light, but occasionally heavy, from Louisiana to South Carolina and Florida. Temperatures moderated somewhat in the East and warm weather spread into the central Plains, before being replaced by sharply colder temperatures as a cold front passed.

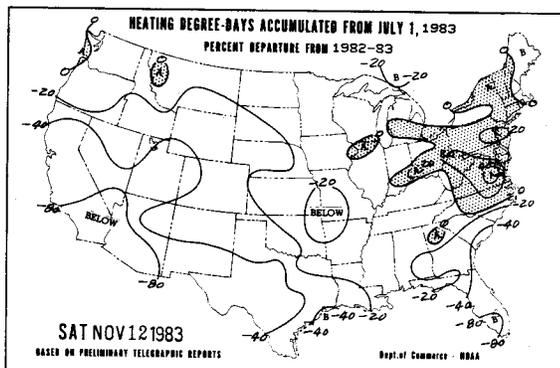
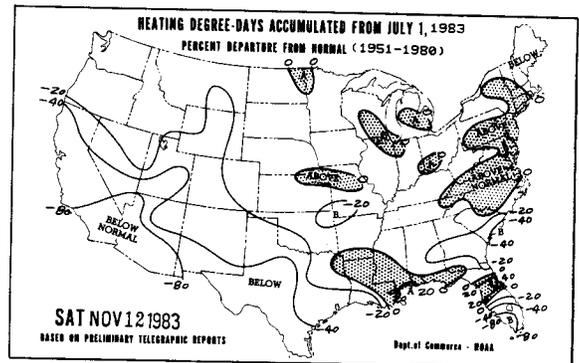
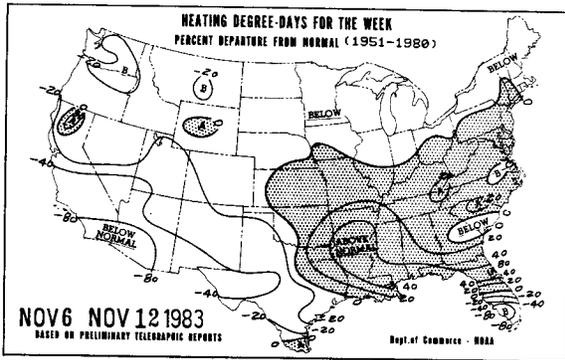
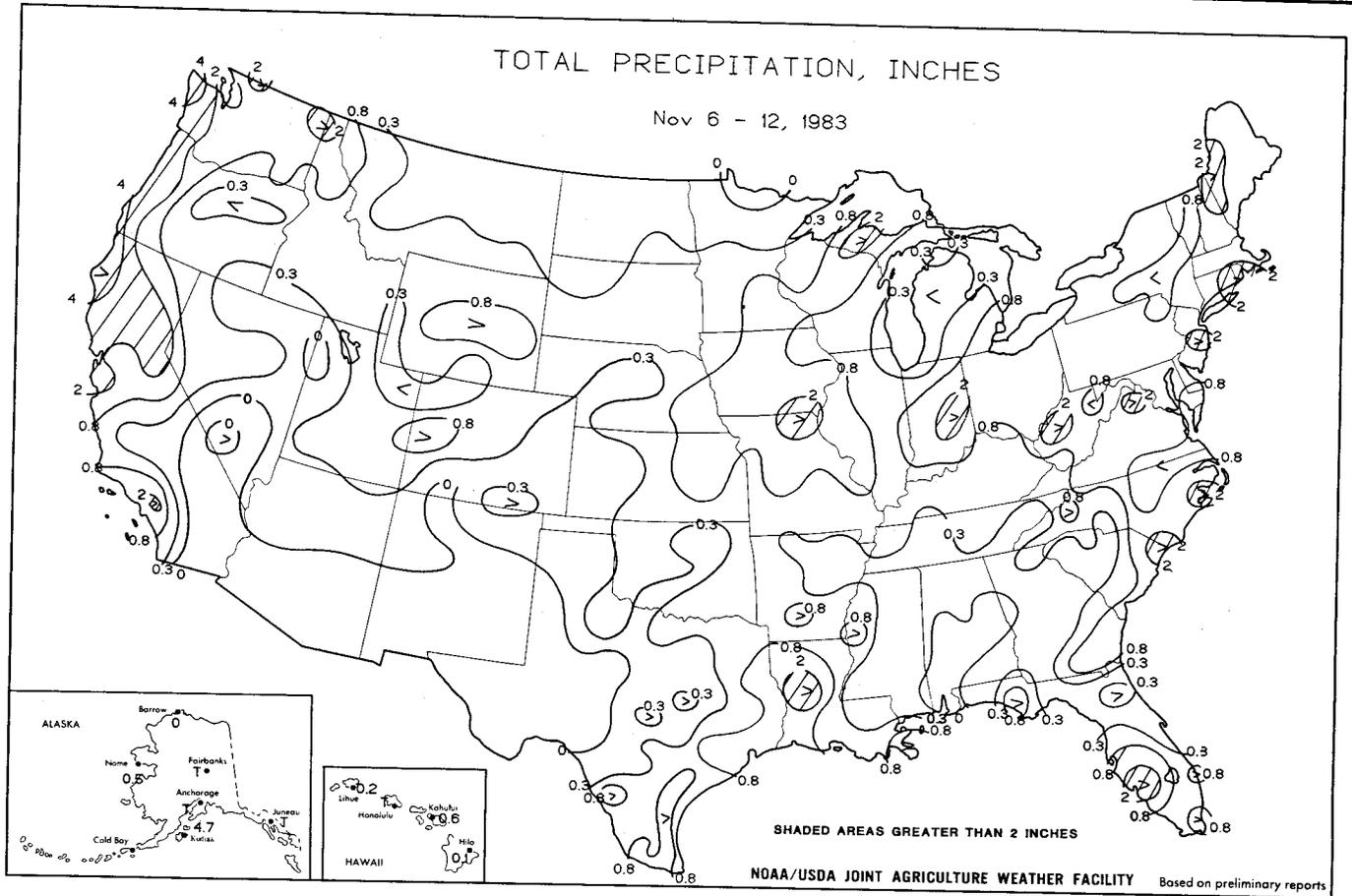
TUESDAY...Snow spread from the northern Rockies to the central Rockies and into western Nebraska. Rain fell in the southern Plateau region and spread across the central Plains and into the western Great Lakes. Freezing temperatures covered the northern Rockies, the central Plateau, and much of the central Rockies. Much colder air spread over the northern and central Plains. Showers and thunderstorms persisted from the coast of South Carolina through Florida.

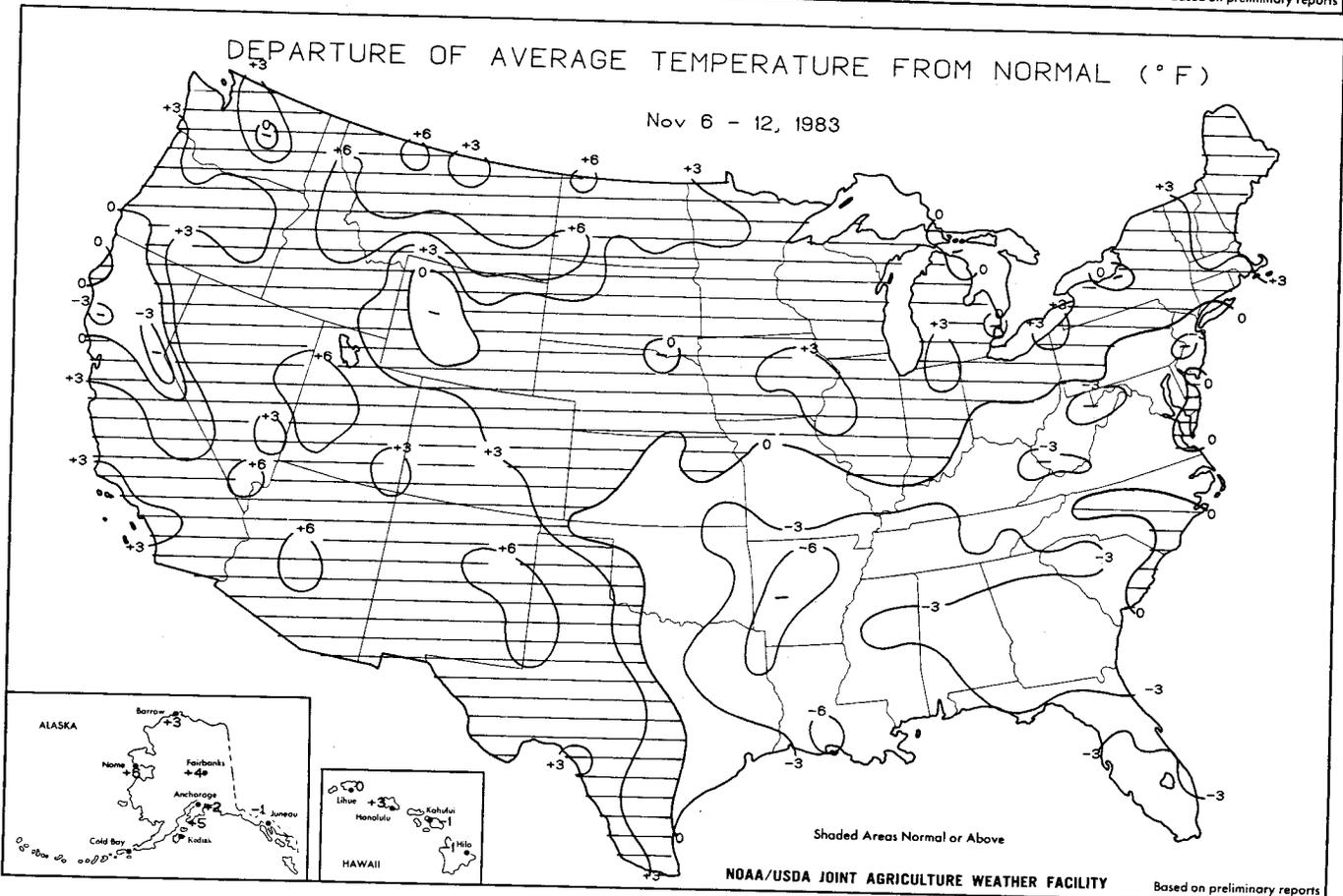
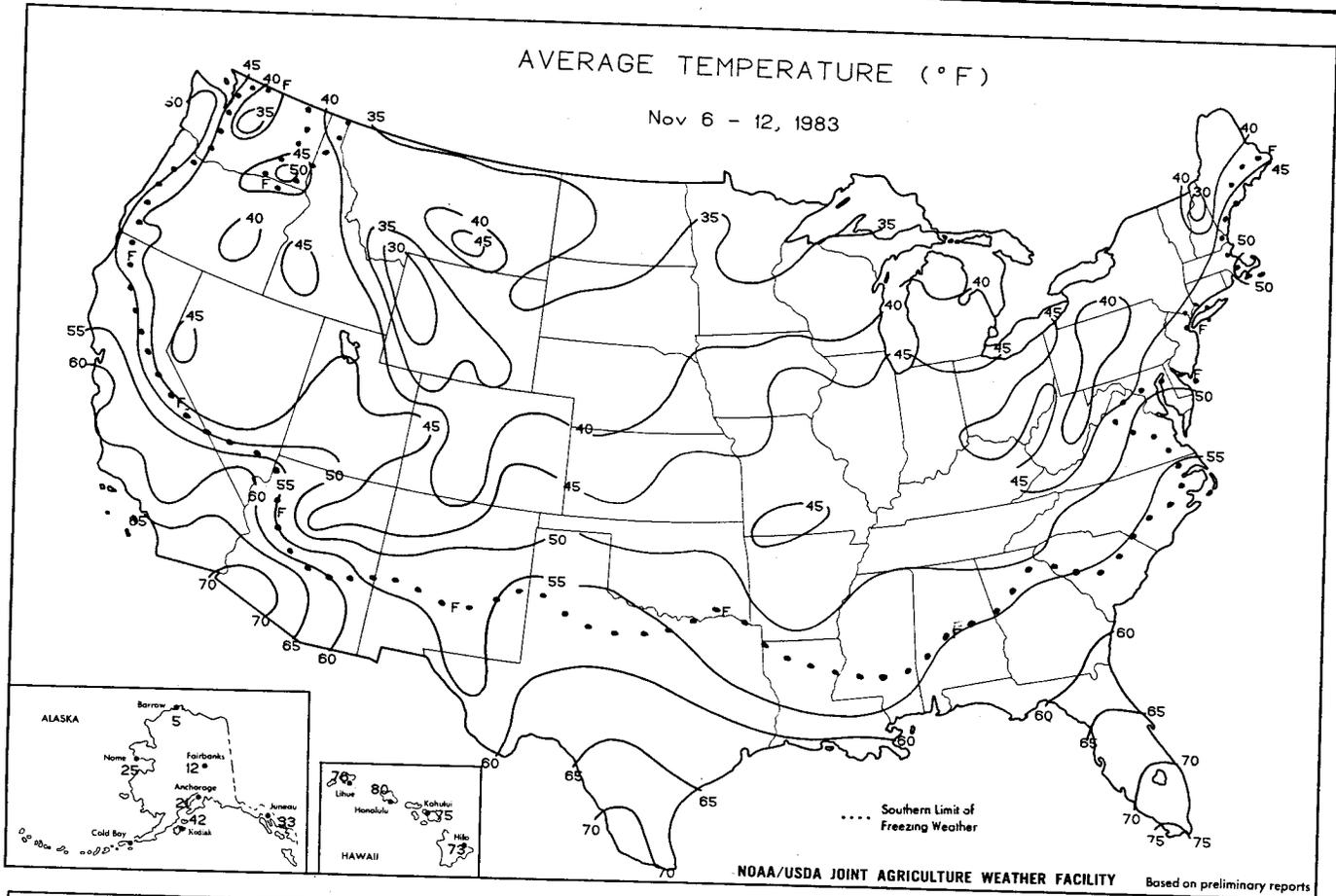
WEDNESDAY...Early in the day, snow fell from northern Michigan to eastern South Dakota and southward to western Kansas. Rain fell throughout the eastern portion of the Plains and the southeastern quarter of the Nation. Heavy showers covered the area from southern Illinois and Missouri into Wisconsin and the mid-Atlantic States. Very cold air spread through the Rockies and parts of the Plains, with low temperatures in the teens reaching into western Nebraska.

THURSDAY...The colder air spread through the northern and central Plains and warmer weather began to spread eastward from the west coast. Showers fell over the West from the southern California coast northward and across the central Plateau to the northern Rockies. Rain and showers also covered the Northeast from Missouri to South Carolina and northeastward to New England. Rain was quite heavy over the lower Lakes States, the mid-Atlantic States, and the Northeast coast.

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Weather Data for the Week Ending Nov. 12, 1983

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 28	PCT. NORMAL SINCE AUG 28	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					
AL BIRMINGHAM	63	41	75	28	52	-2	T	-	.8	T	7.1	79	50.3	103	80	45	0	1	1	0				
MOBILE	64	47	75	37	56	-5	T	-	.7	T	12.4	108	70.2	119	89	55	0	0	0	0				
MONTGOMERY	66	45	79	34	56	-1	T	-	.6	T	10.5	174	60.9	141	94	47	0	0	0	0				
AK ANCHORAGE	31	22	34	13	26	2	T	-	.3	T	4.9	102	11.6	87	87	68	0	7	1	0				
BARROW	11	-1	23	-13	5	3	T	-	.7	T	1.4	100	2.9	57	93	60	0	7	1	0				
FAIRBANKS	23	1	33	-4	12	4	T	-	.1	T	4.1	186	9.6	101	84	59	0	7	1	0				
JUNEAU	39	28	43	22	33	-1	T	-	.1	T	11.0	63	39.6	83	97	58	0	6	1	0				
KODIAK	46	37	48	27	42	5	T	-	.1	T	4.1	186	9.6	101	84	59	0	7	1	0				
NOME	33	17	37	10	25	6	T	-	.3	T	11.0	63	39.6	83	97	58	0	6	1	0				
AZ PHOENIX	80	58	85	50	69	6	T	-	.1	T	5.2	116	12.2	80	86	64	0	7	3	0				
PRESCOTT	65	40	71	26	52	6	T	-	.3	T	3.3	220	11.4	181	62	24	0	0	0	0				
TUCSON	77	51	79	47	64	3	T	-	.1	T	10.2	268	18.3	110	74	29	0	1	1	0				
YUMA	83	60	87	54	71	5	T	-	.1	T	10.3	381	20.6	196	76	28	0	1	1	0				
AR FORT SMITH	56	38	63	27	47	-5	T	-	.5	T	0	0	3	33	4.3	172	62	27	0	0				
LITTLE ROCK	56	40	71	30	48	-6	T	-	.2	T	0	0	3	33	4.3	172	62	27	0	0				
CA BAKERSFIELD	71	51	78	42	61	2	T	-	.4	T	0	0	3	33	4.3	172	62	27	0	0				
EUREKA	62	47	66	38	55	3	T	-	.4	T	0	0	3	33	4.3	172	62	27	0	0				
FRESNO	69	49	74	37	59	4	T	-	.8	T	2.4	2.8	11.2	193	198	93	39	0	0	1	0			
LOS ANGELES	70	59	74	55	64	2	T	-	.9	T	2.1	191	18.4	236	83	44	0	0	3	0				
RED BLUFF	59	46	63	34	53	-3	T	-	.9	T	4.6	383	26.4	284	83	56	0	0	0	2	0			
SACRAMENTO	65	49	72	39	57	2	T	-	1.5	T	4.2	150	33.8	217	92	53	0	0	4	2	0			
SAN DIEGO	73	62	75	58	68	4	T	-	.3	T	3.0	150	26.8	218	86	48	0	0	4	2	0			
SAN FRANCISCO	64	52	71	44	58	2	T	-	.9	T	1.5	113	15.5	221	85	56	0	0	4	1	0			
DENVER	56	29	74	19	42	2	T	-	.2	T	1.1	1.1	2.4	176	27.8	201	87	51	0	0	4	1	0	
GRAND JUNCTION	58	36	70	29	47	4	T	-	.8	T	1.0	36	17.5	120	86	39	0	4	2	0	0			
PUEBLO	63	28	80	22	46	3	T	-	.1	T	1.1	115	11.9	163	76	42	0	1	2	1	0			
CT BRIDGEPORT	56	39	64	32	48	0	T	-	.8	T	0	0	8	36	11.7	103	84	31	0	4	2	0		
HARTFORD	57	33	69	25	45	1	T	-	1.4	T	0	0	7	7.9	93	46.6	132	89	54	0	1	2	1	0
DC WASHINGTON	60	42	70	38	51	-1	T	-	.5	T	1.2	9.3	97	45.4	118	93	51	0	5	2	1	1	0	
FL APALACHICOLA	66	50	76	40	58	-4	T	-	.6	T	1.0	10.1	133	42.5	122	83	52	0	0	2	1	1	0	
DAYTONA BEACH	72	54	78	44	63	-4	T	-	.2	T	10.0	71	52.4	102	92	67	0	0	1	0	0	0	0	
JACKSONVILLE	70	52	76	38	61	-2	T	-	.2	T	19.0	143	59.9	131	93	60	0	0	2	0	0	0	0	
KEY WEST	81	71	84	68	76	-1	T	-	.3	T	10.1	82	54.6	108	95	64	0	0	2	0	0	0	0	
MIAMI	79	64	84	58	72	-2	T	-	.5	T	4.4	32	47.0	125	83	62	0	0	3	0	0	0	0	
ORLANDO	75	58	81	48	67	-2	T	-	.3	T	13.4	76	53.0	94	90	57	0	0	2	0	0	0	0	
TALLAHASSEE	68	47	78	32	58	-3	T	-	.2	T	9.7	101	48.4	104	95	58	0	0	1	0	0	0	0	
TAMPA	73	60	79	52	66	-2	T	-	.5	T	6.1	52	54.5	92	97	59	0	1	2	0	0	0	0	
WEST PALM BEACH	78	62	81	55	70	-3	T	-	.2	T	9.5	93	54.3	120	99	74	0	0	3	0	0	0	0	
GA ATLANTA	61	43	72	32	52	-2	T	-	.7	T	1.1	10.0	133	35.3	84	84	52	0	1	1	0	0	0	
AUGUSTA	66	45	74	34	55	-1	T	-	.4	T	8.1	113	43.2	111	84	47	0	0	1	0	0	0	0	
MACON	68	46	76	34	57	0	T	-	.1	T	3.0	47	38.7	97	86	49	0	0	3	0	0	0	0	
SAVANNAH	67	50	73	37	58	-1	T	-	1.6	T	6.6	74	48.0	101	88	56	0	0	3	0	0	0	0	
HI HILLO	81	65	83	64	73	-1	T	-	.1	T	21.2	91	62.5	58	87	62	0	0	3	1	1	0	0	
HONOLULU	87	73	88	70	80	3	T	-	.8	T	1.4	37	4.5	25	80	54	0	0	0	0	0	0	0	
KAHULUI	84	66	88	62	75	-1	T	-	.1	T	1.7	81	6.2	44	84	67	0	0	3	0	0	0	0	
LIHOE	81	70	83	66	76	0	T	-	.2	T	3.7	40	13.8	38	88	63	0	0	1	0	0	0	0	
ID BOISE	54	38	67	27	46	4	T	-	.3	T	1.9	112	12.6	143	90	43	0	1	6	0	0	0	0	
LEWISTON	52	37	60	31	45	3	T	-	.4	T	2.4	104	11.9	112	96	60	0	1	3	0	0	0	0	
POCATELLO	52	31	64	24	41	4	T	-	.6	T	3.8	211	15.3	165	87	49	0	5	4	0	0	0	0	
IL CHICAGO	51	35	64	19	43	0	T	-	.2	T	8.4	120	38.6	124	83	58	0	3	1	0	0	0	0	
MOLINE	54	38	65	25	46	3	T	-	.7	T	10.7	141	31.3	90	90	64	0	2	2	1	0	0	0	
PEORIA	51	38	65	25	46	3	T	-	.6	T	9.7	126	35.4	106	91	64	0	2	4	0	0	0	0	
QUINCY	52	41	64	31	47	2	T	-	1.5	T	11.8	133	29.0	81	90	67	0	2	5	1	0	0	0	
ROCKFORD	49	34	61	20	41	1	T	-	.5	T	7.2	89	28.5	81	95	72	0	4	2	0	0	0	0	
SPRINGFIELD	54	38	67	27	46	1	T	-	.6	T	6.7	99	26.0	83	89	60	0	2	4	1	1	0	0	
IN EVANSVILLE	58	35	72	29	47	-1	T	-	.2	T	7.6	109	40.4	107	89	50	0	3	2	1	0	0	0	
FORT WAYNE	56	36	69	25	46	3	T	-	.8	T	6.2	94	25.0	78	85	49	0	3	2	1	0	0	0	
INDIANAPOLIS	56	35	70	26	46	1	T	-	.9	T	7.2	103	30.0	85	87	48	0	3	2	1	0	0	0	
SOUTH BEND	54	37	66	26	45	2	T	-	.5	T	5.2	63	25.3	73	76	49	0	3	2	1	0	0	0	
IA DES MOINES	49	40	62	32	45	3	T	-	1.0	T	8	14.9	233	36.9	123	91	67	0	1	4	1	0	0	
SIOUX CITY	48	35	66	26	42	2	T	-	.5	T	6.3	124	25.8	104	87	61	0	2	3	0	0	0	0	
WATERLOO	47	37	55	25	42	3	T	-	.3	T	8.7	124	32.6	102	94	72	0	2	2	1	0	0	0	
KS CONCORDIA	47	36	62	24	42	-2	T	-	.7	T	6.0	105	23.6	89	95	67	0	4	2	1	0	0	0	
DODGE CITY	55	34	68	24	45	-1	T	-	.1	T	4.7	127	22.3	111	91	56	0	4	2	1	0	0	0	
GOODLAND	55	28	77	17	42	1	T	-	.2	T	1.4	50	16.0	100	94	51	0	5	2	0	0	0	0	
TOPEKA	52	41	63	30	47	1	T	-	.9	T	9.1	120	33.2	103	93	70	0	4	2	0	0	0	0	
WICHITA	53	39	64	24	46	-1	T	-	.7	T	6.7	93	34.2	123	96	70	0	3	3	0	0	0	0	
KY BOWLING GREEN	57	34	70	28	45	-3	T	-	.4	T	6.5	82	42.8	97	98	59	0	2	1	0	0	0	0	
LEXINGTON	57	36	70	28	46	-1	T	-	.3	T	8.1	114	34.0	83	91	47	0	2	2	0	0	0	0	
LOUISVILLE	58	35	71	29	47	-1	T	-	.8	T	8.8	110	39.3	98	80	46	0	2	2	1	0	0	0	
LA ALEXANDRIA	61	47	76	36	54	-5	T	-	2.9	T	8.2	95	45.4	97	87	58	0	0	3	2	0	0	0	
BATON ROUGE	63	48	78	41	56	-5	T	-	.1	T	6.4	69	65.8	133	93	60	0	0	1	0	0	0	0	
LAKE CHARLES	69	50	78	37	59	-2	T	-	.9	T	10.2	94	49.0	105	93	58	0	0	2	1	0	0	0	
NEW ORLEANS	65	51	75	42	58	-3	T	-	.7	T	12.7	119	71.8	136	82	58	0	0	2	1	0	0	0	

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

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Weather Data for the Week Ending Nov. 12, 1983

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 28	PCT. NORMAL SINCE AUG 28	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
ME SHREVEPORT	59	44	68	33	52	-6	1.3	.4	1.2	5.5	71	30.3	102	94	64	0	0	3	1
ME CARIBOU	43	31	49	28	37	3	1.2	.4	.8	7.5	90	35.6	111	89	66	0	5	4	1
ME PORTLAND	53	36	64	26	45	4	1.8	.7	1.4	11.8	123	50.2	138	90	56	0	2	3	1
MD BALTIMORE	58	36	67	30	47	-2	1.0	.3	.9	6.6	79	40.5	109	92	52	0	1	2	1
MD SALISBURY	61	41	70	35	51	2	.7	.0	.5	10.2	109	42.6	103	95	58	0	0	3	0
MA BOSTON	57	43	69	37	50	2	.8	.1	.8	8.0	90	41.6	113	86	53	0	0	3	1
MA CHATHAM	56	43	62	36	50	2	.9	.1	.9	8.9	93	48.6	122	90	72	0	0	1	0
MI ALPENA	44	27	62	12	35	-3	1.0	.5	.6	7.5	134	31.3	112	86	54	0	3	2	0
MI DETROIT	53	32	66	16	43	0	1.0	.5	.4	8.0	138	28.2	103	86	50	0	3	2	1
MI FLINT	53	33	66	18	43	2	.5	.1	.4	7.6	101	31.4	102	81	53	0	3	2	0
MI GRAND RAPIDS	52	36	62	23	44	3	.1	.7	.7	7.9	122	27.0	107	94	70	0	4	2	0
MI HOUGHTON LAKE	46	32	54	21	39	1	.1	.5	.1	7.9	122	27.0	107	94	70	0	4	2	0
MI LANSING	51	33	64	18	42	1	.5	.1	.3	7.4	125	29.7	109	91	60	0	3	2	0
MI MARQUETTE	41	26	54	12	34	0	2.4	1.7	2.2	14.4	164	40.2	120	96	66	0	6	3	1
MI MUSKEGON	50	36	58	26	43	1	.5	.7	.7	10.9	149	27.5	96	85	64	0	3	2	0
MI SAULT STE. MARIE	42	26	55	12	34	-2	.7	.3	.3	8.1	93	29.0	97	95	61	0	4	4	0
MN ALEXANDRIA	41	28	58	19	34	2	.6	.3	.1	5.0	94	19.9	83	96	69	0	4	4	0
MN DULUTH	39	26	50	8	33	1	.2	.2	.2	8.1	121	24.7	88	92	71	0	4	2	0
MN INT'L FALLS	38	23	52	10	31	2	.1	.3	.2	7.7	128	22.4	95	88	60	0	7	0	0
MN MINNEAPOLIS	42	31	57	23	37	0	1.5	1.1	1.0	8.0	151	33.9	135	92	69	0	4	3	1
MN ROCHESTER	41	32	53	20	37	1	1.0	.7	.7	9.5	151	31.4	135	92	69	0	4	3	1
MS GREENWOOD	62	43	76	32	53	-2	.2	.8	.2	4.3	53	48.6	107	85	47	0	1	2	0
MS JACKSON	62	42	77	30	52	-5	.3	.6	.3	4.8	59	58.9	179	93	50	0	1	2	0
MS MERIDIAN	63	40	72	30	52	-4	.7	.7	.7	6.4	82	56.4	124	98	51	0	1	1	0
MO CAPE GIRARDEAU	55	37	70	29	46	-1	.7	.1	.1	6.4	82	56.4	124	98	51	0	1	1	0
MO COLUMBIA	51	38	66	31	45	-2	1.1	.6	.6	8.4	105	36.3	92	97	62	0	3	2	1
MO KANSAS CITY	48	40	61	30	44	-2	.9	.5	.8	7.6	97	29.1	85	97	80	0	2	4	1
MO SAINT LOUIS	55	38	72	29	47	0	.9	.3	.7	9.2	146	35.8	117	97	60	0	2	4	1
MO SPRINGFIELD	53	37	65	28	45	-2	.5	.1	.4	13.8	152	40.6	113	87	62	0	2	3	1
MT BILLINGS	55	36	73	33	46	8	.4	.2	.3	4.0	133	11.5	83	77	38	0	0	2	0
MT GLASGOW	48	28	59	23	38	5	.1	0	.1	1.3	81	7.2	65	89	45	0	6	2	0
MT GREAT FALLS	49	30	61	23	39	3	.1	.2	.2	2.8	117	14.1	99	78	38	0	6	2	0
MT HAVRE	48	23	63	14	35	3	.1	.1	.6	40	11.7	103	96	50	0	6	1	0	
MT HELENA	48	28	61	18	38	4	.1	.5	.1	2.0	111	13.1	126	82	41	0	6	2	0
MT KALISPELL	43	30	48	24	36	4	.8	.5	.3	3.1	107	15.8	111	95	69	0	5	4	0
MT MILES CITY	49	30	63	23	39	5	.2	.1	.2	1.8	75	7.7	57	90	39	0	6	2	0
MT MISSOULA	43	30	51	23	37	3	.5	.3	.3	2.4	109	14.3	129	97	69	0	4	3	0
NE GRAND ISLAND	48	33	68	21	41	0	.6	.4	.3	5.0	116	25.6	113	91	63	0	4	3	0
NE LINCOLN	49	35	67	26	42	0	1.2	1.0	.6	6.3	119	27.0	105	96	72	0	3	4	1
NE NORFOLK	47	32	70	25	40	0	.7	.5	.4	3.8	90	25.1	106	89	57	0	4	3	0
NE NORTH PLATTE	51	25	80	15	38	1	.2	0	.1	1.1	37	17.5	93	88	48	0	5	4	0
NE OMAHA	46	36	63	28	41	0	1.0	.7	.6	7.1	111	28.7	98	98	83	0	4	3	0
NE SCOTTSBLUFF	52	26	77	15	39	1	.4	.2	.4	1.4	67	13.6	98	80	44	0	2	3	1
NE VALENTINE	48	28	72	16	38	1	.4	.2	.3	3.1	103	10.7	80	44	0	5	1	0	
NV ELY	56	27	67	16	42	5	.7	.1	.1	1.3	81	27.9	156	83	50	0	6	2	0
NV LAS VEGAS	73	51	83	41	62	6	0	0	0	.7	88	4.5	115	49	21	0	0	0	0
NV RENO	59	32	70	19	46	4	.8	.7	.5	2.0	250	9.4	171	81	32	0	3	4	0
NV WINNEMUCA	56	29	71	13	43	3	.2	0	.1	1.5	125	9.8	144	85	32	0	5	5	0
NH CONCORD	55	34	65	23	44	5	.9	.1	.5	8.0	99	38.1	120	94	57	0	2	3	0
NJ ATLANTIC CITY	58	36	67	30	47	-1	1.4	.6	1.2	8.7	109	37.6	100	99	62	0	2	3	1
NM ALBUQUERQUE	64	37	70	29	51	4	.1	.1	.2	2.3	110	7.1	91	79	25	0	3	1	0
NM CLOVIS	68	43	74	34	55	7	.0	.1	0	4.0	98	10.8	63	76	33	0	0	0	0
NM ROSWELL	69	43	77	35	56	5	.0	.1	0	5.3	183	9.5	98	83	45	0	0	0	0
NY ALBANY	52	31	64	24	42	0	.6	.1	.4	5.5	71	37.3	120	95	59	0	5	3	0
NY BINGHAMTON	49	34	64	23	42	1	.7	0	.4	6.0	76	34.3	106	88	57	0	4	4	0
NY BUFFALO	52	36	67	24	44	1	.9	0	.4	8.6	105	28.7	87	90	55	0	4	4	0
NY NEW YORK	56	41	66	36	49	-1	.9	.1	.9	11.4	136	49.5	133	90	59	0	2	3	0
NY ROCHESTER	52	36	66	21	44	1	1.5	.9	.7	8.9	131	28.9	102	94	63	0	2	4	2
NY SYRACUSE	50	33	65	20	42	-2	1.4	.7	1.0	7.2	90	28.3	82	98	70	0	3	3	1
NC ASHEVILLE	60	35	69	33	48	0	.2	.6	.1	10.6	118	40.2	94	89	50	0	0	2	0
NC CHARLOTTE	63	40	70	32	52	-1	.1	.5	.1	3.4	43	30.2	79	87	46	0	1	2	0
NC GREENSBORO	60	40	68	32	50	-1	.7	.2	.5	7.6	92	37.4	97	84	47	0	1	2	1
NC HATTERAS	65	49	73	36	57	-1	1.2	.1	1.1	17.1	130	55.9	114	86	56	0	0	2	1
NC NEW BERN	67	45	78	32	56	0	2.1	1.4	1.2	8.0	73	46.8	96	98	51	0	1	2	2
NC RALEIGH	63	42	73	30	52	0	.4	.3	.3	6.3	83	37.3	99	90	48	0	1	2	0
NC WILMINGTON	66	47	75	34	57	0	1.6	.8	1.5	8.4	77	51.2	103	95	57	0	0	2	1
ND BISMARCK	42	26	55	20	34	2	.2	.1	.1	2.4	96	12.6	83	90	53	0	6	2	0
ND FARGO	43	26	60	15	35	3	.1	.1	.1	5.2	133	18.0	93	79	51	0	5	1	0
ND GRAND FORKS	41	27	54	19	34	3	.1	.1	.1	5.5	141	20.4	117	85	60	0	6	2	0
ND WILLISTON	45	25	62	23	35	4	.2	.1	.1	1.3	50	8.5	64	86	50	0	7	4	0
OH AKRON-CANTON	54	39	67	27	46	3	1.2	.6	.7	9.1	138	33.3	102	78	51	0	2	2	0
OH CINCINNATI	55	34	68	26	44	-1	.7	0	.7	11.9	168	36.7	101	88	45	0	2	2	1
OH CLEVELAND	54	37	68	28	46	2	2.0	1.4	1.5	10.5	159	33.9	106	85	53	0	2	2	2
OH COLUMBUS	54	32	69	26	43	-1	1.3	.7	1.1	10.3	166	32.8	96	82	45	0	3	2	1

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

Weather Data for the Week Ending Nov. 12, 1983

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 28	PCT. NORMAL SINCE AUG 28	TOTAL, IN., SINCE JAN. 1	PCT. NORMAL SINCE JAN. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE			
																90 AND ABOVE	80 AND BELOW	.001 INCH OR MORE	.50 INCH OR MORE
DAYTON	54	33	68	25	44	-1	.8	.2	.7	8.1	140	32.3	101	84	44	0	3	2	1
TOLEDO	53	31	68	18	42	0	1.1	.5	.7	7.4	123	28.0	98	93	53	0	4	2	1
YOUNGSTOWN	53	37	66	26	45	2	1.0	.3	.6	10.8	148	32.9	96	87	53	0	3	2	1
OK OKLAHOMA CITY	58	42	64	29	50	-1	.7	.5	.6	14.5	201	37.0	125	87	56	0	2	2	1
TULSA	57	44	65	32	50	-2	.2	.3	.2	12.0	175	32.4	90	89	60	0	1	1	0
OR ASTORIA	55	44	62	38	50	2	2.8	.6	1.3	12.3	94	60.3	120	95	68	0	0	1	0
BURNS	46	30	57	15	38	0	.5	.3	.3	1.9	112	17.3	149	79	61	0	4	5	1
MEDFORD	54	38	60	30	46	0	.5	.1	.2	2.2	105	11.5	124	83	48	0	1	5	1
PENDLETON	56	39	60	35	48	5	1.4	.8	.6	6.1	169	20.3	137	92	57	0	0	5	0
PORTLAND	57	45	59	39	51	4	2.2	.9	.6	7.8	108	42.9	144	90	66	0	0	6	0
SALEM	56	42	60	33	49	4	1.2	0	.3	8.4	127	37.2	134	93	59	0	0	7	1
PA ALLENTOWN	55	33	65	27	44	-1	1.2	.3	.8	7.2	78	39.3	102	93	60	0	4	2	1
ERIE	55	40	70	31	48	5	1.2	.3	1.0	12.5	134	39.1	113	77	49	0	1	2	1
HARRISBURG	54	35	66	30	44	-2	1.7	1.0	1.1	7.3	92	37.3	110	91	54	0	2	2	1
PHILADELPHIA	56	37	64	30	47	-1	1.4	.6	1.3	9.9	122	43.1	119	97	54	0	2	2	1
PITTSBURGH	53	34	68	22	44	-1	1.4	.9	.7	9.1	134	34.5	103	87	52	0	1	3	1
SCRANTON	52	35	65	30	43	0	.4	.3	.2	5.9	76	33.8	107	90	62	0	4	4	2
RI PROVIDENCE	56	38	67	30	47	1	2.1	1.1	1.8	9.4	101	51.5	134	88	50	0	2	2	0
SC CHARLESTON	67	50	74	39	59	0	.8	.3	.6	7.4	76	48.0	99	91	59	0	0	3	1
COLUMBIA	64	42	73	31	53	-3	.1	.5	.1	5.7	68	35.4	80	95	51	0	2	2	0
FLORENCE	65	45	72	32	55	-1	1.2	.7	1.2	5.8	75	42.8	109	96	58	0	1	2	1
SD GREENVILLE	61	40	66	32	50	-2	.2	.1	.1	2.6	93	20.2	119	96	66	0	1	2	0
ABERDEEN	44	28	61	18	36	2	.5	.3	.3	4.7	138	17.0	94	98	65	0	4	3	0
HURON	45	28	62	17	37	1	.5	.3	.3	4.7	138	17.0	94	98	65	0	4	3	0
RAPID CITY	48	29	66	19	39	1	.4	.2	.3	2.5	109	14.3	91	86	51	0	3	4	0
SIoux FALLS	46	32	63	23	39	3	.3	.1	.2	4.5	85	23.6	98	100	70	0	4	3	0
TN CHATTANOOGA	59	37	71	30	48	-3	.2	.7	.2	5.4	59	35.8	78	90	51	0	2	2	0
KNOXVILLE	59	36	72	30	48	-3	.2	.7	.2	5.4	59	35.8	78	90	51	0	2	2	0
MEMPHIS	59	41	74	32	50	-3	.3	.6	.1	5.5	75	33.3	81	91	47	0	1	2	0
NASHVILLE	59	37	74	30	48	-3	.2	.6	.2	5.9	76	40.9	90	90	52	0	1	2	0
TX ABILENE	69	48	77	36	59	3	.2	.6	.2	4.7	57	38.2	89	97	51	0	2	2	0
AMARILLO	65	38	80	26	52	4	.1	.1	.1	3.8	95	14.3	74	87	34	0	2	1	0
AUSTIN	73	52	80	40	63	2	T	.5	T	6.9	82	37.3	107	82	44	0	0	2	0
BEAUMONT	69	52	78	39	61	-1	1.0	0	.9	12.6	104	69.3	147	93	60	0	0	2	1
BROWNSVILLE	80	58	85	46	69	0	.5	.1	.4	12.1	120	27.8	113	95	53	0	0	2	0
CORPUS CHRISTI	76	56	81	47	66	-1	.7	.3	.5	12.7	119	36.4	123	89	53	0	0	2	1
DEL RIO	73	53	80	43	63	1	T	.2	T	3.7	65	10.7	61	87	43	0	0	1	0
EL PASO	72	44	77	34	58	4	0	.1	0	6.3	242	10.9	142	78	29	0	0	0	0
FORT WORTH	64	45	73	36	55	-3	T	.4	T	4.9	72	28.9	104	86	52	0	0	1	0
GALVESTON	72	57	78	46	64	0	1.1	.4	.9	14.1	140	49.7	137	86	59	0	0	2	1
HOUSTON	71	49	76	38	60	-2	.8	0	.6	10.4	99	47.9	117	90	53	0	0	2	1
LUBBOCK	68	43	78	32	56	5	T	.2	T	11.6	247	19.8	109	92	43	0	1	0	0
MIDLAND	70	46	80	37	58	4	0	.1	0	6.4	164	9.4	70	86	42	0	0	1	0
SAN ANGELO	78	48	92	34	63	6	0	.3	0	4.8	81	14.8	82	89	34	1	0	0	0
SAN ANTONIO	73	51	79	39	62	1	.4	.2	.4	7.8	96	25.1	92	83	45	0	0	1	0
VICTORIA	73	52	80	40	63	-1	1.1	.6	.5	14.2	129	41.3	119	98	54	0	0	2	2
WACO	67	48	77	34	57	-2	T	.5	T	3.3	45	21.9	75	89	56	0	0	1	0
WICHITA FALLS	64	45	76	31	54	0	.1	.3	.1	8.8	122	24.5	94	89	52	0	1	1	0
UT BLANDING	55	31	65	20	43	2	.4	.2	.4	4.4	147	13.8	141	84	45	0	4	1	0
CEDAR CITY	59	35	70	20	47	6	.4	.2	.3	1.6	76	12.5	134	76	34	0	2	2	0
VT SALT LAKE CITY	58	36	72	29	47	5	.7	.4	.4	3.7	137	18.8	142	85	42	0	2	2	0
VA BURLINGTON	48	33	58	27	41	1	1.5	.9	1.0	11.8	155	41.8	138	86	58	0	3	3	1
NORFOLK	63	43	74	38	53	-1	.6	.1	.6	12.1	126	40.9	99	86	49	0	0	1	1
RICHMOND	61	38	70	32	50	-1	1.6	.9	1.6	8.8	98	35.1	90	92	48	0	1	1	1
ROANOKE	56	36	64	31	46	-3	1.7	1.1	1.7	11.1	132	40.1	112	86	51	0	2	1	1
WA COLVILLE	45	36	54	33	40	5	2.1	1.6	.7	5.2	179	23.6	167	97	84	0	0	5	2
QUILLAYUTE	53	43	62	40	48	3	6.2	3.1	2.9	24.1	112	94.3	119	98	75	0	0	7	2
SEATTLE-TACOMA	55	45	59	40	50	4	.9	.3	.3	8.5	112	31.7	110	81	50	0	0	6	4
SPOKANE	47	36	54	34	41	4	1.9	1.5	1.0	4.9	188	18.2	135	94	49	0	0	6	1
YAKIMA	51	34	57	24	43	3	1.0	.8	1.0	2.3	177	9.7	170	87	58	0	3	3	1
WV BECKLEY	51	31	66	23	41	-3	.5	.2	.4	7.1	96	31.3	83	91	57	0	4	3	0
CHARLESTON	58	34	74	30	46	-2	2.6	1.9	2.3	11.1	150	37.8	99	83	47	0	2	3	1
HUNTINGTON	57	34	72	31	45	-2	1.0	.4	.9	7.8	113	32.4	89	85	44	0	2	2	1
PARKERSBURG	56	35	71	30	46	-1	1.7	1.1	1.6	13.6	216	39.4	105	98	55	0	2	2	1
WI GREEN BAY	46	31	58	19	38	1	.4	0	.2	6.5	102	27.0	104	93	64	0	4	3	0
LA CROSSE	45	34	56	17	39	0	.7	.4	.7	8.0	119	25.7	87	95	62	0	3	3	1
MADISON	46	30	57	14	38	0	.7	.3	.4	6.6	102	27.0	93	98	68	0	3	2	0
MILWAUKEE	49	35	60	21	42	2	.2	.2	.2	5.9	95	31.1	111	93	66	0	3	2	1
WAUSAU	42	29	52	15	35	0	1.1	.6	.9	10.9	145	27.7	90	94	57	0	4	2	1
WY CASPER	45	25	64	10	35	0	1.3	1.1	.7	2.4	114	16.0	150	90	57	0	7	2	0
CHEYENNE	50	26	64	15	38	1	.4	.3	.4	1.6	84	18.3	144	87	44	0	5	1	2
LANDER	42	20	64	8	31	-3	1.5	1.3	.9	2.5	96	13.1	107	88	54	0	7	2	0
SHERIDAN	53	27	70	19	40	5	.3	.1	.2	2.4	80	8.3	58	86	41	0	6	2	0
PR SAN JUAN	90	76	93	75	83	3	.3	-1.0	.1	8.4	56	37.0	76	90	64	3	0	3	0

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

HEATING DEGREE DAY DATA WEEKLY SUMMARY
CLIMATE ANALYSIS CENTER-NMC-NWS-NOAA
ASSESSMENT AND INFORMATION SERVICES CENTER-NESDIS-NOAA

LAST DATE OF DATA COLLECTION PERIOD IS 11-12-1983
ACCUMULATIONS ARE FROM JULY 1
** = NORMAL LESS THAN 100 OR RATIO INCALCULABLE

Table with columns: STATE CITY, CALL WEEK, WEEK DEV, WEEK FROM, WEEK TO, CUM TOTAL, CUM FROM, CUM FROM, CUM FROM, CUM FROM, CUM FROM. Lists cities from AL BIRMINGHAM to MT KALISPELL.

Table with columns: STATE CITY, CALL WEEK, WEEK DEV, WEEK FROM, WEEK TO, CUM TOTAL, CUM FROM, CUM FROM, CUM FROM, CUM FROM, CUM FROM. Lists cities from MT MILES CITY to WY SHERIDAN.

November 7 to 13

HIGHLIGHTS: Rain, snow, and wet conditions hampered the harvest of the remaining row crops from the central Plains through the Lake States and into the Northeast. Precipitation benefited winter wheat across portions of the Great Plains, but more is needed to sustain good development. The first freeze of the season pushed southward, reaching northern Louisiana, central Mississippi, and Alabama, northern Georgia, and South Carolina. Heavy rain delayed field activities from northern California into the Pacific Northwest. Farmers in the western Corn Belt had less than 4 days suitable for fieldwork. In other areas, 4 to 5 days were available. Soil moisture ranged from short to mostly adequate across the Nation. Winter wheat seeding was 94% finished; 85% of the acreage had emerged. Corn combining advanced to 95% complete, 10 percentage points ahead of the average. Soybeans were 84% harvested, 3 points behind last year and the average. Cotton picking advanced to 63%, 2 points ahead of normal. Sorghum harvesting was 90% finished, compared with 88% for both last year and the average. Frosts killed the remaining tender vegetables from northern Louisiana eastward into South Carolina. Light harvests of hardy vegetables continued in the north. Citrus harvesting increased seasonally. Livestock were rated fair to good. Supplemental feeding continued.

SMALL GRAINS: Winter wheat seeding in the 15 major producing States was 94% complete, equal to a year earlier, but 1 point behind the average. Seeding neared completion in all States except California, Missouri, Oklahoma, and Texas. Wheat had emerged on 85% of the acreage, only slightly behind normal. Winter wheat in Kansas was in mostly excellent condition, except in the west where stands were rated only fair. Wet fields thwarted further seeding of winter wheat in Oklahoma. However, ample moisture provided good growing conditions for planted fields. Showers were helpful in promoting winter wheat growth in Texas and seeding made good progress. Producers planted 3% of their acreage during the week. Winter wheat was in mostly good condition across the Corn Belt and generally fair to good elsewhere.

CORN: Combining in the 17 major producing States slowly moved to the 95% mark as rain or wet fields delayed progress in most regions. However, progress was 16 points ahead of the 1982 harvest and 10 points ahead of normal. Harvesting was equal to or ahead of normal in all States except Virginia. Snow and wet conditions hindered completion of the harvest from the central Plains through the Lake States. Producers in the western Corn Belt were 98% complete compared with the average of 83%. Eastern Corn Belt producers were 94% finished, 8 points ahead of schedule. Southeastern growers harvested 6% of their crop during the week, reaching 97% completion.

SOYBEANS: Harvesting advanced to 84% in the 18 major producing States, 3 points behind last year and the average. Progress lagged in 13 of the 18 States. Combining was finished in Indiana and neared completion in Illinois, Iowa, Michigan, and Ohio. During the week, growers in Alabama harvested 18% of their acreage; Kentucky farmers, 17%; Mississippi growers, 16%; and Arkansas farmers harvested 15% of their crop. Combining was near completion in the Corn Belt, nearly three-quarter's finished in the south-central States, but only 35% complete in the Southeast.

COTTON: In the 14 major producing States, 63% of the acreage had been picked, 3 points behind last year and 2 points behind the average. Progress was 19 percentage points ahead of schedule in Tennessee and North Carolina growers were 14 points ahead. In contrast, New Mexico producers trailed the average by 23 points and Oklahoma growers were 15 points behind. Picking was nearly finished in Missouri and South Carolina, but only 15% complete in Oklahoma. Harvesting made little progress because of wet conditions in Texas. Freezing temperatures on the Plains helped reduce foliage. Picking neared the halfway mark in that State, slightly ahead of schedule. Fifty-five percent of the acreage in Arizona has been picked at least once. California producers began second picking of some fields; harvesting reached 70% completion.

OTHER CROPS: Sorghum harvesting advanced to the 90% mark, ahead of 88% for both last year and the average. Growers in Kansas and Oklahoma harvested 5% of their crop during the week, while Missouri and South Dakota producers harvested only 1%. Harvesting was completed in South Dakota and neared completion in Colorado. Wet conditions hampered completion of the harvest in Texas.

Tobacco curing, grading, and marketing continued very active. The burley crop in Kentucky was 26% stripped. Leaves were small while weight and quality appeared variable. In Tennessee, 54% of the burley crop had been stripped. Flue-cured tobacco marketing continued active in Virginia and burley stripping started.

Peanut digging advanced rapidly. Digging was finished in Georgia and 99% of the crop has been threshed. Virginia producers have dug 98% of the crop and combined 93%. Eighty-eight percent was harvested in North Carolina and 64% threshed. Texas growers harvested 69%, trailing the 78% average.

FRUITS AND NUTS: Florida's citrus groves were in excellent condition with adequate moisture. Crop maturity advanced but still lagged normal. Picking increased as demand was good. The harvest gained momentum in the Rio Grande Valley of Texas. Oranges and grapefruit showed good quality. Arizona's citrus harvest increased in all producing areas. Grapefruit picking was light but lemon and Navel orange harvesting picked up. Groves were in good condition and fruit was sizing normally. Growers in California pruned deciduous trees and applied pre-emergence herbicides in orchards and vineyards. Navel orange picking gained momentum but volume was limited by the external color.

VEGETABLES: Freezing temperatures pushed southward damaging the remaining tender vegetables from northern Louisiana to South Carolina. Decreasing volumes of hardy vegetables were harvested in the North. Florida's vegetable shipments increased 56% from the previous week. Most crops gained in volume, except sweet corn, which remained steady, and eggplant which declined in volume. Strawberry transplanting was completed and plants were making good growth. Growers in southern producing areas continued actively seeding and transplanting most crops. Texas producers harvested cucumbers, peppers, cabbage, broccoli, and carrots. Only light volumes of East Texas sweetpotatoes were shipped. In Arizona, lettuce and other vegetables were shipped in increasing volumes. Rains delayed field activities in northern California. Broccoli cutting was fairly heavy along the central coast

(continued on p. 15)

CROP PROGRESS

FOR WEEK ENDING NOV 13, 1983

WINTER WHEAT % PLANTED				WINTER WHEAT % EMERGED				CORN % HARVESTED				SOYBEANS % HARVESTED			
	1983	1982	AVG.		1983	1982	AVG.		1983	1982	AVG.		1983	1982	AVG.
CALIF	40	40	38	CALIF	20	25	25	COLO	92	75	77	ALA	72	80	77
COLO	99	100	100	COLO	84	98	96	GA	98	99	97	ARK	66	81	73
IDAHO	100	100	100	IDAHO	100	96	99	ILL	99	94	93	GA	49	62	61
ILL	98	99	98	ILL	92	90	90	IND	96	92	86	ILL	99	100	99
IND	100	100	97	IND	95	93	85	IOWA	99	76	86	IND	100	100	94
KANS	95	99	98	KANS	90	96	96	KANS	98	95	90	IOWA	98	96	99
MO	88	88	89	MO	74	73	75	KY	92	90	91	KANS	80	95	85
MONT	100	100	100	MONT	100	100	100	MICH	90	80	76	KY	81	84	87
NEBR	100	100	100	NEBR	100	100	100	MINN	96	60	79	LA	84	80	87
OHIO	100	100	100	OHIO	95	95	90	MO	94	86	83	MICH	97	98	92
OKLA	90	85	95	OKLA	80	55	80	NEBR	97	65	80	MINN	95	94	97
OREG	96	96	96	OREG	90	80	83	N C	99	100	97	MISS	69	78	78
S DAK	100	100	100	S DAK	100	100	100	OHIO	85	95	85	MO	85	87	89
TEX	90	87	91	TEX	69	65	74	PA	78	69	72	NEBR	95	97	99
WASH	100	100	100	WASH	98	95	95	S DAK	98	53	88	N C	30	31	45
15 STATES	94	94	95	15 STATES	85	83	87	VA	88	89	89	OHIO	98	100	96
								WIS	86	52	73	S C	22	27	38
								17 STATES	95	79	85	TENN	73	85	73
												18 STATES	84	87	87

THESE 15 STATES PRODUCED 80% OF THE 1982 WINTER WHEAT CROP. THESE 15 STATES PRODUCED 80% OF THE 1982 WINTER WHEAT CROP.

THESE 17 STATES PRODUCED 93% OF THE 1982 CORN CROP.

THESE 18 STATES PRODUCED 94% OF THE 1982 SOYBEAN CROP.

SORGHUM % HARVESTED			
	1983	1982	AVG.
COLO	99	85	74
KANS	85	85	80
MO	89	84	85
NEBR	97	80	90
OKLA	55	65	70
S DAK	100	74	94
TEX	94	97	95
7 STATES	90	88	88

THESE 7 STATES PRODUCED 90% OF THE 1982 SORGHUM CROP.

COTTON % HARVESTED			
	1983	1982	AVG.
ALA	89	87	82
ARIZ	55	50	55
ARK	95	93	86
CALIF	70	75	80
GA	72	74	84
LA	88	84	90
MISS	92	91	88
MO	97	100	89
N MEX	29	55	52
N C	91	71	77
OKLA	15	5	30
S C	98	85	89
TENN	95	95	76
TEX	47	41	42
14 STATES	63	60	61

THESE 14 STATES PRODUCED 99% OF THE 1982 COTTON CROP.

November Crop Production Highlights

CORN FOR GRAIN production forecast at 4.12 billion bushels, less than half of last year's record high and down 3 percent from October 1.

SORGHUM GRAIN production forecast at 482 million bushels, unchanged from last month but down 43 percent from last year.

FEED GRAIN production (corn, sorghum, oats and barley combined) expected to total 135 million metric tons, down 47 percent from last year.

SOYBEAN production forecast at 1.54 billion bushels, 7 percent more than October 1 but 31 percent below last year.

OILSEED production (soybeans, cottonseed, peanuts, flaxseed and sunflower combined) is expected to

total 47.6 million metric tons, down 31 percent from last year.

ALL COTTON production forecast at 7.50 million bales, 37 percent below 1982 production and 1 percent below a month earlier.

ALL TOBACCO production forecast at 1.38 billion pounds, 30 percent below last year, up fractionally from last month, smallest crop since 1941.

SUGAR CROPS: Sugarbeet production forecast at 21.1 million tons, off 1 percent from both the October 1 forecast and the 1982 crop. Sugarcane for sugar and seed forecast at record high 30.7 million tons, 1 percent above October 1 forecast, up 3 percent from year ago.

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 Statistical Offices in cooperation with the National Weather Service.

ALABAMA: Temperatures below normal. Rainfall none to 0.25 in.

Soil moisture short to adequate. Field-work: 5.5 days. Soybeans harvested 72%, 1982 80%, average 77%. Cotton harvested 89%, 1982 87%, average 82%. Sorghum harvested 90%, 1982 91%. Wheat seeded 67%, 1982 64%, average 74%. Conditions: Livestock and wheat fair, pasture mostly fair.

ARIZONA: Mostly sunny weather prevailed over southern half State, partly cloudy over northern. Few widely scattered showers over north 7th, 8th, 11th, 12th. Amounts varied from traces to 0.40 in. Average temperatures ranged from 1 to 7° above seasonal normals.

Cotton 55% picked over once, 50% year ago, average 55%. All major producing counties reported from 50% to 60% of the acreage picked at least once. Harvest progress remained behind year ago, average through October. Good harvest weather first two weeks November spurred harvest to peak. Sorghum harvest near complete Pinal County, delayed by high moisture content of grain or wet soils some southeastern areas. Harvest started some areas of northern half. Corn harvest virtually complete south, southwest, increasing other areas. Land preparation small grains active most areas, seeding activities increasing Yuma County. Haying seasonal low all areas, some alfalfa harvested as green chop Maricopa County. Sheep grazing many alfalfa fields southern areas. Lettuce harvest got underway Marana, practically finished Willcox. Volume of lettuce moving Yuma, the Salt River Valley increased. Mixed vegetables moved in volume Salt River Valley. Few honeydews, cantaloups picked Mohave Valley, harvest Yuma County virtually complete. Cauliflower, broccoli stands made excellent progress. Citrus harvest continued increasing all producing areas. Lemon movement increased volume Yuma, the Salt River Valley. Grapefruit picking movement continued light. Navel orange harvest picked up volume Salt River Valley, little or no picking other areas. Few tangerines expected to be picked Salt River Valley by 20th. Citrus crops not yet harvested, sizing normally, groves good condition.

ARKANSAS: Midweek showers brought temperatures from 2 to 4° below normal. High 74°, low 21°. Rainfall at all stations. Most 0.83 in.

Days suitable for fieldwork 4.3. Soil moisture adequate, except short southwest and northwest. Cotton harvested 95%, 93% 1982, 86% average. Soybeans poor to good condition: harvested 66%, 81% 1982, 73% average. Wheat good condition: planted 73%, 78% 1982, 76% average. Oats good; planted 88%, 96% 1982, 86% average. Pastures below average but improving. Cattle fair.

CALIFORNIA: Some precipitation over the entire State mainly the latter part of the week except scattered through the week over the North Coast and northern mountains. Largest totals over the North Coast and North Coast mountains were as much as 5.00 to 7.00 in. Weekly average temperatures narrowly mixed about the season normal but generally 2 to 5° above normal in southern half of the State. Cold snap midweek dropped Central Valley temperatures into low thirties and northeast into the middle

teens. Interior valleys of Central Coast dropped into mid twenties.

Rain slowed field activities late in week. Cotton harvest rapid progress. Now 70% complete, 75% year ago, 80% average. Many fields second picking. Small grain seeding gaining momentum. Winter wheat 40% planted, same as year ago, ahead of 38% average. Crop now 20% emerged, 25% year ago and averaged. Final alfalfa hay cutting nearing completion. Seeding new alfalfa fields active. Growers green pruning deciduous trees and applying pre-emergence herbicides in orchards and vineyards. Navel harvest gaining momentum but still limited by external color, 1982-83 Valencias still winding down. Field activities delayed by rain north. Artichoke supplies very light. Broccoli harvest fairly heavy Central Coast, increasing South Coast. Cantaloup harvest decreasing Desert. Carrot supplies moderate central area, harvest started Coachella Valley. Cauliflower harvest fairly heavy Central Coast. Celery harvest near peak Central Coast, starting South Coast. Lettuce harvest decreasing central area. Desert harvest starting. Harvest green peppers nearing completion. Potato harvest complete Tulelake-Butte Valley. Sweetpotato harvest virtually complete. Market tomato harvest decreasing Central region; moderate supplies South Coast. Cattle rapidly moved foothill pastures, rain improves growing conditions. Southern range, pasture need moisture, supplemental feeding needed. Calving, lambing continue. Lamb losses due to predators minimal.

COLORADO: Winter-like weather dominated the week. Rain and snow fell over much of the State. Seasonable weather returned to eastern Plains late in the week, while most of the West Slope continued to receive rain with snow at higher elevations.

Winter wheat in fair condition: 99% seeded, 100% last year and average; 84% emerged, 98% last year, 96% average. Corn in good condition: 92% harvested, 75% last year, 77% average. Sorghum in fair condition: 99% harvested, 85% last year, 74% average. Statewide 5.0 days suitable for fieldwork. Topsoil and subsoil moisture very short in southeast, adequate on West Slope and short elsewhere. Range and pasture conditions: Poor in southeast, fair to good over remainder of State.

FLORIDA: After a week of occasional showery, breezy, unsettled weather, colder conditions arrived during the weekend. A series of frontal systems moved through the State. Rainfall quite variable but nearly all reporting stations had some rain. Heaviest amounts occurred southwest with some spots reporting 3.00 in. A cool front, light freeze occurred Panhandle, Big Bend area, morning of 13th. Overall temperatures averaged near normal.

Topsoil moisture supplies generally adequate; however shortages continue, few Panhandle, Upper Peninsula areas. A few coastal localities, primarily east of Lake Okechobee, have surplus moisture. Soybean harvest continues very active but slowed somewhat by showers. Peanut harvest complete several major producing areas, virtually finished elsewhere. Sugarcane harvest active with all mills grinding. Early planted small grains good to excellent progress. Few

late cuttings of hay continue, Peninsula areas. Pasture conditions remain generally good, south but poor to fair elsewhere. Seasonally cool weather has slowed growth of permanent pastures. Winter pastures making excellent growth. Cattle generally good condition Statewide. Citrus groves excellent condition. Moisture adequate. Early citrus good color break. Maturity advancing nearer to normal. Harvest continues to increase with good demand. Caretakers completing winterizing young trees. Cool front brought scattered showers vegetable area. Some locally heavy showers. Ideal weather late week. Overall shipments increased 56% over previous week. Crops increasing were snap beans, cabbage, carrots, celery, Chinese cabbage, cucumbers, escarole, lettuce, parsley, peppers, radishes, squash, tomatos. Sweet corn shipments remained steady. Eggplant volume declined. Most crops gaining seasonally. Volume production expected December. Strawberry transplanting complete. Plants making good growth. Seeding, transplanting most crops continues active, southern area.

GEORGIA: Temperatures 0 to 5° above normal. Near 0.10 in. rainfall north and central early in week. About 0.25 in. southwest and 1.00 to 2.00 in. southeast around midweek. A clear and rather cold 12th and 13th. Average temperatures 8 to 15° below normal Statewide. No rain.

Soil moisture: 11% very short, 52% short, 36% adequate. Average days suitable for fieldwork 4.3. Major activities: Harvesting and planting small grains. Conditions: Cotton 20% poor, 58% fair, 20% good; soybeans 5% very poor, 12% poor, 69% fair, 14% good; pecans 3% very poor, 15% poor, 52% fair, 30% good; wheat 6% poor, 55% fair, 39% good; rye 8% poor, 52% fair, 36% good, 3% excellent; other small grains 6% poor, 49% fair, 43% good; pastures 17% poor, 46% fair, 34% good. Crop progress: Corn 98% harvested, 99% last year, 97% average; cotton 97% bolls open, 98% last year, 99% average; 72% harvested, 74% last year, 84% average; peanuts 100% dug, this year, last year and average; 99% threshed, 100% last year and average; soybeans 98% dropping leaves this year and average, 99% last year; 49% harvested, 62% last year, 61% average; wheat 38% planted this year and last, 47% average; rye 79% planted, 78% last year, 70% average; other small grains 66% planted this year and last, 65% average; apples 99% picked this year and average, 100% last year; pecans 22% harvested, 48% last year, 41% average.

HAWAII: Generally favorable weather continued in the Island Chain. Most growing areas were dry. Regular irrigation and spraying programs were maintained for good crop development. Chinese cabbage and head cabbage output heavy. Banana supplies steady. Papaya production heavy. Peak season. Pineapple and sugar harvesting slowed. Some mills closed down for annual cleaning and/or coast savings measures. Pastures generally fair.

IDAHO: A moist flow of air from the Pacific Ocean brought periodic rains with snow in the higher mountains. Both temperatures and precipitation averaged well above normal. Temperatures ranged from 2 to 8° above average. Precipitation varied from near normal in the southwest and south central areas to 0.50 in. or more above normal in much of the north. Over 1.00 in. of rain fell in areas of the north and southeast. Sandpoint had the greatest rainfall for the week with 1.50 in., followed closely by Moscow with 1.46 in.

Periodic precipitation limited fieldwork. Winter wheat was nearly all emerged by week's end. Sugarbeet and corn for grain harvesting continued when the weather permitted. Some cattle were being weaned and marketed. Winter was moving into the State with snow at higher elevations. Most livestock have been moved from summer ranges with lambs reported on fall desert ranges in some areas.

ILLINOIS: Temperatures 2° below normal to 4° above normal. Precipitation 0.18 to 1.47 in. Soil moisture 19% short, 69% adequate, 12% surplus. Days suitable fieldwork: 3.8. Corn 99% harvested, 1982 94%, average 93%. Soybeans 99% harvested, 1982 100%, average 99%. Wheat 98% planted, 1982 99%, average 98%; emerged 92%, 1982 90%, average 90%; condition 15% excellent 71% good, 13% fair, 1% poor. Sorghum harvested for grain 97%, 1982 94%, average 92%. Fall plowing 58% complete, 1982 52%, average 55%. Pasture condition 5% excellent, 46% good, 44% fair, 5% poor; supplying 36% of livestock roughage requirements, 1982 46%, average 39%. Livestock condition good.

INDIANA: Highest temperatures reached the mid 60's to low 70's at midweek. Lowest readings were in the mid and upper 20's. Rainfall totals were 0.60 to 0.80 in. north, 0.70 to 1.90 in. central and from 0.70 to 1.00 in. south.

A moderate freeze occurred morning of 12th but not low enough to stop alfalfa or forage growth. Fieldwork averaged 5.0 days. Topsoil moisture adequate. Subsoil moisture short to mostly adequate. Corn 96% planted, 1982 92%, average 86%. Corn moisture 20%, 1982 18%. Soybeans 100% combined, 1982 100%, average 94%. Winter wheat 100% seeded, 1982 100%, average 97%. Wheat 95% emerged, 1982 93%, average 85%. Wheat stands good. Wheat condition good. Spring cropland 55% tilled, 1982 40%, average 40%. Tobacco 20% processed for sale, 1982 20%. Pastures good condition.

IOWA: Mild early week turning much cooler at midweek. Moderate to heavy precipitation. Measurable snow over most of the State at the weekend and northwest early week.

Corn harvested 99%, 76% last year, 86% normal. Soybeans harvested 98%, 96% last year, 99% normal.

KANSAS: Precipitation averaged 0.30 in. west, 1.20 in. northeast, 0.40 to 0.90 in. elsewhere. First significant snow of season with 4 in. extreme northwest. Temperatures averaged 43 to 46°, normal to 3° above normal.

Sorghum 85% harvested, 85% last year, 80% average. Soybeans 80% harvested, 95% last year, 85% average. Corn 98% harvested, 95% last year, 90% average. Wheat 95% planted, 99% last year, 98% average; 90% emerged, 96% last year, 96% average; 4% pastured, 10% last year, 5% average. Wheat condition fair west, excellent elsewhere. Pastures and range good. Soil moisture short west, adequate elsewhere. Wet weather preventing harvest completion. Days suitable for fieldwork 2.0.

KENTUCKY: Week began mild with high temperatures reaching 70's at most locations. A cold front brought rain and much colder temperatures end of week. Average temperatures ranged from 1 to 4° below normal. Precipitation widespread from about 0.30 to 1.00 in. A few locations reported snow flurries as precipitation ended.

Nearly 4.0 days favorable fieldwork. Soil moisture 6% short, 89% adequate, 5% surplus. Corn harvest 92% complete, last year 90%, average

91%. Soybean harvest rapid progress, now 81% complete, last year 84%, average 87%. Burley 26% stripped, last year 32%, average 34%. Leaves small, weight and quality variable. Little or no houseburn damage. Condition of emerged wheat good, some fields may be making too much growth. Pastures have improved, now mostly good.

LOUISIANA: Rainfall averaged less than 0.25 in. Statewide. Temperatures 3 to 5° below normal north, 1 to 3° below normal south. High temperature 81°; low temperature 30°.

Soil moisture ranged from short north to adequate south. Days suitable 4.6. Cotton harvested 88%, 84% 1982, 90% average, condition fair. Soybeans harvested 84%, 80% 1982, 87% average, condition fair to good. Sweetpotatoes harvested 94%, 97% 1982, 96% average. Sugarcane harvested 46%, 47% 1982, 45% average, condition fair to good. Wheat seeded 68%, 48% 1982, 71% average; wheat emerged 43%, 30% 1982, condition fair. Pecans harvested 22%, 51% 1982, 41% average. Vegetables rated fair to good. Pastures rated fair. Livestock rated fair to good.

MARYLAND AND DELAWARE: Maryland: Light showers on the 6th and heavier showers on the 10th and 11th limited fieldwork to just over 4.0 days in which to wind up harvest of soybeans and corn and the seeding of small grains. Corn harvest and the seeding of barley and oats were one week behind last year. Soybean harvest less than one week behind schedule. Wheat seeding equal to last year and rye seeding one week ahead of 1982 progress. Corn 95% harvested, 90% last year. Soybean leaf shed 100%, one week behind 1982. Soybean harvest 65%, 75% last year. Barley seeding completed except for a few fields, 100% 1982. Wheat 90% seeded this year and last. Rye, all but a few fields seeded, one week ahead of 1982. Oats 95% seeded, 100% last year.

Delaware: Grain corn all harvested except in a few scattered fields, the same as the last 2 years. Soybean leaf shed complete, 2 weeks behind last year. Soybean harvest at 75% is also two weeks behind last year's pace. Barley seeding 100% this year and last. Wheat planted 80%, over one week behind last year's 100%. Rye planted 75% also over a week behind schedule.

MICHIGAN: Above normal temperatures prevailed in all areas except the western portion of the Upper Peninsula. Individual locations reported a range of 39 to 55° between their maximum and minimum temperatures. Measurable snow fell over both Peninsulas. Total precipitation was light to moderate. The heaviest amount reported was 1.49 in. over the west half of the Upper Peninsula.

Excellent harvest progress early in the week but rain and snow late in the week slowed progress. Statewide 5.0 days were suitable for fieldwork. Corn advanced to 90% harvested, 80% last year, 76% average. Soybeans 97% harvested, 98% last year, 92% average. Sugarbeet harvest virtually complete. Fall tillage operations nearing the half-way mark. Apple harvest has finished in all areas. Orchard operators busy pruning trees and cleaning up orchards for winter.

MINNESOTA: Temperatures averaged 2 to 3° above normal for northwest and north central and near normal elsewhere. High: 60°, low: 7°. Precipitation average 0.04 to 0.22 in. below normal for northern 1/3rd of State and 0.23 to 0.56 in. above normal elsewhere.

Snowfall during the week ranged from zero in the northwest and north central to a trace to 5 in. elsewhere with the largest amounts occurring in the central portions of the State. Snow depth at weeks end were zero to a trace for the State.

MISSISSIPPI: Average temperatures 5° below normal, extremes 23 and 80°. Greatest 24-hour rainfall 0.47 in. Scattered frost in the northern area of the State on 12th.

Soil moisture short in the southern part of the State, adequate in other areas. Fieldwork 4.8 days suitable, 4.8 days 1982, 5.1 days average. Cotton 92% harvested, 91% 1982, 88% average. Soybeans 69% harvested, 78% 1982 and average. Corn 97% harvested, 97% average. Peanuts 92% harvested. Sweetpotatoes 81% harvested, 95% last year. Pecans 21% harvested, 54% 1982, 44% average. Wheat good to fair, 66% seeded, 60% 1982, 70% average. Pasture condition fair to good. Livestock condition good to fair.

MISSOURI: Rain for November continued above normal averaging 1.50 in. across the north and between 0.50 to 1.00 in. across the central and southern sections. Temperatures were seasonal, averaging only 1° above normal. Low temperatures dropped to freezing or below late in the week.

Days suitable for fieldwork: 1.2. Corn 94% harvested, 86% last year and 83% normal. Grain sorghum 89% harvested, 84% last year and 85% normal. Soybeans 85% harvested, 87% last year and 89% normal. Winter wheat 88% seeded, 88% last year and 89% normal. Plowing for spring crops 50% completed, 47% last year and 47% normal. Cotton 97% harvested, 100% last year and 89% normal. Pasture condition 6% poor, 54% fair, 39% good and 1% excellent. Topsoil moisture supplies 1% short, 60% adequate and 39% surplus.

MONTANA: Temperatures were quite mild ranging from 3 to 8° above normal. Moderate to heavy precipitation covered west, southwest, south central and southeast 0.25 to 0.75 in. were common -- but with some areas receiving over 2 in. The remainder of the State had only light amounts.

Soil moisture generally adequate except central and north central districts. All harvesting including sugarbeets complete. Winter wheat condition good except fair to good in north central and northeast. Planting and emergence 100% complete, same as last year and average. About 15% cattle and sheep on supplemental feed.

NEBRASKA: Temperatures near normal. Precipitation common. Amounts 0.30 in. west up to 0.90 in. southeast.

Corn harvested 97%, 65% last year and 80% average. Sorghum harvested 97%, 80% and 90%. Soybeans harvested 95%, 97% and 99%. Winter wheat mostly good to fair. Topsoil moisture adequate. Subsoil mostly adequate to short. Pasture and range feed adequate. Days suitable for fieldwork 2.5.

NEVADA: Storm fronts beginning and end of period. Early storm dropped temperatures into teens north 30's and 40's south. Strong winds prevailed midweek. Brisk winds and scattered showers continued rest of week north, south mostly fair with high winds. Snow widespread end of period. Most melted valley floors but accumulated high elevations. Some ski resorts opened.

Movement cattle from high elevations accelerated by stormy weather. Supplemental feeding increased due snow. Cattle mostly in good condition.

NEW ENGLAND: Temperatures averaged within 3° of normal. Midweek temperatures reached the low 70°'s, then cooled over the weekend. High winds accompanied the frigid temperatures, falling to 10° in Houlton, Maine.

New England received over 0.75 in. of precipitation late in the week, with many areas receiving over 1.50 in. Precipitation fell as snow in northern areas with accumulations of 3.00 in. at Diamond Lake, New Hampshire.

NEW JERSEY: Temperatures 3° below normal, averaging 42° north, 46° south and 47° coastal. Extremes 20 and 70°. Precipitation well above normal, averaging 1.32 in. north, 1.65 in. south and 1.08 in. coastal. The heaviest 24-hour total 2.25 in. on 10th to 11th.

Fieldwork: light harvest of hardy vegetables continues. Harvest of field corn about 85% complete. Soybean combining nearly 75% complete. Potatoes, sweetpotatoes and apples available from storages. Cider making active. Fall sown grains in good condition.

NEW MEXICO: Temperatures generally 4 to 5° above normal over State. Coolest temperatures occurred midweek. Minimum 10°, northern mountains. Maximum 79°, northern mountains. Some scattered showers over northern half of State. Otherwise, little precipitation.

Soil moisture supplies adequate. Cotton harvested: 29% current, 55% last year, 52% average. Alfalfa working on final cutting. Grain sorghum harvest winding down, some producers await hard freeze. About 80% irrigated crop harvested. Corn harvest virtually complete. Irrigation wheat, barley rated good. Dryland fields improving, rated fair to good. Fall planting continues several counties. East side peanuts 15% threshed still drying out and showing black hulls. Most apple orchards picked. Mesilla Valley red chile harvest continues. Pecan harvest beginning. Clean-up harvest of fall lettuce. Range condition poor to fair, east side; good, mountain areas. Cattle, sheep rated good. Yearlings lighter than normal.

NEW YORK: Week began wet and cold, warmed toward midweek with little or no precipitation. Weekend: 0.50 to 1.75 in. of rain changed to snow in western and northern areas, up to 3 in. Temperatures much colder by week's end, with highs in the 30's to near 40 and lows in the 20's to mid 30's.

NORTH CAROLINA: Temperatures near normal. Precipitation heaviest in the central coastal areas.

Soil moisture 24% short, 76% adequate. Days suitable for fieldwork: 5.0. Condition: Peanuts: 10% poor, 70% fair, 20% good. Soybeans: 22% poor, 65% fair, 13% good. Sweetpotatoes: 15% poor, 55% fair, 30% good. Phenological stages: Soybean leaf drop: 92%, 1982 94%, average 91%. Harvests: Corn for grain: 99%, 1982 100%, average 97%. Apples: 96%, 1982 100%, average 100%. Sorghum harvest: 90%, 1982 92%, average 87%. Sweetpotatoes: 94%, 1982 96%, average 99%. Peanuts dug: 88%, 1982 100%, average 100%. Peanuts threshed: 64%, 1982 98%, average 100%. Soybeans: 30%, 1982 31%, average 45%. Cotton: 91%, 1982 71%, average 77%. Major farm activities: Seeding small grains, soybean harvest, cotton harvest, sorghum harvest, combining of corn for grain, preparation of land for fall seeding, seeding cover crops, sweetpotato harvest, peanut digging and threshing, cutting Christmas trees and fire wood, and grading tobacco.

NORTH DAKOTA: Generally warmer than normal, near normal precipitation. Temperatures ranged 5.9° above normal northwest to 1.2° above normal southeast. Temperature extremes were 62° on the 6th to 10°, 11th. Precipitation ranged from 0.28 in. southwest to 0.07 in. northeast. At week's end, light snow occurred Statewide with depths ranging from a trace to 4 in.

Satisfactory weather allowed virtual completion of harvest on remaining fields. Fall tillage and fertilizer application also drawing to an end. Some problems with insects in stored grain. Lack of significant precipitation keeps outlook dry for many areas going into winter.

OHIO: Temperatures near normal. Highs in low 50's, lows to upper 20's. Soil temperatures 4 in. bare mid 40's. Precipitation on 10th and 11th 1.00 in. plus.

Harvest progress delayed by rain and snow. Corn grain quality fair to good; moisture content 21%. Emerged wheat good. Winter wheat planted 100%, 100% 1982, 100% average; emerged 95%, 1982 95%, average 90%. Soybeans harvested 98%, 100% 1982, 96% average. Corn harvested 85%, 95% 1982, 85% average. Days favorable 4.5. Pasture condition fair to good. Soil moisture 4% short, 57% adequate, 39% surplus.

OKLAHOMA: Temperatures averaged from normal southwest to 4° below normal east central. Rainfall ranged from 0.16 in. south central and 0.43 in. north central and east central.

Ample moisture provided good growing conditions for small grains and pasture. Wet fields thwarted further plantings of wheat and prevented row crop harvesting. Good pastures should forestall feeding of hay in most areas. Livestock were rated in good to fair condition. Wheat planted: 90%, 85% 1982, 95% average. Wheat emerged: 80%, 55% 1982, 80% average. Sorghum harvested: 55%, 65% 1982, 70% average. Cotton harvested: 15%, 5% 1982, 30% average.

OREGON: Another wet week with over 3.00 in. of precipitation at coast and almost 2.00 in. in Willamette Valley. Precipitation in rest of State averaged less than 1.00 in. Temperatures were above normal Statewide.

Winter wheat 96% seeded, the same as in 1982 and on average. About 90% of the crop emerged compared with 80% last year and an average of 83%. Very little fieldwork was accomplished during the week. Some cheatgrass spraying in eastern areas. In the Willamette Valley, herbicide application continuing on wheat and grass seed fields. Berry and fruit orchard maintenance ongoing. Some corn for grain remains to be harvested in Malheur County and the Hermiston area. Also in Malheur County, sugarbeet harvest about 90% complete. Late vegetable harvest as weather permits in west. Soil moisture supply adequate. Range and pasture condition good. Livestock also in good condition.

PENNSYLVANIA: Cool beginning and ending of week with mild temperatures midweek. State average was 1° above the normal of 42°. Heavy rainfall was recorded across the State on the 11th and 12th. Amounts ranged from 0.75 in. to just over 2.00 in. in the middle Susquehanna Valley. Very gusty winds prevailed over the State on the 12th with some minor damage reported.

Days suitable: 4.0. Moisture adequate to surplus. Activities: Plowing; making hay; planting cover crops; spreading fertilizer and lime; baling and chopping corn stalks; and

harvesting grain corn, soybeans, buckwheat, green chop and apples. Soybeans 71% harvested, last year 74%. Corn for grain 78% harvested; last year 69%; average 72%. Fall plowing virtually complete, 2 weeks later than last year. Harvest of fourth crop alfalfa virtually complete, last year 91%. Quality of hay made poor to fair. Feed from pastures mostly average.

PUERTO RICO: Island average rainfall 2.63 in. or 1.02 in. above normal. Highest weekly total 5.68 in. Highest 24-hour total 2.82 in. Temperature averaged about 80 to 78° on coasts and 76 to 73° Interior Divisions. Mean station temperature ranged from 81.3 to 68.0°. Extremes 92 and 60°.

SOUTH CAROLINA: Warming until 13th then below normal temperatures with frost or freezes inland. Frontal showers were greatest near coast.

Soil moisture short to adequate. Days for fieldwork: 5.1. Cotton 98% harvested ahead of 85% last year, 89% average. Soybeans 74% mature, slowed by cold, 87% last year, 86% average; 22% harvested, 27% last year, 38% average; condition poor to fair. Winter grazing planting, emergence benefitting from showers; 94% planted same as year ago, 89% average; emergence at 85%, 82 year ago, 77% average; fair to good condition same as for livestock, but pastures remain fair.

SOUTH DAKOTA: Average temperatures 4 below to 4° above normal. Extremes: 74 and 6°. Rain and wet snow was evident throughout most of week. All areas except extreme northwest and west central received some precipitation. Statewide, amounts were mostly in the 0.25 to 0.75 in. range. Greatest amount 1.30 in. southeast.

Winter wheat planted 100%, 1982 100%, average 100%. Winter wheat emerged 100%, 1982 100%, average 100%. Corn harvested 98%, 1982 53%, average 88%. Sorghum harvested 100%, 1982 74%, average 94%.

TENNESSEE: Temperatures averaged near normal ranging from 46 to 50°, extremes ranged from 27° in the east to 74° in the west. Some rain was reported on 7th in the west, but the State remained dry until showers broke out on 9th.

Days suitable for fieldwork: 3.9. Soil moisture 4% surplus, 74% adequate, 22% short. Corn harvested 89%, 1982 89%, average 84%. Cotton harvested 95%, 1982 95%, average 76%. Soybeans harvested 73%, 1982 85%, average 73%. Burley tobacco stripped 54%, 1982 62%, average 62%. Wheat sown 75%, 1982 82%, average 83%. Pastures 14% poor, 76% fair, 10% good. Livestock good.

TEXAS: Early week low brought clouds, widely scattered showers East Texas, Upper Coast. Late on 8th cool front entered Panhandle. Clearing skies, temperatures into 20's and 30's on 10th, 11th. Unseasonably cool readings over North Texas.

Crops: Fieldwork continued slow. Harvest of cotton, sorghum delayed by wet fields. Rains helpful to growth of small grains, causing planting delays. Cotton harvest made little progress. Wet conditions delayed harvest, may reduce quality of remaining cotton. Freezing temperatures Plains helped reduce foliage. Statewide condition 49% of normal compared with 60% a year ago. Currently 3% excellent; 5% good; 57% fair and 35% poor. Sorghum harvest hampered by wet conditions. Harvest should be wrapped up soon if conditions improve. Yields good but some fields High Plains hurt by early freeze.

Small grains making good growth. Early seeded fields progressing well, now providing some grazing. Planting progressed well. Soybean harvest delayed by wet fields. Yields, quality expected to be lower than normal. Early season dryness, late season wetness have combined to reduce expected production. Second crop rice harvest stalled by rain. Yields down, expected to be well below normal for second crop.

Cotton open bolls 98%, 1982 93%, 93% average; harvested 47%, 41%, 1982, 42% average. Sorghum harvested for grain 94%, 97% 1982, 95% average. Wheat planted all purposes 90%, 87% 1982, 91% average; emerged 69%, 65% 1982, 74% average. Peanuts harvested 69%, 72% 1982, 78% average. Soybeans harvested 67%, 69% 1982, 71% average. Sugarbeets harvested 72%, 73% 1982, 61% average. Peanuts harvested 30%, 33% 1982, 27% average. Sunflowers harvested 92%, 91% 1982, 86% average. Oats planted for all purposes 86%, 80% 1982, 87% average.

Commercial vegetables: Rio Grande Valley, harvest of cucumbers, peppers, cabbage, broccoli active. Citrus harvest picking up, oranges, grapefruit showing good quality. Coastal Bend, harvest of cucumbers continued. Fall planting wrapping up. East Texas, sweetpotato harvest slowing down, only light volumes being shipped. San Antonio-Winter Garden area, cucumber, carrot harvest gaining momentum. Trans-Pecos region, bell pepper, cabbage, chili harvest continued. Pecan harvest gaining momentum. Quality, yields expected to be only fair because of dry conditions.

Range and livestock: Showers helpful in promoting growth of grasses, small grains but overall range, pasture conditions remain poor. Grazing West Texas, Plains remains short. East, Central Texas, prospects for winter grazing better because of timely rains. Supplemental feeding continues to increase, some producers concerned over possible hay shortages. Despite lack of adequate grazing, livestock condition remains good.

UTAH: Precipitation generally light to moderate, except light Uinta Basin, moderate to heavy north central and northern mountains. Temperatures averaged 5° above normal, ranging 2 to 14° above.

Sorting, marketing of apples, onions, and potatoes in progress. Apple picking nearing completion. Potato and onion harvest also virtually complete. Some corn for grain still standing. Livestock continue in good condition.

VIRGINIA: Warming trend occurred first of week followed by widespread rains over State on the 10th and northern areas on the 13th. Rainfall amounts ranged from 0.50 in. in southwest to 1.50 to 2.00 in. in central and north. Temperatures warmed to 60's to around 70 by the 10th with morning lows on the 13th coolest so far this season--teens in the highlands, 20's elsewhere.

Topsoil moisture was rated 10% short, 84% adequate, 6% surplus. Days suitable for fieldwork were 4.4. Corn harvest was 88% complete, 89% last year and average. Preparation for seeding and seeding of cover crops active. Soybean harvest 38% complete, 66% last year, 61% average. Peanut digging 98% complete, 100% last year and average. Combining 93% complete, 100% last year, 99% average. Flue-cured tobacco marketing active. Burley stripping getting underway. Barley and oat seeding near normal and about complete. Wheat seeding about 1 to 2 weeks late.

WASHINGTON: Strong westerly flow in upper levels brought intense low level systems into State every other day during week. Air generally warm and very moist; as a result, precipitation amounts well above weekly normals on both sides of Cascades. Although total amounts from 1.00 to 5.00 in. recorded west of mountains, seasonal totals there still significantly below normals. Figures are completely different east of mountains where weekly amounts pushed most totals well above seasonal expectations.

Winter wheat planting being completed. Moisture conditions good and emerged fields look normal. No insect or disease problems reported. Cheatgrass problems affected a few areas Walla Walla County. Corn harvesting slowed by rains. Potato harvesting over. Christmas tree harvesting started and in full swing on west side. Post harvest orchard clean-up continues. Rodenticides and fertilizer continue to be applied. In western counties, raspberry canning and fall berry fieldwork progresses. Blueberry bushes being trimmed. Winter cauliflower in good condition. Most cattle off ranges and calves being weaned. Ranges and pastures in average condition for time of year. Winter wheat planted 100%, 100% 1982, 100% average; emerged 98%, 95% 1982, 95% average.

WEST VIRGINIA: Temperatures averaged from near normal to 2° below normal across the State. Precipitation also ranged from near normal to 1.16 in. above normal in the southwest. Largest amount was 2.58 in. at Charleston.

Soil moisture adequate to short. Days worked averaged 3.3. Main activities were: Corn harvesting and general maintenance. Corn: 100% mature; 88% harvested. Pasture in fair to poor condition.

WISCONSIN: Dry weather pattern ends. A low pressure system on 9th brought 1 to 6 in. of snow to northern areas. Temperatures started week in the 50's and 60's but dropped to 30's and teens by week's end. Highest temperature 64° at Wild Rose on 8th. Lowest reported was 0° at Harrison and Phillips on 12th.

Soil moisture Statewide 82% adequate, 18% surplus. Days suitable for fieldwork: 5.0. Corn harvesting 86% complete, 52% last year and 73% average. Soybean harvesting 94% complete, 81% last year, 88% average. Fall plowing 71% complete, ahead last year's progress of 29%, average 46%. Pasture condition 89% of normal.

WYOMING: Temperatures above normal. Precipitation above normal for first time this month.

Winter wheat mostly good condition. Some late planting continuing in northeast areas. Additional moisture will be needed for optimum development. Corn harvest continues as weather permits. Fall plowing active. Livestock mostly good condition, some supplemental feeding. Livestock producers continue to move stock to winter pastures, market livestock, pregnancy testing.

National Weather Summary (continued from front cover)

FRIDAY...Rain covered the West Coast States and moved across the Great Basin to the Rockies. Snow continued in parts of the northern Rockies, the central Rockies, and over the northern Plains. Snow also fell in the Great Lakes region and in parts of the northern Appalachians. Light to moderate rain again covered the Northeast. Temperatures in the teens and twenties covered the northern Plains.

SATURDAY...The first freeze of the season reached southward to northern Louisiana, central Mississippi and Alabama, and northwestern Georgia. Strong northerly winds ushered colder air into the eastern United States. Snow fell early in the day from the eastern portion of the northern Plains to the western Great Lakes, and in the Northeast from central Pennsylvania northward through the mountains. Showers, with snow at higher elevations, covered much of the West from southern California to Washington and eastward to the northern and central Rockies.

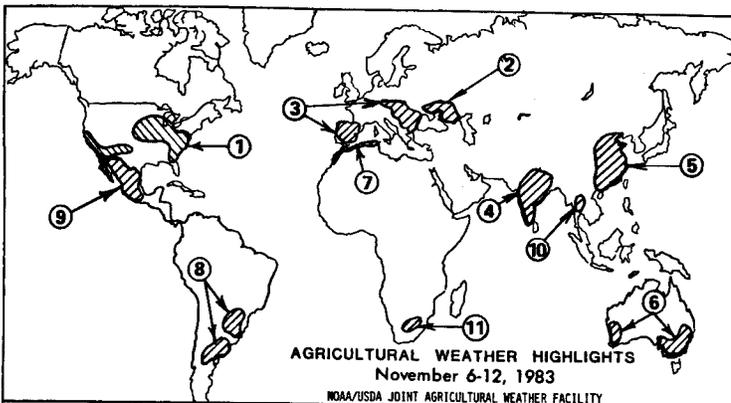
(continued from p. 8)

and increased along the southern coast. Cauliflower harvesting was heavy along the central coast and celery cutting neared peak volume. Lettuce harvesting declined in central areas but started in the desert area. Fresh market tomato picking decreased in central areas but moderate supplies were picked along the south coast.

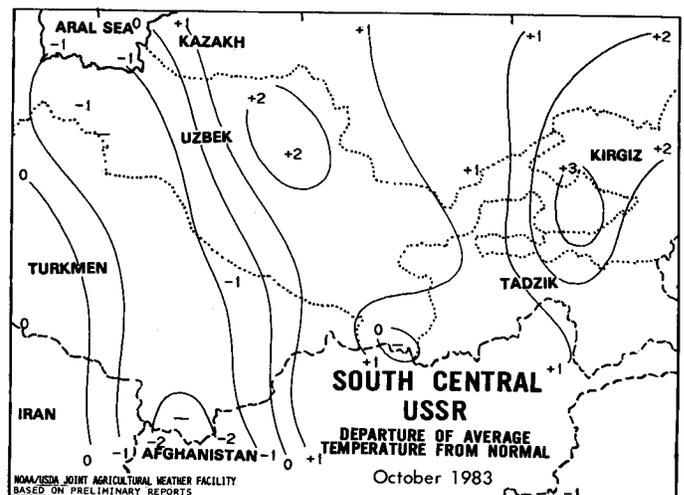
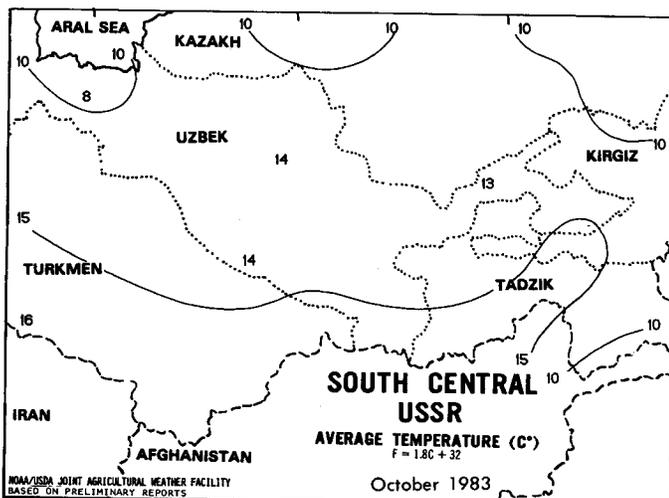
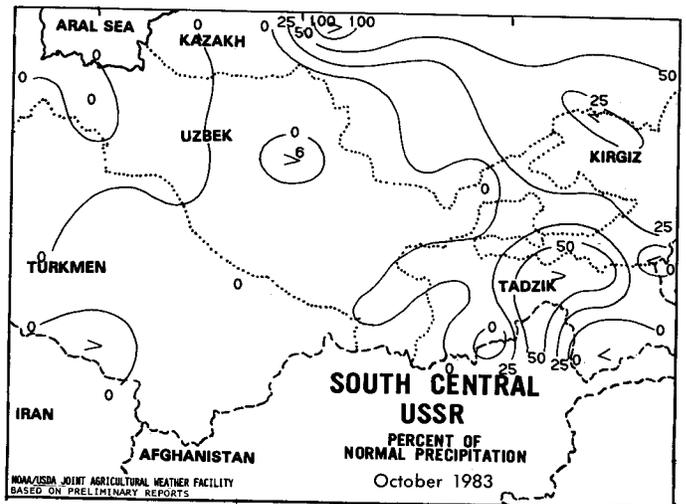
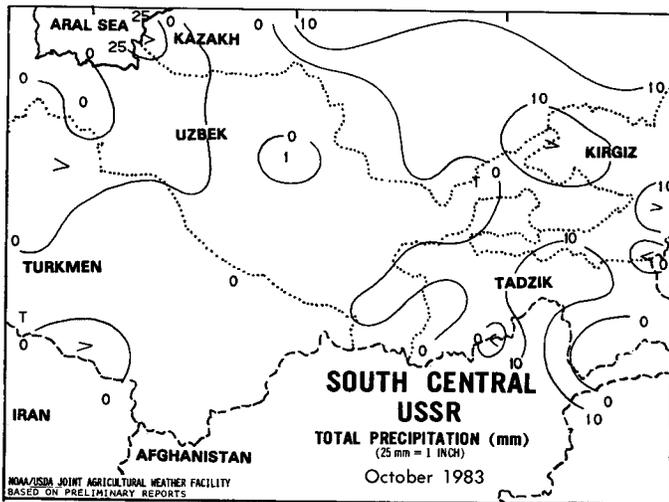
PASTURES AND LIVESTOCK: Pastures and ranges were generally in fair to good condition. Increased pasture growth helped, but supplemental feeding continued active. Grazing in west Texas and the Plains remains short, while timely showers improved prospects elsewhere. Despite the lack of grazing in some areas, livestock were in fair to good condition.

International Weather and Crop Summary

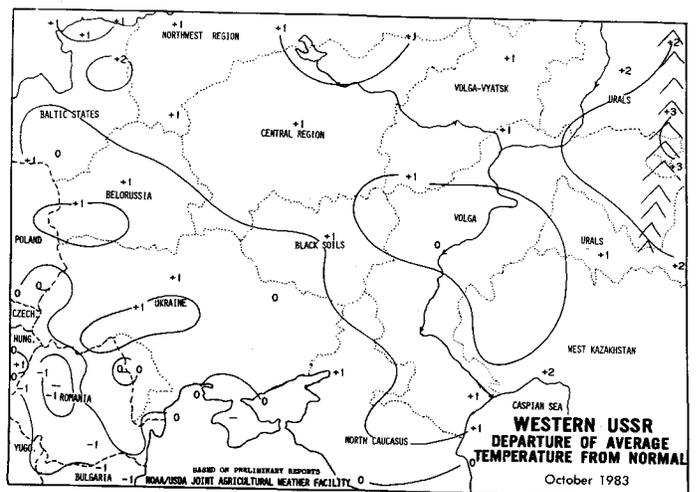
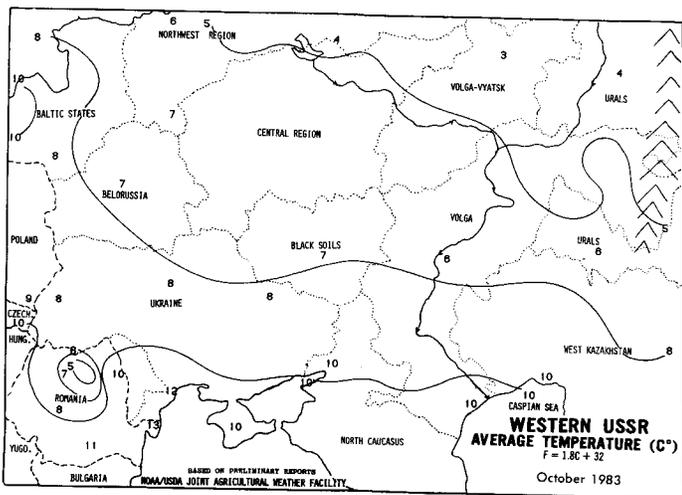
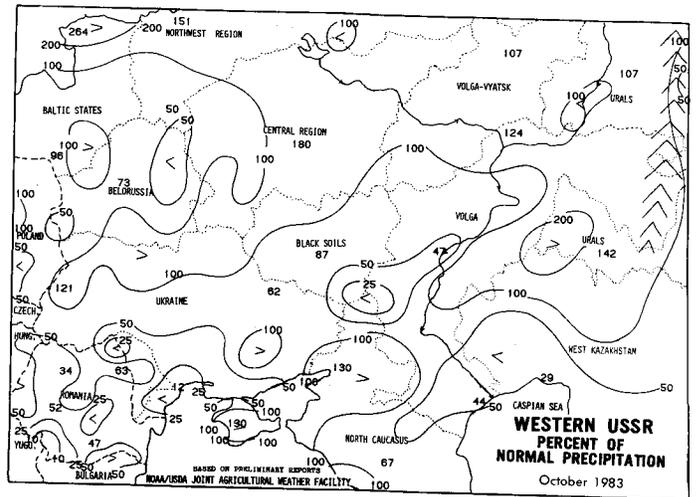
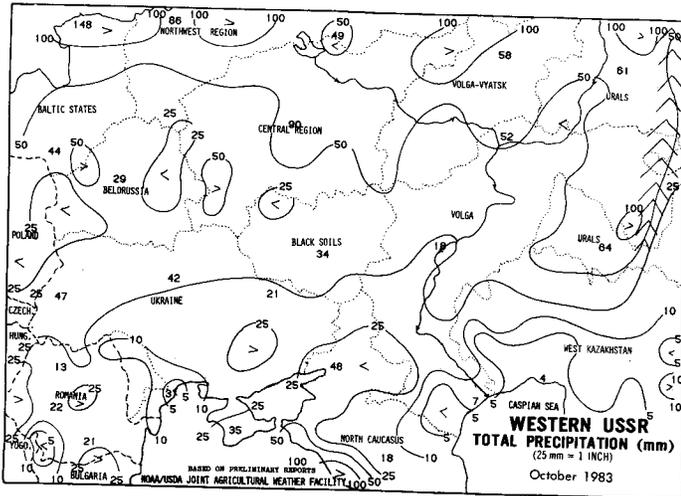
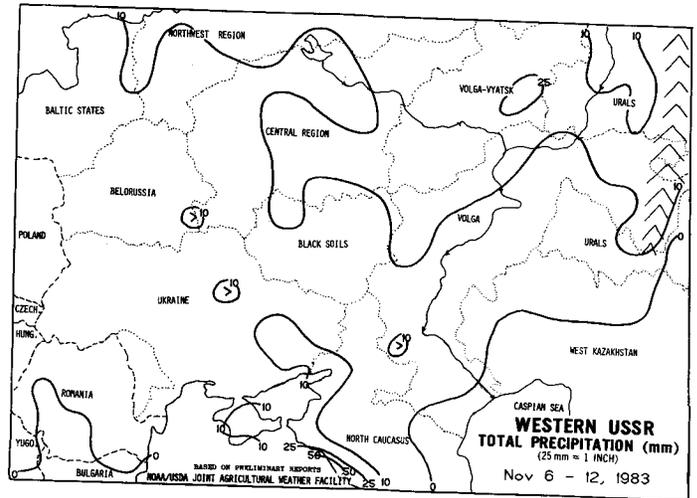
November 6 to 12



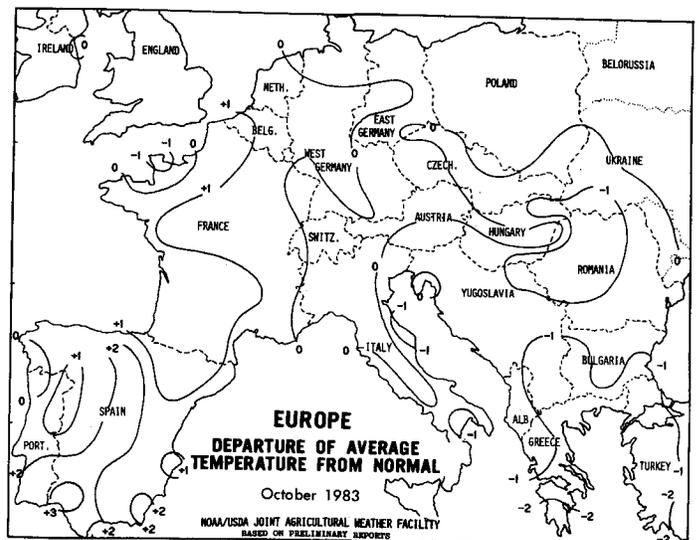
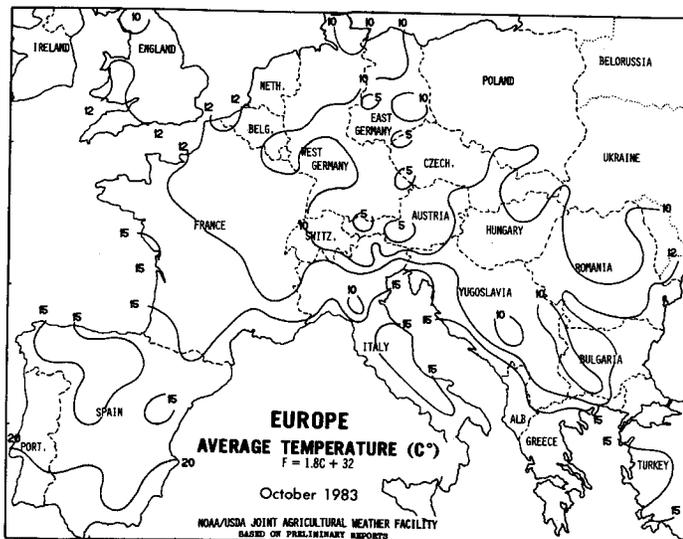
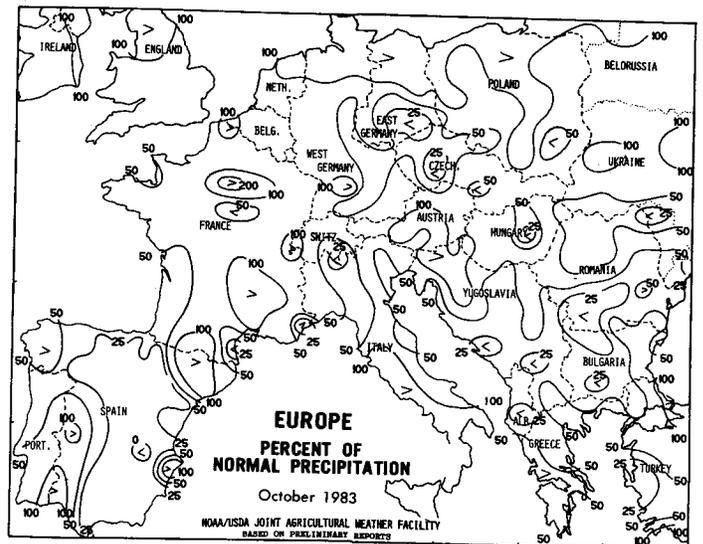
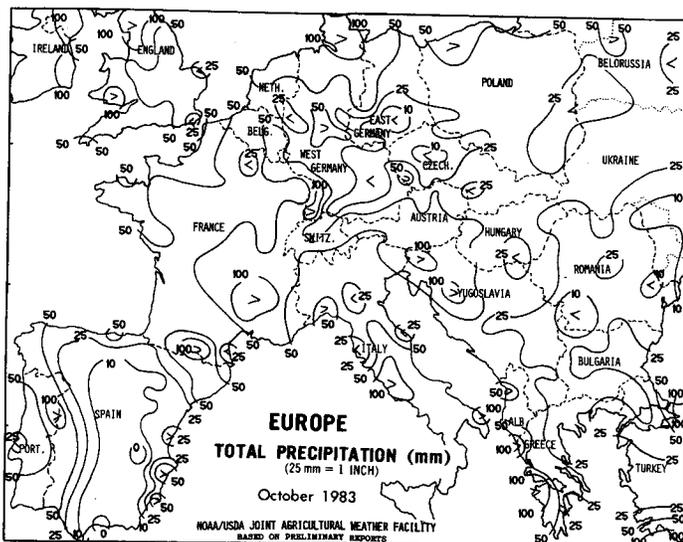
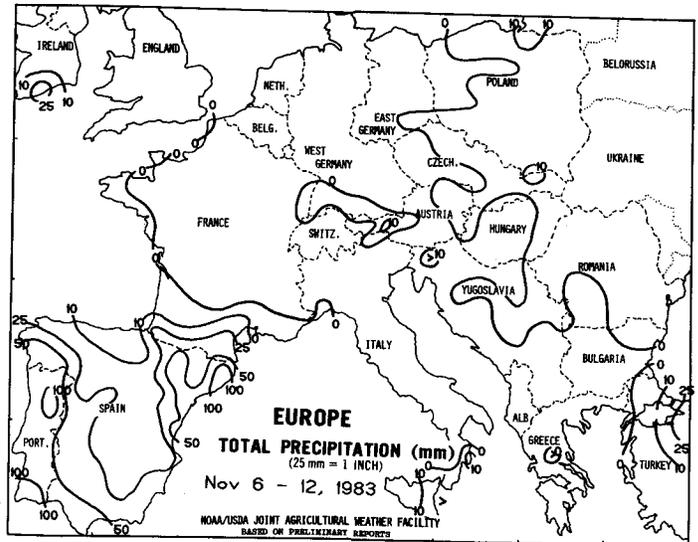
1. UNITED STATES ... Rains, snow, and wet fields delay harvesting over most of the Corn Belt and the coastal Southeast. The additional moisture aids winter grains. Frost and light freeze as far south as the northern Gulf States hurts tender vegetation. Favorable harvesting weather covers the Delta and the Southwest while heavy showers slow California field activities.
2. WESTERN USSR ... Light showers continue to favor winter wheat growth in the south.
3. EUROPE ... Significant rains increase soil moisture and reservoir levels in the Iberian Peninsula. Unfavorable dryness continues to stress winter grains in eastern Europe.
4. SOUTH ASIA ... Mostly dry weather covers the region favoring maturing summer crops.
5. EASTERN ASIA ... Warm weather and good moisture supplies favor winter wheat establishment. Moderate showers in the south caused no damage to rice.
6. AUSTRALIA ... Showers aid grain filling in previously dry western crop areas while mostly dry weather aids ripening in the east.
7. NORTHWESTERN AFRICA ... Widespread showers increase soil moisture needed for winter grain planting in most crop areas.
8. SOUTH AMERICA ... Wet weather covers most crop areas of Argentina and Brazil providing favorable moisture for emergence and early growth of summer crops. Some temporary planting delays are likely because of locally heavy showers in Argentina.
9. MEXICO ... Rains hamper harvesting in parts of the southern Plateau corn belt. Mostly sunny weather elsewhere favors field activities.
10. SOUTHEAST ASIA ... Moderate to heavy rain in Thailand slows rice maturation but causes little damage.
11. SOUTH AFRICA ... Showers continue to benefit early growth in the eastern corn region. Dry conditions hamper planting in the west.



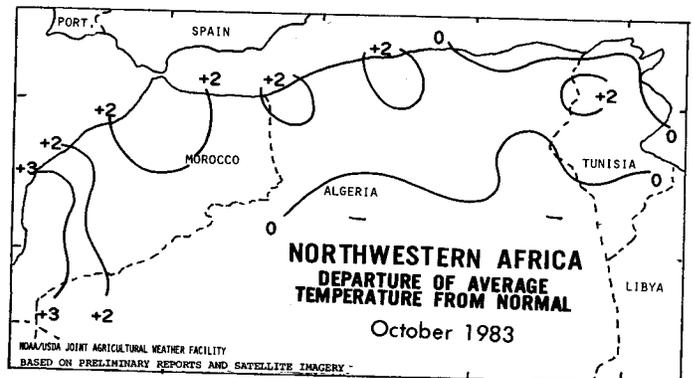
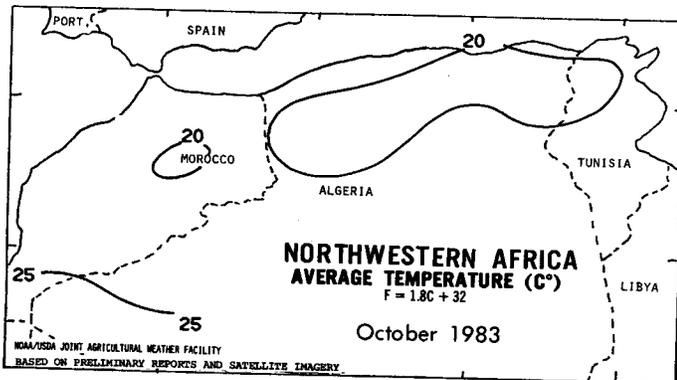
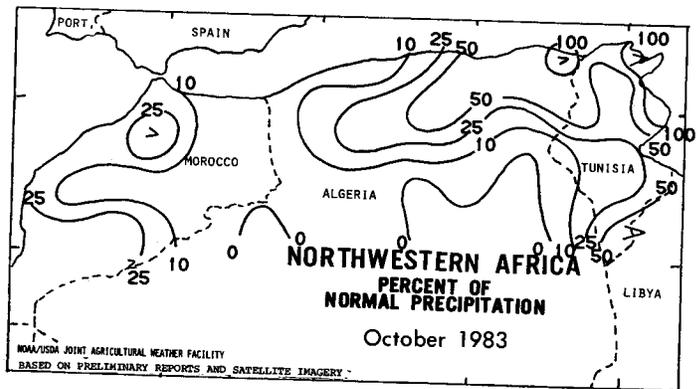
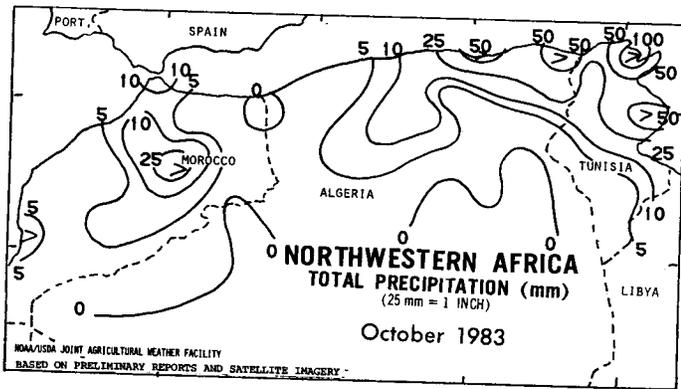
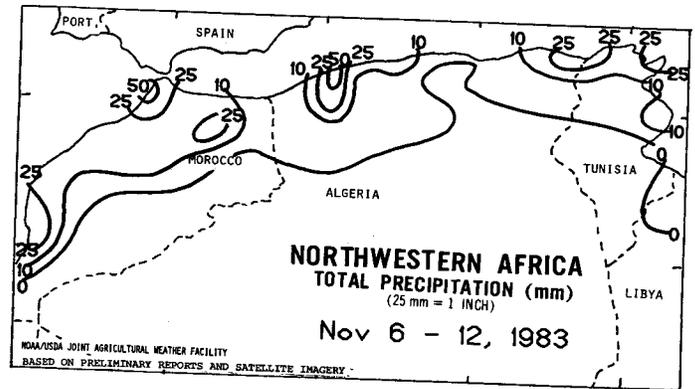
WESTERN USSR...Light showers benefited winter wheat, which continued to add new growth, in southern growing areas. In October, warm, dry weather covered the south during most of the month, allowing completion of the grain harvest. Showers late in the month across the driest areas in the south relieved unfavorable dryness, aiding emergence and helped early growth. However, dry pockets still exist in parts of the southern and eastern Ukraine as well as the North Caucasus. In the north, rain and snow showers covered winter rye which is dormant. Warmer than normal weather during October caused rye to enter dormancy 2 weeks later than usual. Weekly temperatures were above normal over most crop areas, but a cold arctic air mass moved southward into the region by week's end. In south-central USSR, warm, dry weather in October aided the cotton harvest, which continued under dry conditions this week.



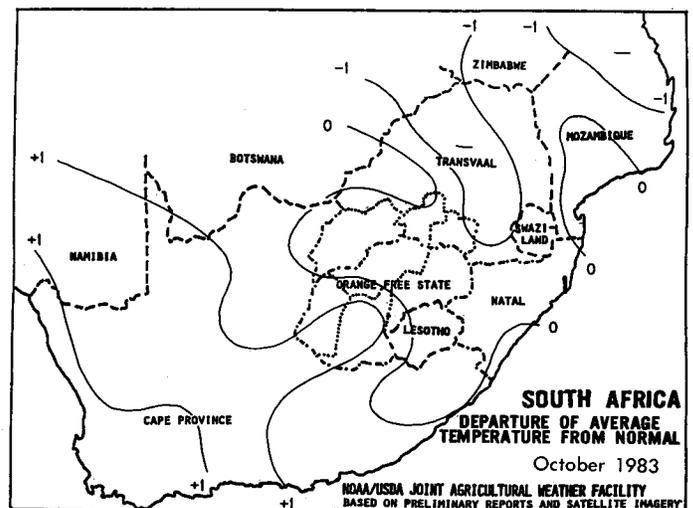
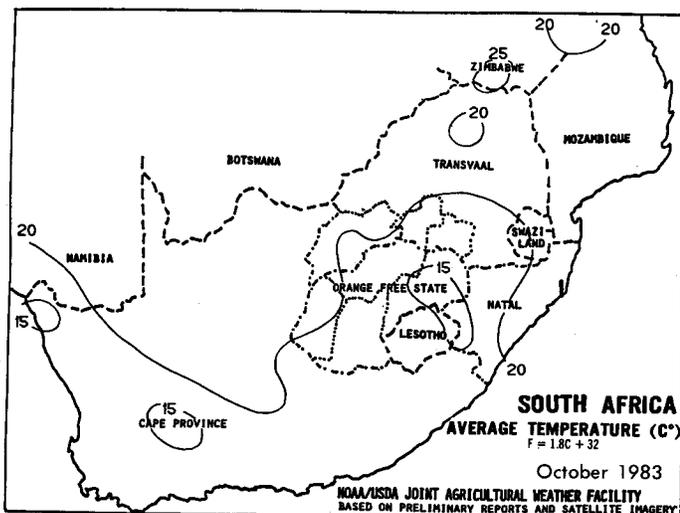
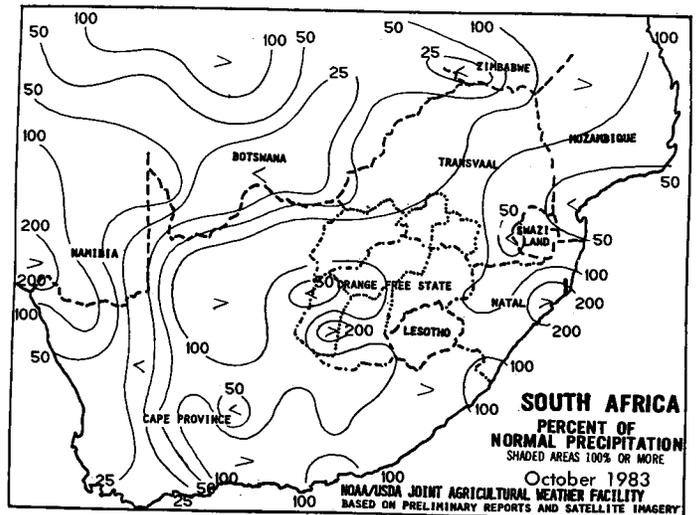
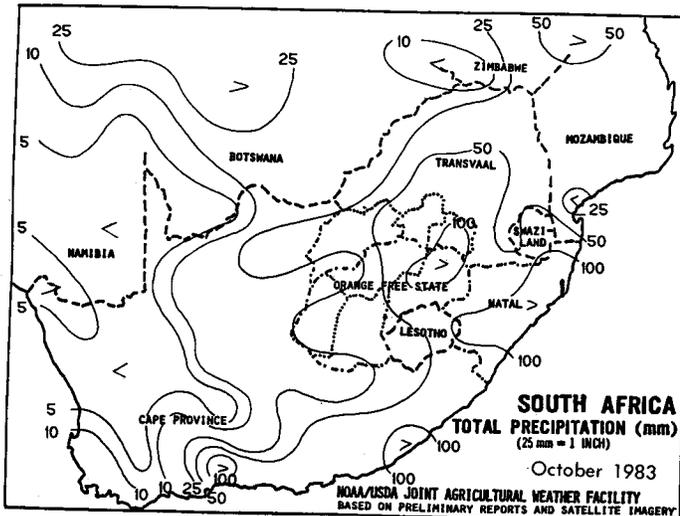
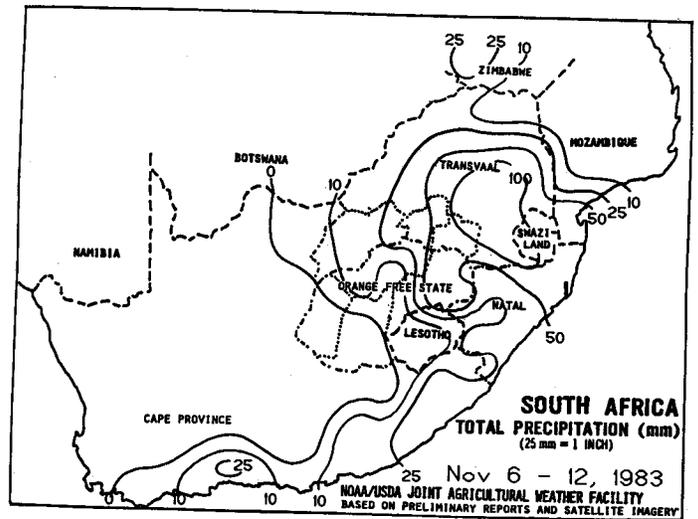
EUROPE...Dry weather continued to cover most of the region, allowing final harvest activities to progress with few delays. In October, periods of rain followed by sunshine provided adequate topsoil moisture for winter grain planting in the west and caused only minor harvest delays over the entire region. Well-below normal precipitation in eastern Europe since September has created poor conditions for emergence and early winter grain growth. Uneven emergence has likely occurred in many areas. Rains began in the Iberian peninsula during October and precipitation amounts were heaviest of the season this week. Rainfall amounts ranged from 50 to 100 mm in Portugal and 25 to 50 mm in Spain. Localized flooding is likely, but overall, the rainfall increased soil moisture as well as reservoir levels.

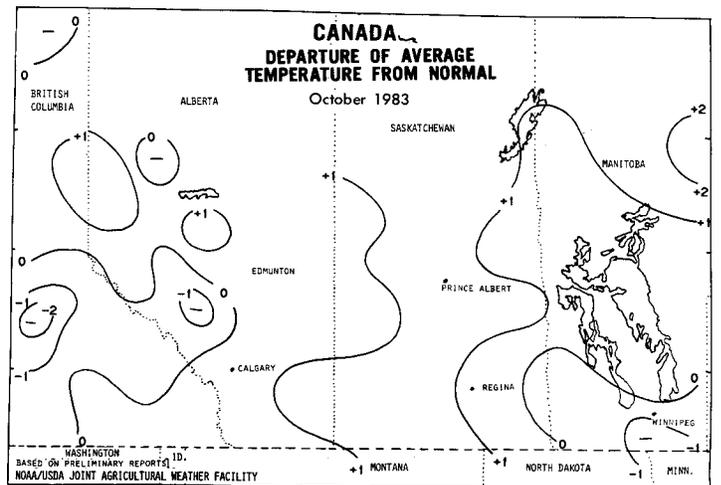
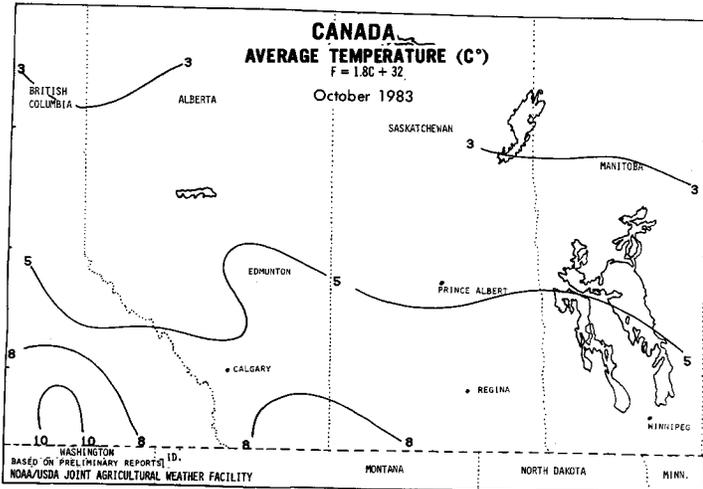
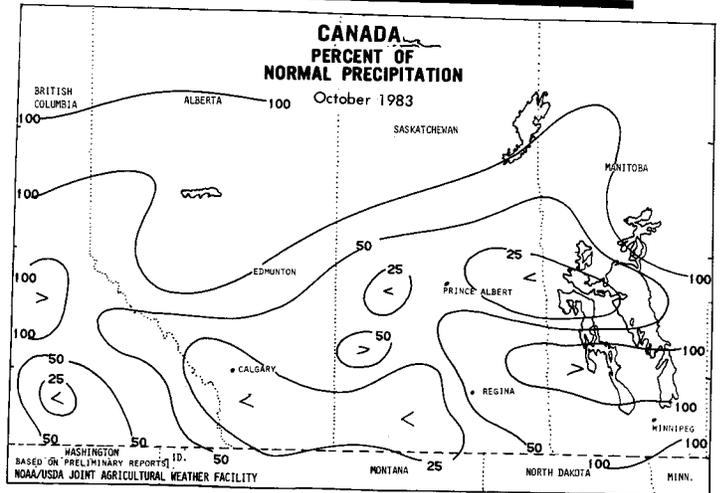
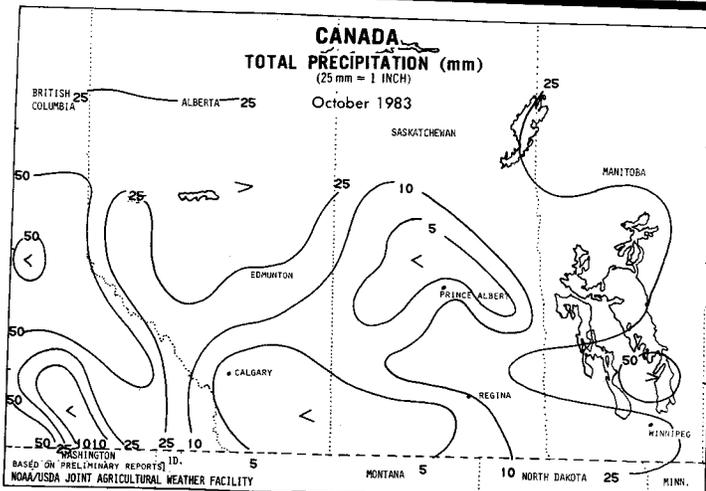
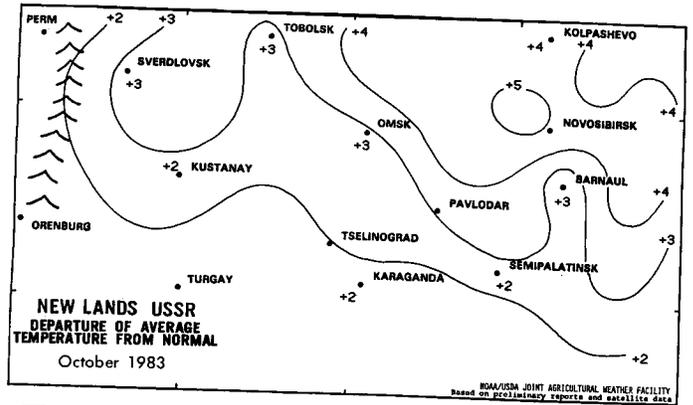
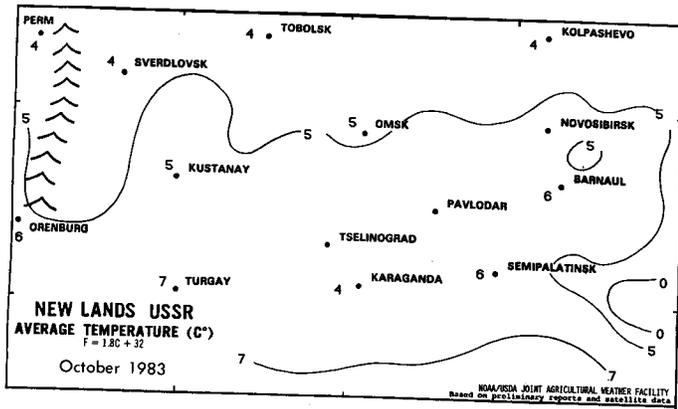
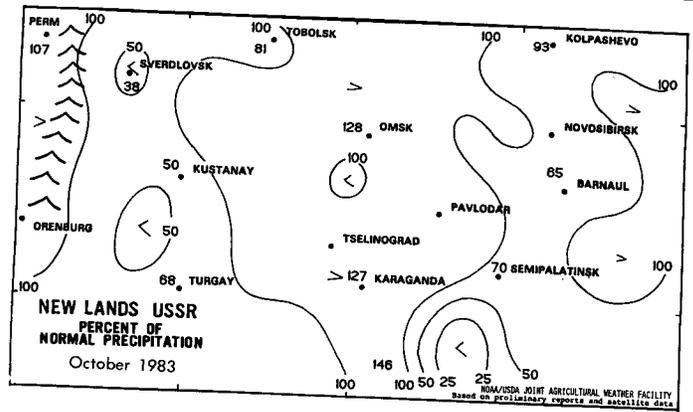
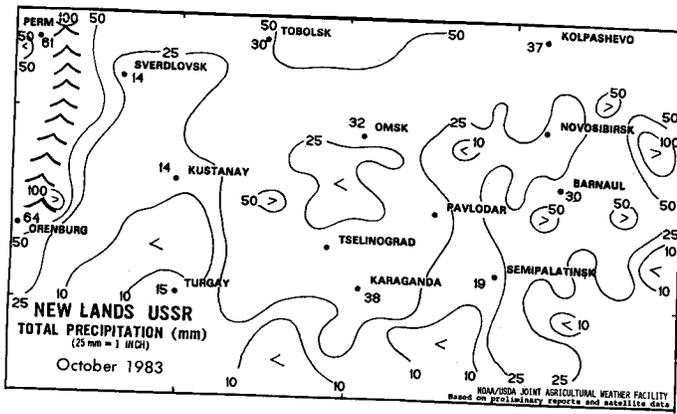


NORTHWESTERN AFRICA...Widespread beneficial showers covered most winter grain areas, with rainfall amounts ranging from 10-25 mm. The recent rains in Morocco and western Algeria increased topsoil moisture and will likely promote winter grain planting. Crop areas in northeastern Algeria and northern Tunisia received some showers in October and winter grain planting should be underway in these areas. Timely rains will be needed in all crop areas during the growing season as subsoil moisture is limited.

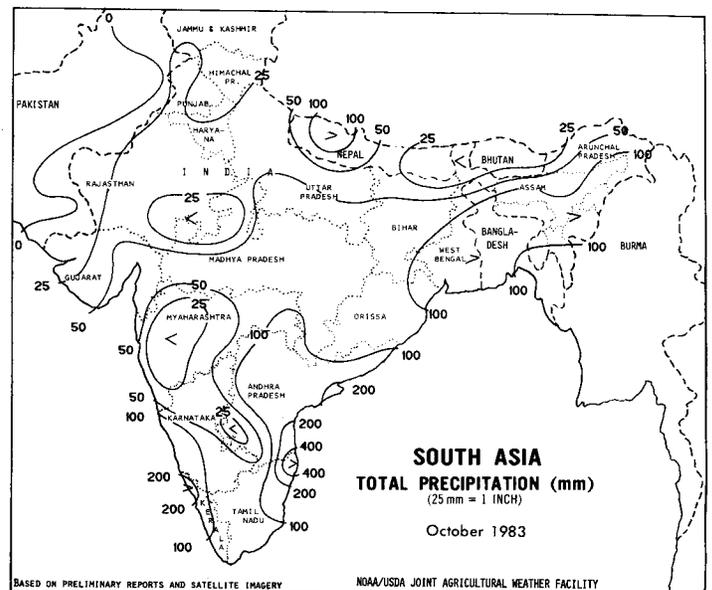
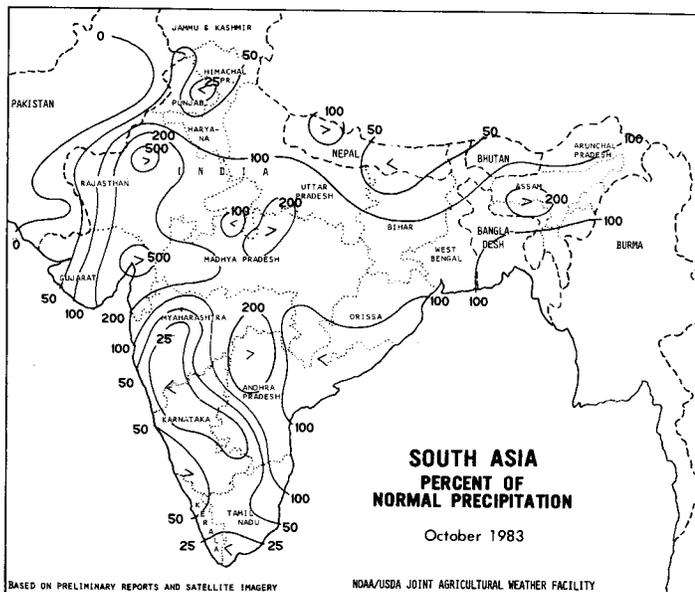
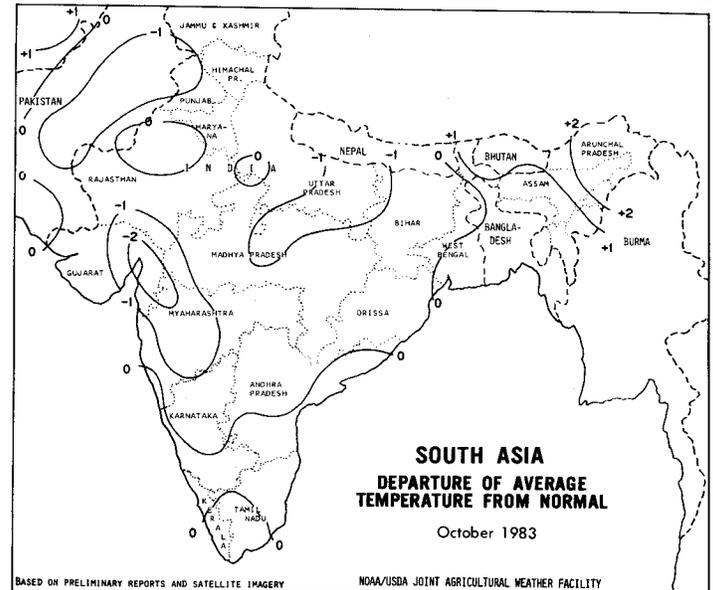
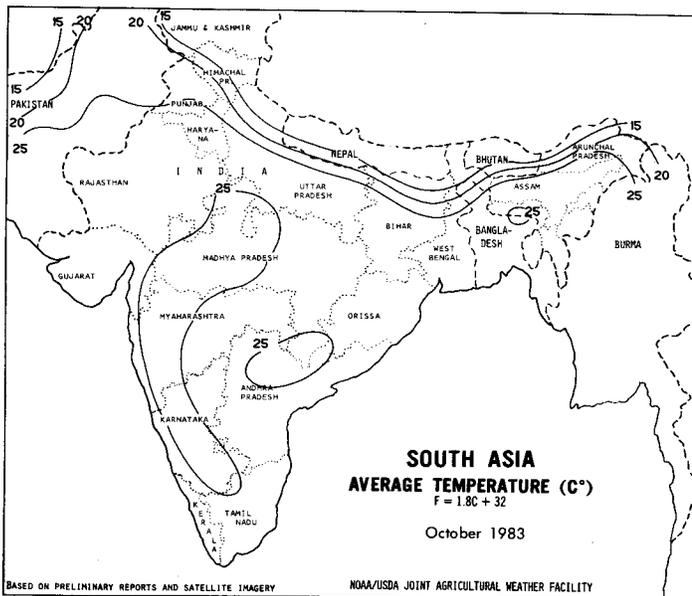
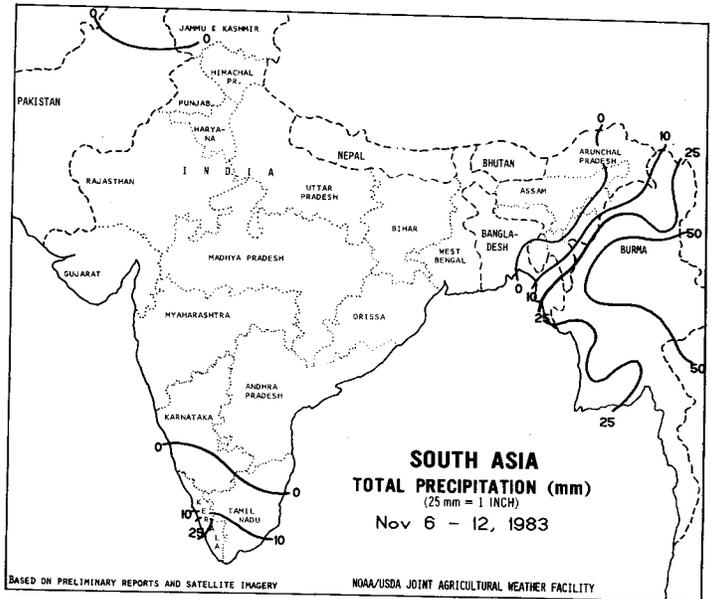


SOUTH AFRICA... Moderate showers fell in eastern and coastal areas during week. Total precipitation of 50 to over 100 mm accumulated in north-eastern South Africa and extended into the eastern Maize Triangle. The moisture continued to benefit planting and early growth in this area. However, the western and southern region remained relatively dry, hampering planting progress. During October, precipitation was above normal in most of the eastern Maize Triangle, while below-normal rains occurred in a large portion of the western region. Temperatures were near normal in the east, and slightly above normal in the southwestern Maize Triangle.

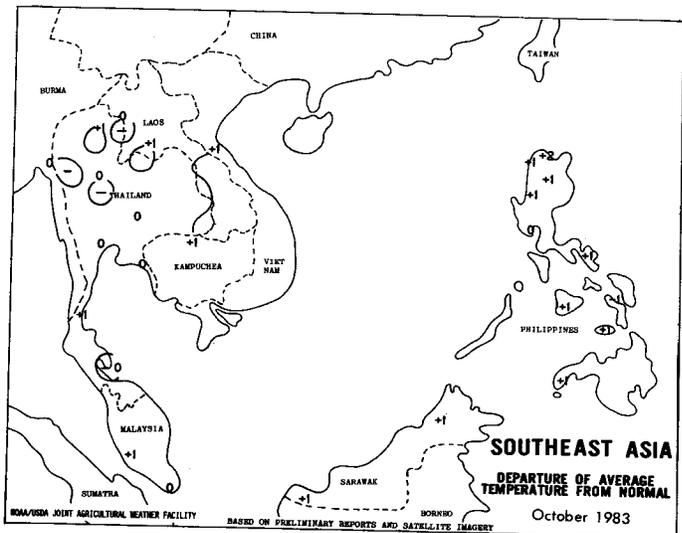
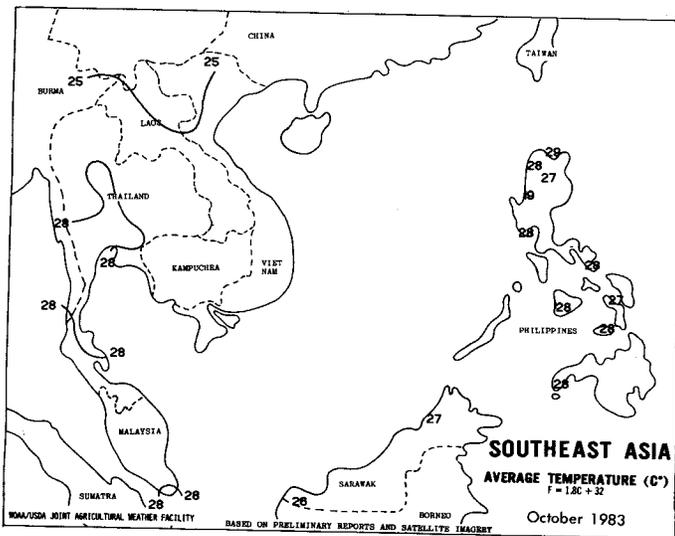
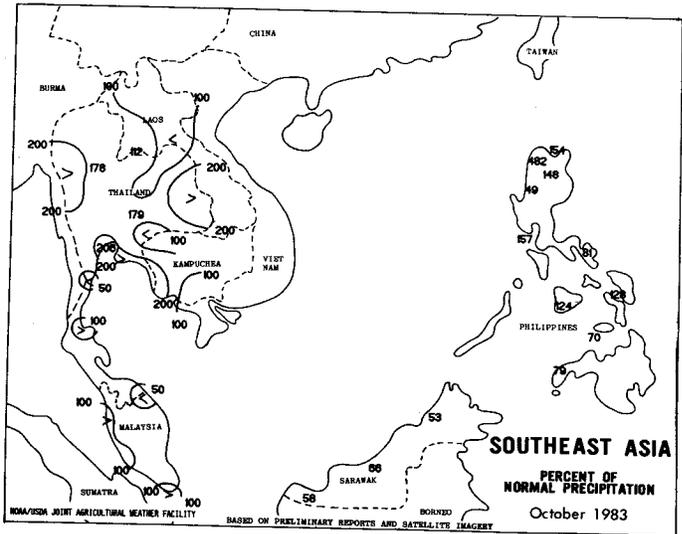
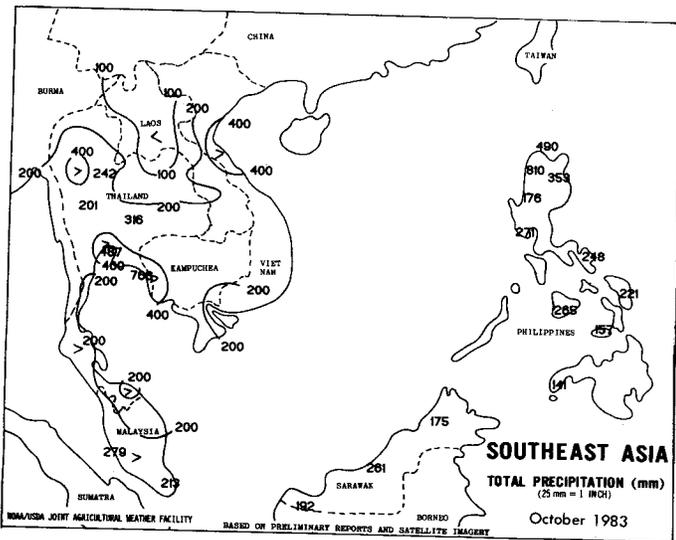
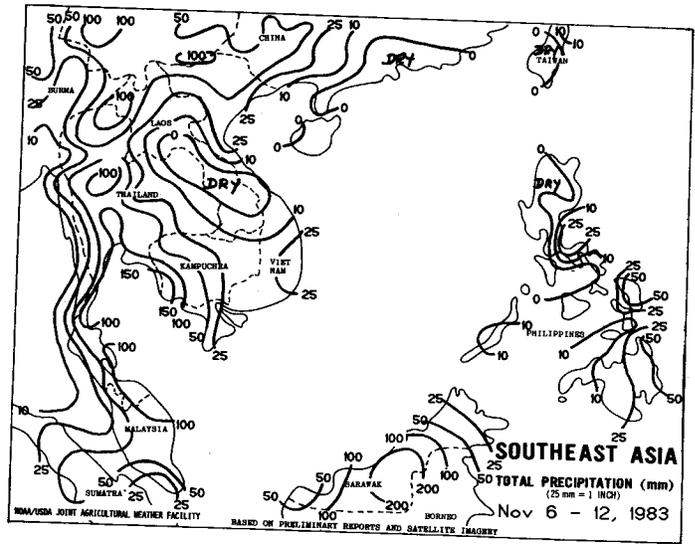




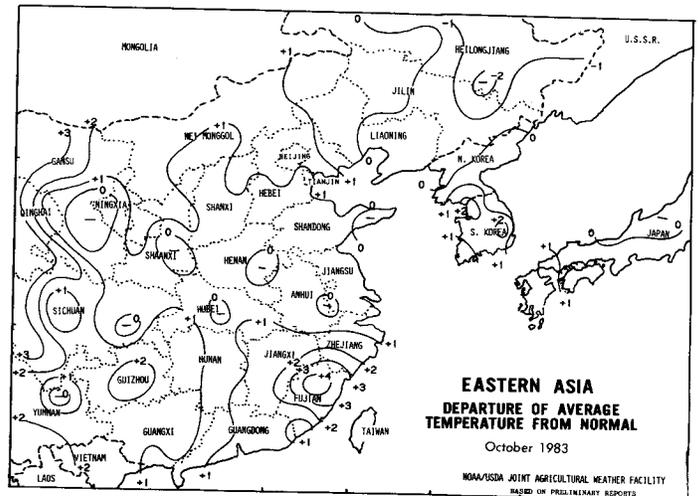
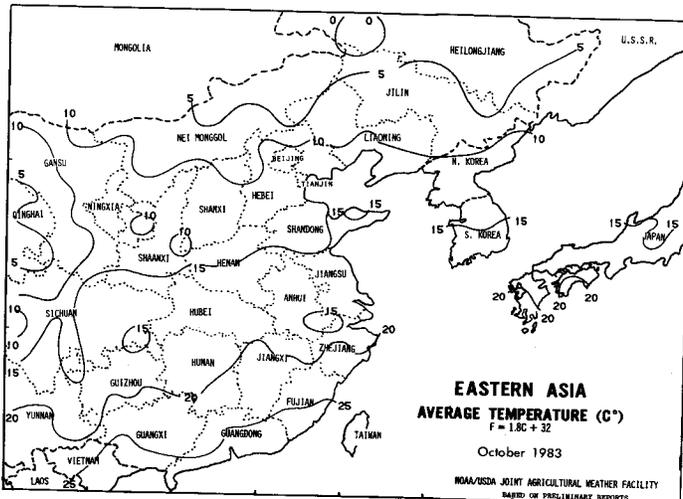
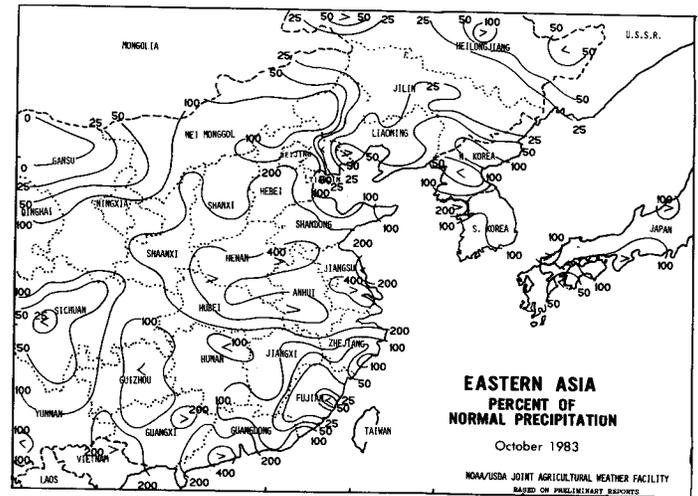
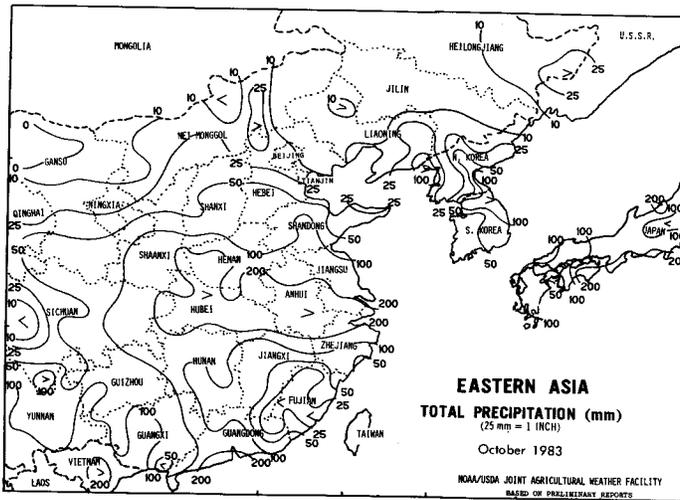
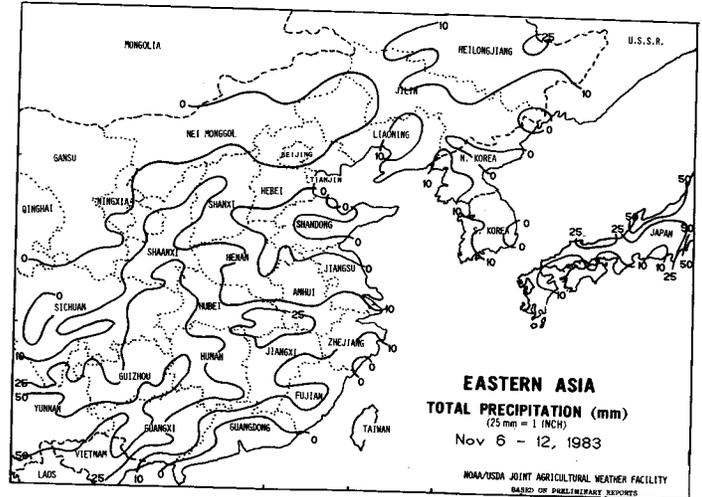
SOUTH ASIA...Very little or no rain fell in India this week. The dry weather was favorable for maturing rice, cotton, and groundnuts. Temperatures were below normal in most of India but still warm enough for good early growth of winter wheat in the north. Light rain in southern peninsula India aided late-planted crops. October precipitation was near normal in most of the winter rice region, except for southern Orissa and eastern Andhra Pradesh where accumulations were slightly below normal. Above-normal October rains in the wheat region, excluding parts of Punjab and Uttar Pradesh, have created good growing conditions.



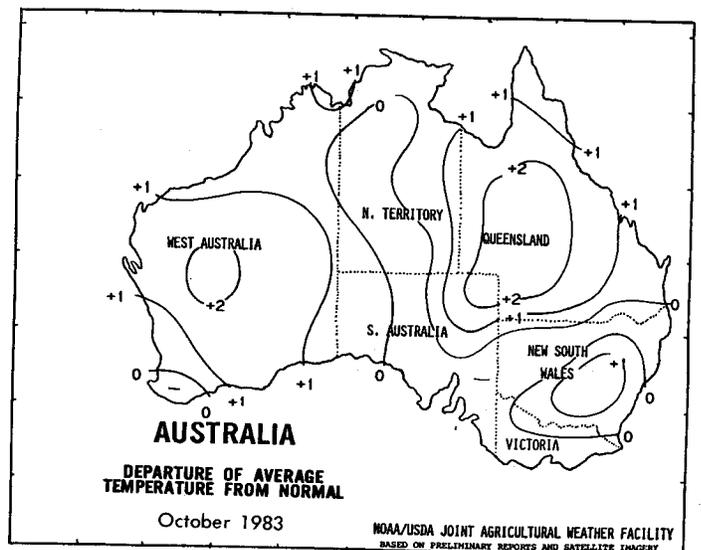
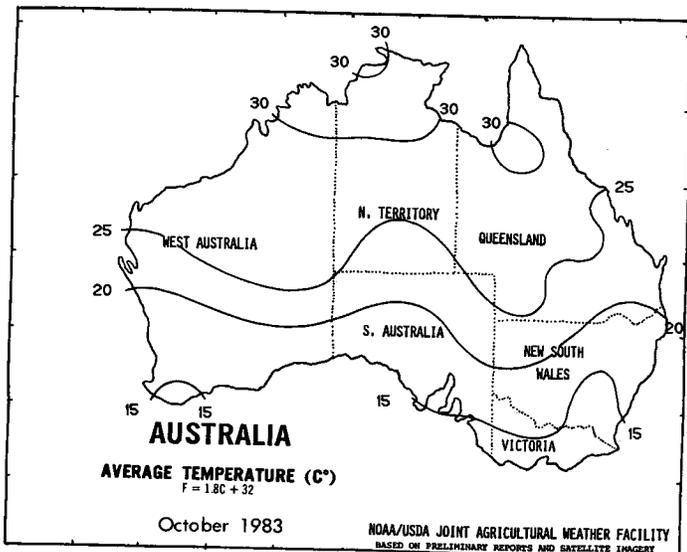
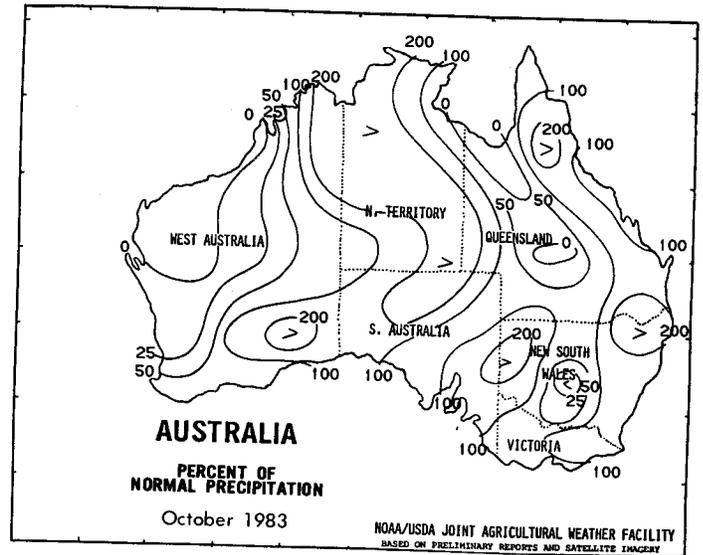
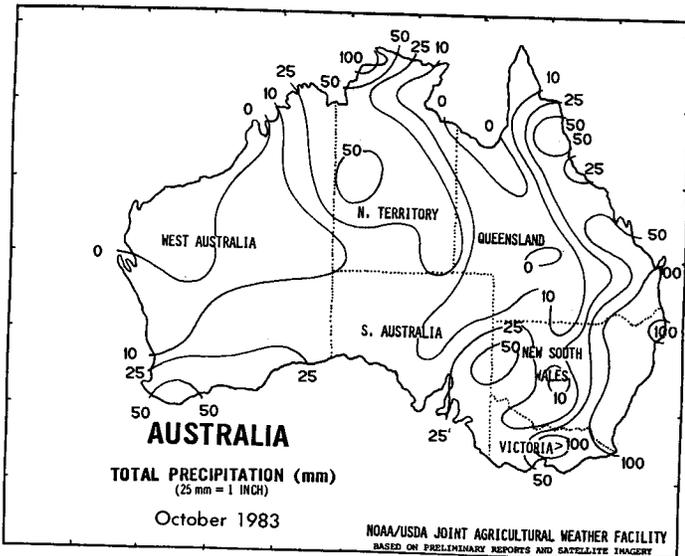
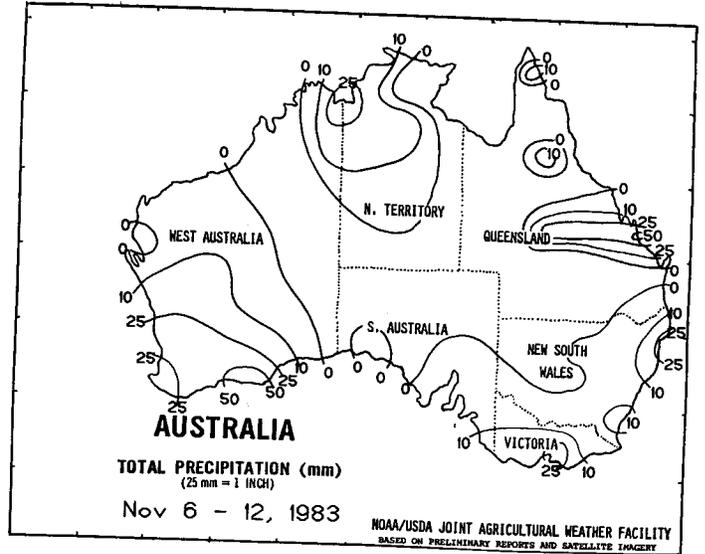
SOUTHEAST ASIA... Moderate to heavy rain, associated with a tropical storm that developed in the Bay of Bengal, fell in Thailand during the latter part of the week. The heaviest precipitation stretched from south-central to northern Thailand. Some localized damage to maturing rice was possible from the heaviest rainfall accumulations of 200 mm in the south. Mostly dry weather covered a large portion of southern Laos and central Vietnam. Nearly all of Thailand received above-normal precipitation during October, favoring late planted rice in the filling stage but slowed maturing rice. The northern Philippines were mostly dry while moderate rains fell in the south. October precipitation was near normal, favoring rice in the filling stage.



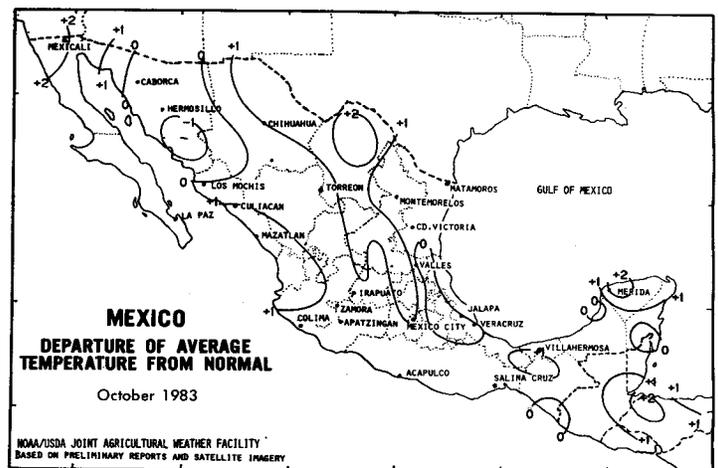
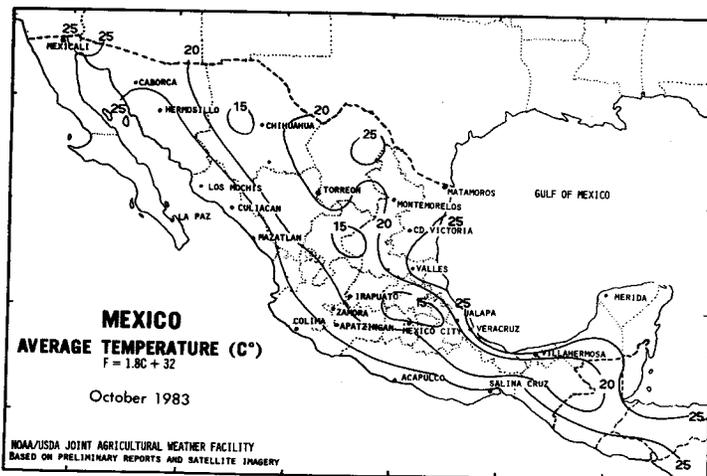
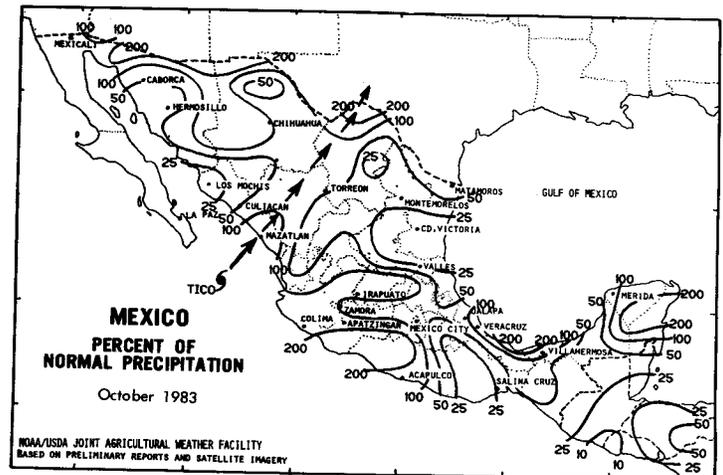
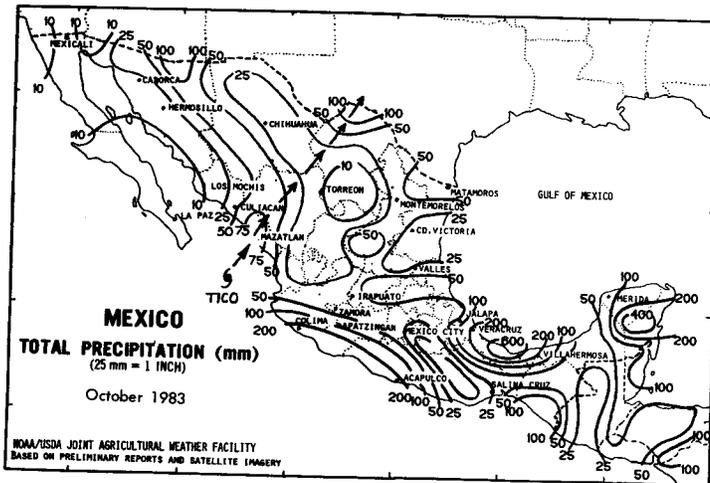
EASTERN ASIA...Light to moderate rain covered most of southern China this week. Maturing rice crops likely were not damaged by the moisture, and Guangdong, the main late double-cropped rice province, was mostly dry. Very light showers in parts of the winter wheat region added to the existing plentiful moisture supply. Temperatures remain relatively warm, favoring early growth and establishment of the wheat crop. During October, very heavy rains caused some flooding in central China and caused problems for harvesting cotton, corn, and soybeans. In the past few weeks, mostly dry weather has allowed harvesting to progress.



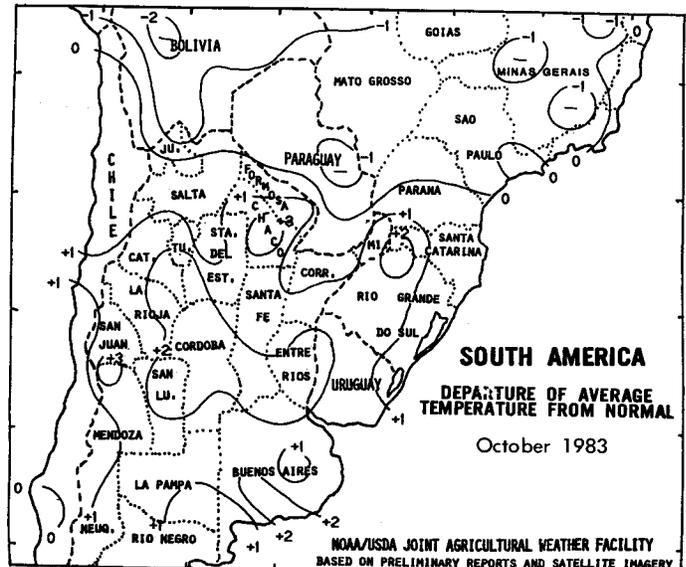
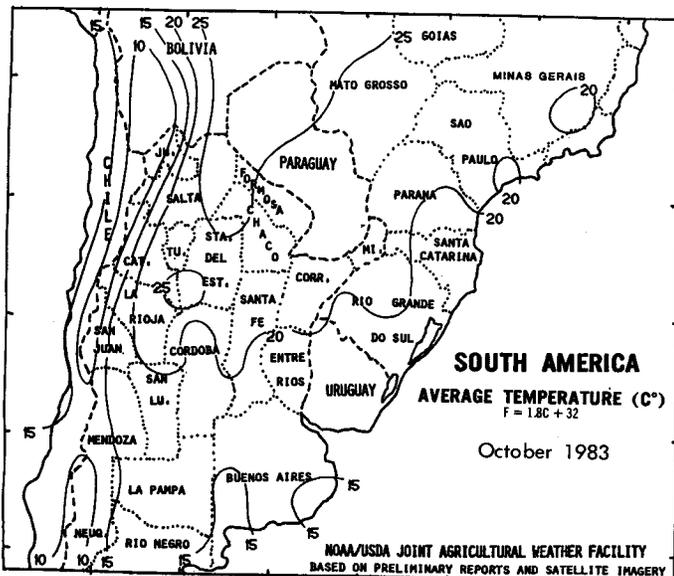
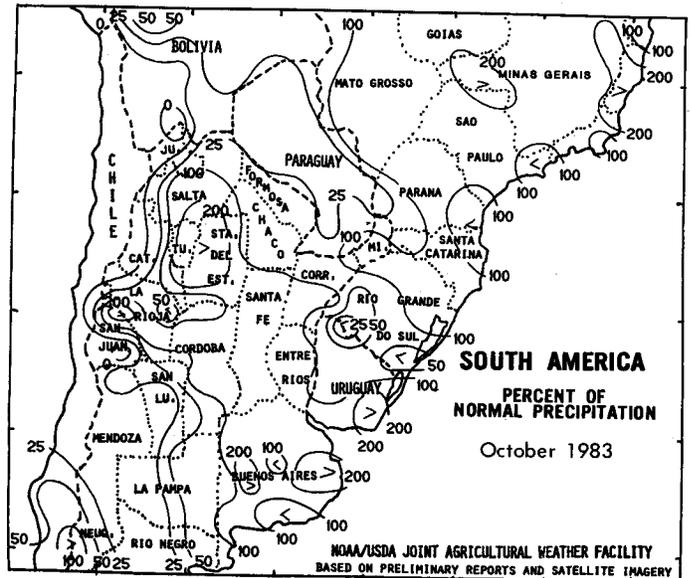
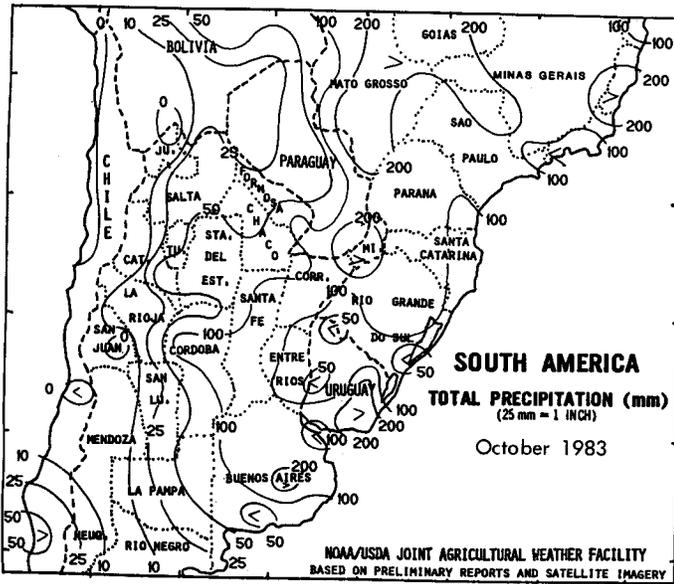
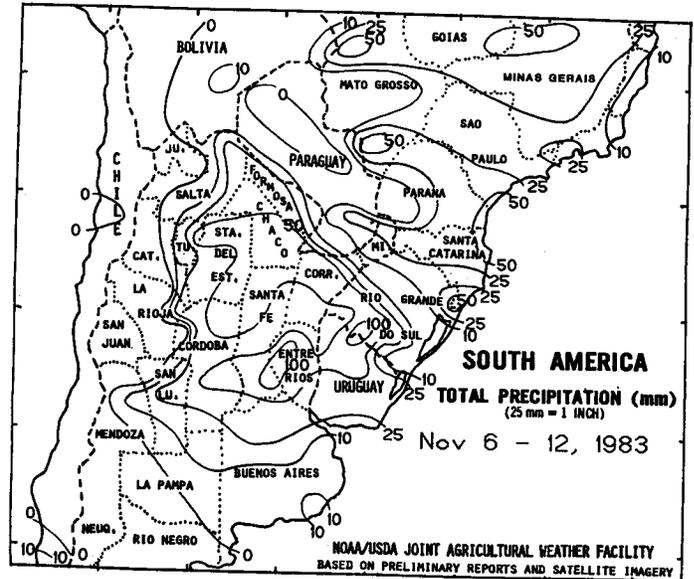
AUSTRALIA... Substantial rain (between 10-25 mm) fell over some wheat areas of Western Australia, where below-average rainfall occurred during October. In fact, northern portions of the western wheat area received less than 10 mm for the entire month. Australia's wheat crop is mostly in the grain-filling stage except in northern wheat areas, including Queensland and northern New South Wales, where harvesting is underway. Mostly dry weather during the week aided crop ripening in the east and accelerated grain filling in the south. October rainfall was mostly above average throughout these areas, but a narrow band of below-average rain covered south-central wheat areas of New South Wales. In general, weather conditions have been favorable for crop development, except in the west where persistent dryness, until this week, hampered grain filling. Western Australia normally produces about 30 percent of the total wheat crop.



MEXICO...Scattered moderate showers over the northeastern part of the southern Plateau corn belt and the state of Veracruz interfered with harvesting. Other major agricultural areas generally had sunny, dry, and warm weather which was ideal for field activities. The rainy season virtually ended over the northwestern mountain watersheds. October was drier than usual over most of the Nation, especially over the upper west coast farming districts. However, rainfall was heavy as Hurricane Tico entered the coast around Mazatlan. Rainfall rapidly decreased inland and was very light across the central Plateau. Rains increased as Tico's remains approached the Texas border near Del Rio and caused localized flooding.



SOUTH AMERICA... Wet weather covered nearly all crop areas of Argentina and Brazil during the week, producing locally heavy rain (in excess of 50 mm) in Argentina's corn and sorghum areas. Adequate to abundant moisture is available for emergence and early growth of coarse grains, soybeans, and cotton as well as for the grain-filling period of wheat. In Argentina, favorable weather during October boosted wheat yield estimates and has favored early season yield prospects for coarse grains. Soybean planting is about 30 percent complete in Argentina. In Brazil, soybean planting has progressed with abundant topsoil moisture, as frequent showers covered the region during October and early November. Some planting interruptions have occurred, but, in general, the crop is off to a good start. Planting is normally completed by early December in most areas.



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