

WEEKLY WEATHER AND CROP BULLETIN

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

U.S. DEPARTMENT OF AGRICULTURE
Economics and Statistics Service
World Food and Agricultural Outlook and Situation Board

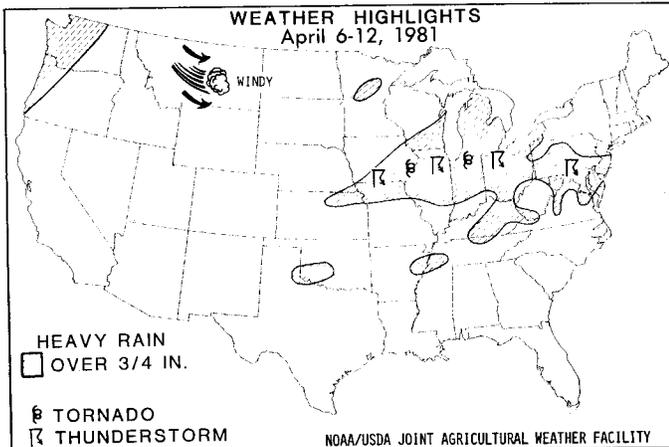
April 14, 1981

Washington, D.C.

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National Weather Summary

APRIL 6-12, 1981



HIGHLIGHTS: Drought worsened in many parts of the Nation in spite of some very welcome showers. The mid-Atlantic States got rain and showers but not in the amounts normally experienced from spring rains. Some water requirements were satisfied but others are still short. Helpful showers covered most of the Midwest but more rain is needed.

A cold front moved slowly through the Plains to the middle Mississippi River Valley, Ohio Valley, and through New England. Severe thunderstorms, accompanied by high wind and hail formed from northeastern Kansas to central Wisconsin and moved to a line from Oklahoma to southern Michigan. Tornadoes ripped through eastern Iowa to northern Indiana.

MONDAY...A cold front moving across the Plains produced little precipitation but sharply lowered temperatures. Strong northwesterly winds blew dust across Montana and temperatures dropped to the forties--20 degrees colder than the day before--while strong southerly winds over the central Plains produced temperatures in the seventies--20 degrees warmer than the previous day.

TUESDAY...Strong and gusty southerly winds ahead of the slow-moving cold front prevailed from the southern Plains to the Great Lakes. The front triggered showers and thunderstorms from eastern Wisconsin to northeastern Colorado. Light showers fell over northern Mississippi and Alabama, and in the Pacific Northwest. Temperatures were unusually warm ahead of the cold front but quite cool behind it.

WEDNESDAY...Thunderstorms--some severe--developed from Oklahoma to Wisconsin and spread eastward to Tennessee and Michigan. Widely scattered showers also developed over the middle and northern Atlantic coast region. Strong and gusty southerly winds continued from Texas through the Ohio Valley into New England. The

southerly winds kept temperatures in the sixties as far north as Vermont. Rain and snow showers continued over the Pacific Northwest and northern Rockies.

THURSDAY...The slow-moving cold front reached a line from New England to Tennessee, through Oklahoma to the southern Rockies. Showers and thunderstorms spread from the front to the east coast and temperatures soared all along the coast, reaching a record high of 71° at Caribou, Maine. Showers and thunderstorms also spread northward from Tennessee to the northern Mississippi Valley. Another cold front moving through the Northwest brought strong westerly winds which reached into North Dakota.

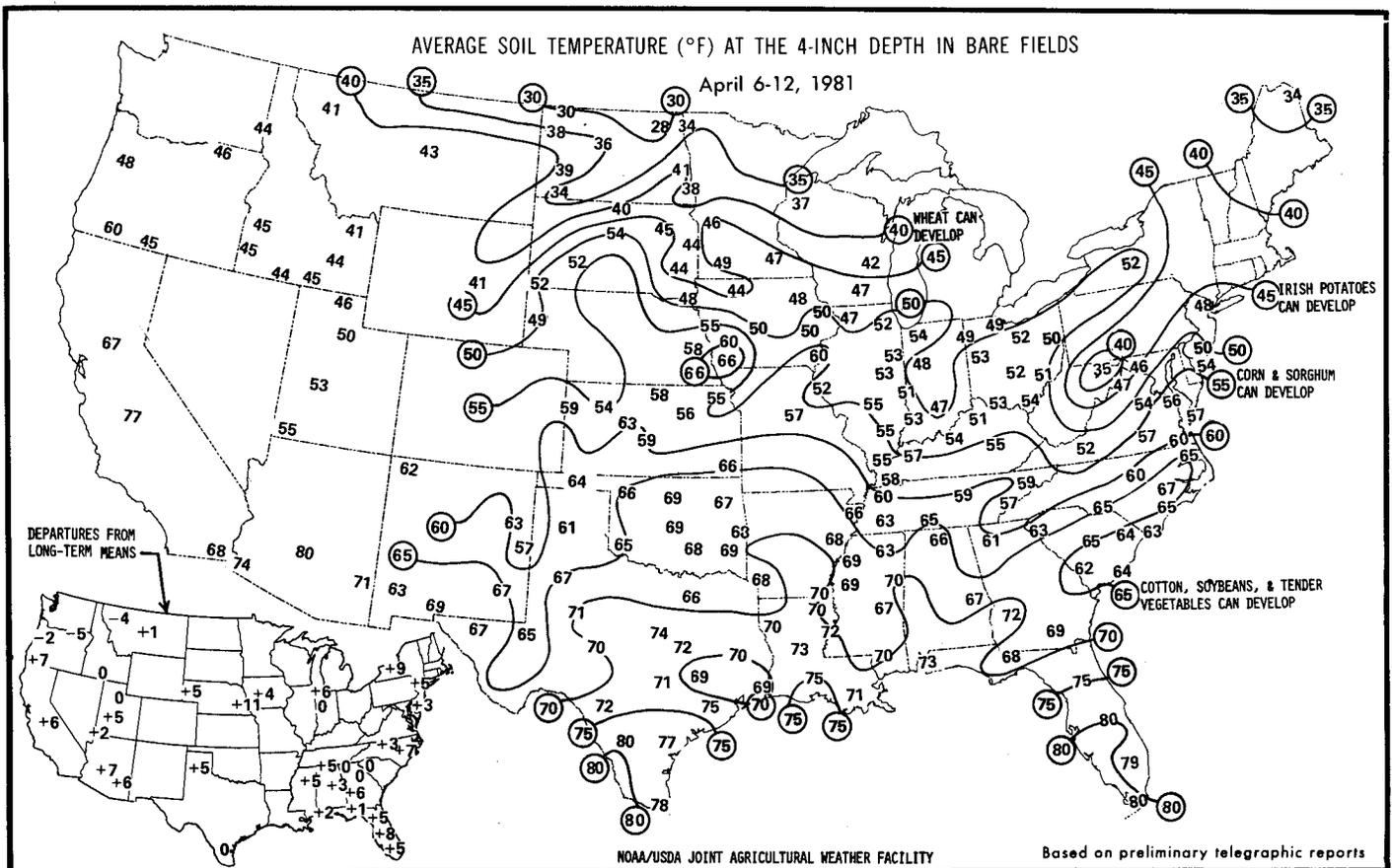
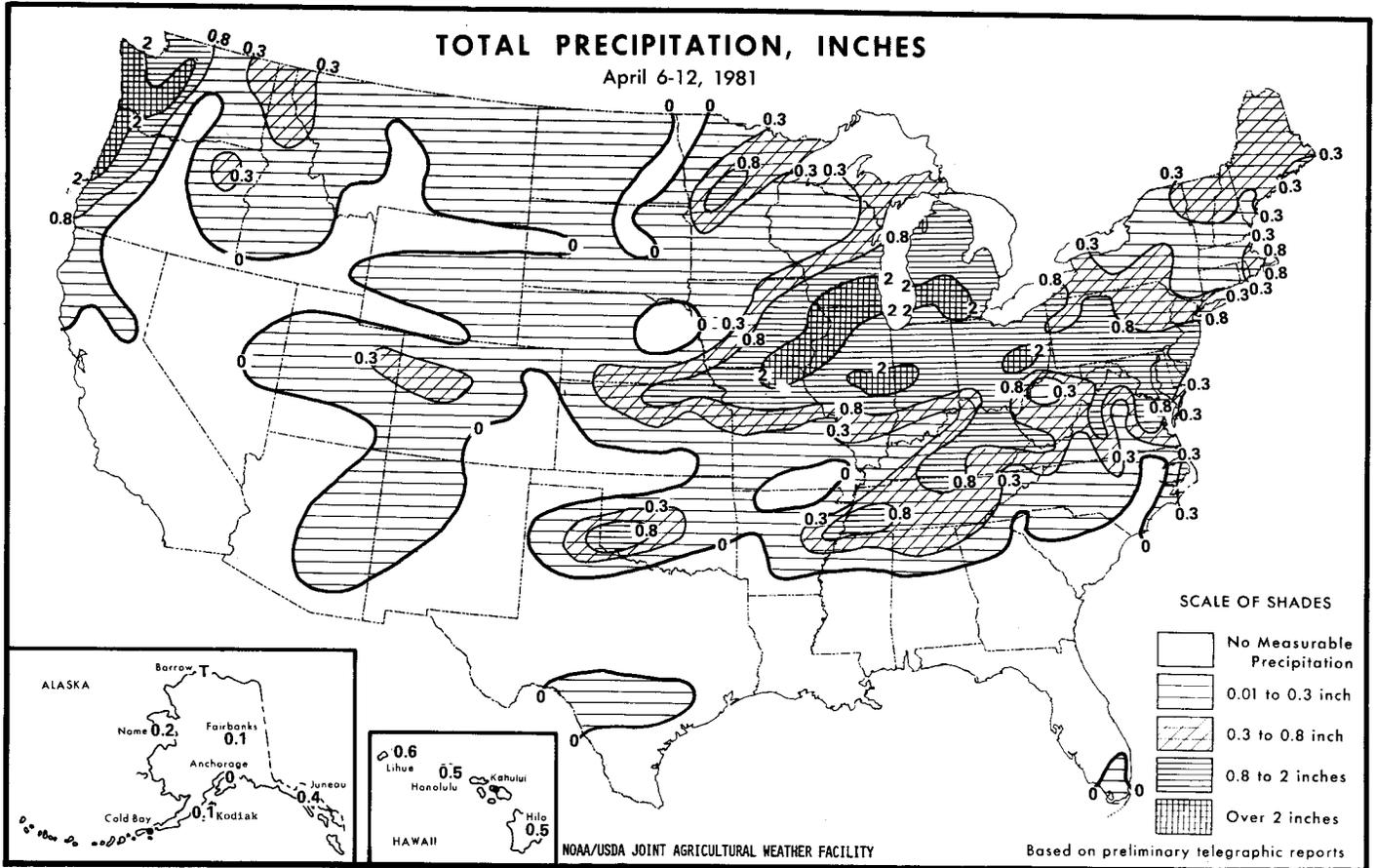
FRIDAY...The front moved northward across the middle Mississippi and lower Ohio Valleys, triggering showers and thunderstorms which became severe from northeastern Kansas to Wisconsin and northern Illinois. Tornadoes hit in eastern Iowa and large hail fell in northern Illinois. Record high temperatures continued in the East.

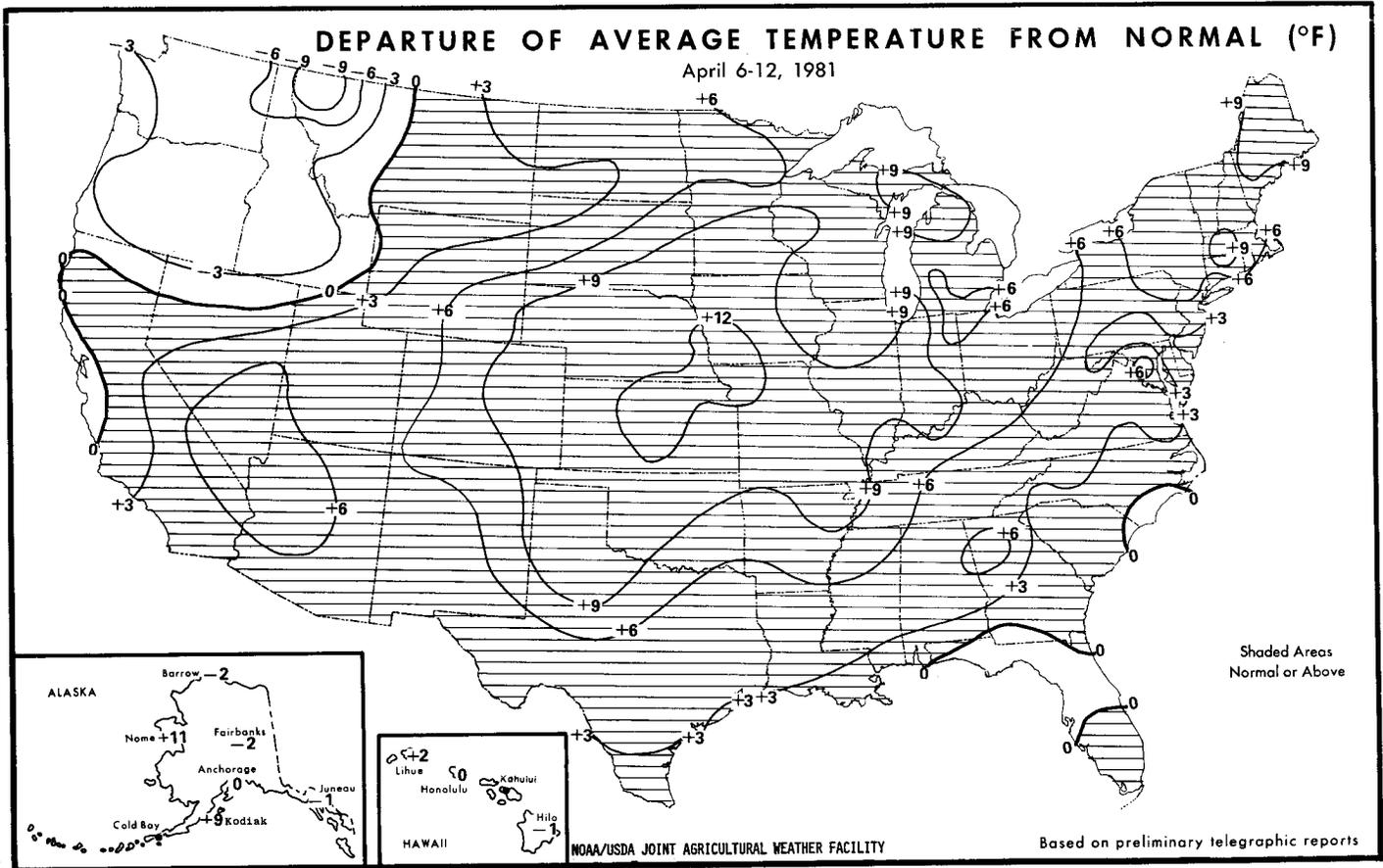
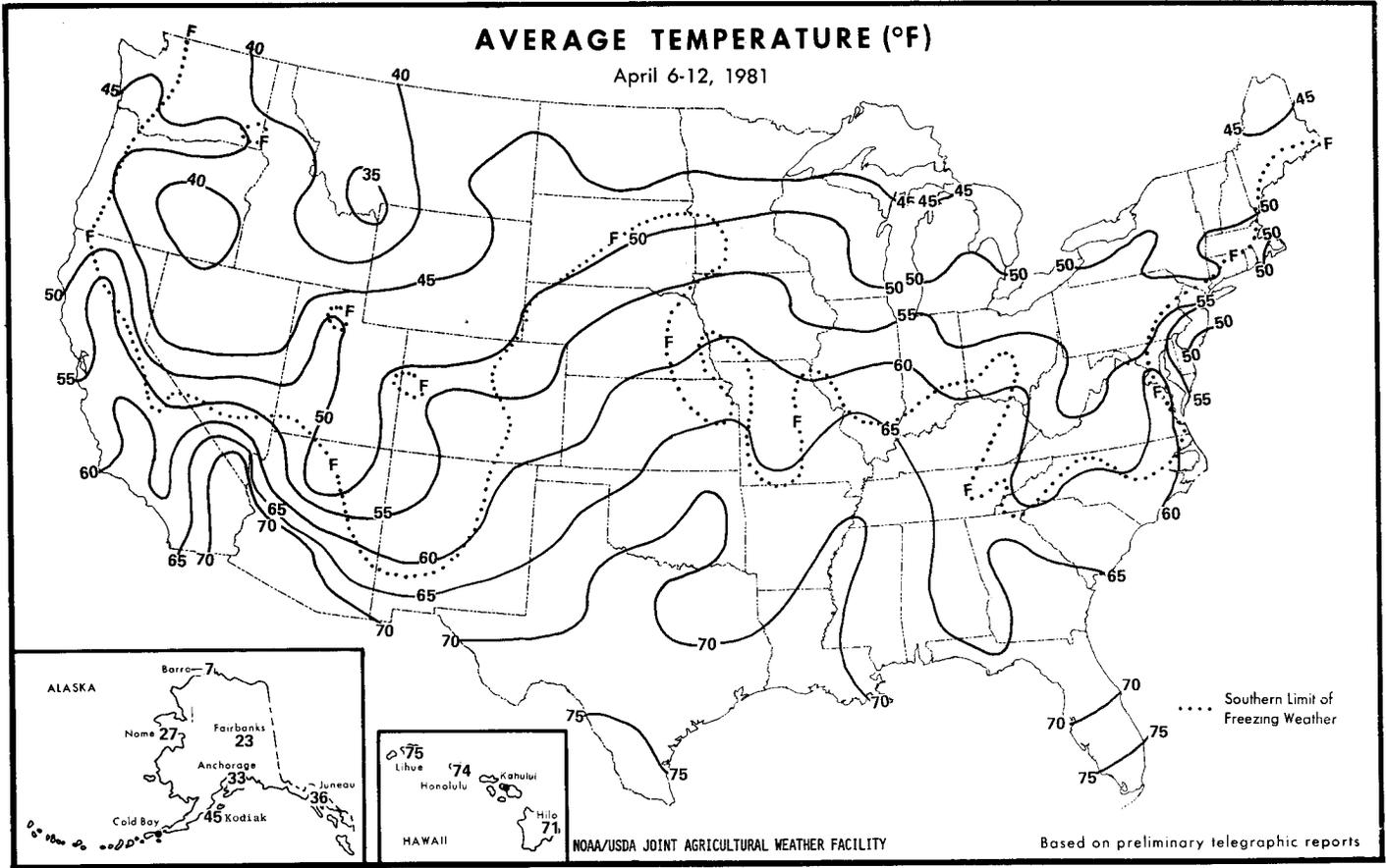
SATURDAY...Showers and thunderstorms were scattered from the Northwest to the mid-Atlantic States. A front from Maine through northern Illinois to central Kansas and southwestward accompanied warm, moist winds from the south, triggering showers and thunderstorms to the north and west of the front. Showers and a few thunderstorms were widely scattered throughout the warm air to the south and east of the front.

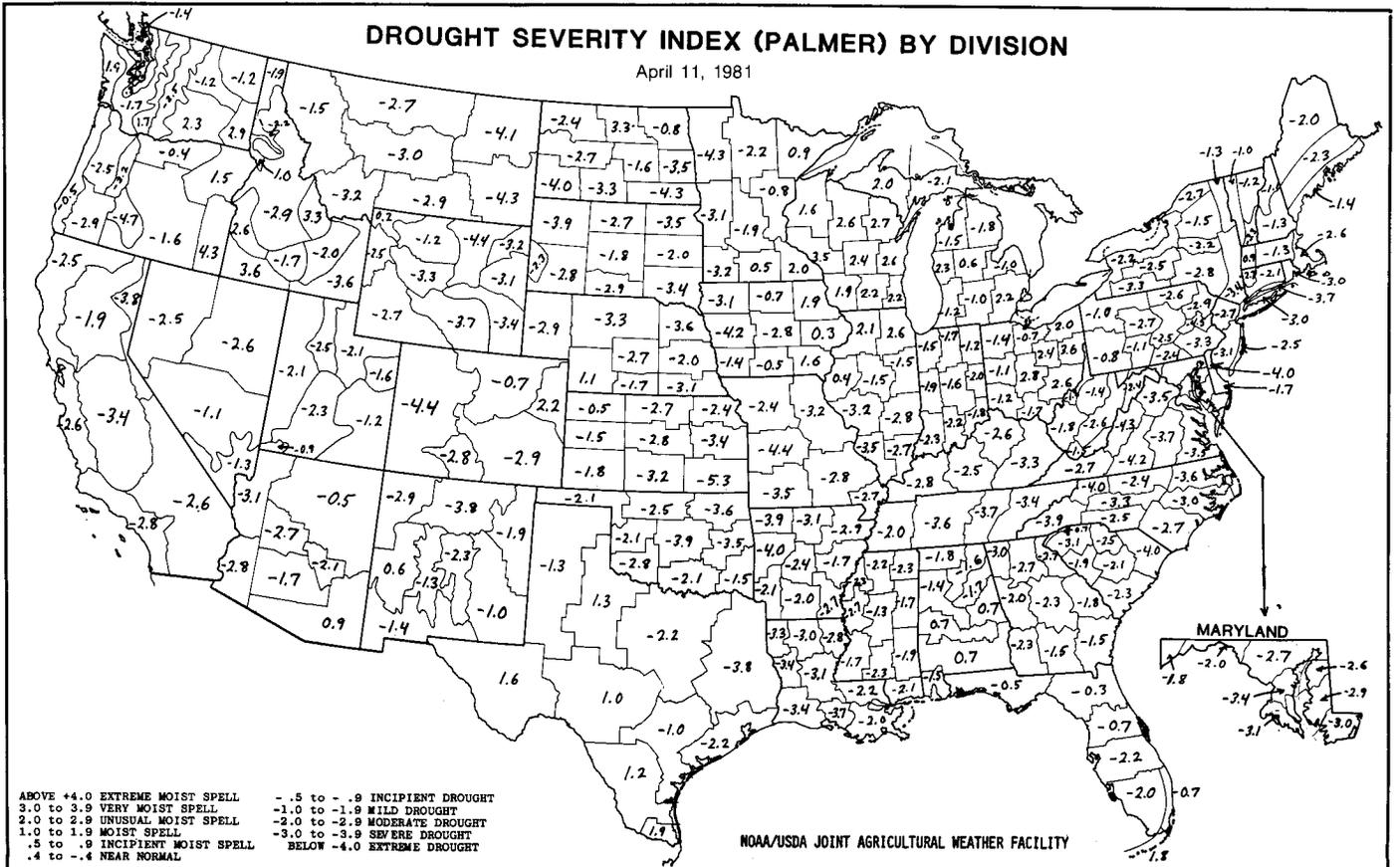
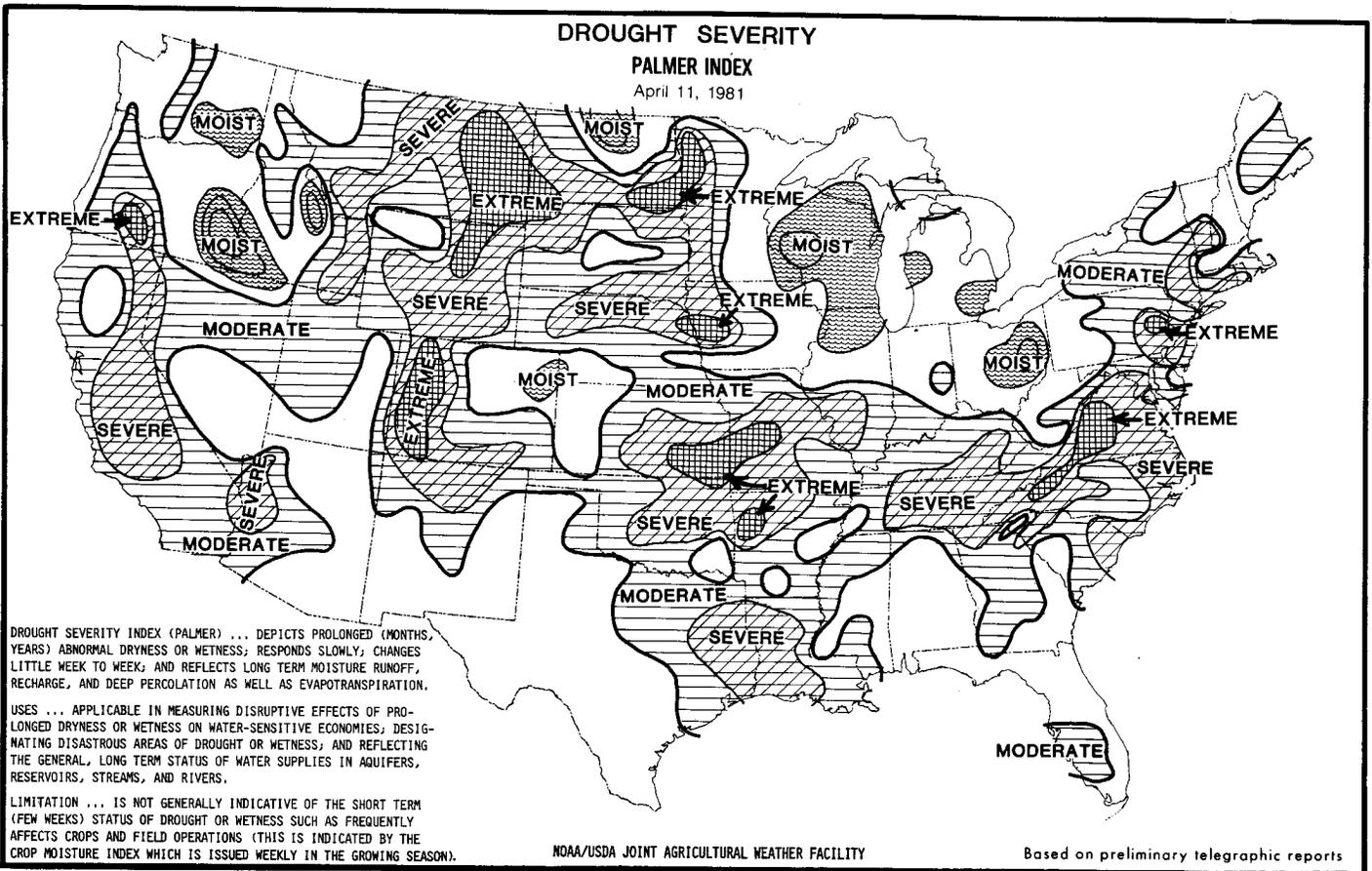
SUNDAY...The area of heavy thunderstorms extended from Oklahoma through Missouri to southern Ohio. Large hail pummeled parts of this area and local flooding occurred in Ohio. Heavy showers also fell in the mid-Atlantic States. Rainshowers, with snow in the mountains, continued over the Pacific Northwest and northern Rockies.

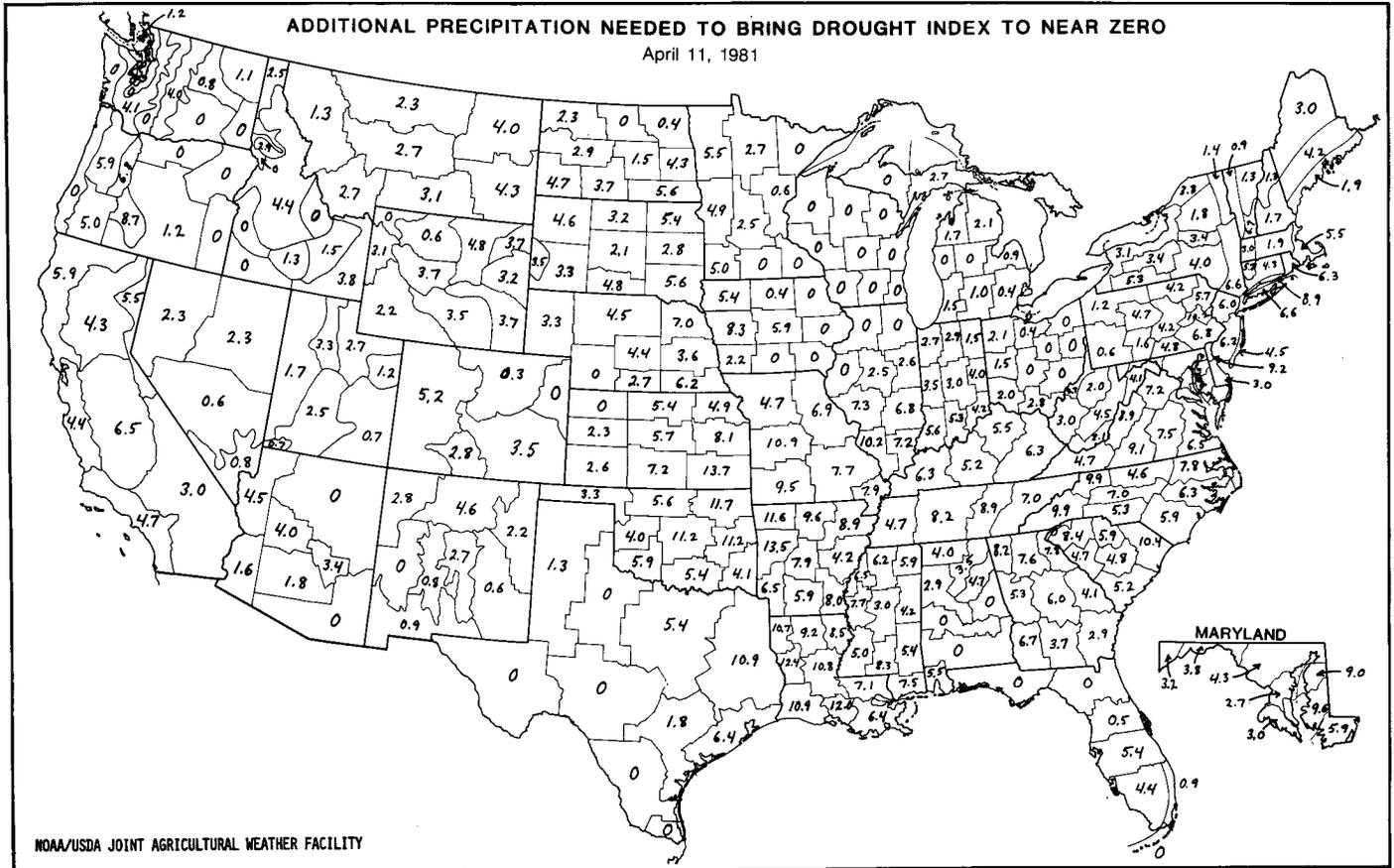
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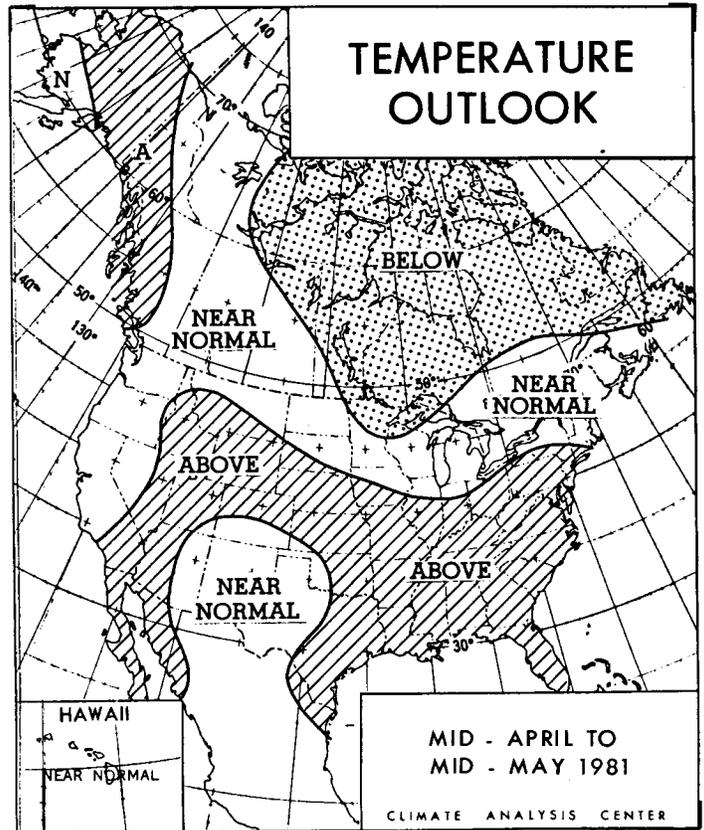
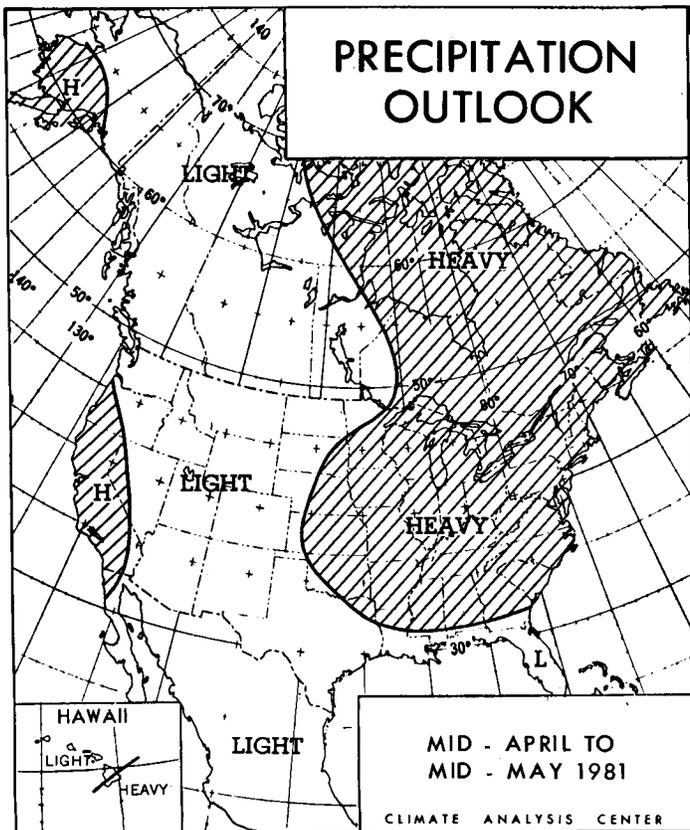








Average Monthly Weather Outlook



Weather Data for the Week Ending April 12, 1981

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS						
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Mar. 2	PCT. NORMAL SINCE Mar. 2	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE °F		PRECIPI-TATION			
																90 AND ABOVE	72 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE		
AL BIRMINGHAM	77	52	85	37	65	4	T	-1.2	T	8.4	106	14.8	81	84	42	0	0	0	0		
MOBILE	79	56	82	45	67	1	0	-1.4	0	3.5	34	13.5	70	91	48	0	0	0	0		
MONTGOMERY	76	52	82	42	64	0	0	-1.1	0	9.1	118	17.3	107	90	51	0	0	0	0		
AK ANCHORAGE	42	24	45	21	33	0	0	.1	0	.3	43	2.4	100	59	36	0	7	0	0		
BARROW	3	-11	5	-7	-7	-2	T	-1	T	0	0	.4	40	91	81	0	6	2	0		
FAIRBANKS	34	11	40	1	23	-2	T	.1	T	.1	20	1.1	79	41	30	0	7	1	0		
JUNEAU	41	31	45	26	36	-1	T	.4	T	.2	57	11.9	99	69	44	0	4	3	0		
KODIAK	50	38	52	30	45	9	T	.1	T	.8	154	26.7	176	72	42	0	1	2	0		
NOME	33	23	36	12	27	11	T	.2	T	0	109	4.1	146	63	70	0	7	2	0		
AZ FLAGSTAFF	60	33	64	27	47	6	0	.4	0	4.7	196	7.2	120	--	--	0	3	0	0		
PHOENIX	88	61	92	58	74	9	T	.1	T	1.2	133	3.1	155	31	12	3	0	0	0		
TUCSON	85	53	89	46	69	6	T	.1	T	2.2	314	4.3	205	34	13	0	0	0	0		
WINSLOW	73	38	76	33	55	3	T	.1	T	.4	67	1.3	87	--	--	0	0	1	0		
YUMA	90	57	93	53	73	3	0	.1	0	.2	40	1.0	71	35	14	6	0	0	0		
AR FORT SMITH	80	56	86	35	68	8	T	-1.0	T	3.6	67	7.9	72	86	42	0	0	1	0		
LITTLE ROCK	78	60	85	45	69	9	T	-1.1	T	4.0	57	10.2	65	77	45	0	0	2	0		
CA BAKERSFIELD	75	50	82	47	63	1	0	.2	0	2.2	183	4.1	128	--	-27	0	0	0	0		
EUREKA	55	44	57	42	49	0	T	.2	T	.6	82	16.1	86	82	60	0	0	2	0		
FRESNO	74	45	76	42	60	1	0	.3	0	4.9	96	6.5	114	77	29	0	0	0	0		
LOS ANGELES	66	55	75	53	61	-3	0	.4	0	2.5	104	6.2	85	74	56	0	0	0	0		
RED BLUFF	70	48	75	43	59	1	T	.4	T	5.2	158	12.6	113	--	-30	0	0	1	0		
SAN DIEGO	67	59	70	58	63	3	0	.2	0	2.9	138	8.4	153	72	61	0	0	0	0		
SAN FRANCISCO	60	45	64	43	53	-2	0	.4	0	3.7	116	12.0	111	81	49	0	0	0	0		
STOCKTON	73	43	76	37	58	1	0	.4	0	3.0	120	8.1	105	--	-33	0	0	0	0		
CO DENVER	70	39	77	36	54	9	T	.3	T	2.8	147	3.5	117	71	23	0	0	1	0		
GRAND JUNCTION	69	40	76	30	54	5	T	.3	T	1.8	164	2.1	95	57	17	0	1	2	0		
PUEBLO	77	39	85	32	58	9	0	.3	0	1.0	111	1.6	89	63	15	0	1	0	0		
CT BRIDGEPORT	59	42	65	36	51	4	T	.4	T	2.1	44	7.2	70	66	50	0	0	2	0		
HARTFORD	65	42	72	36	53	8	T	.2	T	1.4	26	9.0	75	56	31	0	0	2	0		
DC WASHINGTON	71	50	82	40	61	6	T	.6	T	0	3	6.0	62	74	42	0	0	3	0		
FL APALACHICOLA	75	56	78	47	66	-2	0	.9	0	3.1	49	7.7	57	82	59	0	0	0	0		
DAYTONA BEACH	77	61	81	54	69	-1	T	.6	T	3.0	68	8.8	93	77	42	0	0	0	0		
FORT MYERS	87	62	89	59	74	2	0	.5	0	1.4	36	3.8	49	91	40	0	0	0	0		
JACKSONVILLE	81	52	83	44	66	-1	T	.8	T	5.7	116	11.3	99	78	47	0	0	0	0		
KEY WEST	82	73	83	71	77	1	T	.3	T	.9	38	3.6	59	81	62	0	0	2	0		
MIAMI	81	72	82	68	76	2	0	.7	0	1.4	47	6.7	89	70	50	0	0	0	0		
ORLANDO	82	55	87	50	68	-2	0	.7	0	1.9	41	6.5	64	82	41	0	0	0	0		
TALLAHASSEE	80	49	85	37	64	-2	0	1.0	0	9.1	121	19.3	119	94	43	0	0	0	0		
TAMPA	81	57	84	48	69	-2	T	.6	T	1.7	35	7.5	74	87	43	0	0	0	0		
WEST PALM BEACH	80	70	82	66	75	2	T	.8	T	2.5	54	7.1	72	72	50	0	0	0	0		
GA ATLANTA	79	55	86	41	67	7	0	1.1	0	5.4	72	13.0	78	81	35	0	0	0	0		
AUGUSTA	79	48	87	37	63	1	0	.8	0	3.8	64	9.9	74	89	34	0	0	0	0		
MACON	81	53	87	40	67	3	0	.9	0	6.1	91	16.0	107	84	40	0	0	0	0		
SAVANNAH	78	53	86	44	65	1	0	.7	0	5.1	91	9.0	79	89	39	0	0	0	0		
HI HILO	--	--	--	--	71	-1	T	.5	T	2.6	--	--	--	--	--	0	--	--	--		
HONOLULU	83	65	84	64	74	0	T	.5	T	.1	2	3.0	27	93	51	0	0	3	0		
KAHULUI	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
LIHUE	--	--	--	--	75	2	T	.6	T	.2	--	--	--	--	--	--	--	--	--		
ID BOISE	55	31	59	27	43	-4	T	.3	T	3.1	221	5.3	126	73	27	0	4	1	0		
LEWISTON	53	35	59	30	44	-5	T	.2	T	2.3	177	4.3	123	72	43	0	1	1	0		
POCATELLO	52	30	61	23	41	-2	T	.2	T	1.8	150	3.2	107	64	30	0	5	0	0		
IL CAIRO	75	59	84	44	67	9	T	.8	T	3.2	49	7.9	55	--	--	0	0	1	0		
CHICAGO	64	41	74	22	53	6	T	1.2	T	.4	5	2.3	61	4.6	67	81	49	0	1	4	1
MOLINE	68	41	76	21	55	7	T	2.2	T	1.3	.9	2.9	74	5.5	79	83	48	0	1	4	2
PEORIA	67	46	73	27	56	8	T	1.9	T	.9	.9	3.0	68	5.8	74	80	55	0	1	4	1
ROCKFORD	65	40	74	21	52	6	T	2.7	T	1.8	1.1	3.5	88	6.1	86	72	38	0	1	3	2
SPRINGFIELD	74	52	85	31	63	12	T	1.5	T	.6	.7	4.0	98	6.5	84	74	48	0	1	4	1
IN EVANSVILLE	74	51	83	33	63	8	T	.1	T	.8	.1	2.8	44	6.2	47	81	46	0	0	2	0
FORT WAYNE	62	43	70	29	53	6	T	1.6	T	.8	.5	3.0	71	6.7	74	74	48	0	1	4	1
INDIANAPOLIS	70	47	76	30	59	9	T	1.6	T	.7	1.1	3.5	69	6.8	65	76	40	0	1	4	1
SOUTH BEND	66	46	73	32	56	10	T	.8	T	.1	.4	2.0	48	4.7	54	73	52	0	1	5	0
IA BURLINGTON	69	45	80	28	57	8	T	3.0	T	2.1	1.6	3.4	85	5.2	74	74	46	0	1	4	0
DES MOINES	70	45	83	29	58	11	T	.8	T	.1	.4	1.4	41	2.8	49	74	46	0	1	4	0
DUBUQUE	63	42	70	26	53	8	T	2.0	T	1.0	1.1	3.5	78	6.3	84	79	--	0	1	4	2
SIoux CITY	71	43	78	31	57	11	T	.5	T	.7	1.8	78	2.6	67	63	28	0	1	0	0	
KS CONCORDIA	77	50	87	39	63	13	T	.9	T	.5	.7	2.3	96	2.5	64	75	36	0	0	2	1
DODGE CITY	77	46	86	37	62	10	0	.4	0	1.6	89	2.0	69	71	29	0	0	0	0	0	
GOODLAND	72	39	77	35	55	9	T	.3	T	3.8	292	4.7	214	79	31	0	0	0	0	0	
TOPEKA	76	51	84	31	63	11	T	.5	T	.3	.5	2.8	80	3.3	60	71	35	0	0	0	0
WICHITA	80	53	87	33	66	12	0	.6	0	2.2	79	2.7	57	71	35	0	0	0	0	0	
KY LEXINGTON	71	50	79	34	61	7	T	1.0	T	.1	.9	4.0	63	8.9	64	77	41	0	0	2	1
LOUISVILLE	75	52	84	36	63	10	T	.2	T	.8	.1	3.8	57	7.4	54	77	40	0	0	3	0
LA BATON ROUGE	81	59	85	44	70	3	0	-1.2	0	1.8	26	10.2	63	98	50	0	0	0	0	0	

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

Weather Data for the Week Ending April 12, 1981

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Mar. 2	PCT. NORMAL SINCE Mar. 2	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE °F			
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
LAKE CHARLES	79	60	83	48	70	2	0	-1.0	0	1.9	36	7.1	50	83	50	0	0	0	0
NEW ORLEANS	79	58	83	44	69	2	0	-1.0	0	2.9	41	12.1	72	99	58	0	0	0	0
SHERBOURNE	80	58	85	42	69	4	T	0	T	2.2	37	8.6	62	93	51	0	0	0	0
ME CARIBOU	52	35	71	27	43	10	.3	.3	.3	4.4	142	8.8	117	69	38	0	2	1	0
PORTLAND	60	36	64	28	48	7	.3	.5	.3	2.8	58	10.8	91	64	38	0	3	2	0
MD BALTIMORE	67	43	76	31	55	3	.9	.2	.7	2.5	52	6.0	57	71	38	0	1	3	1
MA BOSTON	65	44	72	37	54	8	.5	.4	.3	2.0	38	9.7	78	61	35	0	0	3	0
CHATHAM	54	42	61	36	48	-	1.1	-	.5	3.3	-	11.1	-	74	56	0	0	2	2
MI ALPENA	60	34	72	26	47	9	1.0	.4	.9	2.4	86	4.9	82	-	-	0	3	2	1
DETROIT	64	39	74	26	51	6	1.1	.3	.8	1.9	51	5.5	75	81	41	0	2	2	1
FLINT	62	40	71	25	51	7	1.9	1.3	.8	3.2	107	5.8	91	71	45	0	2	4	1
GRAND RAPIDS	60	38	67	20	49	5	2.6	1.8	1.2	4.1	111	6.5	90	81	55	0	1	4	3
HOUGHTON LAKE	59	39	67	24	49	10	1.1	1.1	1.1	2.2	81	5.3	95	71	42	0	1	1	1
LANSING	62	41	71	22	52	7	2.5	1.9	1.4	3.8	112	5.7	83	83	55	0	2	5	1
MARQUETTE	55	30	69	16	42	8	.3	.3	.1	3.5	106	7.8	116	78	39	0	5	1	0
MUSKEGON	59	39	70	22	49	6	1.9	1.1	1.0	3.0	83	6.7	87	78	51	0	1	4	2
SADLT STR. MARIE	55	31	60	22	43	7	.3	.2	.2	2.7	104	5.8	95	77	41	0	3	3	0
MN DULUTH	53	31	63	25	42	6	.3	.3	.2	1.8	64	3.5	71	74	37	0	6	2	0
INT'L FALLS	55	29	63	24	42	7	.1	.2	.1	1.5	88	2.0	61	75	29	0	6	2	0
MINNEAPOLIS	64	40	71	28	52	10	T	.4	T	1.2	52	3.6	95	64	36	0	1	1	0
ROCHESTER	61	38	71	27	50	8	.1	.4	.1	1.5	58	3.7	100	75	48	0	1	2	0
SAINT CLOUD	62	34	68	26	48	8	.1	.4	.1	1.5	71	3.0	81	78	-	0	2	1	0
MS JACKSON	80	56	85	41	68	4	T	1.1	T	6.1	81	11.5	68	90	45	0	0	0	0
MERIDIAN	81	54	86	40	68	4	T	1.3	T	11.6	140	18.7	106	86	41	0	0	0	0
MO COLUMBIA	74	51	83	32	63	10	.7	.2	.6	2.2	54	4.1	54	65	44	0	1	2	1
KANSAS CITY	75	52	84	35	64	12	.7	.1	.6	2.5	64	3.3	50	80	46	0	0	2	1
SAINT LOUIS	75	55	85	35	65	10	.3	.6	.3	3.5	78	6.4	76	81	47	0	0	3	0
SPRINGFIELD	76	52	83	31	64	10	T	.9	T	2.5	56	5.1	59	83	46	0	1	1	0
WT BILLINGS	56	33	69	26	45	2	T	.3	T	1.7	106	2.0	69	48	18	0	3	1	0
GLASGOW	56	29	60	24	43	3	T	.1	T	.4	67	.5	33	61	21	0	6	1	0
GREAT FALLS	50	28	58	24	39	-2	T	.2	T	2.2	169	3.0	100	63	24	0	7	0	0
WYVER	53	30	61	23	42	1	T	.2	T	1.1	138	1.1	65	65	25	0	5	1	0
HELENA	49	25	58	18	37	-3	T	.2	T	1.2	133	1.4	78	73	28	0	7	1	0
KALISPELL	46	30	50	26	38	-2	.2	0	.1	2.0	167	5.5	141	85	45	0	6	4	0
MILES CITY	58	34	65	25	46	4	.1	.2	.1	.4	44	.6	33	61	20	0	3	1	0
NISSOULA	49	28	56	22	38	-3	.1	.1	.1	1.5	167	2.4	83	87	36	0	6	2	0
NE GRAND ISLAND	73	43	82	36	58	11	T	.5	T	3.2	160	3.6	113	72	33	0	0	0	0
LINCOLN	74	44	81	31	59	11	.2	.4	.2	2.6	104	3.0	77	77	44	0	1	1	0
NORFOLK	72	43	80	32	57	12	0	.4	0	2.6	124	3.1	91	67	24	0	1	0	0
NORTH PLATTE	70	41	81	34	56	10	.2	.2	.1	3.4	200	3.7	142	69	32	0	0	2	0
OMAHA	73	48	78	39	60	13	T	.6	T	1.6	62	2.0	47	66	39	0	0	1	0
VALENTINE	66	38	82	34	52	9	.1	.3	.1	1.5	115	1.7	77	58	25	0	0	2	0
NV ELY	63	28	68	22	45	6	T	.2	T	1.9	158	2.9	132	70	20	0	7	2	0
LAS VEGAS	84	57	87	47	70	9	0	.1	.9	1.5	150	1.8	120	29	11	0	0	0	0
KEBO	62	27	66	22	45	0	0	0	.7	.8	88	1.7	57	78	22	0	6	0	0
WINDHECCA	60	24	65	16	42	-1	0	.1	0	1.1	122	2.1	81	56	19	0	5	0	0
NH CONCORD	63	33	74	24	48	6	.2	.5	.1	2.1	57	10.3	117	60	31	0	4	3	0
NJ ATLANTIC CITY	60	37	69	25	49	0	1.0	.3	.5	4.4	79	8.7	69	91	43	0	2	4	0
TRENTON	65	44	69	38	54	4	1.3	.5	.7	3.4	68	7.2	69	-	-	0	0	3	1
NM ALBUQUERQUE	76	38	80	31	57	4	T	.1	T	.8	114	1.6	100	36	11	0	1	1	0
ROSWELL	83	45	87	40	64	5	0	.1	0	.2	40	.7	50	-	-	0	0	0	0
NY ALBANY	61	38	75	33	49	5	.2	.5	.2	1.1	30	6.7	82	67	41	0	0	1	0
BINGHAMTON	60	38	72	27	49	7	.4	.3	.2	1.3	33	6.1	69	63	35	0	2	3	0
BUFFALO	60	38	72	31	49	7	.4	.4	.2	2.5	64	7.1	76	76	46	0	2	3	0
NEW YORK	64	46	72	40	55	6	.3	.5	.2	2.2	42	8.2	73	66	45	0	0	3	0
ROCHESTER	62	35	74	28	48	5	.2	.4	.1	1.5	43	5.9	71	77	30	0	2	3	0
SYRACUSE	65	39	78	31	52	8	.1	.6	.1	1.5	36	5.5	57	65	26	0	2	1	0
NC ASHEVILLE	71	43	81	28	57	3	T	.9	T	3.7	62	8.9	67	79	42	0	1	1	0
CHARLOTTE	74	50	85	41	62	3	.2	.6	.1	2.3	39	6.4	47	83	44	0	0	1	0
GREENSBORO	70	48	82	36	59	3	.2	.6	.2	3.1	63	7.4	64	83	47	0	0	1	0
HATTERAS	69	48	75	34	59	1	.9	.2	.7	3.4	68	7.2	52	77	49	0	0	2	1
RALEIGH	72	46	85	29	59	1	.3	.4	.3	3.0	64	7.0	62	88	35	0	1	1	0
WILMINGTON	72	49	86	36	61	-1	T	.7	T	3.8	72	8.0	67	84	44	0	0	0	0
ND BISMARCK	56	28	65	19	42	2	.1	.3	.1	.2	15	.8	36	72	28	0	6	1	0
FARGO	61	28	69	20	45	6	T	.4	T	.7	47	1.3	54	67	28	0	6	1	0
WILLISTON	57	32	66	23	45	5	.1	.2	.1	.3	30	.7	37	68	26	0	3	1	0
OR ARRON-CANTON	65	42	75	30	54	7	1.7	.9	1.1	4.6	105	10.0	106	78	37	0	1	4	2
CINCINNATI	70	47	81	33	58	7	.5	.4	.3	3.7	67	8.2	68	72	38	0	0	3	0
CLEVELAND	65	40	75	30	53	7	1.6	.9	1.5	3.5	81	7.1	75	78	36	0	2	3	1
COLUMBUS	69	45	78	33	57	8	1.9	1.1	1.2	4.4	96	9.8	99	73	46	0	0	4	1
DAYTON	69	48	76	30	58	9	1.4	.7	1.3	3.4	74	7.0	72	87	44	0	1	3	1
TOLEDO	64	39	74	25	52	6	.4	.3	.2	1.2	34	5.1	69	88	48	0	3	4	0
YOUNGSTOWN	66	43	78	32	54	9	.8	.1	.5	3.9	83	8.6	85	70	35	0	2	3	1
OK OKLAHOMA CITY	80	56	86	38	68	10	.5	.2	.5	4.1	132	5.4	93	76	44	0	0	2	0

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

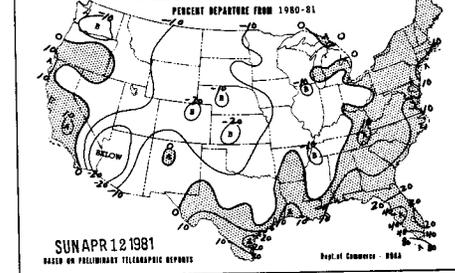
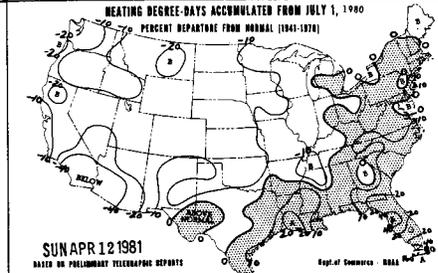
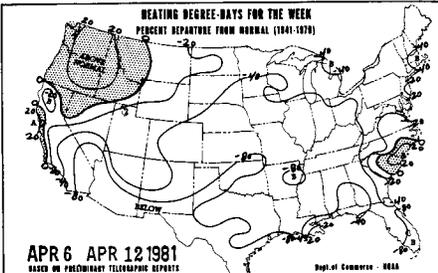
Weather Data for the Week Ending April 12, 1981

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS					
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Mar. 2	PCT. NORMAL SINCE Mar. 2	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE °F				
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE	
OR TULSA	81	58	88	39	70	11	T	.9	T	1.7	43	4.1	56	78	43	0	0	1	0	
OR ASTORIA	52	40	53	37	46	-1	T	2.4	T	1.1	10.8	127	21.9	83	82	61	0	0	7	4
BURNS	49	25	53	20	37	-5	T	.1	T	1.7	189	3.4	87	79	26	0	0	7	0	
MEDFORD	58	35	59	29	47	-2	T	.2	T	1.3	62	3.7	47	87	41	0	0	3	0	
PENDLETON	53	36	56	33	45	-5	T	0	T	1.7	121	4.0	93	42	0	0	0	4	0	
PORTLAND	53	41	56	38	47	-3	T	.5	T	3.6	80	9.0	62	89	62	0	0	7	0	
SALEM	55	36	57	32	45	-3	T	.9	T	5.2	96	10.6	62	94	51	0	1	4	0	
PA ALLENTOWN	63	40	71	32	51	4	T	.4	T	2.3	46	7.6	70	85	51	0	1	3	1	
ERIE	61	41	76	30	51	8	T	.9	T	4.1	100	10.2	115	70	43	0	1	3	1	
HARRISBURG	65	40	76	28	52	2	T	.3	T	2.5	60	8.8	94	70	43	0	2	3	1	
PHILADELPHIA	64	42	71	35	53	3	T	.1	T	3.4	68	6.9	66	78	32	0	3	3	0	
PITTSBURGH	67	40	76	27	54	6	T	1.0	T	4.5	92	9.2	91	78	37	0	3	3	2	
SCRANTON	63	41	74	31	52	6	T	.4	T	1.7	47	10.4	135	61	37	0	1	3	2	
RI PROVIDENCE	64	42	71	34	53	8	T	.5	T	2.6	48	8.2	66	67	31	0	0	2	0	
SC CHARLESTON	77	52	85	41	64	1	T	.7	T	0	62	6.8	56	93	43	0	0	0	0	
COLUMBIA	78	48	88	33	63	1	T	.9	T	2.9	48	7.8	58	92	37	0	0	0	0	
GREENVILLE	74	49	84	34	61	2	T	1.1	T	3.7	51	7.8	49	83	42	0	0	1	0	
SD ABERDEEN	62	33	72	27	47	6	T	.4	T	2.1	131	2.5	96	71	32	0	4	1	0	
HURON	66	38	76	34	52	9	T	.4	T	2.1	124	2.2	76	74	28	0	0	0	0	
RAPID CITY	62	32	79	26	47	5	T	.4	T	.1	6	.4	16	62	25	0	4	1	0	
SIoux FALLS	67	39	75	33	53	10	T	.4	T	2.2	105	2.7	71	73	31	0	0	2	0	
TN CHATTANOOGA	76	51	83	37	63	4	T	.5	T	6.4	85	13.6	79	84	41	0	0	1	1	
KNOXVILLE	73	52	81	36	62	4	T	.5	T	4.3	69	9.1	57	83	51	0	0	1	0	
MEMPHIS	78	62	84	43	70	10	T	.2	T	6.2	87	11.2	66	76	48	0	0	1	1	
NASHVILLE	75	52	82	38	64	6	T	.5	T	4.8	73	10.3	65	80	42	0	0	1	1	
TX ABILENE	83	61	88	44	72	8	T	.5	T	0	2.0	118	4.6	121	78	40	0	0	0	0
AMARILLO	82	47	89	37	64	10	T	.1	T	2.1	210	2.4	126	67	17	0	0	1	0	
AUSTIN	81	63	86	47	72	5	T	.8	T	2.6	84	6.0	72	87	51	0	0	0	0	
BEAUMONT	80	63	84	49	72	5	T	.9	T	0	2.0	44	8.8	68	87	56	0	0	0	0
BROWNSVILLE	83	68	86	55	76	2	T	.2	T	3.5	389	6.1	156	86	54	0	0	0	0	0
CORPUS CHRISTI	81	66	84	54	74	2	T	.4	T	2.4	150	6.8	128	94	58	0	0	0	0	0
DEL RIO	85	62	88	51	74	3	T	.3	T	1.6	133	2.5	86	83	39	0	0	1	0	0
EL PASO	84	50	88	42	67	5	T	.1	T	.4	57	2.0	125	31	14	0	0	0	0	0
FORT WORTH	78	61	83	37	69	6	T	.9	T	3.5	88	5.9	71	88	56	0	0	0	0	0
GALVESTON	73	66	76	62	70	2	T	.6	T	.4	11	3.9	41	85	80	0	0	0	0	0
HOUSTON	83	63	89	42	73	5	T	.7	T	2.0	53	6.6	59	77	48	0	0	0	0	0
LUBBOCK	84	52	89	42	68	10	T	.2	T	1.2	109	2.1	105	70	17	0	0	0	0	0
MIDLAND	83	52	90	37	67	5	T	.1	T	.4	57	1.7	106	84	25	1	0	0	0	0
SAN ANGELO	81	60	85	45	71	5	T	.3	T	2.2	157	4.5	150	77	39	0	0	0	0	0
SAN ANTONIO	83	64	88	45	73	5	T	.5	T	1.2	50	5.0	78	90	48	0	0	1	0	0
VICTORIA	82	63	85	48	73	4	T	.5	T	1.0	38	4.4	65	91	44	0	0	0	0	0
WACO	79	60	81	36	69	4	T	.9	T	2.5	68	5.7	71	93	56	0	0	0	0	0
WICHITA FALLS	84	58	91	41	71	9	T	.6	T	2.3	82	5.8	112	75	42	1	0	0	0	0
UT BLANDING	68	34	71	31	50	5	T	.2	T	2.6	217	3.0	91	64	14	0	0	0	0	0
SALT LAKE CITY	61	40	69	31	51	4	T	.4	T	2.3	92	3.8	75	62	30	0	1	2	0	0
VT BURLINGTON	58	38	72	29	48	7	T	.6	T	2.7	96	8.6	139	64	41	0	2	2	0	0
VA LYNCHBURG	71	44	84	26	58	3	T	.4	T	.7	3.2	71	7.5	74	79	30	0	1	2	1
NORFOLK	71	48	87	41	59	3	T	.3	T	2.2	2.9	64	6.2	55	74	34	0	0	3	0
RICHMOND	72	45	87	31	58	3	T	.2	T	.6	3.3	73	6.7	64	78	37	0	1	2	1
ROANOKE	70	44	81	26	57	3	T	.4	T	2.8	64	5.6	54	79	30	0	1	2	0	0
WA COLVILLE	49	31	51	27	40	-5	T	.2	T	2.5	167	5.3	106	30	0	4	4	0	0	0
OMAK	56	32	57	25	44	-3	T	.1	T	.7	58	3.8	97	30	0	5	1	0	0	0
QUILLAYUTE	49	36	51	32	43	-2	T	.9	T	1.0	16.7	118	32.3	79	85	72	0	1	7	2
SEATTLE-TACOMA	50	38	52	35	44	-3	T	.3	T	3.5	76	10.4	72	86	60	0	0	5	0	0
SPOKANE	46	30	49	26	38	-6	T	.3	T	2.0	95	4.3	67	82	54	0	5	2	0	0
WALLA-WALLA	54	38	56	35	47	-4	T	.1	T	3.2	168	7.4	132	77	41	0	0	2	0	0
YAKIMA	56	29	60	22	43	-5	T	.1	T	.1	14	1.8	64	71	32	0	5	0	0	0
WV BECKLEY	67	43	77	28	55	5	T	.2	T	3.2	58	5.9	47	71	42	0	2	3	0	0
CHARLESTON	72	44	83	27	58	4	T	.3	T	3.1	60	8.7	72	79	32	0	1	4	0	0
HUNTINGTON	73	47	83	28	60	6	T	.0	T	3.1	58	8.0	70	82	43	0	1	4	0	0
PARKERSBURG	72	46	83	30	59	7	T	.2	T	2.1	42	6.1	56	72	33	0	1	3	0	0
WI GREEN BAY	58	37	66	24	48	6	T	.6	T	3.0	111	5.7	114	81	61	0	1	4	0	0
LA CROSSE	65	43	74	24	54	9	T	.2	T	3.3	110	5.6	117	77	45	0	1	3	0	0
MADISON	63	37	72	18	50	7	T	1.7	T	2.9	100	5.4	102	86	44	0	2	4	2	2
MILWAUKEE	59	37	71	24	48	6	T	2.2	T	3.6	113	6.8	111	84	45	0	1	3	2	2
WY CASPER	58	31	68	23	45	4	T	.3	T	1.7	121	2.4	104	31	0	4	1	0	0	0
CHEYENNE	63	33	70	28	48	8	T	.3	T	1.0	63	1.5	60	71	21	0	3	1	0	0
LANDER	58	32	65	25	45	5	T	.4	T	2.8	140	3.7	132	61	22	0	4	2	0	0
SHERIDAN	59	27	70	19	43	2	T	.5	T	.8	44	1.4	42	68	24	0	5	0	0	0
PR SAN JUAN	84	76	85	75	80	3	T	.5	T	5.9	203	11.3	123	79	61	0	0	5	0	0

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

HEATING DEGREE DAYS (BASE 65°) FOR WEEK ENDING APR. 12, 1981. BASED ON 1941-70 NORMALS. + ACCUMULATION FROM JULY 1, 1980.

Table with columns for STATES AND STATIONS, WEEKLY (TOTAL, DEPARTURE*), and SEASONAL ACCUMULATION (+) DEPARTURE* FROM 1979-80. Rows list various states and cities with their corresponding HDD values.



Heating Degree Days (Base 65° F.)

March 1981

ALA, Birmingham	426	MAINE, Caribou	1143	OKLA, Okla. City	400
Mobile	180	Portland	761	Trisha	360
Montgomery	341	MD, Baltimore	706	OREG, Astoria	518
ALASKA, Anchorage	---	MASS, Boston	796	Burns U.	819
Barrow	---	Chatham	867	Medford	553
Fairbanks	---	MICH, Alpena	1013	Pendleton	593
Juneau	---	Detroit	878	Portland	494
Nome	---	Flint	903	Salem	566
ARIZ, Flagstaff	873	Grand Rapids	919	PA, Allentown	818
Phoenix	74	Houghton Lake	1001	Erie	982
Tucson	244	Marquette U.	907	Harrisburg	809
Winslow	608	Minneapolis	1160	Philadelphia	768
Yuma	53	St. Ste. Marie	1163	Pittsburgh	904
ARK, Fort Smith	406	MINN, Duluth	1133	Scranton	886
Little Rock	372	International Falls	1119	R.I. Providence	808
CALIF, Bakersfield	243	Rochester	905	S.C, Charleston	333
Eureka U.	451	St. Cloud	906	Columbia	424
Fresno	316	MISS, Jackson	312	Greenville	451
Los Angeles U.	207	Meridian	290	S.DAK, Aberdeen	907
Red Bluff	310	MO, Columbia	630	Huron	822
Stockton	330	Kansas City	607	Rapid City	765
San Diego	116	St. Louis	569	Siox Falls	818
San Francisco	358	Springfield	547	TENN, Chattanooga	515
COLO, Denver	727	MONT, Billings	579	Knoxville	556
Grand Junction	645	Glasgow	799	Memphis	342
Pueblo	584	Great Falls	855	Nashville	537
CONN, Bridgeport	331	Havre	828	TEX, Abilene	312
Hartford	828	Helena	832	Amarillo	496
D.C, Washington	536	Kalispell	806	Austin	193
FLA, Apalachicola	200	Miles City	746	Beaumont	140
Ft. Myers	19	Missoula	768	Brownsville	38
Jacksonville	202	NEBR, Grand Island	715	Corpus Christi	90
Key West	1	Lincoln	690	Del Rio	119
Lakeland U.	---	Norfolk	741	El Paso	233
Miami	12	North Platte	762	Fort Worth	284
Orlando	76	Omaha	877	Galveston U.	120
W. Palm Beach	27	Valentine	806	Houston	144
Tallahassee	243	NEV, Ely	905	Lubbock	420
Tampa	103	Las Vegas	263	Midland	383
GA, Atlanta	410	Reno	715	San Angelo	331
Augusta	391	Winnemucca	809	San Antonio	157
Macon	279	N.H, Concord	951	Victoria	120
Savannah	263	N.J, Atlantic City	871	Waco	285
IDAHO, Boise	631	Trenton U.	741	Wichita Falls	335
Lewiston	564	N.MEX, Albuquerque	575	UTAH, Milford	805
Pocatello	801	Roswell	404	Salt Lake City	641
Pocatello	801	N.Y, Albany	930	VT, Burlington	969
ILL, Cairo U.	489	Binghamton	1006	VA, Lynchburg	666
Chicago	846	Buffalo	956	Norfolk	605
Moline	783	New York	728	Richmond	626
Peoria	748	Rochester	938	Roanoke	672
Rockford	851	Syracuse	882	WASH, Colville	664
Springfield	647	N.C, Asheville	615	Omak	---
IND, Evansville	824	Charlotte	508	Quillayute	565
Fort Wayne	844	Greensboro	590	Seattle-Tacoma	494
Indianapolis	767	Hatteras R.	600	Spokane	741
South Bend	749	Raleigh	589	Walla Walla U.	502
IOWA, Burlington	691	Wilmington	465	Yakima	530
Des Moines	684	N.DAK, Bismarck	925	N.VA, Beckley	387
Dubuque	819	Fargo	971	Charleston	727
Sioux City	752	Williston U.	825	Huntington	690
KANS, Concordia	605	OHIO, Akron-Canton	889	Parkersburg U.	725
Dodge City	644	Cincinnati U.	768	WIS, Green Bay	932
Goodland	751	Cleveland	894	Madison	864
Goodland	751	Columbus	761	Milwaukee	905
Topoka	579	Dayton	792	WYO, Casper	829
Wichita	533	Toledo	879	Cheyenne	868
KY, Lexington	687	Youngstown	956	Lander	789
Louisville	595			Sheridan	788
LA, Baton Rouge	192				
Lake Charles	182				
New Orleans	123				
Shreveport	279				

CROP PRODUCTION HIGHLIGHTS

CITRUS production is expected to total 14.9 million tons (13.6 million metric tons), down fractionally from last month, and 9 percent less than last season.

ORANGE production is forecast at 243 million boxes (9.46 million metric tons), 1 percent less than the March 1 forecast and down 11 percent from the 1979-80 season. As of the 1st of April, 60 percent of the U. S. orange crop had been harvested.

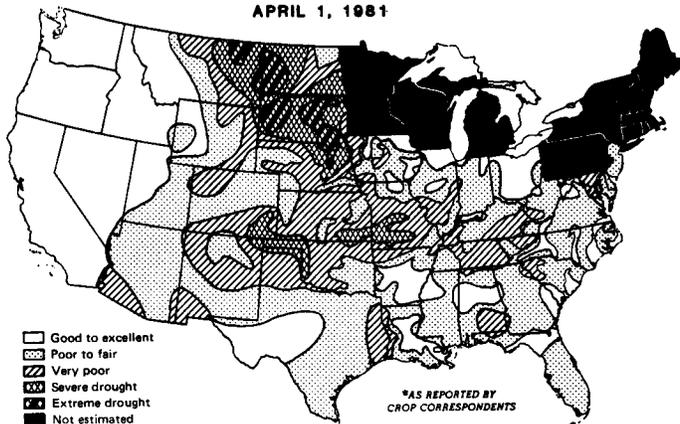
GRAPEFRUIT production is forecast at 67.3 million boxes (.249 million metric tons), 2 percent more than expected on March 1 but 8 percent less than harvested last season. By the 1st of April, 78 percent of the crop had been harvested.

LEMON production for California and Arizona is expected to be a record high 30.5 million boxes (1.05 million metric tons), up fractionally from March 1 and 47 percent more than last season's output. Lemon harvest was 64 percent complete as of April 1.

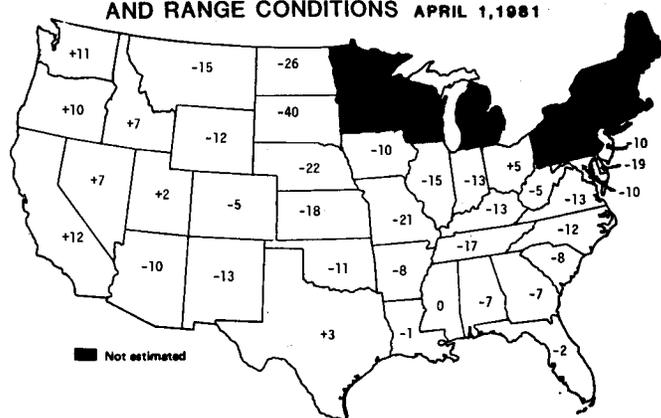
SPRING POTATO production is forecast at 21.1 million cwt (955 thousand metric tons), up 23 percent from last year's record low production, but 1 percent below the 1979 crop.

Preliminary reports from airport locations, except those marked U for urban and R for rural.
*Estimated.

PASTURE AND RANGE FEED CONDITIONS
APRIL 1, 1981



PERCENT DEVIATION FROM AVERAGE PASTURE AND RANGE CONDITIONS APRIL 1, 1981



*INDICATES CURRENT SUPPLY OF PASTURE FEED FOR GRAZING ON NON-IRRIGATED PASTURES AND RANGES RELATIVE TO THAT EXPECTED FROM EXISTING STANDS UNDER VERY FAVORABLE WEATHER CONDITIONS.

PASTURE AND RANGE FEED: Pasture and range feed condition in the 37 States reporting on April 1 averaged 67 percent, 10 points less than a year ago. Condition in the Dakotas, the eastern portions of Montana and Wyoming and the northeastern third of Nebraska are considerably below last season. Average condition in North Dakota is 44 percent, down 19 points from last year. In South Dakota condition at 31 percent compares with 75 percent a year ago. Wyoming, at 69 percent, is down 13 points from April 1, 1980. Condition in Montana at 63 percent and Nebraska at 55 is down 10 and 31 points, respectively. The drought which prevailed in these States last fall was further aggravated by lack of snow accumulation

over the winter. Some rain was received in late March but more rain is needed now that pastures have begun to green-up. In Kansas and Missouri, also hit hard by last year's drought, pasture condition was off 24 and 23 percentage points, respectively, from April 1 a year ago. In Idaho, Nevada, Utah and the Pacific States, pasture conditions generally range from good to excellent. Although the snowpack is short in these areas, some late winter and early spring precipitation was beneficial for early growth of grasses. In Texas, conditions have shown steady improvement throughout the month of March and on April 1 averaged 68 percent, up 13 points from a year ago. In nearly all other areas of the Nation, precipitation has been below normal and reported conditions are running well below those of a year ago.

National Agricultural Summary

APRIL 6-12, 1981

HIGHLIGHTS: Light precipitation which dotted the Great Plains sustained winter wheat growth. Soil moisture was still rated short to adequate in most areas of the United States except Wisconsin where heavy rainfall resulted in adequate to surplus moisture supplies. Farmers had 4 to 7 days suitable for fieldwork in all areas of the Nation except Wisconsin where only 2 days were suitable. Winter wheat rated fair to mostly good except in parts of Kansas where stands were poor to fair. Jointing extended as far north as Kansas. Wheat was heading across the South. Corn planting reached into the southern part of the Corn Belt; progress continued well ahead of normal. Cotton planting spread across the South from Arizona to South Carolina. Sorghum seeding was generally confined to Texas. Rice seeding was underway in all major producing States except California. Peach trees bloomed as far north as New Jersey. Pastures rated fair to good except in the Southwest, parts of Kansas and Missouri, and in the northern Plains where poor to fair conditions were reported. Cattle were in fair to good condition.

SMALL GRAINS: Winter wheat rated fair to mostly good throughout all major production areas, except for fields in southern and north central Kansas which rated only poor to fair. Greenbug infestations increased. Wheat development continued to surpass last year and the average in all States. Nearly 45% of the wheat in Kansas was jointing, compared with 5% a year ago and the average of 10%. Oklahoma wheat was 70% jointed, ahead of last year's 40% and the 65% average. In the Southern States, wheat was

heading; Texas winter wheat was 5% headed. Arizona wheat continued heading with some stands beginning to yellow; limited harvesting of a few early planted fields was underway. In northern areas of the Great Plains, winter wheat continued greening. Additional moisture would be beneficial. Pacific Northwest winter wheat rated good to excellent.

CORN: Corn planting began in extreme southern areas of the Corn Belt; Missouri planting reached 11% complete. Progress in all major producing States exceeded last year and average. Emerging plants in the South were in fair to good condition.

COTTON: Cotton planting spread across the South and was active from Arizona to South Carolina. Arizona planting was in full swing; early planted cotton had emerged. Texas planting was active in the Blacklands and neared completion in southern areas. For the State as a whole, planting was 16 percent completed. In California, preplanting fieldwork continued.

OTHER CROPS: Among the seven major producing States grain sorghum seeding was confined to Texas. Texas seeding reached 64% complete, surpassing last year's 61% and the 54% average. Planting was active on the Low Plains; most fields had emerged in the Blacklands. Rainfall was needed in all areas.

Rice seeding was underway in all major producing States except California. Acreage seeded was: Texas, 77%; Louisiana, 47%; Mississippi, 40%, and Arkansas, 7%. Soil preparation was active in California, but no rice was seeded due to wet fields.

Peanut planting was 5% complete in Georgia, 4% finished in Alabama, and 9% complete in Texas. Progress was slower than average in Georgia, but was on schedule in Texas.

Tobacco transplanting reached 72% complete in Georgia, 52% in South Carolina, and 6% in North Carolina. Plants were in fair to good condition.

FRUITS AND NUTS: Deciduous fruit trees began blooming in northern areas. Peaches bloomed in New Jersey. In Pennsylvania, some trees were in the pink pre-flowering stage. Apples began blooming in Virginia. Condition of Florida's irrigated citrus trees improved, but condition of nonirrigated groves was about the same as a week earlier. Rain is needed in all areas. Bloom was completed in most areas. The Valencia orange harvest continues slow.

Arizona citrus groves were in full bloom with new growth evident. The Valencia orange harvest was in full swing, grapefruit picking was seasonally slow, and the lemon harvest neared completion. Grapes and deciduous fruits made good growth.

California orchards and vineyards showed good fruit set and growth. The citrus and avocado harvest continued active.

VEGETABLES: Warm days and cool nights prevailed in Florida's vegetable growing areas. Irriga-

tion was used to offset the very dry condition. Total shipments increased 31% from the previous week. Only cauliflower, chinese cabbage, radishes, and strawberries declined.

Arizona's lettuce harvest neared completion in western areas, but was peaking in central growing areas. Harvest of other vegetables made seasonal progress.

California producers harvested artichokes, asparagus, broccoli, carrots, celery, cauliflower, lettuce, onions, and potatoes. Tomato planting continued active.

Texas producers continued planting of summer vegetables. Growers harvested cabbage, carrots, and onions.

Vegetable planting gained momentum throughout most southern States. In South Carolina, growers planted tomatoes, snap beans, cucumbers, and watermelons.

PASTURES AND LIVESTOCK: Pastures generally rated fair to good except in the Southwest, parts of Kansas and Missouri, and in the northern Plains where dry weather caused poor to fair conditions. Warm temperatures promoted growth of grasses across the South. Cattle were in fair to good condition. Calving and lambing continued with light losses of newborn reported.

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 ESS State offices in cooperation with the National Weather Service.

ALABAMA: Temperatures 3° above normal. Dry overall but northern counties.

Fieldwork: 4.2 days suitable. Soil moisture mostly adequate. Activity: Land preparation, planting, fertilizer and lime applications, care of livestock and poultry. Planting progress: Corn 60%, 19% 1980, 32% average; cotton 12%, 2% 1980, 9% average; peanuts 4%; sorghum 3%. Wheat headed 14%, 16% 1980. Wheat turning color 3%. Condition: Corn fair to good; wheat good; pasture and livestock mostly fair.

ARIZONA: Sunny, very warm weather prevailed except for cloudy conditions 12th. There were light showers, mainly over Mogollon Rim, White Mountains. Amounts ranged from traces in Deserts to over 0.25 in. in mountains. Average temperatures were 3 to 8° above normal.

Cotton planting in full swing. Early planted cotton in Yuma area establishing stands. Crop development average. Small grain growth good. Crop heading out most valley areas. Yuma area stands turning, limited harvest begun early planted fields. Sugarbeet quantity, quality good. Limited harvest to begin in 2 weeks in both Yuma and Pinal County areas. Alfalfa haying making good progress, 2d cuttings continuing western areas. Land preparation, planting sorghum, corn active. Lettuce harvest about over west, at peak central growing area. Mixed vegetable harvest making seasonal progress. Weeding, thinning, vine turning of cantaloups, watermelons active. Grapes, deciduous fruit putting on good growth. Valencia orange harvest in full swing. Grapefruit harvest slow but steady. Lemon harvest nearing completion. Citrus groves in full bloom, new growth visible. Ranges poor to fair. Livestock fair, water supplies short to adequate.

ARKANSAS: Warm week, light precipitation. Highest temperature 86°, lowest 26°. Most rainfall 0.82 in., least zero. Departures ranged from +11 to +40.

Rice planting 7% complete, 5% 1980, 9% average. Cotton planting underway in southeast. Corn

planting 25% complete, less than 5% 1980, 26% average. Wheat condition good, development at or past jointing stage. Six days available for fieldwork. Soil moisture supplies short. Forage supplies on pasture average. Livestock condition good.

CALIFORNIA: Almost no rain and temperatures were above normal. The San Joaquin Valley and southern Deserts were 2° above normal. Only the Central Coast was below normal. A large high pressure area dominated with sunny and mild days and cool nighttime temperatures. Some strong drying northerly winds late in period.

Rice soil preparation active, no planting as yet. Fields still too wet. Cotton fields being pre-irrigated with preplant herbicides being applied. Sugarbeets doing well. Small grains crops showing visible head development, Alfalfa hay being cut. Field corn planting very light. Frost protection measures taken in some northern counties. No frost damage reported. Good fruit set and growth in most orchards and vineyards. Harvest of citrus and Bacon avocados continued. Artichoke supply heavy Salinas-Watsonville. Asparagus full swing Delta, finished Desert. Broccoli good supply Central Coast. Carrots active Desert. Celery active Oxnard. Cauliflower heavy Salinas-Watsonville. Lettuce strong Westside, Kern peaks this week. Onion grading increasing Desert. Kern potatoes underway, increasing. Sweetpotato fumigation active. Tomato planting active, Desert market tomatoes available May. Range pasture good. Calving, lambing active mountain areas. Stock water adequate.

COLORADO: Precipitation mostly limited to northern half on 7th and 8th. Mountains and west averaged 0.30 in. Around 0.10 in. in the Platte Basin with negligible amounts elsewhere. Temperatures 2 to 5° above normal San Luis Valley and east but near normal mountains and west.

Corn planted 0%, 0% 1980 and 0% average; barley planted 54%, 9% 1980 and 24% average; barley

emerged 21%, 2% 1980 and 6% average; oats planted 56%, 6% 1980 and 20% average; onions planted 54%; sugarbeets planted 30%, 1% 1980 and 15% average; spring wheat planted 31%, 6% 1980; winter wheat pastured 13%, 9% 1980; winter wheat jointed 5%. All crops in good condition. Livestock in good condition; ranges and pastures fair condition. Fieldwork: 4.3 days suitable.

FLORIDA: Very dry conditions continued with warm days and cool nights. Blocking high pressure persisted over the State throughout the period. Brisk easterly winds predominated most of the week, especially along the East Coast. Little or no rain reported. Temperatures averaged near normal, north; 2 to 5° above normal, south.

Soil moisture mostly adequate Panhandle and upper north, short in north central, central and south. Corn good condition. Tobacco transplanting continues. Peanut planting underway central area, land prepared other areas. Land preparation underway for soybeans. Sugarcane good condition. Wheat heading. Pasture poor to fair. Cool nights and lack of moisture slowing growth. Cattle fair to good. Irrigated citrus trees show improvement. Nonirrigated groves progressing slowly, rain needed all areas. Bloom completed most areas, Valencia harvest continues slow due to higher than normal acid levels. Warm days, cool nights prevailed in vegetable areas. Very dry conditions continue with little or no rainfall. Irrigation active. Brisk winds prevailed most of week, especially along the East Coast. Total shipments up 31% from previous week. Harvest gained snap beans, carrots, celery, sweet corn, cucumbers, eggplant, lettuce, okra, peppers, potatoes, and tomatoes. Supplies about steady cabbage, escarole, parsley and squash. Volume declined cauliflower, chinese cabbage, radishes and strawberries. Commercial strawberry harvest still active Hillsborough-Manatee. Season lasting longer than expected. Watermelon crop condition mostly fair to good. Very light scragging underway in a few early fields. Harvest expected to get underway last week of April.

GEORGIA: Rainfall less than 0.10 in. southeast and less than 0.25 in. central, 1.00 to 1.25 in. in some northern counties. Bulk of rain fell 12th. Scattered showers extreme north 9th. Coolest temperatures midweek, quite warm early and late in week. Average near normal south, 4 to 6° above north. Eleventh and 12th weather dry and warm. No rain reported. Temperatures averaged near 70°.

Soil moisture adequate. Five days suitable for fieldwork. Corn 84% planted, last year 38%, average 69%. Condition of emerged fields continued fair to good. Tobacco 72% transplanted, 47% last year, 78% average, fair to good condition. Watermelons 74% planted, last year 43%, average 75%. Condition mostly fair to good. Cotton 14% planted, 3% last year, 28% average. Condition fair to good. Peanuts 5% planted, last year 2%, average 13%, fair to good condition. Sorghum 5% planted, 2% last year. Vegetables in fair to good condition. Small grains in fair to mostly good condition. Peaches and apples in fair to mostly good condition. Sprays continue to be applied to pecan and fruit trees. Pasture, cattle and hogs reported in fair to mostly good condition. Fertilizing pasture and crop land.

HAWAII: Weather favorable. Rains continue to fall keeping soil moisture adequate in most growing areas. Crop progress fair to good. Plant conditions improving. Vegetables: Supplies increasing. Cucumber harvest peak. Eggplant production heavy. Shipments of Chinese cabbage to U.S. Mainland in progress. Bananas: Production declining. Rains beneficial. Papayas: Shipments increasing. Another flush occurring. Rains beneficial. Pineapples: Harvesting becoming more frequent. Sugar: Activities up on all

plantations. Pastures: Generally fair to good. Rains beneficial.

IDAHO: Precipitation below normal at most stations except northern region. Temperature averaged 2 to 6° below normal. Moderately strong winds during the mild days and cool nights.

Spring wheat planted 40%, 34% 1980, 26% average. Spring barley 34%, 24% 1980, 22% average. Sugarbeets 42%, 34% 1980, 32% average. Dry peas 24%, 8% 1980, 16% average. Lentils 14%, 6% 1980, 16% average. Onions 48%, 48% 1980, 66% average. Potato planting just beginning, 5%. Calving 77% complete, lambing 84% complete. Shearing active. Four days suitable for fieldwork.

ILLINOIS: Temperatures 7 to 12° above normal. Precipitation northern half heavy, 1.00 to 2.70 in., elsewhere amounts ranged 0.10 to 0.20 in.

Winter wheat condition 16% excellent, 76% good, 8% fair. Corn planting 1% complete, 0% 1980, 1% average. Oats seeding 94% complete, 16% 1980, 42% average. Alfalfa condition 5% excellent, 77% good, 18% fair. Pasture 1% excellent, 54% good, 42% fair, 3% poor; supplying 38% roughage requirements livestock, 17% 1980, 29% average. Soil moisture 14% adequate, 86% short. Fieldwork: 5.5 days suitable.

INDIANA: Warm, wet week. Temperatures averaged 9° above normal and ranged from 28 to 83°. Rainfall 1.50 in. north, 1.70 central, 0.70 south. Four week totals 0.60 to 1.90 in. below normal. Sunshine 58% of possible. Four-inch soil temperatures 47 to 53°.

Fieldwork averaged 4 days. Topsoil moisture short to mostly adequate. Subsoil moisture short. Spring crop land 90% plowed, 1980 50%, average 60%. Oats 90% seeded, 1980 5%, average 40%. Corn 1% planted, 1980 0%, average 0%. Wheat fair to mostly good. Wheat 7 in. high, 1980 4 in., average 4 in. Wheat 15% jointed, 1980 5%, average 5%. Pastures fair to good.

Southern Indiana: Four days suitable for fieldwork. Topsoil moisture adequate. Subsoil moisture mostly short to adequate. Spring planted crop land 85% tilled, 1980 44%, average 53%. Corn 2% planted, 1980 0%, average 0%. Oats 85% seeded, 1980 8%, average 49%. Wheat fair to good condition. Wheat 8 in. high, 1980 5 in., average 6 in. Wheat 25% jointed, 1980 30%, average 5%. Pasture condition fair to good.

IOWA: A mild week with mid- and late-week showers varying from sprinkles in westernmost counties to localized flooding southeast.

Topsoil moisture: 48% short, 47% adequate, 5% surplus. Subsoil moisture: 49% short, 50% adequate, 1% surplus. Plowing: 91% complete, last year 56%, normal 63%. Oat acreage planted: 97% complete, last year 23%, normal 44%. Corn acreage planted: less than 1% complete. For fieldwork: 4.8 days suitable. Crop conditions: Pasture, fair to good; winter wheat, fair to good; alfalfa hay, fair to good. Livestock in excellent condition.

KANSAS: Precipitation limited 0.25 in. to 0.75 in. northeast and north central, less than 0.25 in. southeast and east central. Temperatures averaged 58° northwest to 67° southeast, south central and northeast and 10 to 15° above normal.

Pasture and range feed short except northeast. Pasture condition ranges fair to good west central, very poor to severe drought southeast. Wheat poor to fair southwest, north central, south central, and southeast, good elsewhere. Greenbug infestations severe south central and southeast, light to moderate elsewhere. Wheat 45% jointed, 5% last year, 10% average. Barley and oats seeding 98% complete. Corn planting 10% complete, 0% last year and 4% average. Fieldwork: 6.5 days suitable.

KENTUCKY: Temperatures averaged 8 to 10° above normal with highs in low 80's over weekend. Nearly all stations received rain with totals of 0.10 to over 1.00 in. of rain in scattered thunderstorms over week.

Topsoil moisture adequate for plant growth and seed germination, subsoil moisture short. Corn 8% planted, none last year, average 4%. Tobacco plants up in 50% of beds, most plants size of dime or less. Small grains in good condition. Garlic a problem in many wheat fields. Wheat jointing. Fruit trees and strawberries blooming. Alfalfa weevil causing damage to alfalfa hay fields.

LOUISIANA: Rainfall: average 0.01 in north central, none elsewhere. Temperatures: 4 to 6° above normal north, 1 to 4° above normal south.

Soil moisture short to adequate. Fieldwork: 6.0 days suitable. Spring plowing 80% complete, 45% 1980. Corn planted 69%, 32% 1980, 50% average; emerged 53%. Rice planted 47%, 40% 1980, 41% average; emerged 32%. Sugarcane condition fair to good. Wheat condition good. Pastures, livestock fair to good. Supplemental feeding continues in a few parishes. Vegetables fair to good. Strawberry harvest continues, quality good.

MARYLAND AND DELAWARE: Temperatures averaged 7° above normal. Highs in the upper 60's to low 70's, lows in the high 40's to low 50's. Precipitation ranged 0.17 to 1.30 in.

Soil moisture supplies short to adequate. Pastures provide limited to adequate feed. Small grains improved; barley and oats fair to good, wheat and rye good. Tobacco beds 98% seeded. Vegetable plantings increasing. Peaches in full bloom. Limited frost damage to fruit.

MICHIGAN: Average temperatures ranged 6 to 9° above normal. Moderate to heavy precipitation Lower Peninsula replenished much of moisture deficit. Precipitation northern Lower 0.90 to 1.00 in., central Lower 1.10 to 2.00 in., southern Lower 1.60 to 1.95 in., Upper 0.30 to 0.35 in.

Fieldwork active until weekend. Planting progress ahead of normal. Oats two-thirds planted Sugarbeets one-third planted. Corn planting just started. Localized planting of onions and early vegetables. Soil moisture supplies mostly adequate after weekend rains.

MINNESOTA: Temperatures averaged 3 to 7° above normal north, 8 to 10° above normal south. Extremes 76° Browns Valley, 17° at Hallock. Precipitation averaged 0.10 to 0.25 in. below normal northeast and southeast, 0.25 to 0.45 in. below normal elsewhere. Precipitation totals 0.25 to 0.45 in. northeast and southeast, trace to 0.25 in. elsewhere. Driest, northwest with 0 to 0.02 in. total.

Fieldwork more widespread as warm weather continued. Farmers busy in west and south. Some frost still in ground in areas. Winter wheat and winter rye in fair to good condition. Hay and pasture moisture mostly fair. Some heavy winter damage to hay in southeast. Topsoil moisture rated 43% short and 57% adequate. Farmers working fields in northwest to prevent soil movement. Strong winds west central drying soil. Fields in southeast very wet. Planted: Spring wheat 38%, 1980 0%, normal 11%; oats 31%, 1980 0%, normal 11%; barley 19%, 1980 0%, normal 4%; sugarbeets 9%, 1980 0%, normal 0%; green peas for processing 6%, 1980 0%, normal 3%. Ground prepared: Field corn 9%, 1980 0%, normal 3%; soybeans 6%, 1980 0%, normal 0%.

MISSISSIPPI: Temperatures averaged 1 to 11° above normal. Extremes: 31 and 88°. Scattered thundershowers extreme northern counties during midweek. Remainder of State little to no rain.

Soil moisture adequate. Fieldwork: 4.6 days suitable. Plowing 80% completed. Corn 50% planted, 25% last year, 34% average; condition good to fair. Rice 40% planted, 20% last year. Cotton 3% planted, 1% last year. Winter wheat 90% jointing, 78% last year; 20% headed, 8% last year; condition good. Watermelons 66% planted, 31% last year. Pasture and livestock condition good to fair.

MISSOURI: Warm temperatures and scattered thunder-showers were reported during the week. Temperatures averaged 5 to 8° above normal. Rainfall amounts averaged from 0 to 1.00 in.

Fieldwork: 6.0 days suitable. Plowing 84% complete, last year 54%. Oats 24% seeded, last year 26%. Corn 11% planted, last year 1%. Condition of winter wheat fair to good. Condition of pasture poor to fair. Topsoil moisture supplies short.

MONTANA: Very little precipitation over most of area east of the Divide. Some areas in southwest and west had moderate to heavy amounts first of week. Most mountains received significant snow in frequent storms. Temperatures were again quite mild and averaged about 3° above normal in north central, northeast, and southeast. In west temperatures averaged about 2° below normal. Highest 73° at Roundup, lowest 1° at Cooke City.

Topsoil and subsoil moisture eastern third of State, adequate northwest; short to adequate elsewhere. Fieldwork: 4.0 days suitable. Winter wheat condition generally fair to good, growing slowly most areas. Planting progress continued slow due to cool nights and high winds. Spring wheat, oats and barley about 15% seeded. Calving 70%, lambing 65%, shearing 70% complete. Many ranges and pastures growing but very slowly. Stockwater supply short to adequate east to Divide, adequate west.

NEBRASKA: Precipitation widespread with greatest amounts in western half of region. Temperatures 9 to 13° above normal.

Winter wheat fair to good. Corn planting 1%, 0% last year, 0% normal. Oats seeding 85%, 20% last year, and 40% normal. Sugarbeet planting active; first fields emerging. Alfalfa mostly fair; army cutworm activity widespread in northeast and also present in central and east central fields. Pasture and range feed supplies mostly short. Livestock weight gains good. Topsoil moisture mostly short to adequate. Subsoil moisture mostly short. Fieldwork: 6.4 days suitable.

NEVADA: Variable cloudiness with gusty daytime winds occurred throughout week. Few light, scattered showers recorded north. Temperatures averaged 2 to 3° above average. Extremes: 87 and 11°.

Winter grains beginning to show growth. Calving, lambing showing normal progress.

NEW ENGLAND: Temperatures averaged 4 to 8° above normal with the warmest temperatures on the 9th and 10th. Rainfall on the 6th and 10th totaled 0.50 to 0.75 in.

Maple sugaring continues only in the northern extremes and higher elevations.

NEW JERSEY: Temperatures averaged 2 to 4° above normal. Extremes: 25° at Pomona on 7th and 74° at Toms River on 11th. Rainfall averaged 0.48 in. north, 1.13 in. central and 0.85 in. south. Heaviest 24 hour total was 1.03 in. at Trenton on 11th to 12th. Estimated soil moisture, in percent of field capacity, averaged: 98 north, 96 central and 97 south. Four inch soil temperature averaged: 49 north, 53 central and 55 south. Total sunshine at Trenton from April 6 to 12 was 54% of possible hours.

Topsoil moisture good. Water table levels continue low, however. Soil preparation and planting continue as conditions permit. Peaches blooming in south. Hay and pasture growth increasing. Fall seeded grain making growth. Spring oats planting well advanced.

NEW MEXICO: Mostly dry with temperatures averaging 4 to 8° warmer than normal.

High winds continuing to deplete soil moisture and causing some blowout of grains. Land preparation and pre-irrigating for cotton continuing active. Some early planting occurring in the south. Alfalfa fields continued in mostly good condition. Some insect problems occurring. Some early fields already being cut for hay. Winter wheat, barley in good condition. Some of the dryland crop in poor condition. Jointing underway in major producing areas. Planting of corn starting to increase in activity. Lettuce and onions in good condition. Chile planting 50% completed with some early fields beginning to emerge. Ranges mostly poor condition. Livestock in fair to good condition with supplemental feeding continuing.

NEW YORK: Temperatures averaged 5 to 10° above normal, ranging from the mid 40's to the mid 50's. Scattered showers and a few thunderstorms produced 0.25 to 0.75 in. of rainfall in most areas while precipitation remains below normal.

Early spring fieldwork ahead of normal.

NORTH CAROLINA: Temperatures 1 to 3° above normal. Precipitation below normal.

Fieldwork: 4.8 days suitable. Soil moisture: 4% very short, 52% short, 44% adequate. Conditions: Wheat, oats, barley and rye fair to mostly good; tobacco plant beds fair to mostly good; Irish potatoes fair to mostly good; pasture fair to mostly good, improving; peaches mostly good; truck crops fair to mostly good; tobacco plant supply adequate. Plantings: Corn 51%, 1980 26%, 31% average; Irish potatoes 95%; sorghum 38%, 1980 1%; flue-cured tobacco 6%, 1980 3%; cotton underway. Major activities: Preparing land for spring planting, caring for tobacco plant beds, spraying fruit trees, and preparing home gardens.

NORTH DAKOTA: Temperatures 3 to 7° above normal. Averages from 40° north central to 46° east central and southeast. Extremes: 71° south to 10° northeast. Precipitation averaged 0.12 to 0.39 in. below normal.

Small grain seeding underway. Many waiting for additional moisture. Good progress in general fieldwork with an average of 6.2 days suitable for fieldwork. Scattered rain and snow did not significantly improve moisture conditions. Currently 53% of State short of topsoil moisture. Strong winds aggravated moisture shortage and continued soil erosion problems. Percents seeded with last year and average: Hard red spring wheat 14, 1, 2; durum wheat 4, less than 1/2, 1; oats 8, less than 1/2, 2; barley 9, less than 1/2, 1. Sugarbeet planting 10% complete.

OHIO: Average temperatures well above normals, and summerlike weather dominated. Spotty showers and thunderstorms. Average temperatures were 7 to 9° above normal. Highs were in the 70's in the central and north and the low 80's in the south. Below freezing readings were reported on the 7th, but a rapid and strong warm-up followed. Precipitation was widespread, but totals were spotty. They ranged from just under 0.50 to over 2.50 in. at Mansfield. Most areas had totals from 0.50 to 1.50 in.

Winter wheat in good condition. No heaving reported. Spots of winterkill in southwest and west central, where there was little snowcover. Pastures improved and hay came out of dormancy. Both rated good. Many farmers planted corn, but

limited themselves to planting small acreages. Corn planted 1%, 0% 1980, 0% average. Tobacco beds sown 85%, 45% 1980, 60% average. Potatoes planted 10%, 0% 1980, 10% average. Oats planted 70%, 2% 1980, 25% average. Sugarbeets planted 60%, 1% 1980, 10% average. Days favorable for fieldwork: 4.5. Pasture condition good. Soil moisture 47% short, 52% adequate, 1% surplus.

OKLAHOMA: The week started mild and finished on a warm note. Rains were spotty and of the showery variety falling mainly in the central portions. Rainfall amounts ranged from none to just over 0.50 in. of much needed rain in the west central division. Temperatures averaged well above normal and ranged from 8° on the high side in the south to 11° above in the north.

Scattered rains temporary relief wheat and other small grains. More precipitation needed. Statewide, wheat fair to good condition. Wheat jointing: 70% 1981; 40% 1980; 65% average. Days suitable for fieldwork: 6.3.

OREGON: Cool, unsettled weather dominated area. High averages were 5 to 10° below normal. Most rain fell along coastal and northern portions of State. Rainfall amounts were 0.50 to almost 3.00 in. Northern Cascades received generous amounts of much needed snow. Additional rain, snow and cool temperatures continued through weekend.

Soil moisture supplies adequate to mostly surplus west, adequate east. Winter wheat condition good to excellent. Alfalfa and legumes beginning to grow. Cutworms showing in some mint fields. Other activities: Plowing, spraying, fertilizing, spring seeding as weather permits. Pollination weather unfavorable for fruit crops. Bloom moving slow due to cool weather. Frost control measures used in Malheur County. Sprays being applied. Caneberries leafing out. Heavy leafroller activity in filberts. Potatoes continue to go in. Onions up in east, still not planted in west. Green peas still going in. Livestock, range and pasture condition good. Cool weather slowing up growth.

PENNSYLVANIA: Typical unsettled April weather most of week although temperatures averaged 4 to 8° above normal but several degrees cooler than previous week. Daily highs mostly 50's to 70's and lows 30's to 50's. Extremes: 80 and 16°. Rainfall last five days totaled 0.50 in. northeast to near 4.00 in. Laurel Mountains with 1.00 to 2.00 in. common elsewhere.

Four days suitable for fieldwork. Soil moisture short to adequate. Activities: Fence repair; plowing and discing; spreading manure, fertilizer, and lime; seeding oats and forage crops; pruning fruit trees. Plowing 41%, last year 8%. Oats 36% planted, 30% ahead of last year. Potatoes 13% planted compared with less than 5% last year. Tobacco beds under 5%, same as last year. Corn less than 5% planted, same as last year. Wheat and barley 100% pre-boot. Hay stand conditions fair to good. Peaches 17% pink, cherries 10%, apples under 5%.

PUERTO RICO: Island average rainfall 2.03 in. or 1.10 in. above normal. Highest weekly total 4.80 in. Temperatures averaged about 79 to 78° on Coasts and 73 to 72° Interior Divisions. Extremes: 91 and 50°.

SOUTH CAROLINA: Cooler temperatures first half of week but considerably warmer last half with high of 90°. Week dry except scattered showers on 9th.

Corn planting 85% complete, well ahead of last year's 21% and 62% average. Some corn replanted. Cotton seeded 12%, average 17%. Tobacco transplanted 52%, last year 16%, average 39%. Peach condition fair to good; no severe damage from earlier cold weather. Small grains condition good but in need of additional moisture, some early maturing reported. Vegetable condition fair to

good. Tomatoes 94% planted, last year 86%. Snap beans 81% planted, last year 73%. Cucumbers 65% planted, last year 58%. Watermelons 68% planted, last year 46%, average 69%.

SOUTH DAKOTA: Above normal temperatures continue. Average temperatures 5 to 10° above normal. Extremes: 83 and 13°. Light precipitation over most of the State.

Fieldwork in full force, 5 to 6 days suitable. Soil moisture adequate in east except for the southeast corner, critical in northwest extending through west central. A band of short topsoil moisture cuts through center of State to the southwest. Farm activities: Field preparation, small grain seeding, calving, and lambing. Winter wheat and rye in good condition. Livestock in good condition. Feed and water supplies mostly short. Adequate feed only in extreme east. Pastures, east fair condition, poor, west. Calving 51% completed; lambing 71% completed. Little death loss. Oats seeded 53%, 1980 7%, average 16%. Barley seeded 51%, 1980 5%, average 12%. Spring wheat seeded 56%, 1980 11%, average 16%. Corn planted 0%, 1980 0%, average 0%.

TENNESSEE: High pressure brought dry weather with southerly winds during early week. Cold front brought rain 9th. Temperatures averaged from 5° above normal east to 10° above normal west. Rainfall amounts averaged 0.75 in.

Fieldwork: 3.4 days suitable. Soil moisture mostly adequate. Spring plowing 75% complete, 1980 45%, average 55%. Tobacco plantbeds 98% seeded, 1980 83%, average 90%. Pastures 5% poor, 72% fair, 23% good. Wheat and oats fair to good. Corn 15% planted, 1980 4%, average 8%. Cotton planting has begun on a limited scale. Tent caterpillars infesting fruit trees. Cattle good, most remain on feed.

TEXAS: Weather: Cold front stationary over Panhandle-South Plains during early week. Midweek front turned dry line; thunderstorms developed dry line afternoon hours portions West Texas Plains to northwest Texas latter half week. Temperatures 3 to 11° above normal; ranged from near 80 North Central Texas to mid 70's Upper Texas Coast. Precipitation below normal; ranged from 0.10 in. Trans-Pecos to 1.00 in. East Texas.

Commercial vegetables: Lower Rio Grande Valley harvest of carrots, onions continued. Supplies of cabbage decreased slightly. Onions progressing well. Watermelon vines running. Harvest of late oranges continued. Coastal Bend watermelons, cucumbers continued to progress, need of rain. San Antonio-Winter Garden area, harvest of carrots continued. Tomatoes, watermelons, onions progressing well. East Texas planting of tomatoes, peppers continued. Sweetpotato bedding resumed. Buildup of insects. North Texas insects building. Tomatoes, peppers, onions doing well. Trans-Pecos region onions, tomatoes continue to develop, moisture needed. On the High Plains producers setting onions, seeding potatoes. Peach trees leafing out, much leaf curl. Fruit beginning to set. Pecan trees continue to bud, many trees leafing out.

Crops: Dry, windy conditions continued to deplete topsoil moisture. Planting spring crops continued without interruption. Some replanting necessary. Need for moisture became more evident as small grain began to head. Cotton planting became active in Blacklands and nearing completion southern areas. Land preparation, applying fertilizer, herbicides and preplant irrigation underway on High and Low Plains. Sorghum planting active on Low Plains. Most planted fields emerged Blacklands. Cultivation underway in South Central Texas, southward. Rainfall needed all areas. Corn planting gained momentum on the High Plains. Planting nearing completion in

Blacklands and southern areas. Development slowed by cool night temperatures. Small grain fields continue to head out. Some greenbugs present, but damage diminishing. Reported wheat condition Statewide: 11% excellent; 33% good; 43% fair; 11% poor; and 2% failure. Peanut planting continued South Texas. Rice planting advanced at fast pace. Sugarbeet planting continued.

Range and livestock: Warm temperatures promoted growth of grasses, weeds. South Texas, North Central Texas, ranges, pastures providing good grazing, livestock good to excellent condition. Plains, North Texas, high winds depleted soil moisture, grazing remains short.

Cotton planted 16%, 13% 1980, 13% average. Rice planted 77%, 64% 1980, 62% average. Sorghum planted 64%, 61% 1980, 54% average. Wheat headed 5%, 3% 1980. Corn planted 49%, 43% 1980, 39% average. Peanuts planted 9%, 3% 1980, 9% average. Sugarbeets planted 60%, 57% 1980, 70% average.

UTAH: Scattered shower and thunderstorm activity forepart of period and again over weekend. Accumulated amounts moisture generally light to moderate. Average temperatures continue variable, ranging from 4° below normal to 5° above. Soil moisture conditions improved locally during period on dryland farms and ranges.

Land preparation in progress: Plowing, discing, leveling, alfalfa furrowing. Spring grain drilling in progress in most southern and central counties. Seven days available for fieldwork in most sections except northern areas where scattered showers 11th and 12th caused some delays. Irrigation water in canals and ditches. Some alfalfa fields received the first irrigation. Winter wheat fields greening up, 2 or 3 in. high in a few fields where scattered showers have improved soil moisture. Stands appear normal. Range feed greening up. Livestock on winter and early spring ranges finding some grazing.

VIRGINIA: Seasonal temperatures first of period, warming to well above normal by end of period. Average temperature was in upper 50's which was a few degrees above normal. Extremes: 19 and upper 80's. Rainfall was moderate for the week averaging about 0.50 in. occurring on 6, 9, and 12th.

Light showers improved soil moisture slightly, but still rated short to adequate. Fieldwork: 4 days suitable. Corn planting progress at 16%, 10% 1980, 15% average. Tobacco plant beds 91% seeded, 93% 1980. Potatoes planted 88%, 75% 1980; Eastern Shore virtually complete, well ahead of last year. Apples and peaches in excellent condition; peaches blooming. Apples beginning to bloom. Pastures in good condition, improving. Wheat in excellent condition.

WASHINGTON: West: Temperatures averaged slightly below normal. Precipitation well above normal. Farm activity minimal. Some harvesting cauliflower. Berry crops good condition. Some pastures too wet for use.

East: Temperatures averaged 5 to 8° below normal. Precipitation below normal Central Basin, Okahogan area, a little above normal elsewhere. Crop development slowed. Some freeze damage to stone fruits, cherries feared. Frost protection necessary in orchards. Asparagus cutting beginning. Potato seeding underway. Spring grain planting slowed. Diseases showing in fall seeded grain; serious in areas. Soil moisture good. Irrigation water available most areas.

WEST VIRGINIA: Temperatures averaged 5° above normal. High 83°, low 14°. Precipitation below normal in northwest, southwest and northeast, near normal in north central, central and south.

Soil moisture adequate to short. Days worked: 4.4. Main activities: Plowing, gardening, fence-

ing. Wheat, barley, oats and apples all in good to fair condition. Pasture and peaches in fair condition. Freeze damage light to none. Live-stock fair condition. Seed and fertilizer supplies adequate.

WISCONSIN: Temperatures averaged 8° above normal. Highs varied from 50's to 70's, lows teens to 50's. Extremes: 75 and 14°. Rainfall heavy south where 2.00 to 3.00 in. fell. Most coming in thunderstorms evening 8th and 10th. Amounts decreased to the northwest where some areas had only 0.10 in.

Rains limited fieldwork, only 2 days suitable. Oats 20% planted, 1980 less than 1%, normal 4%. Many farmers done seeding oats south but little elsewhere except on light soils. Early seeded oats emerged. Alfalfa being direct seeded. Hay fields greening and showing early growth. Winter wheat looks good south. Spring plowing 13% done, 1980 less than 1%, normal 4%. Corn ground being

prepared south. A few early potatoes and peas planted. Tobacco beds being steamed. Maple season completed. Soil moisture adequate to surplus.

WYOMING: Most stations reported above normal temperatures except Big Horn Drainage. Highest temperature 74° at Redbird. Lowest temperature 10° at Torrington. Precipitation below normal entire State except few stations Upper and Lower Platte Drainages.

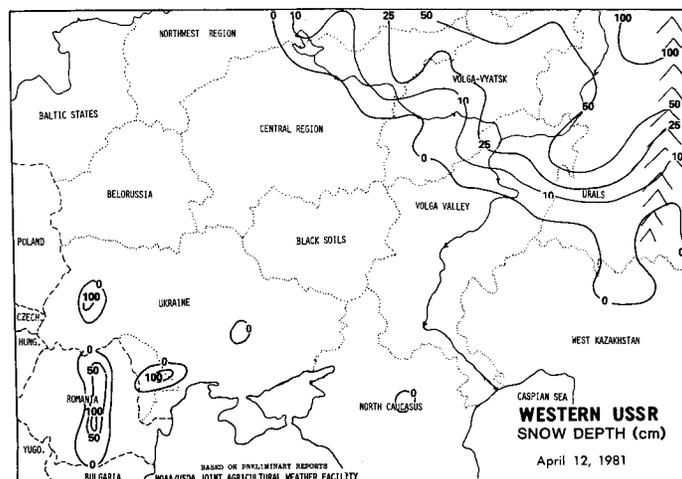
Topsoil moisture short in 79% of State. Average 5.0 days suitable for fieldwork. Acreage planted: Spring wheat 20%; oats 20%, barley 50%; sugarbeets 15%. Current prospects alfalfa fair to good. Winter wheat fair to good condition. Spring calves born 60%. Range ewes lambled 40%. Farm flock ewes lambled 75%. Sheep shorn: Range 45%; farm flock 75%. Ranges and pastures mostly fair condition.

International Weather and Crop Summary

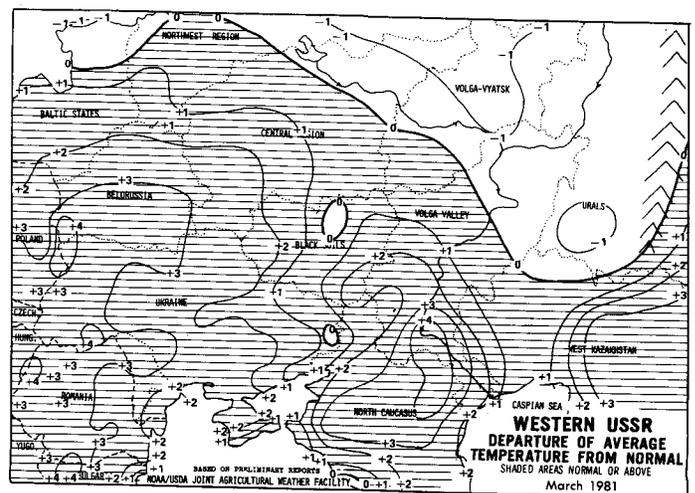
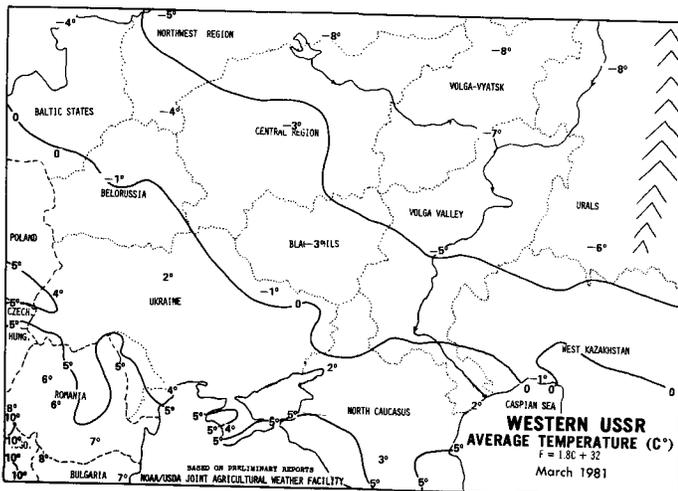
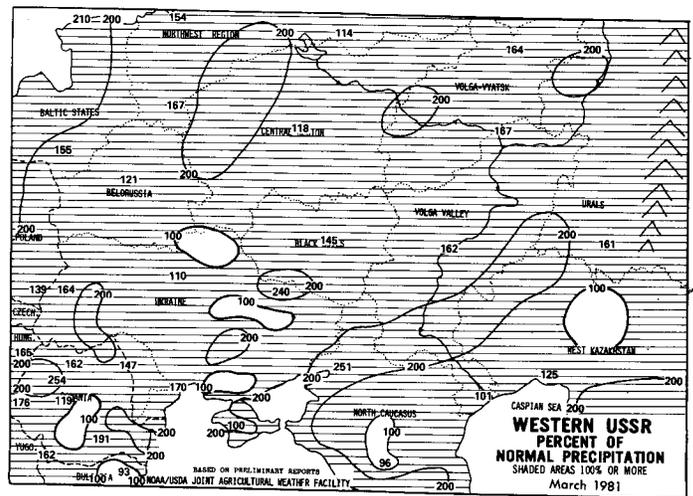
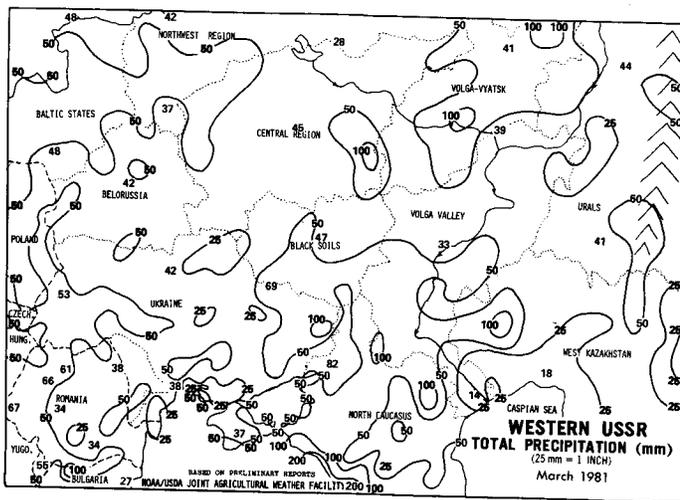
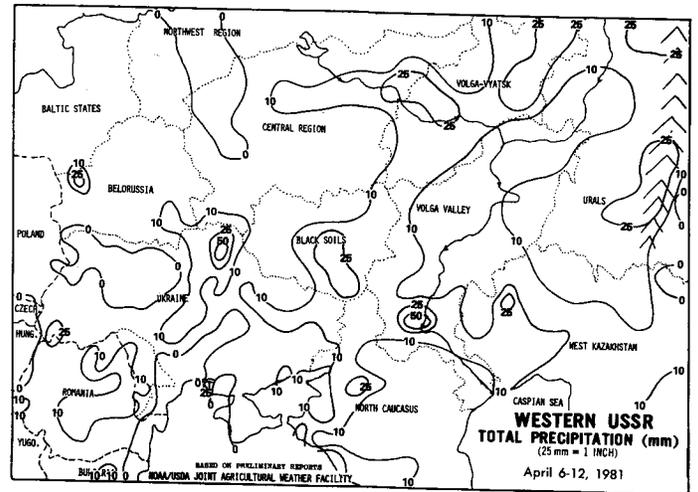
April 6-12, 1981

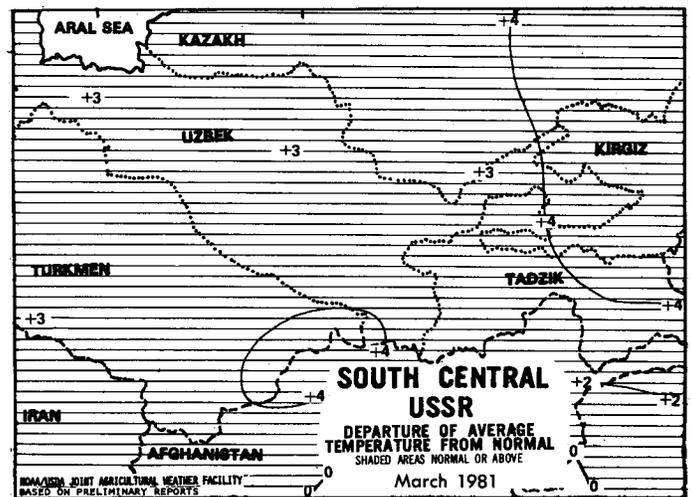
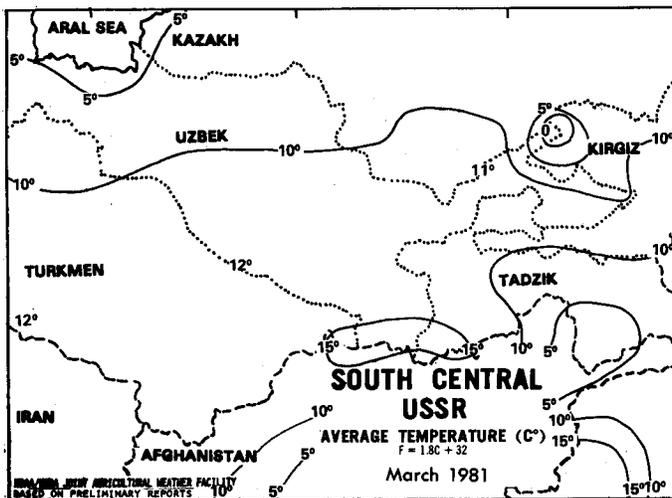
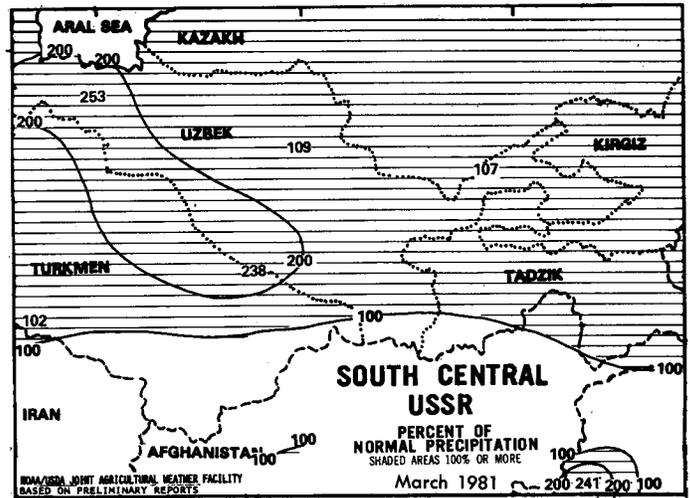
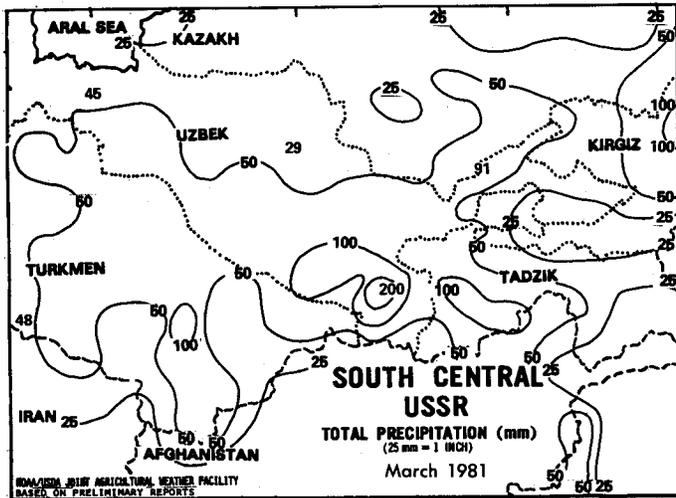
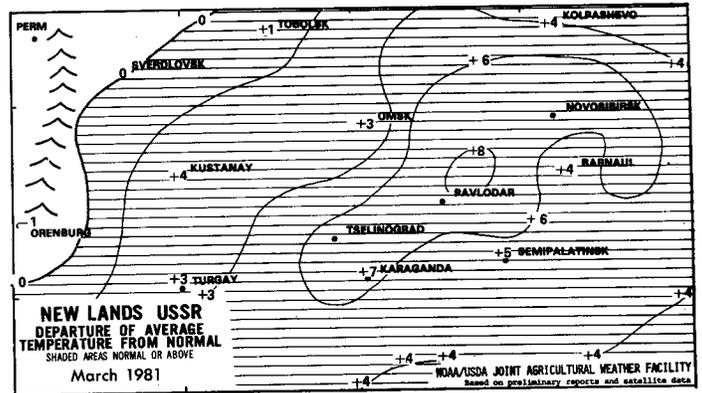
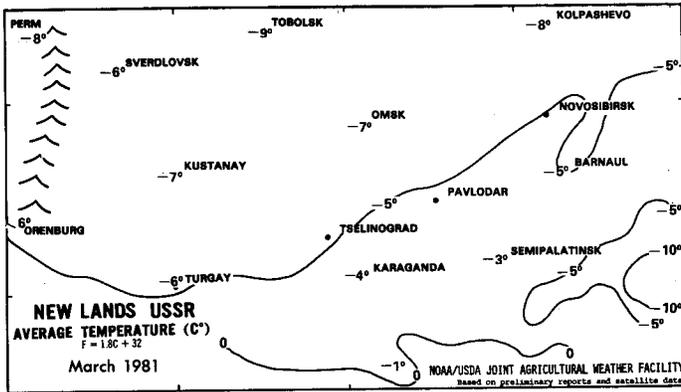
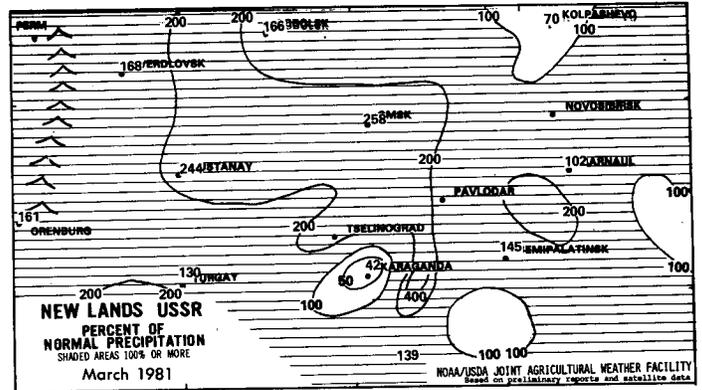
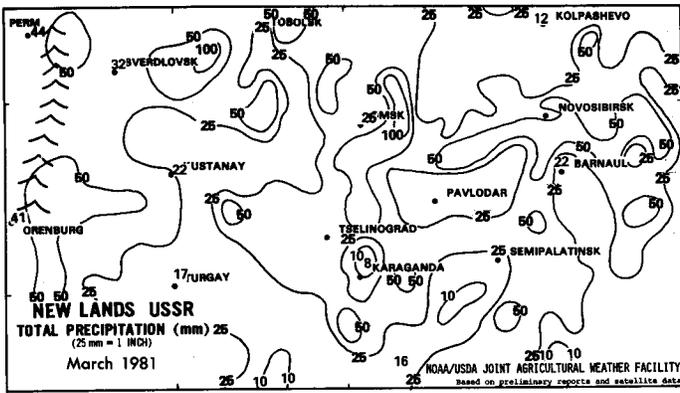
HIGHLIGHTS

- USSR: Soil moisture conditions were favorable in most agricultural areas. Fieldwork progressing ahead of normal.
- EUROPE: Good growing conditions prevail in nearly all countries. Subsoil moisture short in Portugal, northern Spain, and Italy with dry conditions persisting in southern Spain.
- NORTHWESTERN AFRICA: Little or no rain fell. Winter grain yield prospects average in Tunisia and Algeria, fair in northern Morocco, and poor in southern Morocco.
- SOUTH AFRICA: Dry weather again suggests the retreat of the wet season as the corn crop approaches maturity. Conditions remain favorable for high yields.
- SOUTH ASIA: Drier weather improved harvest conditions in northern India and Pakistan. Beneficial rain continued in Bangladesh and eastern India.
- CHINA: Heavy rains caused flooding in the south. Somewhat dry conditions increased irrigation needs of winter grains in the north.
- SOUTH AMERICA: Wet weather delayed crop harvest in Argentina but dry weather in Brazil aided harvest activities. Below average March rainfall in both countries hastened crop development.
- MEXICO: Dryness favored planting and field work.

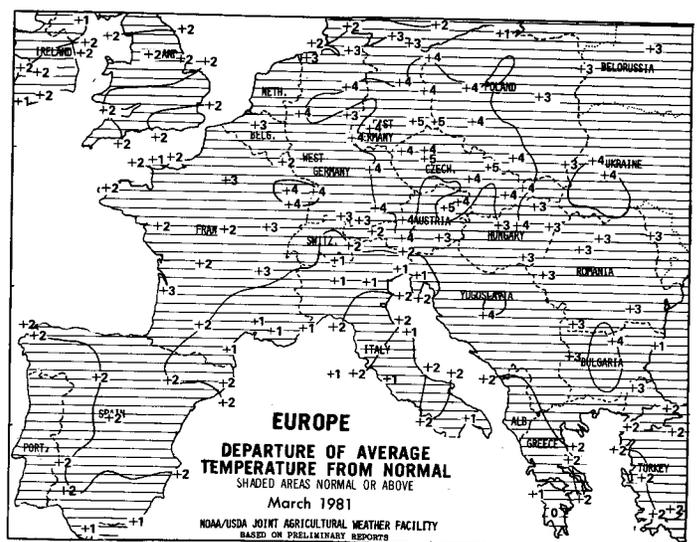
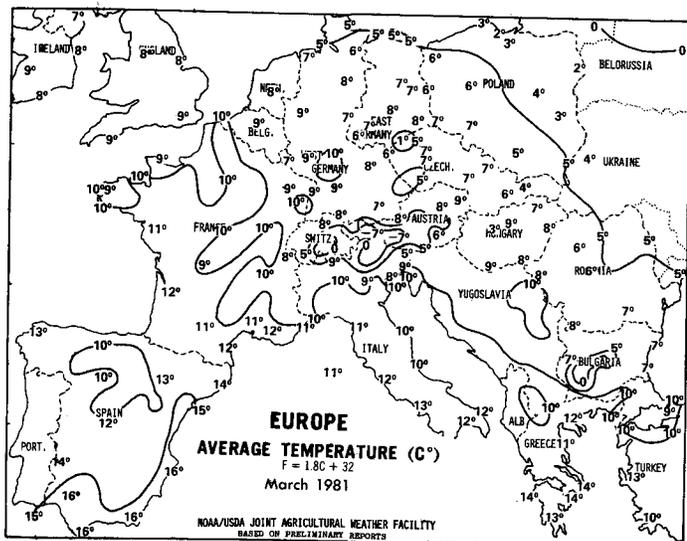
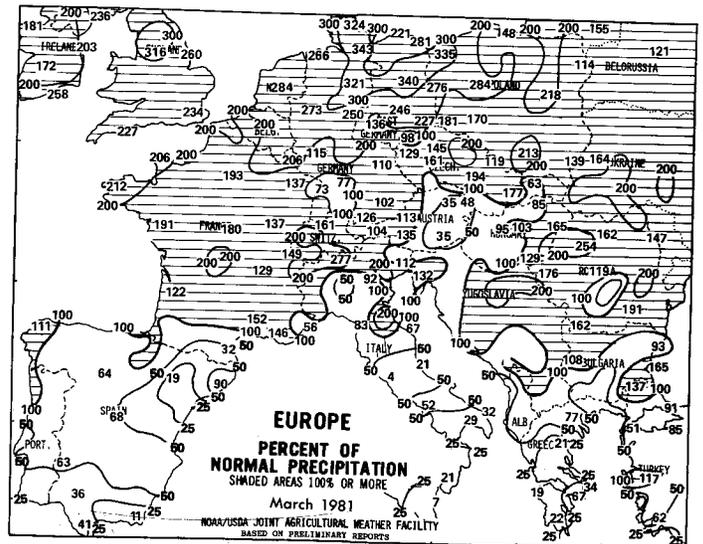
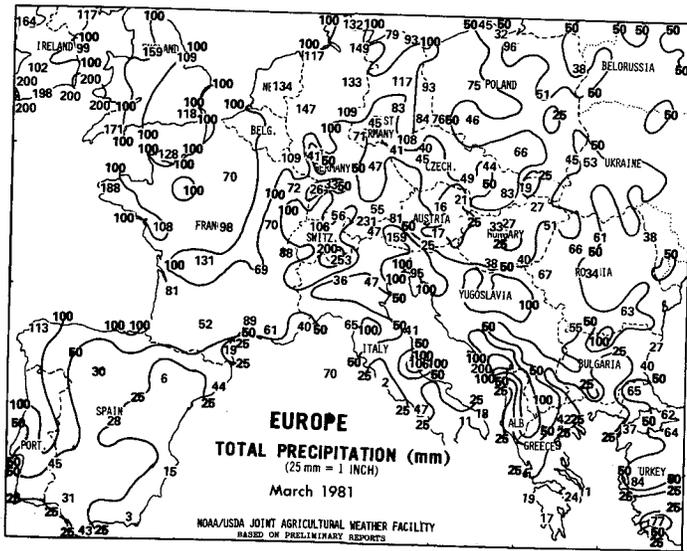
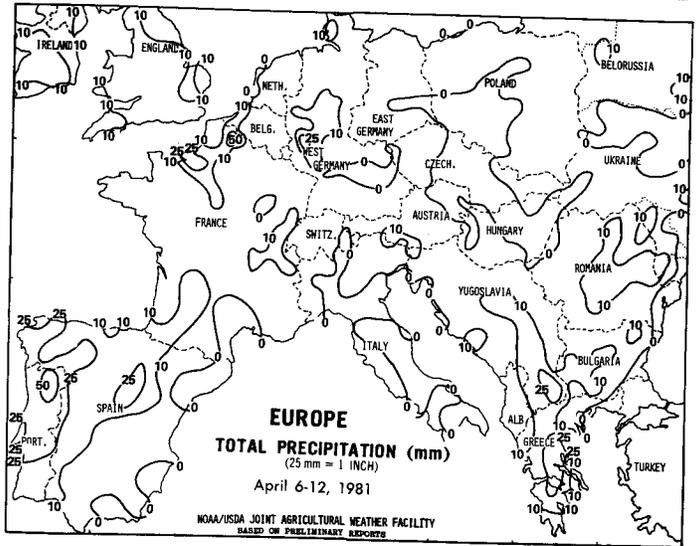


USSR: A variable precipitation pattern for the week produced generally above normal amounts in eastern European USSR and below normal amounts in the west. Soil moisture remained good to somewhat excessive, and reports indicate that fieldwork has not been seriously hindered. March precipitation ranged much above normal over most of European USSR; the fourth consecutive wet month. Temperatures rose to near normal in the winter grain belt, allowing growth to begin again. Above normal March temperatures got the crops off to an early start before the cold snap at the end of the month. In the New Lands, above normal March precipitation improved the spring grain sowing outlook, but warm weather caused early snowmelt, so that more of the moisture would be lost to evaporation. Cotton-growing areas in south central USSR also received above normal March precipitation. This moisture created favorable conditions as planting began, temporarily reduced the need for irrigation, and may have increased snowpack in the mountains, which was reported to be less than normal.

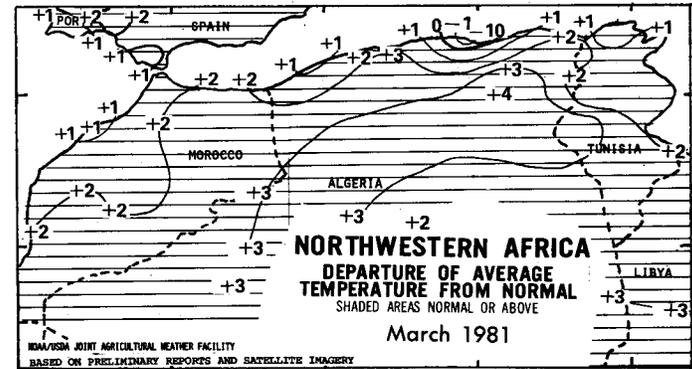
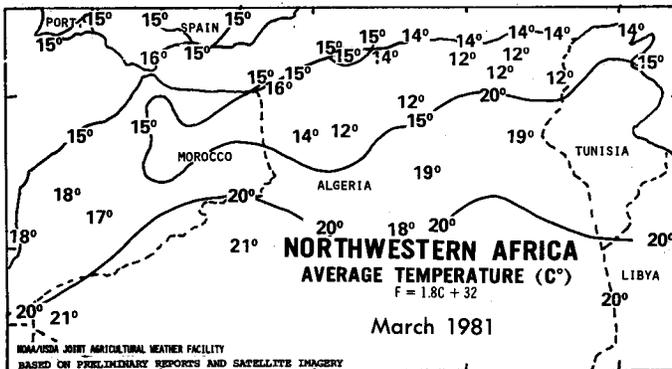
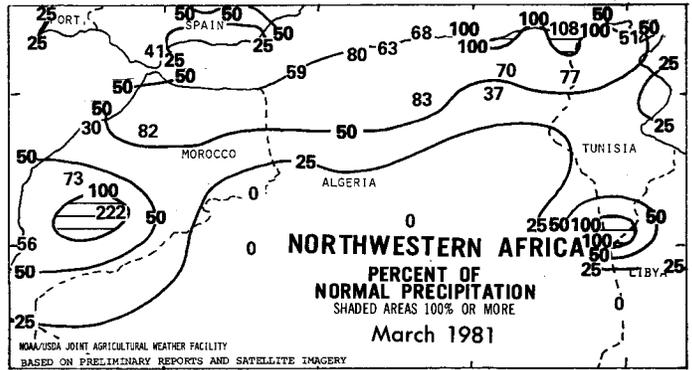
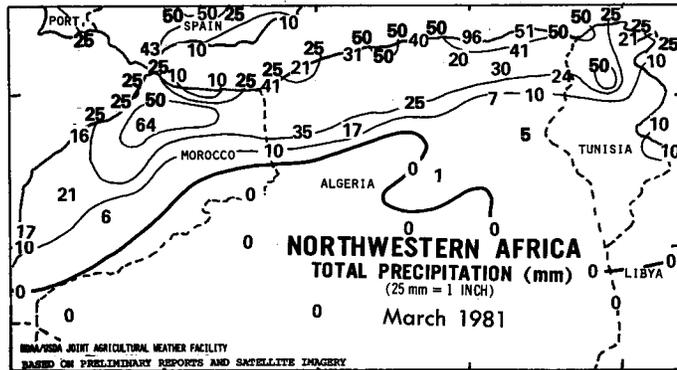
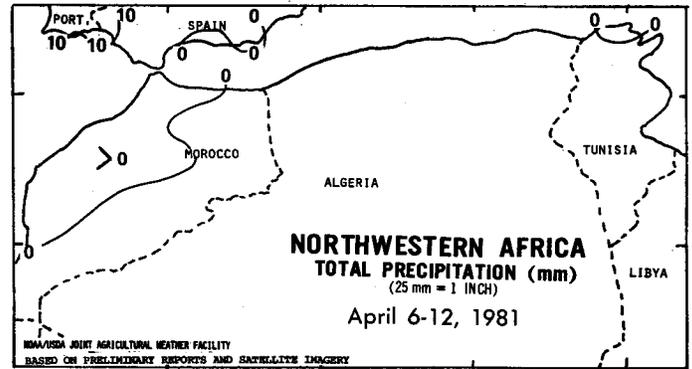




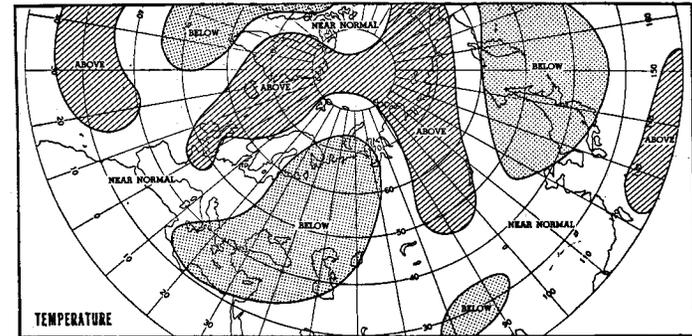
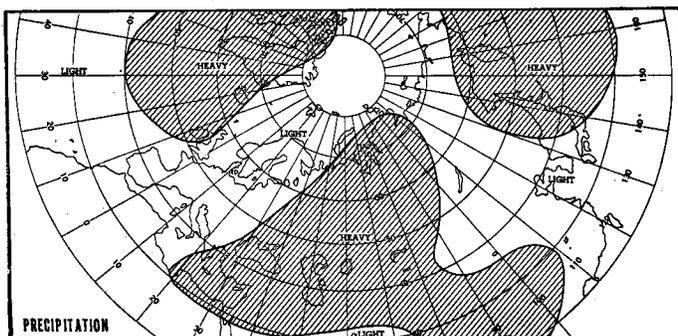
EUROPE: High pressure dominated the continent during the week, keeping precipitation on the light side in most countries for a second consecutive week. Soil moisture remained in good supply, however, for March precipitation was substantially above normal in most agricultural areas. The reverse sequence has been unfolding in the Iberian Peninsula and Northern Italy. Below-normal March precipitation, which kept winter grains unfavorably dry, has given way to wet weather in April. Most of Portugal and northern Spain saw continued rainfall during the week, improving growing conditions. Southeastern Spain and northern Italy received only light rains during the week, with adequate moisture conditions prevailing for the time being in northern Italy, but only marginal moisture for crop growth in southern Spain. Temperatures held above normal throughout Europe during the week, continuing a pattern which began in early March. The warm weather and abundant soil moisture over most of the continent has the 1981 growing season off to a very good start.



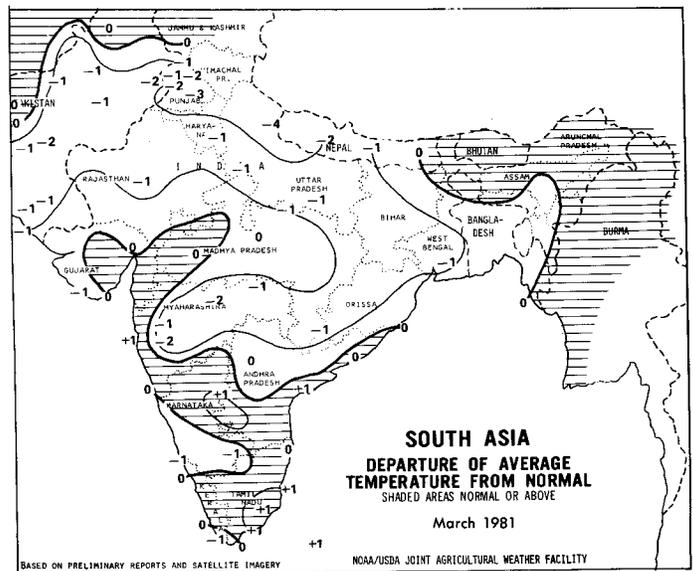
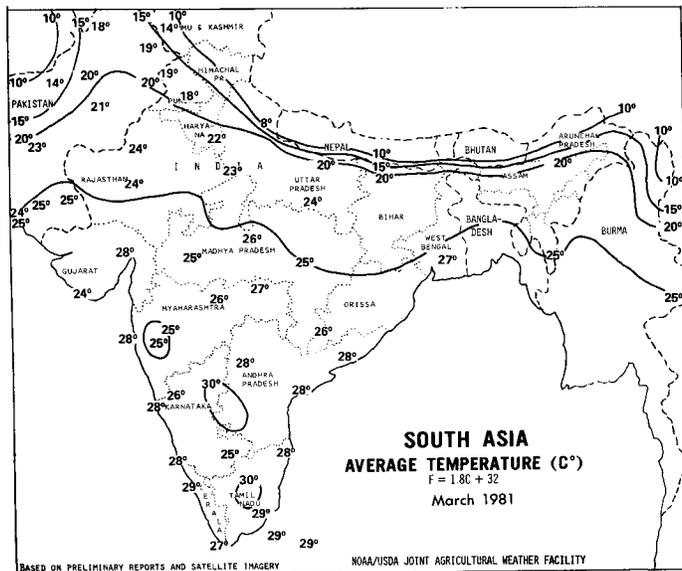
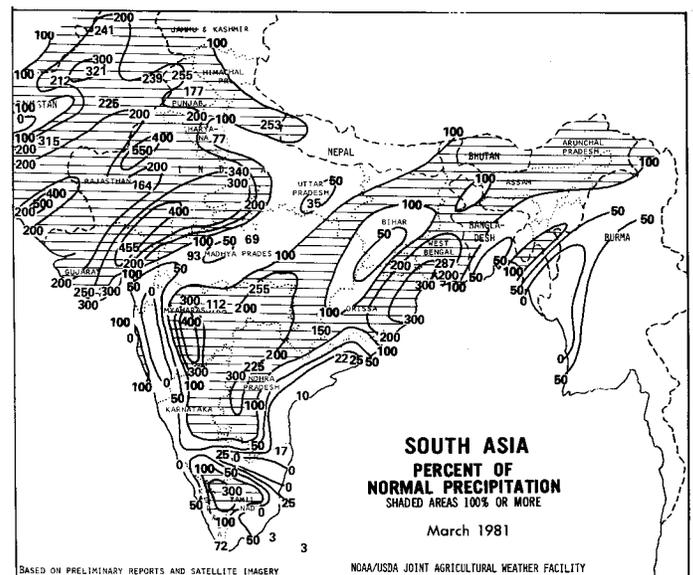
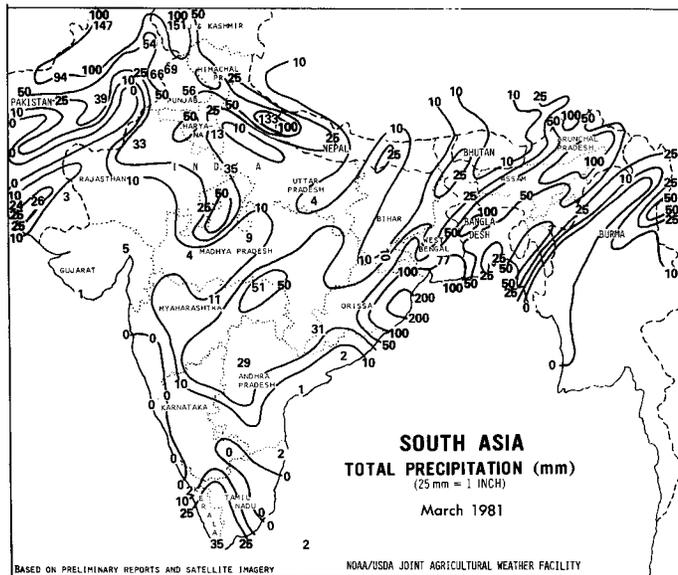
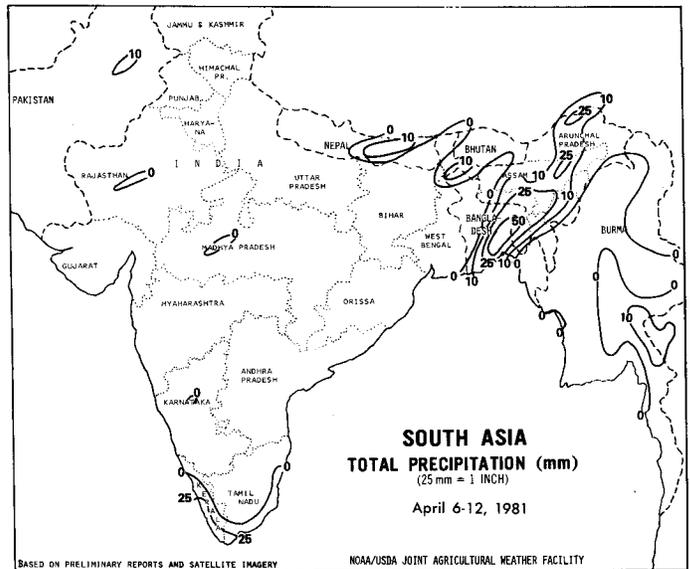
NORTHWESTERN AFRICA: Very light rainfall in northern Morocco helped winter grains through the grain filling stage. Further potential yield losses are now unlikely, but production from this area is expected to be far below normal. Rainfall in southern Moroccan winter grain areas has been insufficient to produce a crop. In Algeria and Tunisia, dry weather returned following the previous week's abundant rainfall. Below normal March rainfall in some areas had dimmed crop prospects somewhat, but current moisture conditions should assure near normal yields.



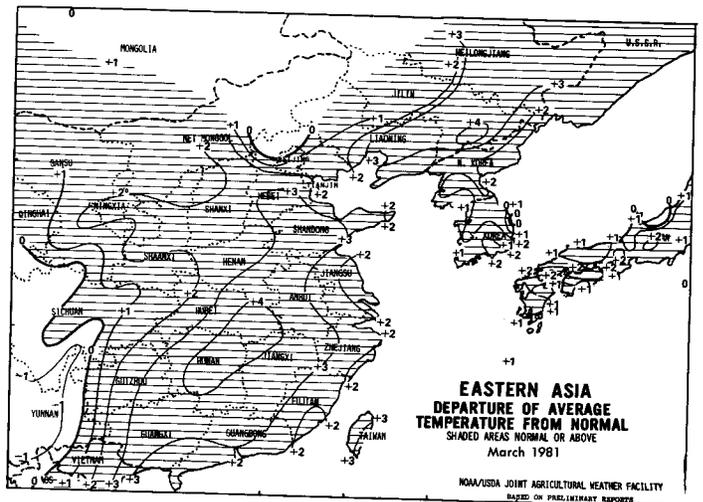
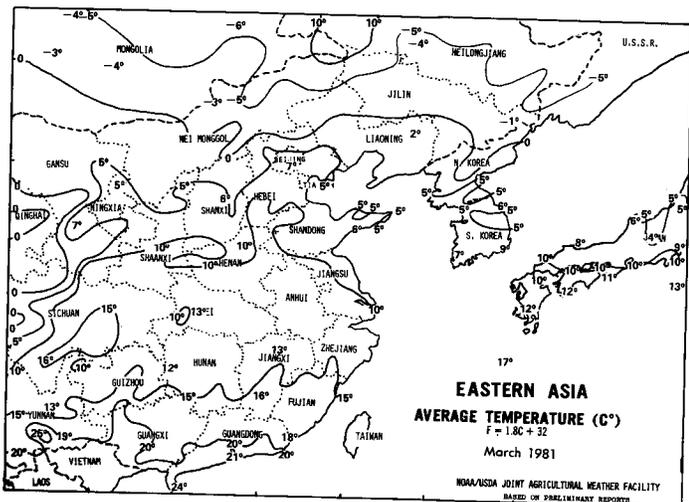
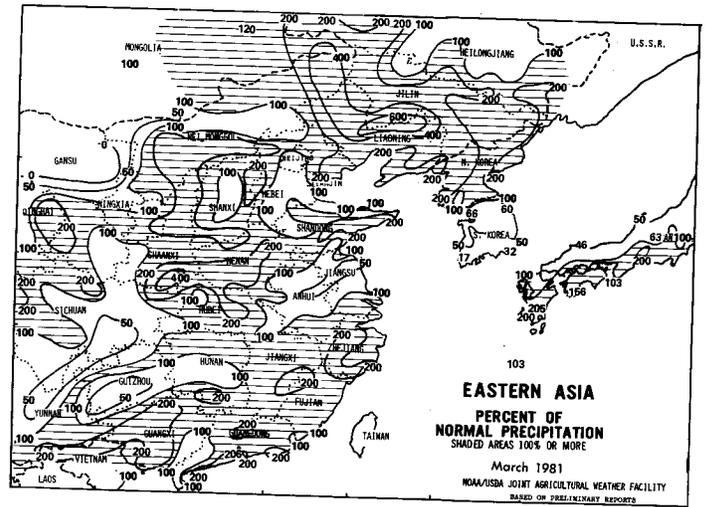
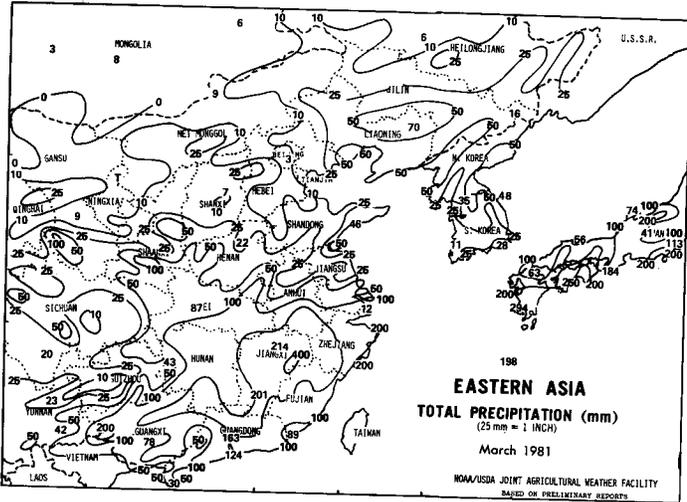
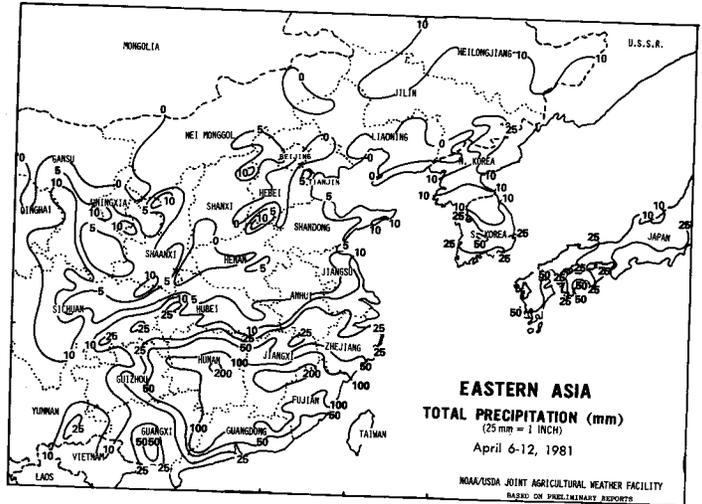
EURASIA OUTLOOK FOR MID-APRIL TO MID-MAY
CLIMATE ANALYSIS CENTER

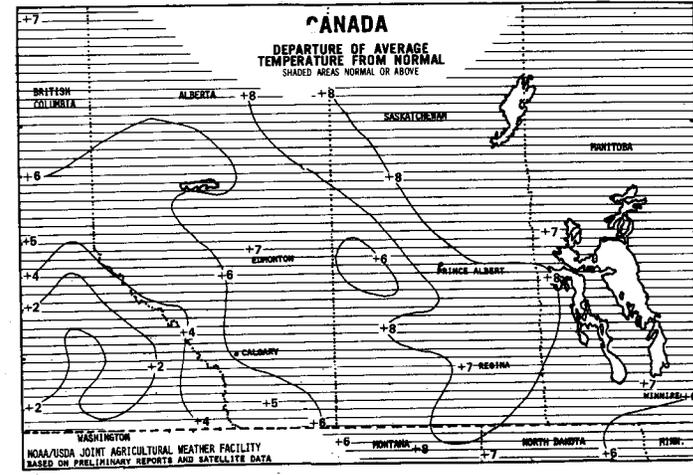
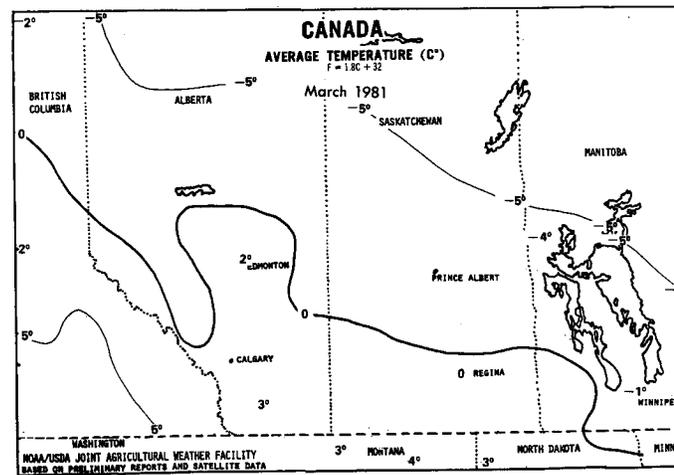
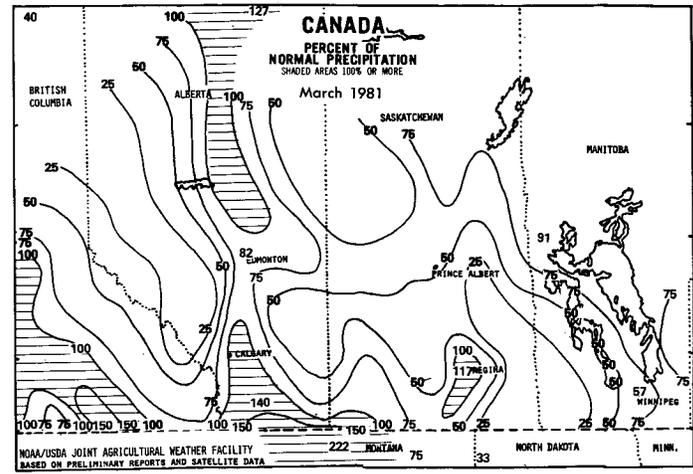
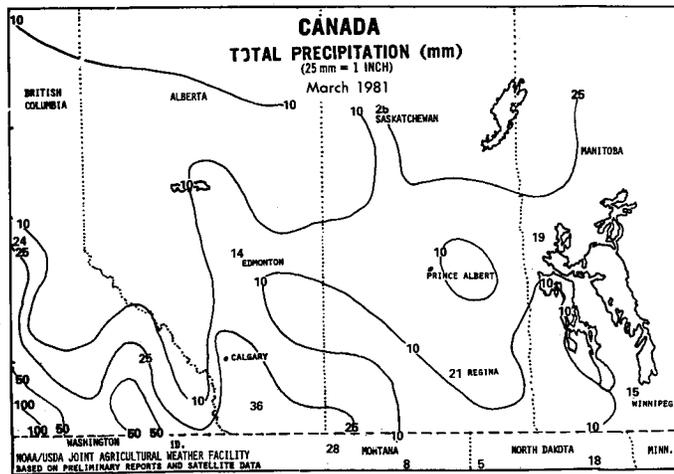
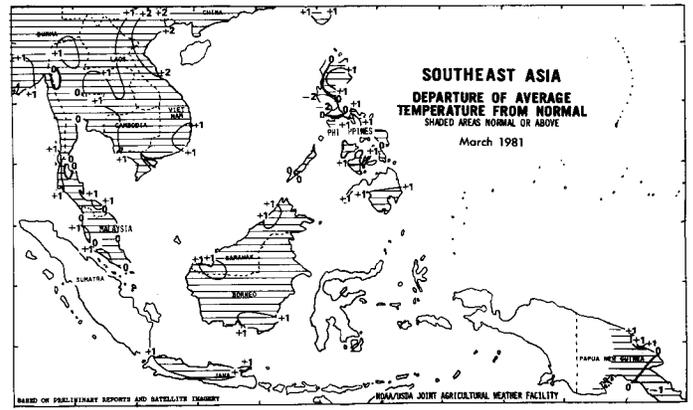
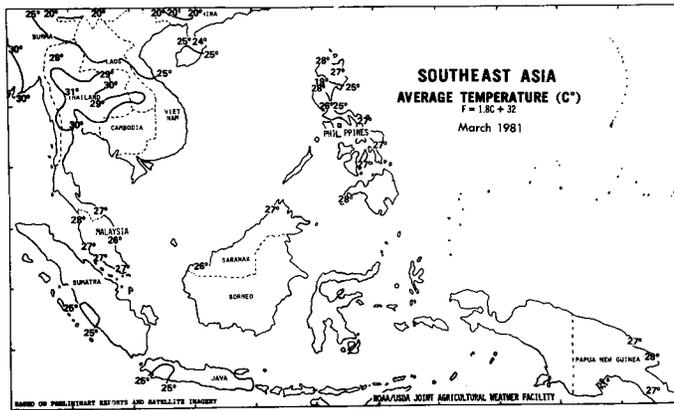
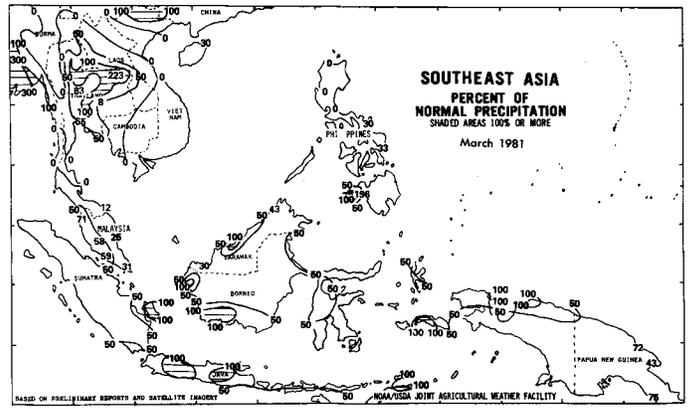
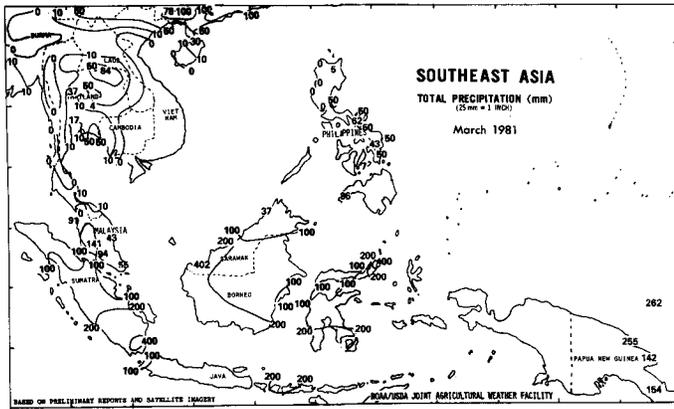


SOUTH ASIA: Dry weather moved into winter grain areas of Pakistan and India, providing more favorable harvest conditions. This represented a distinct change from March weather, when above normal precipitation occurred nearly every week. Temperatures during March stayed cooler than normal, but have now returned to normal. These somewhat cool, damp harvest conditions were not favorable, but no serious losses were expected. Abundant rainfall continued over much of Bangladesh and extreme eastern India. This pattern has persisted off and on since early January, and has provided good moisture for early rice. Rainfall in extreme southern coastal areas increased again following last week's lull.

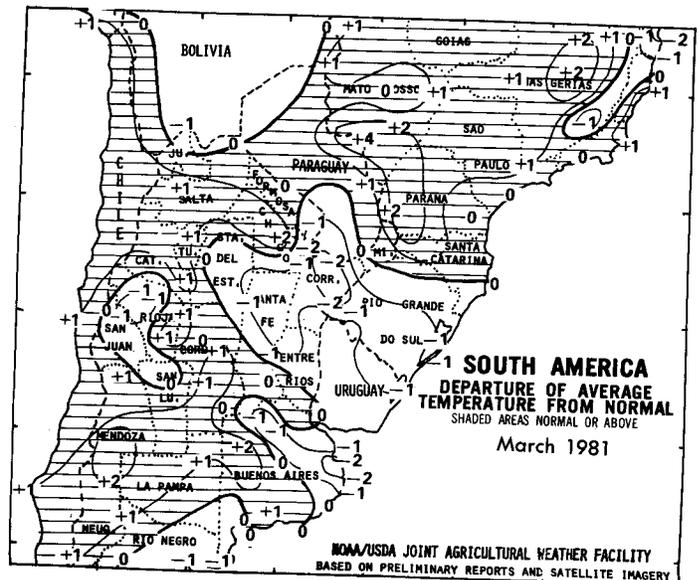
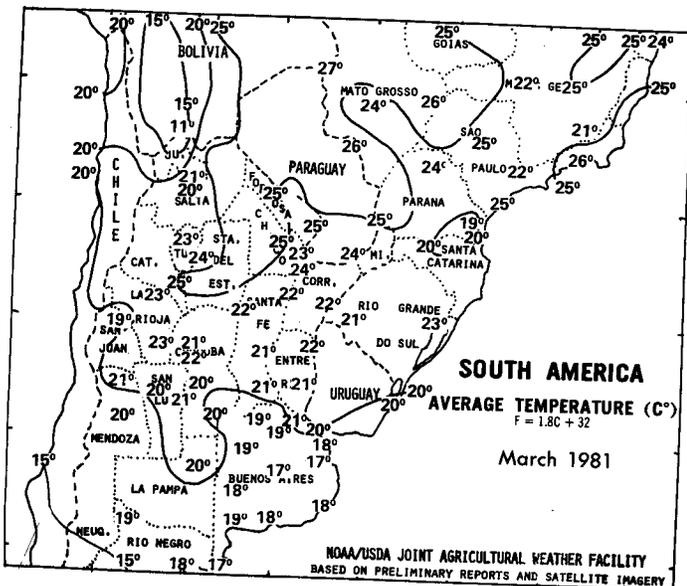
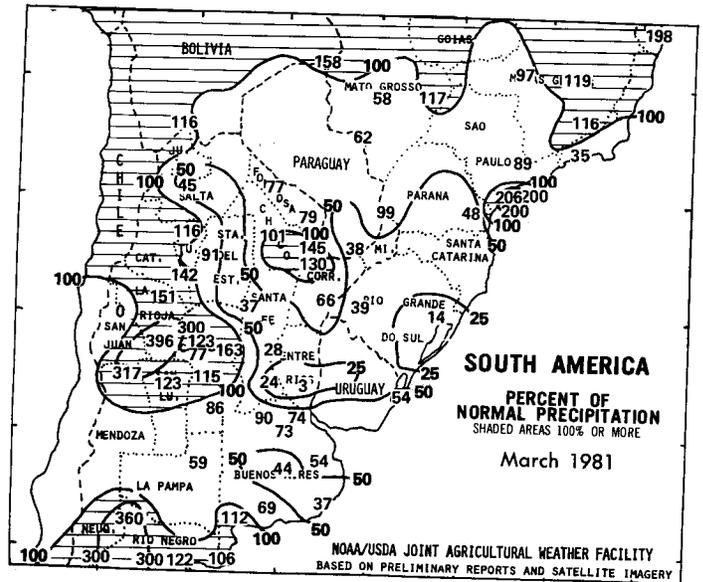
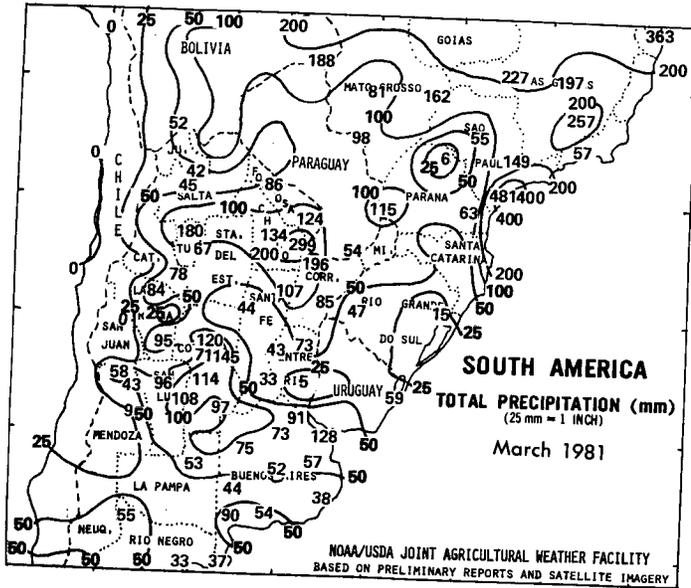
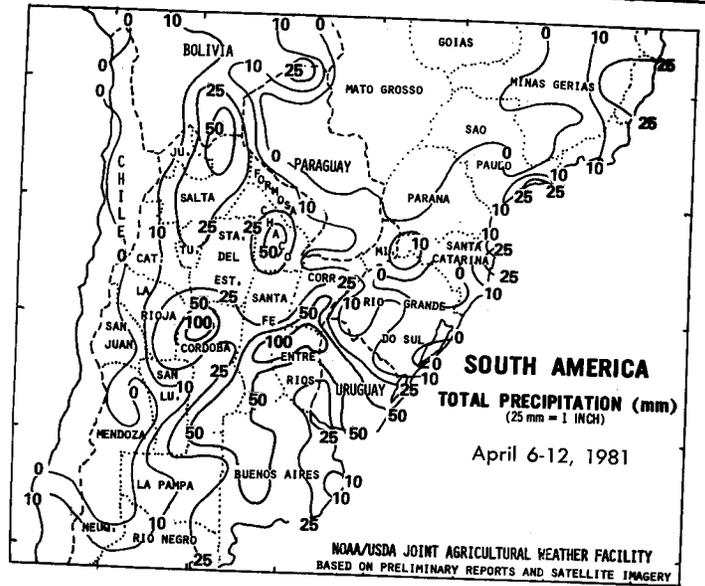


EASTERN ASIA: Heavy rain continued south of the Yangtze River, and reports of flooding in Hunan, Jiangxi, and Fujian have been received. This excessive water came on top of twice normal rainfall during March in parts of the area which had nearly saturated soils. No estimates of damage have been received. Most winter wheat crop areas received only light rainfall during the week. Precipitation during March was enough that heavy irrigation was not needed over most of the belt. Parts of Hebei received somewhat less than normal March precipitation, but only light precipitation is expected during that month, so severe deficits have not yet developed. Nevertheless, warm weather has encouraged winter grain growth and increased crop water needs in this dry area, so that increased irrigation has been necessary. In fact, temperatures stayed above normal for most of March in nearly all crop areas. In South Korea, increased rainfall maintained good growing conditions for winter grains and provided good moisture for spring planting.



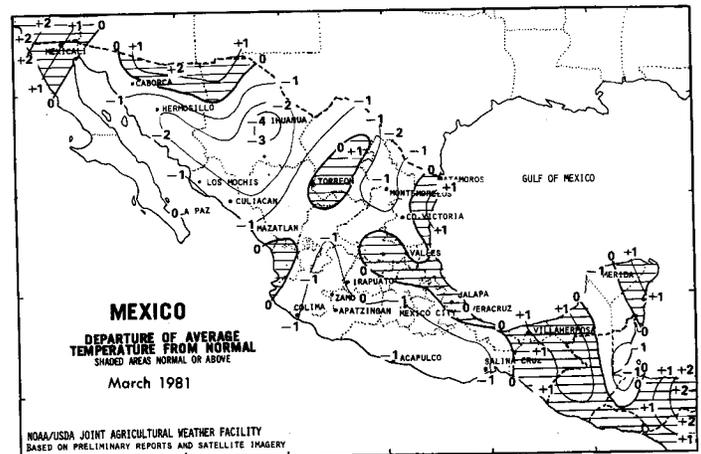
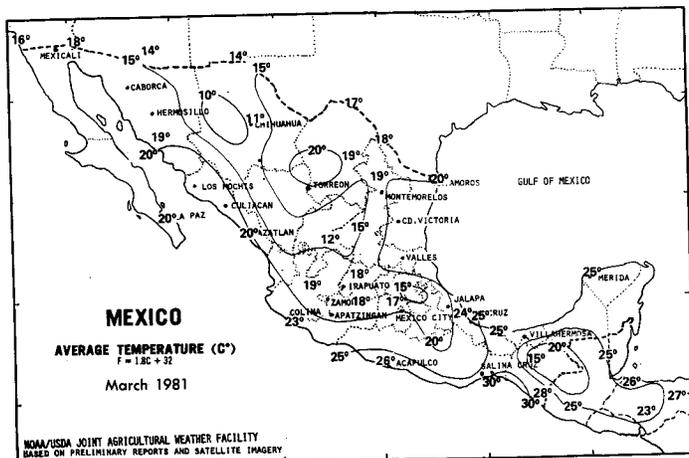
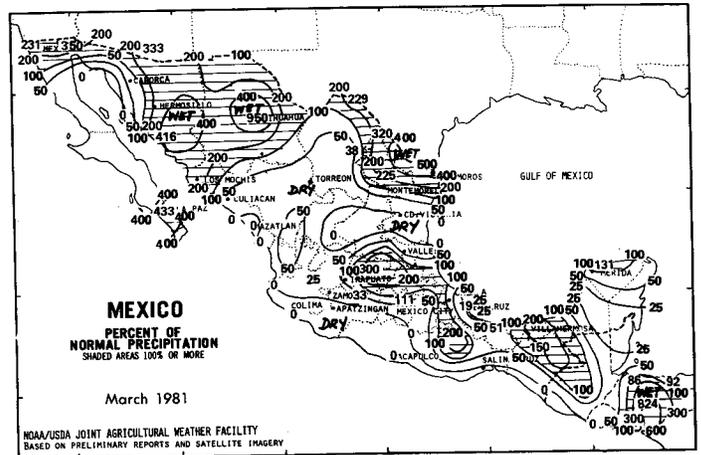
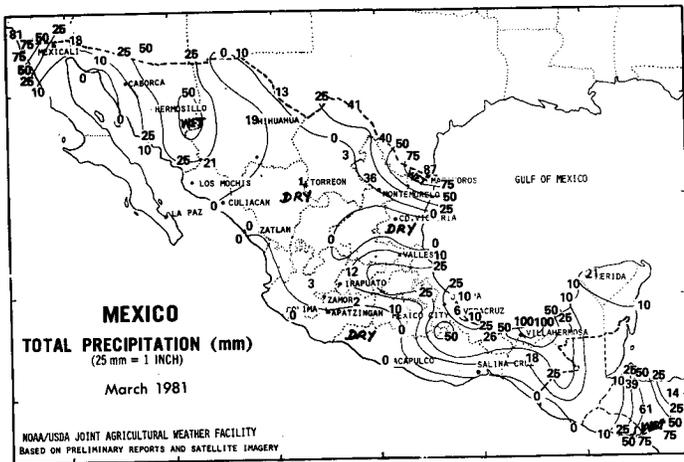
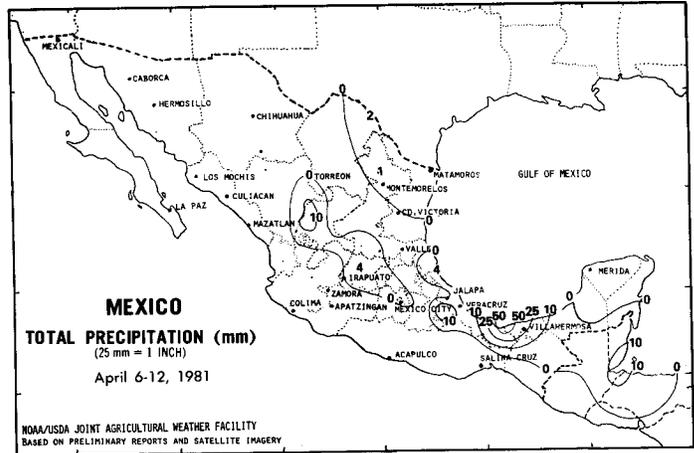


SOUTH AMERICA: Wet weather occurred in much of Argentina's crop area during the week. Rainfall amounts ranged 25 to 75 mm which caused delays in crop harvest since fields were too wet. The sorghum harvest is estimated to be 35 percent complete and corn 40 percent complete. The soybean harvest has just begun in early April. In Brazil, dry weather favored crop harvesting but continued dryness in the south, where the soybean harvest has just begun, has reduced soil moisture reserves considerably. March rainfall was well below normal in most of Brazil's major corn and soybean producing regions while average monthly temperatures were only slightly above the seasonal normal. Warm, dry weather in March aided crop harvests in central and northern portion of Brazil's corn/soybean belt. Argentina's monthly rainfall in March was also below normal, except in much of Cordoba which received above normal precipitation. In general, rainfall occurred at timely intervals during the crop season in both Brazil and Argentina. Thus, the relatively dry period which set in during late growth stages does not appear to have caused any significant reduction in overall yield prospects in either country.

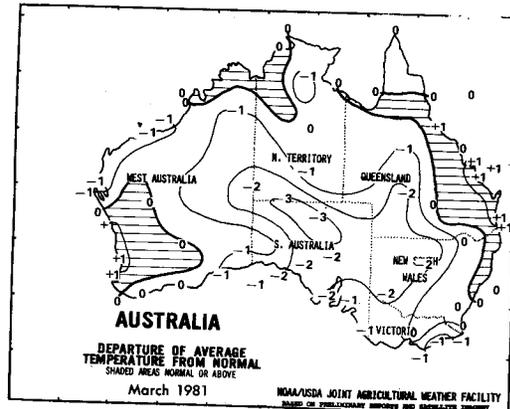
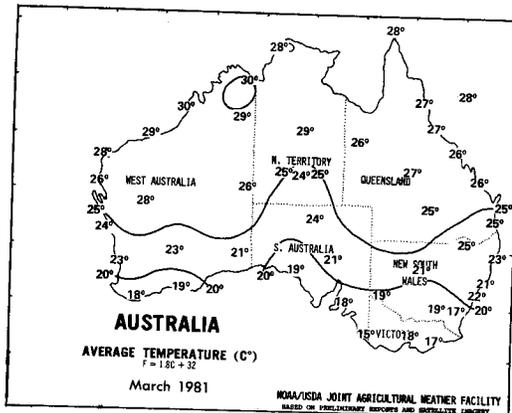
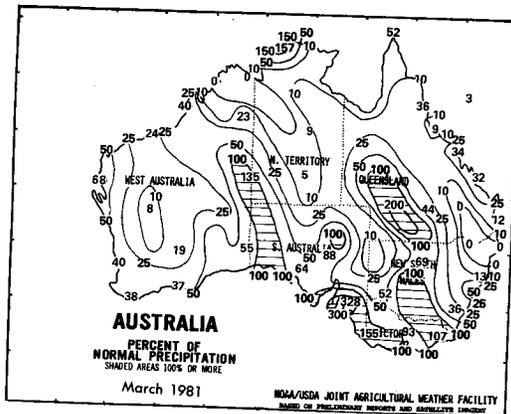
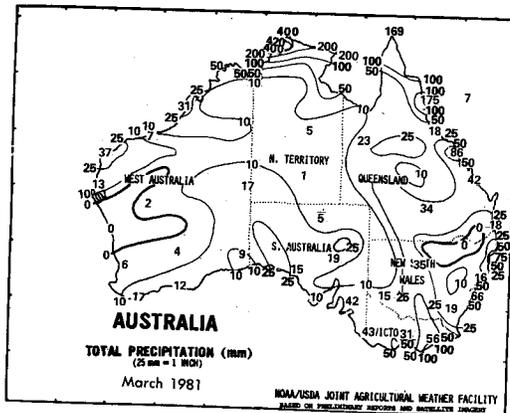


MEXICO: Heavy rainfall, up to four times the normal, over northwestern watersheds during March continued the dramatic rise in irrigation water supplies which are finally approaching the long term average. Thus, irrigation water appears adequate for most northwestern spring and summer crops--much brighter than a year ago when a severe drought blanketed the region with a water supply less than half the usual. Heavier than normal rains in both February and March hurt some corn and grain sorghum in the extreme northeast, and dry weather during the last couple of weeks has benefited crops. Citrus is being stressed by subnormal rainfall this winter and spring in non-irrigated orchards around Valles, and the dryness is continuing into mid-April. The rest of the northeastern citrus belt received seasonal rainfall and young citrus fruit should be developing satisfactorily. Weather in March and early April has been favorable for planting of cotton in the north and corn in the southern Plateaus; however, dryness may be slowing germination and early growth of some corn in the southern Plateau.

Unseasonably heavy rains in the third week of March likely damaged some unharvested cotton in El Salvador and Nicaragua (southeastern corner of map).



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