

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

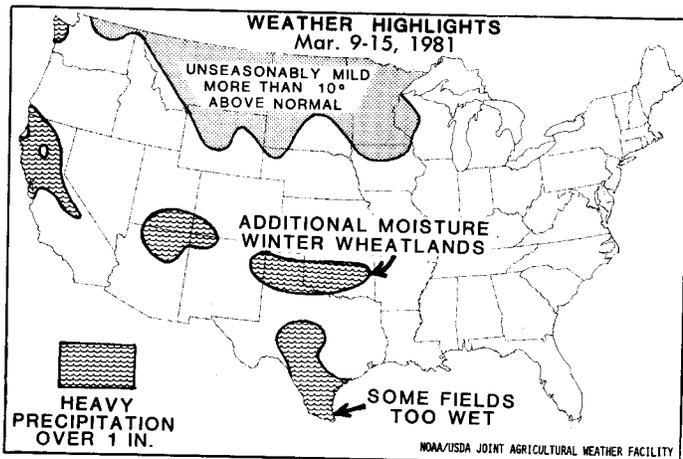
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Mar. 17, 1981

National Weather Summary

March 9-15, 1981



HIGHLIGHTS: Drought -- Drought conditions worsened throughout the East as only very light precipitation fell. Earlier rains had brought reservoirs up above critical levels so there was no immediate adverse impact to the worsening drought. Much of the winter wheat in the central Plains received additional moisture but more stored moisture is needed.

A storm system moving onto the west coast produced abundant precipitation in northern and central California and moved to the southern Plateau and southern Rockies, causing some heavy snow at higher elevations. Earlier in the week, southerly flow from the Gulf of Mexico spread rain and showers through Texas to Colorado and extreme southern Kansas. Some heavy snow fell in mountainous areas of New Mexico. Cloudy skies kept temperatures cool in southern Texas but the rest of the Plains and the Pacific Northwest averaged well above-normal. Temperatures reached to the 60's and 70's from the Dakotas to Washington.

MONDAY... Widely scattered rainshowers changed to snow flurries from inland New England across the lower Great Lakes. Light rainshowers dotted northwestern Texas and a few snow showers appeared from Wyoming through eastern Colorado. Temperatures dropped to the teens in the northern and central Plains. Later in the day the mercury rose to record highs in parts of the Northwest.

TUESDAY... There was some rain over southern Texas and a few showers of rain or snow over the southern Rockies and the Northeast while most of the Nation enjoyed sunny skies. Temperatures were seasonable over most of the Nation but reached to near 60° in the Pacific Northwest.

WEDNESDAY... There were scattered rainshowers from the coast of Texas to the southern high Plains.

The southern Rockies reported both rain and snow. Some moderate amounts accumulated in parts of these mountain areas. Scattered snow showers fell from lower Michigan to the upper Ohio Valley. Warmer weather stretched from the gulf coast to the northern Plains. The mercury reached the 60's in North Dakota and Montana.

THURSDAY... Light rain continued over southern and central Texas with some heavy amounts in isolated areas and the southern coast. Isolated thunder-showers developed in central California and moved into the Great Basin. The Plains and the Northwest were warm with record-highs again in parts of the Northwest.

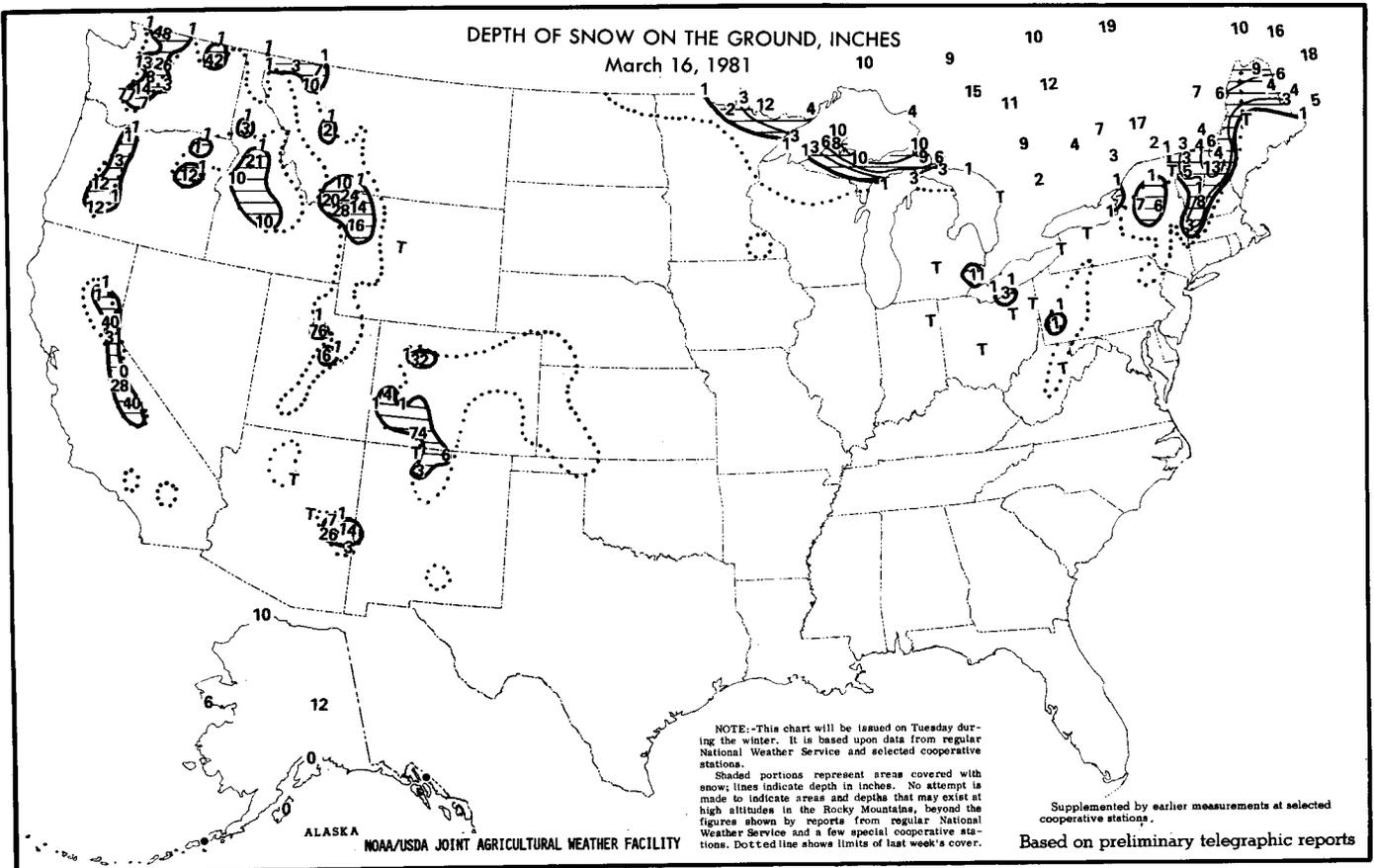
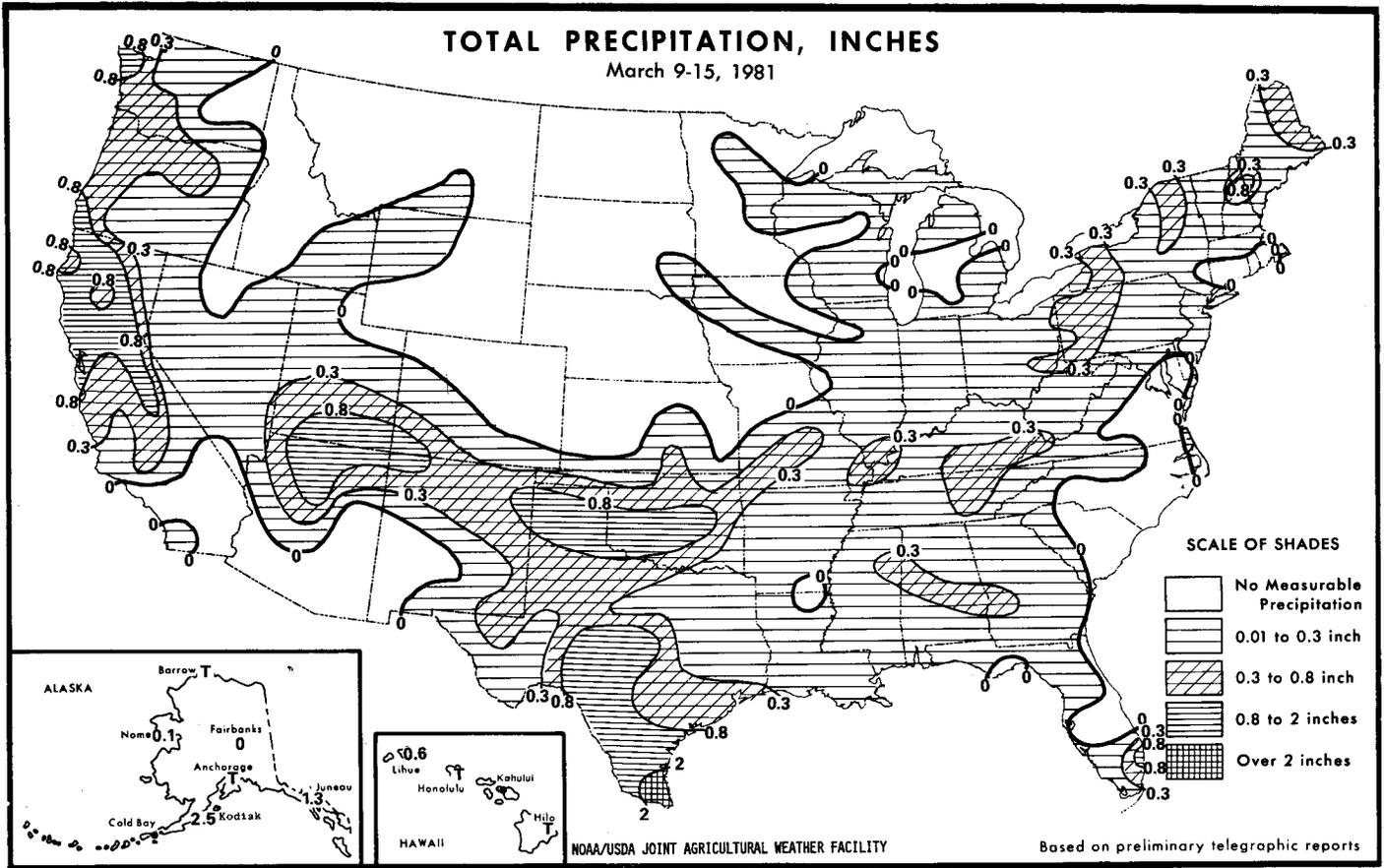
FRIDAY... Wind mixed with rain and snow along the west coast. Rainshowers at low levels became snow showers in the southern Sierra Nevada mountains. Light showers continued in northern Texas with thundershowers in New Mexico. Rainshowers were scattered across the southern Plains through the Tennessee Valley and across the southeastern portion of the Nation.

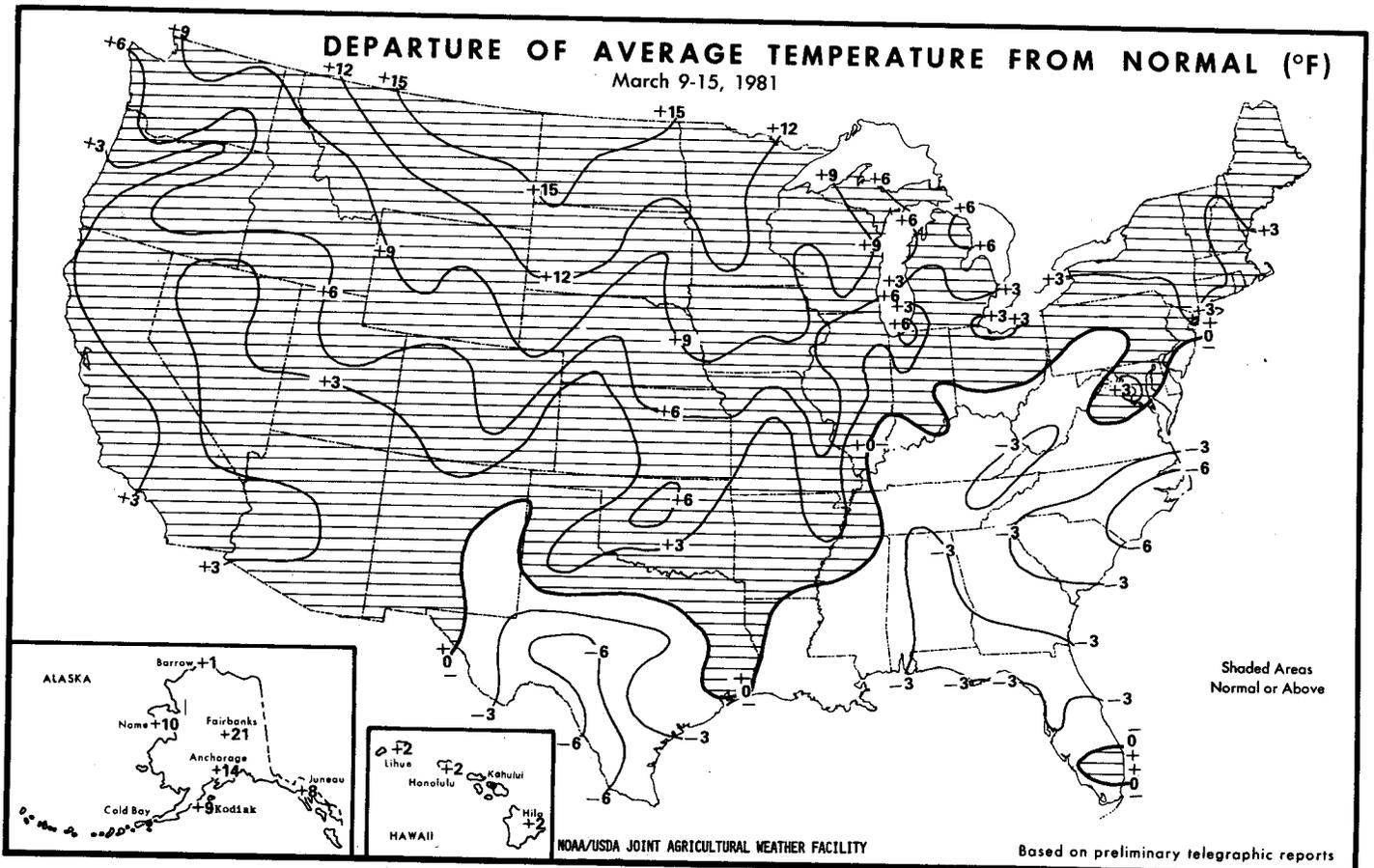
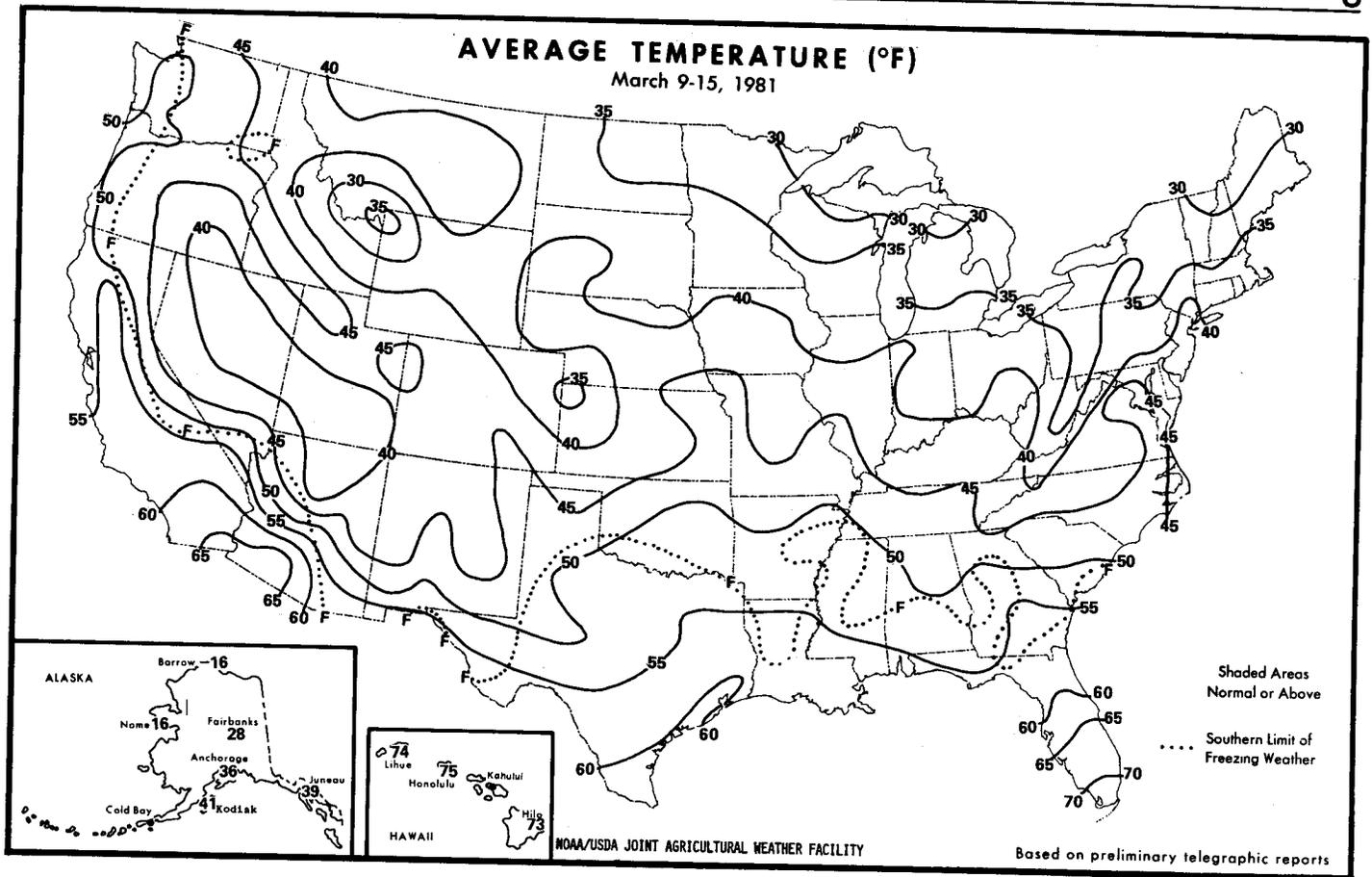
SATURDAY... Low pressure systems in the southern Rockies brought snow to the southern Rockies and thunderstorms to the Texas Panhandle and western Oklahoma. Sunshine warmed the northern Plains. Records were broken as temperatures climbed into the 70's through the Dakotas.

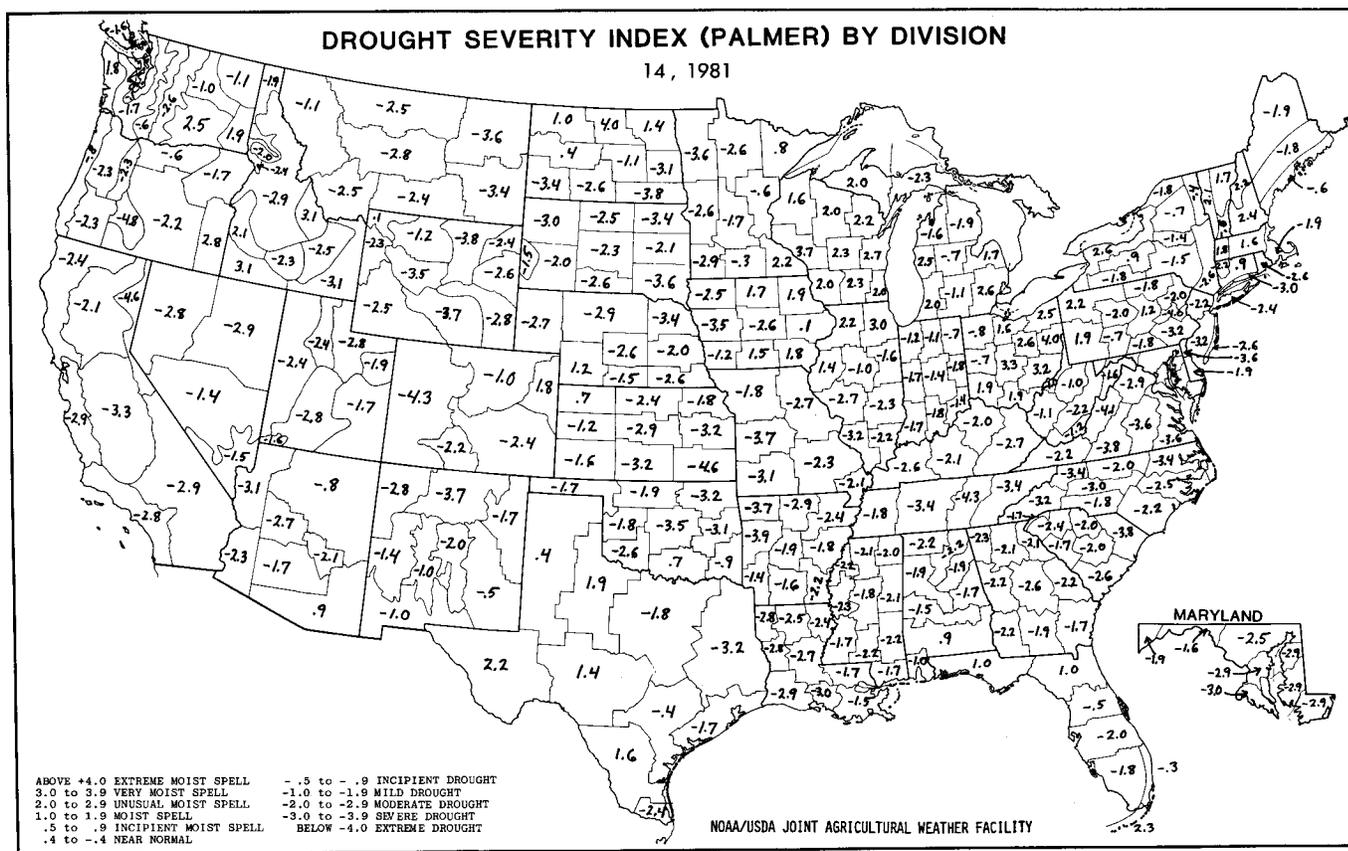
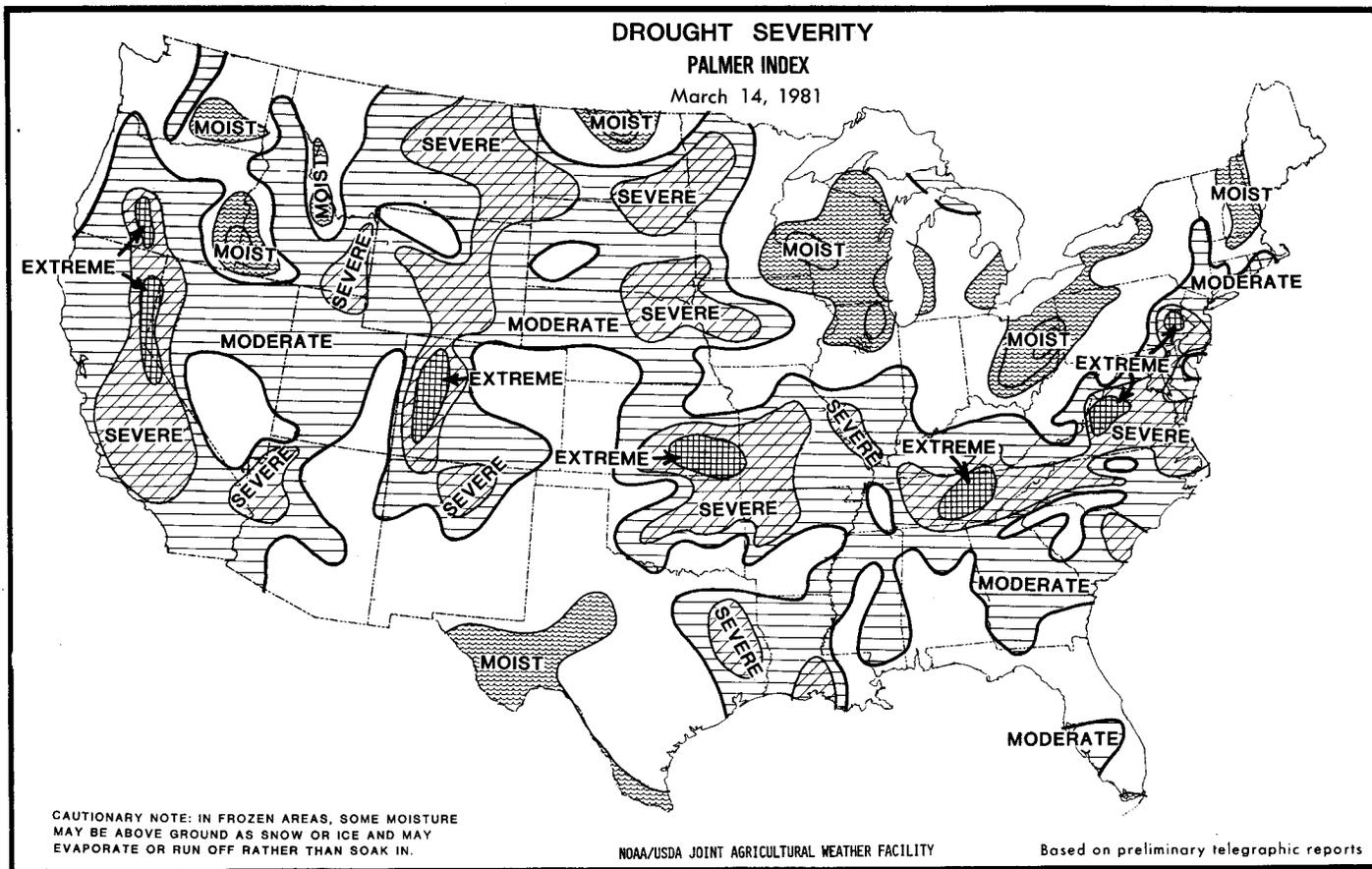
SUNDAY... Rainshowers were scattered from Oklahoma to Indiana and northern Mississippi in the morning and spread to Ohio and eastward in the afternoon. Another cold front brought rain to the west coast from Washington to central California. Rain changed to snow at higher elevations. Temperatures remained cool over the upper Great Lakes but were seasonably mild elsewhere in the Nation.

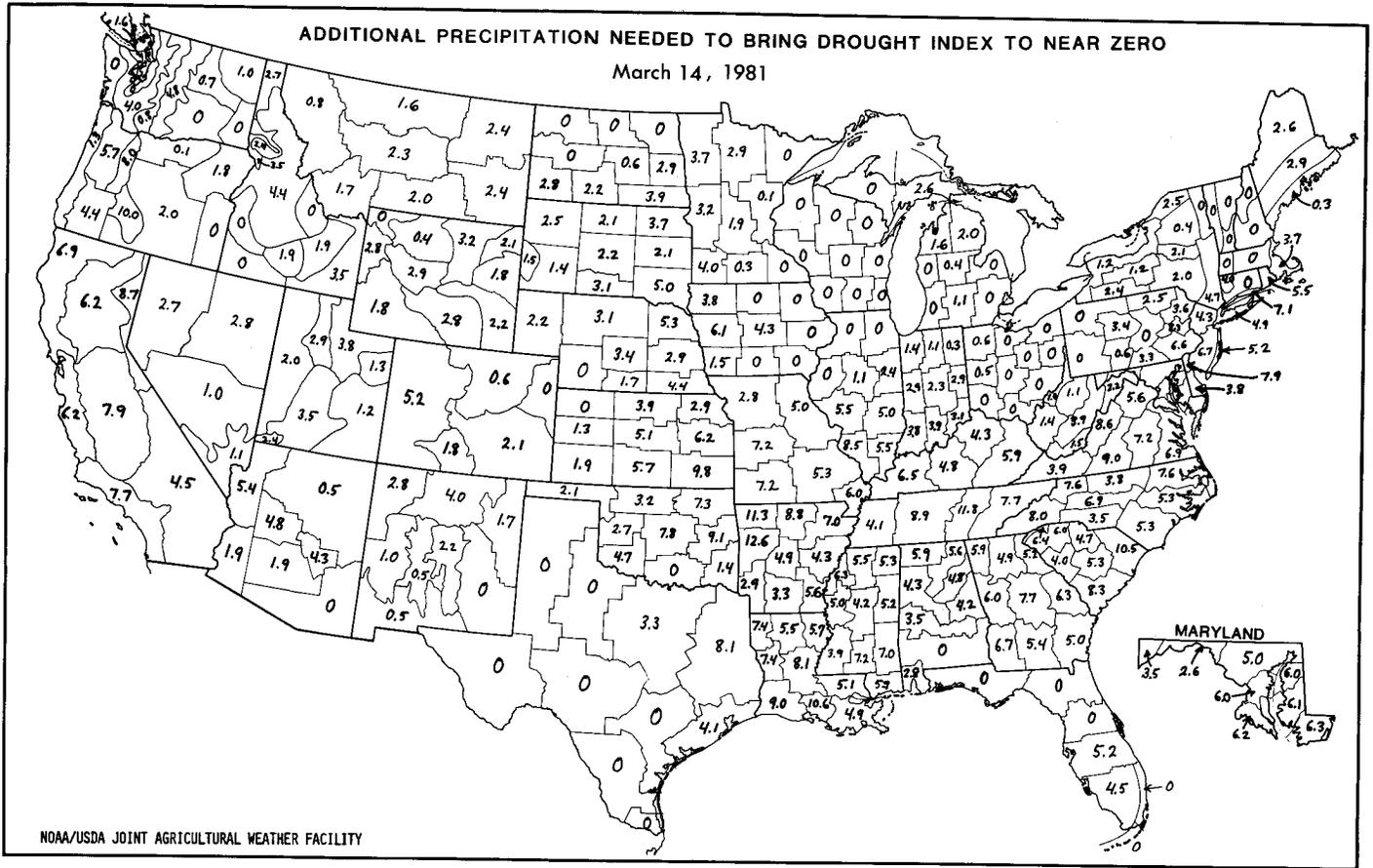
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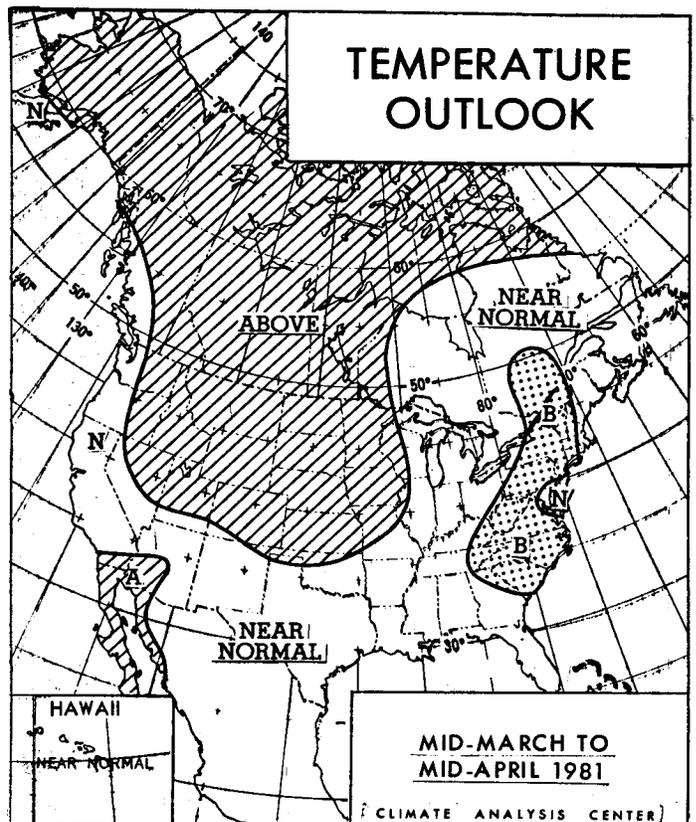
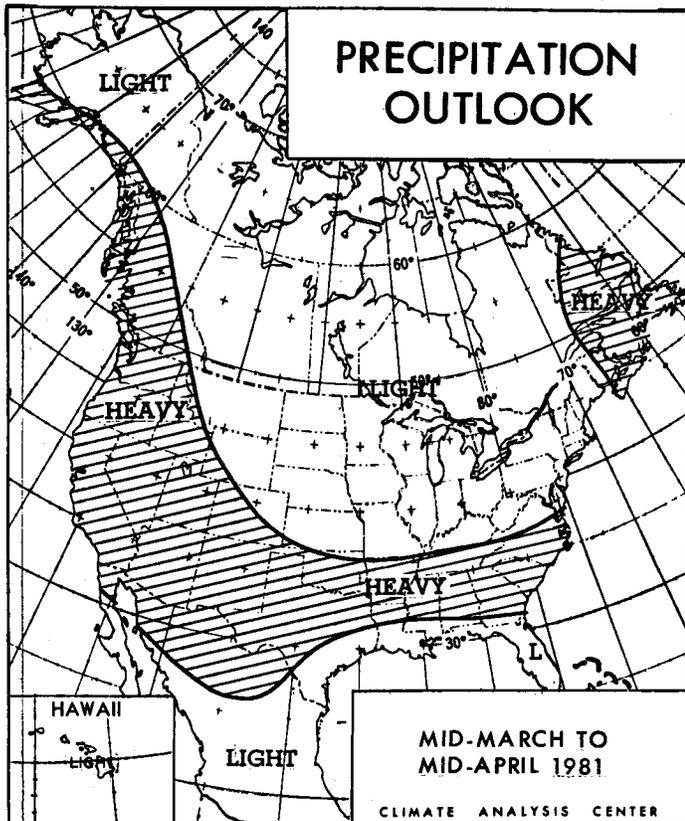


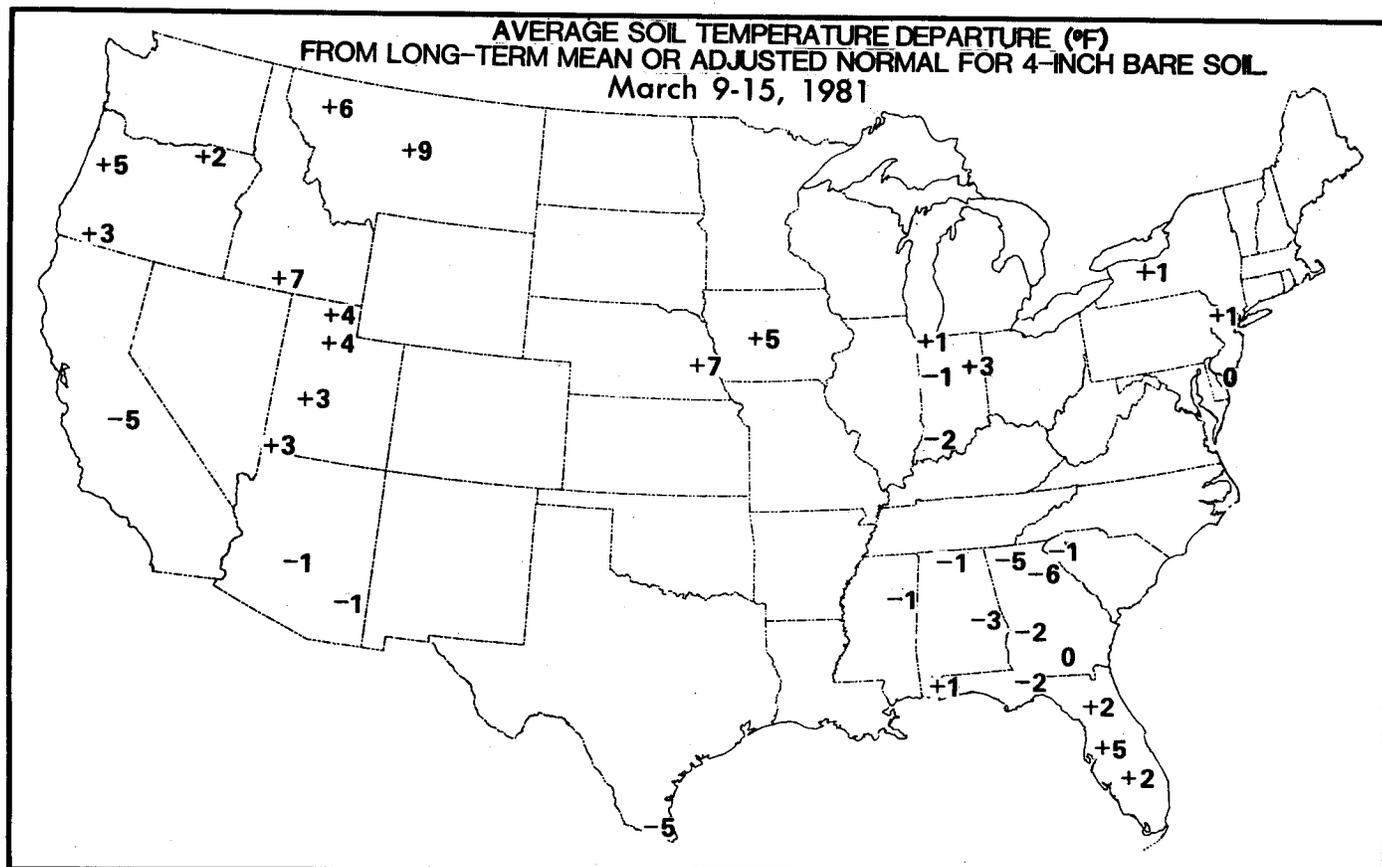
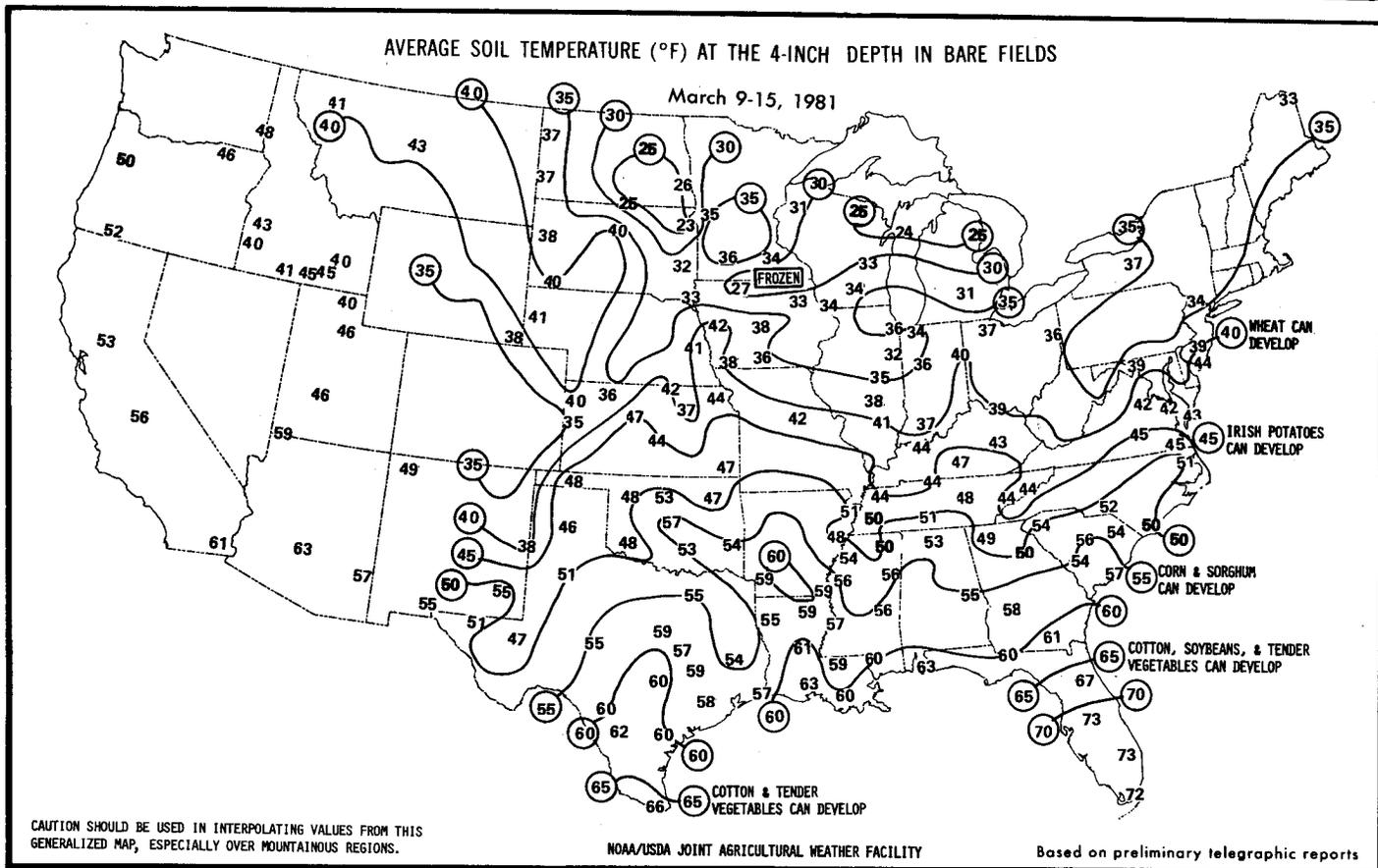






Average Monthly Weather Outlook





Weather Data for the Week Ending: Mar. 15, 1981

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Mar. 2	PCT. NORMAL SINCE Mar. 2	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERA- TURE °F		PRECIPI- TATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	65	32	70	27	48	-4	T	-1.4	T	1.1	38	7.5	56	82	24	0	3	1	0
MOBILE	70	44	77	40	57	-1	T	-1.6	T	.1	3	10.1	78	70	30	0	0	2	0
MONTGOMERY	66	37	73	33	52	-4	T	.6	T	.8	78	10.3	92	83	29	0	0	1	1
AK ANCHORAGE	43	30	45	25	37	14	T	.1	T	.1	0	2.1	105	79	54	0	6	1	0
BARROW	-10	-21	1	-35	-16	1	T	0	T	0	0	.4	50	88	77	0	7	1	0
FAIRBANKS	41	15	44	8	28	21	0	.1	T	0	0	1.0	91	52	36	0	7	0	0
JUNEAU	44	38	51	36	39	8	1.3	.5	.4	1.6	100	10.9	121	96	73	0	0	6	0
KODIAK	43	38	45	37	41	9	2.5	1.7	.9	4.4	244	23.1	196	87	78	0	0	7	1
NOME	23	9	35	-1	16	10	.1	.2	.1	.3	60	3.2	145	72	54	0	7	1	0
AZ FLAGSTAFF	46	25	52	19	36	2	.9	.5	.4	2.5	313	5.0	114	--	36	0	7	4	0
PHOENIX	75	52	78	49	64	5	T	.2	T	.9	225	2.8	187	67	25	0	0	0	0
TUCSON	70	46	73	40	58	1	0	.2	0	1.9	633	4.0	235	68	23	0	0	0	0
WINSLOW	57	30	61	26	44	0	T	.1	T	0	0	.9	82	--	--	0	4	1	0
YUMA	80	52	84	45	66	3	0	.1	0	.2	100	1.0	91	48	19	0	0	0	0
AR FORT SMITH	64	35	69	29	50	1	.2	.6	.2	1.0	63	5.3	74	85	35	0	3	1	0
LITTLE ROCK	63	43	70	33	52	2	.1	-1.1	.1	1.0	43	7.2	66	65	37	0	0	1	0
CA BAKERSFIELD	67	48	73	43	57	1	.4	.2	.3	.8	200	2.7	108	--	48	0	0	2	0
EUREKA	56	45	59	40	51	3	.6	.5	.4	1.7	74	12.9	86	96	70	0	0	4	0
FRESNO	66	45	75	40	56	2	.5	.2	.3	.7	100	5.0	122	88	44	0	0	3	0
LOS ANGELES	67	51	74	48	59	3	0	.5	0	1.7	213	5.4	92	70	50	0	0	0	0
RED BLUFF	67	47	78	43	57	4	.7	.1	.7	1.5	115	8.9	97	--	50	0	0	1	1
SAN DIEGO	68	55	72	51	62	3	.1	.3	.1	1.5	188	7.0	167	81	56	0	0	2	0
SAN FRANCISCO	61	47	67	46	54	1	1.3	.7	.6	1.7	142	10.0	114	86	62	0	0	3	2
STOCKTON	66	44	74	40	55	3	.6	.2	.4	1.6	178	6.7	110	--	53	0	0	3	0
CO DENVER	53	30	60	28	42	6	T	.3	T	1.0	200	1.7	106	68	30	0	5	0	0
GRAND JUNCTION	57	33	61	30	45	5	.1	0	.1	.5	167	.8	57	76	33	0	4	1	0
PUEBLO	59	30	67	26	45	6	T	.1	T	.4	200	1.0	91	87	28	0	5	0	0
CT BRIDGEPORT	45	31	53	25	38	2	T	.8	T	.2	13	5.3	75	84	50	0	4	0	0
HARTFORD	48	27	58	24	38	4	T	.8	T	.1	6	7.7	92	64	30	0	7	0	0
DC WASHINGTON	58	37	71	33	48	4	T	.8	T	.4	27	3.6	54	63	26	0	0	0	0
FL APALACHICOLA	69	45	73	40	57	-3	0	-1.1	0	.3	14	4.9	52	77	39	0	0	0	0
DAYTONA BEACH	71	46	74	39	59	-5	0	.8	0	.4	25	6.2	93	85	46	0	0	0	0
FORT MYERS	78	57	82	50	68	0	.1	.6	.1	.2	14	2.6	50	88	49	0	0	2	0
JACKSONVILLE	73	40	77	35	57	-4	T	.8	T	3.0	176	8.6	105	89	29	0	0	0	0
KEY WEST	76	66	79	63	71	-3	.5	.2	.3	.5	71	3.2	73	84	65	0	0	2	0
MIAMI	79	63	82	57	71	0	.4	0	.3	.4	67	5.7	112	79	51	0	0	2	0
ORLANDO	76	51	80	46	63	-2	T	.8	T	.1	6	4.7	66	86	32	0	0	0	0
TALLAHASSEE	71	36	74	30	54	-6	T	-1.4	T	5.4	193	15.6	136	91	27	0	2	0	0
TAMPA	73	50	78	46	61	-4	T	.9	T	.3	17	6.1	85	92	41	0	0	0	0
WEST PALM BEACH	78	60	84	54	69	0	1.3	.6	1.3	.3	93	5.9	88	81	44	0	0	1	1
GA ATLANTA	64	36	70	33	50	0	.1	-1.2	.1	1.0	37	8.6	74	53	22	0	0	1	0
AUGUSTA	66	32	71	26	49	-4	0	-1.1	0	.8	38	6.9	72	81	22	0	5	0	0
MACON	70	38	74	33	54	-1	.1	-1.1	.1	1.3	52	11.2	104	83	21	0	0	1	0
SAVANNAH	69	40	75	32	55	-2	0	-1.1	0	1.1	52	5.0	63	68	23	0	1	0	0
HI HILO	--	--	--	--	73	2	T	.1	--	--	--	--	--	--	--	0	0	--	--
HONOLULU	84	65	85	62	75	2	T	.8	T	.5	31	2.3	26	90	48	0	0	0	0
KAHULUI	--	--	--	--	74	2	T	.7	--	--	--	--	--	--	--	0	0	--	--
LIHUE	--	--	--	--	74	2	.6	.5	--	1.0	45	--	--	--	--	0	0	--	--
ID BOISE	62	31	66	27	46	6	0	.2	0	T	0	2.2	67	69	25	0	6	0	0
LEWISTON	64	33	72	30	49	7	0	.2	0	.1	25	2.1	81	82	35	0	2	0	0
POCATELLO	56	24	59	21	40	6	.1	.1	.1	.1	25	1.5	65	87	31	0	7	1	0
IL CAIRO	56	36	62	30	46	0	.5	.6	.4	1.1	50	5.8	57	--	--	0	1	2	0
CHICAGO	49	27	62	22	38	4	.2	.3	.1	.3	30	2.6	63	79	40	0	6	2	0
MOLINE	53	26	64	18	39	6	T	.5	T	.2	22	2.8	70	83	36	0	6	0	0
PEORIA	53	27	65	20	40	5	T	.6	T	.2	18	3.0	67	84	35	0	7	1	0
ROCKFORD	49	26	62	19	38	5	.1	.4	.1	.2	20	2.8	68	81	35	0	7	1	0
SPRINGFIELD	56	30	68	24	43	6	T	.5	T	1.2	120	3.7	80	82	31	0	6	1	0
IN EVANSVILLE	55	28	60	25	41	-1	.3	.8	.3	.9	43	4.3	48	83	40	0	7	1	0
FORT WAYNE	46	27	57	20	37	2	.1	.6	T	.3	23	4.0	66	83	46	0	6	2	0
INDIANAPOLIS	49	27	58	23	38	0	T	.8	T	.7	47	4.0	59	84	49	0	7	1	0
SOUTH BEND	50	29	64	23	39	6	T	.5	T	.1	10	2.8	51	83	40	0	5	1	0
IA BURLINGTON	54	31	64	23	43	8	T	.5	T	.2	20	2.0	50	--	--	0	5	1	0
DES MOINES	56	27	65	21	41	10	T	.5	T	.1	10	1.5	45	72	28	0	6	1	0
DUBUQUE	49	26	60	20	38	8	.1	.5	.1	.1	9	2.9	71	81	39	0	6	1	0
STOUC CITY	57	23	67	14	40	9	T	.3	T	.2	33	1.0	45	68	21	0	6	1	0
KS CONCORDIA	61	28	65	25	45	7	0	.4	0	.7	100	.9	41	73	25	0	6	0	0
DODGE CITY	54	28	63	18	41	1	0	.3	0	.9	180	1.3	81	79	43	0	5	0	0
GOODLAND	48	24	60	14	36	2	0	.2	0	2.6	867	3.6	300	80	55	0	6	0	0
TOPEKA	61	29	68	22	45	6	0	.4	0	.4	57	.9	33	73	27	0	5	0	0
WICHITA	61	32	66	25	46	5	.4	0	.3	1.2	171	1.7	65	77	30	0	5	2	0
KY LEXINGTON	53	29	63	25	41	-1	.1	-1.0	.1	.9	41	5.8	60	82	36	0	6	1	0
LOUISVILLE	57	30	65	27	44	1	.2	.9	.2	.8	36	4.4	47	73	33	0	5	1	0
LA BATON ROUGE	70	45	76	41	58	-1	T	-1.1	T	.7	30	9.1	78	88	38	0	0	1	0

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

Weather Data for the Week Ending Mar. 15, 1981

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE 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	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
LAKE CHARLES	68	47	73	43	58	-1	.2	.7	.1	.8	44	6.0	57	76	45	0	0	2	0
NEW ORLEANS	71	47	79	41	59	-1	.2	1.2	.1	.1	4	9.3	77	76	39	0	0	1	0
SHREVEPORT	68	42	75	35	55	0	T	.9	T	.9	53	7.3	77	88	36	0	0	1	0
ME CARIBOU	32	20	35	10	26	5	.7	.2	.3	.8	80	5.2	96	71	55	0	7	2	0
PORTLAND	43	26	52	21	35	5	T	.8	T	.7	44	4.2	57	62	26	0	5	0	0
MD BALTIMORE	54	31	66	26	42	1	T	.9	T	.2	11	7.9	88	68	38	0	4	4	0
MA BOSTON	47	32	55	25	39	2	T	.1	T	.1	5.5	38	8.3	84	57	0	4	2	0
CHATHAM	44	30	47	24	37	-	T	.2	T	.2	3.3	88	68	38	0	4	2	0	0
MI ALPENA	39	22	48	13	31	7	.2	.2	.2	.3	38	2.8	70	70	70	0	7	1	0
DETROIT	46	26	59	17	36	2	T	.5	T	.1	10	3.7	80	87	42	0	7	3	0
FLINT	43	25	56	18	34	3	-1	.4	T	.1	11	2.7	63	86	49	0	7	4	0
GRAND RAPIDS	43	23	54	13	33	2	T	.5	T	T	0	2.4	55	89	48	0	7	0	0
HOUGHTON LAKE	39	24	48	13	30	5	.2	.2	.1	.2	25	3.3	89	77	51	0	7	3	0
LANSING	44	23	56	2	33	2	-1	.4	T	.1	10	2.0	44	85	48	0	6	2	0
MARQUETTE	38	15	48	5	26	6	.3	.1	.2	1.1	138	5.4	129	86	47	0	7	4	0
MUSKEGON	42	23	51	11	33	2	T	.5	T	T	1.1	10	86	50	0	6	0	0	0
SAULT STE. MARIE	34	15	39	5	24	2	.1	.2	.1	.3	43	3.4	81	82	56	0	7	3	0
MN DULUTH	39	23	47	20	31	10	T	.4	T	.1	13	1.8	62	77	46	0	7	0	0
INT'L FALLS	40	22	52	16	31	12	T	.2	T	T	0	.5	25	77	47	0	7	0	0
MINNEAPOLIS	50	27	61	20	38	12	T	.3	T	T	0	2.4	114	68	31	0	7	1	0
ROCHESTER	45	27	51	23	36	11	T	.4	T	T	0	2.2	122	82	49	0	7	0	0
SAINT CLOUD	48	23	65	15	36	12	T	.3	T	T	0	1.5	71	84	71	0	7	0	0
MS JACKSON	69	37	75	32	53	-2	T	1.3	T	2.3	88	7.7	65	88	35	0	1	1	0
MERIDIAN	71	36	76	32	53	-2	.1	1.4	.1	2.2	76	9.3	76	81	28	0	2	1	0
MO COLUMBIA	56	30	63	25	43	3	T	.5	T	.6	60	2.5	56	70	28	0	5	1	0
KANSAS CITY	59	30	66	24	45	6	0	.5	0	.3	30	1.1	30	72	29	0	4	0	0
SAINT LOUIS	57	35	68	30	47	6	T	.6	T	1.1	92	4.0	78	80	37	0	3	1	0
SPRINGFIELD	58	32	65	25	45	3	.4	.3	.4	1.2	100	3.9	72	76	30	0	5	1	0
MT BILLINGS	59	28	65	23	43	12	T	.2	T	T	0	.3	18	53	21	0	6	0	0
GLASGOW	57	24	63	19	40	17	T	.1	T	T	0	.1	9	77	26	0	7	0	0
GREAT FALLS	59	26	64	22	42	13	0	.2	0	.1	25	.9	43	65	19	0	7	0	0
HAVRE	57	24	61	20	40	16	T	.1	T	.1	50	.2	18	80	27	0	7	0	0
HELENA	58	22	62	18	40	11	0	.1	0	.1	33	.3	25	81	21	0	7	0	0
KALISPELL	58	22	62	21	40	11	0	.2	0	.2	50	3.7	119	90	30	0	7	0	0
MILES CITY	57	25	65	20	41	13	0	.1	0	0	0	.2	18	66	23	0	7	0	0
MISSOULA	61	22	63	20	41	10	0	.1	0	T	0	.9	41	83	22	0	7	0	0
NE GRAND ISLAND	59	27	66	23	43	7	0	.2	0	1.1	275	1.5	94	78	28	0	7	0	0
LINCOLN	61	25	69	18	43	9	0	.3	0	1.0	167	1.4	70	80	21	0	6	0	0
NORFOLK	56	24	67	17	40	9	0	.3	0	T	0	.5	28	69	19	0	6	0	0
NORTH PLATTE	58	21	63	17	39	7	0	.2	0	.8	200	1.1	85	90	26	0	7	0	0
OMAHA	58	30	64	23	44	11	0	.3	0	.4	67	.8	35	69	32	0	5	0	0
VALENTINE	56	21	67	13	39	9	0	.1	0	0	0	.2	18	76	21	0	7	0	0
NV RLY	49	24	53	22	36	5	.1	.1	.1	.7	175	1.7	121	76	38	0	7	2	0
LAS VEGAS	67	44	71	41	56	2	T	.1	T	.9	450	1.8	164	66	25	0	0	0	0
RENO	59	27	67	22	43	4	.2	.1	.2	.2	67	1.2	48	82	26	0	6	1	0
WINNEMUCCA	59	18	62	13	39	2	T	.1	T	T	0	1.0	50	74	20	0	7	0	0
NH CONCORD	43	22	52	13	33	2	.1	.6	.1	.3	23	8.5	133	76	41	0	7	1	0
NJ ATLANTIC CITY	49	27	61	23	38	-2	.1	.9	.1	.8	40	5.1	56	78	42	0	6	1	0
TRENTON	48	34	59	30	41	1	.1	.8	.1	.5	29	4.3	60	60	33	0	3	1	0
NM ALBUQUERQUE	58	34	62	28	46	2	.3	.1	.2	.6	200	1.4	117	82	30	0	3	3	0
ROSWELL	57	37	69	30	47	-1	.1	0	.1	.2	100	.7	64	--	--	0	1	1	0
NY ALBANY	44	26	57	17	35	3	T	.5	T	T	0	5.6	98	84	40	0	6	2	0
BINGHAMTON	39	23	53	15	31	2	.1	.5	.1	.3	23	5.1	84	86	64	0	7	4	0
BUFFALO	39	27	54	16	33	3	.3	.3	.1	.5	38	5.1	75	90	63	0	7	7	0
NEW YORK	48	34	57	28	41	2	.1	.8	.1	.7	39	6.7	85	59	42	0	3	1	0
ROCHESTER	41	26	55	17	34	3	.2	.3	.1	.3	27	4.7	80	78	52	0	7	5	0
SYRACUSE	44	28	60	18	36	5	.1	.6	.1	.3	21	4.3	62	82	53	0	6	2	0
NC ASHEVILLE	59	27	65	20	43	-2	.1	1.0	.1	.7	33	5.9	63	79	26	0	7	1	0
CHARLOTTE	61	31	67	28	46	-3	0	1.1	0	.5	24	4.6	47	70	22	0	6	0	0
GREENSBORO	58	31	65	20	44	-2	T	.8	T	.8	47	5.1	61	70	25	0	5	1	0
HATTERAS	54	31	60	22	42	-7	T	.9	T	.5	28	4.3	41	83	50	0	5	1	0
RALEIGH	58	27	68	19	42	-5	0	.8	0	.8	50	4.8	59	70	22	0	6	0	0
WILMINGTON	61	35	70	27	48	-5	0	1.0	0	1.6	80	5.8	67	83	31	0	3	0	0
ND BISMARCK	49	24	59	21	36	14	0	.1	0	T	0	.6	55	84	36	0	7	0	0
FARGO	48	22	66	18	35	13	T	.1	T	T	0	.6	55	84	36	0	7	0	0
WILLISTON	56	23	64	17	39	17	0	.1	0	0	0	.4	36	79	25	0	7	0	0
OH AKRON-CANTON	46	27	55	22	37	2	.1	.6	T	.4	31	5.8	92	74	43	0	6	4	0
CINCINNATI	50	25	59	20	37	-2	.2	.7	.2	.8	44	5.3	64	71	36	0	7	1	1
CLEVELAND	46	28	57	21	37	2	.1	.5	.1	.2	17	3.8	59	78	46	0	6	4	0
COLUMBUS	50	30	60	24	40	3	T	.7	T	.5	36	5.9	88	72	39	0	6	2	0
DAYTON	48	28	59	21	38	1	T	.7	T	.7	50	4.3	66	74	43	0	6	1	0
TOLEDO	47	26	60	11	37	3	T	.5	T	.1	10	4.0	82	83	44	0	7	2	0
YOUNGSTOWN	44	28	55	20	36	3	.4	.3	.2	.5	36	5.2	76	70	44	0	5	6	0
OK OKLAHOMA CITY	65	39	71	32	52	5	1.0	.6	.5	2.3	288	3.6	103	82	33	0	1	3	1

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

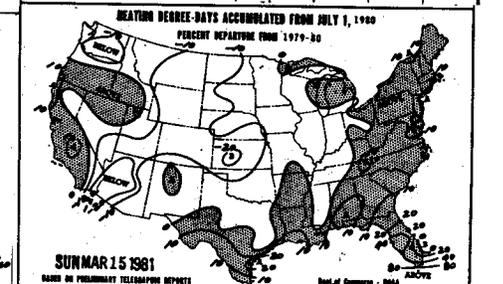
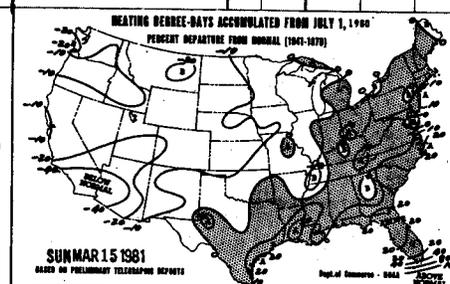
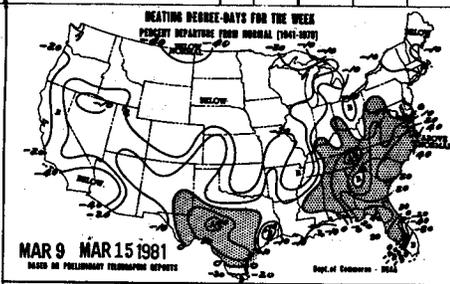
Weather Data for the Week Ending Mar. 15, 1981

STATES AND STATIONS	TEMPERATURE °F							PRECIPITATION							RELATIVE HUMIDITY PERCENT		NUMBER OF DAYS			
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Mar. 2	PCT. NORMAL SINCE Mar. 2	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	
OR TULSA	65	37	70	32	51	4	.3	.2	.3	1.3	130	3.7	86	84	27	0	2	1	0	
OR ASTORIA	58	39	67	36	49	5	.4	1.1	.4	1.0	31	12.1	58	88	27	0	0	1	0	
BURNS	58	25	60	22	41	6	.2	0	.2	.4	100	2.1	62	89	64	0	0	2	0	
MEDFORD	61	36	69	30	49	5	.2	.2	.1	.6	67	3.0	45	90	52	0	2	3	0	
PENDLETON	59	36	61	33	47	4	.3	.1	.3	.4	100	2.7	82	89	47	0	0	1	0	
PORTLAND	62	41	66	36	51	6	.5	.4	.5	1.5	83	6.9	58	88	56	0	0	1	0	
SALEM	61	36	66	29	49	4	.4	.6	.4	1.4	64	6.8	49	--	42	0	1	1	0	
PA ALLENTOWN	45	30	56	25	38	1	.1	.7	.1	.6	38	5.9	79	71	62	0	4	1	0	
ERIE	40	27	53	16	33	2	.3	.3	.1	.5	42	6.6	110	--	45	0	4	1	0	
HARRISBURG	47	31	58	26	39	0	.1	.6	.1	.7	50	7.0	106	--	0	0	7	4	0	
PHILADELPHIA	48	32	60	27	40	0	.1	.7	.1	1.0	63	4.5	64	58	38	0	4	1	0	
PITTSBURGH	45	26	56	20	36	0	.1	.7	T	.8	53	5.5	82	76	43	0	7	4	0	
SCRANTON	43	29	56	21	36	2	T	.5	T	.2	18	8.9	171	73	46	0	6	1	0	
RI PROVIDENCE	48	28	57	22	38	3	0	.9	0	.1	6	5.7	64	76	35	0	6	1	0	
SC CHARLESTON	68	36	73	32	52	-4	0	1.1	0	.5	23	3.7	43	83	25	0	1	0	0	
COLUMBIA	66	29	71	24	48	-5	0	1.1	0	.5	23	5.4	56	89	21	0	5	0	0	
GREENVILLE	62	31	67	26	47	-3	0	1.2	0	.7	29	4.8	44	58	22	0	4	0	0	
SD ABERDEEN	50	21	61	14	35	10	0	.2	0	T	0	.4	31	75	33	0	7	0	0	
HURON	55	17	70	14	36	9	T	.2	T	0	0	.1	6	82	27	0	7	0	0	
RAPID CITY	57	26	65	21	42	12	0	.2	0	0	0	.3	23	60	20	0	7	0	0	
SIoux FALLS	54	23	66	15	39	11	T	.3	T	0	0	.5	23	60	27	0	7	0	0	
TN CHATTANOOGA	61	29	68	26	45	-3	.2	1.1	.2	1.3	48	8.5	22	75	25	0	7	1	0	
KNOXVILLE	58	30	66	25	44	-4	.1	1.0	T	.9	39	5.7	48	80	32	0	5	1	0	
MEMPHIS	65	40	74	35	52	3	.1	1.0	.1	1.6	73	6.6	55	68	36	0	0	2	0	
NASHVILLE	61	29	69	24	45	-2	.2	1.0	.1	1.1	46	6.6	56	78	31	0	6	1	0	
TX ABILENE	60	44	71	39	52	-1	.2	.1	.2	1.9	633	4.5	188	86	58	0	0	2	0	
AMARILLO	58	33	62	26	46	2	1.0	.9	.6	1.8	900	2.1	191	92	46	0	2	4	1	
AUSTIN	64	48	75	44	56	-3	.6	.2	.3	2.5	278	5.9	97	90	60	0	0	3	0	
BRAUNOWT	69	50	77	47	60	1	.3	.4	.2	1.7	113	8.5	85	77	50	0	0	2	0	
BROWNSVILLE	71	57	82	49	64	-3	3.4	3.2	2.6	3.4	850	6.0	176	63	70	0	0	3	2	
CORPUS CHRISTI	66	53	80	50	60	-4	2.4	2.2	1.5	2.4	480	6.8	162	85	64	0	0	4	1	
DEL RIO	64	50	78	45	57	-4	.8	.7	.5	1.0	333	1.9	95	90	51	0	0	3	0	
EL PASO	67	42	73	38	55	1	.1	0	.1	.4	133	2.0	167	76	30	0	0	2	0	
FORT WORTH	64	44	70	35	54	0	T	.5	T	2.5	250	4.9	92	92	50	0	0	1	0	
GALVESTON	64	54	75	51	59	-1	.2	.4	.1	.3	23	3.8	54	83	63	0	0	3	0	
HOUSTON	71	49	81	44	60	0	.5	.1	.5	1.2	92	5.8	67	90	49	0	0	1	0	
LUBBOCK	59	40	67	35	50	2	.5	.3	.3	1.2	300	2.1	162	91	48	0	0	3	0	
MIDLAND	57	40	70	34	48	-5	.1	0	.1	.4	133	1.7	142	80	61	0	0	4	0	
SAN ANGELO	59	40	72	35	50	-6	1.2	1.0	1.1	2.2	550	4.5	225	86	60	0	0	2	1	
SAN ANTONIO	66	48	79	44	57	-3	.8	.5	.5	1.2	171	5.0	106	94	59	0	0	3	0	
VICTORIA	67	51	80	47	59	-2	.8	.4	.4	.9	113	4.3	86	95	60	0	0	4	0	
WACO	63	43	71	36	53	-3	.3	.2	.2	1.3	130	4.5	85	96	57	0	0	2	0	
WICHITA FALLS	65	41	73	36	53	2	.5	.1	.4	1.7	243	5.2	168	94	44	0	0	2	0	
UT BLANDING	50	27	53	24	39	2	1.1	.9	.6	2.4	600	2.8	112	92	55	0	7	3	1	
SALT LAKE CITY	56	34	60	28	45	6	T	.4	T	.3	43	1.8	55	81	39	0	3	0	0	
VT BURLINGTON	38	24	48	16	31	4	.3	.1	.2	.6	75	6.5	155	89	61	0	7	3	0	
VA LYNCHBURG	57	28	71	24	43	-1	0	.8	0	.6	38	4.9	68	65	--	0	6	0	0	
NORFOLK	57	31	70	26	44	-3	T	.8	T	.5	31	3.8	45	75	28	0	5	1	0	
RICHMOND	59	27	71	23	43	-3	T	.8	T	.5	31	3.9	51	74	24	0	7	0	0	
ROANOKE	55	31	67	24	43	-1	0	.8	0	.4	27	3.2	43	58	27	0	6	0	0	
WA COLVILLE	60	28	65	25	44	8	0	.3	0	.6	100	3.4	83	--	--	0	7	0	0	
OMAK	64	29	67	26	47	10	T	.2	T	.5	125	3.6	116	--	--	0	6	1	0	
QUILLAYUTE	58	37	66	32	47	5	1.0	1.5	.9	2.3	45	17.9	56	97	59	0	1	2	1	
SEATTLE-TACOMA	60	44	67	39	52	8	.2	.6	.2	.9	53	7.8	67	80	58	0	0	1	0	
SPOKANE	58	29	66	24	44	7	0	.4	0	.1	14	2.5	50	92	35	0	6	0	0	
WALLA-WALLA	61	38	63	34	50	5	.3	0	.3	.9	150	5.1	119	85	50	0	0	1	0	
YAKIMA	64	32	67	28	48	7	T	.1	T	.1	33	1.7	71	86	37	0	5	1	0	
WV BECKLEY	45	25	60	20	35	-4	T	1.0	T	.7	37	3.4	38	64	36	0	6	1	0	
CHARLESTON	52	30	64	21	41	-2	T	.9	T	.5	28	6.1	70	69	31	0	4	0	0	
HUNTINGTON	53	32	66	27	42	-1	T	1.0	T	.7	37	5.6	69	59	33	0	3	1	0	
PARKERSBURG	49	32	60	28	41	0	T	.8	T	.5	31	4.5	60	71	36	0	3	1	0	
WI GREEN BAY	46	25	57	21	36	9	T	.3	T	.1	17	2.8	97	82	33	0	7	1	0	
O LA CROSSE	50	27	58	12	38	9	T	.4	T	0	0	2.3	88	78	39	0	4	1	0	
MADISON	50	24	62	18	37	9	.1	.3	.1	.1	13	2.6	81	71	32	0	6	1	0	
MILWAUKEE	46	27	59	19	37	7	0	.5	0	T	0	3.2	84	70	34	0	7	0	0	
WY CASPER	55	18	58	13	37	7	0	.2	0	T	0	.7	54	--	17	0	7	0	0	
CHEYENNE	52	24	57	20	38	8	0	.2	0	.2	50	.7	54	81	25	0	7	0	0	
LANDER	54	26	59	24	40	10	T	.2	T	0	0	.9	60	64	22	0	7	0	0	
SHERIDAN	57	23	62	20	40	11	T	.2	T	0	0	.6	32	64	19	0	7	0	0	
PR SAN JUAN	86	75	91	72	80	4	0	.4	0	2.3	256	7.7	107	76	53	1	0	0	0	

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

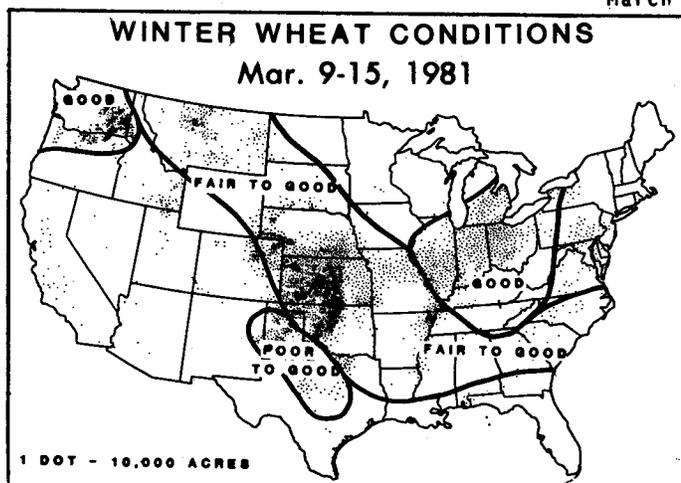
HEATING DEGREE DAYS (BASE 65°) FOR WEEK ENDING MAR. 15, 1981.
BASED ON 1941-70 NORMALS.
* ACCUMULATION FROM JULY 1, 1980.

Table with columns for STATES AND STATIONS, WEEKLY (TOTAL, DEPARTURE*), SEASONAL ACCUMULATION (TOTAL, DEPARTURE*), and DEPARTURE FROM 1979-80. Rows list various cities across the United States.



National Agricultural Summary

March 9-15, 1981



HIGHLIGHTS: Precipitation from Kansas through Texas continued to improve winter wheat conditions and coupled with mild temperatures allowed the crop to make rapid growth. However, more rain is needed to sustain growth. Farmers had up to 6 days suitable for fieldwork throughout the South, and in some northern areas up to 7 days were available. Soil moisture supplies varied from short to adequate across the Nation. Winter wheat rated fair to good, except in Texas where conditions ranged from poor to good; greening extended northward into Montana. Corn planting became widespread across the South. Wet soils delayed cotton planting in Texas, but planting in Arizona moved rapidly as fields dried. Sorghum planting was well advanced in Texas. Rice planting was on schedule in Louisiana. Pastures rated mostly fair to good; recent rains improved conditions. Deciduous fruit growers continued to prune and spray trees. Livestock were in fair to good condition. Calving and lambing remained active.

SMALL GRAINS: Winter wheat condition was fair to good in all major producing States except Texas where conditions varied from poor to good. The crop was greening as far north as Montana and was jointing across the South. Growers spread fertilizer as field conditions permitted.

Kansas winter wheat made rapid growth due to recent rainfall and mild weather, but more rain is needed to sustain the current growth rate. Greenbugs are generally light, although some localities have heavy infestations where control measures are necessary. Spring oats were 70% planted and spring barley seeding was 40% complete.

Warm temperatures and weekly rains improved wheat conditions in Oklahoma. Producers continued spraying fields to control insects and weeds.

Small grain fields in Texas benefited greatly from recent rainfall, although soil moisture was still short in many areas. Greenbugs and grain mites posed a serious problem in the Blacklands and Cross-Timbers; recent showers interrupted spraying activities. Wheat conditions varied from poor to good across the State.

Montana winter wheat was in fair condition and greening. There was no snowcover and wind damage was reported light.

Pacific Northwest winter wheat rated good. Seeding of spring grains was underway.

OTHER CROPS: Corn planting became widespread throughout the South, reaching 12% complete in

Louisiana and Mississippi, 15% in Texas, and 17% in Alabama. Rain slowed progress in some areas, but provided good pre-planting moisture.

Cotton planting in the lower Rio Grande Valley was interrupted by rain with some recently seeded fields washed out by locally heavy rains. Land preparation for planting was in full swing on the Plains. Seedbed preparations and planting in Arizona progressed at an accelerated rate as fields dried. California growers continued preparing fields for planting.

Texas sorghum planting advanced to 24% complete, about equal to the average progress. Planting in Arizona progressed as field conditions allowed.

Tobacco plantbeds rated fair to mostly good, except in Virginia where good to excellent conditions were reported. Transplanting got underway in Georgia.

Louisiana rice planting was 10% complete, 3 points ahead of last year.

FRUITS AND NUTS: Deciduous fruit growers pruned and sprayed trees in Northern areas. Peaches were blooming as far north as South Carolina and were ready to bloom in Virginia; trees in this stage are very susceptible to damage from frost.

Florida's citrus trees continued to produce new growth and bloom buds. Blooms were open in some southern groves. Soil moisture was still short and irrigation was active in all areas.

Arizona's citrus groves were in good condition with new blooms and foliage evident. The lemon and grapefruit harvest was seasonally slow, but the Valencia orange harvest picked up momentum. Deciduous fruits made good progress.

In Texas, grapefruit and late orange picking was delayed by rain. Peach trees continued to bloom, and pecan trees were beginning to bud in south and central Texas.

Harvesting of lemons, grapefruit, Navel oranges, and avocados continued in California. Almonds were leafing out, except for late varieties which were in the late petal fall stage. Movement of bee hives from the almond orchards continued.

VEGETABLES: Mild days and cool nights continued in Florida's vegetable growing areas, slowing growth of some crops. Total shipments were 4% above the previous week. Shipments of carrots, chinese cabbage, sweet corn, squash, and strawberries were up considerably; cabbage and parsley increased slightly. Snap beans, celery, cucumbers, escarole, and lettuce held steady while cauliflower, eggplant, okra, peppers, potatoes, radishes, and tomatoes decreased.

Arizona's lettuce and mixed vegetable harvest resumed as fields dried. Vegetables for later harvest made normal progress. Growers continued planting of cantaloups and watermelons.

Rain and wet field conditions slowed planting and harvesting activities in most areas of Texas. Cool temperatures caused some damage to early planted vegetables in south Texas.

On the Central Coast of California, the broccoli and cauliflower harvest was active and supplies of artichokes increased. Asparagus volume increased from the Delta-Salinas Valley and cutting was active in the Desert. Celery harvesting was active on the South Coast and planting took place on the Central Coast. Growers in the Palo Verde Valley harvested lettuce. The processing spinach harvest got underway in the San Joaquin Valley. Strawberry volume increased from the South Coast. Tomato planting continued in interior valleys as weather permitted.

PASTURE AND LIVESTOCK: Pastures generally rated fair to good and were improving due to recent rainfall and mild temperatures. Ranchers moved cattle off winter wheat earmarked for grain harvest.

Texas ranges and pastures continued to improve; rains during the week helped promote

growth. California ranges made good growth as a result of warm temperatures.

Calving and lambing advanced on schedule with losses below normal because of mild weather. Cattle were in fair to good condition. Feed supplies rated adequate except in a few isolated areas.

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 4° subnormal. Rain less than 0.50 in. most stations.

Fieldwork: 5.0 days suitable. Soil moisture mostly adequate. Plowing 67% complete. Corn planted 17%, 7% 1980. Fieldwork on schedule. Feed supply from pasture short. Stored feed supply very short to short. Condition: Wheat fair; livestock fair; pastures poor to fair. Activities: Plowing, spreading lime and fertilizer, planting corn, making garden preparations, orchard maintenance, care of livestock and poultry.

ARIZONA: Two storm systems moved across State during week but precipitation was mostly confined to north, central sections; amounts generally 0.10 to 0.50 in. Snowfall down to 4,500 ft. level; amounts from 2.00 to 12.00 in. Mogollon Rim, White Mountains. Average temperatures ranged 3° below to 5° above normal.

Seedbed preparations, planting cotton progressing at accelerated rate as fields dried. Small grains in west progressing well, head emergence, seed setting continues; other areas in joint stage. Sugarbeets making excellent progress Yuma, Salt River Valley. Top, tap root development unusually advanced this time of year. Cut, windrowed alfalfa western area received considerable damage from recent rains. Cutting picking up as fields dried. Safflower made good progress. Land preparation and limited planting of corn, sorghum as field conditions allowed. Lettuce, mixed vegetable harvest in Yuma, Salt River Valley resumed as fields dried. Vegetables for later harvest making normal progress. Planting cantaloups, watermelons, resumed as fields dried. Lemon, grapefruit harvest low, limited demand. Valencia harvest picking up. Citrus groves good condition; new bloom, foliage. Deciduous fruits making good progress. Ranges poor to fair. Livestock fair to good. Water adequate.

ARKANSAS: A cool, dry week. Highest temperature 75°, lowest 20°. All departures from normal ranged from 0 to -5°. Most rainfall 0.18 in., least zero.

Wheat condition good. Development ahead of normal, some jointing in south. Nitrogen fertilization nearing completion. Field preparation for other crops making rapid progress. Average six days suitable for fieldwork. Pastures needing moisture for additional forage cover; only wheat and rye grass pasture rated adequate. Livestock good condition; cattle gradually being taken off feed.

CALIFORNIA: Temperature was generally 2 to 4° above normal in all areas. Rainfall was confined to the last two days in the week and was heaviest along the coast and in the Sierra Nevada with only light amounts in the Central Valley.

Recurrent rains and mild temperatures beneficial to small grains. Early plantings headed while remainder boot stage. Broadleaf weed control being applied. Alfalfa field spraying to control weevils. Sugarbeet and cotton fields continue to be worked up. Sugarbeet crop developing well. Harvest of lemons, grapefruit, Navel oranges, and Bacon variety avocados continued.

Almonds leafing out, except late varieties in late petal fall. Kiwi beginning to leaf out North Sacramento Valley. Artichokes increasing Central Coast. Asparagus volume increased Delta-Salinas Valley; cutting active Desert. Broccoli, cauliflower harvest active Central Coast. Carrot pulling active Desert. Celery harvest active South Coast; planting active Central Coast. Lettuce harvest active Palo Verde Valley. Potato harvest slow Riverside, Kern Counties. Processing spinach harvest started San Joaquin Valley. Strawberry volume increasing South Coast. Tomato planting continues interior valleys as weather permits. Range feed made good growth, result warm temperatures. Stockwater supplies adequate. Calving tapering off North Coast district. Sheep shearing underway Sacramento, San Joaquin Valleys. Bee hive movement from almond orchards continues.

COLORADO: Mostly fair weather prevailed over the Eastern Plains, with occasional snow showers in the mountains and west. Isolated precipitation occurred in the southeast. Temperatures near seasonal normals in the Platte and Arkansas Basins, nearly 3° below normal in the Kansas Basin. The Rio Grande Basin was 4° above normal and the Colorado Basin was 5° above normal.

FLORIDA: High pressure dominated, with a weak trough developing 11th through 13th causing increasing cloudiness with patchy sprinkles over much of State. Precipitation amounts were insignificant with 0.10 in. or less, except along the lower east coast where about 1.00 to 1.50 in. fell in the Palm Beach area.

Soil moisture short central, lower northern areas, mostly adequate extreme south, upper north and western edge of Panhandle. Corn planting continues active. Early planted corn up to good stands. Tobacco transplanting just beginning. Peanut land being prepared. Sugarcane harvest about complete. Condition of young cane improving. Small grains excellent growth but many fields show effects of earlier dry weather. Pastures poor to fair. Fertilization becoming active. Additional moisture needed. Cattle fair to good. Citrus trees continue to produce new growth and bloom buds. Bloom open south end citrus belt. Soil moisture less than adequate. Caretakers irrigating all areas. Mild days, cool nights continued vegetable areas. Skies mostly clear except 13th when patchy light rains occurred. Rainfall insignificant except Palm Beach area with 1.00 to 1.50 in. Total shipments 4% above the previous week. Shipments for carrots, Chinese cabbage, sweet corn, squash, strawberries up considerably; cabbage, parsley also increased. Snap beans, celery, cucumbers, escarole, lettuce held steady but cauliflower, eggplant, okra, peppers, potatoes, radishes, tomatoes decreased. Strawberry harvest continues active some areas. Watermelon progress slowed by cooler weather.

GEORGIA: Unseasonably cool and dry. No rain reported, and temperatures averaged about 5° below normal. In general, coolest temperatures

occurred midweek. Warmer weather and some light rain over 14th and 15th. Isolated showers early 14th produced generally only trace amounts in northern and southern tier of counties. Scattered showers night 15th produced generally less than 0.10 in. Isolated amounts near 0.25 in.

Soil moisture adequate except in south where more rain is needed. Active spring planting south, especially corn. Topdressing continues. Small grains and tobacco plants fair to mostly good condition. Tobacco transplanting has begun. Pasture and livestock conditions mostly fair to good.

HAWAII: Weather favorable. Showers light and beneficial, some parts Hawaiian chain. Heavy irrigation in major crop areas, Island of Maui. Crop progress fair to good. Spraying frequent minimizing disease, insect infestations. Vegetables: Head, Chinese cabbage moderate to heavy supplies. Others generally light. Bananas: Some orchards active harvest. However, total supplies light. Papayas: Supplies moderate. Showers beneficial. Spraying frequent to minimize losses from disease and insects. Pineapples: Harvesting down and erratic. Sugar: Most mills in operation. Pastures: Rains added more moisture. Dry areas continue poor.

IDAHO: Temperatures 3 to 6° above normal. Some areas in southeast 11° above normal. Precipitation nearly zero. Warm, dry conditions reducing snowpack greatly.

Increase in spring fieldwork. Plowing, disking, fertilizing and planting becoming more active. Lack of moisture becoming more threatening. Calving and lambing going strong in many places. Calf and lamb crops in good shape. Feed supplies stable.

ILLINOIS: Temperatures 5 to 11° above normal. Precipitation nearly 0.20 in. northeast, 0.45 in. south, none to 0.10 in. other areas.

Winter wheat and livestock in mostly good condition. Activities: Machinery repair, livestock feeding, manure hauling, general farmwork.

INDIANA: Warm and dry. Temperatures averaged near 40°, 3° above normal and ranged from 20 to 65°. Precipitation occurred on weekend ranging 0.10 in. north and central, and 0.20 in. south. Sunshine 71% of possible.

Soil temperatures averaged 34 to 39°. Soils drying and becoming workable. Activities: Spreading lime, fertilizer and manure; repairing fences and removing fence rows; sowing clover and grass seed; limited tilling; pruning fruit trees and vines; making plans and preparations for the coming crop year; caring for livestock and usual chores.

IOWA: A warm, dry week. Temperatures averaged about 8° above normal. Only a few localities reported measurable precipitation.

KANSAS: Light precipitation and warm temperatures prevailed. Rainfall: 0.33 to 0.67 in. south central and southeast, up to 0.67 in. along the Kansas-Oklahoma border. Mean temperatures ranged 2° above normal southwest to 8° above normal north central area. Remainder of State 4 to 7° warmer than normal.

Wheat makes rapid growth with recent moisture and mild weather but more rain needed to sustain current growth rates. Greenbugs generally light, some localities heavy infestations and control necessary. Seeding ahead of normal with spring barley 40% complete, spring oats 70% complete. Farmers topdressing wheat, preparing seedbeds for spring planting where moisture favorable.

KENTUCKY: Temperatures were about 2° warmer than normal and precipitation averaged about 0.25 in.

Field activity increased with the arrival of spring-like weather. Farmers spreading fertilizer and manure. Pasture renovation and seeding grass in some areas. Some preparation of tobacco beds.

LOUISIANA: Rainfall minimal. Temperatures normal to 1° below normal. Extremes: 32 and 79°.

Soil moisture adequate. Fieldwork: 5.1 days suitable. Spring plowing 41% complete, 27% 1980. Corn planted 12%, 20% 1980. Rice planted 10%, 7% 1980. Irish potato planting active. Vegetables fair to good. Wheat, pastures, livestock fair to good. Supplemental feeding continued.

MARYLAND AND DELAWARE: Temperatures averaged near normal. Highs averaged upper 40's to low 50's, lows averaged in the low 30's. Precipitation was extremely light. Oakland reported the highest at 0.22 in., while the rest of Maryland averaged from a trace to 0.07 in. of precipitation.

MICHIGAN: Temperatures above normal and precipitation light. Temperatures averaged 2 to 7° above normal. Precipitation averaged 0.10 in. Upper and 0.05 in. Lower.

MINNESOTA: Temperatures averaged 8 to 10° above normal in extreme southern districts, 9 to 10° above normal in northeast district, up to 17° above normal in northwest district, 12 to 14° above normal elsewhere. Extremes: 69° at Morris and 11° at Pipestone. Precipitation averaged 0.20 to 0.30 in. below normal in all districts except northwest 0.14 to 0.19 in. below normal, southeast up to 0.40 in. below normal, northeast up to 0.37 in. below normal. Precipitation totals were trace or less at all but a few stations in the northern districts and the east central district. Snowdepth continues to decrease; zero except locally in the extreme northern districts up to 5 in.

MISSISSIPPI: Temperatures ranged below normal. Extremes: 21 and 78°. No rain most locations. Light rain in southern area late in week with most locations less than 0.10 in.

Soil moisture adequate to short. Fieldwork: 5.0 days suitable. Fertilizing wheat, breaking land and preparing seedbeds main farm activities. Plowing 52% complete. Corn 12% planted. Winter wheat 15% jointing; good to fair condition. Watermelons 3% planted. Hay, roughage and feed grain supplies short to adequate. Pasture condition fair to good. Livestock condition fair to good.

MISSOURI: Temperatures averaged near normal. Precipitation was nonexistent in nearly all areas.

MONTANA: No precipitation. Very mild weather as temperatures averaged from 9 to 17° above normal. Highest 69° at Hamilton, lowest zero at West Yellowstone.

Winter wheat condition generally fair and greening. No snowcover, wind damage light. Cutworm infestations reported in southeastern areas. Topsoil moisture mostly short except adequate in northwest. Subsoil moisture short to adequate. Field tillage work underway. Some early seeding started, especially in south central areas. Fieldwork: 7.0 days suitable. Range grass greening in some areas. Cattle and sheep condition good. Calving and lambing 30%; shearing 45% complete. Grazing open. Stockwater supplies short eastern third, short to adequate elsewhere.

NEBRASKA: No precipitation. Temperatures averaged 6 to 11° above normal.

NEVADA: Weak, low pressure systems produced light scattered showers. Up to 6 in. of snow accumulated higher terrain in central areas. Temperatures dropped 5 to 15° near end of period

but averaged well above normal most areas.
Extremes: 73 and 13°.

Seedbed preparation delayed by scattered showers and gusty winds. Calving, lambing good progress.

NEW ENGLAND: Temperatures generally 3 to 5° above normal, except slightly below normal by weekend. Precipitation generally in eastern Maine, coming from coastal storm on 14th.

Higher than average sugar content in maple sap. Flow has been intermittent with several good days.

NEW JERSEY: Temperatures averaged near normal. Extremes were 20° at Long Valley on the 11th and 64° at Hammonton on the 13th. Rainfall averaged 0.12 in. north, 0.11 in. central and 0.17 in. south. Soil moisture, in percent of field capacity, averaged: 100 north, 99 central and 98 south. Four inch soil temperature averaged: 34° north, 30° central and 41° south.

Farm activity beginning. Lime and fertilizer spreading, fruit pruning and some soil preparation done during the period. Some wintered over crops cultivated and early greens planted under plastic.

NEW MEXICO: Temperatures averaged within a couple of degrees of normal. Recurring showers of rain and snow.

Soil moisture in short supply, however recent rains have improved conditions in some areas. Farm activities were pre-irrigating, fertilizing, and land preparation where not interrupted by rain and snowfall. Irrigated wheat in good condition while dryland wheat in poor to fair condition. Barley in fair to good condition. Alfalfa fields in good condition and showing growth. Ranges in fair condition. Cattle and sheep remain in fair to good condition with calving and lambing underway.

NEW YORK: Moderate temperatures and light precipitation. Scattered rain or snow occurred almost daily but with insignificant amounts. Totals ranged from 0.25 to 0.50 in. in the Adirondacks, but elsewhere 0.10 in. or less. Temperatures were normal or a little above normal through the 13th with sharp cooling on the 14th. Water situation has improved.

Maple sugaring activity picking up.

NORTH CAROLINA: Temperatures 3 to 5° below normal. Precipitation nonexistent except from 0.10 to 0.25 in. over the mountains.

Soil moisture: 4% very short, 73% short, 23% adequate. Fieldwork: 5.9 days suitable. Conditions: Wheat, oats, barley, and rye fair to mostly good; tobacco beds and Irish potatoes fair to mostly good; pastures mostly fair to good. Plantings: Spring potatoes 56%, average 10%; spring cabbage progressing. Supplies: Hay, roughage, and feed grains mostly adequate. Major activities: Preparing land for spring planting, caring for tobacco plant beds, topdressing small grains and pastures, planting spring cabbage and Irish potatoes, pruning fruit trees and planting gardens.

NORTH DAKOTA: Another dry and very mild week. Temperatures averaged 13 to 18° above normal. Extremes: 13 and 68°. Record breaking temperatures occurred at Fargo on the 11th with 59°, and on the 14th with 66°. Very dry; no measurable precipitation was reported for the second consecutive week.

High winds during the weekend kicked up dust. Blowing soil is a problem over most of the State. Some farmers were out ridging, using tillage to help stop soil erosion. Also, a few rigs were out applying dry and liquid fertilizer but there is still frost in the ground. A few more

weeks of warm weather with some rain is needed before planting can get off to a good start. Weather was excellent for calving and lambing. Hay supplies short and of poor quality. Farmers continue to get ready to plant by looking over machinery, cleaning seed and lining up supplies. Some farmers very uncertain about what to plant, especially in the drier areas.

OHIO: Average high temperatures ranged from 40 to 50°. High was 63° in the south. Average lows were from the upper teens to the upper 20's. Precipitation totals were below normal; less than 0.33 in. at most stations. Soil temperatures at 4 in. under bare ground fell into the 30's most nights. Extensive cloud cover kept highs from getting far into the 40's in central and north. Means were from the mid-30's north to low 40's south.

Plowing for spring planted crops continued. Farmers also took advantage of dry weather to fertilize for upcoming planting and to topdress wheat. Wheat looks good in most areas.

OKLAHOMA: Temperatures averaged 1 to 2° above normal. Much needed rains received in all divisions but southeast. Rainfall totals ranged 1.44 in. southwest to 0.17 in. southeast.

Warm temperatures and weekly rains improving wheat crop outlook. Surface soil moisture mostly adequate eastern two-thirds State. Subsoil moisture adequate primarily north central, south central and southeast counties. Wheat making good growth. Insect activity increasing with warmer temperatures. Producers continue spraying to control insects and weeds. Alfalfa fair to good condition and making good growth. Cool-season grasses responding to warmer temperatures and improved surface moisture supplies. Run-off needed to replenish low stock ponds. Days suitable fieldwork: 4.5.

OREGON: Warm daytime temperatures continued and ranged from the high 40's to the high 60's. Brookings, along the coast, recorded the warmest temperature for the week, 73° on the 12th. Night-time lows ranged from 12° in the northeastern section to 49° at North Bend along the coast. Little rain fell. Coastal stations received an average of less than 0.50 in., southwestern valley stations received 0.10 in.; the rest of the State less than 0.10 in. Additional rain began to fall on 15th.

Soil moisture supplies adequate. Winter wheat condition good. Seeding of spring grains underway at the lower elevations. Early potatoes continue to go in. Pruning, planting and spraying of fruit orchards continues. Pastures greening up

PENNSYLVANIA: Cool, unstable air kept skies cloudy to partly sunny and winds brisk most of the week. Temperatures over and near normal with maximums in the 30's and 40's and minimums in 20's and 30's. Extremes: 10 and 65°. Sprinkles or light rain and snow showers almost daily. Precipitation 0.10 in. southeast and central to 0.40 in. west.

PUERTO RICO: Island average rainfall 0.17 in. or 0.34 in. below normal. Temperatures averaged about 78 to 77° on Coasts and 73 to 72° Interior Divisions. Extremes: 92 and 50°.

SOUTH CAROLINA: Temperatures averaged below normal. Frost occurred on four to six mornings inland and one to two mornings near the coast.

Unusually dry conditions and low relative humidity has made woodlands vulnerable to fire. Early tomatoes and small grain along south coast in good condition. Development of other vegetables slowed by cool temperatures. Peaches starting bloom in Piedmont.

SOUTH DAKOTA: Warm, dry weather continued. Temperatures were above normal over the State, while only the extreme southeastern portion received measurable precipitation. Temperatures averaged from the mid-30's to low 40's, with maximum readings ranging from 60 to 72°, and minimum values mostly in the mid-teens. Faulkton and Pierre recorded 72°, while Ralph dipped to 6° and Camp Crook 8° for the extremes. Average temperatures were about 10° above normal. Thundershowers dropped small amounts of moisture in the southeast on 14th. Only 0.02 in. was recorded at Sioux Falls and at Sioux City, Iowa. Radar indicated other shower activity over the southeast. At this time most reporting stations have recorded only 15 to 30% of their normal year-to-date precipitation amounts.

Soil erosion reported from various portions of the State, especially in the Cottonwood and Philip region. Some blowing of soil and soil in ditches has been noted over much of the State.

TENNESSEE: High pressure dominated until the 12th. A weak cold front brought light rain at the end of the week. Temperatures were mostly below normal. Rainfall amounts averaged less than 0.25 in.

Fieldwork: 5.0 days suitable. Soil moisture short to adequate. Spring plowing 49% complete, 1980 30%, average 32%. Tobacco plantbeds 65% seeded, 1980 30%, average 41%. Pastures 55% poor, 41% fair, 4% good. Livestock in good condition. Wheat and oats in fair to good condition. Farm activities include small grain topdressing, pasture renovation, spring plowing and garden preparation.

TEXAS: Weather: High pressure dominated most week; brought moisture from Gulf, causing rain West Texas. End week upper level disturbance triggered scattered showers. Temperatures near normal East Texas, 3 to 5° below normal elsewhere. Rainfall 0.25 to 0.50 in. above normal West Texas; 1.50 in. above normal South Texas, elsewhere near normal.

Range and livestock: Range, pastures continued to improve. Rains during recent weeks helped promote growth of grasses, weeds, small grain pastures. Livestock conditions improving. Supplemental feeding continues.

Commercial vegetables: Rio Grande Valley harvesting activities, slowed due to wet fields. Some lettuce, cabbage harvest. Harvesting of onions begun. Melons, onion, potatoes show good growth. Harvest of grapefruit, late oranges slowed by rain. South Texas, some damage to early planted vegetables from cool temperatures. San Antonio-Winter Garden area, harvest slow. Onions progressing well. East Texas, rains delayed most activity. Watermelon, tomato planting made little progress. Onion, potatoes doing well. North Texas, rains provided needed moisture, delayed field progress. Trans-Pecos region potato planting expected soon. Onions, cabbage making good progress. High Plains land preparation for onion, potato planting continued. Rains helpful in restoring topsoil moisture. Peach trees continued to bloom. Pecan trees beginning to bud, South, Central Texas.

Crops: Light rains most of State, much-needed relief widespread dry conditions. Rains greatly improved surface moisture, subsoil moisture still short many areas. Land preparation, planting interrupted. Cotton planting interrupted Lower Valley widespread showers. Some recently seeded fields washed out by locally heavy rains; to be replanted. High, Low Plains, land preparation full swing. Sorghum planting progressing rapidly South, South Central Texas. Early fields good stand. Late planted fields the Lower Valley washed out heavy rains. Early planted corn fields good stand Blacklands southward. Rains provided good pre-

plant moisture. Small grain fields benefited greatly from recent showers. Rains improved dry-land wheat Northern High Plains; moisture still short. Cattle moved off some wheat fields grazed too close. Wheat beginning joint, boot North to Cross-Timbers. Greenbugs, grain mites serious problem Blacklands, Cross-Timbers; recent showers interrupted spraying activities. Reported wheat condition Statewide is 10% excellent; 34% good; 37% fair; and 19% poor. Rice producers building dikes, preparing land for planting. Sugarcane harvest interrupted by rain. Cotton planted 5%, 7% 1980, 5% average. Sorghum planted 24%, 34% 1980, 23% average. Corn planted 15%, 20% 1980, 12% average.

UTAH: Recurring periods of rain or snow, principally in the south. Few widely scattered showers north. Moisture accumulations generally light to moderate but locally heavy at a few stations in south portion. Average temperatures continued generally above normal ranging between 2° below and 9° above. Soil moisture conditions improved south portion but little change north.

Spring calving, lambing continue. Orchard pruning winding down. A mild spring thus far has accelerated fruit tree progress. Some fields being worked in south. Irrigation system maintenance and ditch cleaning in progress.

VIRGINIA: Cool and dry with a warming trend at end of period. Highs in the 50's and 60's, lows in the 20's. Average temperature 5° below normal. Virtually no rainfall.

Topsoil moisture short to adequate. Days suitable for fieldwork: 5.0 days. Pasture, barley, alfalfa and wheat condition good to excellent. Small grains need rain by June. Tobacco plantbed condition good to excellent. Tobacco plantbeds 53% seeded Statewide, averaging 95% seeded south and southeast. Fruit condition good to excellent. Trees near bloom, and susceptible to frost. Sheep getting 16% of forage requirements from grazing; beef cattle 17%; dairy cattle 7%. Water shortages continue. Farm activities: Liming and fertilizing; plowing and disking; topdressing and spraying for weeds in small grains; tobacco plantbed preparation and seeding; overseeding pastures and hay fields; alfalfa seeding north and central; making maple sirup, Highland County; ordering supplies; manure hauling; potato planting Eastern Shore; soil sampling and record and tax work.

WASHINGTON: West: Average temperature was about 5° above seasonal normals. Rainfall totals were well below normal, by slightly more than 2.00 in. The plowing and disking of fields has begun. The fertilizing of winter wheat and vegetable seed crops also began. Strawberry rows being cut back while preparation for raspberry planting underway. Pastures growing good. In drier western areas, cattle being put on pasture.

East: Average temperatures east of the Cascades was about 7° above normal. No significant precipitation recorded except over the Blue Mountains but even there totals were about one-half normal. Soil preparation and fertilizing continued as well as the planting of spring grains. Norgold potatoes continued to be planted. Winter wheat looks good, however, evidence of striped rust and foot rot infestation apparent. Fruit pruning continues. Fruit development well ahead of last year. Calving and lambing continued. Hay supplies plentiful with limited movement. Livestock in good shape with one county reporting sheep foot rot.

WEST VIRGINIA: Temperatures averaged slightly below normal. High 65°, low 14°. Precipitation also averaged below normal.

Soil moisture adequate. Days suitable for fieldwork: 3.5. Major activities: calving, lambing, some plowing. Hay, grain and other feed supplies adequate.

WISCONSIN: Temperatures above normal. Highs 40's and 50's but reached 60's 15th. Lows teens and 20's. Extremes: 66 and 10°. Little precipitation except light snow up to 2 in. scattered areas south and east 10th. Warm daytime temperatures rapidly melted snow. Snow depths as of 13th averaged only 0.50 in., least ever for that date. Snowcover remains only in Lake Superior snowbelt. Frost depths averaged 16 in. as of 13th, decline

of 8 in. from two weeks earlier. Most frost out southern areas. Soil temperatures increasing.

WYOMING: Weather continued unseasonably warm and dry. All stations reported below normal precipitation except one station in Lower Platte Drainage which was slightly above normal. All stations reported above normal temperatures. Highest 66° Big Horn Drainage and lowest 2° in Snake Drainage. Winter wheat mostly good condition. Many areas short topsoil moisture. Livestock generally good condition. Some early calving, lambing, shearing small flocks.

WATER SUPPLY OUTLOOK FOR THE WESTERN UNITED STATES Issued as of March 1, 1981

NOAA, National Weather Service
and
USDA, Soil Conservation Service

The table shows the runoff forecast in percent of the 15-year (1963-77) average. The forecasts are for the remainder of the water year (October thru September), except for the full water year for the Sacramento and San Joaquin Basins; April 1 to September 30, 1981, for the Columbia, Missouri, Yellowstone, and North Platte Basins; April 1, to July 31, 1981, for the Snake; November 1, 1980, to June 30, 1981 for the Little Colorado Basins; and January 1 to June 30, 1981, for the Gila Basin. The publication "Water Supply Outlook for the Western United States," issued as of March 1, 1981, contains the complete water supply forecasts for about 375 stations in the Western United States.

River	Station	Forecast 1,000 Acre-Feet	Percent 15-Year Average
Columbia	Grand Coulee, WA	5760	85
Columbia	The Dalles, OR	7980	77
Snake	Lower Granite, WA	1490	64
Sacramento	Red Bluff, CA	6000	67
San Joaquin	Big Creek, CA	900	70
Weber	Gateway, UT	85	28
Jordan	Utah Lake, UT	140	57
Truckee	L. Tahoe-Farad	140	51
Colorado	L. Powell infl.	3000	43
Green	Green River, UT	1375	46
San Juan	Bluff, UT	300	35
Little Colo.	Woodruff, AZ	1.2	10
Gila	Solomon, AZ	18.0	18
Rio Grande	San Marcial, NM	6000	18
Arkansas	Pueblo, CO	8000	31
Missouri	Ft. Peck, MT	2206	45
Yellowstone	Sidney, MT	4137	53
North Platte	Glendo, WY	371	38

CROP PRODUCTION HIGHLIGHTS

CITRUS production is forecast at 15.0 million tons (13.6 million metric tons), 9 percent less than last season.

ORANGE production is forecast at 245 million boxes (9.52 million metric tons), virtually unchanged from last month but down 11 percent from the 1979-80 season.

GRAPEFRUIT production is forecast at 66.2 million boxes (2.44 million metric tons), 1 percent less than expected on February 1 and 10 percent less than harvested last season.

LEMON production for California and Arizona is expected to be a record high 30.4 million boxes (1.05 million metric tons), up 4 percent from last month's forecast and 47 percent more than last season.

WINTER POTATO production is forecast at 2.53 million cwt (115 thousand metric tons), up 6 percent from the February 1 forecast and 7 percent greater than the 1980 crop.

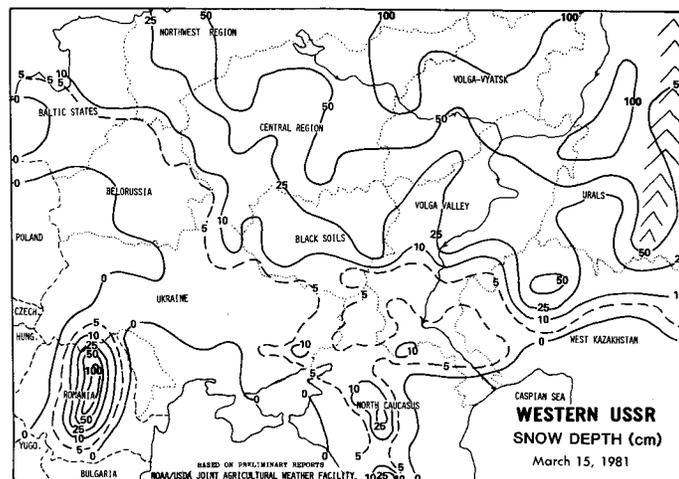
SPRING POTATO area for harvest is expected to total 78.4 thousand acres (31.7 thousand hectares), up 8 percent from last year's record low, but the second smallest acreage of record.

International Weather and Crop Summary

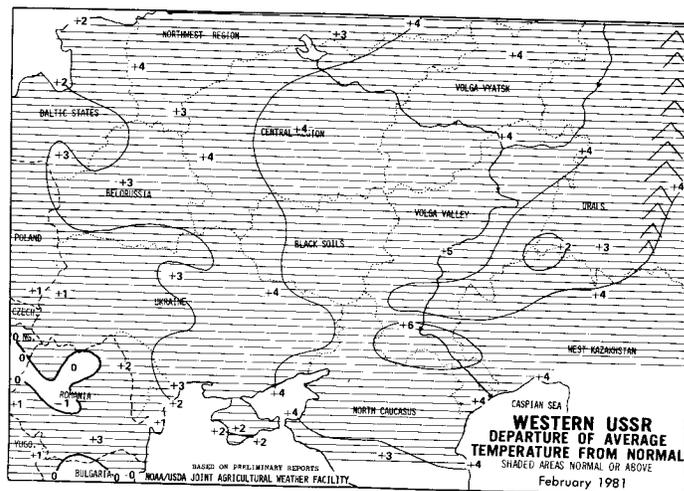
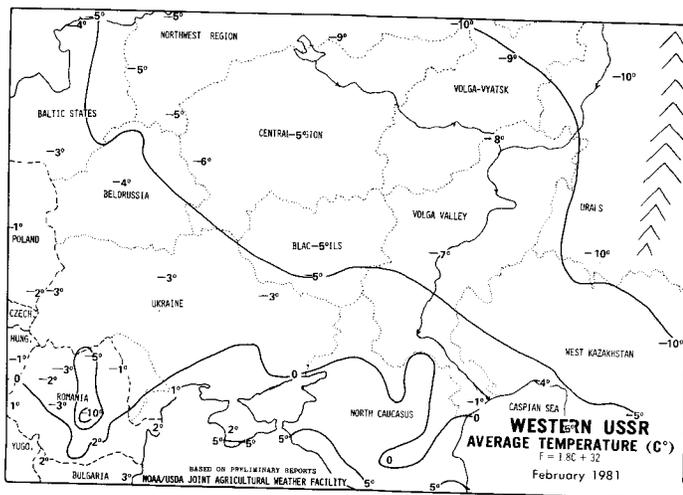
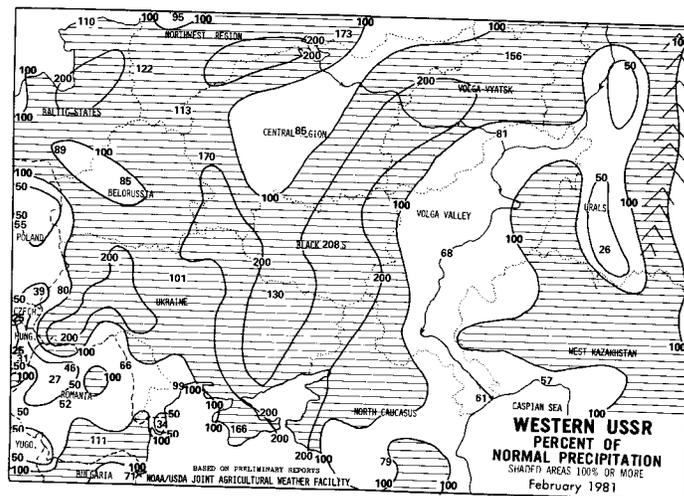
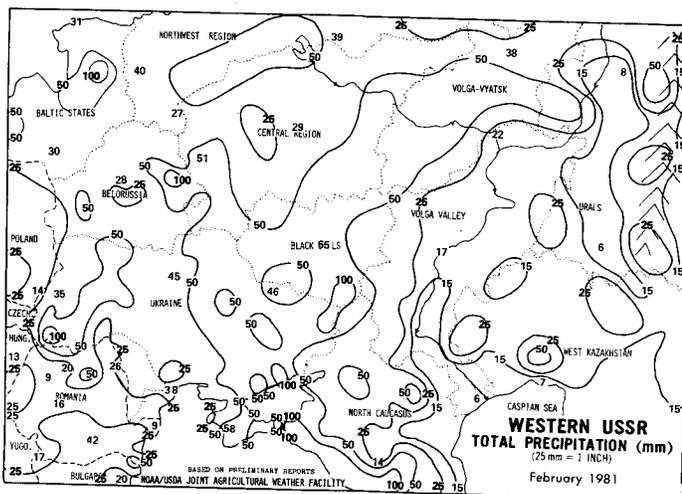
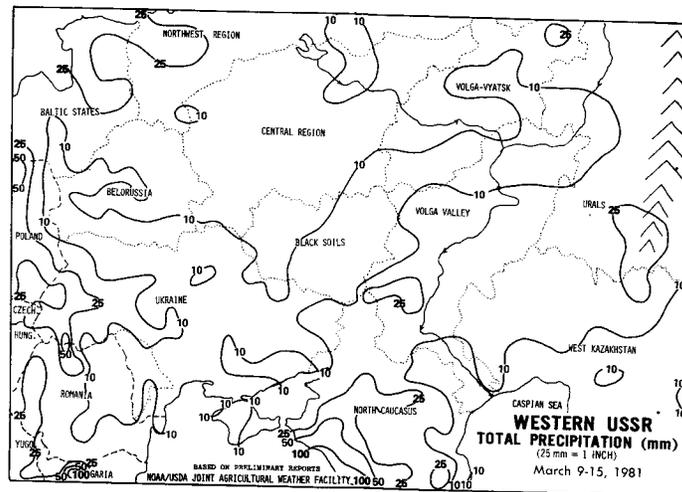
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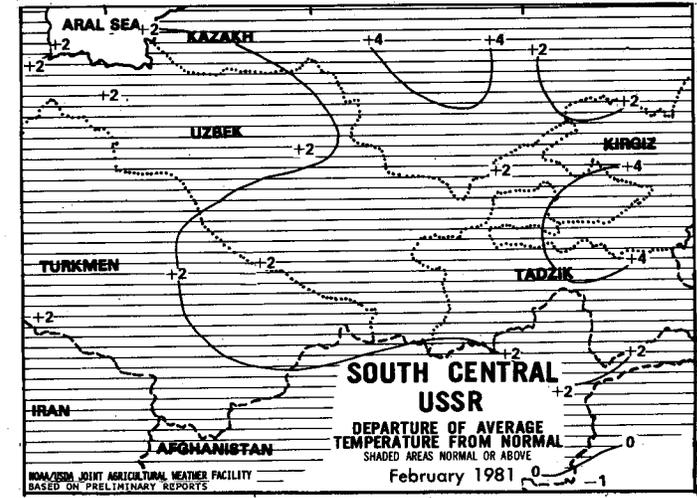
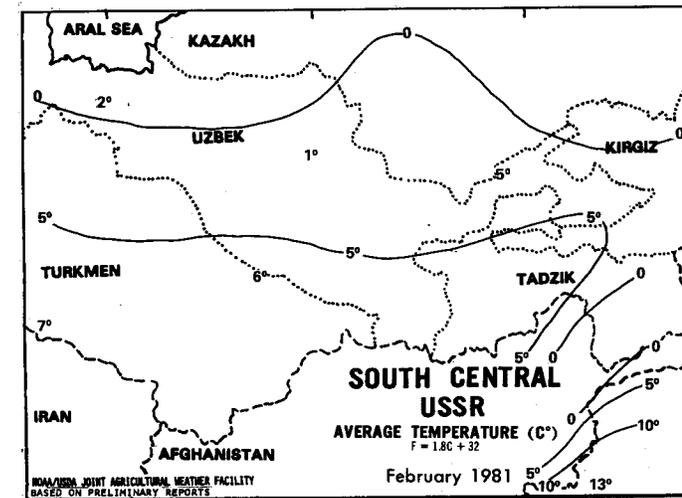
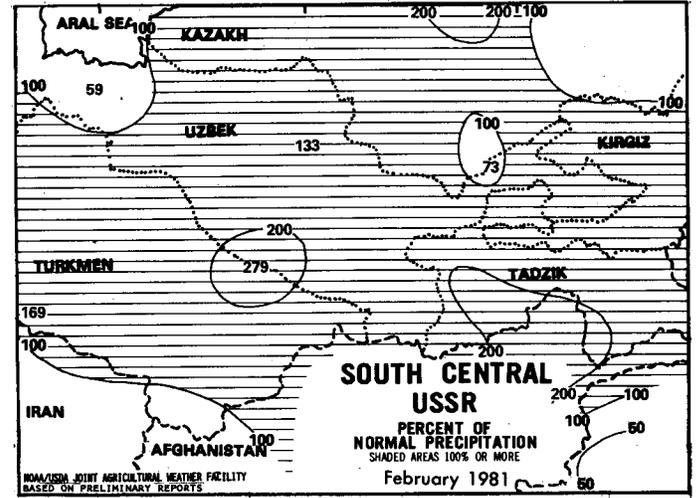
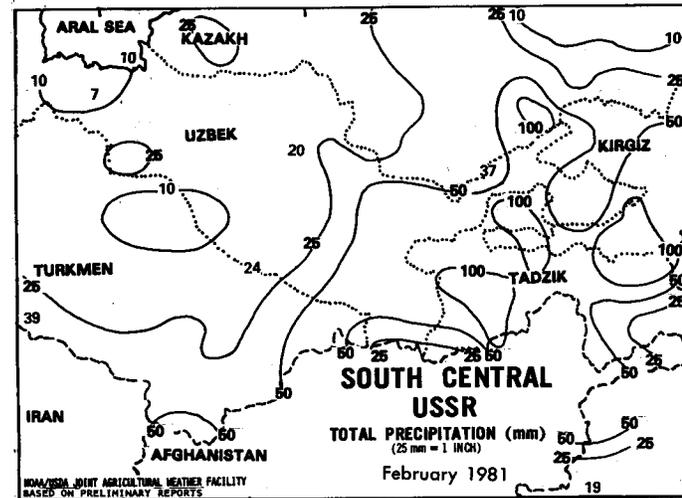
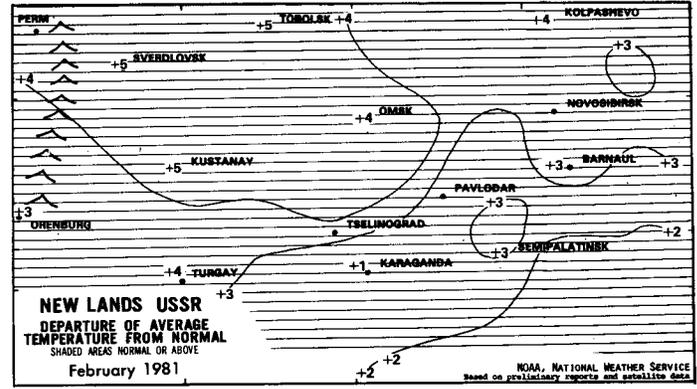
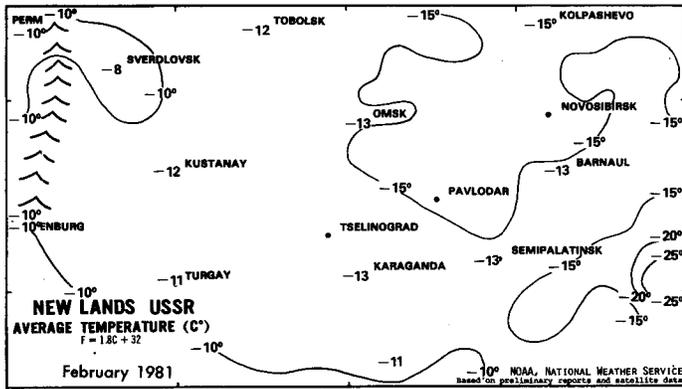
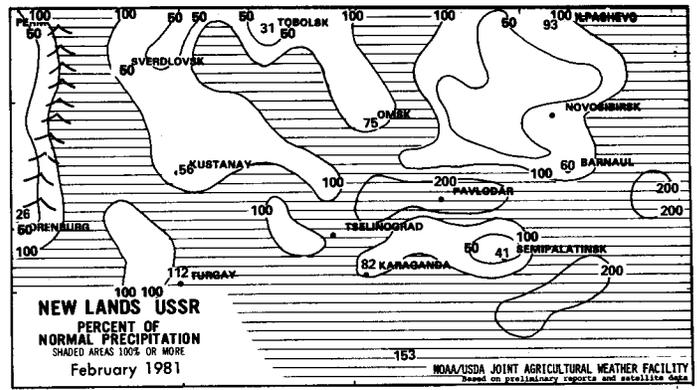
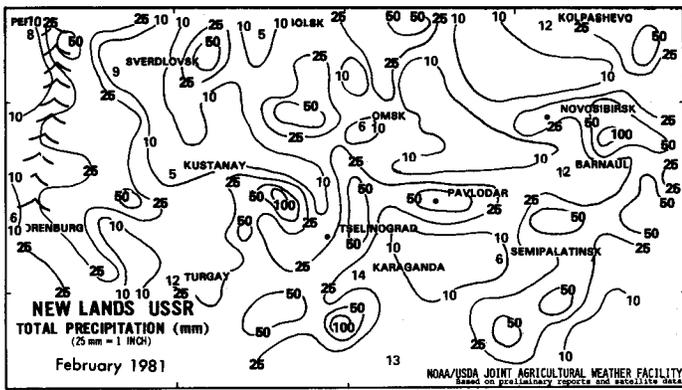
HIGHLIGHTS

- WESTERN USSR: Wet weather continued in many winter grain areas. Temperatures near freezing kept crops dormant.
- EUROPE: Above-normal precipitation maintained good winter grain growing conditions, except in Spain, southern Portugal, and northern Italy. Temperatures were warm enough for winter grain growth in most areas.
- NORTHWESTERN AFRICA: Continued dry weather put only light stress on heading winter grains in western Algeria, but caused further deterioration of crops in Morocco.
- SOUTH AFRICA: Sunny weather and scattered showers primarily in northeastern portions of the Maize Triangle continued to help corn in late stages of development.
- INDIA: Widespread rain developed in the southeastern states. Continued light rain in northern winter grain areas did not interfere with maturation.
- CHINA: Temperatures warmed to allow winter grain growth. Continued lack of precipitation left some northern areas too dry.
- SOUTH AMERICA: Dry weather in Brazil aided harvests in the north where dryness is reducing yield prospects somewhat. Crops are in excellent condition in the south. Showers benefited crops in Argentina.
- MEXICO: Heavy rains in the extreme northeast provide plentiful soil moisture for young corn and grain sorghum.

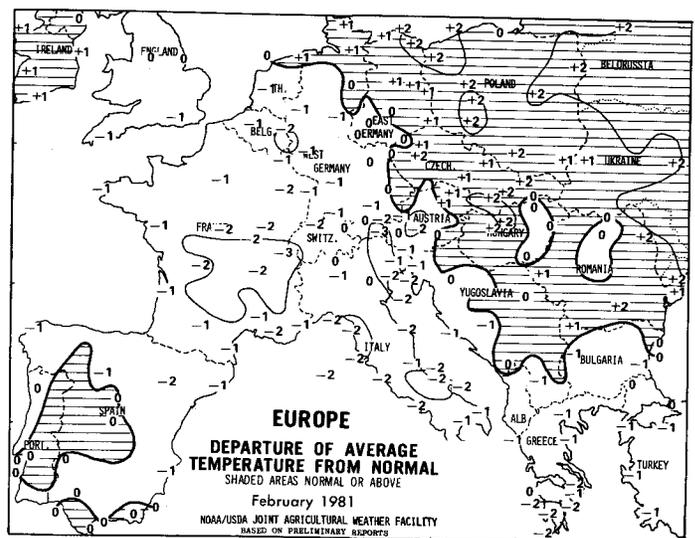
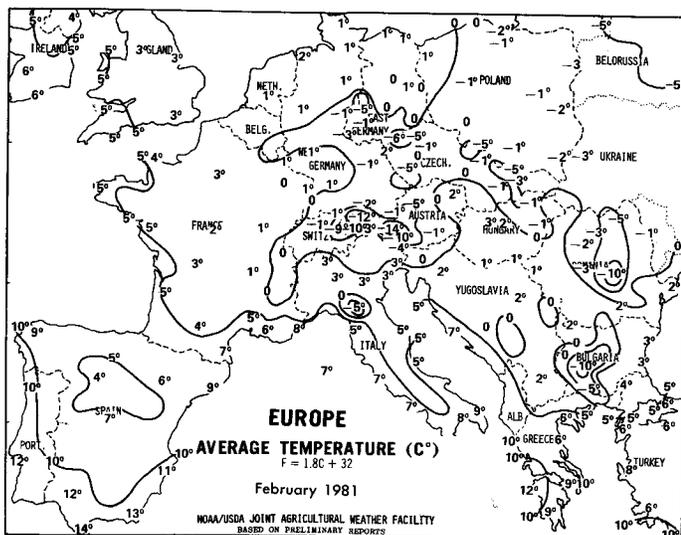
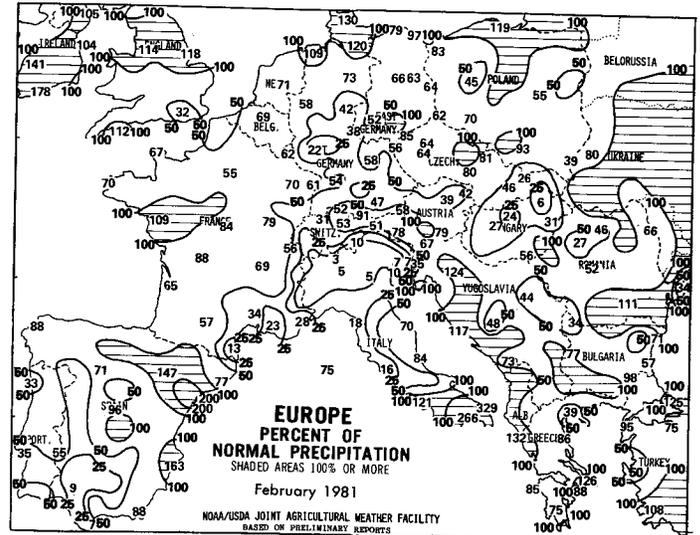
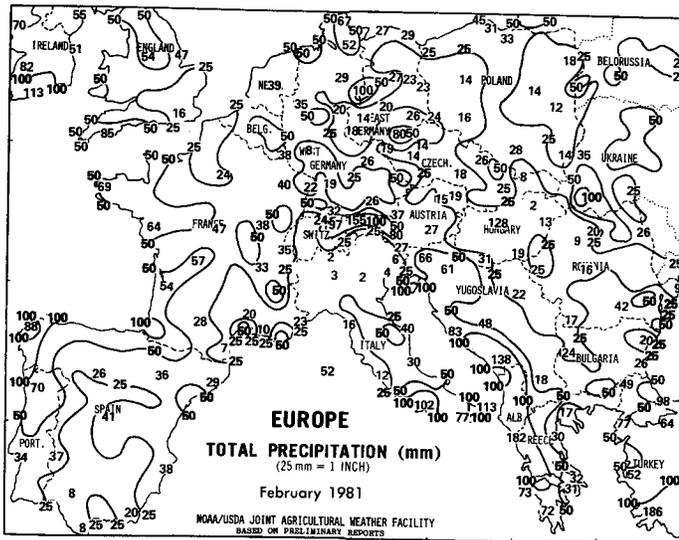
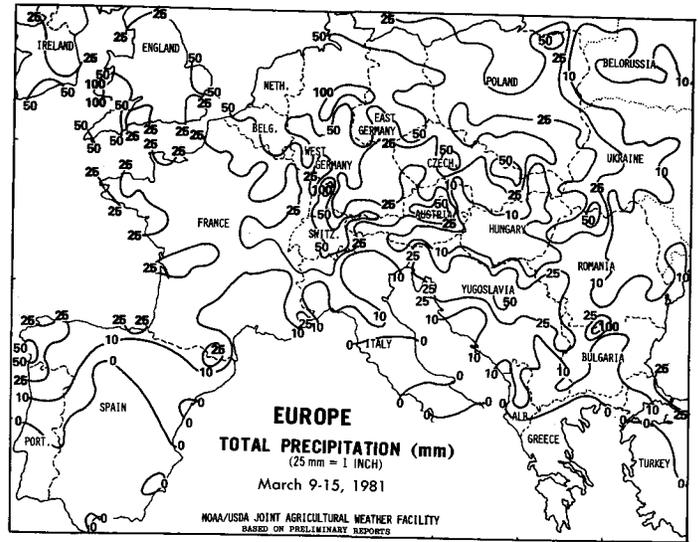


WESTERN USSR: Near-normal temperatures were warm enough to cause some snowmelt in winter grain fields. The greatest melting occurred in the west. As in February, conditions in all areas remained too cold for winter grain growth. A cold air outbreak late in the week did not appear to have caused any winterkill, with the remaining snowcover barely adequate to protect the crop. Precipitation stayed below normal over much of the winter grain belt, but parts of Belorussia, the western Ukraine, and the North Caucasus received above-normal totals for the week. February was the fourth consecutive month where a substantial portion of the winter grain belt received more than twice normal precipitation. While the mild, wet weather has resulted in relatively little winterkill due to extreme cold, conditions have been conducive to frost heaving and formation of ice in fields, which can smother overwintering crops. On the other hand, the abundance of moisture may provide very favorable growing conditions if temperatures increase in a normal pattern this spring.

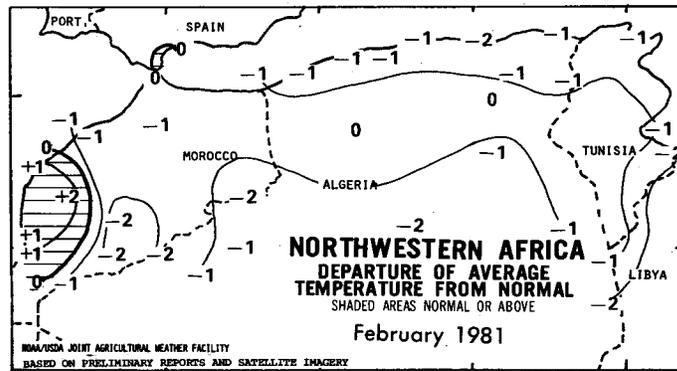
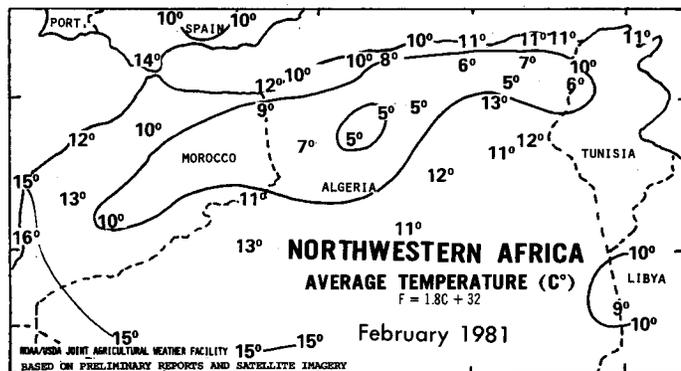
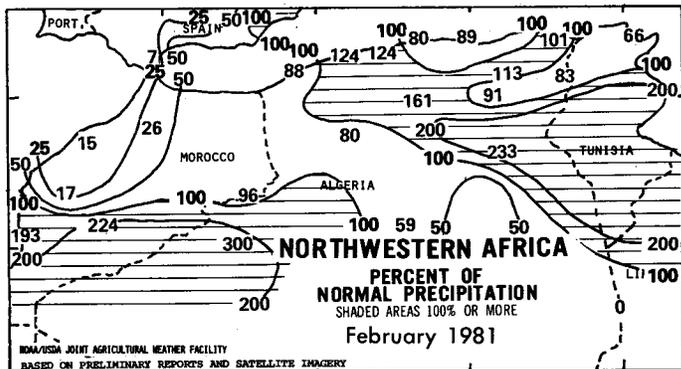
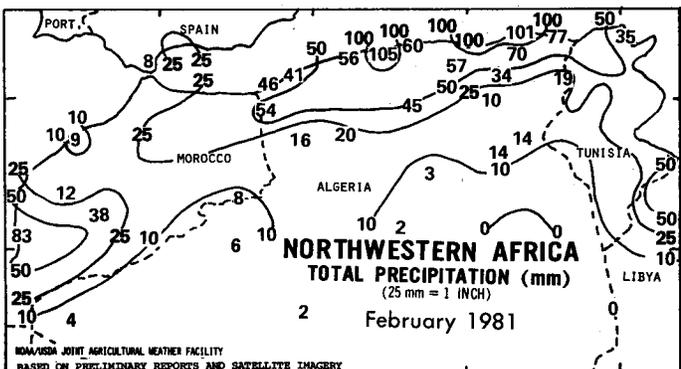
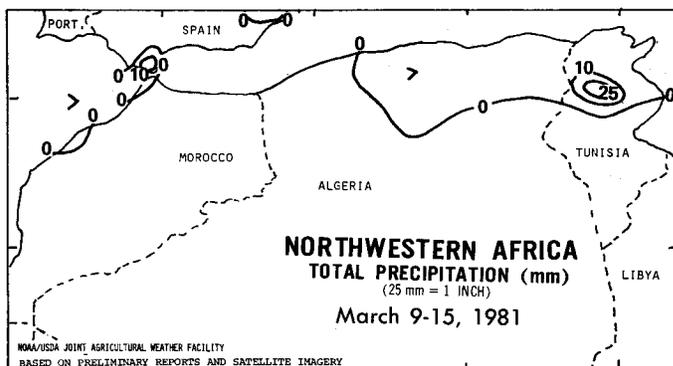




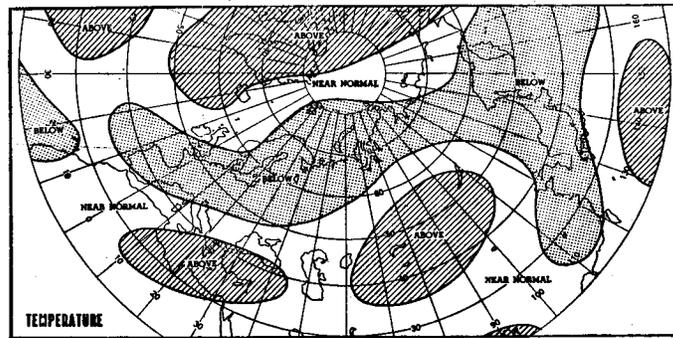
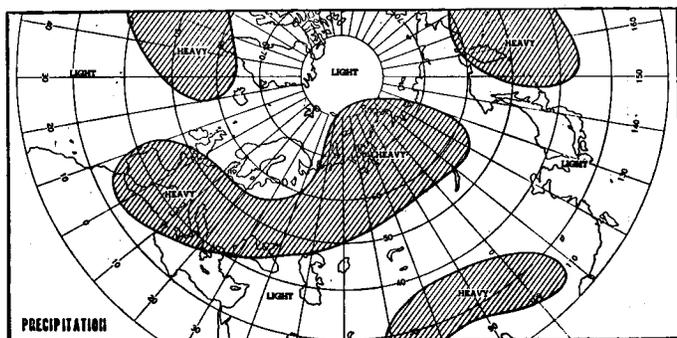
EUROPE: Temperatures and precipitation increased markedly in many countries during the week. However, some dry areas in Spain, southern Portugal, and northern Italy received little or no precipitation. Most of these problem areas had less than normal precipitation in February, further dimming winter grain prospects. In other countries, a variable precipitation pattern in February kept soils adequately moist for the most part, and the recent, much-above-normal precipitation brought moisture up to par in all of those areas. February temperatures tended above normal in the northeast and below normal in the southwest, with no extreme cold that might cause winterkill. Temperatures now have risen high enough to permit winter grain growth over all but the northeastern portion of the region. Substantially above-normal temperatures in Spain and southern Portugal further aggravated dry crop conditions.



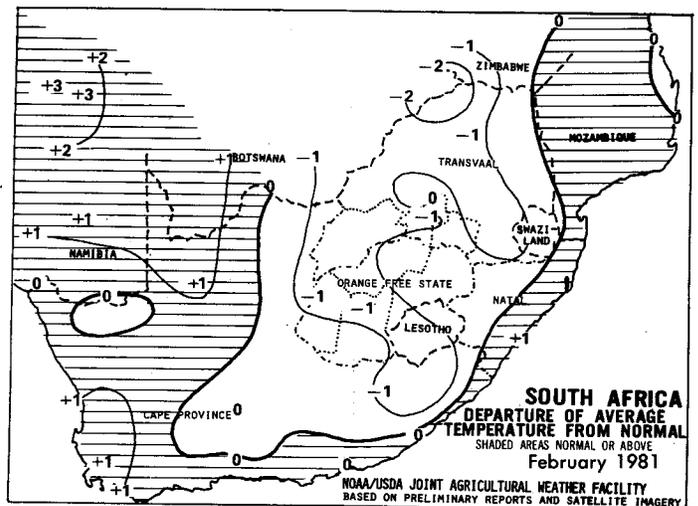
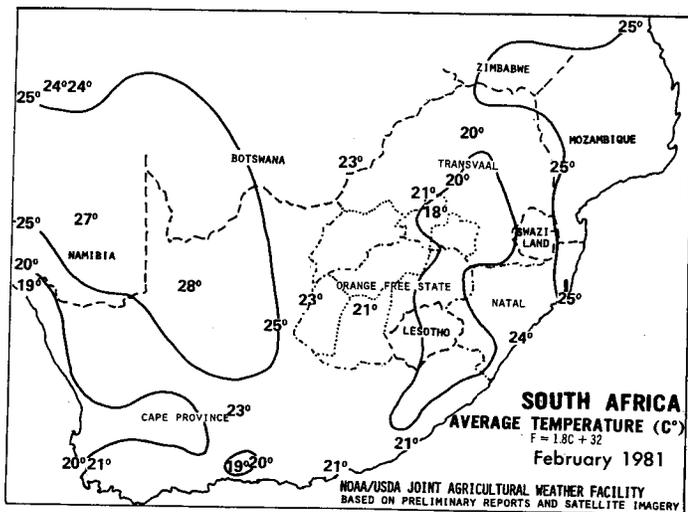
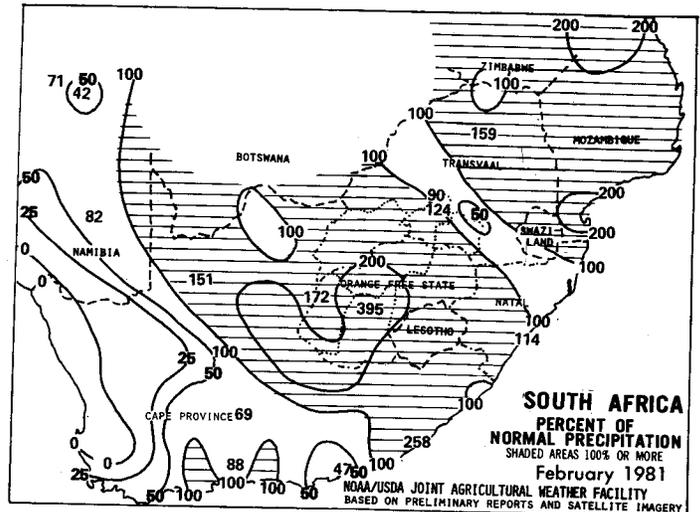
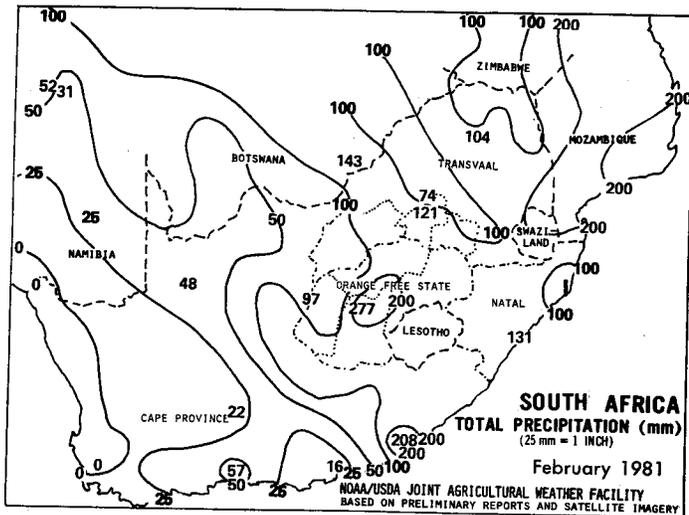
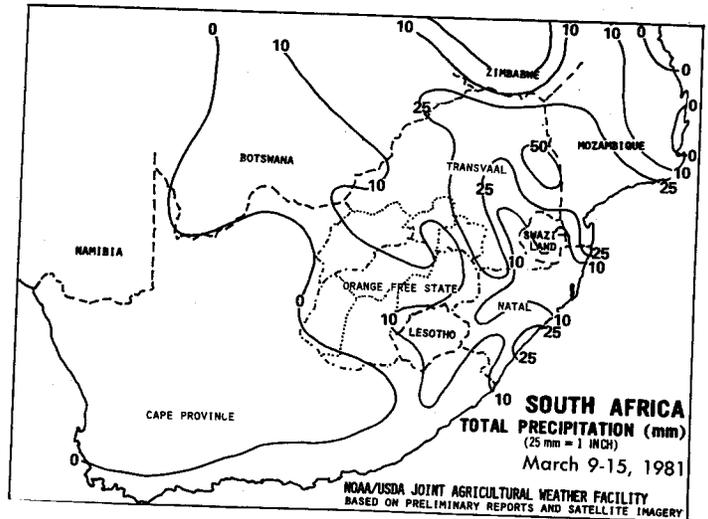
NORTHWESTERN AFRICA: Light precipitation in northern Tunisian and eastern Algerian winter grain areas maintained good growing conditions, but Moroccan and western Algerian areas remained dry. Above-normal February precipitation in western Algeria had kept crops adequately moist, but three consecutive dry weeks have put light stress on crops now in the heading stage. Temperatures were running somewhat above normal. Little hope remained for winter grains in southern Morocco, and yield prospects in the north continued to decline, as temperatures ranged much above normal. Precipitation in February was below normal, and only temporarily slowed the decline.



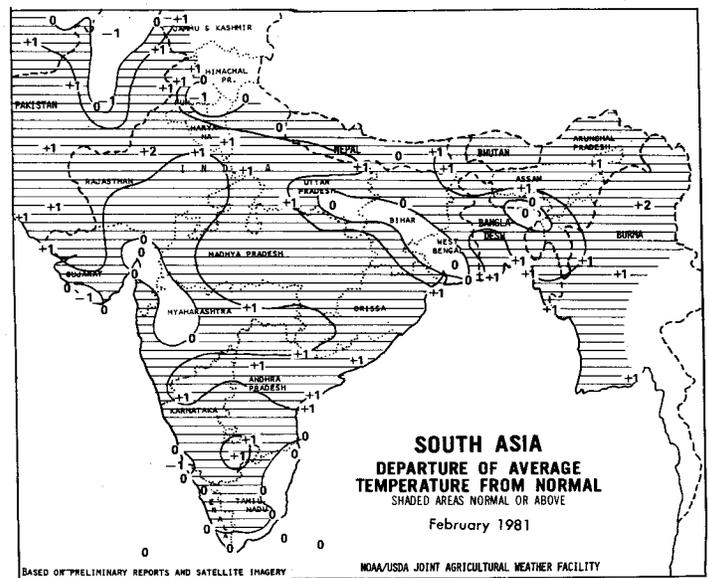
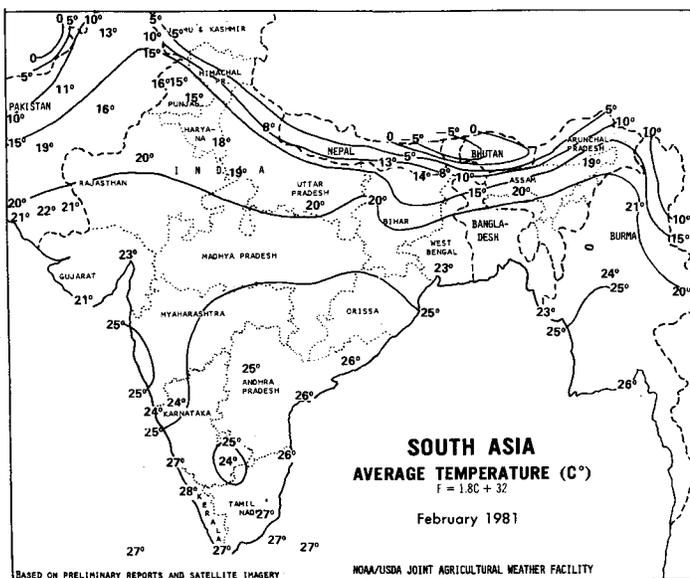
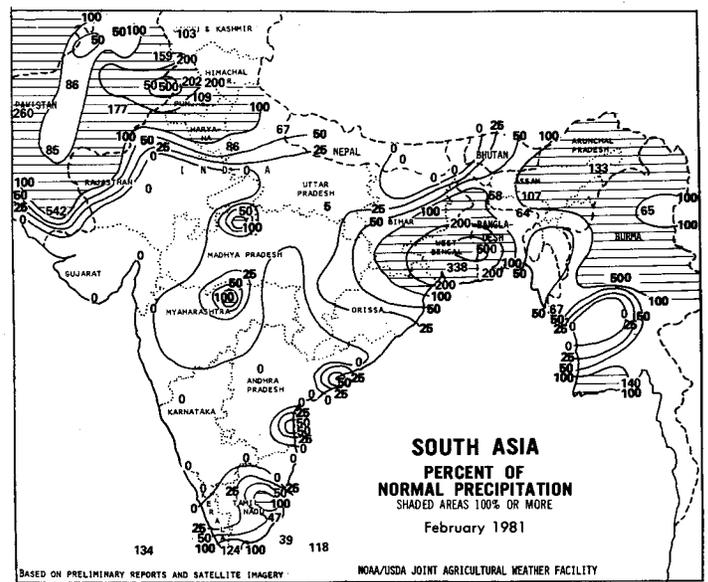
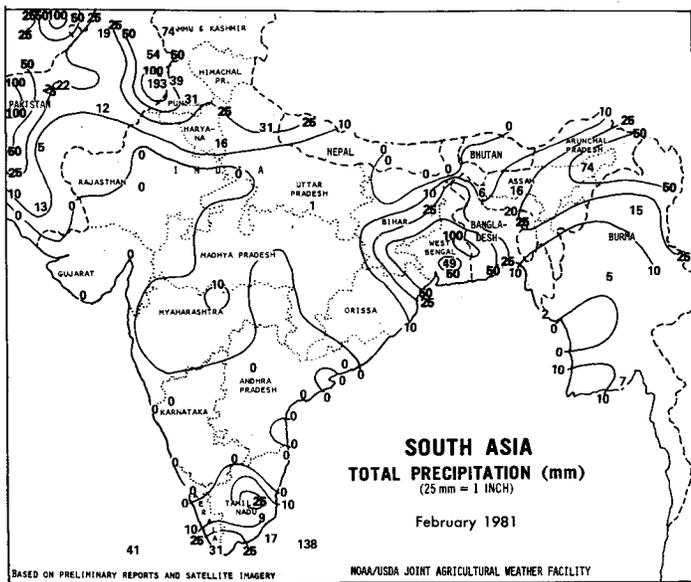
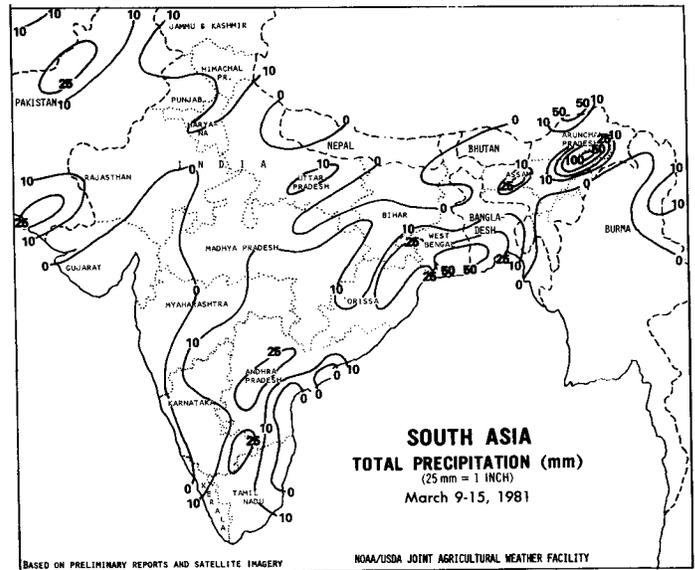
EURASIA WEATHER OUTLOOK...MID-MARCH - MID-APRIL 1981...CLIMATE ANALYSIS CENTER



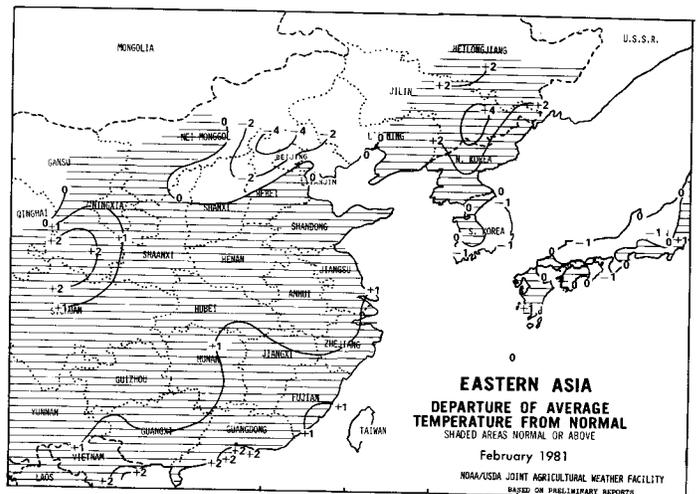
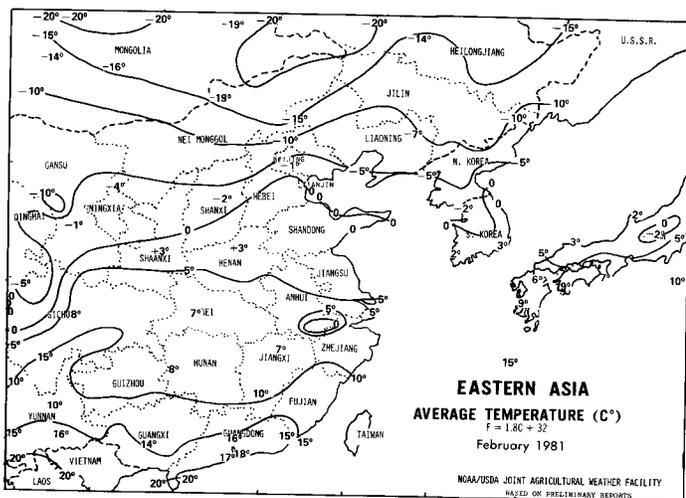
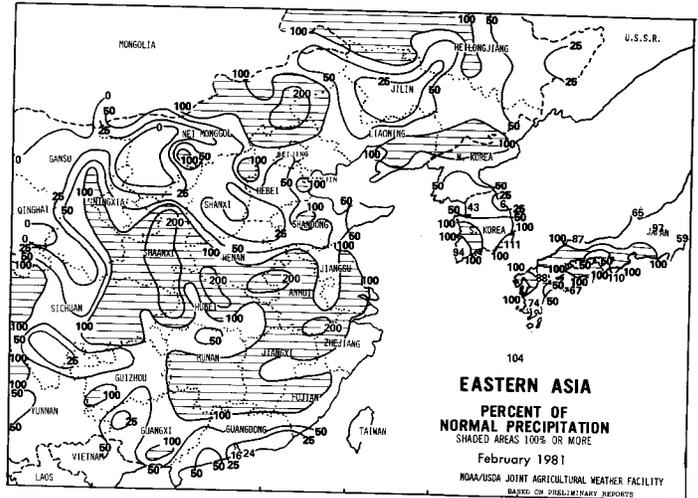
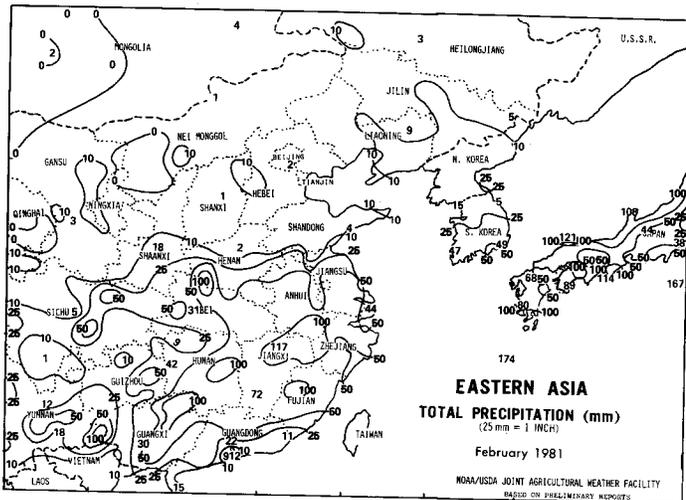
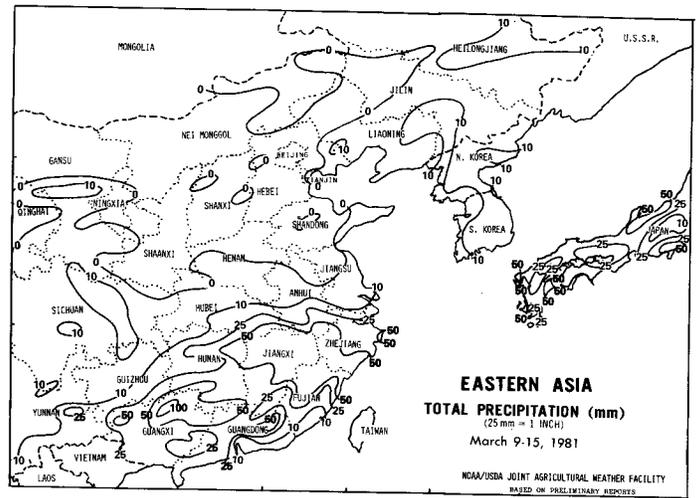
SOUTH AFRICA: Scattered showers produced 10 to 30 mm of weekly rainfall in northeastern portions of the Maize Triangle. Heaviest shower activity was confined primarily to the Transvaal region. Satellite photos indicate long periods of sunshine were prevalent during the week which would be beneficial for kernel development and maturing grain. Mean temperatures averaged 18 to 23°C for the week. Soil moisture supplies should be adequate for crops in late growth stages, since timely February rainfall was above-normal throughout the major corn-producing region. February temperatures averaged slightly below normal. Except for early season dryness delaying planting in some areas, favorable weather thus far in the growing season indicates a successful crop year for South African corn.

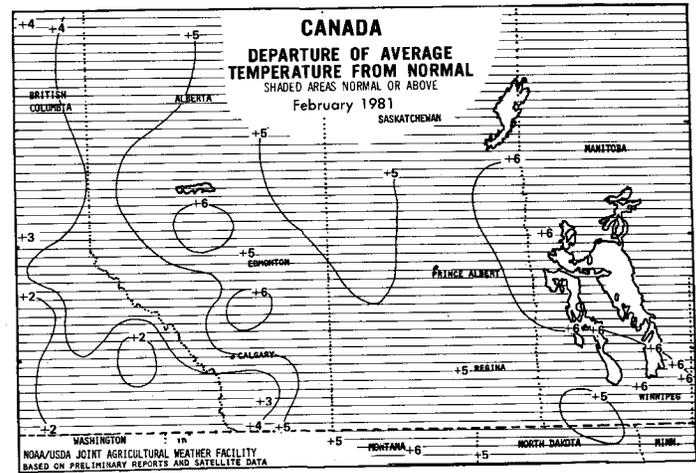
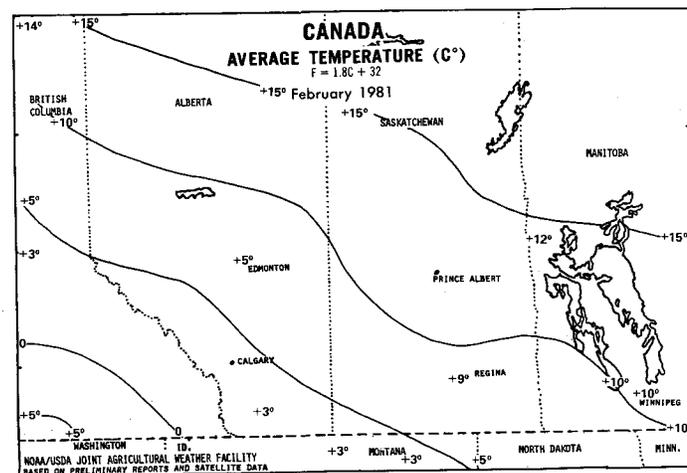
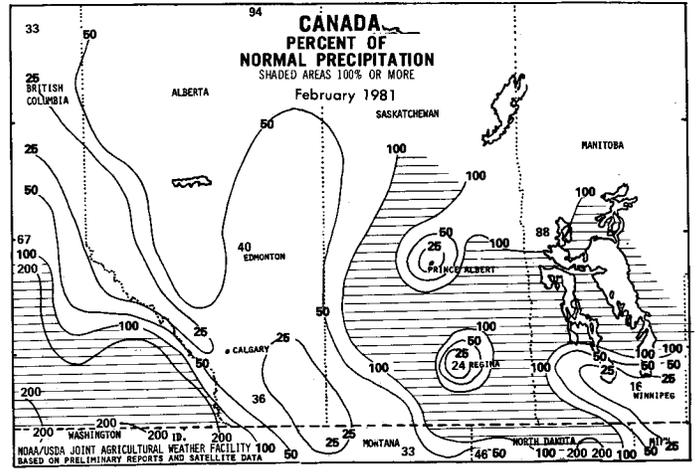
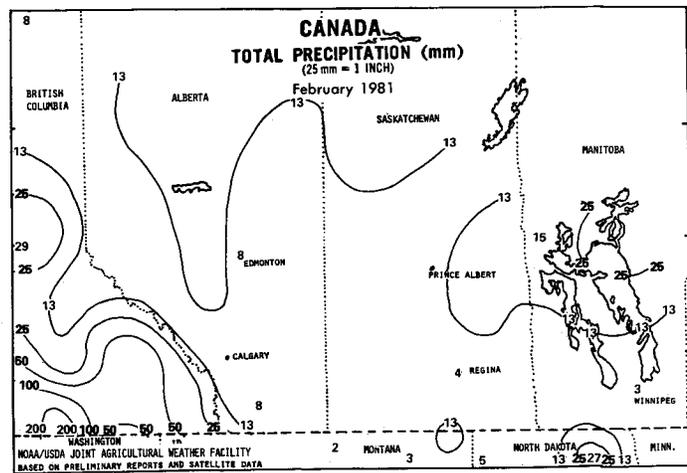
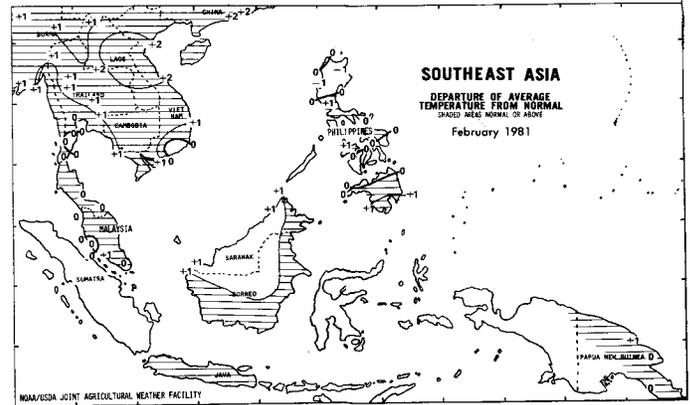
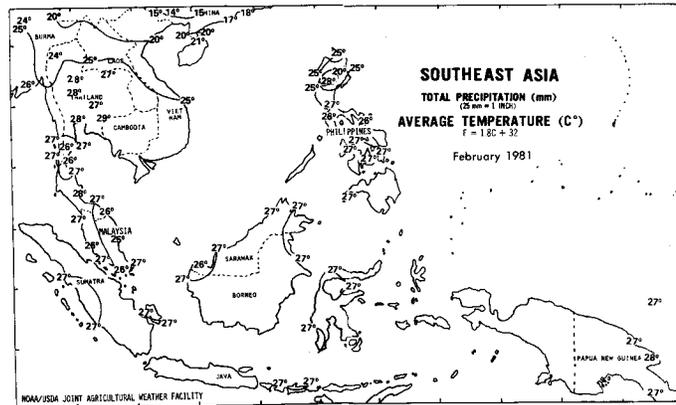
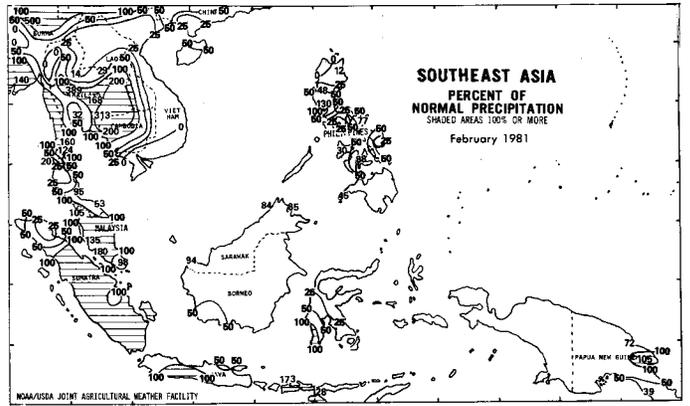
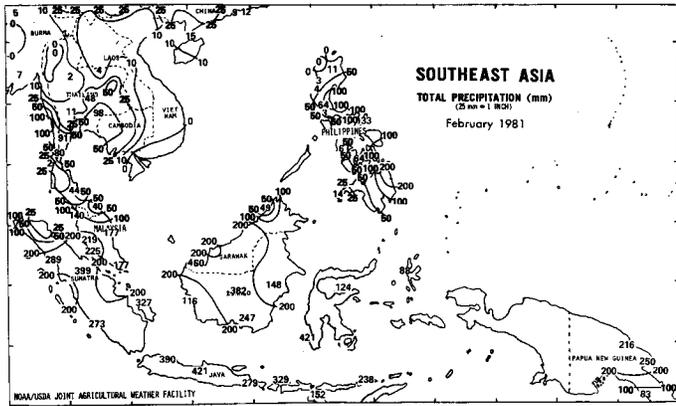


SOUTH ASIA: The first rains of the season covered the southeastern Indian coastal states. Rainfall continued in Bangladesh and eastern India, maintaining a relatively wet pattern which began in February. In the northern winter grain areas of Punjab and Haryana, light, above-normal rainfall continued. With the crop in that area now in the late stages of grain filling, rainfall is probably not needed. Conditions should not be too wet for the ripening grain. Temperatures dipped below normal following February's slightly above normal readings.

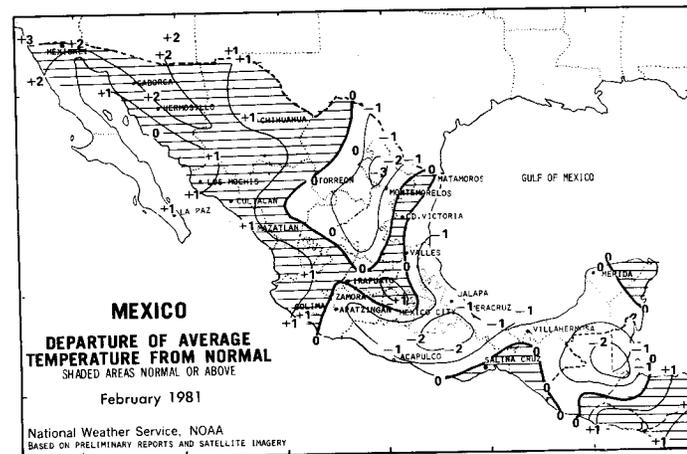
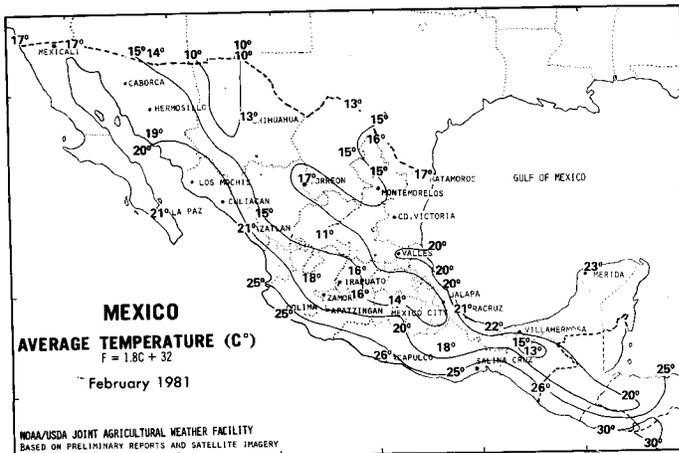
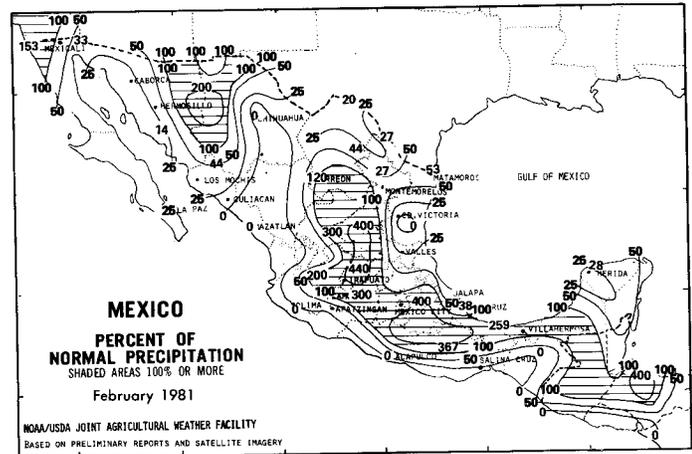
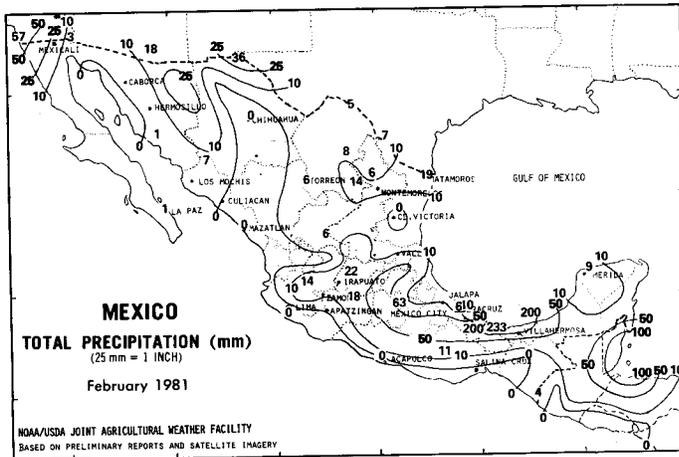
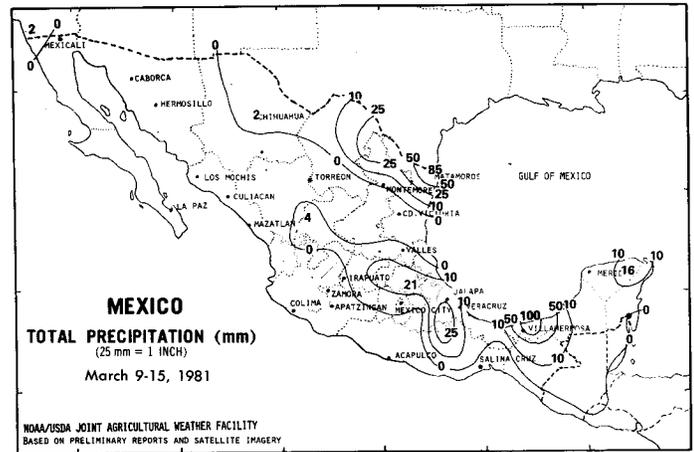


EASTERN ASIA: Above-normal temperatures on the North China Plain permitted winter grain growth over nearly all of the belt. However, very little precipitation fell north of the Yangtze River, and only in Henan, Anhui, and Jiangsu did winter grains have really good moisture for growth. Conditions in Shandong and southern Hebei appear to be marginally adequate, but the Beijing area has experienced serious precipitation shortfalls since last summer, and irrigation supplies are reportedly very short. Winter grain yields in this minor production area will probably suffer some losses. February temperatures stayed near normal on the average, but a brief cold snap late in the month may have caused some winterkill. The above-normal precipitation of recent weeks in the south appears to be increasing, although conditions should not yet be unfavorably wet. In South Korea, temperatures warmed enough to permit some winter grain growth, and light precipitation kept fields adequately moist. Conditions during February had been relatively normal.

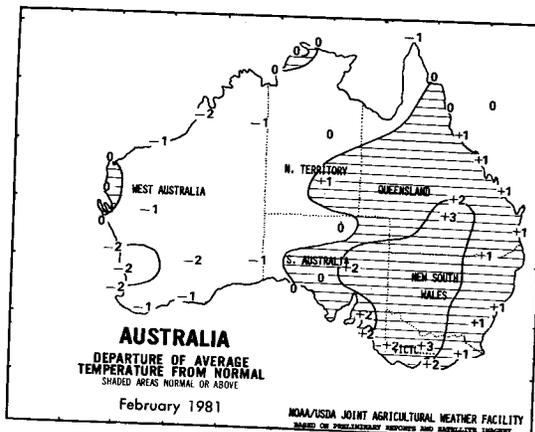
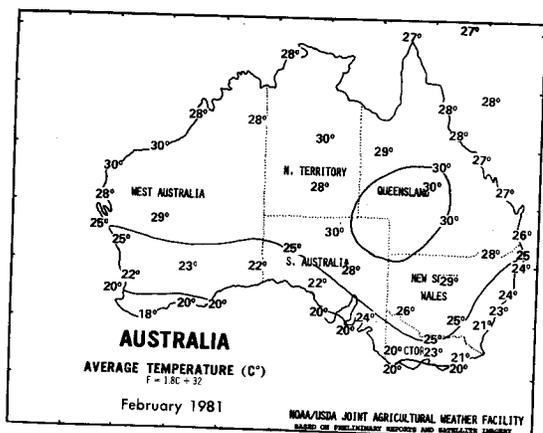
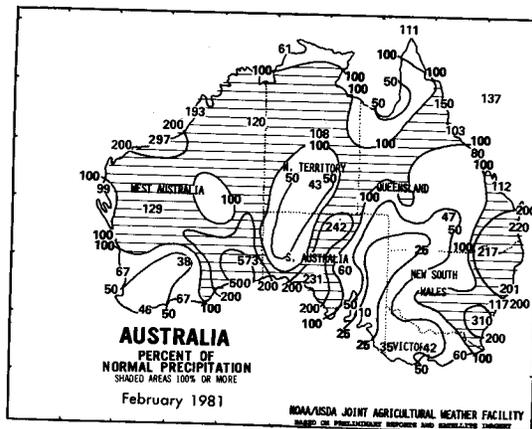
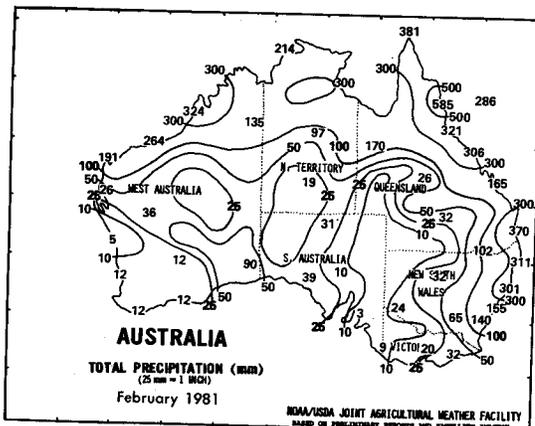




MEXICO: Sunny, warm weather prevailed over most West Coast farming districts in February while heavy showers blanketed the upper watersheds. Vegetables, winter wheat, and pastures should have progressed well, along with an increase of water storage in northern reservoirs. Warm, dry conditions this week were conducive for crop development and vegetable harvest. In upper parts of the northeast, heavy rains this week maintained plentiful soil moisture for young corn and grain sorghum; a few fields may be too wet. However, a dry pattern since February has dominated northeastern citrus orchards; soil moisture may be slightly short around Valles. Citrus began blooming in southernmost orchards in February, advancing to northern groves in early March. Light rains falling over the Southern Plateau in February increased soil moisture needed for early corn planting.



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