

WEEKLY WEATHER AND CROP BULLETIN

U.S. DEPARTMENT OF COMMERCE
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Statistical Reporting Service
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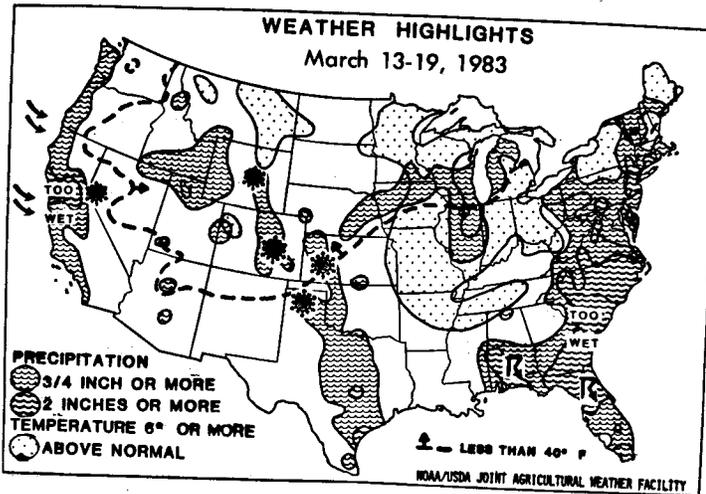
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National Weather Summary

March 13 - 19



Rockies from New Mexico to Wyoming and from western Nebraska into Minnesota. In warmer areas, thunderstorms moved across Texas, and rain reached to eastern Nebraska and Iowa. Another storm in Gulf of Mexico spread showers and thunderstorms from Mississippi to Georgia and Florida. Rain fell over the Northeast with snow at the higher elevations.

WEDNESDAY ... Freezing temperatures reached southward in the Plains to the Texas Panhandle through eastern Colorado and western Kansas to South Dakota and Wyoming. Later, freezing rain fell in the eastern portion of the area. Showers and thunderstorms fell over most of Texas and from Arkansas and Louisiana to the Atlantic Ocean. Heavy rain fell over much of Florida and along the Southeast coast. Another storm approaching the west coast spread wind and rain from Oregon through California and onto the central Plateau. Heavy snow fell in the mountains.

THURSDAY ... A cold front moved over the west coast, triggering showers from Oregon through California, over the Plateau to the central Rockies, and into the Southwest. Late in the day, light snow spread into the northern Plains with heavy amounts in the northern Mississippi Valley. Rainshowers reached from Louisiana to the central Great Lakes and eastward to the Atlantic coast to the mid-Atlantic States. Heavy showers and thunderstorms reached from northern Florida to southern Maryland. Freezing weather reached through the Plains to western Texas.

FRIDAY ... Another system off the west coast spread showers over the lower two-thirds of California. Heavy showers hit the Los Angeles area, and snow covered the central Plateau and the Southwest and covered the Rockies. Snow poured over the Plains from Kansas northward and through the upper Mississippi Valley to the northern Great Lakes. Heavy rainshowers fell from Illinois to western Michigan, and lighter rain covered the lower Lakes, the Ohio and Tennessee Valleys, and the Southeast. Heavy showers and thunderstorms reached from North Carolina through Pennsylvania and southern New England. Light rain covered the rest of the Northeast.

(continued on p. 4)

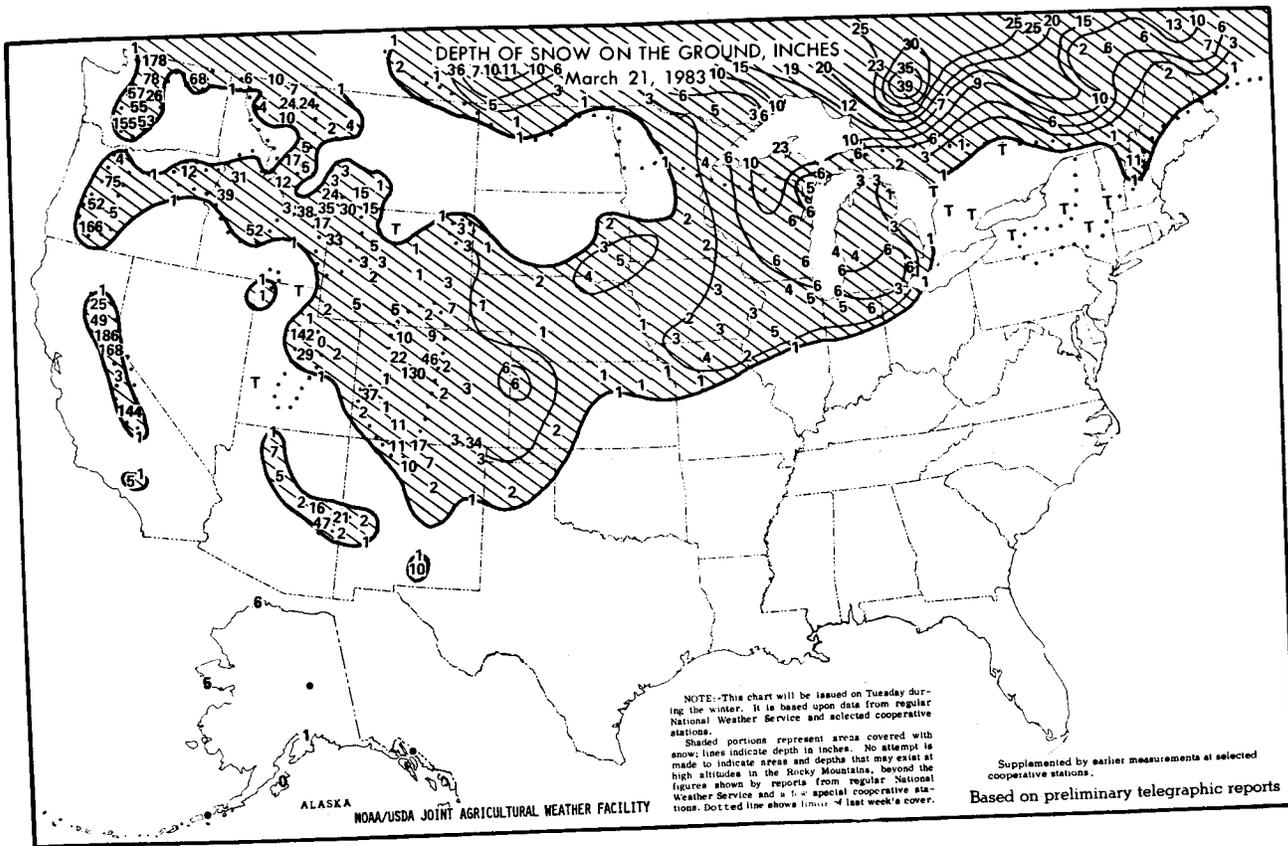
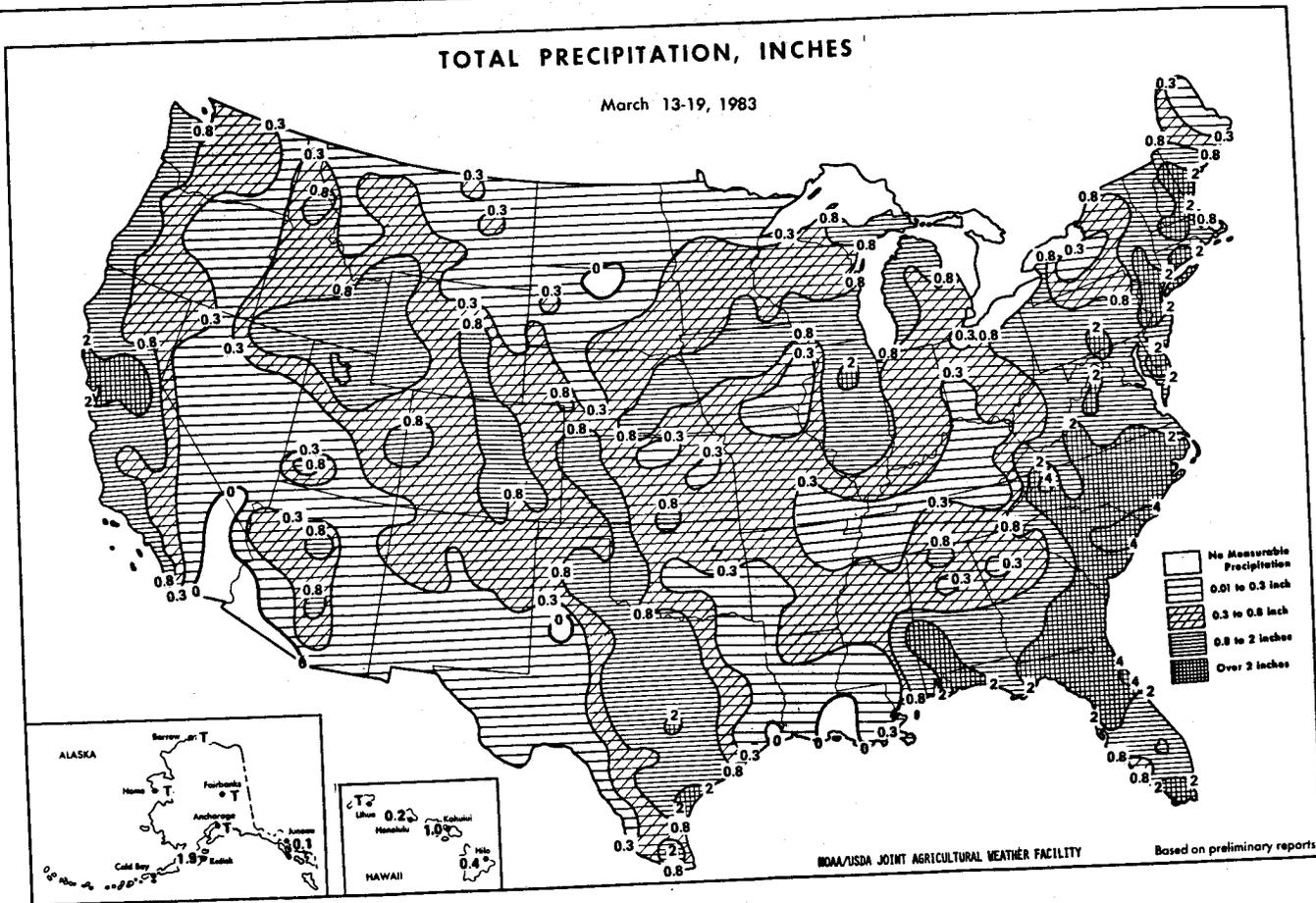
HIGHLIGHTS ... High winds and rain again covered the west coast. Amounts of 2-4 inches fell in the San Francisco Bay area. Snow was moderate to heavy in the Sierras. Snow covered the Rockies and High Plains with heavy amounts from the Texas Panhandle into Wyoming. A blanket of snow covered most of the major winter wheat areas before a cold outbreak late in the week. Showers and thunderstorms across the South and up the east coast kept many areas wet and continued to delay fieldwork. Average temperatures for the week were warmer than normal over the northeastern quarter of the Nation and in the northern tier of States.

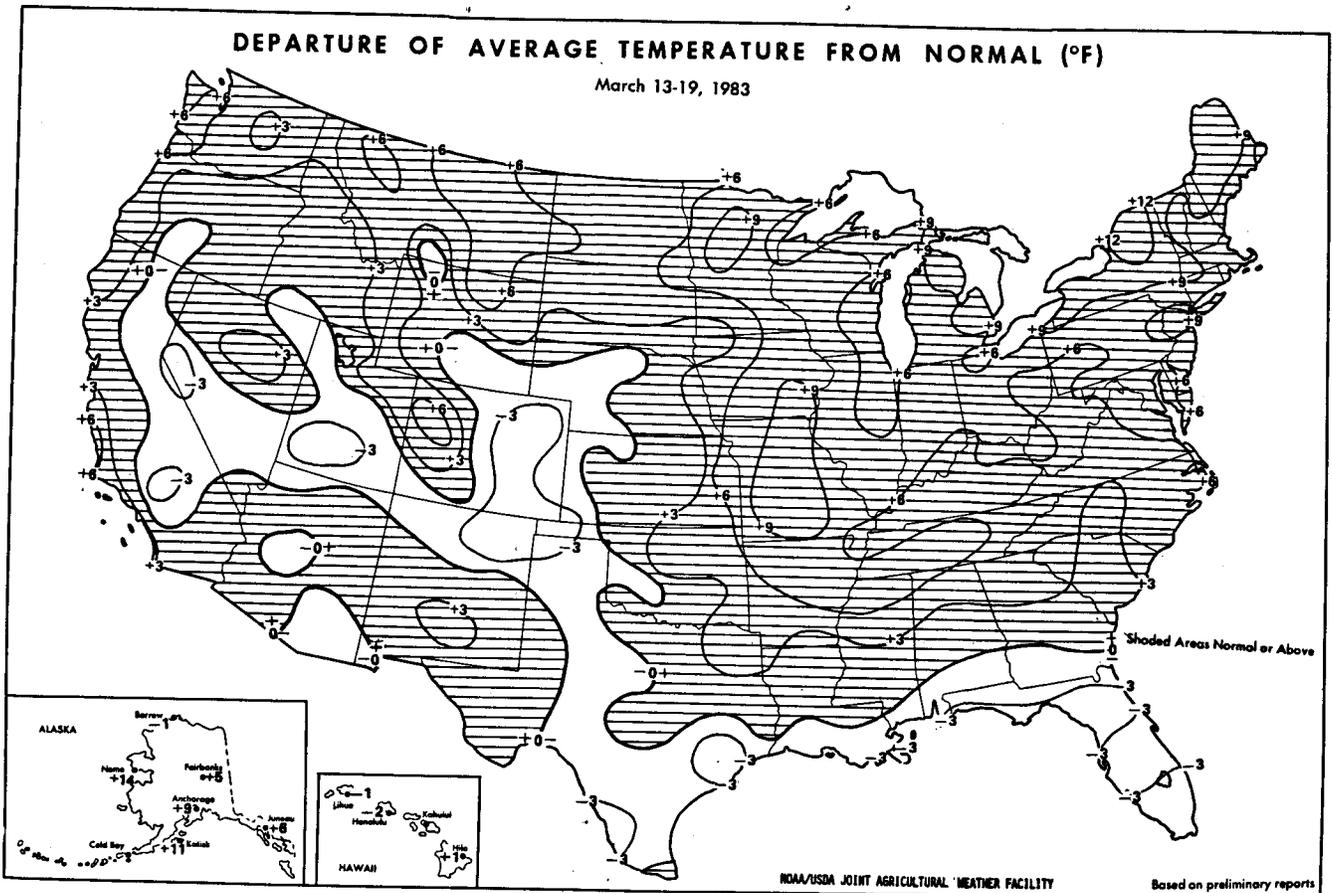
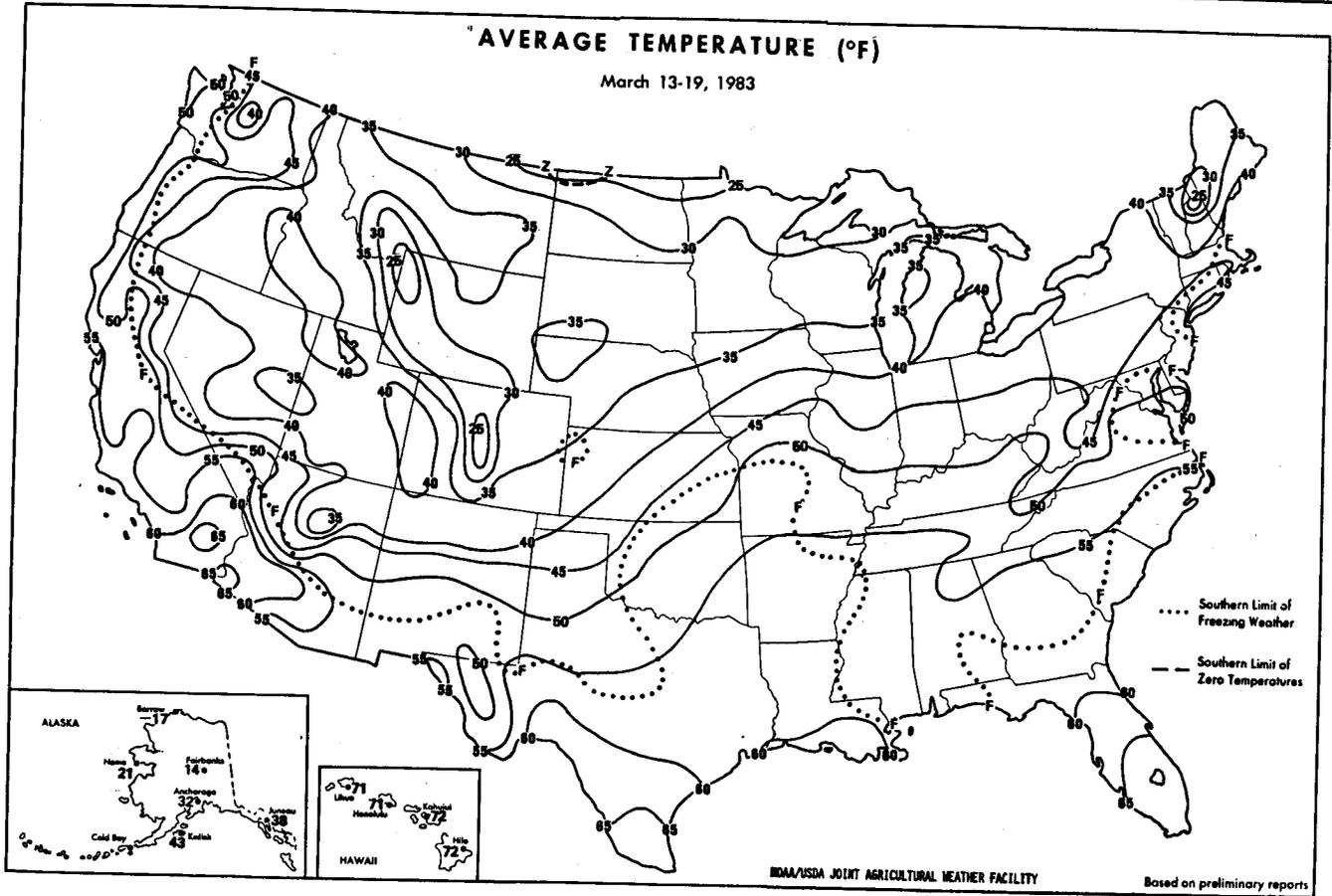
SUNDAY ... Freezing temperatures again reached to the gulf coast of Mississippi and Alabama and throughout the Appalachians. A record-low temperature of 36° was recorded at Orlando, Fla. Later in the day, a record-high temperature of 71° was marked at Kansas City, Mo. Another storm moved across the Pacific coast. Strong southwesterly winds battered Washington and Oregon, while rain fell over the entire west coast and over the northern and central Plateau to the Rockies.

MONDAY ... Warmer temperatures covered the East and South. However, freezing temperatures reached into Pennsylvania and in isolated spots to North Carolina. The Pacific storm moved eastward and began to redevelop in Colorado. Light to moderate rainshowers fell along the coast of Washington and Oregon and to northern California. Light showers fell over the Plateau and through the Rockies. Heavier showers--snow at the higher elevations--covered the central Rockies where the storm was deepening, and light to moderate snow reached into the northern Plateau.

TUESDAY ... The developing storm moved into the southern Plains and spread heavy snow through the

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Weather Data for the Week Ending Mar. 19, 1983

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS					
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Feb. 27	PCT. NORMAL SINCE Feb. 27	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE °F		PRECIPITATION		
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE	
AL BIRMINGHAM	66	45	76	27	55	2	.2	-1.2	.1	3.5	81	14.7	104	92	47	0	1	3	0	
MOBILE	67	47	74	32	57	-2	1.1	-.5	.7	6.3	134	21.2	151	93	50	0	1	3	1	
MONTGOMERY	68	46	74	30	57	1	1.0	-.5	.5	4.5	107	17.3	137	89	49	0	1	2	1	
AK ANCHORAGE	40	24	42	16	32	9	T	.1	T	0	0	.5	23	84	48	0	7	0	0	
BARROW	-12	-21	-7	-24	-17	-1	T	0	T	0	0	.1	14	82	62	0	7	0	0	
FAIRBANKS	28	1	35	-3	14	5	T	.1	T	.1	25	.5	36	66	62	0	6	1	0	
JUNEAU	47	29	50	26	38	6	.1	-.8	.1	.4	15	5.7	58	96	56	0	6	1	0	
KODIAK	46	39	48	36	43	11	1.9	1.1	.5	3.4	117	20.1	161	99	80	0	7	1	0	
NOME	28	13	39	-3	21	14	T	.2	T	.2	25	.4	16	74	49	0	7	1	0	
AZ PHOENIX	71	52	80	45	62	2	.3	.1	.2	2.7	450	4.6	230	75	29	0	0	3	0	
PRESOTT	52	34	64	27	43	-1	.5	.3	.3	1.6	200	3.1	86	90	46	0	2	3	0	
TUCSON	67	46	76	35	57	-1	.4	.2	.4	1.1	220	3.8	190	68	25	0	0	2	0	
YUMA	77	55	86	51	66	2	0	.1	0	.2	100	1.0	125	47	20	0	0	0	0	
AR FORT SMITH	69	43	79	37	56	6	.1	-.7	.1	1.2	50	4.3	56	90	41	0	0	1	0	
LITTLE ROCK	66	43	71	37	54	3	.4	-.8	.2	2.6	76	6.5	57	83	46	0	0	2	0	
CA BAKERSFIELD	64	45	75	39	55	-2	.8	.6	.3	1.5	250	4.8	209	98	52	0	0	4	0	
EUREKA	60	43	63	37	52	4	1.3	.2	.7	4.0	114	21.0	134	83	58	0	0	4	1	
FRESNO	62	46	67	41	54	1	1.5	1.1	.6	3.5	318	11.6	258	93	52	0	0	4	1	
LOS ANGELES	65	51	70	46	58	1	1.0	.6	.6	6.0	462	15.8	255	83	49	0	0	4	1	
RED BLUFF	63	44	67	40	53	0	.6	.1	.4	8.5	472	21.4	235	86	45	0	0	4	0	
SACRAMENTO	60	45	64	41	52	0	1.8	1.3	1.2	5.8	341	14.0	179	95	58	0	0	4	1	
SAN DIEGO	68	56	71	52	62	3	1.2	.9	.6	5.3	530	10.6	247	84	55	0	0	4	3	
SAN FRANCISCO	59	47	62	43	53	0	2.7	2.1	1.0	6.9	363	19.3	214	86	58	0	5	5	0	
CO DENVER	39	26	64	16	33	-4	1.2	.9	.7	4.2	525	4.4	244	87	62	0	5	3	1	
GRAND JUNCTION	51	37	65	34	44	3	1.1	1.0	1.0	1.3	325	2.5	147	93	53	0	5	6	0	
PUEBLO	45	30	70	22	37	-2	1.3	1.2	.1	1.8	300	2.4	200	96	62	0	1	2	2	
CT BRIDGEPORT	52	37	59	30	45	7	1.6	.8	.9	3.4	148	8.5	110	83	56	0	1	2	1	
HARTFORD	54	36	62	25	45	10	1.6	.8	1.4	4.3	172	12.9	147	71	46	0	1	2	1	
DC WASHINGTON	63	42	76	37	53	8	1.0	.3	1.0	2.9	132	7.9	108	79	43	0	0	2	1	
FL APALACHICOLA	65	48	69	37	56	-4	1.2	.1	.7	3.1	97	12.2	127	93	69	0	0	3	2	
DAYTONA BEACH	71	52	78	35	61	-2	4.0	3.3	2.5	5.7	248	14.2	197	89	52	0	0	3	2	
JACKSONVILLE	69	49	76	35	59	-2	3.2	2.5	1.5	5.9	236	17.3	204	97	55	0	0	4	3	
KEY WEST	73	64	76	60	68	-6	2.9	2.6	1.3	4.6	418	25.7	571	87	67	0	0	5	2	
MIAMI	75	59	79	48	67	-4	1.7	1.3	.9	4.8	400	15.5	298	94	56	0	0	3	2	
ORLANDO	74	54	81	36	64	-2	1.7	.9	1.0	3.1	129	13.0	173	96	53	0	1	4	2	
TALLAHASSEE	69	48	78	31	59	-2	2.6	1.2	1.2	9.8	233	19.7	159	95	54	0	0	3	2	
TAMPA	71	56	79	43	64	-2	1.4	.5	1.0	4.2	156	12.3	162	95	65	0	0	4	1	
WEST PALM BEACH	74	58	79	45	66	-4	1.5	.7	1.1	4.6	209	21.9	308	89	54	0	0	3	1	
GA ATLANTA	65	44	74	31	55	4	.2	-1.1	.2	2.4	63	10.1	83	83	46	0	1	3	0	
AUGUSTA	69	43	77	30	56	1	1.5	.4	1.2	5.1	159	14.8	148	87	44	0	1	2	1	
MACON	68	46	75	30	57	1	1.4	.2	.8	4.5	125	17.1	149	97	56	0	1	3	1	
SAVANNAH	69	51	75	37	60	2	3.5	2.4	2.4	7.7	257	18.4	214	89	48	0	0	4	0	
HI HILO	79	64	85	61	72	1	.4	-2.6	.1	.5	5	2.1	7	88	48	0	0	4	0	
HONOLULU	78	64	81	62	71	-2	.2	-.6	.2	.4	17	.7	8	81	51	0	0	1	0	
KAHULUI	79	65	86	62	72	0	1.0	.3	.6	1.0	48	1.6	20	87	53	0	0	4	1	
LIHUE	76	65	79	63	71	-1	.4	-1.0	.3	.5	16	1.3	10	71	52	0	0	1	0	
ID BOISE	50	34	58	28	42	1	.2	0	.2	1.1	183	3.3	127	85	39	0	3	1	0	
LEWISTON	54	33	60	27	44	1	1.1	.9	.6	1.4	233	3.0	125	90	53	0	5	5	1	
POCATELLO	43	30	50	23	37	1	1.4	.9	1.3	2.0	133	4.8	104	95	66	0	6	2	1	
IL CHICAGO	45	30	54	23	37	2	1.1	.9	.2	1.2	75	3.2	73	85	54	0	2	2	0	
MOLINE	52	34	59	29	43	8	.2	-.4	.2	1.2	119	3.4	71	85	52	0	2	2	1	
PEORIA	54	35	62	31	44	7	1.2	-.6	1.1	1.9	119	3.4	71	85	52	0	2	2	1	
QUINCY	55	37	63	30	46	7	.3	-.4	.3	1.7	94	2.6	53	88	59	0	1	1	0	
ROCKFORD	47	32	58	27	39	6	1.1	.5	1.0	1.8	120	4.0	87	94	60	0	3	2	1	
SPRINGFIELD	55	35	64	29	45	6	1.3	.7	1.2	2.4	150	3.8	76	96	60	0	1	2	1	
IN EVANSVILLE	61	39	73	27	50	6	.4	-.8	.2	2.6	81	5.2	54	81	43	0	1	2	0	
FORT WAYNE	53	34	60	25	44	7	.3	-.3	.3	.6	32	2.3	37	85	51	0	2	1	0	
INDIANAPOLIS	56	36	64	26	46	6	.6	-.3	.4	1.4	56	3.4	45	90	55	0	2	2	0	
SOUTH BEND	52	34	61	26	43	8	.5	-.1	.4	1.4	82	3.1	52	90	55	0	3	3	0	
IA DES MOINES	48	35	62	30	41	8	.5	-.1	.3	1.7	113	5.0	135	86	63	0	2	3	1	
SIoux CITY	40	31	55	27	35	3	1.0	.7	.9	3.4	378	4.5	196	84	66	0	7	3	1	
WATERLOO	45	33	54	28	39	8	1.4	.9	1.2	2.8	215	5.0	161	94	74	0	1	4	1	
KS CONCORDIA	47	32	68	29	40	1	.2	-.2	.2	1.5	167	4.3	195	89	66	0	4	2	0	
DODGE CITY	50	34	83	28	42	1	.9	-.6	.5	.9	129	2.8	156	80	57	0	4	4	0	
GOODLAND	43	30	70	22	36	0	1.0	-.8	.7	1.4	233	2.5	179	89	65	0	5	4	1	
TOPEKA	55	38	73	32	47	6	.2	-.3	.2	2.5	208	3.8	123	83	57	0	1	1	0	
WICHITA	53	36	76	31	45	1	.5	-.1	.4	1.6	160	4.7	174	92	67	0	1	2	0	
KY BOWLING GREEN	61	39	74	23	50	2	.2	-1.0	.1	1.2	33	5.6	43	92	55	0	2	2	0	
LEXINGTON	59	39	68	25	49	5	.2	-.9	.1	.7	22	3.5	34	84	48	0	2	2	0	
LOUISVILLE	60	39	69	23	49	5	.3	-.9	.2	.9	27	3.9	39	84	46	0	2	2	0	
LA ALEXANDRIA	71	47	77	43	59	0	-1	-1.1	.1	1.6	44	12.5	97	76	37					

Weather Data for the Week Ending Mar. 19, 1983

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Feb. 27	PCT. NORMAL SINCE Feb. 27	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
ME SHREVEPORT	71	44	77	39	57	0	.2	-.7	.1	1.5	56	12.5	125	92	45	0	0	3	0
ME CARIBOU	37	30	41	27	34	10	.1	-.4	T	2.2	147	6.8	119	91	72	0	7	4	0
MD PORTLAND	46	33	53	27	40	8	2.6	1.8	2.3	6.8	283	15.3	172	94	62	0	3	5	1
MD BALTIMORE	59	38	69	32	49	6	1.7	.9	1.6	4.6	192	11.7	146	84	46	0	1	2	1
MA SALISBURY	60	41	71	31	50	5	2.3	1.4	2.3	5.5	204	10.6	114	89	53	0	1	1	1
MA BOSTON	60	41	71	31	50	5	2.3	1.4	2.3	5.5	204	10.6	114	89	53	0	1	1	1
MA CHATHAM	46	38	61	36	44	6	.8	-.2	.7	8.1	289	18.1	185	90	62	0	0	4	1
MI ALPENA	43	28	49	18	36	10	1.0	-.6	.6	2.0	167	4.8	112	96	64	0	4	3	1
MI DETROIT	52	33	59	22	43	8	.3	-.3	.2	.7	44	2.3	45	86	49	0	3	3	0
MI FLINT	52	33	58	25	42	10	.5	0	.2	1.3	100	3.3	69	88	52	0	4	3	0
MI GRAND RAPIDS	49	29	56	20	39	7	1.2	-.7	.8	2.1	150	4.7	98	85	54	0	4	4	1
MI HOUGHTON LAKE	45	29	53	21	37	11	.7	-.3	.4	2.1	191	4.2	108	91	63	0	4	3	0
MI LANSING	51	31	58	23	41	8	.6	0	.4	1.7	106	3.5	67	93	54	0	5	3	0
MI MARQUETTE	33	23	43	18	28	6	2.0	1.5	1.6	4.1	293	10.0	204	97	73	0	7	5	1
MI MUSKEGON	47	31	57	19	39	7	1.1	-.5	.8	1.7	106	4.0	73	88	57	0	4	3	1
MI SAULT STE. MARIE	41	24	49	15	33	9	1.5	1.1	.9	2.8	255	6.1	133	95	64	0	7	3	2
MN ALEXANDRIA	36	28	41	26	32	9	.1	-.2	.1	1.4	200	2.5	132	93	66	0	7	2	0
MN DULUTH	31	22	36	12	27	3	.2	-.2	.1	1.4	156	3.2	110	87	59	0	7	3	0
MN INT'L FALLS	32	22	36	16	27	7	.1	-.2	T	.7	100	1.8	86	89	61	0	7	2	0
MN MINNEAPOLIS	40	29	52	26	35	7	.8	.4	.4	2.2	200	4.0	167	96	65	0	7	4	0
MN ROCHESTER	37	30	47	25	34	6	.7	-.3	.4	1.4	140	3.4	155	89	72	0	7	4	0
MS GREENWOOD	70	48	78	33	59	5	.4	-.9	.4	2.8	72	14.1	106	91	49	0	0	2	0
MS JACKSON	71	45	77	30	58	2	.2	-.2	.1	4.2	108	18.3	144	97	44	0	1	2	0
MS MERIDIAN	71	45	78	30	58	2	1.2	-.3	1.0	4.5	105	16.8	127	94	48	0	1	3	1
MO CAPE GIRARDEAU	63	42	70	31	53	7	.3	-.6	.2	1.3	54	2.7	31	95	58	0	1	2	0
MO COLUMBIA	61	40	74	33	51	9	.4	-.2	.4	1.4	82	2.2	46	85	52	0	0	1	0
MO KANSAS CITY	56	37	75	31	47	6	.3	-.3	.3	1.4	93	2.6	67	92	59	0	2	1	0
MO SAINT LOUIS	60	39	70	29	50	7	.7	0	.5	1.7	94	3.0	55	98	54	0	1	3	0
MO SPRINGFIELD	65	42	79	33	54	10	.4	-.2	.4	1.4	78	2.7	48	87	40	0	0	1	0
MT BILLINGS	43	28	58	20	36	4	.3	.1	.1	.4	67	.8	42	88	53	0	6	5	0
MT GLASGOW	36	26	47	19	31	6	.2	.1	.2	.6	300	.8	73	82	62	0	6	3	0
MT GREAT FALLS	42	24	61	11	33	3	.4	-.2	.2	1.0	143	1.4	64	89	49	0	6	4	0
MT HAVRE	42	25	53	15	33	7	.3	.1	T	.4	133	.8	62	95	54	0	7	2	0
MT HELENA	44	26	63	19	35	5	.3	.1	.1	.3	75	.7	58	81	40	0	6	5	0
MT KALISPELL	44	27	51	19	36	6	T	-.1	T	1.1	183	3.0	100	83	47	0	6	1	0
MT MILES CITY	42	29	53	23	36	6	.1	.1	.1	.9	180	1.2	92	85	46	0	5	1	0
MT MISSOULA	46	27	53	17	37	4	.1	-.1	.1	.8	200	2.3	105	87	42	0	5	2	0
NE GRAND ISLAND	42	30	65	27	36	1	1.0	.8	.7	1.9	317	2.9	171	87	63	0	6	4	1
NE LINCOLN	46	31	63	27	38	2	.8	.5	.7	2.0	222	3.5	159	94	67	0	6	2	0
NE NORFOLK	41	30	60	28	35	3	1.2	.9	.7	2.2	275	3.6	164	86	64	0	7	4	1
NE NORTH PLATTE	41	28	66	17	34	0	.3	.1	.2	1.1	183	1.7	113	88	62	0	5	2	0
NE OMAHA	41	32	58	28	36	2	1.0	.6	.9	2.9	290	5.1	196	92	76	0	5	4	1
NE SCOTTSBLUFF	42	27	65	16	35	1	.4	.2	.1	1.3	260	1.5	150	81	54	0	5	4	0
NE VALENTINE	38	27	59	18	33	2	.5	.3	.2	.9	225	1.2	92	81	60	0	6	4	0
NV ELY	44	24	55	17	34	2	.1	-.1	.1	.8	133	3.2	178	89	46	0	6	2	0
NV LAS VEGAS	65	48	74	39	56	2	T	-.1	T	.8	267	1.6	145	57	20	0	0	2	0
NV RENO	46	28	51	24	37	-3	.5	.4	.2	1.2	240	3.9	163	95	47	0	6	4	0
NV WINNEMUCCA	50	29	58	23	39	2	.2	.1	.1	.9	180	2.8	127	84	33	0	6	2	0
NH CONCORD	48	34	55	30	41	9	1.7	1.0	1.5	5.9	311	12.0	174	82	52	0	2	4	1
NJ ATLANTIC CITY	58	39	72	31	48	7	1.1	.1	1.0	4.0	133	9.0	92	92	54	0	1	2	1
NM ALBUQUERQUE	61	34	70	30	47	2	.4	.3	.2	.5	167	2.3	230	85	30	0	4	4	0
NM CLOVIS	58	34	76	27	46	0	.4	.2	.2	.4	100	1.8	150	76	39	0	4	4	0
NM ROSWELL	65	37	79	28	51	2	.1	0	.1	.1	33	.7	78	60	24	0	2	1	0
NY ALBANY	52	36	60	29	44	11	1.0	.4	.7	3.8	211	9.5	161	91	56	0	2	2	1
NY BINGHAMTON	48	32	56	26	40	9	.6	0	.4	1.9	106	5.9	94	83	55	0	4	2	0
NY BUFFALO	52	32	61	23	42	10	1.0	.4	.6	1.8	90	4.5	61	88	49	0	3	2	1
NY ROCHESTER	52	33	57	26	43	10	.3	-.3	.2	1.2	238	13.3	160	72	47	0	0	7	1
NY SYRACUSE	53	32	66	27	42	10	.2	-.4	.1	1.0	50	4.0	56	88	50	0	3	2	0
NC ASHEVILLE	63	39	74	30	51	5	2.0	.9	1.6	3.8	123	12.7	131	87	44	0	1	2	1
NC CHARLOTTE	64	41	76	30	52	2	1.9	.9	1.6	3.5	117	11.2	110	84	41	0	1	2	1
NC GREENSBORO	61	40	76	32	50	2	2.0	1.2	1.1	4.2	162	9.4	103	84	42	0	1	2	2
NC HATTERAS	63	48	71	40	56	5	2.4	1.6	1.6	6.9	256	23.5	218	91	57	0	0	2	2
NC NEW BERN	68	46	80	36	57	3	2.8	1.9	1.5	7.6	262	19.6	190	93	53	0	0	3	2
NC RALEIGH	64	42	79	31	53	4	3.9	3.1	3.1	6.5	260	14.3	159	85	46	0	1	2	2
NC WILMINGTON	68	46	77	36	57	3	3.8	2.9	2.7	6.1	218	18.3	199	93	52	0	0	3	2
ND BISMARCK	34	26	38	15	30	5	T	-.1	T	1.7	567	2.2	157	92	70	0	7	1	0
ND FARCO	32	25	36	21	29	5	T	-.1	T	2.1	700	2.8	233	89	71	0	7	2	0
ND GRAND FORKS	33	24	37	19	29	6	.1	-.1	.1	1.8	360	2.4	150	79	67	0	7	2	0
ND WILLISTON	34	22	41	5	28	4	.1	0	.1	1.0	333	1.4	117	87	70	0	7	4	0
OH AKRON-CANTON	53	34	61	22	44	8	.8	-.1	.6	2.4	120	5.3	78	81	53	0	3	2	1
OH CINCINNATI	57	37	67	24	47	5	.3	-.7	.2	.9	32	3.6	40	86	47	0	2	3	0
OH CLEVELAND	52	34	62	22	43	7	.9	.2	.8	2.0	100	3.9	59	76	49	0	2	2	1
OH COLUMBUS	56	36	65	23	46	7	.3	-.4	.2	.8	36	2.7	38	82	47	0	2	3	0

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

Weather Data for the Week Ending Mar. 19, 1983

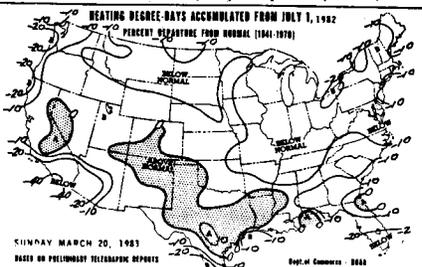
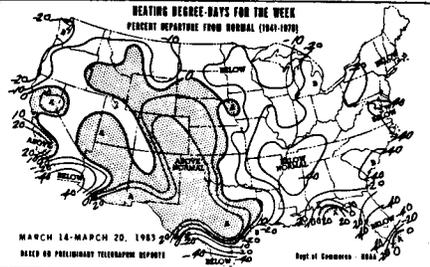
STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS						
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Feb. 27	PCT. NORMAL SINCE Feb. 27	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	52 AND BELOW	TEMPERATURE		PRECIPITATION	
																		°F	°F	.01 INCH OR MORE	.50 INCH OR MORE
DAYTON	55	34	63	25	45	6	.2	-.5	.2	1.7	85	3.8	55	83	48	0	3	2	0	0	
TOLEDO	50	32	58	20	41	6	.2	-.3	.2	.8	53	2.2	42	88	57	0	3	3	0	1	
YOUNGSTOWN	52	33	61	20	43	8	1.1	-.4	.7	2.9	145	5.2	73	86	56	0	3	2	0	0	
OK OKLAHOMA CITY	60	41	81	34	51	3	.1	-.4	-.1	.8	67	5.3	147	92	58	0	0	2	0	0	
TULSA	62	45	79	37	53	5	.3	-.2	.3	1.0	67	6.2	135	90	55	0	0	1	0	0	
OR ASTORIA	60	41	66	35	51	7	1.1	-.4	.6	5.2	108	27.4	126	89	49	0	0	3	2	0	
BURNS	44	30	51	25	37	1	.2	0	-.1	1.9	211	4.4	122	87	49	0	5	4	0	0	
MEDFORD	57	38	61	34	48	3	.5	-.2	.3	1.1	100	7.7	115	94	47	0	0	2	0	0	
PENDLETON	54	35	59	31	45	1	.1	-.2	-.1	2.4	343	4.6	144	81	35	0	3	1	0	0	
PORTLAND	59	42	67	36	51	5	.8	0	.7	4.2	162	18.2	148	83	43	0	0	2	1	1	
SALEM	59	37	63	30	48	3	.8	-.2	.5	4.3	134	20.7	142	88	47	0	2	2	1	1	
PA ALLENTOWN	55	38	62	33	47	9	1.0	-.2	.8	2.7	113	8.8	110	79	44	0	0	2	1	1	
ERIE	50	33	60	25	42	9	1.1	.5	1.0	2.4	141	5.0	79	81	52	0	4	2	1	0	
HARRISBURG	55	36	62	31	46	5	1.3	.6	.7	2.8	127	8.4	118	78	47	0	1	0	0	0	
PHILADELPHIA	57	38	67	30	48	6	1.4	.6	1.4	4.0	167	10.3	134	83	47	0	1	2	1	0	
PITTSBURGH	53	32	62	23	43	5	.9	-.1	.6	2.0	87	4.9	66	80	46	0	4	2	1	0	
SCRANTON	51	34	59	27	42	7	.4	-.2	.4	2.1	124	4.8	84	76	56	0	3	1	0	0	
RI PROVIDENCE	51	38	61	35	44	8	1.9	.9	1.1	6.3	225	15.3	161	90	58	0	0	2	2	2	
SC CHARLESTON	69	50	73	38	59	3	3.6	2.5	3.2	9.2	288	19.8	215	94	53	0	0	3	1	1	
COLUMBIA	68	42	79	31	55	1	3.0	1.9	3.0	6.2	194	14.2	145	93	46	0	1	2	1	1	
FLORENCE	69	46	79	36	57	3	3.9	3.0	3.8	6.6	244	15.3	182	89	49	0	0	3	1	1	
GREENVILLE	66	42	77	38	54	3	1.9	.7	1.8	3.6	100	11.4	97	83	41	0	0	3	1	0	
SD ABERDEEN	36	30	40	23	33	6	T	-.2	T	1.8	450	2.2	147	87	72	0	6	3	0	0	
HURON	38	31	44	28	34	6	.2	0	.1	1.6	267	1.7	113	99	78	0	6	3	0	0	
RAPID CITY	39	27	58	15	33	2	.2	0	.1	.6	100	.9	64	85	59	0	6	4	0	0	
SIoux FALLS	36	29	47	25	32	3	.6	.3	.4	2.5	278	3.3	132	98	81	0	6	4	0	0	
TN CHATTANOOGA	68	43	76	24	55	6	.3	-.9	.2	2.0	53	9.1	65	90	39	0	1	3	0	0	
KNOXVILLE	66	40	75	23	53	4	.2	-.1	.2	.8	23	5.6	44	89	43	0	1	1	0	0	
MEMPHIS	70	49	78	35	59	8	.2	-.7	.3	2.8	82	8.3	68	86	44	0	1	2	0	0	
NASHVILLE	66	43	78	23	55	6	.4	-.7	.3	2.8	82	8.3	68	86	44	0	1	2	0	0	
TX ABILENE	64	43	81	32	53	-1	1.2	1.0	.7	1.3	217	3.6	144	90	58	0	1	3	1	1	
AMARILLO	54	32	77	25	43	-2	.8	.7	.6	.9	225	3.9	300	89	49	0	4	3	1	1	
AUSTIN	65	49	74	41	57	-2	2.0	1.7	1.2	3.2	246	8.1	131	91	64	0	0	3	2	0	
BEAUMONT	70	49	74	44	60	0	T	-.6	T	.7	33	10.2	102	97	52	0	0	0	0	0	
BROWNSVILLE	78	57	84	48	68	0	.4	.3	.2	.4	100	4.1	128	91	48	0	0	2	0	1	
CORPUS CHRISTI	72	54	77	46	63	-2	2.4	2.2	2.2	2.5	278	6.6	150	96	65	0	0	3	1	0	
DEL RIO	72	51	81	43	61	-1	.2	0	T	.7	140	2.4	120	84	40	0	0	1	0	0	
EL PASO	66	43	77	35	55	0	.3	.2	.3	.4	133	1.3	130	67	23	0	0	1	0	0	
FORT WORTH	66	46	76	39	56	2	1.2	.6	.7	1.8	113	5.6	100	86	51	0	0	3	1	1	
GALVESTON	66	53	71	45	59	-1	.2	.4	.2	.6	33	8.1	113	95	76	0	0	1	0	0	
HOUSTON	70	47	76	40	59	-2	-.1	.4	.1	.7	37	6.7	75	93	48	0	0	1	0	0	
LUBBOCK	61	36	83	25	49	0	T	-.2	T	0	0	3.0	200	84	39	0	4	0	0	0	
MIDLAND	69	40	82	31	55	1	T	-.1	T	.1	25	1.6	107	84	24	0	1	1	0	0	
SAN ANGELO	68	44	81	33	56	-1	.5	.2	.3	.8	133	3.3	150	91	44	0	0	3	0	0	
SAN ANTONIO	68	51	74	40	59	-1	.5	.3	.4	.9	100	3.9	91	87	57	0	0	3	0	0	
VICTORIA	69	50	76	40	60	-2	1.1	.6	.6	1.2	86	6.7	129	96	63	0	0	4	1	1	
WACO	66	48	73	37	57	0	.9	.4	.4	2.7	180	6.9	119	91	62	0	0	3	0	0	
WICHITA FALLS	63	43	84	37	53	1	.6	.2	.3	.7	70	3.5	109	95	60	0	0	3	0	0	
UT BLANDING	48	31	59	27	39	1	.4	.2	.2	.7	117	3.8	152	90	57	0	6	2	0	0	
CEDAR CITY	49	32	62	23	41	3	.9	.6	.4	1.1	157	3.0	150	78	45	0	4	5	0	1	
SALT LAKE CITY	49	35	58	30	42	3	1.5	1.1	.7	2.2	200	4.7	142	88	48	0	3	5	0	1	
VT BURLINGTON	48	30	52	18	39	10	1.0	.6	.6	1.8	150	6.6	143	93	53	0	5	3	2	1	
VA NORFOLK	64	43	78	34	54	6	1.3	.5	.9	3.1	124	11.4	127	82	46	0	0	2	1	1	
RICHMOND	65	41	80	28	53	6	1.1	.3	.9	2.7	113	8.2	103	89	49	0	1	3	1	1	
ROANOKE	59	40	75	33	50	5	3.2	2.4	2.7	5.0	208	10.4	130	81	46	0	0	2	1	1	
WA COLVILLE	52	32	57	24	42	5	.3	0	.3	2.4	218	7.4	161	86	57	0	4	1	0	0	
QUILLAYUTE	58	35	63	29	46	4	1.7	-.7	1.1	8.5	110	42.5	126	94	48	0	2	3	2	2	
SEATTLE-TACOMA	58	42	63	40	50	6	.1	-.7	-.1	2.7	104	14.2	116	83	41	0	0	2	0	0	
SPOKANE	50	32	54	26	41	4	.2	-.2	.2	1.4	127	5.5	106	82	43	0	3	1	0	0	
YAKIMA	59	34	61	28	47	5	.5	-.4	.5	1.5	500	5.1	204	81	34	0	2	1	1	1	
WV BECKLEY	55	37	65	28	46	6	.5	-.5	.5	1.0	36	3.0	32	85	50	0	2	1	0	0	
CHARLESTON	61	40	71	28	50	6	.5	-.4	.4	1.9	70	5.8	64	75	39	0	1	2	0	0	
HUNTINGTON	61	40	70	29	51	7	.3	-.7	.2	1.2	43	4.5	52	84	43	0	1	3	0	0	
PARKERSBURG	59	38	67	25	49	6	.4	-.5	.3	1.5	56	5.3	58	80	40	0	1	2	0	0	
WI GREEN BAY	37	27	42	22	32	4	.7	.3	.4	1.5	150	3.7	119	95	72	0	6	5	0	1	
LA CROSSE	40	29	48	24	35	4	.9	.4	.5	1.3	100	2.9	97	98	69	0	7	3	1	1	
MADISON	41	29	49	26	35	5	1.0	.6	.7	1.6	145	4.3	134	93	66	0	7	4	1	1	
MILWAUKEE	41	30	44	24	35	5	1.2	.7	1.0	2.3	177	5.3	129	93	70	0	4	3	1	1	
WAUSAU	38	27	44	21	33	7	.4	0	.2	1.2	109	3.3	97	91	67	0	6	4	0	0	
WY CASPER	39	26	62	15	32	2	.9	.7	.4	1.5	300	2.4	171	94	56	0	6	6	0	0	
CHEYENNE	34	24	60	11	29	-2	.5	-.3	.2	1.9	317	1.9	136	93	72	0	5	5	0	0	
LANDER	40	27	60	19	33	3	.5	-.2	.2	.8	114	1.4	78	88	55	0	6	5	0	0	
SHERIDAN	45	28	61	22	37	6	.1	-.2	T	.2	29	.5	26	77	43	0	7	2	0	0	
PR SAN JUAN	92	77	96	74	85	9	T	-.4	T	1.4	100	2.3	31	81	51	6	0	0	0	0	

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

+100 = NORMAL & ACTUAL NEAR THE SAME

HEATING DEGREE DAYS (BASE 65°) FOR WEEK ENDING MAR. 20, 1983.

STATES AND STATIONS	WEEKLY		SEASONAL ACCUMULATION +			STATES AND STATIONS	WEEKLY		SEASONAL ACCUMULATION +			STATES AND STATIONS	WEEKLY		SEASONAL ACCUMULATION +		
	TOTAL	DEPARTURE*	TOTAL	DEPARTURE*	DEPARTURE FROM 1981-82		TOTAL	DEPARTURE*	TOTAL	DEPARTURE*	DEPARTURE FROM 1981-82		TOTAL	DEPARTURE*	TOTAL	DEPARTURE*	DEPARTURE FROM 1981-82
ALA. BIRMINGHAM...	56	32	2370	232	142	MAINE CARIBOU...	21	4	7166	565	519	YOUNGSTOWN...	150	57	4295	1033	1367
MOBILE...	42	1	1617	29	88	PORTLAND...	173	37	5404	613	576	OKLA. OKLAHOMA CITY...	120	10	3040	287	314
MONTGOMERY...	42	23	1804	301	214	MD. BALTIMORE...	108	46	3655	419	735	TULSA...	109	10	2927	398	418
ARIZ. FLAGSTAFF...	227	120	5517	491	49	MASS. BOSTON...	139	48	4131	494	813	OREG. ASTORIA...	101	46	3097	814	424
PHOENIX...	73	1	952	491	140	MICH. ALPENA...	203	59	5676	1108	1382	BURNS...	200	4	5967	280	196
TUCSON...	152	1	2215	82	147	DETROIT...	160	59	4694	762	1334	MEDFORD...	122	19	3534	401	211
HINSDALE...	148	1	3929	126	230	FLINT...	160	59	4694	762	1334	PENDLETON...	142	4	3924	368	224
YUMA...	148	1	651	307	77	GRAND RAPIDS...	180	43	4695	839	1020	PORTLAND...	101	4	3134	634	189
ARK. FORT SMITH...	77	30	2959	97	308	HOUGHTON LAKE...	204	64	5707	1067	1217	SALEM...	142	4	4119	544	379
LITTLE ROCK...	70	46	2708	356	240	LANSING...	171	53	4785	933	1493	PA. ALLENTOWN...	121	66	4259	650	962
CALIF. BAKERSFIELD...	79	18	2064	123	459	MARGUETTE...	172	53	4785	933	1493	ERIE...	121	66	4259	650	962
EUREKA...	79	18	2064	123	459	MUSKEGON...	172	53	4785	933	1493	HARRISBURG...	121	66	4259	650	962
FRESNO...	79	18	2064	123	459	S. STE. MARIE...	172	53	4785	933	1493	PHILADELPHIA...	121	66	4259	650	962
LOS ANGELES...	56	0	2152	147	374	MINN. DULUTH...	275	14	7349	534	940	PITTSBURGH...	121	66	4259	650	962
RED BLUFF...	89	4	2146	70	84	INTERNATL FALLS...	277	32	7684	100	993	SCRANTON...	121	66	4259	650	962
SAN DIEGO...	22	25	590	17	19	MINNEAPOLIS...	223	33	5875	100	1251	R. I. PROVIDENCE...	136	60	4216	658	934
SAN FRANCISCO...	89	4	2221	75	84	ROCHESTER...	231	31	6062	822	1278	S. C. CHARLESTON...	31	36	1679	296	402
STOCKTON...	89	4	2358	32	149	ST. CLOUD...	240	21	6648	777	911	COLUMBIA...	60	20	2402	6	120
COLO. DENVER...	253	56	4937	58	636	MISS. JACKSON...	42	28	2150	13	91	GREENVILLE...	73	28	2713	151	434
GRAND JUNCTION...	157	42	4111	708	477	MD. BALTIMORE...	108	46	3655	419	735	S. DAK. ABERDEEN...	233	31	6046	1105	1190
PUEBLO...	218	42	4365	206	301	MO. COLUMBIA...	117	48	3916	503	743	HURON...	242	48	5455	1179	822
CONN. BRIDGEPORT...	134	55	4139	314	723	KANSAS CITY...	155	108	4224	619	743	RAPID CITY...	242	48	5455	1179	822
HARTFORD...	133	71	4668	635	646	ST. LOUIS...	118	33	3293	475	507	STOUX FALLS...	240	48	6053	563	602
DEL. WILMINGTON...	98	63	3540	671	1021	SPRINGFIELD...	94	55	3504	495	552	TENN. CHATTANOOGA...	66	43	2441	313	384
D. C. WASHINGTON...	78	60	3051	643	675	MONT. BILLINGS...	221	21	4850	101	969	KNOXVILLE...	74	44	2641	313	384
FLA. APALACHICOLA...	46	8	1136	15	61	GLASGOW...	240	36	4850	837	1093	MEMPHIS...	40	40	2500	44	476
DAYTONA BEACH...	29	0	1136	15	61	GREAT FALLS...	250	50	5508	1093	1443	NASHVILLE...	63	40	2641	487	568
FORT MYERS...	29	0	1136	15	61	HAVRE...	250	50	5508	1093	1443	TEXAS ABILENE...	107	40	2390	23	293
JACKSONVILLE...	3	3	1303	180	30	HELENA...	250	50	5508	1093	1443	AMARILLO...	187	40	2671	23	293
KEY WEST...	0	0	1303	180	30	KALISPELL...	250	50	5508	1093	1443	AUSTIN...	187	40	2671	23	293
LAKELAND...	0	0	1303	180	30	MILES CITY...	250	50	5508	1093	1443	BEAUMONT...	187	40	2671	23	293
MIAMI...	0	0	1303	180	30	MISSOULA...	250	50	5508	1093	1443	BROWNSVILLE...	187	40	2671	23	293
ORLANDO...	11	9	1303	180	30	NEBR. GRAND ISLAND...	223	16	5199	254	693	CORPUS CHRISTI...	32	4	3940	28	28
TALLAHASSEE...	35	1	1331	154	165	LINCOLN...	226	16	4825	519	967	DEL RIO...	32	4	3940	28	28
TAMPA...	35	1	1331	154	165	NORFOLK...	226	16	5346	505	832	FELT...	32	4	3940	28	28
WEST PALM BEACH...	35	1	1331	154	165	NORTH PLATTE...	226	16	5346	505	832	FORT WORTH...	32	4	3940	28	28
GA. ATLANTA...	70	30	2532	267	246	ORONHA...	226	16	5346	505	832	HOUSTON...	32	4	3940	28	28
AUGUSTA...	50	21	2158	197	262	VALENTINE...	256	18	5356	623	834	LUBBOCK...	32	4	3940	28	28
Macon...	45	17	1817	273	235	NEV. ELV...	227	1	5842	291	409	MIDLAND...	32	4	3940	28	28
SAVANNAH...	30	15	1575	247	94	LAS VEGAS...	73	3	2219	154	271	SAN ANGELO...	32	4	3940	28	28
IDAHO. BOISE...	112	5	4446	318	445	RENO...	202	2	4823	275	435	SAN ANTONIO...	32	4	3940	28	28
LEISTON...	55	3	3941	544	381	MINNEBUCCA...	190	4	4995	247	290	VICTORIA...	32	4	3940	28	28
POCATELLO...	210	11	5429	272	245	N. H. CONCORD...	159	67	5417	629	1111	WICHITA FALLS...	106	13	2621	62	13
ILL. CHICAGO...	86	38	3030	435	904	N. J. ATLANTIC CITY...	107	59	3784	396	578	UTAH SALT LAKE CITY...	175	3	4512	423	127
MOLINE...	156	41	4716	822	1418	TRENTON...	120	42	3810	395	741	VT. BURLINGTON...	177	73	5455	1023	1208
PEORIA...	156	41	4716	822	1418	N. MEX. ALBUQUERQUE...	333	38	3886	115	372	VA. LYNCHBURG...	106	29	3262	450	857
ROCKFORD...	156	41	4716	822	1418	ROSELLE...	112	26	3082	269	372	NORFOLK...	67	11	3608	479	538
SPRINGFIELD...	153	26	4284	907	1493	N. Y. ALBANY...	145	74	5125	634	1183	RICHMOND...	71	11	3505	479	538
IND. EVANSVILLE...	105	42	3321	756	823	BINGHAMTON...	168	67	5103	853	1093	ROANOKE...	101	37	3535	208	731
FORT WAYNE...	157	42	4288	944	1555	BUFFALO...	164	66	4714	909	1143	WASH. QUILLAYUTE...	130	31	4066	331	304
INDIANAPOLIS...	140	36	4095	692	1062	NEW YORK...	102	62	3687	488	682	SEATTLE-TACOMA...	130	31	4066	331	304
SOUTH BEND...	162	45	4361	1034	1445	ROCHESTER...	158	65	4665	850	1297	SPOKANE...	123	20	3505	458	302
IOWA BURLINGTON...	154	41	4459	825	1426	SYRACUSE...	158	65	4665	850	1297	HALLA HALLA...	123	20	3505	458	302
DES MOINES...	144	34	4781	963	1119	N. C. ASHEVILLE...	94	39	3414	254	330	YAKIMA...	123	20	3505	458	302
DUBUQUE...	144	34	4781	963	1119	CHARLOTTE...	79	29	2201	110	333	W. VA. BECKLEY...	121	52	4162	550	710
SIoux CITY...	221	1	5502	457	911	GREENSBORO...	96	29	3297	111	336	CHARLESTON...	121	52	4162	550	710
KANS. CONCORDIA...	198	16	4679	148	329	HATTERAS...	99	29	1952	209	613	HUNTINGTON...	121	52	4162	550	710
DODGE CITY...	198	16	4679	148	329	WILMINGTON...	49	11	2093	141	328	PARKERSBURG...	107	7	3395	772	1194
GOODLAND...	198	16	4679	148	329	N. DAK. BISMARCK...	255	23	6582	961	1165	WIS. GREEN BAY...	238	16	5938	748	1090
TOPERA...	198	16	4679	148	329	FARGO...	255	23	6582	961	1165	LACROSSE...	238	16	5938	748	1090
WICHITA...	198	16	4679	148	329	HILLSTON...	255	23	6582	961	1165	MADISON...	238	16	5938	748	1090
KY. LEXINGTON...	105	46	3551	564	689	OHIO AKRON-CANTON...	147	53	4270	918	1011	WY. CASPER...	243	3	5603	400	140
LOUISVILLE...	102	46	3425	631	688	CINCINNATI...	119	39	3692	676	1132	CHEYENNE...	243	3	5603	400	140
LA. BATON ROUGE...	28	18	1455	127	9	CLEVELAND...	147	47	4062	1038	1375	LANDER...	243	3	5603	400	140
LAKE CHARLES...	28	18	1455	127	9	COLUMBUS...	147	47	4062	1038	1375	SHERIDAN...	243	3	5603	400	140
NEW ORLEANS...	28	18	1455	127	9	DAYTON...	147	47	4062	1038	1375						
SHREVEPORT...	66	12	2148	128	51	TOLEDO...	170	34	4721	619	1349						



National Agricultural Summary

March 14 to 20

HIGHLIGHTS: Field activities came to a halt late in the week as snow fell across the central Plains through the Corn Belt. Wet fields across much of the Southeast continued to delay land preparation and spring seedings. Southern farmers had 2 to 5 days suitable for fieldwork. Soil moisture was adequate to surplus across the Nation and excessive in portions of the Southeast and along the Pacific coast. Corn planting became more widespread in the South, reaching 32 and 26% completion in Texas and Louisiana, respectively. However, progress was behind normal in all other areas. Sorghum planting continued with most activity taking place in Texas where seeding was 32% complete. Colder weather and snow slowed winter wheat development from the central Plains through the Corn Belt, but the crop remained in fair to mostly good condition in all major producing areas. Cotton planting continued in Arizona and Texas, but wet fields further delayed field preparation in California. Tobacco seeding and transplanting gained momentum. Peaches bloomed across the South from Texas to Georgia. Vegetable planting moved slowly northward. Wet fields delayed harvesting in California and Florida. Pastures were in fair to good condition across the South. Livestock producers continued supplemental feeding due to wet fields or snow in many areas across the Nation.

SMALL GRAINS... New snow cover and colder temperatures retarded winter wheat development from the central Plains through the Corn Belt. However, the moisture from the melting snow will rejuvenate small grain growth as warmer weather returns. Winter wheat was in good to excellent condition in Kansas and fair to mostly good in all other major wheat areas. Topdressing was more widespread but was frequently interrupted by showers across the South.

Kansas winter wheat stands received needed moisture from melting snow in western and northern portions of the State. The crop continued to show good growth. Producers sprayed to control light fungus and greenbug infestations. Spring seeding of oats and barley reached 40 and 30% completion, respectively.

Texas small grain fields continued to improve, but cold weather slowed development in North Texas and the Plains. Spraying reduced greenbug infestations in the Blacklands and Cross-Timbers. Wheat rated fair to mostly good Statewide. Moisture relieved dry conditions in portions of Oklahoma and stimulated small grain growth. Wheat and other small grains made good growth until cold temperatures retarded development late in the week.

Growers topdressed and planted small grains in the Corn Belt until rain and snow halted fieldwork. Winter wheat was jointing across the South. Farmers seeded small grains as fields began to dry.

OTHER CROPS... Corn planting became more widespread across the South as fields dried, but heavy rains from southern Alabama to North Carolina delayed planting. Most planting centered in the Gulf Coast States, ranging from 9% in Mississippi to 32% in Texas. Progress was above average in Texas and Louisiana, but behind elsewhere.

Sorghum planting was underway in scattered fields as far north as Arkansas but centered mostly in Texas. Showers interrupted planting in the Rio Grande Valley and South Texas; while snow cover stalled land preparation in North Texas and on the High Plains. Planting was 32% completed, slightly behind average.

Rice planting was delayed in Texas and Louisiana because fields were still too wet for seeding. Wet field conditions continued to slow tobacco transplanting from Florida to South Carolina. Transplants in some beds were developing rapidly. Auction sales continued in Maryland.

Cotton planting was active in Arizona's Yuma County. However, southeastern growers were behind due to wet conditions, and most other areas were limited to preplant activities. Texas cotton planting progressed slowly due to wet fields. Four percent of the cotton had been planted compared to the 6% average.

FRUIT AND NUTS... Pruning neared completion in most northern deciduous fruit orchards. Peaches were blooming from Texas to Georgia, and buds were swelling northward to Virginia.

Inclement weather slowed citrus harvesting in Florida. Groves were in very good to excellent condition with new growth on all trees. Cool weather slowed blooming. Very few blossoms were showing.

The Texas grapefruit harvest was slow, but Valencia orange picking continued steady. Peach trees were blooming across the State. Near freezing temperatures may have damaged some trees. Valencia oranges, sweet oranges, tangerines, grapefruit, and lemons were picked on a limited scale in Arizona due to poor market conditions. Citrus groves were in good condition, with a heavy bloom reported in the Yuma area.

California prunes came into full bloom, and many fruit and nut trees were leafing out. Producers were applying fungicides on all fruit and nut crops to prevent fungus infections. Navel orange packing held up despite increasing quality problems.

VEGETABLES... Seeding of early-season vegetables advanced northward. However, wet fields delayed planting in many areas.

Heavy rain, gusty winds, and hail slowed planting and harvesting in Florida. Some vegetable plant damage was reported in scattered areas. Growers were applying additional fertilizer and spraying as the weather permitted. Total shipments decreased 18% from the previous week. Volumes of sweet corn, cucumbers, potatoes, radishes, and strawberries increased. Supplies were steady for Chinese cabbage, but all other crops declined in volume. Strawberry plants were loaded with fruit - picking increased despite frequent showers. Harvesting of cabbage, carrots, lettuce, and spinach was briefly slowed by showers in Texas. Harvesting of spring onions began in the Rio Grande Valley. Onion transplanting was nearly completed by Trans-Pecos growers. Earlier seeded fields were recovering from wind damage. Arizona's spring lettuce harvest gained momentum. Cauliflower cutting was active in Yuma County. Volume harvesting of carrots, green onions, radishes, and other mixed vegetables continued in the Salt River Valley. Melon planting was active; early planted fields have emerged. Rains continued to hamper fieldwork in the northern half of California. Asparagus harvesting was in full swing in the Desert region, but saturated fields delayed cutting in the Delta area. Broccoli and cauliflower cutting was light along the central coast; some plant loss was reported due to soaked fields. Lettuce harvesting was in full swing in the Palo Verde Valley. However, planting was further delayed along the central coast. Tomato planting fell farther behind in the Sacramento and San Joaquin Valleys.

PASTURES AND LIVESTOCK... Pastures across the South were in fair to good condition and improving due to mild weather and plentiful soil moisture. Colder weather and snow from the central Plains to the Great Lakes and wet fields in California and the Southeast stressed livestock. Supplemental feeding continued in many areas. Calving and lambing continued with less than ideal conditions in most areas.

State Summaries of Weather and Agriculture

ALABAMA: Wet week across State with many central and southern farms receiving 2.00 to 4.00 in. of rain. Rainfall totals around 1.00 in. were common in north. Air and soil temperatures averaged above normal in the north and below normal in the south.

Fieldwork 2.4 days. Activities: Care of live-stock, routine farm chores, planting of corn and some vegetables, and applying nitrogen to wheat. Pasture feed, short to adequate. Stored feed, mostly adequate. Fieldwork behind schedule. Plowing, 21%. Conditions: Livestock and wheat, fair to good, pasture mostly fair.

ARIZONA: Two weather storms moved across State during week. Moisture amounts over western one-third State varied from under 0.10 to over 0.75 in. Eastern two-thirds amounts varied 0.25 to locally over 1.00 in. Snow level mostly around 5,000 feet, amounts over Mogollon Rim, White Mountains 5 to 10 in. Average temperatures varied 3° below normal to 2° above.

Spring lettuce harvest full swing Yuma, Parker, Poston areas. Lettuce picking Phoenix, Scottsdale, Harquahala Valley, Eloy getting underway. Picking cauliflower active Yuma County. Carrots, green onions, radishes, other mixed vegetable volume heavy Salt River Valley. Immature vegetables for later harvest made normal progress. Potato planting completed, harvest to begin Queen Creek, Tolleson area around first May. Cantaloup, watermelon, honeydew melon planting active. Earlier planted fields had plants emerging satisfactory stands established. Citrus industry slow due to poor market conditions. Valencia oranges, sweet oranges, tangerines, grapefruit, lemons picked on limited scale. Heavy new blooms for 1983-84 crop apparent all varieties Yuma area. Citrus groves good condition. Cotton crop activity mostly limited pre-plant functions. Farmers preparing seedbeds, pre-irrigating. Southeastern growers behind due to wet conditions restricting fieldwork. Yuma County only area where significant planting taking place. Planting there increasing, some early plantings had stands being established. Some weed controls being applied Yuma County. Wheat, barley plantings in wide range crop development stages. Fields southeastern counties had stands established. Central areas had earlier planted fields reaching tillering, heading stages. Pinal County reported minor lodging as result rains, warming trends after rains allowed plants to recover to normal. Earlier planted small grains Yuma County head emergence, flowering. Many later plantings in stem elongation stage. Limited harvesting wheat for hay underway. Alfalfa ready to cut many areas, most growers waiting for appropriate weather conditions. Western, central areas some cutting, resulted in rain damaged hay due to intermittent rains. Crop growth made mostly average progress. Yuma, Cochise Counties preparing seedbeds, pre-irrigating in anticipation planting corn, sorghum. Some corn planted Yuma County. Safflower made normal progress, plants reaching stem elongation stage.

ARKANSAS: The week averaged a little warmer than normal. All stations had rainfall of less than 1.00 in. Highest normal 57°, lowest 49°. Highest mean 58°, lowest 51°. Highest temperature 82°, lowest 29°. All departures from normal ranged from +1 to +5°. Most rainfall 0.95 in., least trace.

Field preparation extensive. Corn and grain sorghum planting well along southwest, begun northeast. Wheat in good condition. Pastures average to above. Cattle in good condition.

CALIFORNIA: Rainfall throughout the State is nearing record levels. Rainfall again was well above normal this past week as Pacific storms

covered the entire State with rain and snow. One storm system left and gave us 14th and 15th as our dry days before another system brought more rain 16th. The front on 16th moved through rather rapidly but the closed low in the wake of the frontal system continued to give showers and thunder-showers over most of the State through 18th. The 19th was our drying out day with warming temperatures and clearing skies.

Fieldwork at standstill. Seed bed preparation hampered. Poor drainage drowning some small grain fields. Yields reduced. Fertilizer, herbicide treatments between storms. San Joaquin wheat yellowing. Early Desert wheat heading out. Alfalfa treated for weevils, aphids. Oats need sunshine. Rice ground too wet for soil preparation activity. Considerable cotton acreage reduction expected Imperial-Riverside. Heavy fungicide applications on all fruit and nut crops susceptible to moisture induced fungus infections. Prunes coming into full bloom, many fruits and nut trees now leafing out. Navel domestic packout holding up despite increasing brown rot and water rot. Rains hampered fieldwork, especially northern half State. Artichoke volume fairly light. Asparagus fields still saturated Delta; harvest full swing Desert. Broccoli, cauliflower harvest light Central Coast with mounting plant losses from soaked fields. Lettuce harvest full swing Palo Verde Valley. Planting lettuce Central Coast delayed by wet fields. Planting, harvesting potatoes Perris-Hemet, Kern Districts. Moderate movement from storage Tulelake-Butte Valley. Strawberry harvest started increase South Coast. Planting market tomatoes slowed by wet fields San Joaquin Valleys. Ranges pastures saturated. Flooding of pastures continued increase. Grass strength continues weak result excess moisture. Supplemental feeding necessary many districts. Feedlots extremely muddy. Planting processing tomatoes farther behind Sacramento, San Joaquin Valleys.

COLORADO: Early in the week temperatures in the 60's were common. On 14th, a new storm moved into the State bringing heavy snow, rain and colder temperatures. Snowfall amounts from 2 to 8 in. were common at lower elevations with up to 2 feet or more in the mountains. The precipitation tapered off by the end of the week, but cloudy skies and cold temperatures in the 20's to 30's continued.

Seeding of small grains behind normal because of recent moisture and wet topsoils. There was only 1.0 day rated as suitable for fieldwork. Topsoil and subsoil moisture rated as adequate to surplus. Ranges and pastures in fair to good condition and will green rapidly with warmer temperatures. Livestock in good condition with 39% of the cows calved and 30% of the ewes lambed. Little winter wheat being pastured.

FLORIDA: Early week was dry with partly cloudy skies and cool temperatures. A storm developed, northern Gulf of Mexico on the 15th and continued to slowly intensify into a major storm system, 16th, 17th. Widely scattered rain, thunderstorms began north, central, 15th, spreading elsewhere through 17th. Rainfall averaged 1.00 to 3.00 in. Cool and dry weather prevailed remainder of period. Temperatures averaged for week 4 to 9° below normal.

Soil moisture variable, mostly excessive. Corn, tobacco planting slow. Land preparation for planting soybeans and peanuts delayed due wet soils. Sugarcane harvest slow, production prospects remain good. Wheat heading central areas, wet conditions causing problems north and west. Peach prospects good. Pasture conditions mostly fair to good and improving in the north and Panhandle, mostly poor to fair central and south. Cattle mostly fair to good condition. Citrus groves wet

all week; however, trees in very good to excellent condition. New growth on all trees. Bloom buds progressing slowly due to cool weather, very few open flowers. All harvest slowed by inclement weather. Cold fronts in early week and midweek brought partly cloudy to cloudy skies, locally heavy showers to vegetable areas. Strong, gusty winds caused some wind burn, other plant damage. Scattered hail reported in southwest area. Harvest, refertilization, other fieldwork active, weather permitting. Spray programs active. Total shipments decreased 18% from previous week. Harvest increased sweet corn, cucumbers, potatoes, radishes and strawberries. Supplies about steady Chinese cabbage. Volume declined for all other crops. Strawberry harvest increasing despite problems with rain, plants loaded with fruit.

GEORGIA: Rainfall 15th to late 17th averaged about 3.00 in. south, 1.50 in. central, and 0.25 to 0.50 in. north. Rather cold 19th and cool 16th to 18th, but otherwise mild. Average temperatures 3 to 5° below normal south but near normal north. Rainfall weekend of 19th-20th averaged 1.00 to 1.50 in. north and near 0.50 in. elsewhere. Near seasonal temperatures.

Soil moisture 21% adequate, 79% surplus. Wet soils delaying all fieldwork, only 2.0 days suitable. Corn 12% planted, last year 40%, average 28%; condition 10% very poor, 26% poor, 48% fair, 13% excellent. Tobacco 4% transplanted, last year 26%, average 10%; condition 27% poor, 41% fair, 27% good; some plants still in beds getting too large. Watermelons 14% planted, last year 40%, average 28%; condition 32% poor, 47% fair, 16% good. Wheat 50% jointed, 8% boot; condition 9% poor, 41% fair, 45% good, some fungus diseases. Rye 5% poor, 43% fair, 46% good. Other small grains 4% poor, 40% fair, 53% good. Peaches 52% blooming, condition 25% fair, 67% good, 5% excellent. Pastures 11% poor, 40% fair, 46% good.

HAWAII: Light showers early part of week, more rainfall needed. Heavy irrigation continuing where available. Reservoir levels low in some areas. Restricted irrigation still observed in Waimea. Leafy vegetables in sufficient supply. Bananas and papayas light production. Sugar and pineapple harvesting increasing.

IDAHO: A moist flow of air off the Pacific brought moderate to heavy amounts of precipitation during the first 3 days of the week. This was followed by a dry period the remainder of the week except in the south where light rain fell on 18th. Temperatures were near to slightly above normal across the State early in the week cooling to slightly below normal late in the week.

Untimely rains limited field activities to areas of light soil last week. Spraying pesticides and preparations for the coming irrigation season continued between rainfalls. Some apricot trees reported to be blooming with peach trees preparing to do the same. Road conditions limited marketing in several areas as snowmelt and rain have left roads muddy and storages inaccessible to trucks. The wet weather increased stress on young livestock. Calving continued over most of the State while the lambing season came to a close in some areas. Feedlots messy. Feed supplies adequate.

ILLINOIS: Temperatures averaged 1 to 7° above normal, warmest early in week. Precipitation moderate ranging from 0.50 to 2.00 in.

Winter wheat condition 23% excellent, 65% good, 10% fair, 2% poor. Tillage for 1983 corn and soybean acres 71% complete, 70% 1982, 68% average. Oats 15% seeded, 0% 1982, 7% average. Pasture supplying 15% livestock roughage requirements, ahead of 1982 and average. Livestock good condition. Soil moisture 18% short, 74% adequate, 8% surplus.

INDIANA: Fieldwork was brisk but halted late in the period because of rain and the heaviest snow of the season. Prior to 18th's rainfall, soils were generally workable and farmers were active tilling fields, spreading fertilizer, hauling manure, sowing oats, grass, and legumes, caring for livestock and usual chores. Weekend precipitation should help recharge soil moisture supplies which were becoming short in some areas.

IOWA: Seasonal temperatures and cloudy with occasional precipitation becoming snow at the weekend. Temperatures averaged near normal west to a few degrees warmer than normal in the eastern two-thirds of State. Precipitation was heaviest from the southwest to north central. Late-week snowfall varied from 1 to 5 in. with greatest amounts in the south central district.

KANSAS: Precipitation averaged 0.50 to 1.00 in. west to little or none east. Snowfall 4 to 7 in. northwest and extreme southwest and 2 to 4 in. remainder of west and north central. Temperatures averaged 35 to 40° west and north central to 41 to 45° east and south central. These were 2 to 4° above normal east to 6° below normal southwest and 1 to 3° below normal elsewhere.

Wheat condition good to excellent. Barley planted 30%, last year 35%, average 30%. Oats planted 40%, last year 30%, average 35%. Light wind damage. Light infestations wheat streak mosaic, soil-borne mosaic, fungus and greenbugs. Fertilizer applied some areas. Days suitable for fieldwork: 3.0. Calving approaching half-way mark. Lambing mostly complete.

KENTUCKY: Skies were fair early, but a series of low pressure systems brought clouds and rains latter half of period. Temperatures cooled gradually during period, but still averaged about 5° above normal. Precipitation 17th through 20th averaged 0.25 in. over east, up to 1.00 in. over far western counties.

Precipitation welcome as topsoil dry in some areas. Preparing and seeding tobacco beds primary activity. Fertilizing fall seeded grain and some preparation of land for row crops underway. Some pastures have greened.

LOUISIANA: Rainfall averages 0.25 to 1.00 in. Greatest total 1.46 in. Temperatures ranged normal to 3° below normal except in west central where temperatures were 1° above normal. High 79° and low 36°.

Soil moisture adequate. Days suitable for fieldwork 5.4. Spring plowing 32%, 37% 1982, 51% 1981. Corn planted 26%, 14% 1982, 16% average; poor to fair condition. Wheat headed 3%, 4% 1982, condition fair. Topdressing continues active. Sugarcane condition fair to good. Growers continue offbarring, shaving and applying herbicides. Vegetables rated fair. Strawberry harvest at peak. Pastures and livestock rated fair. Supplemental feeding continues.

MARYLAND AND DELAWARE: Warmer than normal with near normal to much above normal rainfall. Temperatures averaged 1 to 4° above normal in the three western counties of Maryland and mostly 4 to 6° above normal elsewhere. Low temperatures were in mid 20's to low 30's west of the mountains low-mid 30's in the rest of the two States. Precipitation was light in western Maryland with totals under 0.11 in. and below the normal 0.84 in. received during the week. The remainder of the two State area received near normal to much above normal rainfall with some areas receiving as much as 2.67 in. The 19th was cloudy with scattered showers. High temperatures were in the upper 50's to mid 60's and low temperatures were in the mid 40's to low 50's. The 20th was cooler and sunny with highs in the upper 50's to low 60's and lows in the low to mid 40's. Maximum temperatures were

in the high 50's to mid 60's in western Maryland and in the high 60's to mid 70's elsewhere.

MICHIGAN: Even though above normal temperatures continued over State, there was some moderation this past week. Average temperatures were 4 to 10° above normal. Precipitation until 20th was light over the southern part of the Lower Peninsula and moderate over the rest of the State. Late in the week a winter storm moved across the State. Heavy snowfall and high winds caused drifting and hazardous driving conditions.

MINNESOTA: Temperatures averaged 2 to 6° above for the State. Extremes were 54° at Winona and 10° at Duluth. Precipitation averaged near normal to 0.30 in. below normal for the northern third of the State and for the west central and east central regions. Elsewhere precipitation averaged 0.40 to 1.00 in. above normal. Precipitation totals averaged 0.03 to 0.42 in. for the northern third of the State and for the west central and east central regions; totals were 0.69 to 1.45 in. elsewhere. Greatest total was 2.17 in. at Waseca. Snowfall ranged from 12.8 in. in the extreme south to a trace in the north. Snow depths at weeks end were 1.50 to 8.00 in. in the south and east central regions, trace to 4.00 in. in the northeast, and trace or less elsewhere.

MISSISSIPPI: Temperatures slightly below normal. Extremes 34 and 79°. Rain at midweek and at end of week but no heavy amounts reported. Heaviest daily rainfall 1.02 in. Tornado at Leakesville.

Soil moisture surplus to adequate. Fieldwork 3.0 days suitable, 3.9 last year, 3.3 average. Plowing for spring planting 20% completed, 33% last year, 35% average. Corn 9% planted, 17% last year. Watermelons 4% planted. Winter wheat 17% jointing, 28% last year; condition fair to good. Pasture condition fair. Livestock condition fair to good. Hay and roughage supplies adequate. Feed grain supplies adequate to short.

MISSOURI: Statewide temperatures averaged 5° above normal, with the warmest readings in the southwest. Rain, which occurred at the end of the week, averaged between 0.25 to 0.50 in. East central areas received the highest amounts.

Mild winter weather with unseasonably warm temperatures have resulted in early pasture growth. Wheat showing normal growth progress.

MONTANA: Week began very mild with maximum temperatures in 50's and 60's. By the end of week maximum temperatures generally below freezing in all parts of State. Statewide temperatures were 2 to 5° above normal. Highest 63° at Helena, lowest -2° at Wisdom. All areas received some precipitation. Area east of Divide had heaviest amounts, 0.10 to 0.50 in. with mountains and east slopes of Foothills receiving 1.00 to 3.00 in.

Winter wheat remains fair to good and greening. Topsoil moisture shortages relieved some eastern portions. Colder weather stopping field and tillage operations. Calving and lambing slightly more difficult, about 45% complete.

NEBRASKA: Rain and snow widespread and nearly daily. Amounts totaled less than 0.50 in. in west to well over 1.00 in. east. Temperatures near normal in east to 5° below normal in west.

NEVADA: A series of Pacific storm systems swept through State during week bringing periods of precipitation and extensive cloud cover. Weekly rainfall totals less than 0.50 in. north, less south. Snowfall generally confined to elevations above 5000 feet. Snowfalls varied from 2 in. valleys to 4 feet in Sierras. Weekly temperatures averaged near seasonal normals. Extremes: 14 and 74°.

Fieldwork brought to near standstill by inclement weather. Calving and lambing continuing

under less than ideal weather conditions. Movement potatoes to market sluggish.

NEW ENGLAND: Temperatures averaged 5 to 9° above normal throughout the entire region. High was 63° on 15th and 16th in parts of Connecticut and Rhode Island. Low was 13° late 14th in Vermont. Precipitation fell mostly 15th, 18th and 19th. Western Maine and interior southern New England got the most. Northern Maine received 2 in. of snow early in the week.

NEW JERSEY: Temperatures averaged 5 to 7° above normal. Extremes 27° at Belvidere Bridge on the 15th and 72° at Pomona on the 16th. Weekly rainfall averaged 2.11 in. north, 1.52 in. central and 2.01 in. south. The heaviest 24-hour total 4.00 in. at Charlotteburg on the 18th to 19th. Estimated soil moisture, in percent of field capacity, averaged 98% north, 97% central and 97% south. Four in. soil temperatures today averaged 44° north, 49° central and 48° south.

NEW MEXICO: Temperatures near or slightly below normal - 9° in northern mountains low, 78° in southeastern and northeastern Plains high. Rainfall over most areas. Heaviest in northern half of State (1.40 in.) and southern mountains.

Soil moisture adequate most of State. Short southeastern Plains. Wheat, barley, alfalfa in good condition, 50% being grazed. Field preparation continues for cotton, potatoes, sugarbeets. Mesilla Valley peppers being planted. Lettuce, onions good condition. Range and livestock fair to good condition. Calving, lambing continue, little death loss.

NEW YORK: Average temperatures ranged from mid 30's to mid 40's. Late week precipitation in Hudson Valley and Catskills from 2.00 to 3.25 in., elsewhere mostly 0.25 to 0.50 in.

NORTH CAROLINA: Temperatures 3 to 4° above normal. Precipitation heavy in Piedmont and coastal areas.

Soil moisture: 28% adequate and 72% surplus. Days suitable for fieldwork: 2.9. Conditions: Wheat, oats, barley and rye fair to mostly good. Tobacco plant beds: 26% fair and 74% good. Irish potatoes: 33% fair and 67% good. Fuel supplies: Adequate. Hay and roughage: 5% short, 90% adequate and 5% surplus. Feed grains: 2% short, 85% adequate and 13% surplus. Pasture conditions: 2% poor, 21% fair, 75% good, and 2% excellent. Major farm activities: Preparing and seeding tobacco beds, machine maintenance, seeding spring Irish potatoes, topdressing small grains, and pruning apple trees.

NORTH DAKOTA: Temperatures were above normal over the entire State. Precipitation was below normal except in the northwest. Temperatures ranged from -5° northwest to +48° west central. Snow cover at end of week was a trace or less except in the northwest and north central areas.

Wet soil still preventing any fieldwork. Extended period of warm weather needed. Farmers busy procuring seeds and chemicals as 1983 cropping plans are finalized.

OHIO: Temperatures averaged above seasonal levels. Readings as much as 7° above normal east. Readings west averaged 3 to 5° warmer than usual. Afternoon readings before midweek into 60's. A few 70° readings southeast. Morning lows into 20's late in period. Precipitation widespread, moderate to heavy, 1.00 in. plus fell over northeast, elsewhere readings averaged 0.50 to 0.75 in. Rain fell at gentle pace. Surfaces should have been able to absorb moisture -- minimizing runoff. Winterlike weather arrived at week's end. Four in. bare soil temperatures into upper 30's. Adequate to abundant moisture, expected snow will keep soil temperatures from dropping to freezing mark or climbing into 40's once sunshine returns.

Above normal temperatures early in week allowed outdoor farm activities to continue: Applying fertilizer to corn ground, pruning grape vines and fruit trees, seeding and setting vegetables, limited oat seeding. Rains and falling temperatures at end of week forced farmers inside where machinery preparation was underway, until late week, weather was excellent for calving and cattle were beginning to enjoy the green grass.

OKLAHOMA: Temperatures averaged from 3° below normal Panhandle to 6° above normal east central. Precipitation ranged from nearly 0.20 in. central to nearly 0.80 in. Panhandle and north central.

Wheat and other small grains made good growth and development during early part of week. Cold temperatures and some snow retarded development latter part of week. Moisture received in drier areas of State may rejuvenate small grain development. Wheat improved somewhat but remained in generally good condition. Cattle were in good to fair condition.

OREGON: Rain continued through 15th bringing up to 3.00 in. precipitation along coast; amounts 1.00 to 2.00 in. to inland valleys; less than 0.50 in. eastward. Some brief respite from the rain occurred late in the week in all areas except the coast. Statewide temperatures were 4° above normal.

Soil moisture supply adequate to surplus. Winter wheat condition fair to good in the west; good in east. Fertilizer and sprays being applied as conditions allow. Spring seeding continuing where possible. Pruning about complete. Delayed dormant spraying on pears continuing. Filberts leafing out. Early peach varieties blooming. Willamette Valley cherry orchards in pre-popcorn bloom stage; most fruit areas about 1 to 2 weeks ahead of normal. Norgold potato planting continuing in Hermiston-Boardman area with Russet plantings expected to be underway in about 7 to 10 days. Livestock generally in good shape. Pastures showing growth due to warmer than normal temperatures.

PENNSYLVANIA: Last week continued the warmer than normal trend. The average temperature was 43° or 6° above normal. Temperatures were spread evenly throughout the week. Extremes were 66 and 18°. The average precipitation was 0.83 in., only 0.02 in. above normal. The rain fell at the end of the week.

PUERTO RICO: Island average rainfall 1.92 or 1.41 in. above normal. Highest weekly total 8.63 in. Highest 24-hour total 5.12 in. Temperatures averaged about 82 to 81° on Coasts and 75 to 73° Interior Divisions. Mean station temperatures ranged from 83.6 to 67.1°. Extremes 93 and 44°.

SOUTH CAROLINA: Temperatures averaged several degrees warmer than usual, but included earlier below normal readings. Rainfall ranged from near normal in northwest to excess of 2.00 in. over northeast, causing worst flooding there in 20 years.

Most farmers considerably behind schedule, preparing land for planting, awaiting weather break. Plants in tobacco beds getting large, but hoping to begin transplanting in week or two. Corn planting behind schedule. South coast tomato and vegetable growers threatened by rains nearly drowning early plantings, looking better now. Planting held back, but with plastic down rapid progress should take place with drier weather.

SOUTH DAKOTA: Temperatures from normal to 6° above. Extremes: 12 and 65°. Precipitation ranged from a trace in northwest to 1.34 in. southeast. Snow cover 2 to 5 in. Black Hills, southern third and extreme east.

TENNESSEE: The week began with a cold front approaching from the northwest. The front moved southward through the State 15th and 16th. On

17th, a low pressure system formed in the Gulf of Mexico and moved northeastward along the east side of the Appalachian. By 20th, a new low pressure system moving out of Texas had moved into western areas. The first part of the week was warm with high temperatures in the 70's through 16th. By week's end, highs had cooled into the 60's. The warmest temperature was 78° at Memphis on the 14th and Nashville on the 15th. Lows were mainly in the 40's and 50's. The coldest reading of the week was 31° at Bristol on the 14th. Precipitation - even though a cold front moved through the State, precipitation was light. Light rain fell in west and mid-State sections 17th, Statewide 18th and in the middle and east on 19th. Rainfall was less than 0.30 of an inch. Rain spread across the State on 20th with rainfall amounts of 0.25 to 0.50 in.

TEXAS: Upper level disturbance triggered thunderstorms Panhandle, West Texas. High pressure dominated State 17th, 18th. Another system brought snow Panhandle, thunderstorms during weekend. Temperatures near normal East Texas, Valley, below normal State. Temperatures 6° below normal High, Low Plains. Precipitation near normal East Texas, Trans-Pecos region, above normal State. Rainfall South Central Texas 1.00 in. above normal.

Crops: Scattered showers, temperatures experienced by State. Some land preparation, planting accomplished early week, interrupted by rain. High Plains hit with high winds, snow bringing all activity to halt. Sorghum planting proceeded slowly. Land preparation North Texas, High Plains stalled by rain, snow. Planting Rio Grande Valley, South Texas interrupted by showers. Corn planting met delays. Planting nearly complete Rio Grande Valley, South Texas. Cotton planting progressed slowly. Small grains continued to improve growth, some fields in North Texas, Plains slowed by cold temperatures, freezing rain. Greenbug activity reduced by spraying, Blacklands, Cross-Timbers. East, mildew problems persistent. Wheat condition currently 82% of normal, 78 a year ago. By week's end, 15% excellent; 51% good; 31% fair; 3% poor. Cotton planted 4%, 3% 1982, 6% average. Rice planted 0%, 5% 1982, 9% average. Sorghum planted 32%, 29% 1982, 32% average. Corn planted 32%, 32% 1982, 23% average.

Commercial vegetables: Rio Grande Valley, harvest of cabbage, carrots, lettuce continued. Harvest of spring onions underway. Watermelons progressing well. Harvest of grapefruit slow, harvest of Valencia oranges steady. San Antonio-Winter Garden area, harvest of carrots, lettuce active. Rain showers briefly halted activities. Spinach harvest active. East Texas, rain showers slowed activity, watermelon planting, tomato transplanting continued. Laredo, onions continue to progress. Harvest slightly behind schedule. Trans-Pecos region, onion transplanting nearly complete. Earlier seeded fields recovering from wind damage. Peach trees continue to bloom. Some trees hurt by near freezing temperatures. Pecan trees nearly in bud stage. Some trees Central, South Texas in bud break stage, few Rio Grande Valley leafing out.

Range and livestock: Grasses, small grains continued to progress. Overall range, pasture condition showed improvement. Small grains providing good grazing. Supplemental feeding continued Plains, portions of North Texas. Livestock condition good to excellent.

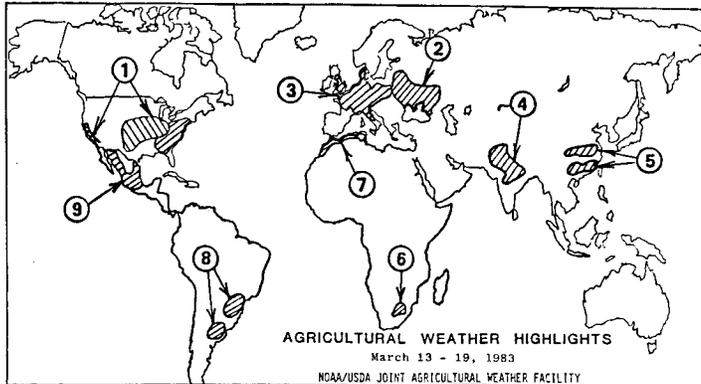
UTAH: Recurring periods of rain and snow reported most areas of State. Accumulated amounts moisture generally moderate to heavy. Average temperatures again above normal ranging from 1° below normal to 9° above.

Colder temperatures caused some concern for newborn animals and recently sheared sheep on western desert. Land preparation in progress for onions

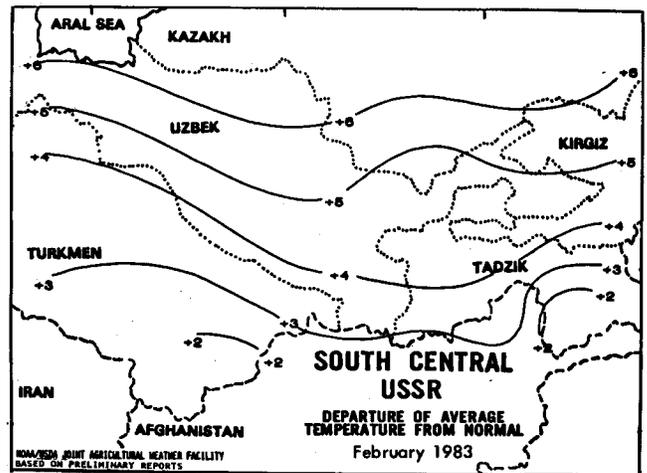
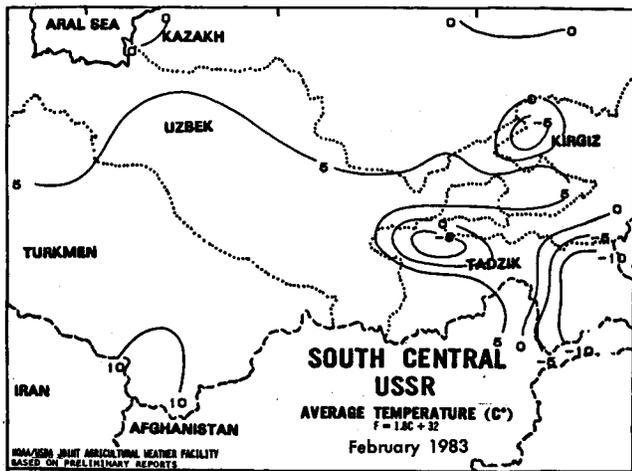
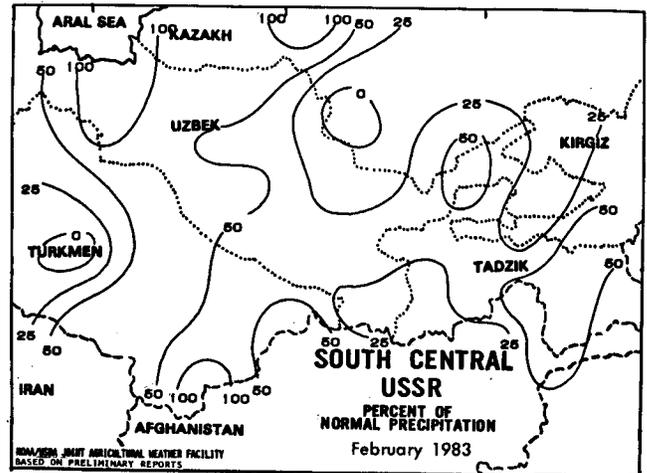
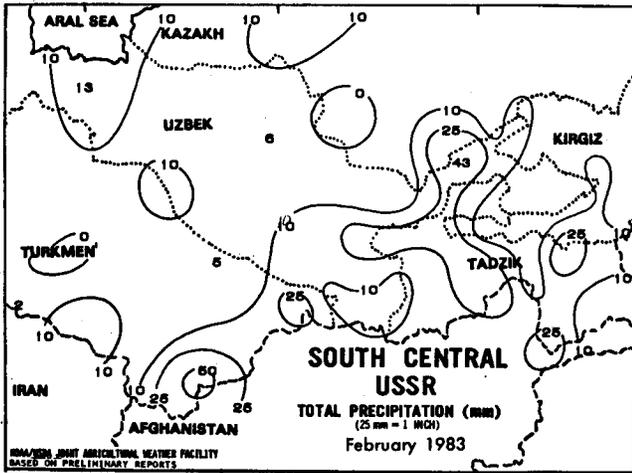
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International Weather and Crop Summary

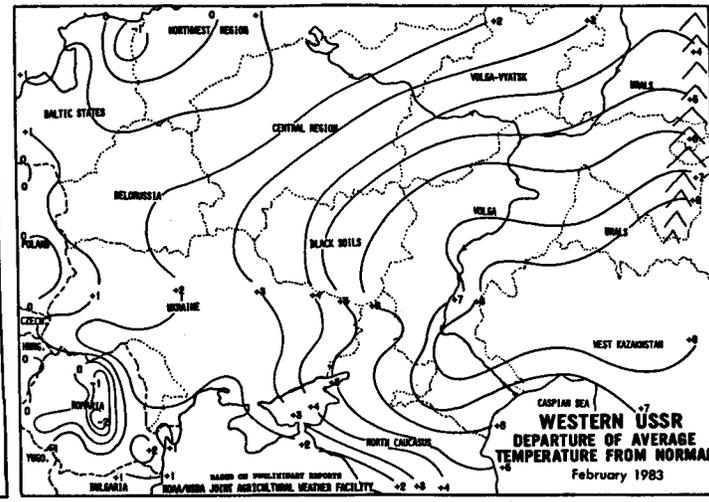
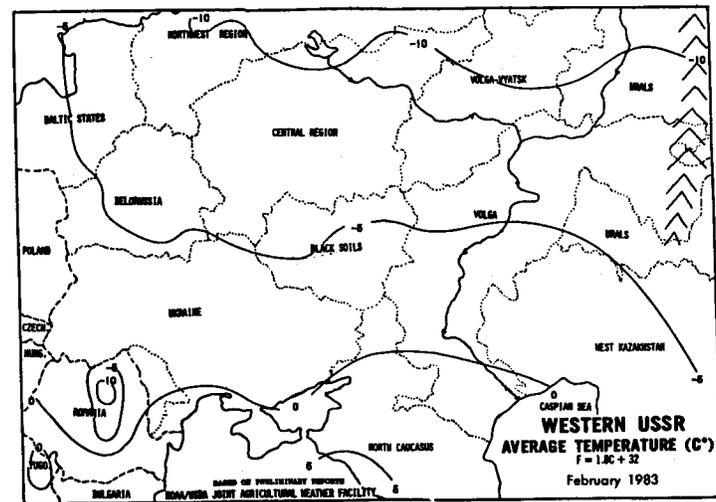
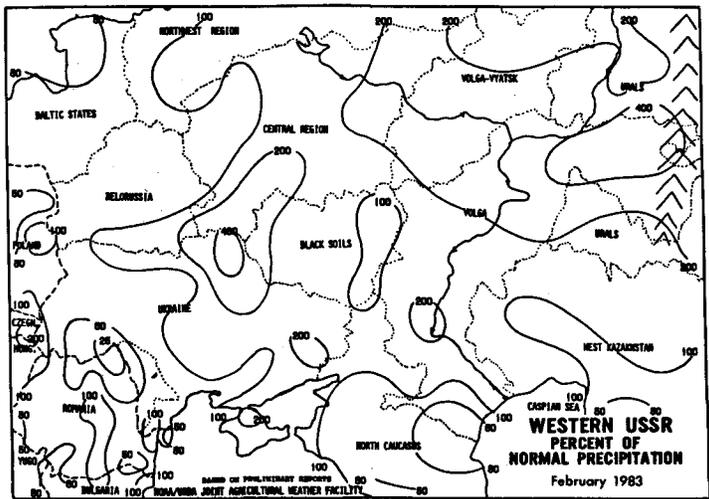
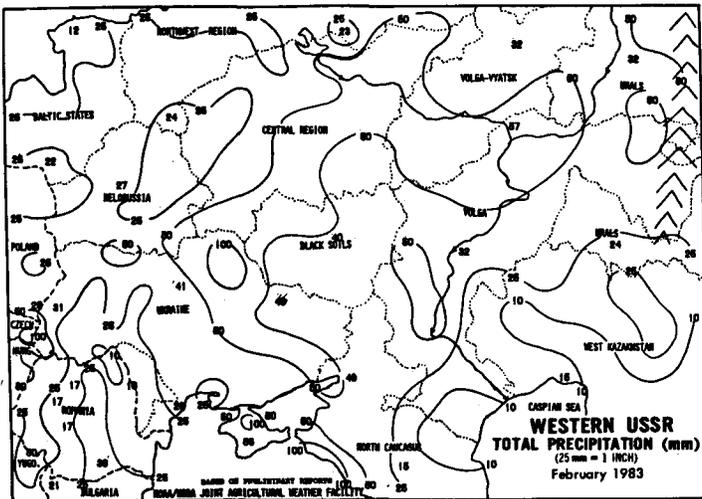
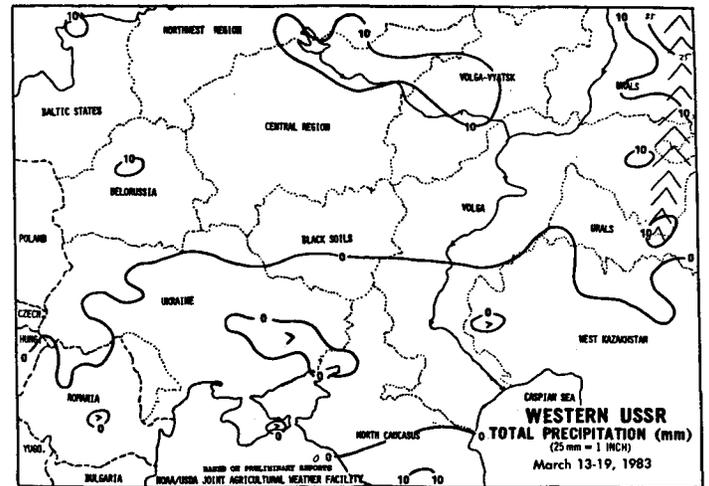
March 13 to 19



1. UNITED STATES ... Persistent rain over most of the Southeast and California further delays fieldwork. A cold snap with scattered snow slows wheat development in the Plains and Corn Belt, but additional moisture will aid growth later.
2. WESTERN USSR ... Generally light precipitation covers northern grains, and dry weather covers the major producing areas in the south. Winter grains remain dormant.
3. EUROPE ... Showers favor early spring winter grain growth in most areas except the southeast and Spain which remain dry.
4. SOUTH ASIA ... Generally dry weather continues to benefit grain maturation and winter grain harvest.
5. EASTERN ASIA ... Heavy rain falls again in southern China where early rice is being planted. Mostly dry weather covers North China Plain as wheat breaks dormancy in south.
6. SOUTH AFRICA ... Mostly dry weather aids harvest, but severe moisture deficiency in the Maize Triangle will hamper wheat sowing unless planting rains come soon.
7. NORTHWESTERN AFRICA ... Showers benefit winter grains in the late vegetative stage in eastern Algeria and Tunisia. Unfavorable dryness continues in Morocco and western Algeria.
8. SOUTH AMERICA ... Wet weather with locally heavy rain interferes with cotton harvest in northern Argentina and delays soybean harvest in Brazil. Preseason showers in Argentina benefit southern wheat.
9. MEXICO ... Mostly sunny weather favors fieldwork, but more rain is needed for increasing soil moisture and irrigation supplies.



WESTERN USSR...Light precipitation covered most northern winter grains, while the major grain-producing areas of the Ukraine, North Caucasus, and southern Volga Valley were generally dry. In February, above-normal precipitation covered many winter grains except those in the Baltic States, Belorussia, the western Ukraine, and the southern North Caucasus. Most of the precipitation (rain in the south and snow in the north) fell during a warm spell in early February. As a consequence, topsoil moisture improved in the south while snow cover increased over winter rye areas in the northeast. Seasonably cold weather returned to most areas by the end of February. Recently, above-normal temperatures covered most of the region, but temperatures were not warm enough to allow plant growth.



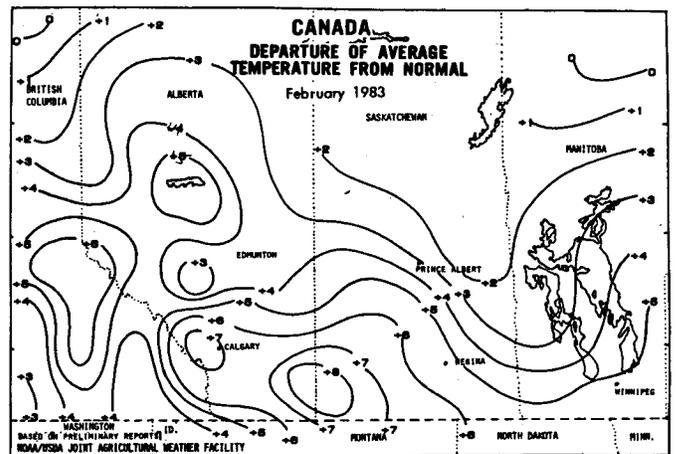
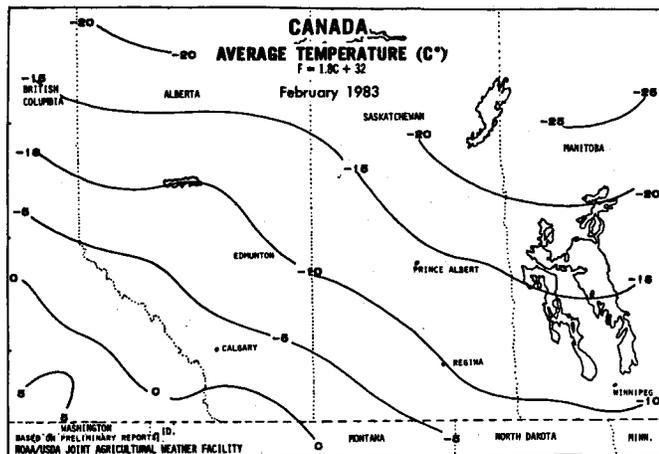
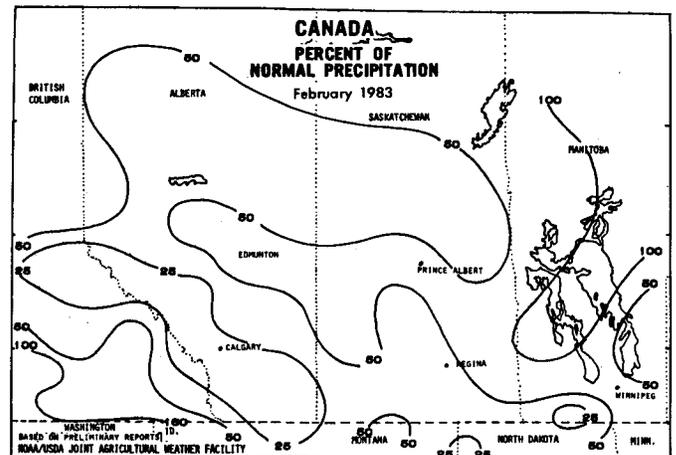
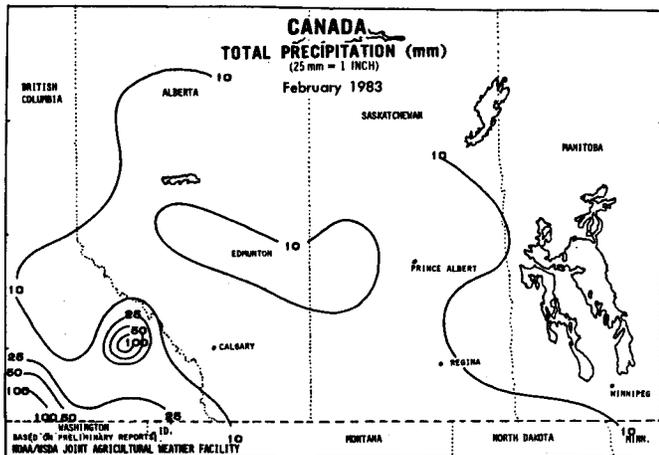
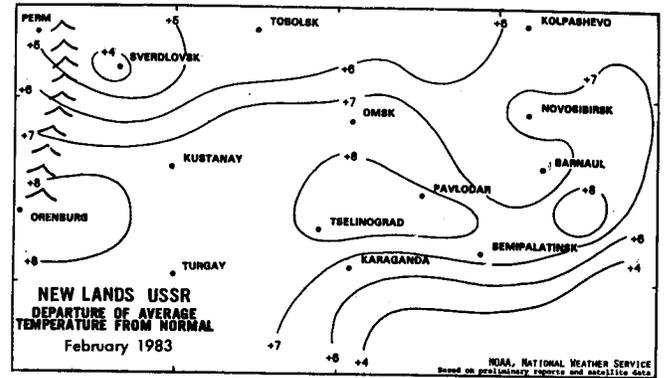
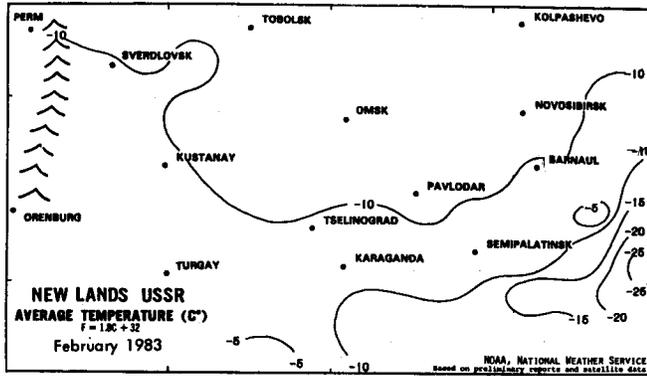
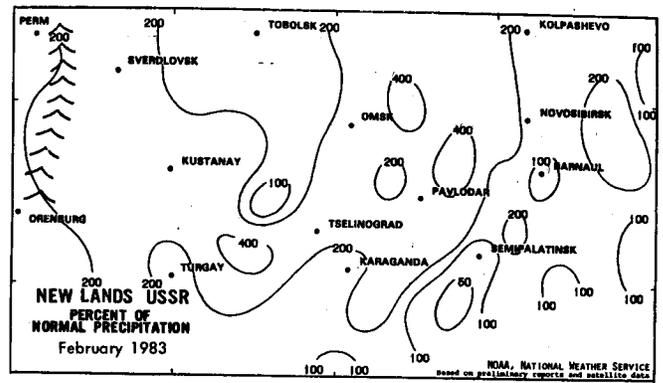
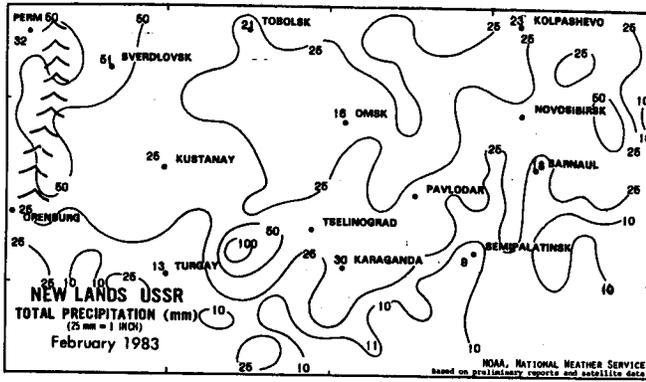
State Summaries (continued from p. 12)

and hardy vegetables for fresh market. Turkey placements continue.

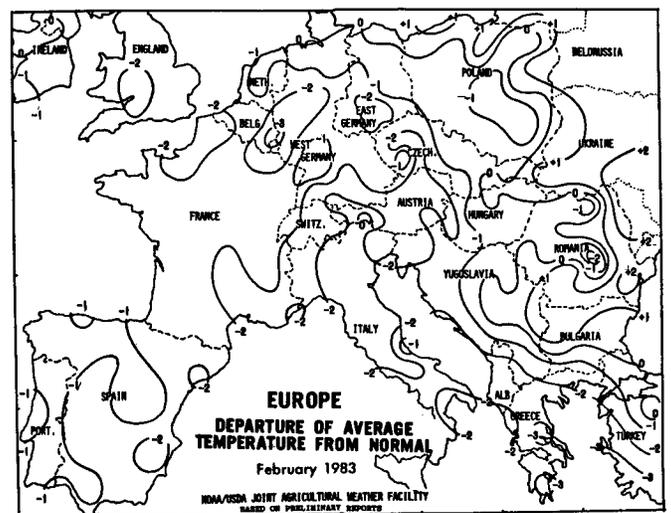
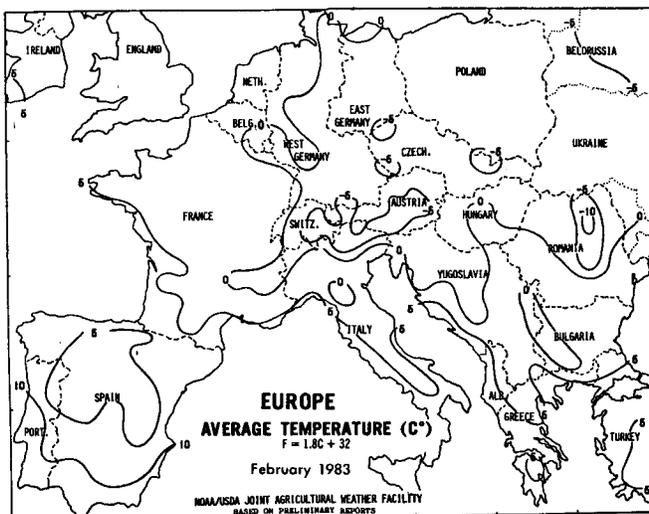
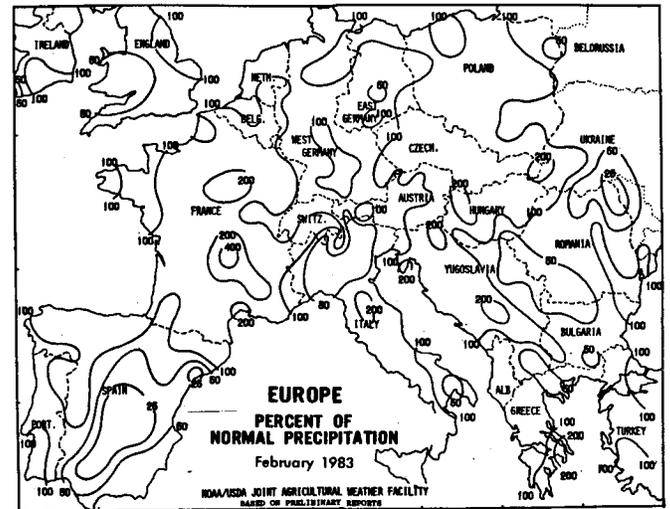
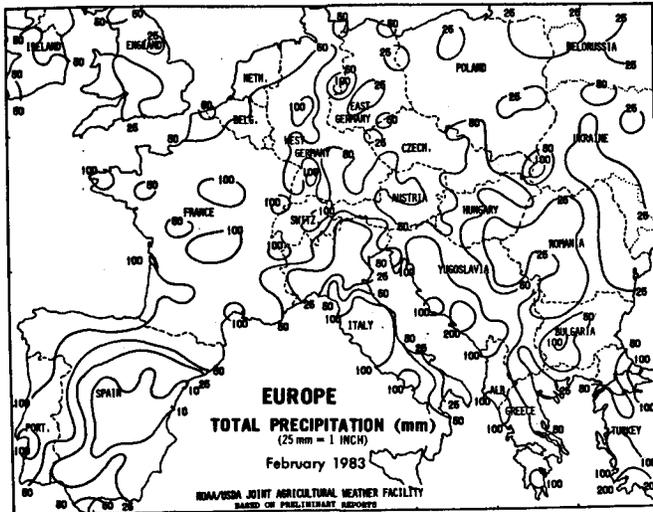
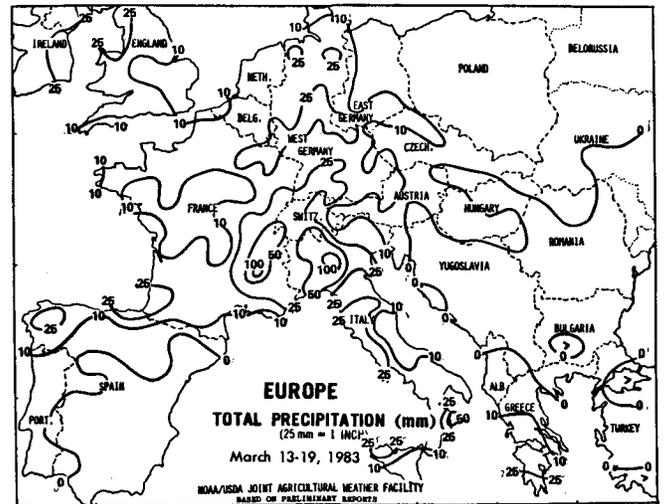
VIRGINIA: A ridge of high pressure maintained generally fair, dry weather until late in the period when a large low spread rain northward across the State. Rainfall averaged about 1.00 in. with the least in the southwest and most in the western division where Roanoke had 2.90 in. Temperatures averaged slightly above normal with the high 78° at Newport News and the low 22° at Dulles Airport.

Early and midweek weather allowed farmers 3.0 days suitable for fieldwork with topsoil moisture reaching 4% short, 62% adequate and 34% surplus. The major activities were fertilizer and lime applications, land preparation for spring planting and seeding pastures and hay fields. Wheat, barley and oats all rated in excellent condition. Some farmers applying pesticides. Pastures, alfalfa and peaches in excellent condition. First bloom in western and northwestern areas expected

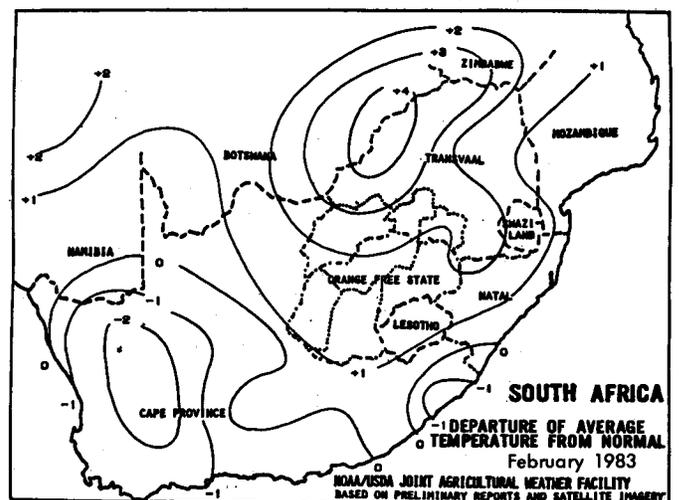
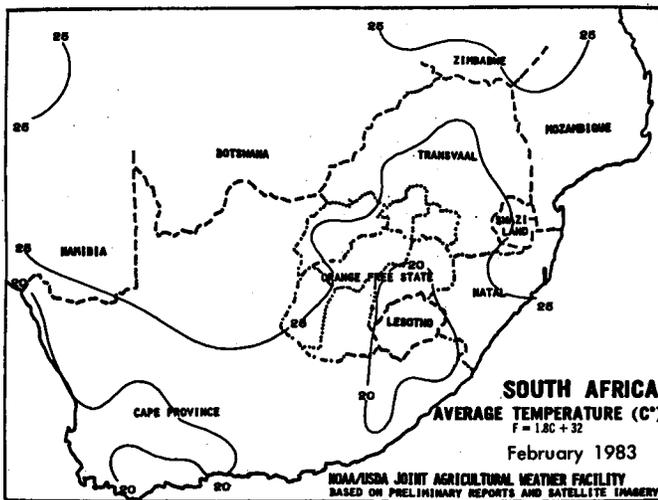
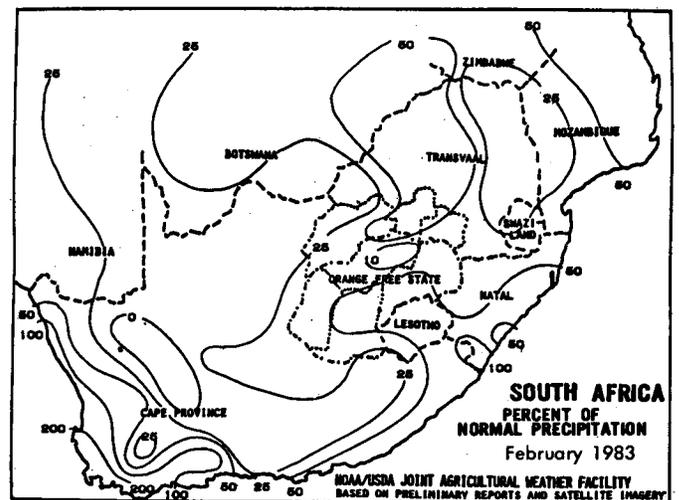
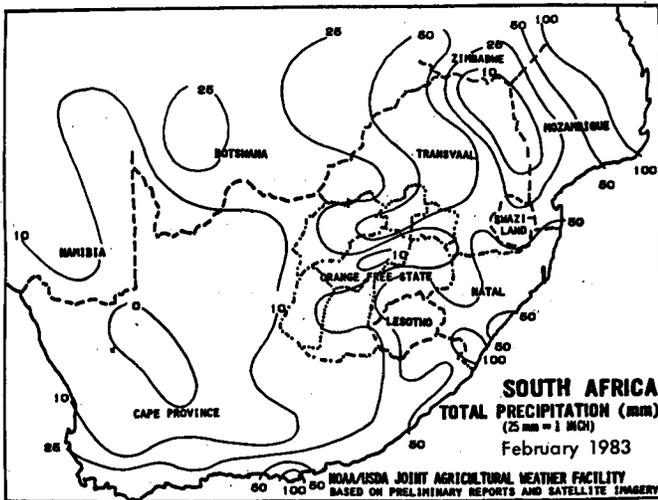
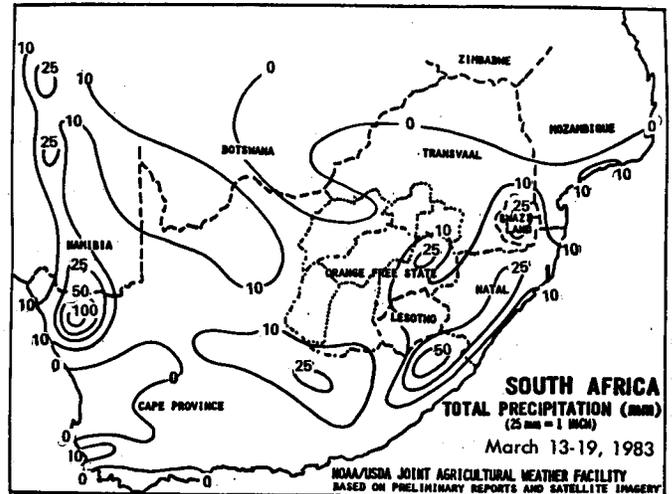
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EUROPE... Showers maintained favorable moisture conditions for winter grains over most of northern and parts of western Europe. In Spain, light showers during mid-February over winter grains brought limited relief from prolonged dryness. However, dry weather, immediately following and continuing to the present, created highly unfavorable growing conditions for winter grains, particularly in southern producing areas. Elsewhere, wet weather continued to improve soil moisture in Italy, while dry weather over southeastern Europe reversed February's above-normal pattern in some areas. February's temperatures on some days were well below freezing, although temperatures this past week favored growth in many areas. Snow cover in the north reduced the threat of winterkill, but the cold weather pushed as far south as the Mediterranean Sea, damaging almonds and citrus in Spain.



SOUTH AFRICA... Mostly dry weather covered the Maize Triangle, aiding the harvest of the drought-stricken corn crop. Substantial rains fell over Natal and adjacent areas in the east. Corn yield potential was cut drastically following another month of well-below average rainfall during February. Above-average monthly temperatures further aggravated the depressed agricultural situation. With the corn growing season completed, the focus of attention now concerns moisture supplies for the upcoming wheat season. The severe moisture deficiency in the Maize Triangle will hamper wheat sowing unless timely planting rains fall. Light showers fell over wheat areas in the Cape Province during the week, but February's rainfall was above average, providing optimism for about 25 percent of South Africa's potential wheat crop.



State Summaries (continued from p. 14)

in 2 weeks. Tobacco beds are about 66% seeded and potato farmers had 3 good days for planting during the week. Livestock care active and animals remain in good to excellent condition. Calving and lambing continues with low death losses reported.

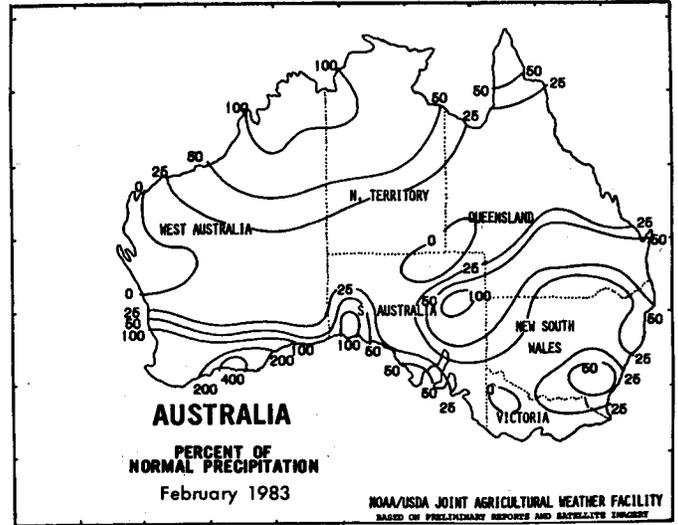
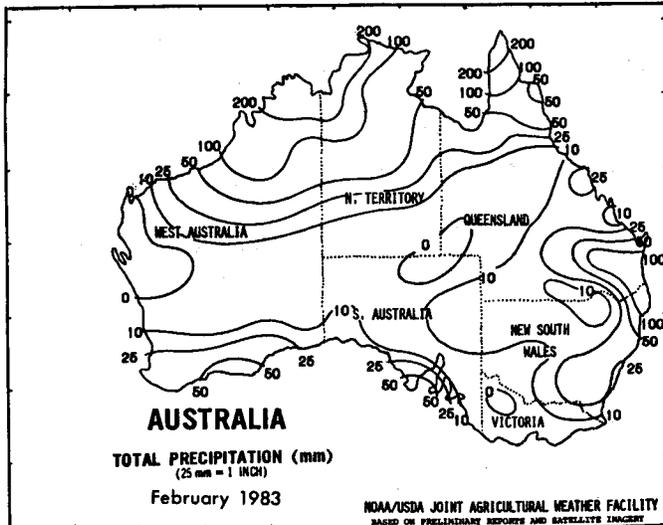
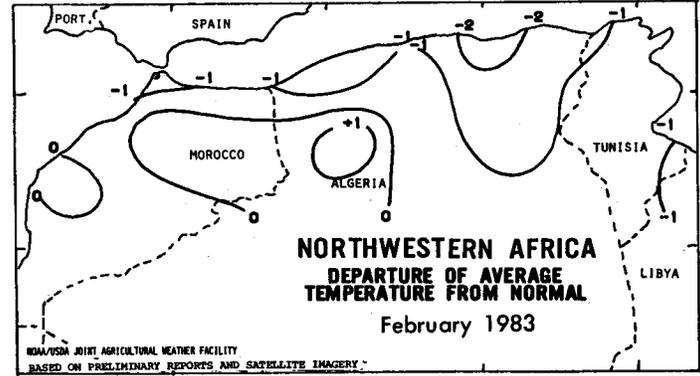
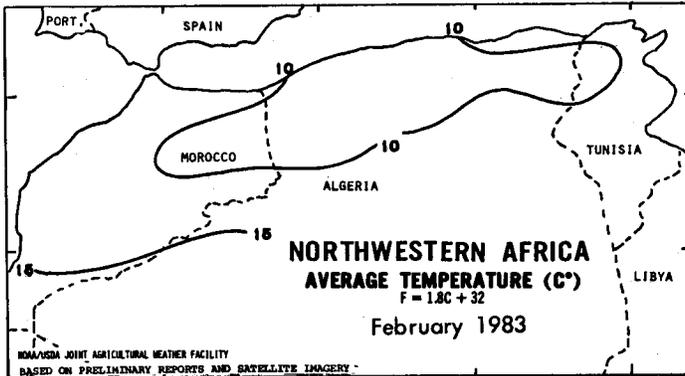
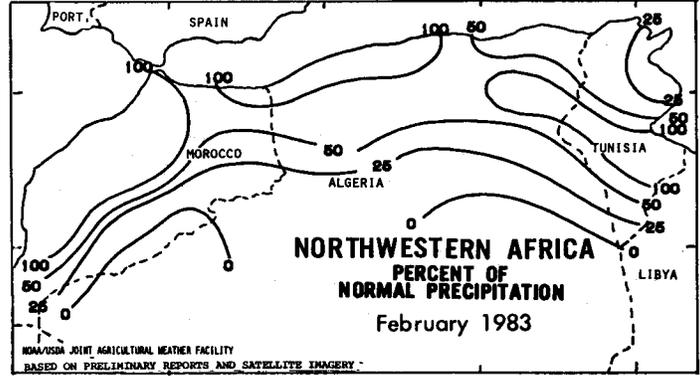
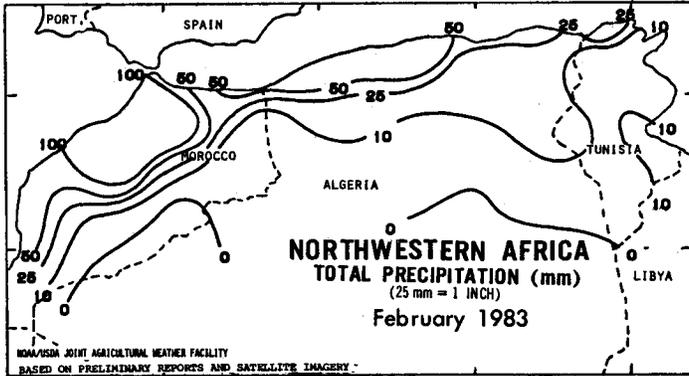
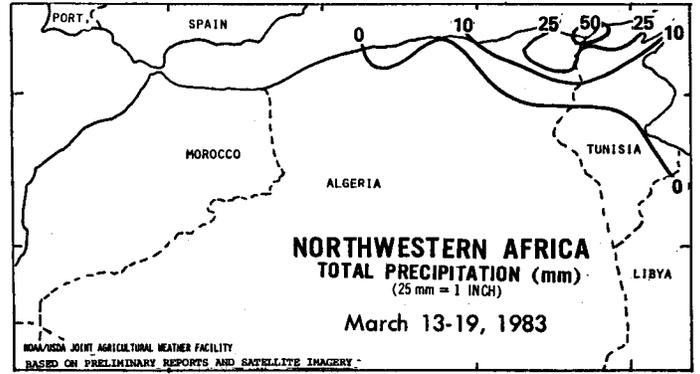
WASHINGTON: Low pressure and associated fronts brought mild and moist marine air to the State during the first three days of the period. Nearly all reportable precipitation fell during this time. A strong high pressure system developed

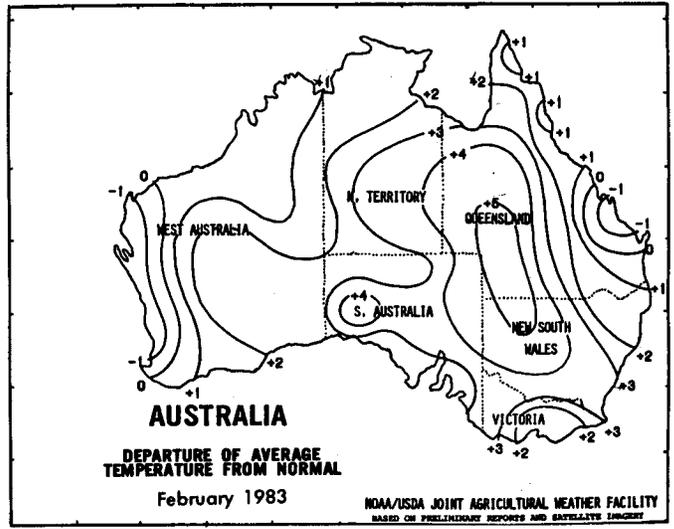
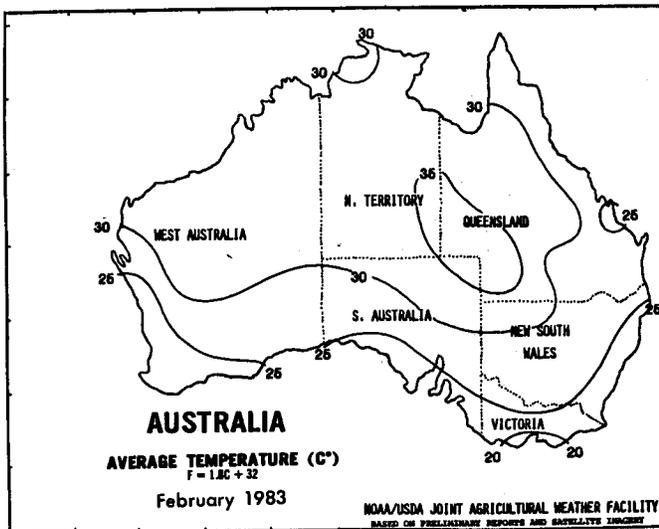
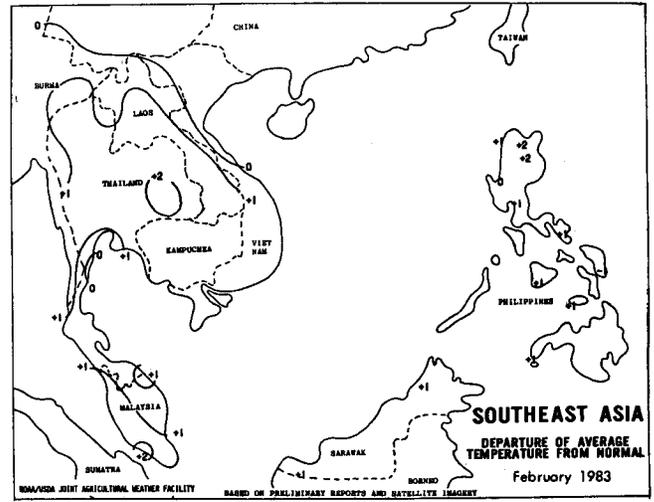
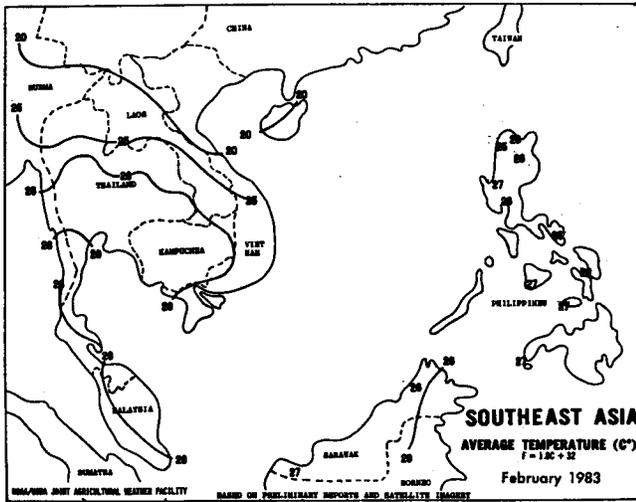
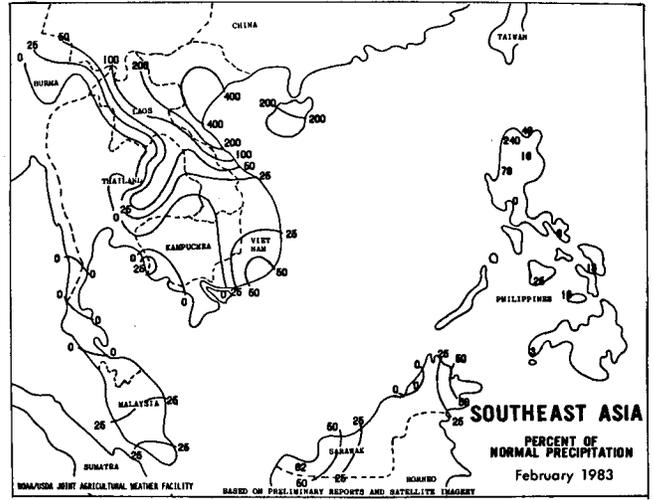
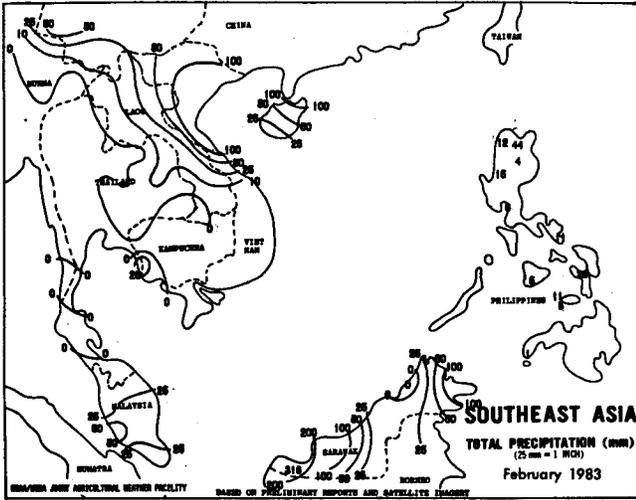
over western Canada and the Northwest States by midweek and forced all rain producing systems into Oregon and California. The second half of the week was dry with warm days and cool, crisp nights as a result.

West: Harvest of forced rhubarb and daffodils continues. Pastures growing. Fertilizing and working fields as weather permits. Limited planting of vegetables. Some cattle going out to pasture.

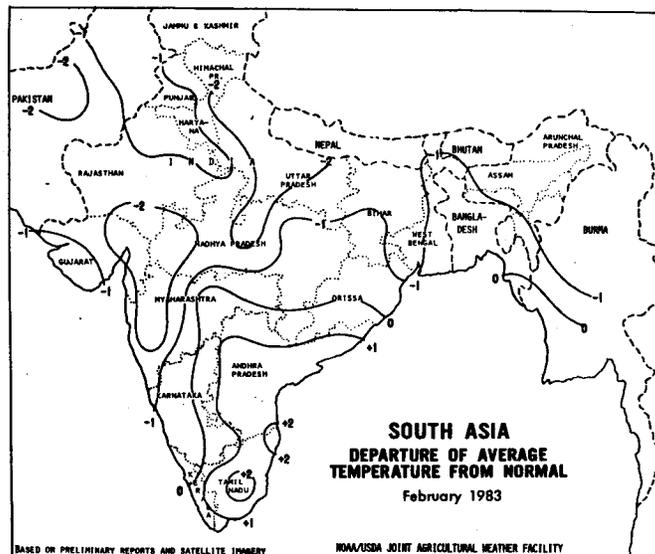
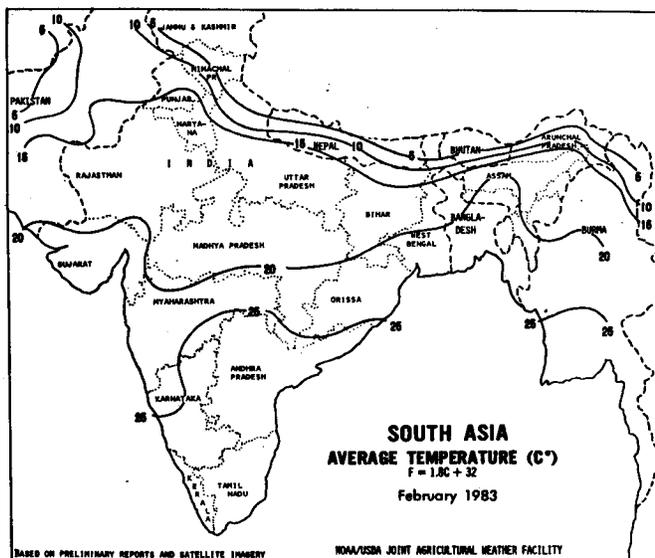
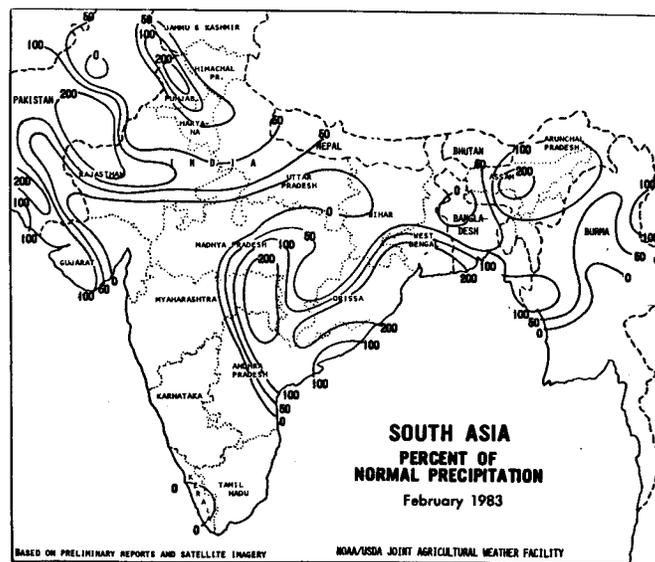
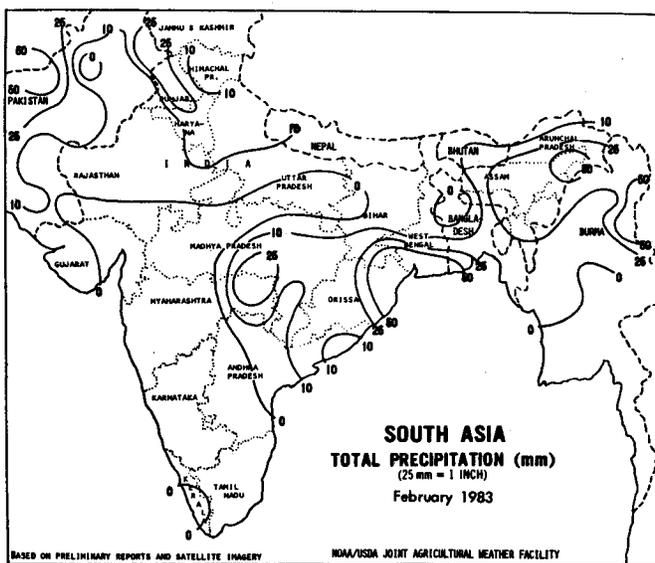
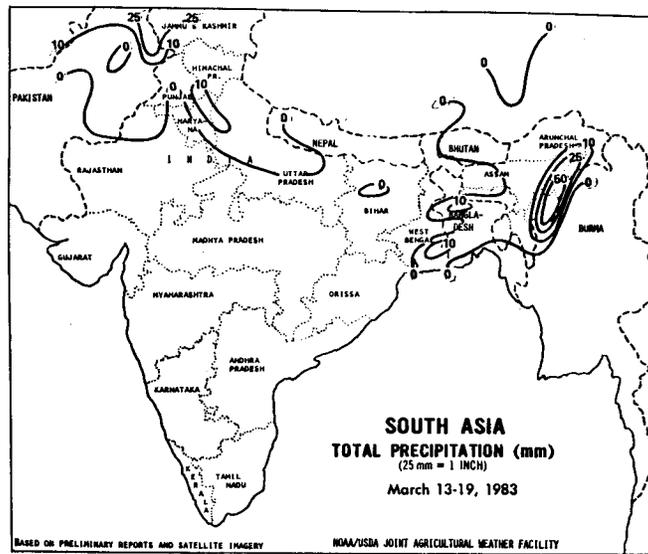
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NORTHWESTERN AFRICA... Showers benefited winter grains in eastern Algeria and Tunisia, reversing February's below-normal precipitation pattern. In contrast, dry weather covered winter grains in Morocco and western Algeria. Early February rains in Morocco and western Algeria were well above normal, benefiting wheat in the vegetative stage. However, dry weather returned in late February and has continued to the present. Winter grains are normally in the late vegetative stage and are nearing the moisture-sensitive heading stage in most areas. Widespread showers will be needed during the next several weeks to maintain favorable yield prospects.

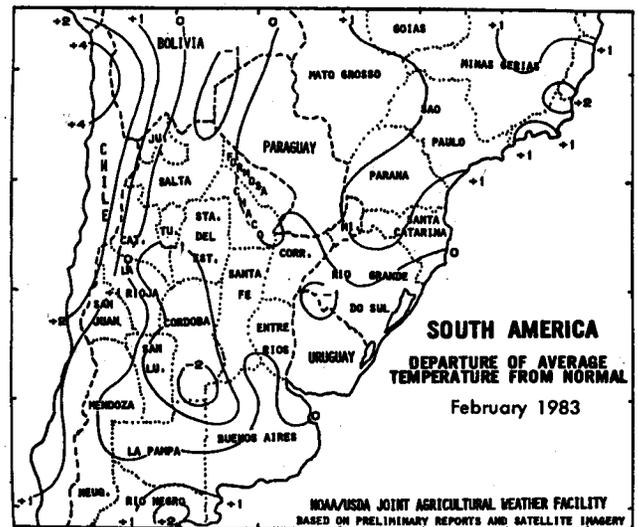
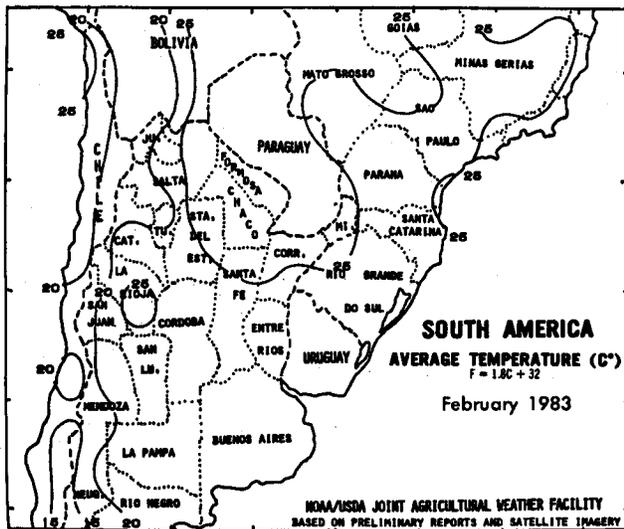
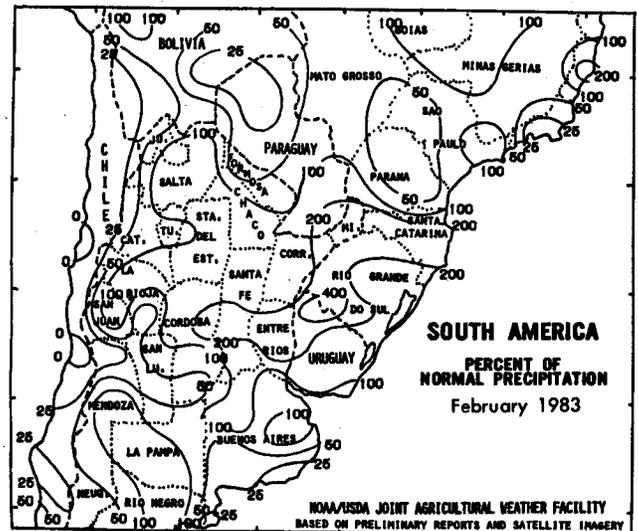
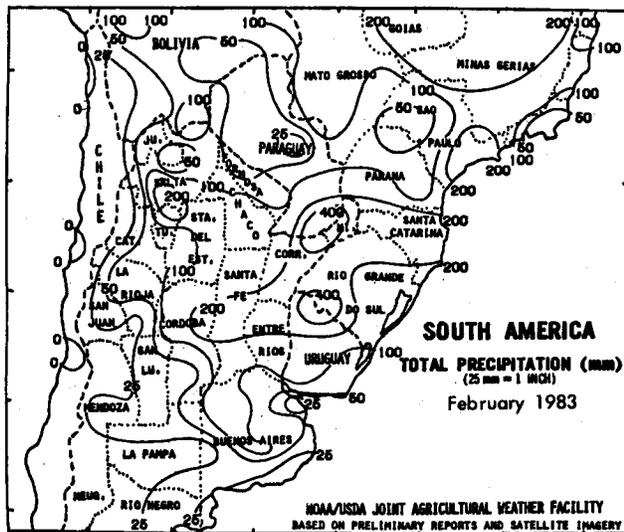
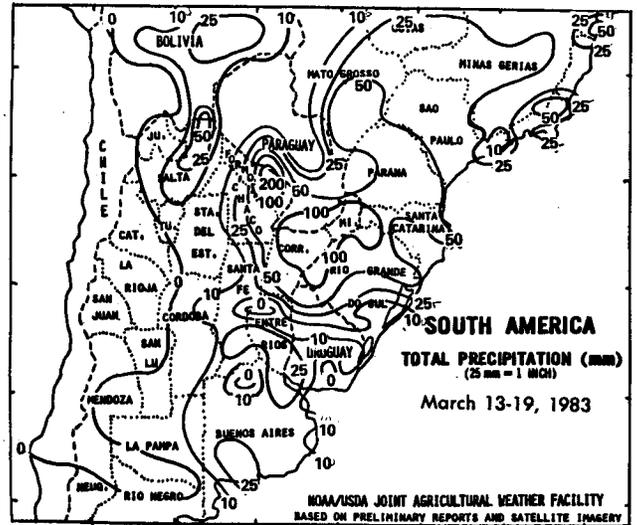




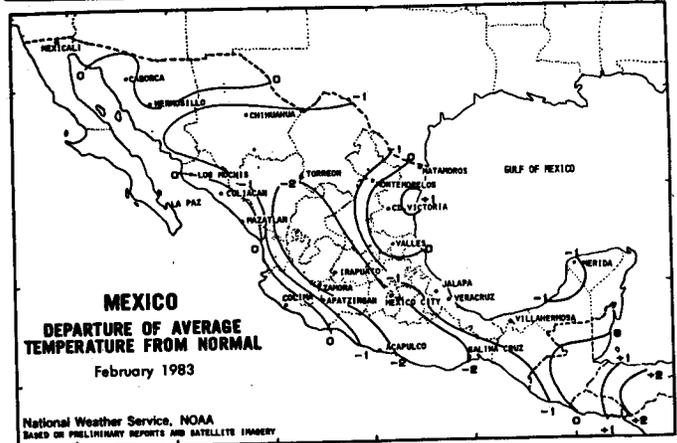
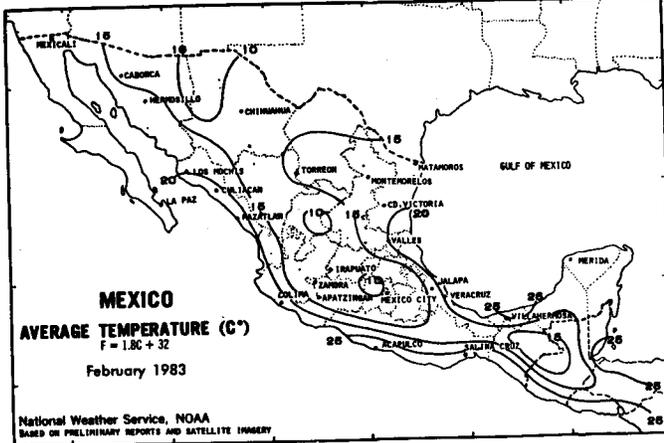
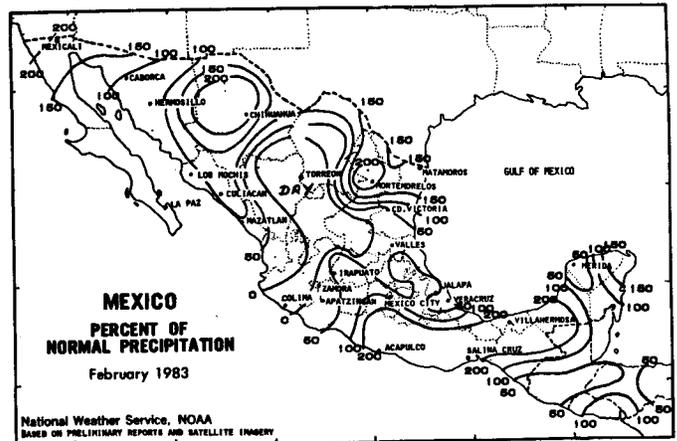
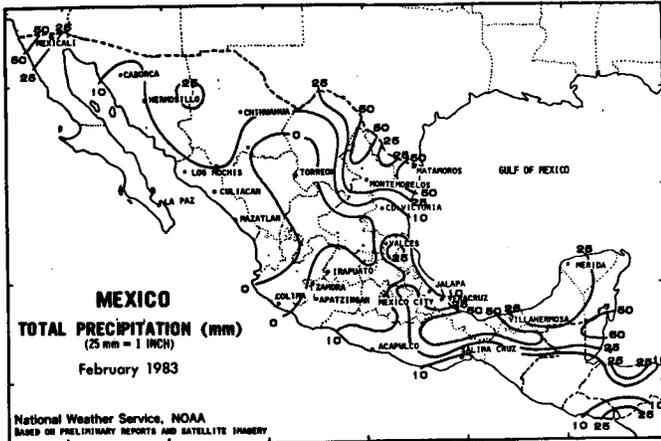
SOUTH ASIA... Generally dry weather covered winter grains in northern India. The dry weather benefited maturing grains in the north and aided the harvest in the southern half of the wheat area. In February, above-normal precipitation in part of Pakistan and Punjab favored winter wheat in the heading stage. Below-normal rain fell on nonirrigated fields further south in Rajasthan and Uttar Pradesh, possibly causing yield prospects to decline in some areas. Elsewhere, dry weather this past week covered India's west coast and southern peninsula, continuing February's seasonably dry pattern. In contrast, rain during February in central Madhya Pradesh, Orissa, and southern West Bengal benefited spring-harvested crops. Recently, dry weather returned to these areas.



SOUTH AMERICA...Heavy rain fell in northern crop areas of Argentina and western soybean areas of Brazil. Locally excessive rains in Formosa Province may have been detrimental to mature cotton. Showers in Argentina's major corn areas temporarily slowed harvesting, while beneficial pre-season showers fell in southern wheat areas of Buenos Aires. Western and southern February rains, while seasonal to above-average monthly rain fell elsewhere in Argentina. In Brazil, another week of locally heavy rain slowed maturing of soybeans in the south and is likely affecting the quality of yields as well as delaying the harvest in the north. February rainfall was well above average in the south, seasonal in western Parana and southern Mato Grosso, and below average in eastern Parana and Sao Paulo. Recent showers in Sao Paulo and Minas Gerais aided coffee/citrus fruit development.



MEXICO...Generally sunny weather favored agriculture in the major production areas. Light rain did not significantly interfere with the winter vegetable harvest or spring crops planting. However, more rain is needed over most areas to replenish irrigation supplies. Moderate rains during February helped improve reservoir water levels over the Northwest and increase soil moisture in rainfed citrus orchards in the Northeast. However, dryness continues to be a potential problem in the southern Plateau corn belt which is usually planted in April and May.



State Summaries (continued from p. 17)

East: Planting some spring grains, early Norgold potatoes, and both dry and green peas underway. Fall seeded grains growing well. Pruning orchards about finished, spraying started. Some frost protection required. Range greening up. Some cattle on last year's cornfields. Calving and lambing continues in full swing.

WEST VIRGINIA: Temperatures averaged 2 to 7° above normal. High 71°, low 17°. Dry early in the week. Rains during latter part of week brought precipitation average above normal. Heaviest in north central and northeastern areas. Range: 0.25 to 1.40 in.

Soil moisture adequate to short. Days worked averaged 4.1. Hay, grain, and other feed supplies adequate.

WISCONSIN: The 14th was the nice day in State featuring sunshine and the high temperature of 51°

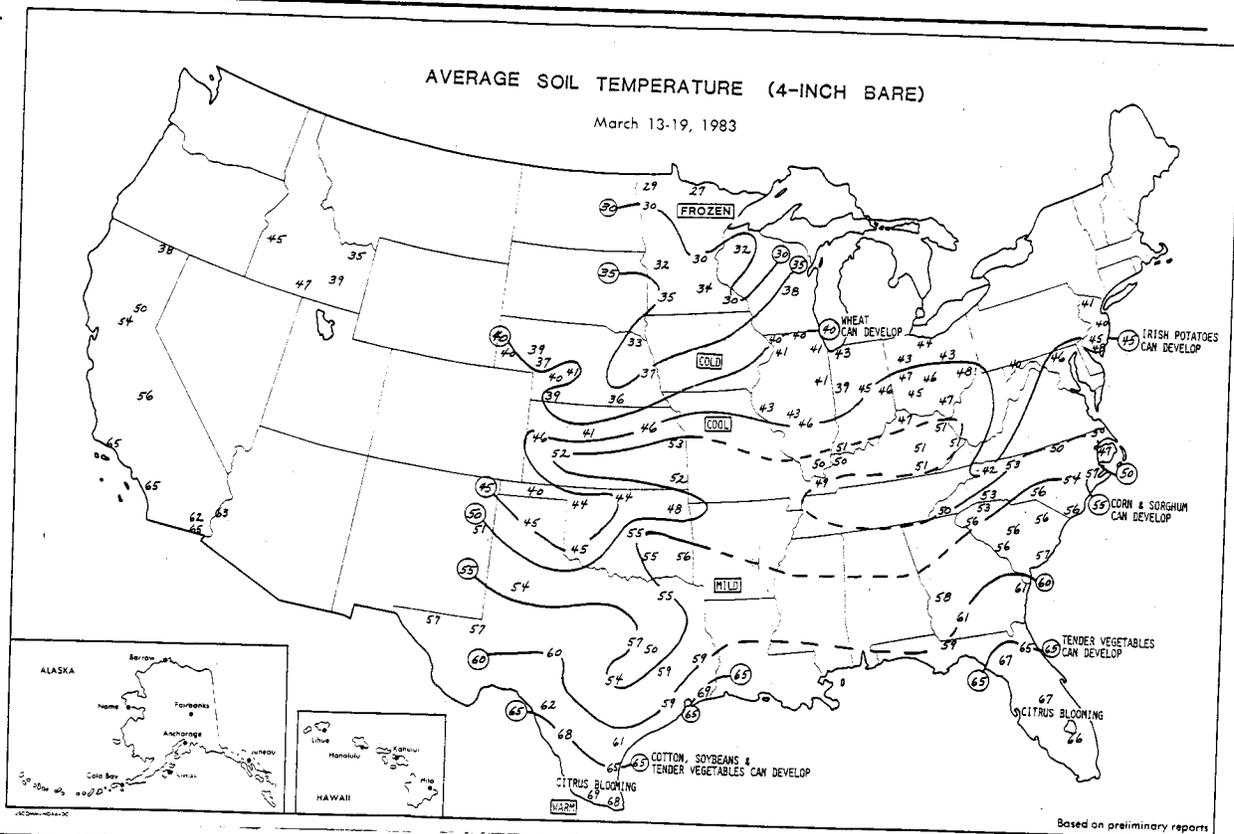
for the week at Baldwin, as well as the low temperature of 16° at Lake Thompson. Snow developed in the northwest on 15th and by 16th 4 to 8 in. had fallen northwest and 2 to 4 in. fell in the central part of the State. Lighter amounts occurred 17th and then on 18th significant snow occurred with 2 to 6 in. falling in the eastern part of the State. On 20th the next storm moved in. Temperatures were steady for the week.

WYOMING: Average temperatures above normal. Light snow fell with above normal moisture most places.

Winter wheat mostly good condition; snow the past week very welcomed for moisture. Malt barley planting continuing Big Horn Basin area. Farmers starting to prepare land for spring planting. Livestock mostly good condition. Calving, lambing, sheep shearing activities increasing.



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