

WEEKLY WEATHER AND CROP BULLETIN

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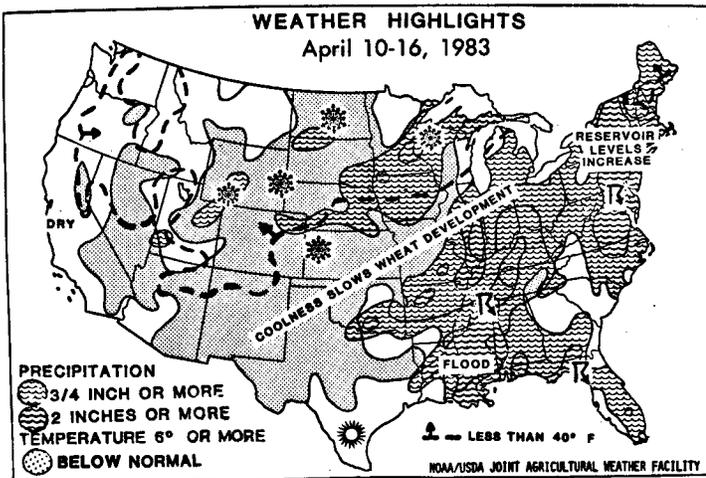
WASHINGTON, D.C.

April 19, 1983

National Weather Summary

April 10 to 16

WEATHER HIGHLIGHTS April 10-16, 1983



HIGHLIGHTS: Light to moderate rain fell in most areas east of the eastern Plains. Snow fell from Nebraska to Iowa and northward. Heavy snow accumulated from northwestern Iowa to northwestern Wisconsin. Heavy rain over much of Mississippi exacerbated flooding, but lighter showers in much of the Southeast allowed fields to drain and drying to start. Heavy rain in the Northeast helped fill reservoirs in some areas but was too much in others. Nearly all of the Nation was cooler than normal. Winter wheat areas in the central and southern Plains were 6-10° cooler than normal, while the western Corn Belt--where planting time is approaching--was 10-14° colder than normal.

SUNDAY...Rainshowers covered the Northeastern quarter of the Nation. Some moderate to heavy amounts fell from eastern Maryland and Delaware through eastern New York and most of New England. Light snow fell in Wisconsin and parts of Iowa. Light showers in the West reached all the way to the southern California coast and became snow at higher elevations. Snow in the northern Rockies spread out over the High Plains of Montana.

MONDAY...Light rainshowers continued over the Northeast but rapidly diminished. Light rain continued all along the west coast with snow at higher elevations and in the central Rockies. Moderate to heavy snow in the central Rockies spread into the central and northern Plains. Wet snow and brisk winds stressed livestock in northern areas.

TUESDAY...Very light showers fell over the West Coast States but were heavier in the Southwest and over the Plateau. Snow fell in the high elevations. Heavy snow fell in the central Rockies, and cold,

wet snow stressed livestock over the High Plains from Nebraska into the Dakotas. Moderate rain, mixed with snow, fell from northeastern Nebraska into Iowa and in central and eastern Minnesota. Southerly winds brought light showers into Texas and Oklahoma, and northeastward into the Ohio Valley and the central and western Great Lakes States.

WEDNESDAY...Showers and thunderstorms were light from eastern Texas and Oklahoma into Missouri early in the day, but became heavy with severe weather in the middle and lower Mississippi Valley. Four or more inches of rain fell over much of Mississippi where streams were just receding from earlier floods. Light to moderate showers covered the rest of the Tennessee and Ohio Valleys and the eastern Great Lakes States. Rain in the east-central Plains changed to snow in the western part. Snow fell in the Dakotas and northern Minnesota.

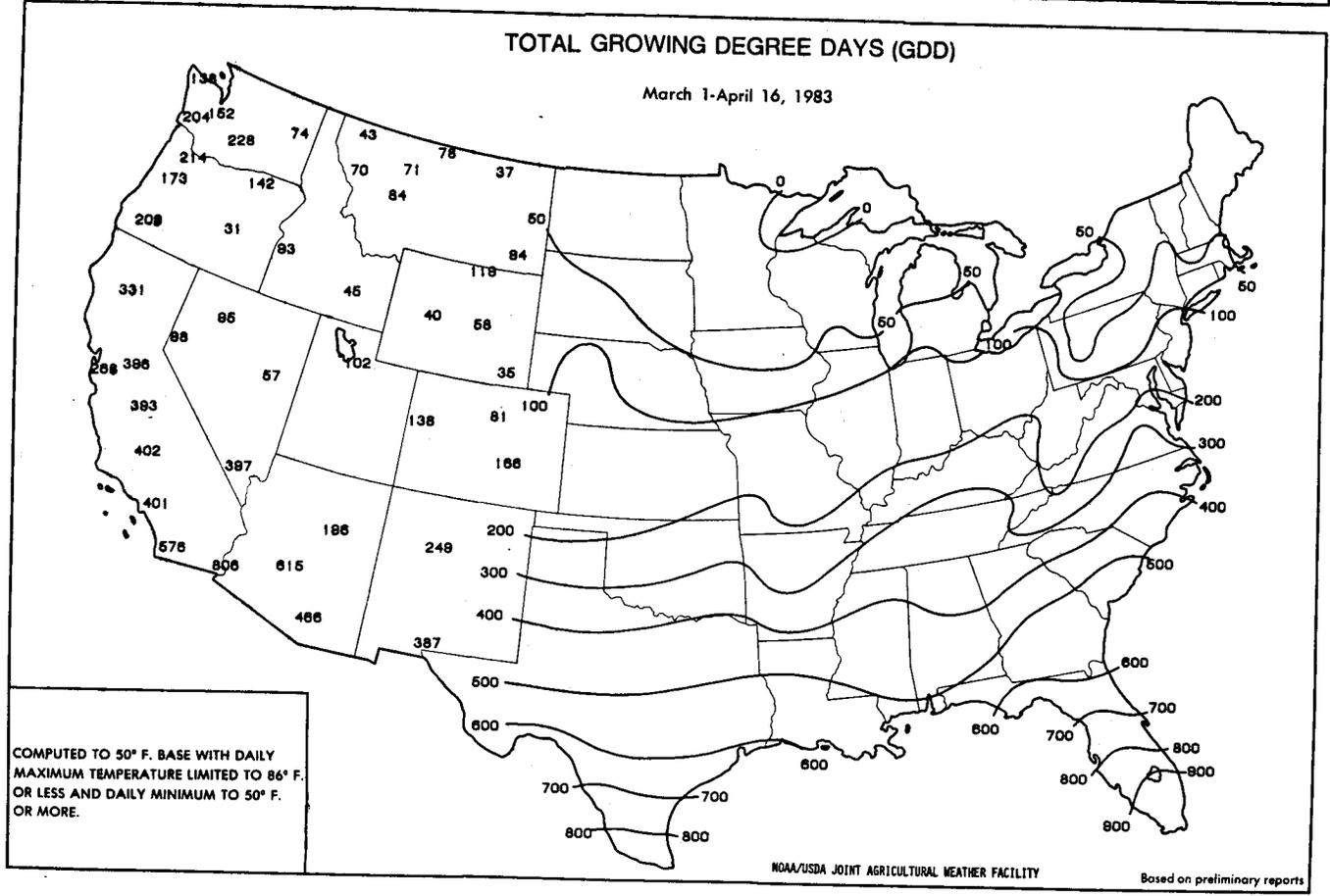
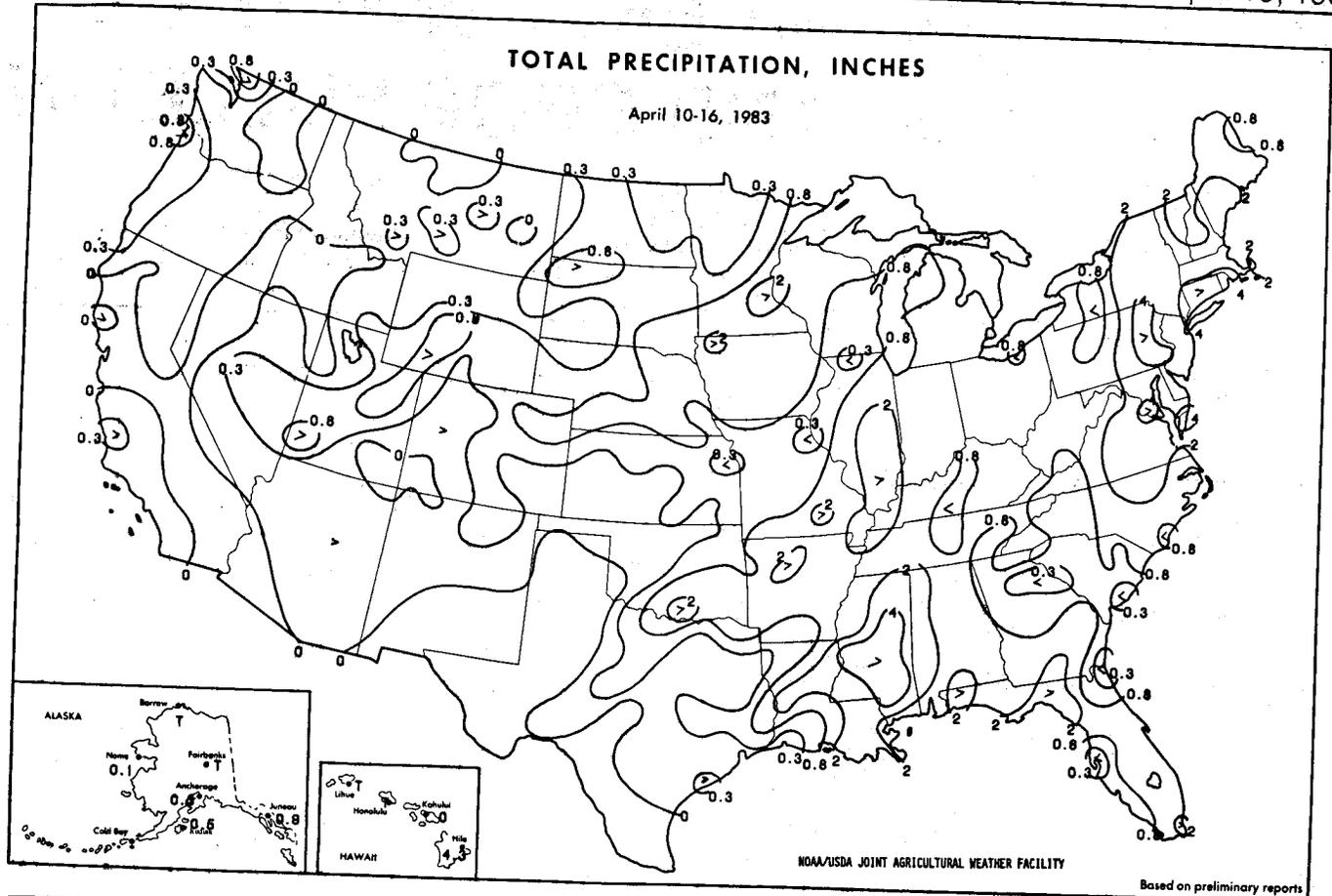
THURSDAY...The heavy rain moved eastward, and a line of moderate to heavy showers and thunderstorms reached from eastern Tennessee through eastern Ohio and western Pennsylvania. Heavy thunderstorms covered southeastern Alabama, southern Georgia, and northern Florida. Lighter rain pushed ahead through the Appalachians to the Piedmont area and westward through the Great Lakes States. Snow fell in Iowa, eastern Minnesota, and northern Wisconsin. Nearly a foot covered the area from Minneapolis to Deluth, Minn. Record-cold temperatures settled over the central Rockies. Cheyenne, Wyo., dropped to -60.

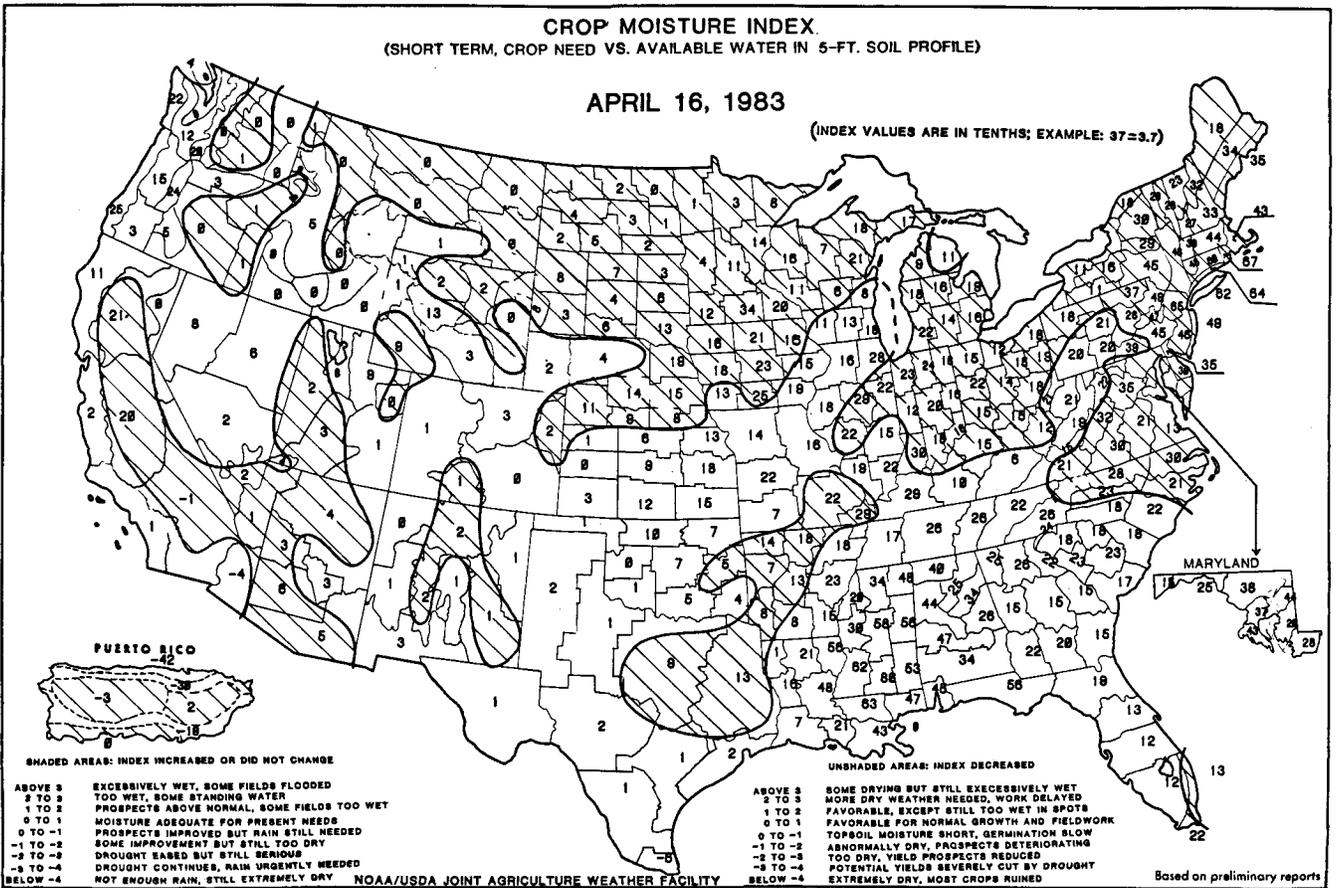
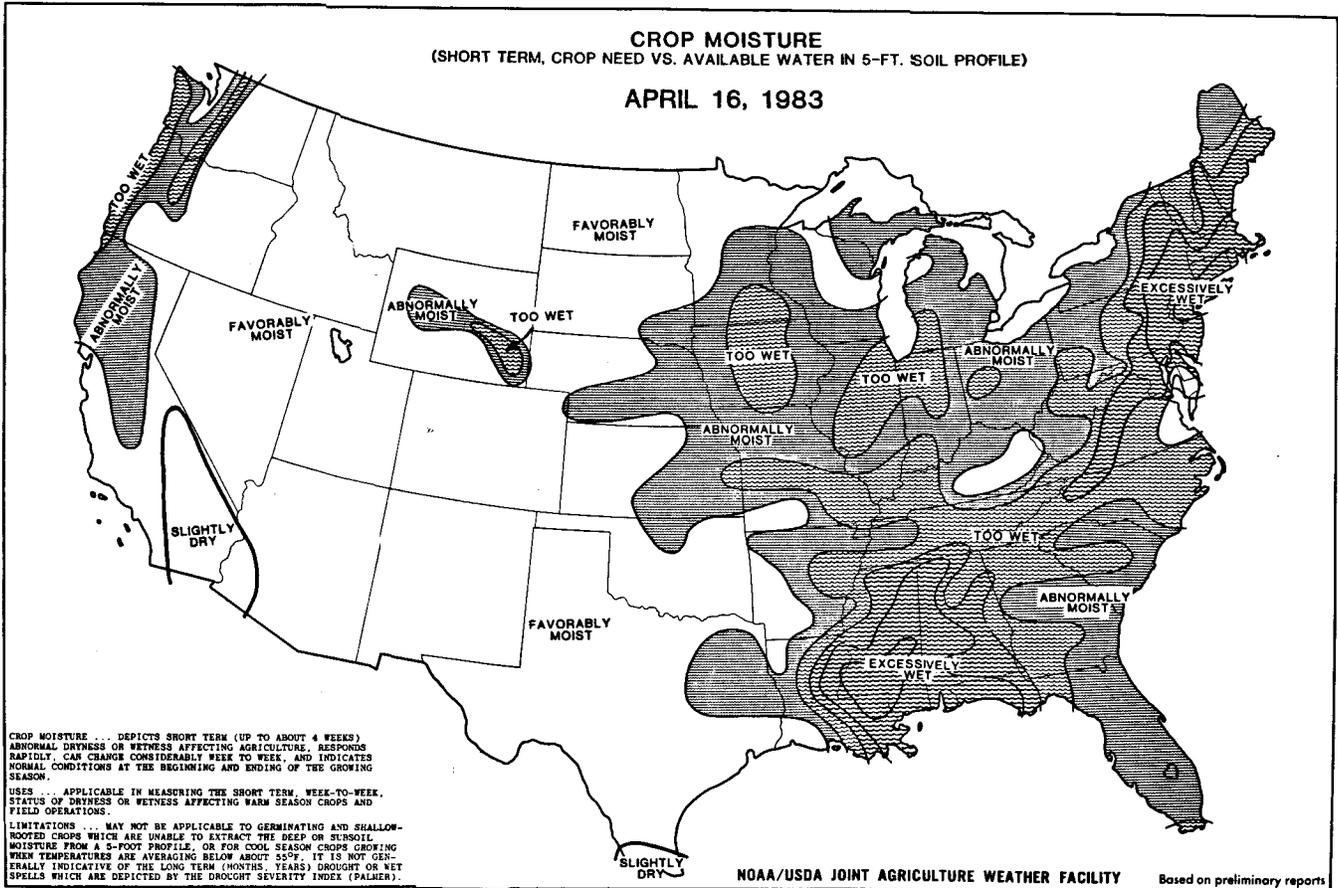
FRIDAY...Freezing temperatures rushed into Michigan and Illinois and as far south as Arkansas and northern Texas. The leading edge of the cold front triggered heavy thunderstorms and severe weather from eastern South Carolina through central New York. Some heavy thunderstorms hit northern Florida, and a few covered the southern tip. Light snow fell over the Great Lakes area and the northern Plains.

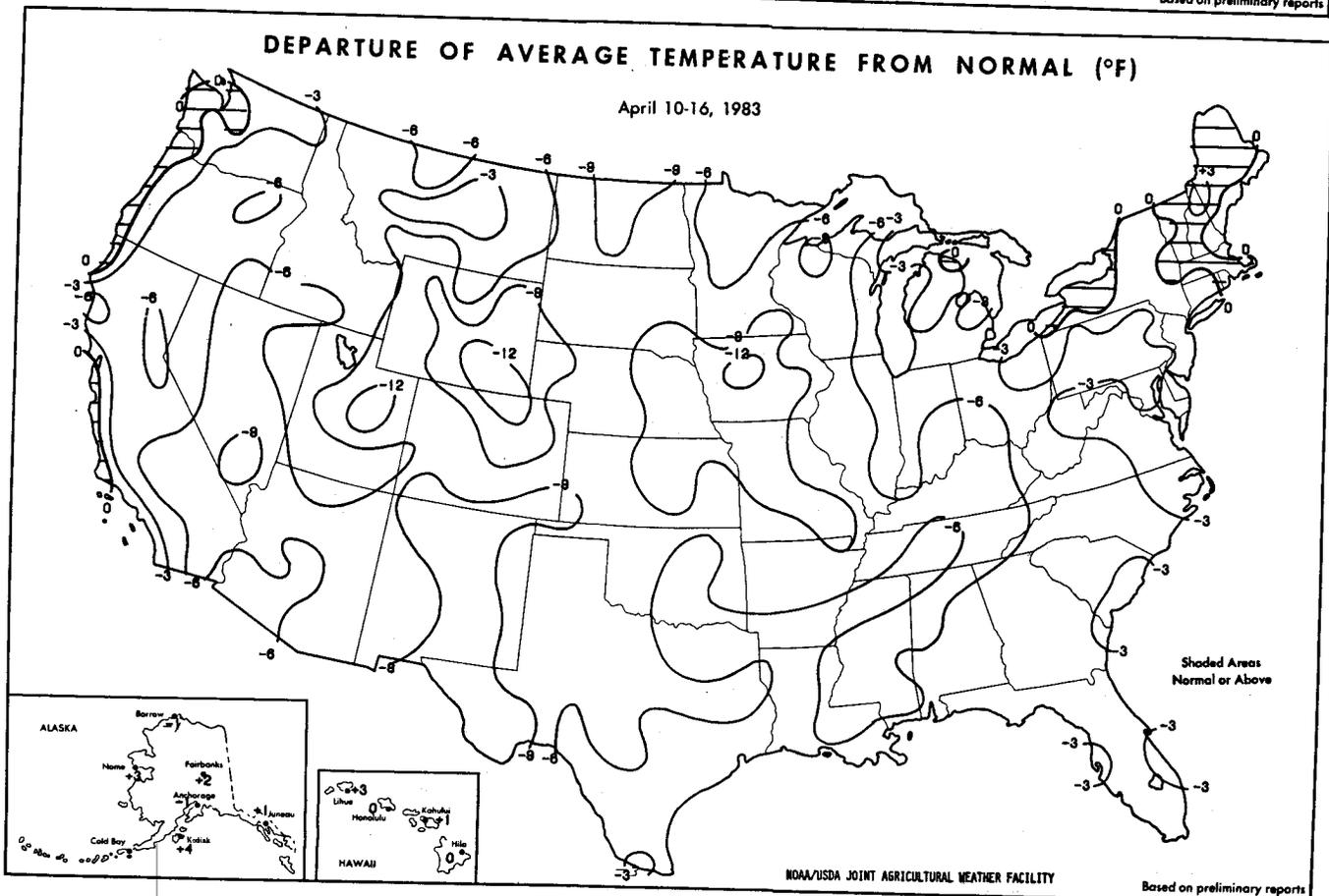
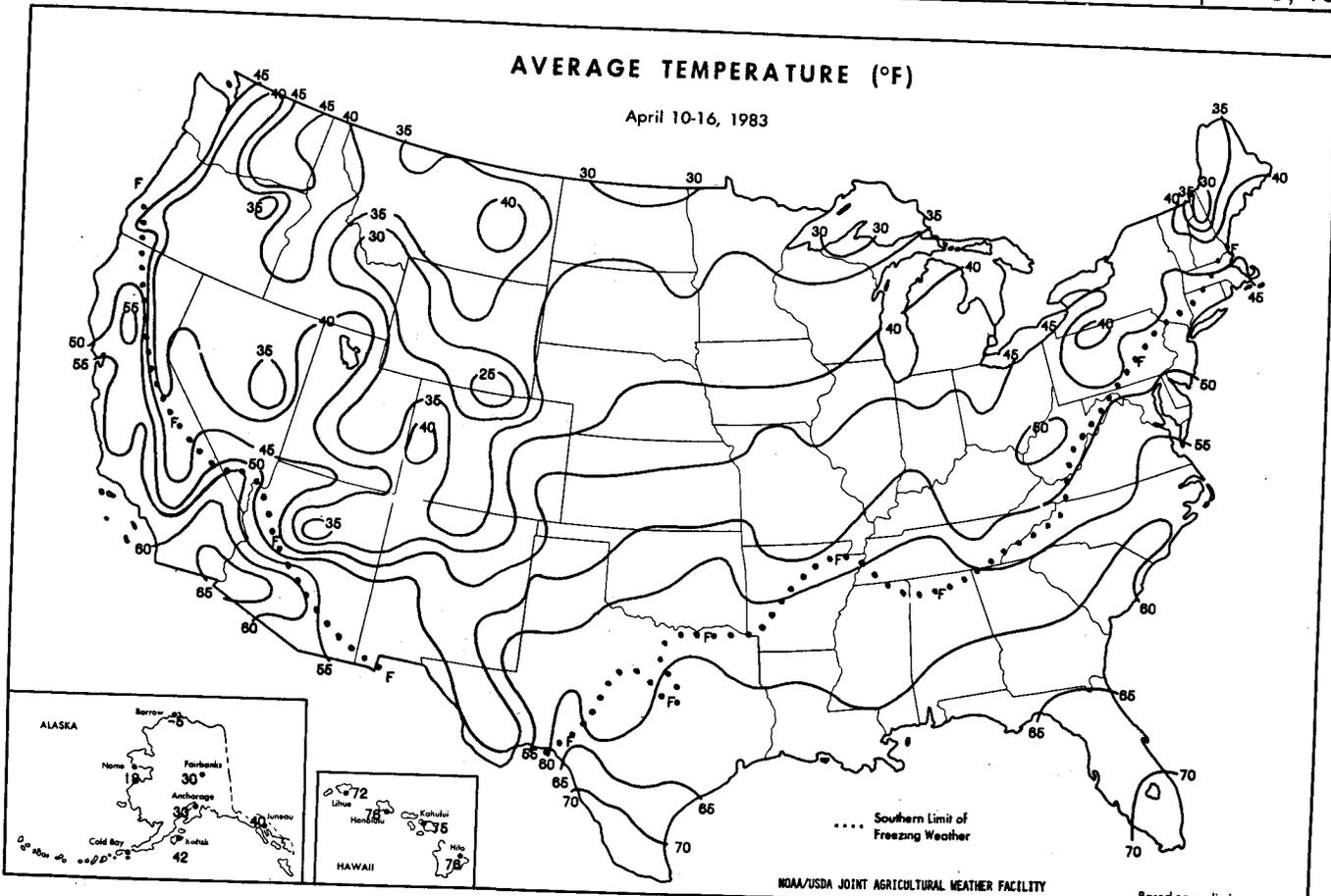
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Heating Degree Days (Base 65° F.)

March 1983

ALA. Birmingham	406	MAINE, Caribou	1171	OKLA. Okla. City	496
Mobile	306	Portland	895	Tulsa	492
Montgomery	418	MD. Baltimore	602	OREG. Astoria	430
ALASKA, Anchorage	1117	MASS. Boston	749	Burns	793
Barrow	2435	Chatham	-	Medford	491
Fairbanks	1581	MICH. Alpena	1053	Pendleton	528
Juneau	-	Detroit	818	Portland	435
Nome	-	Flint	838	Salem	491
ARIZ. Flagstaff	888	Grand Rapids	866	PA. Allentown	708
Phoenix	120	Houghton Lake	1003	Erie	814
Tucson	239	Lansing	895	Harrisburg	686
Winslow	543	Marquette	1205	Philadelphia	653
Yuma	54	S. Ste. Marie	1153	Pittsburgh	746
ARK. Fort Smith	443	MINN. Duluth	1214	Scranton	805
Little Rock	434	Internatl Falls	1145	R. I. Providence	755
CALIF. Bakersfield	277	Minneapolis	947	S. C. Charleston	264
Eureka	355	Rochester	1010	Columbia	352
Fresno	276	St. Cloud	1044	Greenville	414
Los Angeles	218	MISS. Jackson	347	S. DAK. Aberdeen	977
Red Bluff	322	Meridian	340	Huron	923
Stockton	297	MO. Columbia	656	Rapid City	879
San Diego	88	Kansas City	675	Sioux Falls	982
San Francisco	330	St. Louis	632	TENN. Chattanooga	447
COLO. Denver	885	Springfield	563	Knoxville	472
Grand Junction	586	MONT. Billings	810	Memphis	406
Pueblo	739	Glasgow	969	Nashville	458
CONN. Bridgeport	755	Great Falls	909	TEX. Abilene	325
Hartford	793	Havre	912	Amarillo	603
D. C. Washington	497	Helena	823	Austin	229
FLA. Apalachicola	253	Kalispell	830	Beaumont	203
Ft. Myers	54	Miles City	-	Brownsville	18
Jacksonville	233	Missoula	772	Corpus Christi	88
Key West	2	NEBR. Grand Island	832	Dallas	-
Lakeland	-	Lincoln	785	Del Rio	103
Miami	38	Norfolk	858	El Paso	316
Orlando	105	North Platte	854	Fort Worth	324
W. Palm Beach	58	Omaha	844	Galveston	129
Tallahassee	233	Valentine	930	Houston	219
Tampa	103	NEV. Ely	870	Lubbock	430
GA. Atlanta	423	Las Vegas	263	Midland	281
Augusta	332	Reno	752	San Angelo	268
Macon	281	Winnemucca	714	San Antonio	208
Savannah	228	N. H. Concord	895	Victoria	151
IDAHO, Boise	622	N. J. Atlantic City	617	Waco	298
Lewiston	548	Trenton	-	Wichita Falls	377
Pocatello	760	N. MEX. Albuquerque	556	UTAH, Milford	737
ILL. Cairo	490	Roswell	-	Salt Lake City	624
Chicago	847	N. Y. Albany	843	VT. Burlington	983
Moline	802	Binghamton	897	VA. Lynchburg	554
Peoria	758	Buffalo	868	Norfolk	427
Rockford	867	New York	670	Richmond	445
Springfield	749	Rochester	854	Roanoke	551
IND. Evansville	567	Syracuse	902	WASH. Colville	-
Fort Wayne	736	N. C. Asheville	562	Omak	-
Indianapolis	681	Charlotte	441	Quillayute	577
South Bend	760	Greensboro	505	Seattle-Tacoma	479
IOWA, Burlington	-	Hatteras R.	374	Spokane	673
Des Moines	787	Raleigh	438	Walla Walla	477
Dubuque	913	Wilmington	345	Yakima	527
Sioux City	879	N. DAK. Bismarck	1066	W. VA. Beckley	554
KANS. Concordia	748	Fargo	1082	Charleston	529
Dodge City	670	Williston	1076	Huntington	-
Goodland	805	OHIO. Akron-Canton	715	Parkersburg	1046
Topeka	615	Cincinnati	627	WIS. Green Bay	977
Wichita	664	Cleveland	742	Madison	925
KY. Lexington	580	Columbus	669	Milwaukee	881
Louisville	571	Dayton	706	WYO. Casper	1016
LA. Baton Rouge	249	Toledo	833	Cheyenne	884
Lake Charles	229	Youngstown	757	Lander	884
New Orleans	217			Sheridan	788
Shreveport	308				

Weather Data for the Week Ending April 16, 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	
AL BIRMINGHAM	71	43	80	32	57	-5	1.1	.1	1.1	11.4	103	22.6	115	83	32	0	1	1	1	
MOBILE	72	51	81	40	61	-6	1.0	.3	1.0	17.8	155	32.7	168	87	38	0	0	1	1	
MONTGOMERY	73	46	82	40	60	-5	1.3	.3	1.3	19.4	196	32.7	187	89	34	0	0	1	1	
AK ANCHORAGE	38	28	46	21	33	-1	.3	.1	.2	.7	70	1.2	44	92	61	0	5	5	0	
BARROW	2	-11	9	-16	-5	-1	T	T	T	0	0	.1	9	75	59	0	7	0	0	
FAIRBANKS	40	20	50	10	30	2	T	T	T	0	0	.6	38	64	37	0	7	1	0	
JUNEAU	44	36	49	26	40	1	.9	.2	.6	2.1	36	7.4	59	98	75	0	2	6	1	
KODIAK	48	35	53	28	42	4	.5	.6	.2	10.0	135	26.7	166	85	53	0	2	4	0	
NOME	28	11	35	-5	19	3	.1	.1	.1	.5	31	.7	23	73	46	0	7	3	0	
AZ PHOENIX	75	52	85	46	63	-4	T	T	T	3.1	282	5.0	208	61	15	0	0	2	0	
PRESCOTT	56	31	66	26	44	-5	T	T	T	3.0	150	4.5	98	85	34	0	5	2	0	
TUCSON	70	42	82	36	56	-8	.1	0	.1	1.5	150	4.2	175	61	17	0	0	1	0	
YUMA	79	53	89	45	66	-4	T	T	T	.2	50	1.0	111	41	16	0	0	0	0	
AR FORT SMITH	68	38	81	27	53	-8	.7	.3	.7	3.6	51	6.7	59	87	37	0	1	1	1	
LITTLE ROCK	66	44	74	34	55	-7	1.3	.1	1.3	7.2	77	11.1	68	81	44	0	0	2	1	
CA BAKERSFIELD	68	43	85	39	55	-7	.3	.1	.3	2.8	175	6.1	197	92	33	0	0	2	0	
EUREKA	60	41	70	36	50	1	T	.7	T	11.3	145	28.3	147	83	48	0	0	1	0	
FRESNO	68	42	83	36	55	-5	.1	.2	.1	5.5	196	13.6	231	85	28	0	0	1	0	
LOS ANGELES	63	50	72	46	57	-3	T	T	T	7.7	275	17.5	236	77	45	0	0	1	0	
RED BLUFF	68	42	79	38	55	-3	T	.3	T	11.6	305	24.8	232	76	29	0	0	1	0	
SACRAMENTO	66	42	76	39	54	-4	T	.3	T	7.9	219	17.2	185	91	36	0	0	0	0	
SAN DIEGO	68	53	84	50	61	0	.1	.1	.1	7.3	317	12.6	233	77	41	0	0	2	0	
SAN FRANCISCO	61	44	69	39	52	-2	0	.4	0	9.7	220	22.5	205	80	44	0	0	0	0	
CO DENVER	47	27	65	19	37	-10	.3	.1	.2	5.5	204	5.7	173	79	35	0	5	3	0	
GRAND JUNCTION	56	34	66	25	45	-6	.1	0	.1	2.0	154	3.2	133	79	28	0	4	2	0	
PUEBLO	58	26	71	21	42	-8	T	.2	T	2.4	150	3.0	150	77	22	0	6	1	0	
CT BRIDGEPORT	51	41	56	36	46	-2	7.4	6.5	3.2	14.9	219	21.0	186	91	65	0	0	2	2	
HARTFORD	55	37	62	30	46	-2	4.3	3.3	2.5	12.5	167	21.1	165	79	46	0	1	3	2	
DC WASHINGTON	60	44	64	41	52	-4	3.3	2.6	1.9	10.5	178	15.5	150	87	49	0	0	4	3	
FL APALACHICOLA	73	54	76	45	64	-4	2.4	1.6	1.6	12.3	166	21.4	165	91	50	0	0	2	2	
DAYTONA BEACH	75	54	82	51	65	-4	1.5	1.0	1.3	12.1	237	20.6	217	95	48	0	0	2	1	
JACKSONVILLE	74	51	78	44	63	-4	.2	.6	.2	12.0	190	23.4	202	96	46	0	0	1	0	
KEY WEST	78	69	82	64	74	-4	1.4	1.1	1.0	8.5	327	29.6	519	78	53	0	0	3	1	
MIAMI	79	62	81	55	70	-5	1.6	1.0	.8	7.4	185	18.1	245	86	53	0	0	3	2	
ORLANDO	79	57	83	51	68	-3	1.1	.6	.6	8.7	167	18.6	190	92	39	0	0	2	1	
TALLAHASSEE	76	51	83	43	64	-3	1.2	.3	.8	19.5	207	29.4	177	92	33	0	0	2	1	
TAMPA	78	60	83	55	69	-2	.1	.3	.1	10.5	191	18.6	188	91	43	0	0	1	0	
WEST PALM BEACH	78	65	80	56	71	-2	1.8	1.1	1.4	8.3	157	25.6	267	83	54	0	0	3	1	
GA ATLANTA	67	46	77	38	56	-5	.3	.8	.1	11.1	114	18.8	111	81	35	0	0	2	0	
AUGUSTA	70	47	76	40	59	-4	.3	.5	.3	11.2	145	20.9	153	83	36	0	0	2	0	
MACON	73	49	80	43	61	-4	.3	.5	.2	9.6	114	22.6	147	89	37	0	0	2	0	
SAVANNAH	72	53	77	45	63	-3	.6	.1	.6	11.0	159	21.7	185	81	41	0	0	1	1	
HI HILO	78	66	83	64	72	0	4.3	1.1	3.0	8.9	35	10.5	24	94	62	0	0	7	1	
HONOLULU	84	68	86	62	76	0	T	.3	T	.6	13	.9	8	85	48	0	0	1	0	
KAHULUI	85	64	88	58	75	1	0	.3	0	1.0	24	1.6	16	81	46	0	0	0	0	
LIHUE	81	71	83	67	76	3	T	.7	T	1.0	14	1.8	11	79	56	0	0	1	0	
ID BOISE	55	30	63	24	43	-5	0	.3	0	3.1	141	6.0	133	81	28	0	4	0	0	
LEWISTON	59	31	69	28	45	-5	T	.3	T	1.5	88	3.7	106	81	31	0	5	1	0	
POCATELLO	50	29	59	23	39	-4	.1	.2	.1	3.5	175	5.1	146	80	37	0	5	1	0	
IL CHICAGO	51	34	70	26	43	-5	1.7	.8	1.3	9.8	175	12.6	162	88	54	0	3	5	1	
MOLINE	51	35	60	25	43	-7	.4	.5	.3	7.2	124	9.2	119	81	54	0	3	3	0	
PEORIA	54	36	66	26	45	-6	1.0	.1	.8	8.7	150	10.2	126	87	57	0	3	3	1	
QUINCY	53	36	65	31	44	-8	.2	.7	.2	7.7	126	8.6	104	85	56	0	2	2	0	
ROCKFORD	50	33	67	21	42	-5	.2	.8	.1	6.3	105	8.5	105	92	60	0	3	3	0	
SPRINGFIELD	56	37	68	31	47	-6	1.1	.1	1.1	6.4	105	7.8	91	89	54	0	1	2	1	
IN EVANSVILLE	61	41	75	30	51	-5	1.6	.6	1.4	9.3	112	11.9	86	81	42	0	1	3	1	
FORT WAYNE	53	36	66	30	45	-4	1.2	.3	.6	5.2	88	6.9	73	84	57	0	2	6	1	
INDIANAPOLIS	54	38	67	30	46	-6	1.3	.4	.8	6.1	88	8.1	74	90	60	0	1	5	1	
SOUTH BEND	51	35	67	29	43	-4	1.6	.6	.8	6.2	97	7.9	81	91	59	0	3	6	1	
IA DES MOINES	48	34	57	29	41	-9	1.2	.5	.8	7.0	146	10.3	163	85	57	0	4	4	1	
SIoux CITY	46	30	55	24	38	-11	1.3	.8	.9	7.1	215	8.2	195	86	54	0	5	4	1	
WATERLOO	46	32	52	25	39	-7	1.0	.1	.4	6.2	129	8.4	142	96	67	0	4	5	0	
KS CONCORDIA	53	31	65	26	42	-10	.5	0	.3	4.9	148	7.7	188	85	44	0	5	3	0	
DODGE CITY	61	33	81	25	47	-7	T	.4	T	4.3	179	6.2	194	82	32	0	5	1	0	
GOODLAND	54	29	68	22	42	-6	.4	.2	.3	3.1	182	4.2	183	82	37	0	5	3	0	
TOPEKA	59	36	71	30	48	-6	.2	.5	.2	8.5	185	9.8	169	80	39	0	1	3	0	
WICHITA	61	34	75	25	48	-8	1.1	.6	.9	8.2	234	11.3	240	84	38	0	3	2	1	
KY BOWLING GREEN	61	38	76	30	50	-7	.8	.2	.4	6.1	66	10.5	59	90	50	0	1	4	0	
LEXINGTON	57	40	69	30	48	-6	.7	.2	.4	4.3	52	7.1	50	84	47	0	1	3	0	
LOUISVILLE	59	40	69	30	50	-6	1.0	0	.4	5.1	60	8.1	57	81	45	0	1	3	0	
LA ALEXANDRIA	74	51	81	42	62	-4	1.6	.4	1.6	9.0	96	19.9	114	75	35	0	0	1	1	

Weather Data for the Week Ending April 16, 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	32 AND BELOW	PRECIPITATION	
																		.01 INCH OR MORE	.50 INCH OR MORE
ME SHREVEPORT	73	45	84	35	59	-6	.2	-.9	.2	4.3	55	15.3	109	90	33	0	0	2	0
ME CARIBOU	45	29	55	26	37	1	.8	.2	.7	4.7	107	9.3	116	84	54	0	7	2	1
ME PORTLAND	47	35	57	30	41	-1	2.0	1.1	1.3	12.3	173	20.8	165	89	60	0	1	4	2
MD BALTIMORE	58	41	62	34	49	-4	3.1	2.4	1.8	11.8	187	18.9	170	90	50	0	0	2	2
MD SALISBURY	60	42	68	37	51	-3	2.2	1.5	1.6	11.3	164	16.4	129	99	61	0	0	3	2
MA BOSTON	50	41	58	40	46	-2	2.6	1.7	2.2	13.7	188	23.7	177	86	56	0	0	3	1
MA CHATHAM	48	40	56	37	44	0	1.1	.2	.7	15.2	--	24.5	--	92	75	0	0	3	1
MI ALPENA	47	33	56	25	40	0	.8	.3	.5	5.2	141	8.5	135	97	59	0	4	3	0
MI DETROIT	52	36	61	29	44	-3	1.3	.5	.7	4.6	88	6.2	78	87	54	0	3	4	2
MI FLINT	50	36	60	29	43	-2	1.0	.2	.4	4.7	102	6.7	91	90	58	0	2	5	0
MI GRAND RAPIDS	51	33	63	24	42	-4	1.9	1.0	1.3	6.9	125	9.5	119	83	53	0	3	4	1
MI HOUGHTON LAKE	46	33	55	25	40	-1	.7	.1	.5	4.5	125	6.6	112	93	66	0	2	5	0
MI LANSING	50	33	61	22	42	-4	1.0	.3	.6	5.9	126	7.7	100	94	59	0	3	3	1
MI MARQUETTE	36	25	47	13	30	-6	1.8	1.0	.8	8.0	151	13.9	174	99	75	0	6	6	1
MI MUSKEGON	50	34	62	24	42	-3	1.3	.5	.7	5.9	111	8.2	98	88	56	0	3	4	2
MI SAULT STE. MARIE	43	28	53	19	36	-1	1.5	1.0	.9	5.2	144	8.5	129	94	66	0	5	5	1
MN ALEXANDRIA	45	28	57	22	37	-4	.3	-.2	.1	2.2	81	3.3	94	89	50	0	6	3	0
MN DULUTH	36	25	45	14	30	-7	1.5	1.0	1.0	4.2	127	6.0	125	92	61	0	7	4	1
MN INT'L FALLS	42	25	54	18	34	-4	.1	-.2	.1	1.6	67	2.7	79	76	37	0	7	4	2
MN MINNEAPOLIS	44	31	57	24	38	-7	2.6	2.2	1.6	6.8	219	8.6	215	96	59	0	2	4	1
MN ROCHESTER	40	28	48	18	34	-10	1.5	.9	.9	4.3	116	6.3	147	92	70	0	5	4	1
MS GREENWOOD	69	46	79	37	58	-6	1.3	0	1.3	9.7	89	21.0	111	89	43	0	0	1	1
MS JACKSON	73	46	82	33	59	-5	4.9	3.5	4.9	20.7	190	34.8	190	95	34	0	0	1	1
MS MERIDIAN	74	44	81	33	59	-5	2.4	1.1	1.9	17.0	150	29.3	155	96	32	0	0	1	0
MO CAFE GIRARDEAU	62	41	72	32	51	--	1.5	.5	1.5	7.9	100	9.3	70	92	56	0	1	2	1
MO COLUMBIA	56	37	72	29	46	-8	.4	-.5	.3	7.4	128	8.2	101	88	53	0	1	4	0
MO KANSAS CITY	55	33	71	22	44	-10	.3	-.5	.2	7.1	142	8.3	124	90	45	0	3	3	0
MO SAINT LOUIS	59	40	71	36	50	-6	1.2	.3	.9	7.5	123	9.2	103	91	51	0	0	3	1
MO SPRINGFIELD	60	37	77	27	48	-7	.5	-.4	.5	6.6	105	7.9	86	78	43	0	2	2	0
MT BILLINGS	49	28	64	19	38	-6	.2	-.3	.1	1.0	40	1.4	41	85	32	0	4	2	0
MT GLASGOW	51	26	62	15	39	-3	T	-.2	T	.6	75	.8	50	72	27	0	6	1	0
MT GREAT FALLS	50	22	62	15	36	-6	T	-.3	T	1.8	95	2.2	69	79	26	0	7	1	0
MT HAVRE	49	23	64	16	36	-6	0	-.3	0	.7	44	1.1	48	88	31	0	7	0	0
MT HELENA	52	26	63	17	39	-2	T	-.2	T	.7	54	1.1	58	79	25	0	7	1	0
MT KALISPELL	54	24	62	17	39	-3	T	-.1	.1	2.0	133	3.9	105	84	26	0	7	2	0
MT MILES CITY	52	29	64	18	41	-3	T	-.3	T	.9	53	1.2	55	74	25	0	4	0	0
MT MISSOULA	55	26	64	21	40	-3	T	-.2	T	1.5	100	3.0	97	91	25	0	7	1	0
NE GRAND ISLAND	50	29	61	24	40	-10	.9	.3	.7	4.6	144	5.6	151	85	45	0	5	3	1
NE LINCOLN	52	31	63	27	42	-9	.5	-.1	.2	4.8	133	6.3	147	92	49	0	5	3	0
NE NORFOLK	48	31	59	25	40	-8	1.7	1.2	1.5	5.8	200	7.2	185	85	46	0	4	3	1
NE NORTH PLATTE	51	27	63	21	39	-8	.9	.5	.9	2.8	127	3.4	121	85	41	0	6	2	1
NE OMAHA	48	31	59	25	40	-10	1.2	.6	.6	7.7	208	9.9	206	92	58	0	4	3	2
NE SCOTTSBLUFF	49	23	65	13	36	-10	.4	.1	.4	2.7	135	2.9	132	83	40	0	6	2	0
NE VALENTINE	48	25	58	17	37	-8	.2	-.2	.2	1.8	86	1.9	73	77	39	0	5	2	0
NV ELY	45	23	56	18	34	-6	.5	.3	.3	2.3	128	4.7	174	88	43	0	7	3	0
NV LAS VEGAS	65	44	74	37	54	-8	T	-.1	T	1.0	125	1.8	120	56	21	0	0	1	0
NV RENO	54	30	67	24	42	-4	.2	.2	.2	1.9	211	4.6	170	81	30	0	6	1	0
NV WINNEMUCCA	54	22	67	14	38	-6	0	-.2	0	1.6	114	3.5	121	70	21	0	6	0	0
NH CONCORD	50	33	62	27	41	-2	1.8	1.1	1.4	10.1	187	16.2	167	86	50	0	3	3	1
NJ ATLANTIC CITY	57	40	61	33	49	-2	3.6	2.9	1.8	11.6	163	17.4	133	95	62	0	0	3	2
NM ALBUQUERQUE	61	32	71	26	46	-8	T	-.1	T	.6	67	2.4	160	72	20	0	5	2	0
NM CLOVIS	62	34	73	29	48	-8	T	-.2	T	1.1	92	2.5	139	61	21	0	3	0	0
NM ROSWELL	67	35	76	29	51	-10	T	-.1	T	.7	100	1.3	108	63	21	0	2	0	0
NY ALBANY	55	39	61	31	47	2	2.7	2.1	1.8	9.1	175	14.8	172	83	49	0	1	4	2
NY BINGHAMTON	49	34	60	30	42	-2	3.6	2.9	2.1	7.0	132	11.0	121	92	54	0	3	4	3
NY BUFFALO	53	36	67	29	45	0	1.0	.3	.3	5.0	91	7.7	75	91	52	0	3	4	0
NY NEW YORK	55	44	59	38	49	-2	5.3	4.4	2.9	16.3	226	23.4	195	90	63	0	0	2	7
NY ROCHESTER	52	37	62	30	45	0	.7	.1	.5	3.8	76	6.4	74	92	55	0	2	4	0
NY SYRACUSE	53	36	65	28	44	-1	2.4	1.6	1.1	5.2	88	8.2	80	97	55	0	3	4	2
NC ASHEVILLE	63	39	72	32	51	-4	.5	.4	.3	10.4	125	19.3	139	92	48	0	1	3	0
NC CHARLOTTE	67	45	72	36	56	-4	.5	.2	.5	8.3	114	16.0	117	82	40	0	0	1	1
NC GREENSBORO	63	43	69	38	53	-5	1.0	.2	.9	9.9	150	15.1	123	83	41	0	0	2	1
NC HATTERAS	65	49	72	37	57	-2	1.5	.8	.8	13.5	208	30.1	217	88	49	0	0	2	2
NC NEW BERN	68	49	72	42	59	-3	.8	.2	.7	11.5	189	23.5	182	91	47	0	0	2	1
NC RALEIGH	66	42	72	33	54	-5	2.2	1.6	2.2	11.0	180	18.8	158	86	40	0	0	3	0
NC WILMINGTON	68	47	74	40	57	-5	.5	-.2	.4	10.9	163	23.1	186	94	45	0	0	3	0
ND BISMARCK	43	23	55	19	33	-8	.5	.1	.3	2.3	128	2.8	108	94	51	0	7	3	0
ND FARGO	43	25	56	20	34	-7	.3	-.1	.2	2.6	124	3.3	127	89	47	0	7	2	0
ND GRAND FORKS	43	26	55	21	34	-5	T	-.3	T	1.1	117	2.7	104	78	49	0	7	0	0
ND WILLISTON	48	20	60	12	34	-7	T	-.3	T	1.1	73	1.5	71	90	35	0	7	1	0
OH AKRON-CANTON	55	39	69	32	47	-1	1.3	.6	1.0	6.4	108	9.3	94	88	52	0	1	4	1
OH CINCINNATI	55	37	65	26	46	-7	1.1	.2	.5	5.0	70	7.7	62	88	48	0	2	4	1
OH CLEVELAND	54	38	72	30	46	-1	.8	0	.6	5.1	86	7.0	77	80	47	0	1	3	1
OH COLUMBUS	54	37	69	28	46	-5	1.0	.2	.5	5.1	82	7.0	68	87	50	0	2	3	1

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

Weather Data for the Week Ending April 16, 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
DAYTON	52	36	63	29	44	-7	1.2	.4	.6	5.8	98	7.9	79	84	50	0	2	5	1
TOLEDO	51	35	63	28	43	-4	1.5	.7	.7	4.9	98	6.3	79	97	57	0	3	4	2
YOUNGSTOWN	54	39	66	30	46	0	1.5	.7	1.2	6.8	111	9.1	88	87	53	0	1	4	1
OK OKLAHOMA CITY	67	40	83	31	54	-6	.1	.5	.1	3.8	95	8.3	143	78	26	0	2	1	0
TULSA	70	43	85	34	56	-4	.5	.4	.5	3.4	59	8.3	104	72	24	0	0	2	1
OR ASTORIA	60	35	69	31	48	0	.8	.3	.8	11.1	97	33.3	123	95	47	0	1	2	1
BURNS	49	25	59	19	37	-5	T	.1	T	3.3	236	6.1	153	76	34	0	7	1	0
MEDFORD	62	32	76	28	47	-3	.1	.2	.1	3.4	126	10.0	125	91	34	0	5	1	0
PENDLETON	57	32	68	30	45	-5	0	.2	0	3.4	189	5.6	137	79	31	0	4	0	0
PORTLAND	62	37	76	33	50	0	.3	.2	.3	7.9	136	21.9	147	90	36	0	0	1	0
SALEM	62	32	75	27	47	-2	.5	0	.5	10.2	150	26.6	152	98	45	0	4	1	1
PA ALLENTOWN	55	39	63	35	47	-2	3.8	2.9	1.6	11.8	171	17.9	154	87	56	0	0	3	3
ERIE	53	38	67	30	45	1	1.4	.6	.3	5.1	93	7.7	83	80	52	0	1	3	1
HARRISBURG	54	39	57	32	47	-5	3.3	2.6	2.2	10.6	180	16.2	160	90	55	0	1	4	2
PHILADELPHIA	57	40	66	35	48	-4	4.3	3.4	1.7	13.0	194	19.3	172	91	58	0	0	3	3
PITTSBURGH	54	38	63	31	46	-4	1.3	.5	.5	6.8	106	9.7	91	88	46	0	1	4	1
SCRANTON	51	37	63	32	44	-4	5.1	4.4	3.0	9.6	192	12.3	148	93	66	0	1	4	3
RI PROVIDENCE	55	41	60	36	48	1	4.5	3.5	4.4	15.0	192	24.0	178	79	49	0	0	2	1
SC CHARLESTON	71	52	74	45	62	-2	.3	.3	.3	13.3	190	23.9	194	89	42	0	0	1	0
COLUMBIA	71	46	76	37	59	-5	.5	.3	.3	13.1	164	21.1	154	87	36	0	0	2	0
FLORENCE	70	49	74	42	60	-3	.7	.1	.7	12.9	190	21.6	185	87	41	0	0	1	1
GREENVILLE	67	43	72	36	55	-5	.5	.5	.3	8.9	96	16.7	102	84	38	0	0	2	0
SD ABERDEEN	45	27	55	20	36	-8	.6	.1	.4	3.2	139	3.6	120	91	49	0	7	5	0
HURON	47	28	56	24	37	-7	.7	.3	.6	3.3	138	3.4	117	94	47	0	6	4	1
RAPID CITY	44	26	62	18	37	-7	.2	.2	.1	1.4	58	1.7	61	82	45	0	6	3	0
SIoux FALLS	47	27	56	21	36	-10	1.7	1.1	1.1	5.3	161	6.1	139	95	58	0	6	4	1
TN CHATTANOOGA	67	41	79	35	54	-5	.4	.6	.4	9.1	91	16.2	86	86	33	0	0	2	0
KNOXVILLE	66	41	80	32	54	-6	.5	.4	.4	6.4	72	10.9	64	86	38	0	1	3	0
MEMPHIS	67	44	79	36	56	-6	1.6	.2	1.6	10.0	101	14.8	82	84	39	0	0	1	0
NASHVILLE	67	42	79	31	55	-4	.4	.7	.3	8.4	91	13.9	82	82	34	0	1	3	0
TX ABILENE	73	44	84	33	59	-6	.2	.3	.2	2.3	.88	4.6	115	63	17	0	0	1	0
AMARILLO	64	34	80	25	49	-7	T	.2	T	1.8	129	4.8	229	69	22	0	4	0	0
AUSTIN	76	50	83	40	63	-5	T	.7	T	6.0	154	10.9	133	68	26	0	0	2	0
BEAUMONT	73	55	77	42	64	-4	.1	.8	0	5.2	85	14.7	112	92	49	0	0	1	0
BROWNSVILLE	83	59	95	48	71	-4	0	.4	0	.6	35	4.3	102	86	36	1	0	0	0
CORPUS CHRISTI	80	56	90	45	68	-5	T	.4	T	3.0	120	7.1	127	83	38	1	0	0	0
DEL RIO	80	51	89	44	66	-6	0	.4	0	1.1	55	2.8	88	61	17	0	0	0	0
EL PASO	68	39	75	33	53	-10	0	0	0	1.8	450	2.7	245	66	19	0	0	0	0
FORT WORTH	74	46	85	35	60	-5	T	.8	T	4.4	86	8.2	98	71	20	0	0	1	0
GALVESTON	69	59	72	53	64	-4	.1	.5	.1	3.1	69	10.6	114	83	61	0	0	1	0
HOUSTON	75	50	83	38	63	-6	T	1.0	T	4.1	67	10.1	83	85	35	0	0	1	0
LUBBOCK	69	36	81	28	52	-7	T	.2	T	1.2	71	4.2	175	61	18	0	2	0	0
MIDLAND	73	38	87	29	56	-8	0	.2	0	.3	27	1.8	90	48	15	0	2	0	0
SAN ANGELO	76	43	88	29	60	-7	.2	.2	.2	1.5	71	4.0	118	63	19	0	1	1	0
SAN ANTONIO	77	48	83	38	62	-7	T	.6	T	3.8	119	6.8	111	72	24	0	0	1	0
VICTORIA	78	52	86	41	65	-6	.2	.4	.2	4.5	125	10.0	145	86	36	0	0	1	0
WACO	75	44	83	31	60	-7	T	.8	T	3.6	72	7.8	92	86	28	0	1	1	0
WICHITA FALLS	72	41	85	32	57	-7	T	.7	T	2.5	64	5.3	96	80	25	0	1	0	0
UT BLANDING	50	27	58	24	38	-8	T	.1	T	2.4	171	5.5	177	59	47	0	2	0	0
CEDAR CITY	52	30	62	23	41	-6	.9	.7	.4	3.0	150	4.9	163	75	33	0	6	3	0
SALT LAKE CITY	52	34	58	28	43	-5	.1	.5	.1	4.9	132	7.4	137	76	37	0	4	1	0
VT BURLINGTON	50	35	61	28	43	1	2.1	1.4	1.2	5.1	121	9.9	141	87	51	0	2	4	2
VA NORFOLK	63	45	72	40	54	-3	1.5	.9	.9	8.5	139	16.8	141	89	48	0	0	3	1
ROANOKE	65	44	70	37	55	-3	3.1	2.5	2.5	10.4	173	15.9	146	98	47	0	0	2	2
WA COLVILLE	60	42	68	36	51	-5	1.2	.5	.7	12.2	194	17.6	159	78	43	0	0	3	1
QUILLAYUTE	57	31	65	25	44	-1	.2	0	.1	4.4	191	9.4	168	85	44	0	4	2	0
SEATTLE-TACOMA	60	29	68	27	45	-1	.1	1.6	.1	15.7	88	49.7	119	96	38	0	7	2	0
SPOKANE	59	38	68	36	49	1	T	.5	T	4.9	84	16.4	111	87	36	0	0	1	0
WY YAKIMA	55	29	65	24	42	-3	T	.2	T	2.5	104	6.6	106	82	29	0	5	1	0
BECKLEY	62	29	73	26	45	-3	T	.1	T	2.1	263	5.7	197	75	24	0	7	1	0
WV CHARLESTON	61	41	76	32	51	-4	.7	.1	.6	4.0	55	6.0	46	91	52	0	1	3	1
HUNTINGTON	59	42	76	34	51	-4	.9	.1	.5	4.7	68	8.6	69	83	37	0	1	4	1
PARKERSBURG	57	41	69	33	49	-4	1.0	.2	.7	4.0	57	7.3	61	91	48	0	0	3	1
WI GREEN BAY	44	32	57	23	38	-5	1.2	.5	.8	7.1	104	10.9	88	85	47	0	0	5	1
LA CROSSE	43	32	50	23	38	-9	1.0	.3	.7	3.7	86	5.1	96	90	63	0	4	2	0
MADISON	47	31	64	22	39	-5	.6	.1	.3	4.0	111	7.6	131	93	61	0	5	4	1
MILWAUKEE	48	34	62	25	41	-3	.6	.2	.3	8.7	171	11.7	165	89	59	0	3	5	0
WAUSAU	42	30	56	21	36	-6	.8	.1	.4	2.6	63	4.7	81	90	60	0	3	4	0
WY CASPER	42	23	56	9	32	-9	.4	0	.2	3.2	160	4.1	158	86	50	0	6	3	0
CHEYENNE	40	18	52	6	29	-12	.4	.1	.3	4.1	228	4.1	171	89	53	0	7	3	0
LANDER	41	24	54	14	33	-9	1.4	.9	.6	4.5	167	5.1	150	82	49	0	6	3	2
SHERIDAN	49	26	65	14	37	-4	.3	.2	.2	1.0	38	1.3	38	78	39	0	6	2	0
PR SAN JUAN	87	73	89	72	80	1	.1	.7	.1	1.7	35	2.6	81	52	0	0	3	0	0

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

+100 = NORMAL & ACTUAL NEAR THE SAME

National Agricultural Summary

April 11 to 17

HIGHLIGHTS: Wet fields and cool temperatures held fieldwork virtually at a standstill across the eastern half of the Nation. Farmers had less than 2 days suitable for fieldwork, except in the West where growers had up to 5 days to work. Soil moisture was adequate to surplus across the Nation, except in South Texas where conditions were becoming dry. Winter wheat continued in mostly good condition with ample soil moisture. However, cool weather limited growth. Corn planting lagged the average across the South. Plowing was on schedule in the Corn Belt. Sorghum seeding was active in Texas, reaching 60% completion. Cotton producers in the 14 major producing States planted 13% of the crop, 7 points behind average. Rice planting reached 15% completion, half the normal progress. Rain further delayed tobacco transplanting in the Southeast. Limited peanut planting was finished in Georgia and Texas. Vegetable planting activities gradually crept northward but were limited by cool, wet conditions. Southern peach orchards were past peak bloom. Cool temperatures limited pasture growth, prolonging the need for supplemental feeding in some regions. Weather conditions stressed livestock and caused above-normal calf losses in some areas.

SMALL GRAINS...Cool temperatures continued to limit potential winter wheat growth in the major producing States. However, stands continued in mostly good condition. Rain and snow provided additional soil moisture for small grain development from the northern Plains through the Corn Belt, but brought topdressing and spring seeding to a standstill.

Kansas winter wheat was rated good to excellent, with light to moderate disease and greenbug infestations in some areas. Fifteen percent of the acreage was jointed, 10 points behind normal. Oat and barley seedings were on schedule.

Oklahoma wheatfields were in mostly good condition. However, cool weather continued to hamper crop development. Wet fields limited topdressing and weed control in eastern portions of the State.

Rains benefited Texas small grains, but additional moisture is needed in South Texas. The winter wheat crop was in mostly good condition with 9% headed, compared with 15% last year and the 11% average.

Winter wheat remained dormant in some northern-most growing areas of the Nation. Stands which had greened showed little growth due to cooler than normal temperatures.

OTHER CROPS...Wet field conditions stalled fieldwork across the eastern half of the Nation. Plowing was near normal in the Corn Belt but was slower than normal in the Southeast. Corn planting lagged normal by 51 percentage points in South Carolina. Progress ranged from 3% complete in Tennessee to 63% finished in Georgia, 12 and 14 points behind normal, respectively. Some replanting of fields was necessary in the Delta States after previous heavy rains.

Cool, damp conditions caused some replanting of sorghum in portions of Texas. Growers were actively planting in the Blacklands, while producers irrigated fields in South Texas and the Rio Grande Valley. Planting reached 60% completion, the same as the average. Cotton planting in the 14 major producing States was 13% finished, compared with 11% a year earlier and the 20% average. Planting was limited to the Southwest and Georgia. Only New Mexico producers exceeded the average progress for this date.

Early-planted fields in Arizona and Texas were developing well.

Rice producers in the 5 major producing States seeded 15% of their acreage, compare to the 30% average. Seeding was underway in all States. Fourteen percent of the crop had emerged in Texas, and 16% was up in Louisiana.

Tobacco transplanting continued to lag normal in the Southeast. South Carolina growers were 16% finished, compared to the 52% average. Georgia producers were 66% complete, 17 points behind normal. Producers actively seeded and cared for seedbeds in most other areas.

Peanut planting reach 5% completion in Georgia and 10% in Texas. Wet conditions delayed planting in other areas.

FRUITS AND NUTS...Cool temperatures limited peach blooming in Southern States, but buds were swelling as far north as New Jersey. Most orchards were past peak bloom and leafing out in southern areas.

Citrus groves in Florida were in excellent condition as the bloom continued. Valencia oranges picking was active. Most orchards had adequate moisture, however, irrigation was used in some areas.

Texas growers continued harvesting Valencia oranges and grapefruit in the Rio Grande Valley. Peach trees continued to set fruit, and orchards showed limited damage from previous cold temperatures. Pecan trees set leaves and were entering the pre-pollination stage. South Texas orchards were beginning to form catkins.

Arizona Valencia orange and lemon harvesting increased due to an improved market. Other citrus picking was limited. Groves continued in good condition. Dry weather in California aided fruit and nut development, in some areas, loss of young trees from flooding has been extensive. Fungus is still a problem in many areas. Growers sprayed and thinned stone fruit.

VEGETABLES...Rain and cool temperatures continued to stall planting and development of vegetables in the Southeast and northern areas.

Sunny but cool weather prevailed in Florida's vegetable areas. Fieldwork and harvesting was active. Total shipments increased 7% from the previous week. Only snap beans, carrots, Chinese cabbage, and strawberries registered declines.

Texas growers harvested good volumes of carrots and spring onions in the Rio Grande Valley. San Antonio-Winter Garden producers gathered light volumes of cabbage, carrots, and spring onions. Poor weather delayed potato seeding and onion transplanting on the Plains. Cabbage and lettuce made good progress in the Trans-Pecos region.

Lettuce cutting was in full swing in central Arizona and on the increase in Yuma County. Melon planting was complete in western and central areas, stands made good progress. Mixed vegetable planting and harvesting made seasonal progress.

California producers harvested light volumes of artichokes, broccoli, and cauliflower as yields were down. Lettuce cutting neared completion in the desert but continued heavy in the San Joaquin Valley. Tomato planting was active in the Sacramento and San Joaquin Valleys. The south coast strawberry harvest was in full swing.

PASTURES AND LIVESTOCK...Pastures across the South were in fair to good condition with ample soil moisture. However, cool temperatures continued to limit potential growth and to prolong the need for

(continued on p. 15)

CROP PROGRESS

FOR WEEK ENDING APR 17

RICE				COTTON			
	% PLANTED				% PLANTED		
	1983	1982	AVG.		1983	1982	AVG.
ARK	2	11	15	ALA	0	6	17
CALIF	2	0	5	ARIZ	50	50	61
LA	21	52	54	ARK	0	1	3
MISS	4	27	30	CALIF	50	10	62
TEX	66	73	74	GA	10	11	23
5 STATES	15	27	30	LA	0	2	6
				MISS	0	1	5
				MO	0	0	1
				N MEX	14	14	9
				N C	0	5	3
				OKLA	0	0	0
				S C	0	9	23
				TENN	0	3	4
				TEX	9	14	15
				14 STATES	13	11	20

THESE 5 STATES PRODUCED 98%
OF THE 1982 RICE CROP.

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

State Summaries of Weather and Agriculture

These summaries provide brief descriptions of crop and weather conditions important on a national scale. More detailed data are available in Weather and Crop Bulletins published each Monday by SRS State Offices in cooperation with the National Weather Service.

ALABAMA: Rainfall 1.00 to 2.00 in. range, higher amounts northwest. Air and soil temperatures 5 to 10° below normal.

Corn planted 31%, 1982 63%, average 47%. Cotton planted 0%, 1982 6%, average 17%. Wheat heading 13%, 1982 24%. Activities: Planting corn and some vegetables, spraying fruit trees, seed bed preparation, care of livestock and poultry. Conditions: Livestock and pastures, fair to good; wheat, mostly good; pasture feed and stored feed, short to adequate; plowing 35%.

ARIZONA: Weather dominated by upper air disturbance during first half week which brought unseasonably cold temperatures, scattered showers. Heaviest precipitation occurred White Mountains, Mogollon Rim with amounts around 0.33 in. By week's end weather disturbance moved east, skies mostly sunny, temperatures near seasonal normals or slightly above. Temperatures averaged 3 to 11° below normal.

Wheat, barley made good progress, harvest about month away. Yuma, Santa Cruz Counties earlier planted fields beginning to turn color. Remaining acreage mostly reached heading stage, limited amount jointing stage. Farmers irrigating, applying herbicides, insecticides as needed. Strong, persistent winds west cause some lodging. Alfalfa haying activities increased, Yuma County cutting, baling hay large scale. Elsewhere growers mostly underway with first cutting. Insect controls applied Statewide. Greenlee County reported some freeze damage to alfalfa. Corn, sorghum pre-plant activities continued southeast, Yuma County. Earlier planted fields Yuma County had plants emerging, establishing stands. Safflower made average progress. Cotton growers planting on full-scale basis, approximately 50% crop in ground, same as year ago, slightly behind historic average 61%. Cold weather has held up many growers in Cochise, Graham, Pima Counties. Central, western areas planting full swing as warm temperatures made excellent working conditions.

Earlier planted cotton fields Yuma County had stands established. Growers irrigating, applying weed controls. Spring lettuce harvest full swing central areas, on increase Pima County, nearing completion Yuma County. Limited cutting cauliflower continued Yuma County. Planting 1983 melon crop complete wester, central areas, earlier planted stands made good progress. Mixed vegetable planting, harvesting made normal seasonal progress Salt River Valley areas. Slightly improved market Valencia oranges, lemons increased harvest activities. Movement for remaining citrus varieties limited due to weak market conditions. Citrus groves good condition.

ARKANSAS: Cool week, temperatures ranged from -4 to -10° below normal. Precipitation mostly 0.50 to 1.50 in. Highest mean 59°, lowest 49°. Most rainfall 2.23 in. least 0.15 in.

Wet fields delayed field preparation. Days favorable for fieldwork: 3.00. Soil moisture surplus to adequate. Cotton planted none, below 5% 1982 and average. Rice planted 2%, 11% 1982, 15% average. Soybeans planted none, same as 1982 and normal. Winter wheat good condition north, fair south, 5% headed. Oats good condition. Frost on 14th damaged some strawberry and peach blossoms. Pasture slow to grow. Cattle fair to good.

CALIFORNIA: Below average temperatures continue to be predominant in all districts. The South Coast District mean temperature was 3° below normal while the remaining districts were from 5 to 7° below normal. Showery, springtime type precipitation throughout the period kept rainfall amounts near normal. Huntington Lake recorded 1.00 in. for the week as the San Joaquin and Sacramento Valleys received most of the State's rainfall. Long range forecasts indicate a continuation of the cool, showery type conditions.

Grain fields show excellent growth. Winter wheat heads out Sacramento Valley. Oats cut for hay. Mature alfalfa cut, baled, alfalfa weevil

control. San Joaquin Valley barley irrigated. Spring sugarbeets planted. Rice stubble burned, ground prepared. Cotton planting gains momentum. Dry weather is getting conditions more back to normal, but there is still increased incidence of fungus and drowned trees (mostly young trees). Field preparation, planting vegetable crops increased as field conditions improved. Artichoke supplies light to moderate, yields down. Asparagus harvest nearly complete Desert, cutting slow Delta. Broccoli supplies light to moderate Central Coast, yields down. Carrot harvest Desert slowed by market conditions. Cauliflower supplies light Central Coast, yields down sharply. Celery harvest moderate South Coast. Lettuce harvest complete Desert, fairly heavy San Joaquin Valley. Grading Desert onions expected April 25. Harvest freezer peas to start shortly San Joaquin Valley. Strawberry harvest full swing South Coast. Ground preparation active for planting sweetpotatoes. Planting market tomatoes northern San Joaquin Valley. Planting processing tomatoes increased Sacramento, northern San Joaquin Valleys, Central Coast. Range grasses showing good growth warmer weather. Livestock making good gains improved grass conditions. Sheep shearing about complete San Joaquin Valley, beginning northern districts.

COLORADO: Rain and snow showers 11th through 14th. Precipitation from 0.10 in. in northeast up to 1.65 in. in south. Dry throughout State from 15th to 17th. Average temperatures for period 8 to 10° below normal.

Winter wheat excellent condition Statewide; crop just beginning to joint in early areas. Small grain and row crop seedings continue behind normal due to wet soils. Corn seeding not yet started, barley: 32% seeded, 12% emerged; last year, 67% seeded; five-year average, 34%. Spring wheat: 19% seeded, slightly behind normal. Oats: 17% seeded; last year, 52%; five-year average, 34%. Only 0.5 days suitable for fieldwork. Topsoil and subsoil moisture; Adequate to surplus. Range and pasture condition: Fair, but greening rapidly. Livestock in good condition: Cows calved, 70%; ewes lambing, 73%.

FLORIDA: A cold front which moved into the Panhandle late on the 14th, into the Peninsula, 15th, spoiled a generally fair, dry week. Rainfall amounts of 1.00 to 2.00 in. common Panhandle, extreme north; rainfall 0.25 to 0.50 in. elsewhere except little or none along west coast. Locally heavy rains along lower east coast morning of 15th, excess of 3.00 in. in spots near Homestead. Skies became clear weekend as unseasonably cool, very dry air spread over State. Temperatures dropped to mid, upper 30's portions of extreme north morning of 17th with some patchy frost. Temperatures averaged 4 to 8° below normal.

Soil moisture variable, excessive low, poorly drained areas, adequate high, well drained land. Corn, peanut planting slow. Corn planting behind schedule. Soybean land being prepared for planting, progress very slow. Tobacco needs warmer weather. Wheat mostly headed. Sugarcane mostly good condition. Pastures in fair to good condition across the State. Some flooding in low areas in the north and Panhandle extending to some central localities. Cattle in mostly fair to good condition State-wide. Citrus grove condition excellent. Soil moisture adequate most areas, however, some irrigation first of last week. Rain on the 15th, most areas citrus belt. Open bloom continues, much petal drop. Current Valencias holding well with harvest active. Mostly mild, sunny weather prevailed in vegetable areas. Temperatures averaged below normal. A front in late week brought showers. Rainfall mostly light to

moderate but locally heavy in Homestead area. Harvest, fieldwork active. Weather beneficial to crop progress. Volume unchanged to higher for most crops. Total shipments increased 7% from previous week. Harvest increased cauliflower, sweet corn, cucumbers, eggplant, lettuce, parsley, peppers and tomatoes. Supplies about steady cabbage, celery, escarole, okra, potatoes, radishes, Southern peas and squash. Volume declined snap beans, carrots, Chinese cabbage and strawberries. Harvest of strawberries past peak. Very light harvest of watermelons expected this week but no volume until May 1.

GEORGIA: Weekly rainfall between 2.00 and 3.00 in. Average temperatures for the week ranged from mid-50's in northeast mountains to mid-60's south. Average ranged from 2 to 3° below normal to 1° above normal. Showers ended southeast early 15th with additional 0.25 to 0.50 in. Much cooler on 16th. A little warmer 17th with dry weather both days. Temperatures near 10° below normal Statewide.

Soil moisture 76% adequate, 22% surplus. Fieldwork: Only 2.0 days suitable upper 2/3 of State; 4 days, southern 1/3. Planting and plowing still delayed in northern and central sections. Corn 63% planted, 87% last year, 77% average; condition 13% poor, 65% fair, 22% good. Cotton 10% planted, 11% last year, 23% average; condition 17% poor, 66% fair, 17% good. Peanuts 5% planted, 7% last year, 10% average; condition 14% poor, 72% fair, 14% good. Tobacco 66% transplanted, 97% last year, 83% average; condition 6% poor, 76% fair, 18% good. Watermelons 69% planted, 84% last year, 78% average; condition 20% poor, 63% fair, 17% good. Wheat 93% jointing, 66% boot, 41% headed; condition 5% poor, 51% fair, 43% good. Rye 49% fair, 46% good. Other small grains 49% fair, 49% good. Grain sorghum 4% planted, 11% last year, 9% average; condition 18% poor, 64% fair, 18% good. Apples 69% in bloom; condition 21% fair, 73% good. Peach condition 54% fair, 40% good. Spraying apples, peaches and pecans. Pastures 3% poor, 26% fair, 64% good, 6% excellent.

HAWAII: Weather generally cool with increasing rainfall towards week's end benefitting major crop areas not under irrigation. Condition of banana and papaya orchards on Hawaii Island improved with the additional rainfall. Supplies most vegetables adequate. Leafy vegetables still in abundant supply. Sugar and pineapple harvesting continue to gain momentum.

IDAHO: The weather across the State was dominated by the influence of a ridge of high pressure over the Pacific Northwest. There was sufficient moisture in the air mass the first part of the week to allow some afternoon showers to occur. As the ridge persisted, the air mass dried and skies became mostly clear. Temperatures across the State remained well below normal for the period but were beginning to approach normal by the end of the week. Precipitation totals varied from 0.05 in. below average at Parma to 0.28 in. below normal at Moscow. Malad was the only location to report above average rainfall.

The weather cooperated with farmers. Spring wheat seeded advanced to 34% compared to 17% in 1982 and 34% average. Barley at 29% seeded was in front of last year's 13% but still behind the average 26%. Sugarbeets progressed to 38% planted, 11 points ahead of the previous year and just 4 points behind average. Onions and dry peas reached 55 and 9% planted, respectively. Potatoes at 18% were 6 points ahead of 1982. Winter wheat ranged from good to excellent condition. Feed supplies were adequate.

ILLINOIS: Temperatures averaged 5 to 10° below normal, lows below freezing during the weekend. Precipitation moderate to heavy ranging from 0.33 in. to over 2.00 in., heaviest in the east central.

Soil moisture 5% adequate, 95% surplus. Days suitable for fieldwork 0. Cool, wet conditions delayed all farming activities. Oats 17% seeded, last year 36%, normal 41%. Tillage for corn and soybean acres 73% complete, last year 72%, normal 75%. Pasture supplying 25% livestock roughage requirements. Winter wheat condition 9% excellent, 66% good, 25% fair. Alfalfa and pastures in mostly good condition. Livestock in fair condition-hampered by muddy pastures and lots.

INDIANA: Fieldwork averaged 0 days. Topsoil moisture surplus. Subsoil moisture adequate to mostly surplus. Spring cropland 65% tilled, 1982 55%, average 65%. Oats 40% seeded, 1982 15%, average 40%. Clover 60% seeded, 1982 50%, average 75%. Wheat good condition. Wheat 6 in. tall, 1982 4 in., average 5 in. Wheat 20% jointed, 1982 8%, average 10%.

IOWA: A cold wet week with late season snows. Soils saturated and mud abundant. Stream flows continue high with localized flooding, mostly minor. Temperatures averaged 11 to 12° sub-normal. Heavy snow at the weekend in an 80 mile wide belt from Spencer through Des Moines to Keosauqua was reported. The largest on record so late in the season at Des Moines. Daily record low temperatures were reported the morning of the 17th and 18th. On the morning of the 18th Des Moines reported their coldest of record (20°) so late in the season. Moderate to heavy snow also fell at mid week (13th-14th) over the northwest half of State.

KANSAS: Precipitation averaged less than 0.10 in. southwestern district, 0.25 to 0.50 in. eastern and northern districts. Temperatures averaged 44 to 47° four northwestern districts, 48 to 52° east and south, ranging 5 to 9° below normal.

Wheat condition good to excellent. Wheat acreage 15% in or past jointing stage, 35% last year, 25% average. Some light wind damage. Light greenbug infestations southern districts. Light to severe disease infestations of soil-borne mosaic, speckled leaf blotch and tan spot. Oats acreage seeded 75%, 90% last year, 75% average. Barley acreage seeded 80%, 70% last year, 80% average.

KENTUCKY: Temperatures near normal beginning of week, but several degrees below normal by weekend. Heavy frost and light freeze morning of 16th. Rainfall averaged 1.60 in. in west, 0.50 to 1.00 in. remainder.

Fieldwork at standstill due to wet conditions. Soil moisture 63% surplus, 35% adequate, 2% short. Minimal tobacco plant bed seeding accomplished. Beds 87% seeded, 93% last year. Plants up in 47% of seeded beds. Corn planting will begin in earnest when soil dries. Leaf diseases in winter wheat prevalent. Apple trees 65% budding or in bloom. Pastures good condition.

LOUISIANA: Rainfall 0.10 to 3.20 in. north, 1.00 to 1.80 in. central, 0.30 to 2.10 in. south. Temperatures ranged 6 to 10° below normal Statewide. High 84°, low 32°.

Soil moisture adequate to surplus. Days suitable 1.4. Spring plowing 52%, 76% 1982. Corn planted 49%; 78% 1982; 66% average. Corn emerged 44%, 67% 1982, 49% average. Some farmers replanting. Condition fair. Rice

planted 21%, 52% 1982, 54% average. Rice emerged 16%, 37% 1982, 41% average. Condition poor to fair. Watermold and black birds continue affecting stands. Sorghum planted 8%, 25% 1982, sorghum emerged 1%, 12% 1982. Wheat headed 24%, 62% 1982, 42% average. Wheat turning color 2%, 7% 1982, condition fair. Sugarcane rated fair to good. Vegetables continue poor to fair. Pastures and livestock rated fair to good.

MARYLAND AND DELAWARE: Temperatures averaged 1° below normal west of Hancock to 2 to 4° below normal elsewhere. High temperatures were in the mid 50's to low 60's in western Maryland and the mid 60's to low 70's elsewhere. Miniums were in the high 20's to mid 30's in western Maryland and in the mid 30's to low 40's in the rest of the two State area. Precipitation averaged nearly 1.50 in. in western Maryland and the lower Eastern Shore and ranged from 2.03 in. at Woodstock to 4.99 in. at Patuxent. Rainfall was near normal in western Maryland, nearly 1.00 above normal on the lower shore, and mostly 2.00 to 4.00 in. above normal elsewhere. The 16th was partly cloudy and windy with scattered showers. Highs were in the mid 50's and lows in the low 40's. The 17th was partly cloudy and slightly cooler. Highs averaged in the mid 50's and lows were in the low 30's.

MICHIGAN: Winter has put another icy grip on State this spring. Below normal average temperatures were the rule across the State. Moderate amounts of rain fell during the early part of the week producing flooding over much of the southern Lower Peninsula. Then just when the rivers were receding towards more normal levels, 4 to 7 in. of snow fell over southeast. The cold wet conditions delayed the beginning of fieldwork this spring.

MINNESOTA: Temperatures averaged 6 to 10° below normal for the State. Extremes: 58° Itasca, St. Cloud and Aitkin and 8° at Duluth. Precipitation average near normal to 0.30 in. below normal for northwest, north central and west central and 0.24 to 1.59 in. above normal elsewhere. Precipitation totals were from 0.06 to 2.54 in. The greatest amount reported at Waseca at 3.00 in. Snowfall ranged from 21 in. to a trace or less. With heaviest accumulations eastern 1/3 of State and south central. Snow depth at weeks end ranged from 0 to 10 in. eastern 1/3 of State and south central - 0 to 2 in. south west - and trace or less elsewhere.

MISSISSIPPI: Temperatures 9 to 13° below normal. Extremes 26 and 83°. Rain across entire State on 13th and 14th. Amounts of 2.00 to 4.00 in. were common. Greatest amount 5.03 in.

Soil moisture excessive to surplus. Fieldwork: 1.5 days suitable, 4.0 last year and average. Corn 22% planted, 55% last year, 48% average. Rice 4% planted, 27% last year, 30% average. Cotton 0% planted, 1% last year, 5% average. Winter wheat 78% jointing, 14% headed; condition fair to good. Pasture and livestock condition fair to good.

MISSOURI: Temperatures averaged 7 to 10° below normal. Warmer temperatures in southern part of State. Precipitation averaged less than 0.50 in. for the western 3/4 of State, and the Bootheel received an average of 2.00 in. Flooding continues along major rivers.

Wet fields and cool temperatures have held fieldwork virtually at a standstill.

MONTANA: Temperatures averaged 2 to 7° below normal. Coolest the first of the week with

warming by the weekend. Cold nights. Precipitation mostly light with scattered areas of moderate to heavy amounts across the South.

Winter wheat condition good. Crop greening with some growth started. Soil moisture mostly adequate. Nearly 5.0 days suitable for fieldwork. Planting progress: Spring wheat 7%--normal 19%; barley 10%--normal 19%; sugarbeets 10%--normal 33%; oats 3%--normal 16%. Calving 75% complete--about normal. Lambing 65% complete--normal 70%. Ranges mostly dormant. Stock water supplies generally adequate.

NEBRASKA: Rain and snow widespread at mid-week. Amounts ranged from 0.50 to 2.00 in. Temperatures 7 to 12° below normal.

Winter wheat good. Oat seeding 7%, 55% normal. Major oat producing areas less than 1% seeded. Sugarbeet planting active where soil conditions permit. Less than 1.0 day suitable for fieldwork. Topsoil moisture mostly surplus to adequate. Subsoil supplies surplus to adequate. Scours and respiratory problems in young calves due to cold and wet conditions. Death losses above normal. Warm, drying weather badly needed.

NEVADA: Unseasonably low temperatures early in week moderating to near normal by end of period. Precipitation, including snow, widespread but greatest south central. Minimum temperatures ranged from 15 to 50°. Sunny skies end of week represented first relatively pleasant weekend this spring.

Inclement weather early in period slowed beginning alfalfa hay harvest extreme south. Ranges benefited from additional precipitation. Livestock continued to move to summer ranges south.

NEW ENGLAND: Wet cool weather prevailed across New England during the week. Heavy rains fell at the beginning of the week and again at the very end. Rainfall totals averaged 2.00 to 3.00 in. over most areas.

It was a generally cool week with the average temperature running about 2 to 4° below normal. The average temperature for the week ranged from 30° over far northern Maine to 47° over southern Connecticut. Most areas of northern New England had at least one frost during the week.

NEW JERSEY: Temperatures averaged 5° below normal. Extremes 24° at Toms River on the 18th and 67° at Bridgeton on the 16th. Weekly rainfall averaged 3.62 in. north, 2.23 in. central and 2.34 in. south. The heaviest 24-hour total 3.05 in. at Long Valley on the 15th to 16th. Estimated soil moisture, in percent of field capacity, averaged 99% north, 98% central and 98% south. Four in. soil temperatures averaged 46° north, 49° central and 51° south. Fieldwork behind normal due to wet conditions.

NEW MEXICO: Average temperatures between 5 to 10° below normal. Warming by weeks end. Precipitation limited - north and west. Amounts generally less than 0.20 in. Low 8° northern mountains. High 82° both southeastern Plains and southern Desert.

Cotton planted - 14%. Alfalfa fair-good. Irrigated wheat, barley good condition. Dryland wheat fair-good, 35% irrigated wheat jointed; 25% dry wheat jointed; 55% barley jointed. Corn planting starts next week. Lettuce, onions good condition Mesilla Valley. Chile peppers 80% planted-some emergence. Cattle, sheep fair-good. Ranges fair, slow development.

NEW YORK: No report received.

NORTH CAROLINA: Temperature 2 to 4° below normal central and eastern portion of State,

1 to 2° above normal along the Coast. Precipitation heavy Statewide.

Soil moisture: 26% adequate and 74% surplus. Days suitable for fieldwork: 2.8. Condition: Small grains mostly good. Tobacco plant beds: 2% poor, 48% fair, 50% good. Irish potatoes: 6% poor, 56% fair and 38% good. Peaches: 9% poor, 27% fair and 64% good. Pasture: 23% fair, 65% good and 12% excellent. Truck crops: 7% poor, 54% fair and 39% good. Planted: Corn 9%, 54% last year, 50% average. Irish potatoes: 68%, 100% last year, 88% average. Major farm activities: Tending tobacco beds, top dressing small grains, corn planting, equipment repair, planting potatoes and land preparation.

NORTH DAKOTA: On April 12 and 13 a major winter storm brought winter-like temperatures to the State. Temperatures for the week averaged 7 to 10° below normal. Extremes ranged from 60° northwest 10th to 9° on 13th and 14th. Precipitation averaged 0.05 to 0.14 in. below normal north and near normal to 0.18 in. above normal south. A band of heavy snow of 4 to 6 in. fell from the southwest through north central sections on 12th and 13th.

Cool wet weather keeping farmers out of the fields. Expected average starting date for fieldwork now April 27, the same as last year but later than normal. Warm drying weather needed. Soil moisture supplies at least adequate over entire State and too wet for field operations. Outlook promising except for delays in planting. Virtually no small grain seeding yet. Averages hard red spring 6%, durum 2%, oats 4%, and barley 5%. Winter wheat and rye in mostly good condition but most acreage is still dormant. Also needs warm sunny weather as does pastureland.

OHIO: Temperatures averaged well below seasonal levels. Northern third averaged 3 to 5° cooler than usual. Central and southern sections averaged 5 to 8° below normal. Mid day readings especially cool because of extensive cloud cover, gusty winds, and frequent showers. Temperature extremes wide, from mid day readings in 60s north to lower 70s south; morning lows into 20s north, near 30° south. Precipitation widespread and heavy. Weekly totals averaged over 1.00 in. across west and east. Central third averaged from 0.50 to 0.75 in. Four in. bare soil temperatures average middle 40s, overnight readings into upper 30s. Little warmup is likely in next 10 days.

Little fieldwork due to wet, cool weather. Activities included repairing machinery, cleaning and treating seed, hauling manure, buying seed and fertilizer, caring for livestock, marking PIK acreages, some planting of spring crops and pruning apple trees. Winter wheat in good condition although some leaf burn and standing water damage reports received. Cold weather may benefit wheat by slowing growth, and knocking back disease development. Days suitable for fieldwork 2.0. Soil moisture mostly surplus. Pasture condition good.

OKLAHOMA: Temperatures ranged from 7° below normal Panhandle to 9° below normal west central. Precipitation ranged from 0.06 in. north central to 0.87 in. east central.

Prolonged cool weather continued to delay growth and development of small grain crops. Warm, dry weather during weekend may accelerate plant progress. Wheat in good condition. Livestock and pastures in good to fair condition. Forage made limited growth due to cool weather. Supplemental feeding active in most areas.

OREGON: Rainfall beginning of week left 1.20 in. along coast; less than 0.70 in. in western valleys; less than 0.40 in. elsewhere. Rest of week was

sunny and dry. Temperatures varied 1° below normal along coast to 7° below in eastern portions.

Fieldwork in full swing with open weather. Winter wheat fair to good in west and improving; good to excellent in east; last fields being sprayed and fertilized. Cultivation and spring planting active. Mint, alfalfa and grass hays growing well. Tansy spraying continues. Frost control measures used in orchards in Hood River area. Most fruit trees in full bloom or past as sprays continue to be applied. Caneberry and strawberry fields being cultivated and sprayed. Filbert leaf roller sprays going on. Early potatoes emerged; fall crop being seeded. Onion seeding continues in Malheur County; Willamette Valley fields being prepared for seeding. Asparagus harvest underway but slowed from cold nights. Broccoli and green peas being planted. Harvest of radishes, spinach, mustard, parsley and rhubarb underway. Livestock good shape. Calving and lambing about complete. Pastures have good growth but still soft. Range prospects good to excellent.

PENNSYLVANIA: Another cold and wet week and wet weekend. Temperatures were rather cool at the beginning and end of the week with a slight moderation during mid-week. State average temperature was 4° below the normal of 48°. Extremes 67 and 16°. Precipitation was very heavy for the week with the average being 2.02 in. Rainfall amounts of about 5 in. were reported in portions of the Poconos and upper Susquehanna Valley. Elsewhere amounts ranged from around 1.00 to 3.50 in.

PUERTO RICO: Island average rainfall 0.54 in. or 0.39 in. below normal. Highest weekly total 2.66 in. Highest 24-hour total 2.44 in. Temperatures averaged about 78 to 76° on Coasts and 73 to 69° Interior Divisions. Mean station temperatures ranged from 80.3 to 63.9°. Extremes 92 and 51°.

SOUTH CAROLINA: Temperatures ranged from mild near midweek to much colder over the weekend. Lowest temperatures 17th morning mostly in 30's with scattered frost except few locations extreme northwest dropped into upper 20's. Moderate rainfall Statewide later in week; tapering off somewhat except upper Coastal Plains where heaviest.

Soil moisture ranged adequate to surplus, averaging surplus; 2.5 working days. Acreage plowed reached 26%. Corn planting progress rapid where fields could be worked, only 25% planted with deadlines approaching, 86% last year, 76% average; conditions fair. Cotton fields too wet and cool; 0% planted behind 9% 1982 and 23% average. No peanuts planted, trailing 1982's 9%, 12% average. Tobacco beds were looking yellow until producers helped with nitrogen, epsom salts. Good plants in short supply since some getting too large. Transplants fair to good condition; 16% planted, 45% last year, 52% average. Peach growers spraying frequently to ward off potential diseases; conditions good although cold poses threat to Piedmont growers. Apples blooming under cold threat, look good to date. Tomatoes responded well to warm, drying conditions and now appear good. Small grains fair to good condition, wheat 9% headed, 32% last year, 41% average.

SOUTH DAKOTA: Temperatures averaged 6 to 12° below normal. Extremes: 65 and -5°, except extreme southwest, both snow and rain evenly spread over State. Moisture accumulation 2.52 in. Black Hills to 2.10 in. southeast. Southwest corner only a trace. Yearly precipitation above normal most of State; extremes 3.93 in. above southeast and 1.16 in. below Black Hills.

Little to no fieldwork reported throughout State due to wet fields.

TENNESSEE: Farmers had 1.0 day for fieldwork. Soil moisture 24% adequate, 76% surplus. Corn planted 3%, 1982 12%, average 15%. Cotton planted 0%, 1982 3%, average 4%. Tobacco beds seeded 95%, 1982 96%, average 93%. Wheat in good condition. Pastures fair to good. Cattle good. Fruit trees budding or in bloom 77%. Vegetable planting delayed by rains.

TEXAS: Very dry week. Storm system early week produced light rain over East Texas. Temperatures between 5 and 10° below normal.

Crops: Fieldwork made good progress. Open weather allowed producers opportunity to resume planting. Planting getting underway Low Plains. Cotton planting continues to lag behind previous years. Early planted fields Rio Grande Valley, Coast progressing well. Some planting Blacklands, wet fields slowed progress. Sorghum planting, development hampered by poor weather. Cool, damp conditions caused some replanting. Planting active Blacklands. Outlook for earlier planted fields improved. Irrigation South Texas, Rio Grande Valley active. Corn planting moved north into Low Plains. Early planted fields establishing good stands. Rio Grande Valley, high winds, blowing sand caused damage. Wheat, other small grains benefitted from recent rains. Wheat fields mostly in boot stage, some stands heading out south, south central areas. Oats also progressing well. Reported wheat condition 88%, compared with 72% a year ago. By week's end 24% excellent; 52% good; and 24% fair. Rice planting in full swing. Despite heavy activity, planting behind previous year. Sugarbeet planting well underway. Planting behind schedule. Cotton planted 9%, 14% 1982, 15% average. Rice planted 66%, 73% 1982, 74% average. Rice emerged 14%, 43% 1982, 33% average. Sorghum planted all purposes 60%, 62% 1982, 60% average. Wheat headed 9%, 15% 1982, 11% average. Corn planted for all purposes 51%, 59% 1982, 51% average. Peanuts planted 10%, 3% 1982, 7% average. Sugarbeets planted 72%, 91% 1982, 80% average.

Commercial vegetables: Rio Grande Valley, harvest of carrots, spring onions steady, good volumes being shipped. Citrus harvest continued. San Antonio-Winter Garden area, harvest of cabbage, carrots active, volumes light. Harvest of spring onions underway. Trans-Pecos region, cabbage, lettuce developing well. Onions, potatoes received some wind damage. Plains, onion transplanting, potato seeding continued. Recent weather caused planting delays, slowed development. Peach trees continue to set fruit. Damage from recent cold temperatures appears light. Pecan trees continue to develop well. Most trees setting leaves, entering prepollination stage. Catkins beginning to form South Texas.

Range and livestock: Range, pasture conditions remained generally good. South Texas, Rio Grande Valley becoming extremely dry, grazing short. Other areas, grazing good. Unseasonably cool temperatures have prolonged need of supplemental feeding Plains, parts of North Texas. Livestock condition remains good to excellent.

UTAH: Recurring periods precipitation most of State ranging light to heavy. Unseasonably cool temperatures averaged 7° below normal, ranging normal to 11° below.

Fieldwork and spring planting two to four weeks late due to wet fields and cool weather. Some flooding occurring in low lands. More expected when heavy snowpack melts. Calving and lambing losses running high in some areas due to spring storms. Range feed and pastures delayed by cool weather, but should be good this spring. No significant fruit loss so far.

VIRGINIA: Topsoil moisture conditions improve by dropping to 19% adequate and 81% surplus. Days suitable for fieldwork averaged 1.5

but varied greatly by area. Corn seeding progressed during mid-week to 7% complete and 21% last year and 20% average. Potato planting moved ahead a little to 59% complete, 75% 1982 and 90% average. Some sprouting of seed potatoes has been reported. Field activities were light and consisted of spraying, fertilizing, land preparation and seeding on light or well drained soil. Wheat and barley in excellent condition with a few local problems of mildew and aphid. Hay in excellent condition—last cutting waiting on the weather. Alfalfa spraying active in drier areas. Fruit condition very good with little damage by frost to date. Tobacco beds in excellent condition. Some insect damage in south central beds reported. Livestock continue in good condition with animals being moved to the better drained pastures. Livestock marketing activity increasing.

WASHINGTON: Unseasonably cold air covered the State during the first half of the period. Showery type rainfall persisted mid-period with thunder-showers dotting the State. High pressure moved into the State 14th bringing warming and drier air.

Field activity continued to pick up as the soil became easier to work. Wheat and barley in above average condition. Warm weather allowing rapid growth. Stripe rust and barley yellow dwarf virus showing up in Franklin County. Potato planting continues. Some corn planting and asparagus cutting. Normal amount of alfalfa seeding. Good pollination weather, but orchardists still protecting against frost. Apples in pink stage. Apricots, cherries, and pears at or near full bloom. No major frost damage. In western State, strawberries near bloom stage and raspberries making good growth. Some blueberry fields in bloom. Cauliflower harvesting continues. Planting of green peas, potatoes, carrots, and broccoli continues in full swing. Early lettuce seedings up, and field rhubarb harvesting continues in full swing. Cold evening temperatures holding back planting of truck garden vegetables in Thurston County. Livestock in good condition. Hay getting short and stockmen were turning livestock out on pasture where there was good growth. A few areas report frosty weather holding grass growth in

check. Most other areas report improved range and pasture conditions.

WEST VIRGINIA: Temperatures averaged 3° below normal except northeast where they were normal. High 76°, low 25°. Precipitation averaged above normal across the State, 2.54 in. at Petersburg.

Soil moisture surplus to adequate. Days worked averaged 1.5. Hay, grain, and other feed supplies adequate.

WISCONSIN: A change of season summarizes the weather pattern. A cloudy and cool 11th gave way to showers and thunderstorms on 12th as somewhat milder air began to work its way into the State. Rain continued Statewide 13th with temperatures showing a great contrast and ranging from the 30's in the northwest to the 60's northeast. Early 14th rain changed to a heavy, wet snow over northwest with snow amounts of 15 in. Strong gusty winds accompanied the storm system as it intensified and passed over the State. Cold air poured into the State 15th as light snow spread to the eastern sections. A cold high pressure area moved into the region over the weekend and kept temperatures well below April normals. Some light snow also fell across south. The highest temperature was 67° at Oshkosh and West Allis on 13th. The low was 4° above at Park Falls on 17th.

WYOMING: Another major snowstorm brought significant moisture. Lower Platte Drainage received 3.88 in. of water. North central part slightly below normal. Temperatures 4 to 10° below normal.

Topsoil moisture adequate 95% State. Subsoil moisture adequate 94%. Days suitable for fieldwork 1.0. Inclement weather stifled fieldwork. Oats, spring wheat planted 10%. Small amount spring wheat emerged. Barley planted 40%, emerged 5%. Sugarbeets planted 5%. Winter wheat mostly good condition. Livestock mostly good condition. Spring calves born: 60%; last year 80%. Farm flock: Ewes lambled 70%; shorn 65%. Range sheep: Ewes lambled 40%; shorn 40%. Calf, lamb losses light to normal. Some heavy calf losses. Rapidly depleting hay supplies in some areas. Ranges, pastures mostly good condition.

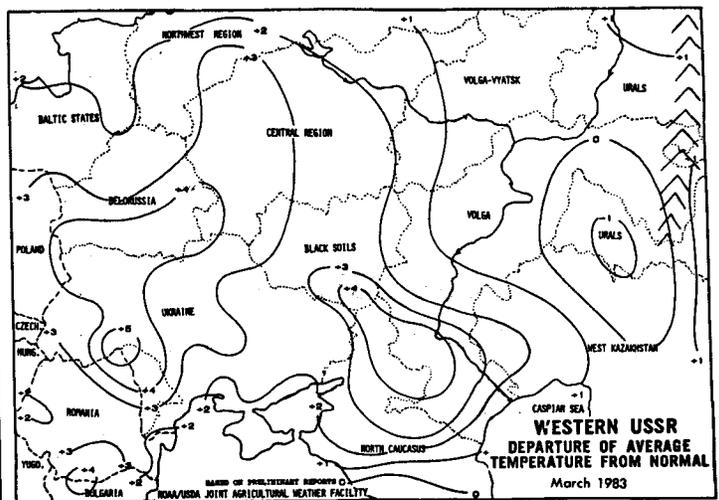
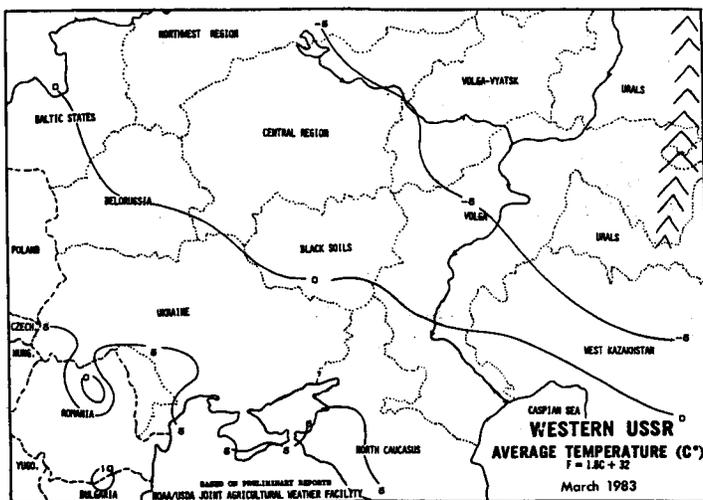
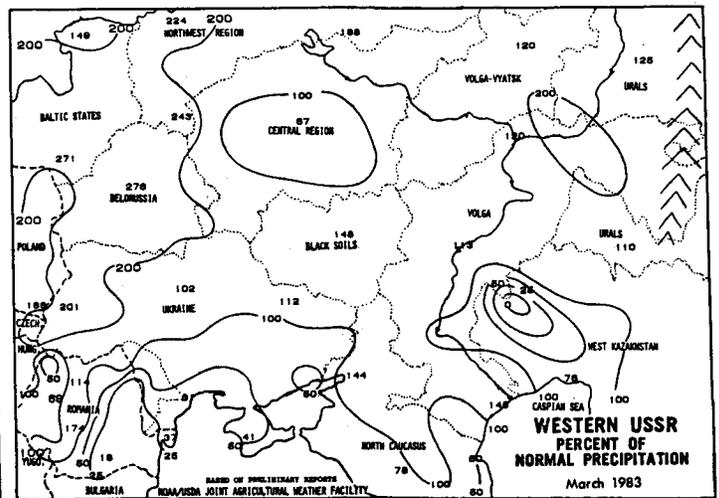
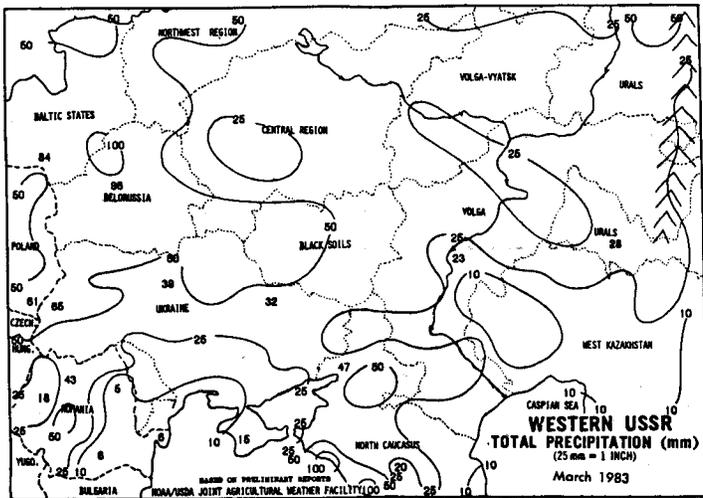
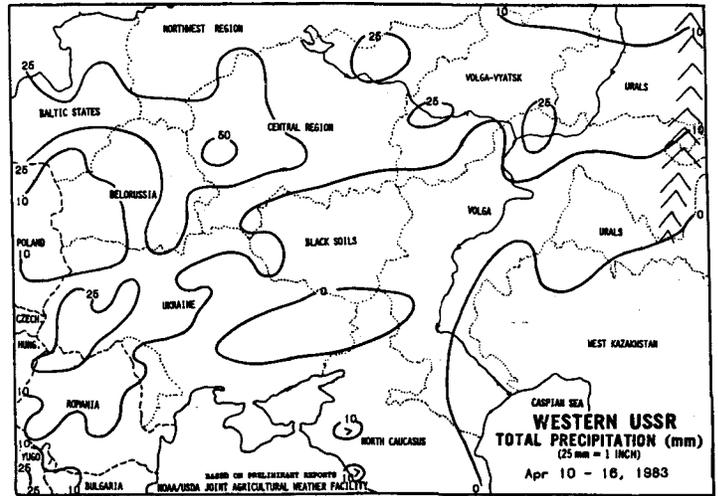
National Weather Summary (continued from front cover)

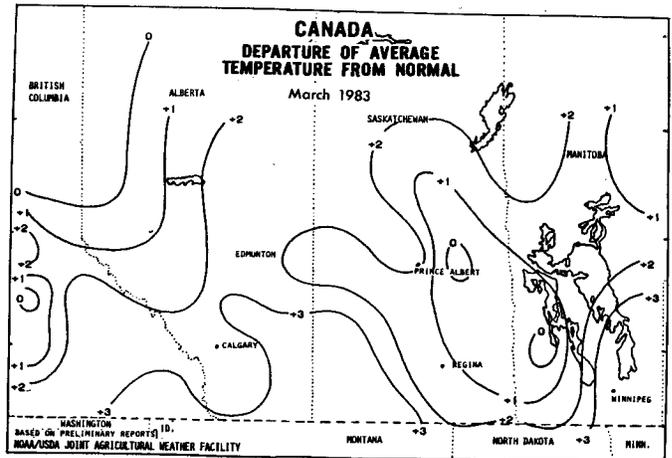
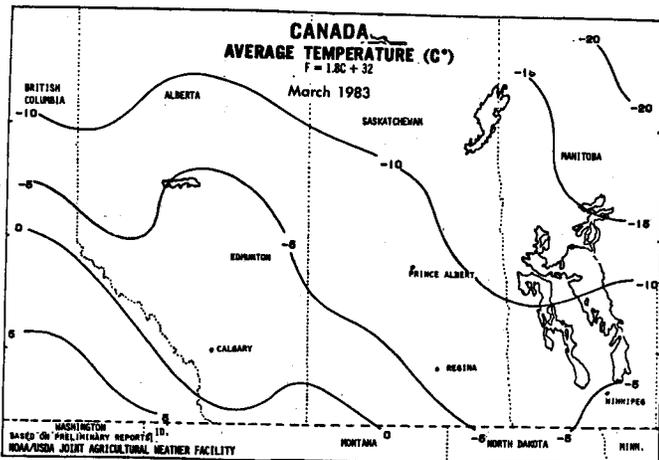
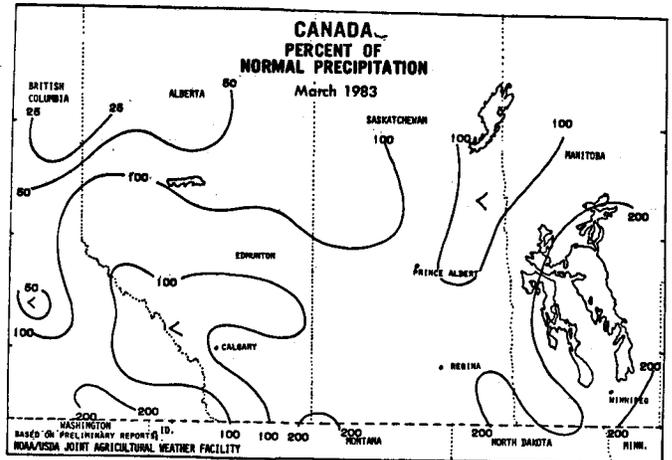
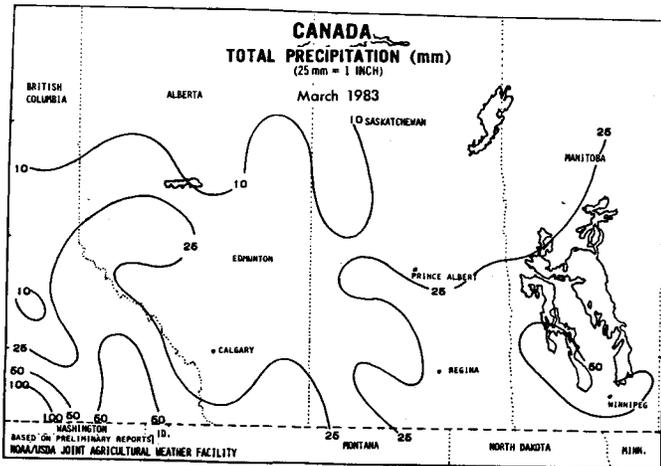
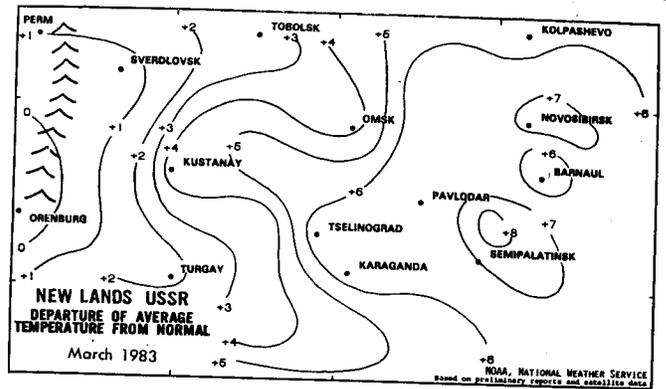
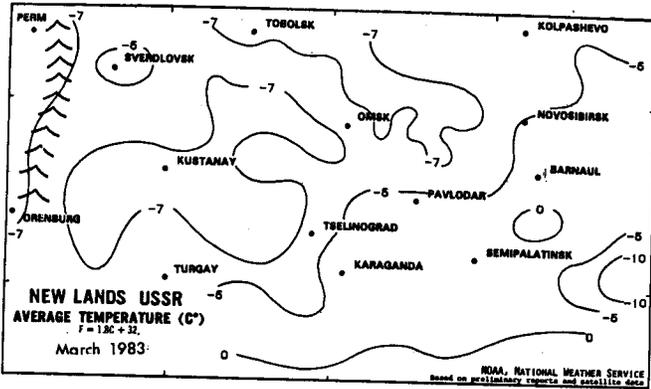
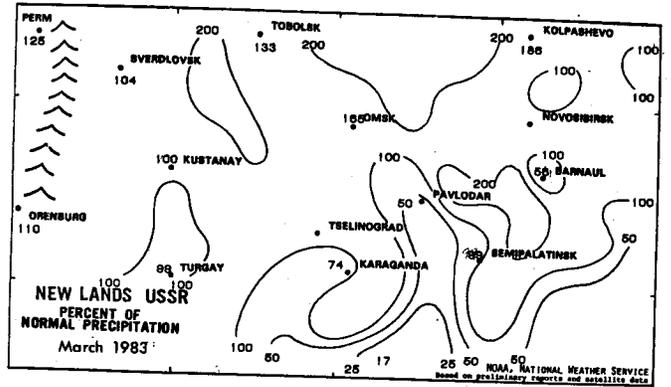
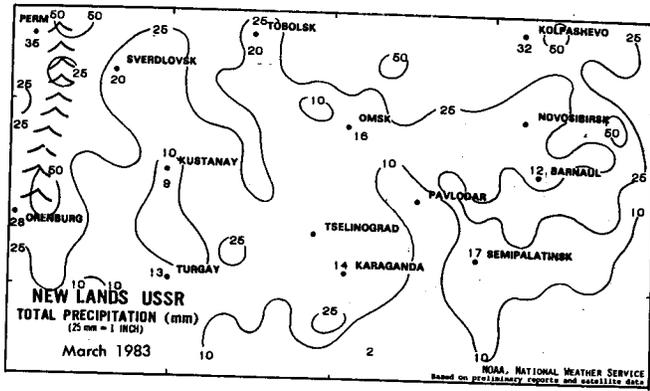
SATURDAY...Moderate to heavy rain continued ahead of the cold front from eastern New York and New Jersey through New England. The rain changed to snow in eastern New York before the day ended. Snow fell in Michigan, the lower Great Lakes States, and from Iowa into the Dakotas. Record-cold temperatures reached into the mid-South, and freezing temperatures reached northern Alabama.

National Agricultural Summary (continued from p. 9)

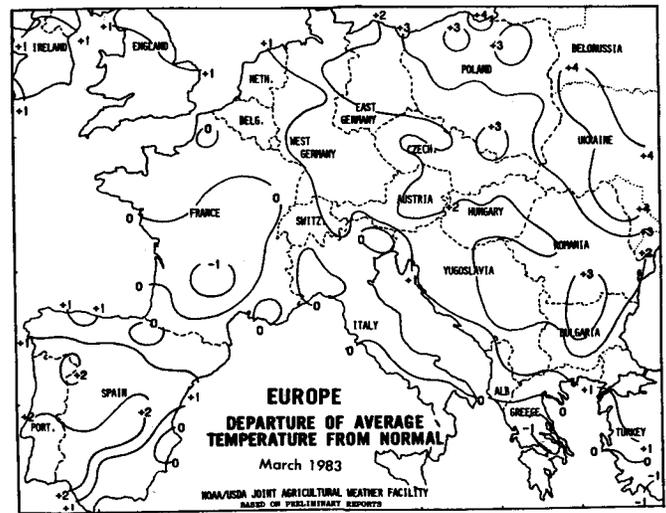
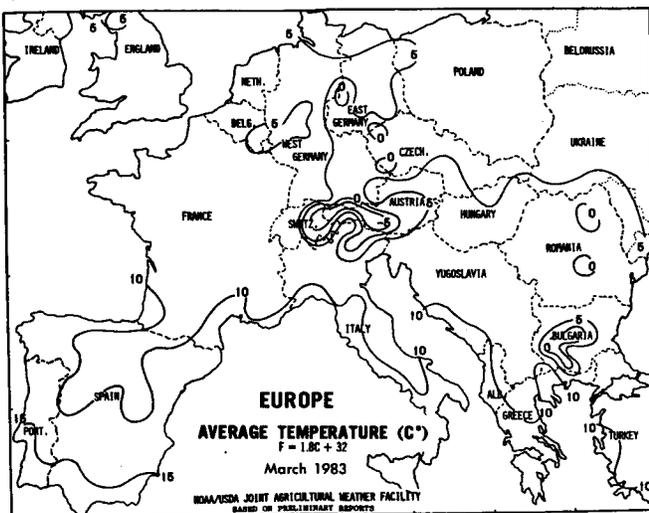
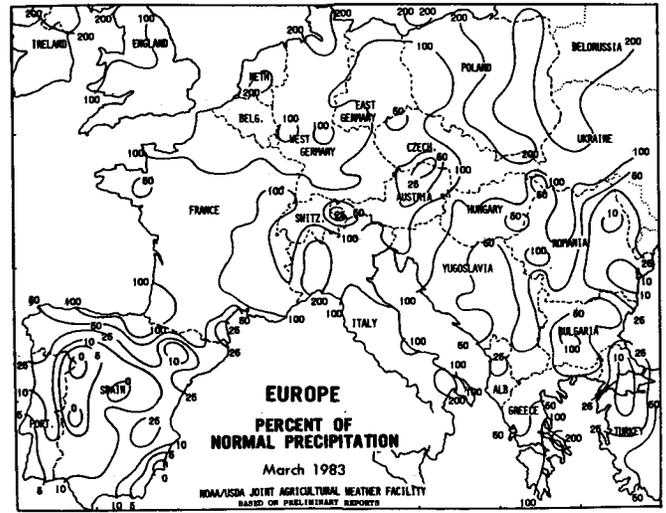
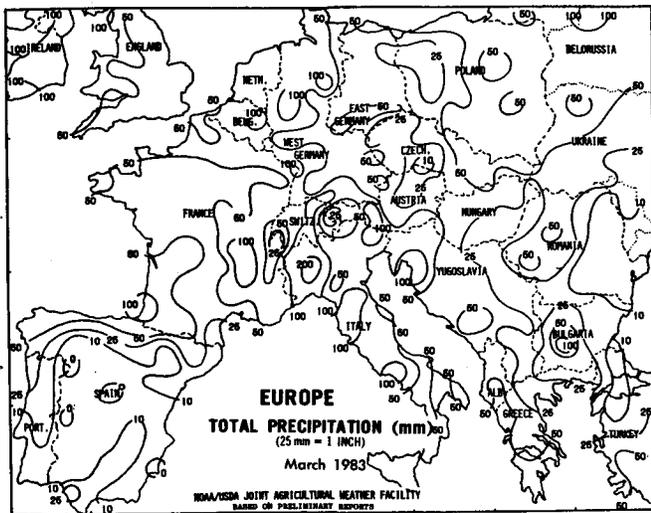
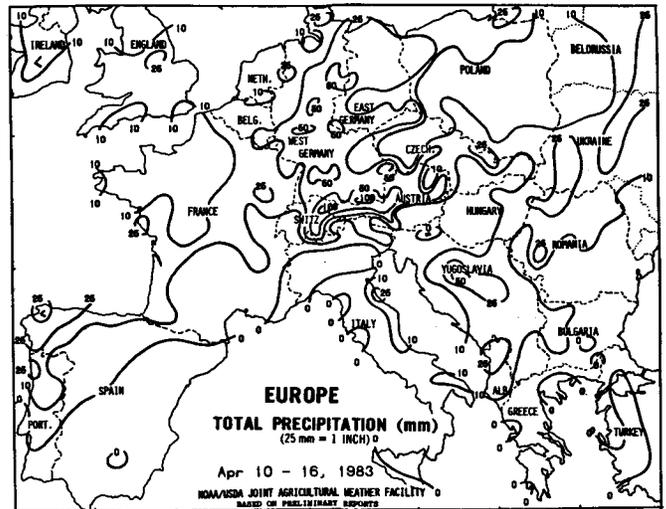
supplemental feeding. Ranges were becoming extremely dry in the Rio Grande Valley and South Texas but were generally good elsewhere in the State. Livestock were in fair to good condition. Continued cool, wet weather caused above-normal death of newborn calves in some areas of the Great Plains.

WESTERN USSR...Wet weather continued to benefit winter grains in the Baltic States, Belorussia, the western Ukraine, the Central Region, and Volga-Vyatsk. Above-normal precipitation benefited most of these same areas in March. In the eastern Ukraine, southern Black Soils, southern Volga Valley, and North Caucasus, above-normal precipitation and cold weather in early March gave way to dry, warm weather which continued through this past week. Extremely dry conditions exist for crops in Moldavia and the south Central Ukraine where cumulative precipitation since last October has been well below normal. During March, warm weather over the entire region diminished snow cover and allowed fieldwork for spring planting to get an early start in the south. In fact, reports indicate sugarbeet, sunflower, and potato planting. The dry pattern which has covered much of the south for the past 6 weeks has prompted some concern as topsoil moisture conditions may be too low for both proper germination of spring crops and growth of winter crops which are in the vegetative stage.

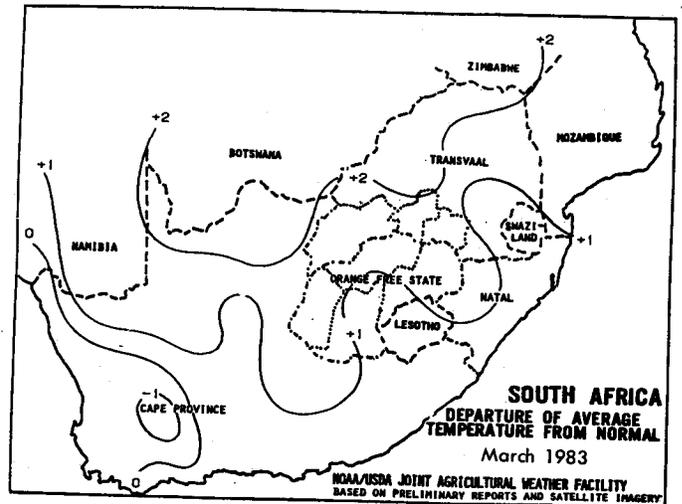
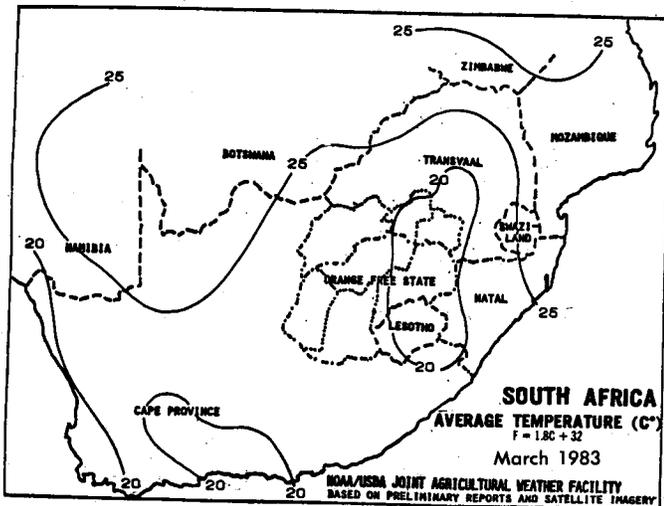
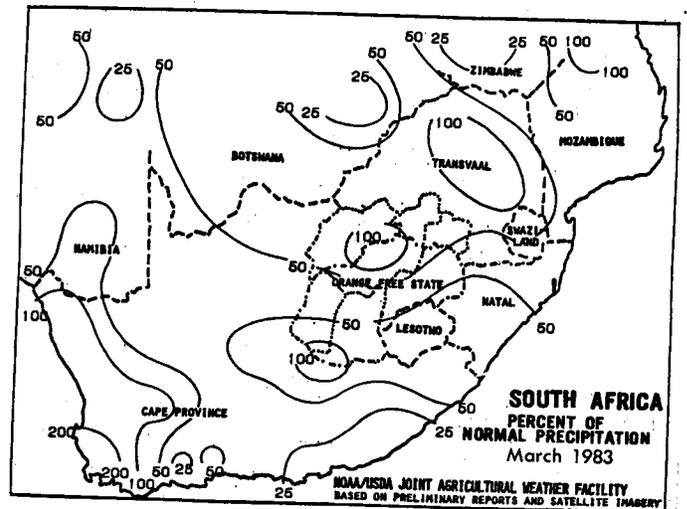
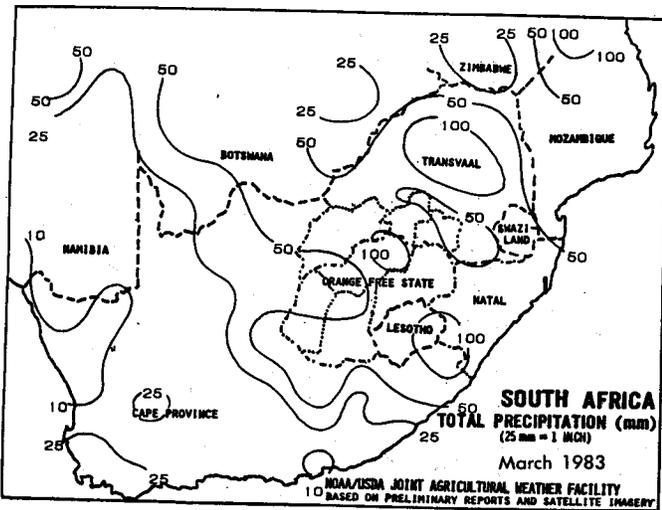
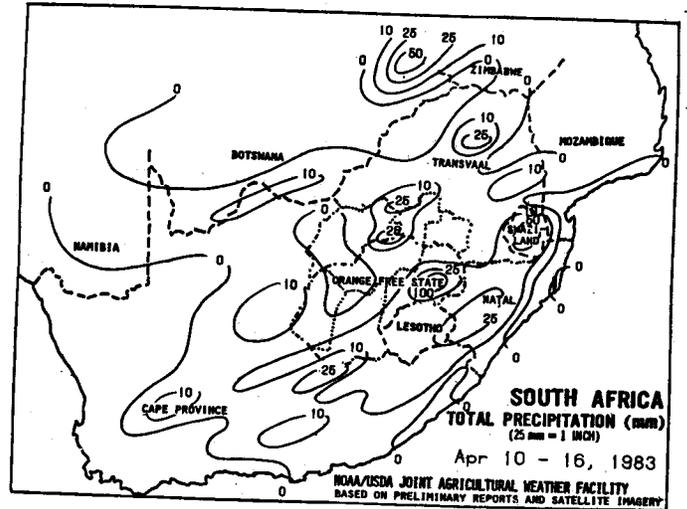




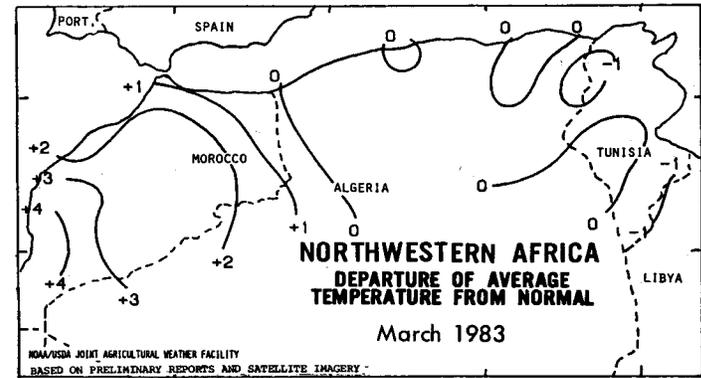
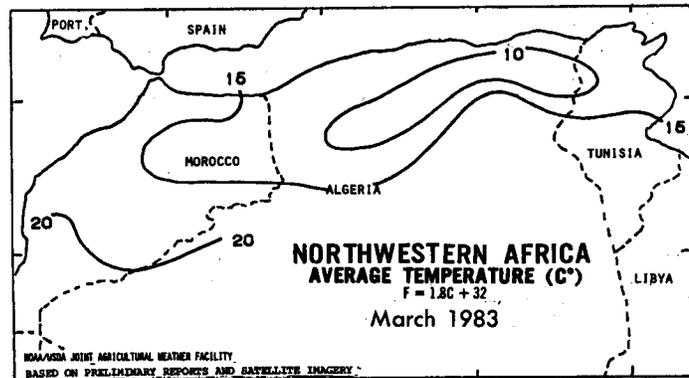
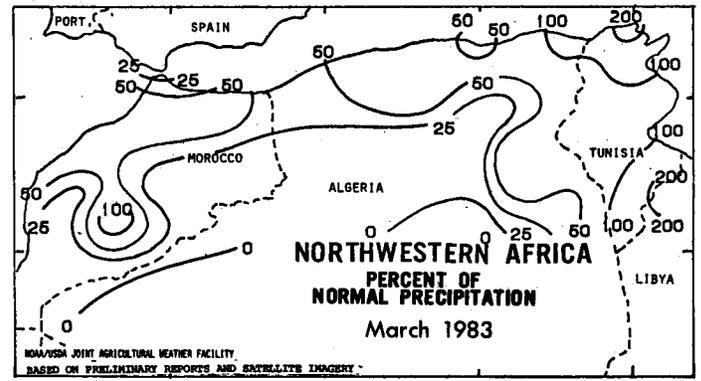
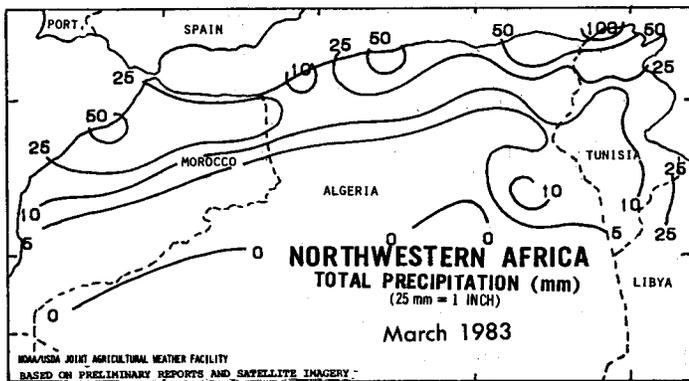
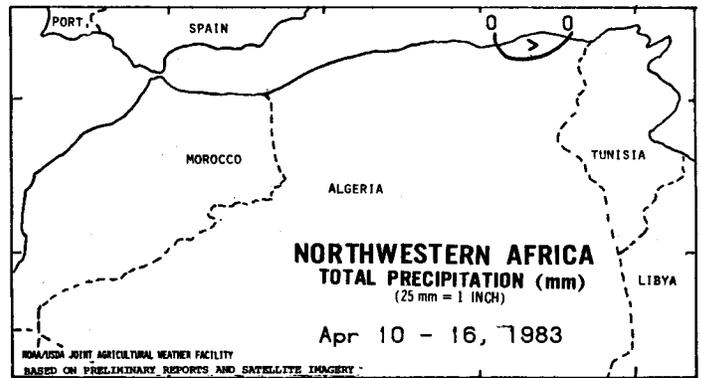
EUROPE...Showers followed by beneficently dry weather fell over England and France. In contrast, wet weather continued March's above-normal precipitation pattern over much of northern Europe. Fieldwork delays in spring planting have been reported in the north due to persistent showers. In contrast, light precipitation covered Yugoslavia, Bulgaria, and southern Romainia, continuing March's below-normal rainfall pattern. Overall, moisture supplies should be adequate for spring planting and vegetative growth of winter crops in all areas except the Iberian peninsula. In the Iberian peninsula, continued dry weather over most of the region has stressed winter grains, diminishing crop prospects in the south where the crop is in the late heading stage. Further north, cold nighttime temperatures have slowed plant development and, as a result, most of the crop should still be in the late vegetative stage. Therefore, timely rains in the north could still improve crop prospects.



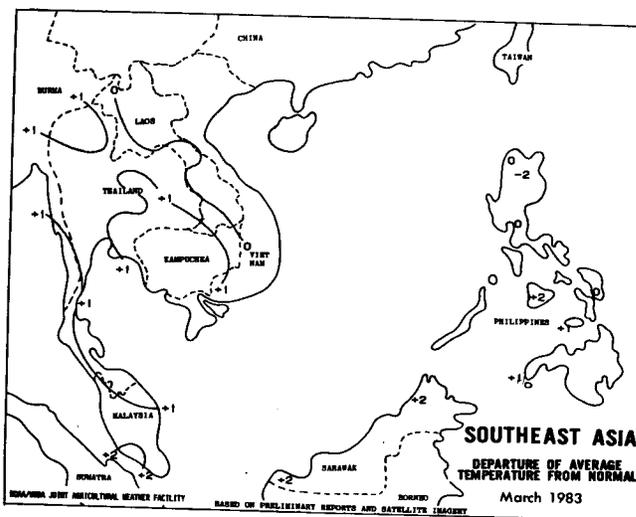
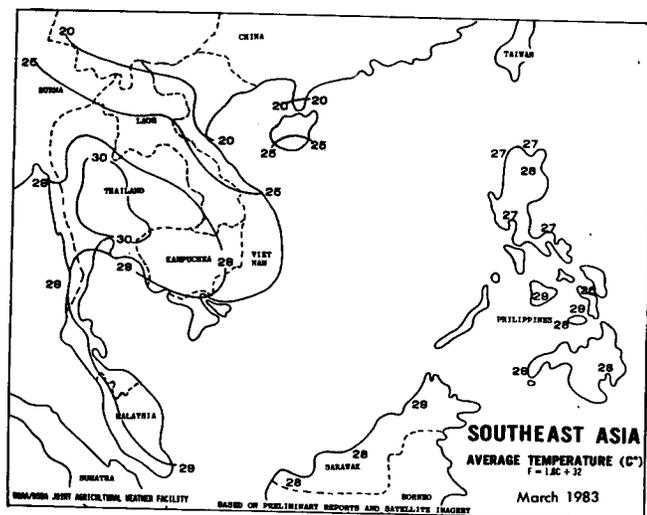
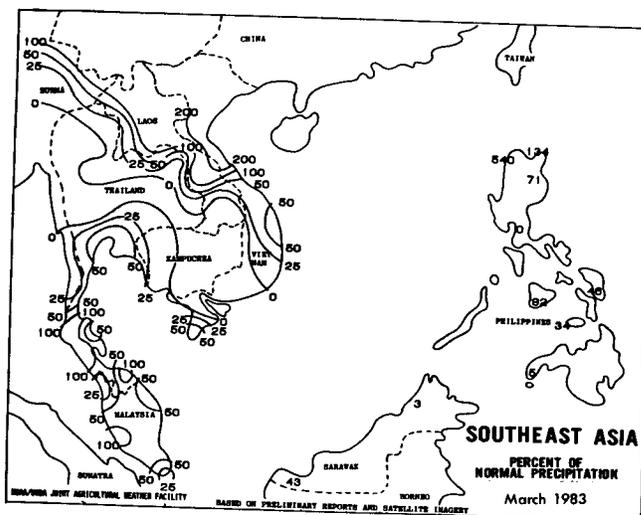
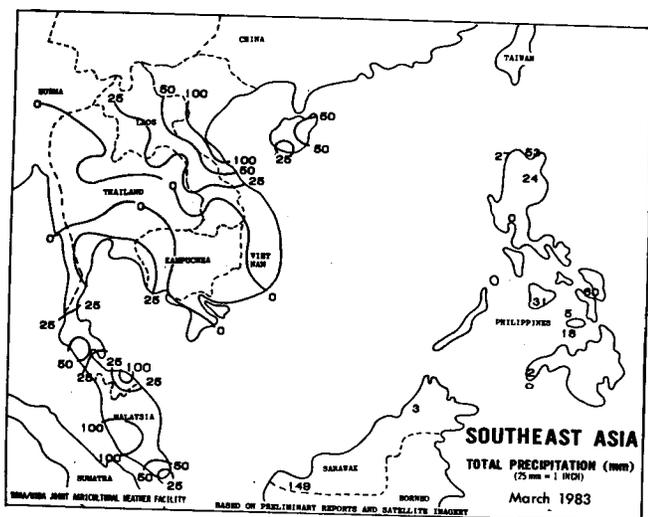
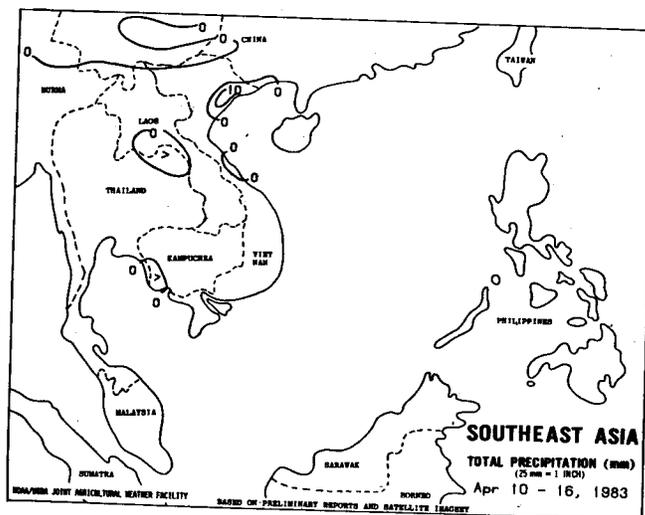
SOUTH AFRICA... Below-average rain again in March throughout most of the Maize Triangle aggravated the deteriorating water situation caused by one of the worst droughts in South Africa's history. Agricultural activities face grim prospects during the winter as the normal dry season begins. A serious reduction in water supplies will have a damaging impact not only on winter crop yields, including wheat which is produced on irrigated land, but also on livestock and reservoir supplies. Isolated showers dotted the Maize Triangle and the Transvaal during the past week but areal coverage was minimal. Weekly coverage of South Africa will be discontinued until the spring planting season associated with the onset of summer rains. Monthly maps will be published throughout the year.



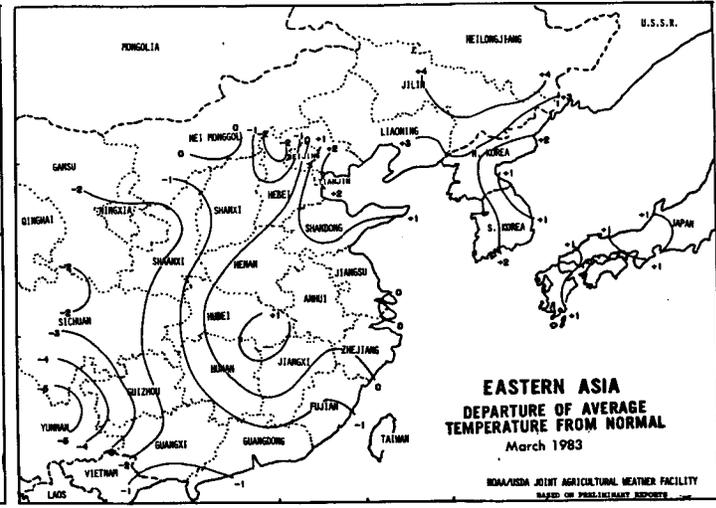
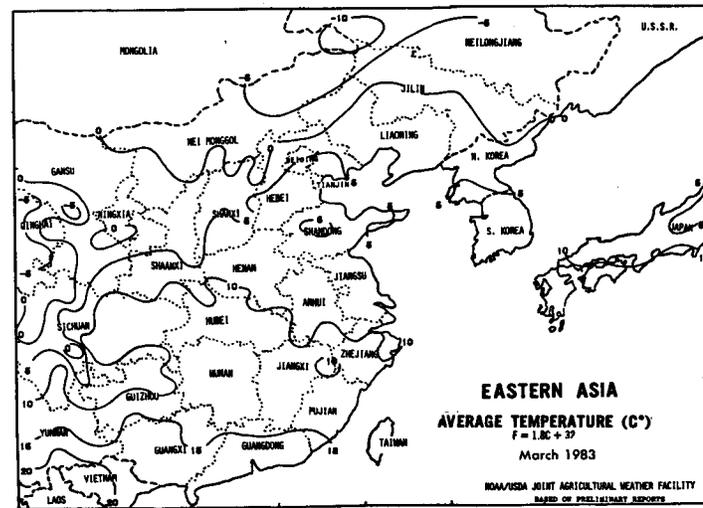
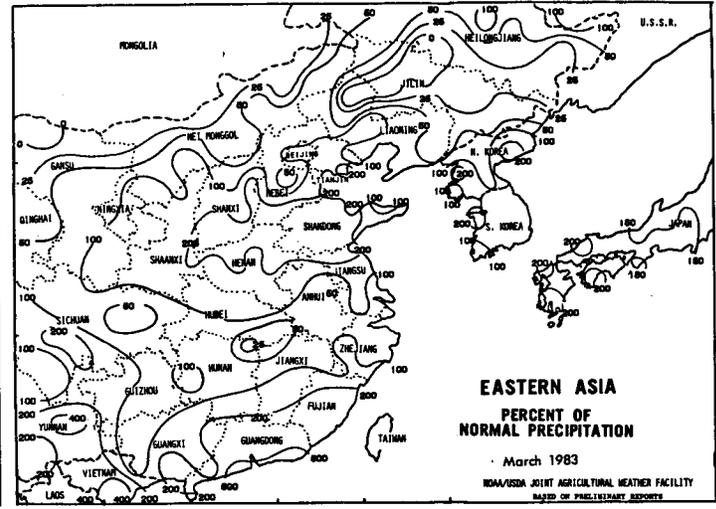
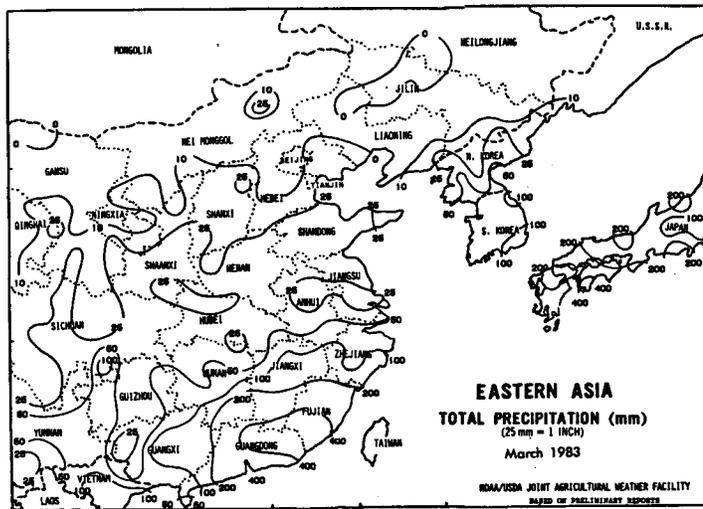
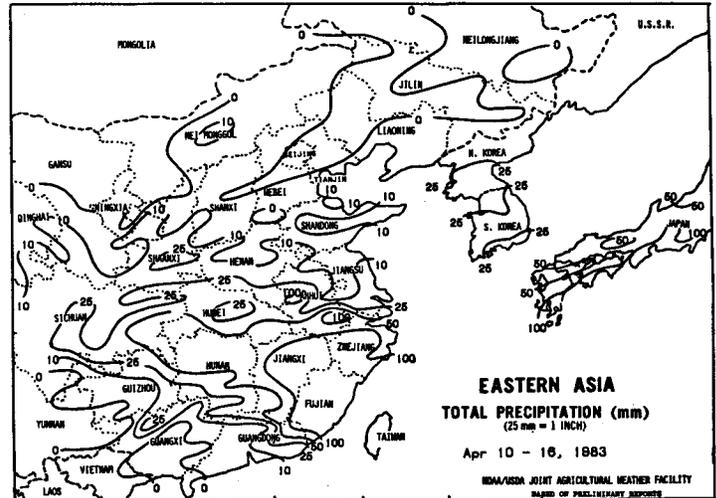
NORTHWESTERN AFRICA...Unfavorably. dry weather continued to stress winter grains over most of the region. In Morocco, an unfavorably low precipitation pattern has persisted since planting in the south. In contrast, rain benefited winter grains in northern Morocco during planting, but below-normal precipitation immediately followed, creating less than favorable growing conditions. In addition, unseasonably warm weather in Morocco this past week continued March's above-normal pattern. Daily maximum temperatures around 35°C at many locations further aggravated the low-moisture situation. In Algeria and Tunisia, dry weather this past week continued March's below-normal precipitation pattern in Algeria and reversed March's near-normal pattern in Tunisia. Weekly temperatures in these areas continued near normal. Winter grains in all areas are normally in the heading stage, and continued dry weather is reducing crop prospects, particularly in Morocco.



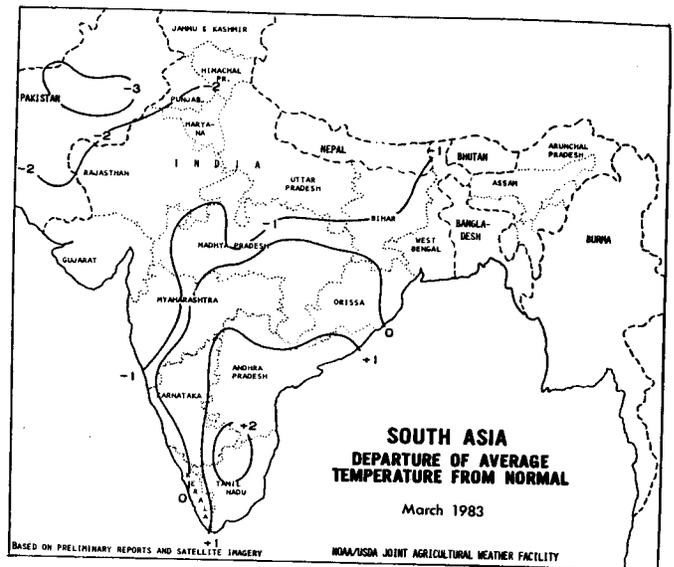
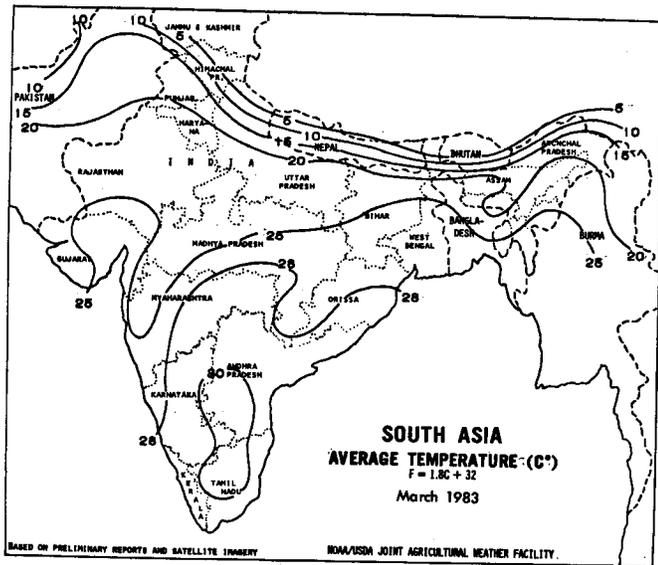
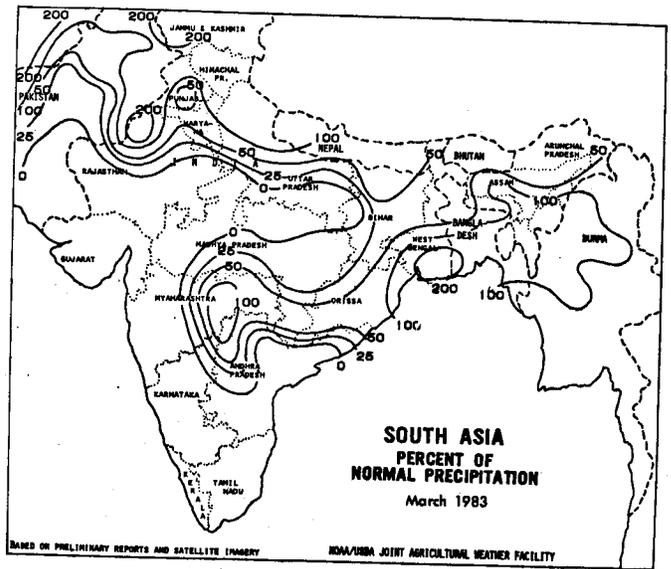
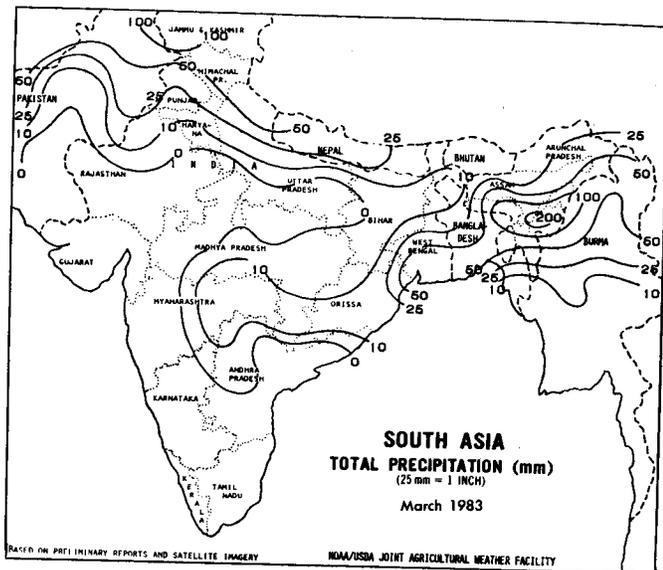
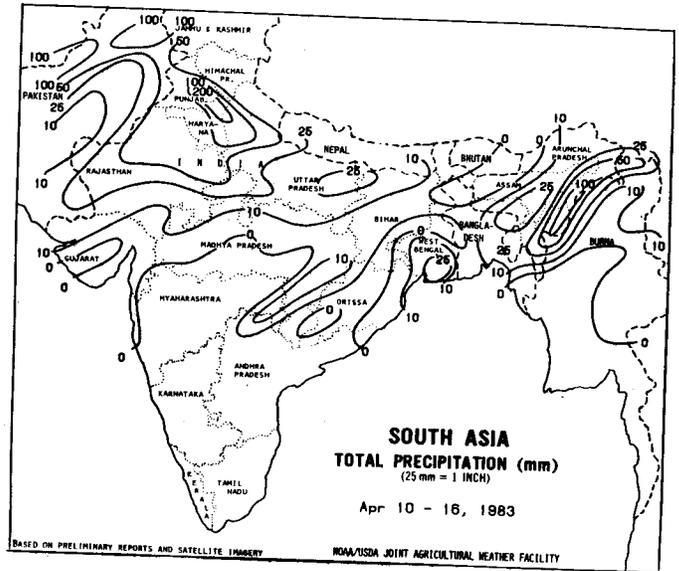
SOUTHEAST ASIA... Weekly weather summaries will begin with this issue to monitor the development, intensity, and progress of the 1983 monsoon season in Thailand and vicinity. The primary crop season coincides with the rainy season; thus, planting begins with the onset of significant rains. Monsoon activity has not yet begun, but premonsoon showers have started in the extreme southern portion of Thailand as observed in March's monthly precipitation map. Corn and rice planting will begin during the next few weeks with the onset of early-season rains. Dry weather covered the region during this past week.



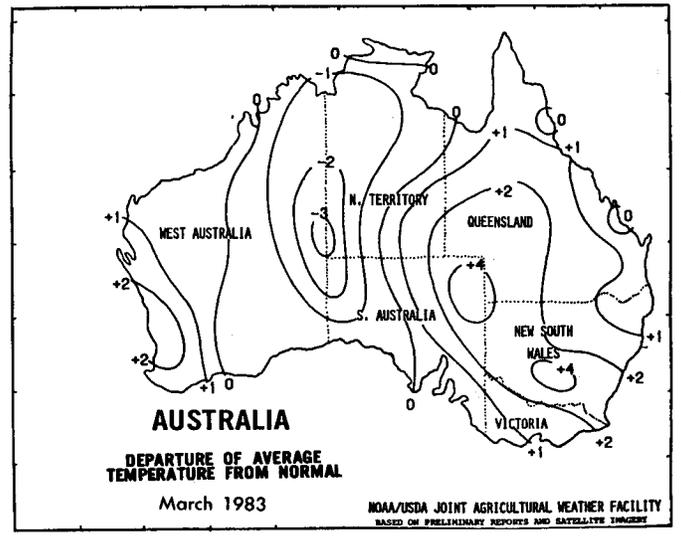
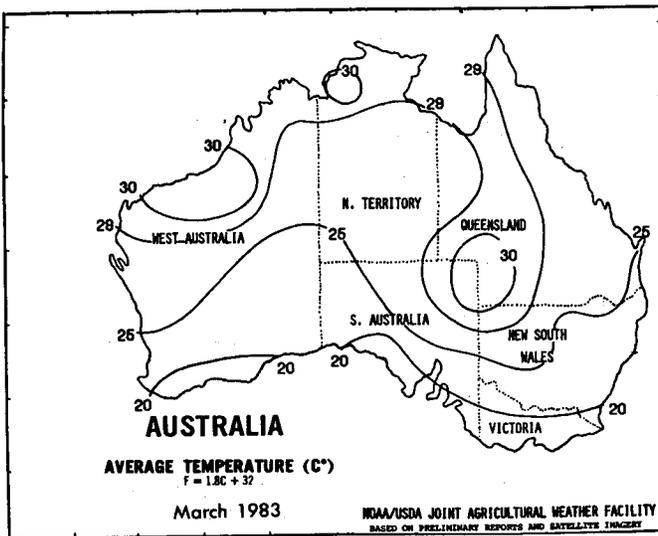
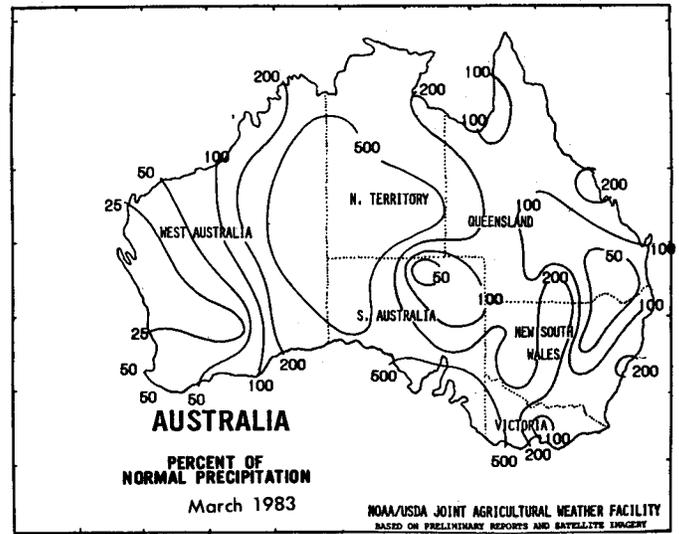
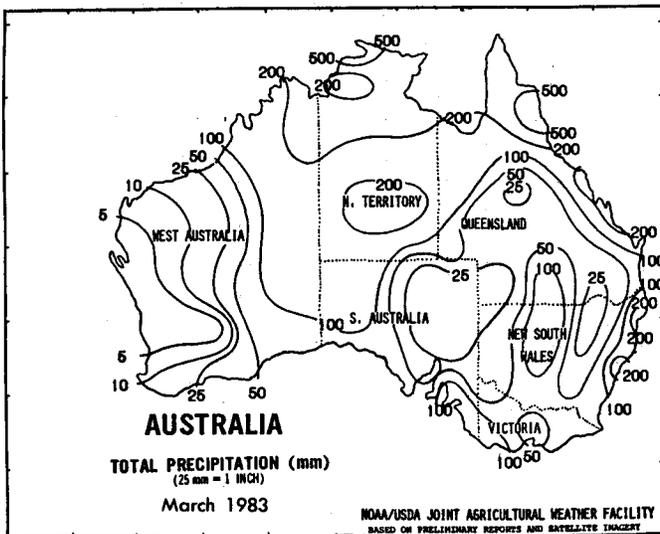
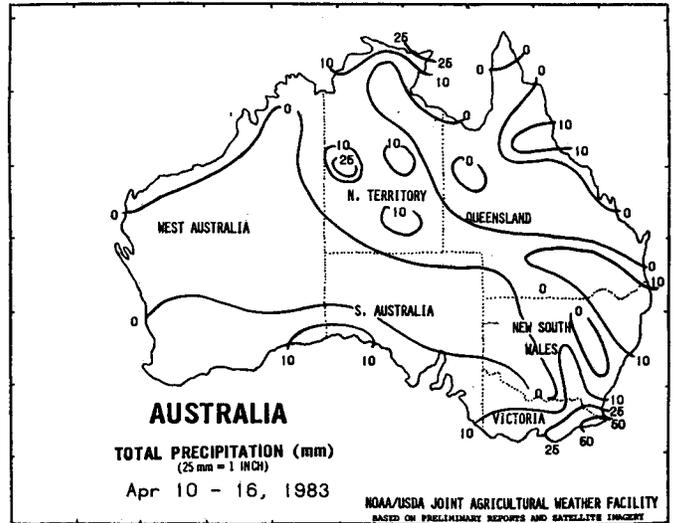
EASTERN ASIA...Showers covered most of China and the Korean peninsula during the week, benefiting vegetative growth of winter wheat and spring crop planting in central China. Generally favorable moisture in most winter grain areas aided the emergence of winter wheat from dormancy during March. However, mostly dry weather covered the northern wheat areas, continuing the below-average rainfall pattern of March. In the south, mostly light rain fell over Guangdong, improving conditions for rice planting following the excessive rains during March which inundated southeastern China. However, the heavy rains continued in Fujian, further aggravating the flood potential, and downpours spread into Jiangxi and Zhejiang where March rains were near normal. Widespread rains also covered the Yangtze Valley, aiding moisture supplies for spring crop planting.



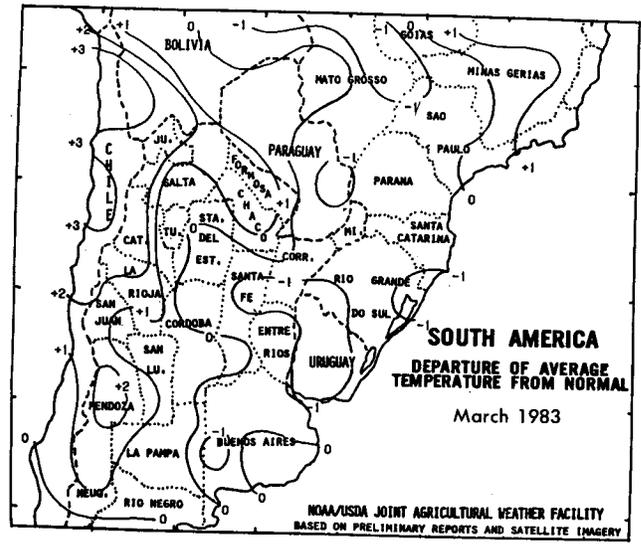
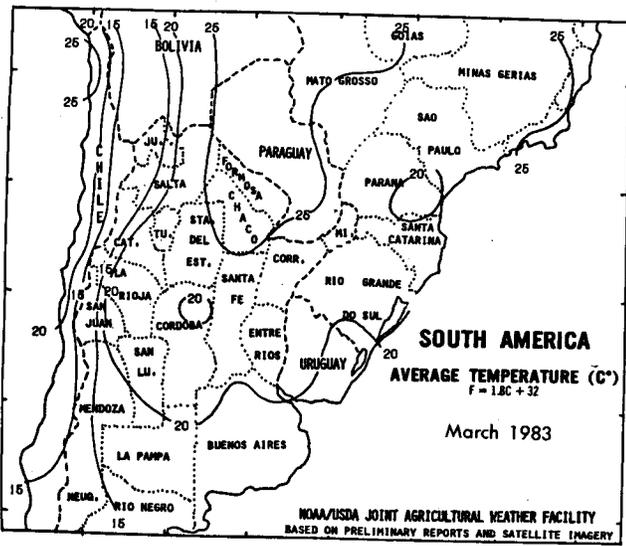
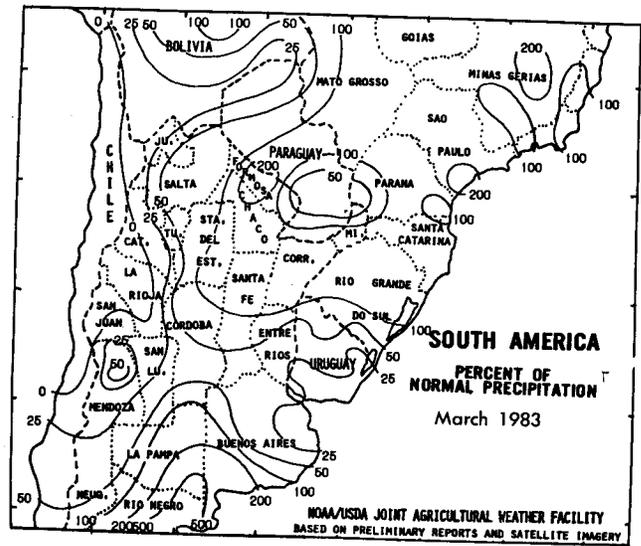
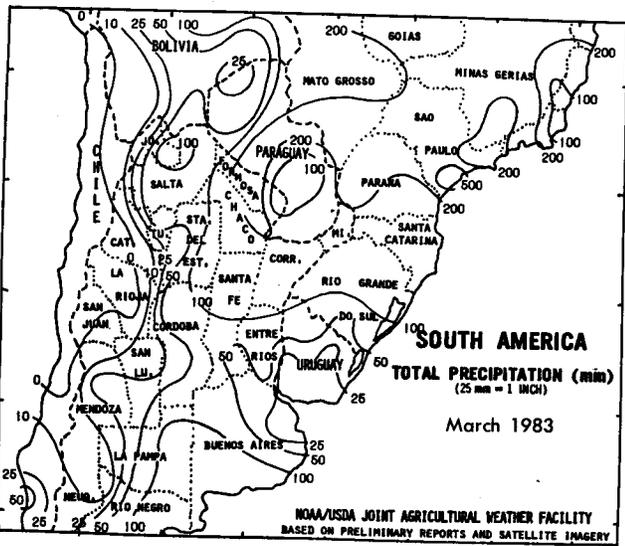
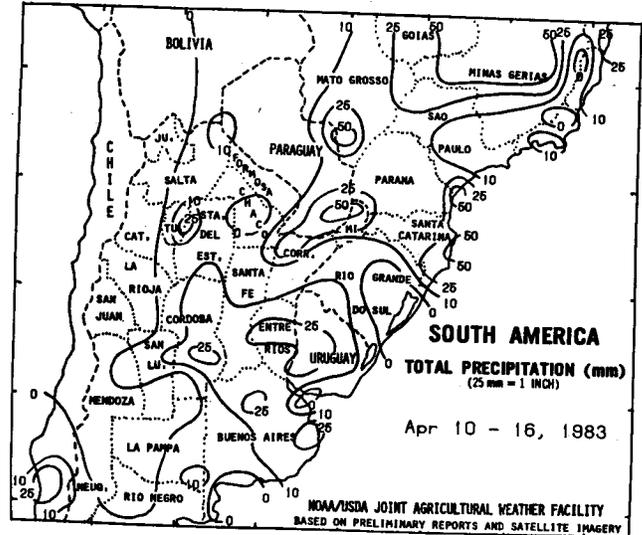
SOUTH ASIA...Wet weather continued to cover winter grains in northern Pakistan and much of northern India. Heavy amounts of rain, 100-200 mm, likely caused localized flooding. In Pakistan, persistent rains since early March have delayed the harvest which is normally well underway by now. In northern India, showers and thunderstorms likely created harvest delays with localized hail and high winds causing some crop damage and lodging. However, a large portion of the crop is harvested by hand, so few losses due to lodging should occur. Since most of the crop is sun dried in the field, dry weather is extremely important to ensure good grain quality. Last year, untimely rains during the harvest damaged the crop, but weather conditions this year, until this past week, have been generally favorable as dry weather in March benefited wheat quality and allowed the harvest to progress normally. Elsewhere, light showers benefited parts of eastern India, while dry weather in south peninsular India continued March's dry pattern.



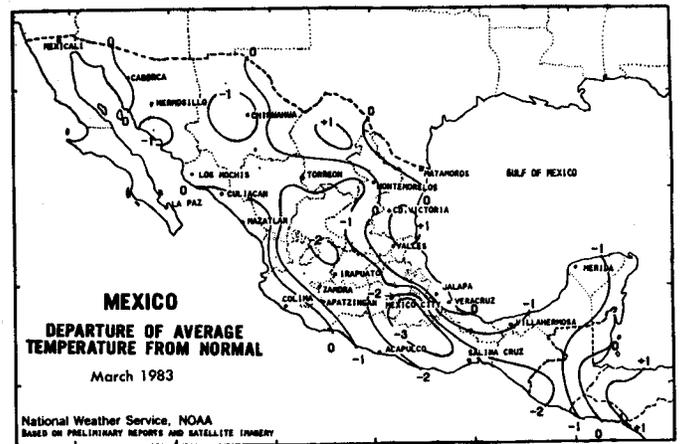
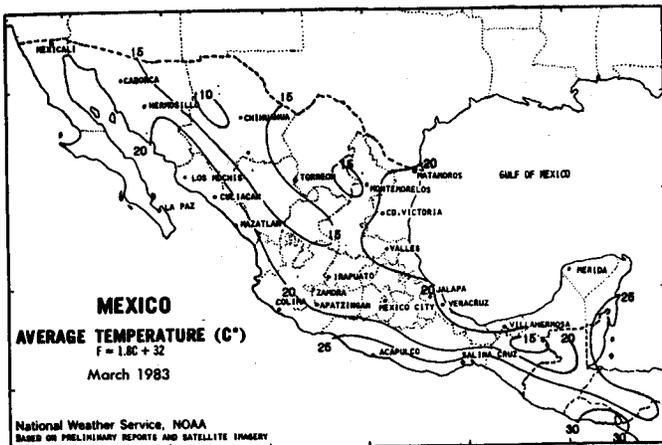
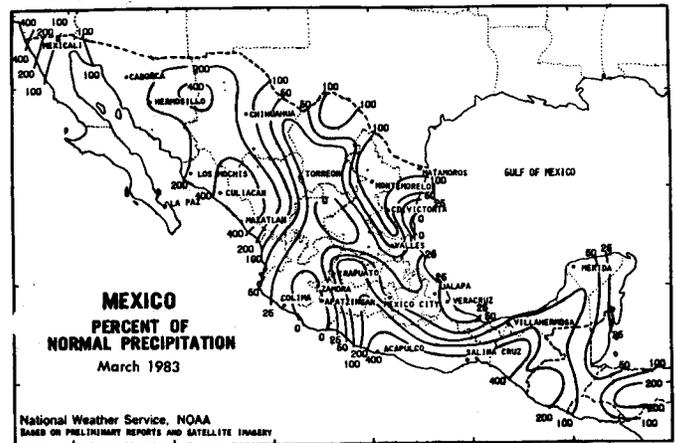
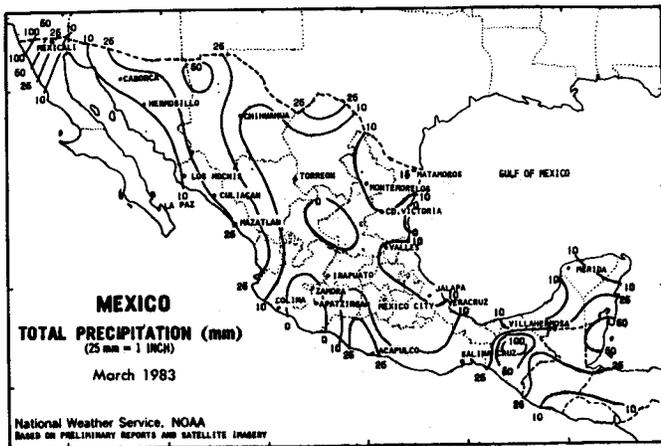
AUSTRALIA...The first substantial rains in nearly a year fell across large areas of eastern Australia during mid-March. The storm system, which traversed the continent from the Northern Territory to Victoria, produced soaking rains in many areas. However, the winter grain areas still need frequent rains to alleviate the severe moisture deficiency in southern and eastern regions. The planting season for winter wheat usually begins in May and extends into June and early July. Optimal planting for wheat is usually achieved by June 15, however. Thus, prospects for the upcoming wheat crop will depend very much on timely, effective rains during the next several weeks. A few light showers covered most wheat areas this past week with significant rainfall aiding moisture reserves in southeastern Australia and extreme northeastern New South Wales.



SOUTH AMERICA...Generally favorable harvest weather covered the crop areas of Brazil and Argentina. Brazil's soybean harvest is over 35 percent complete with very good yields reported in many areas. The soybean harvest is over 70 percent complete in southern Mato Grosso do Sul and vicinity and about 15 to 20 percent complete in Rio Grande do Sul. The cotton harvests in Sao Paulo as well as in Chaco and Formosa in Argentina made progress with mostly dry weather. Some showers temporarily interrupted harvesting, especially in Cordoba and Buenos Aires; however, corn, sorghum, and soybean harvesting made progress during the week. During March, favorable drying weather for maturing crops prevailed in Argentina except in the north where locally heavy rain fell during mid-March. Above-average rains, mostly during the first half of the month, covered Brazil's crop areas.

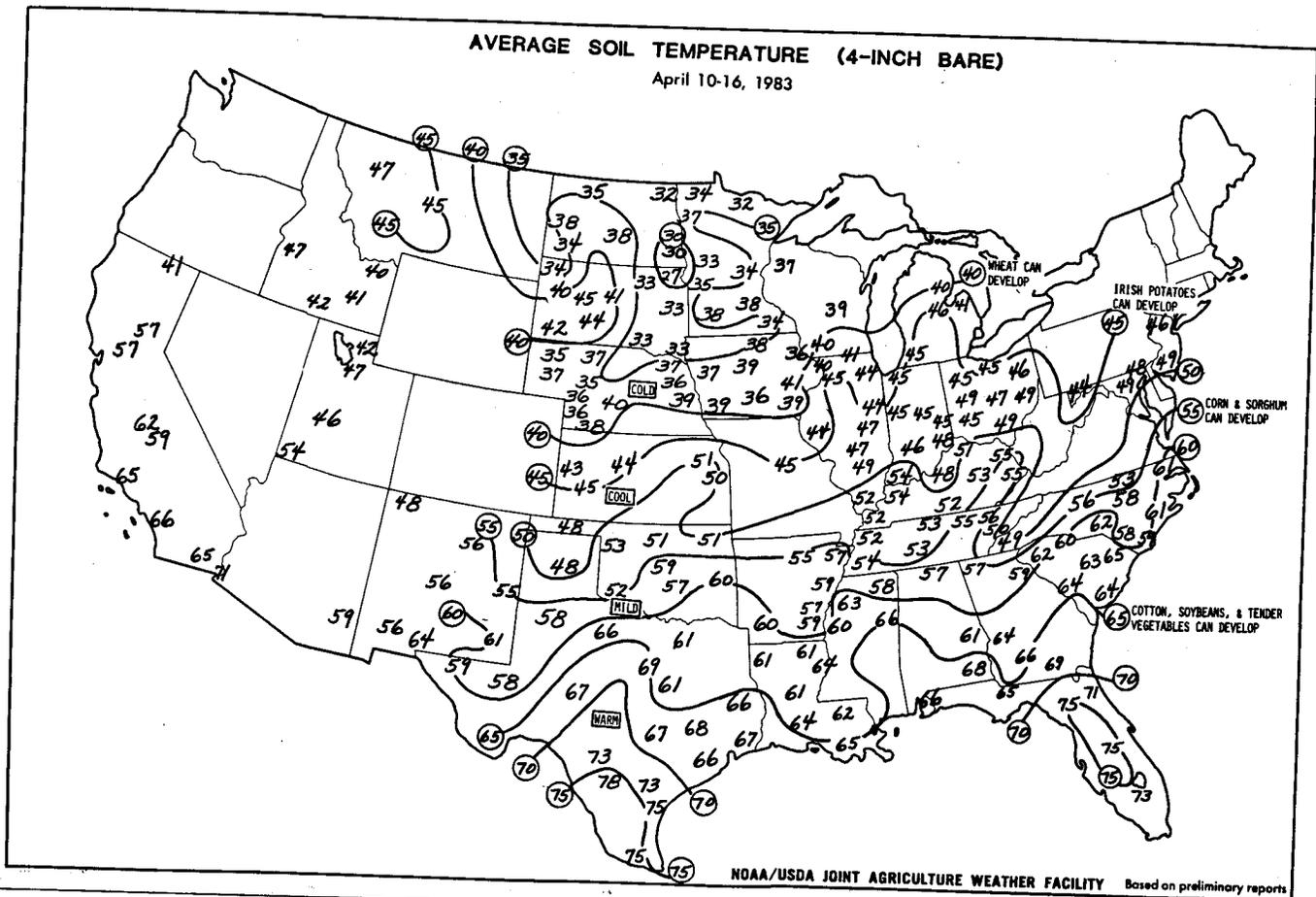


MEXICO...Very sunny, dry weather over most areas favored field activities but maintained large water requirements for crops. The southern plateau corn belt remained unusually dry, and irrigation supplies are quite low. The onset of the rainy season, generally beginning in May, will be very important to agriculture in this major growing area during this particular planting period. Reservoir water storage greatly increased in the northwest during February and March as fringes of some of the rainy Pacific winter storms moved across the region. Over twice the usual rain fell in the northwestern mountainous watersheds during March, bringing dam supplies to much above normal.





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