

# WEEKLY WEATHER AND CROP BULLETIN

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

U.S. DEPARTMENT OF AGRICULTURE  
Statistical Reporting Service  
and World Agricultural Outlook Board

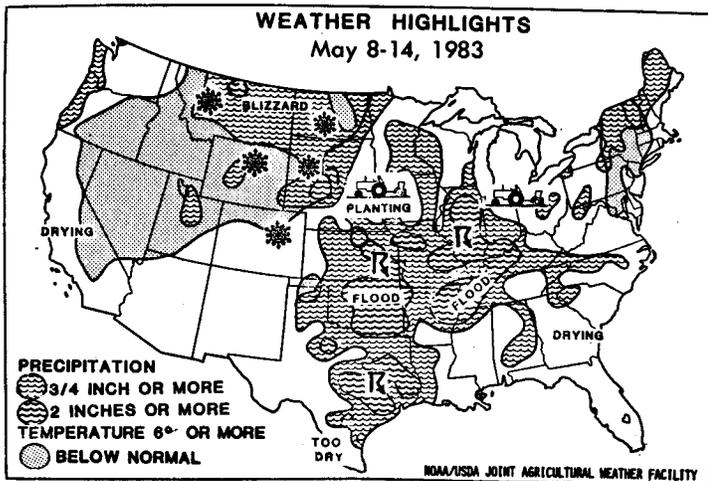
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May 17, 1983

## National Weather Summary

May 8 to 14



**HIGHLIGHTS:** Freezing temperatures early in the week through the eastern Corn Belt to the central Appalachians were followed by another outbreak of cold air into the Rockies which moved slowly eastward. Heavy snow fell from the northern and central Rockies through Montana into the Dakotas. Showers and thunderstorms covered nearly all of Eastern United States as the cold air moved eastward. Heavy deluges of rain caused local flooding from eastern Oklahoma through much of Arkansas into Tennessee and Kentucky and in eastern Texas. Most of the Nation averaged cooler than normal, but the area from the central Plateau to the northern High Plains averaged 9 to 14° colder than normal.

**SUNDAY...**A cold front scattered showers and a few thunderstorms across the East Coast States and in West Virginia and the upper Ohio Valley. Moderate showers fell from central Pennsylvania through western New England and mixed with snow late in the day. Light showers covered the Northwest and moved across the northern Rockies into the Dakotas. Snow fell in the Cascades and in the Rockies. Thunderstorms broke out in the Texas Big Bend area late in the day.

**MONDAY...**Showers continued in the Northeast, and snow fell in western New York and New England. Cold air pushed into the East. Freezing temperatures covered the Great Lakes region and pushed into Illinois, Indiana, and through Ohio to West Virginia and Pennsylvania. Another outbreak of cold air plunged into the northern Rockies. Showers extended from the northern Pacific coast across Montana and into the northern Plains. Snow fell in the Cascades and northern Rockies, and moderate to heavy rain changed to snow in central

and western Montana. Showers and thunderstorms were scattered over much of Texas and Louisiana.

**TUESDAY...**Snow continued in Montana early in the day and spread into Wyoming later. Heavy snow and strong winds approached blizzard conditions. In the warmer air to the east, showers spread over the northern Plains, and heavy thunderstorms pounded western Nebraska. Showers and thunderstorms spread from the Texas Panhandle eastward to Alabama and northward into Kansas. Severe weather plagued eastern Texas and Oklahoma and western Louisiana. Freezing temperatures covered the Great Lakes and reached through the upper Ohio Valley to the central Appalachians.

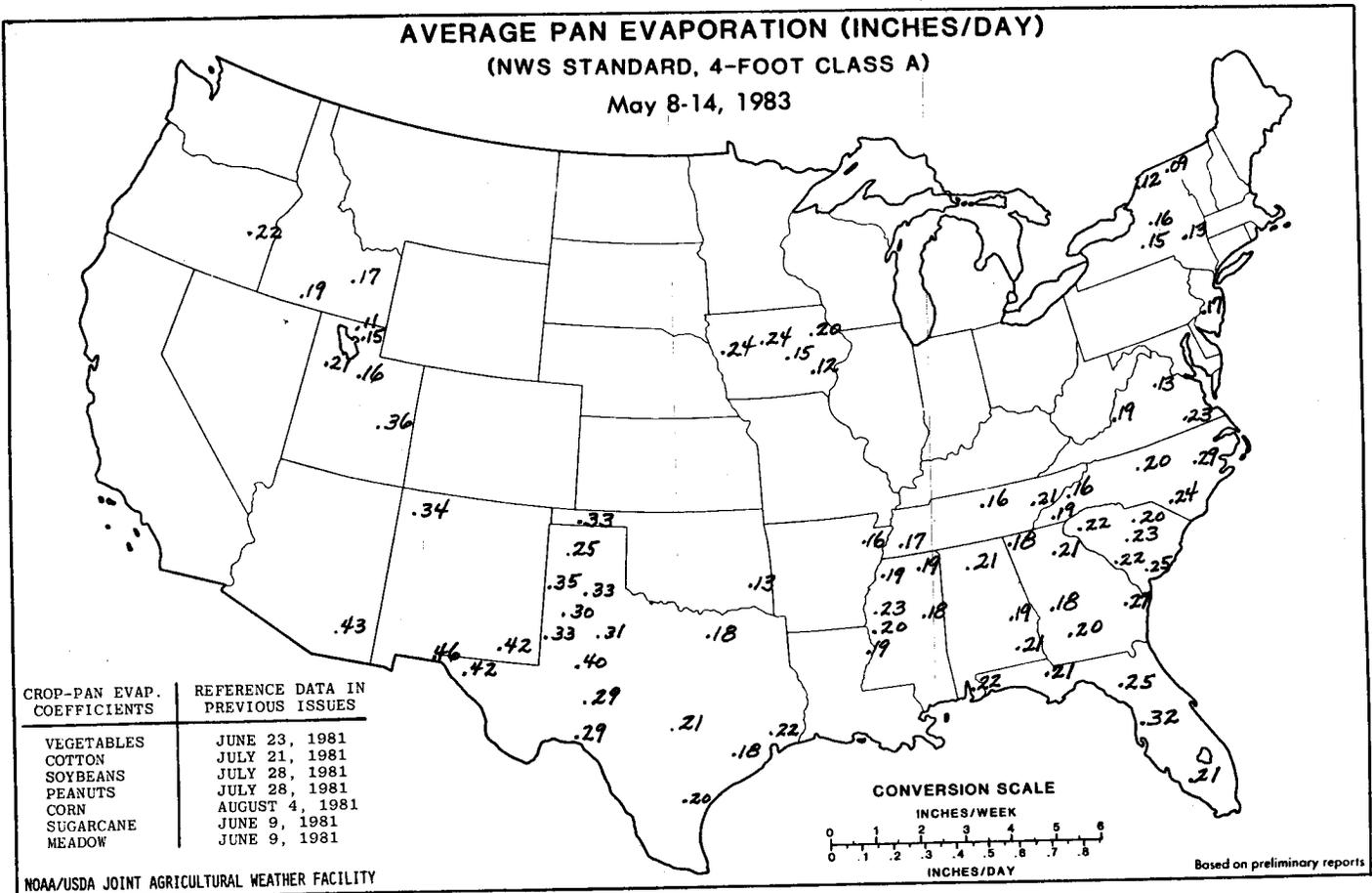
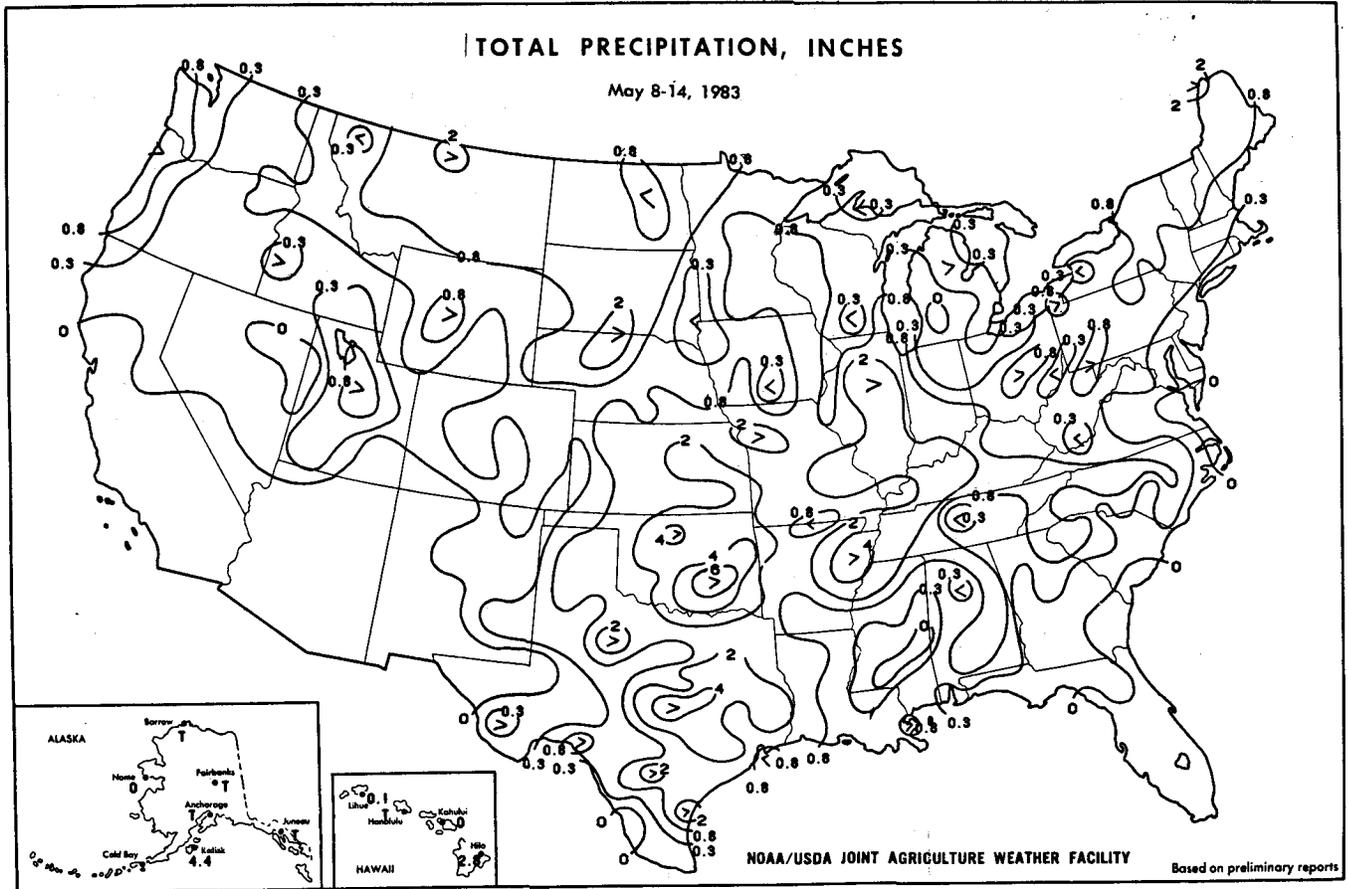
**WEDNESDAY...**Snow continued from Nevada into Wyoming and southern Montana, while moderate to heavy showers and thunderstorms covered the northern Plains. Lighter showers spread eastward to the Mississippi River and southward through the Delta. Heavy thunderstorms triggered torrential rain in northeastern Arkansas and southeastern Missouri. Late in the day, a mixture of rain, snow, and cold wind spread over the northern High Plains into the Dakotas.

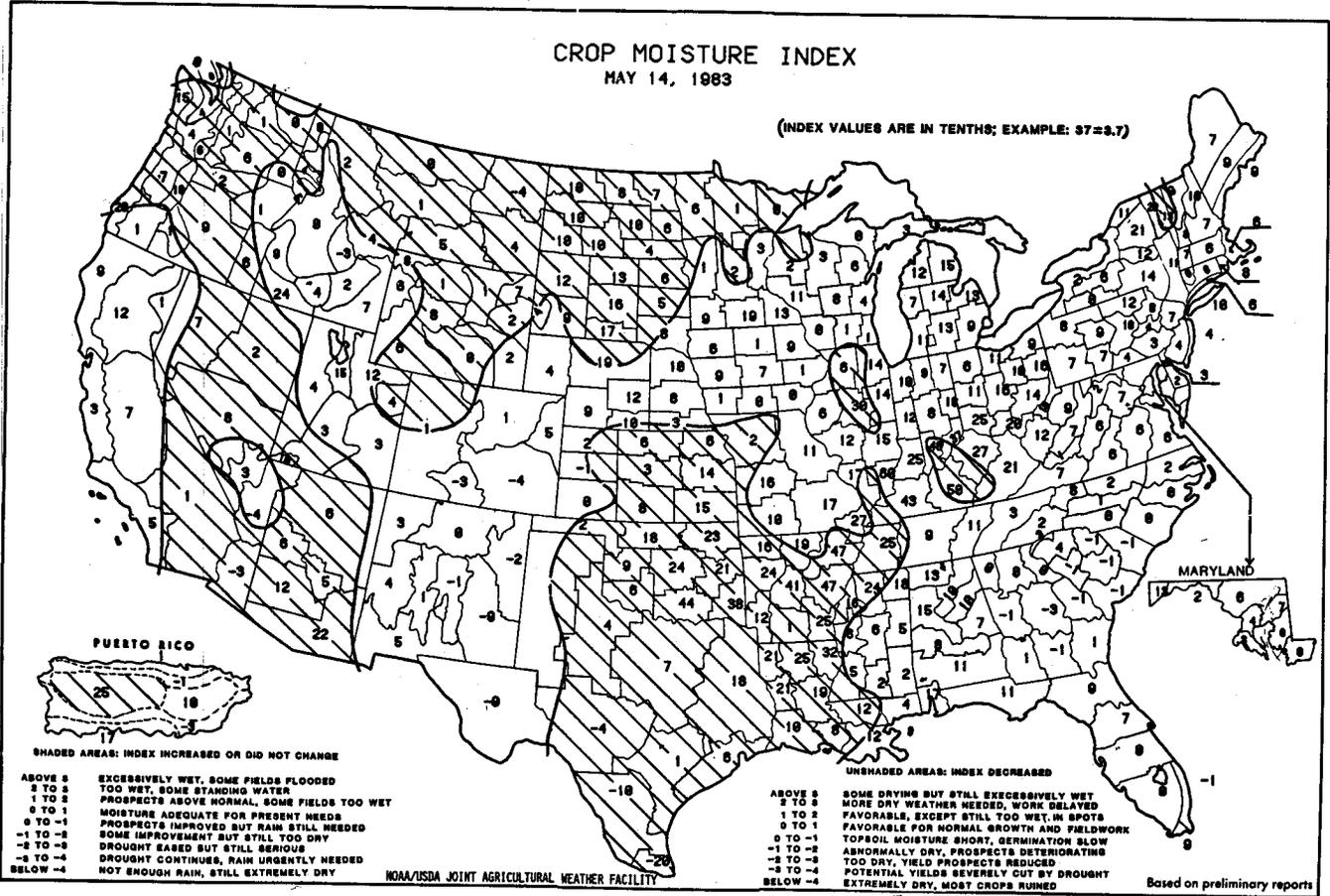
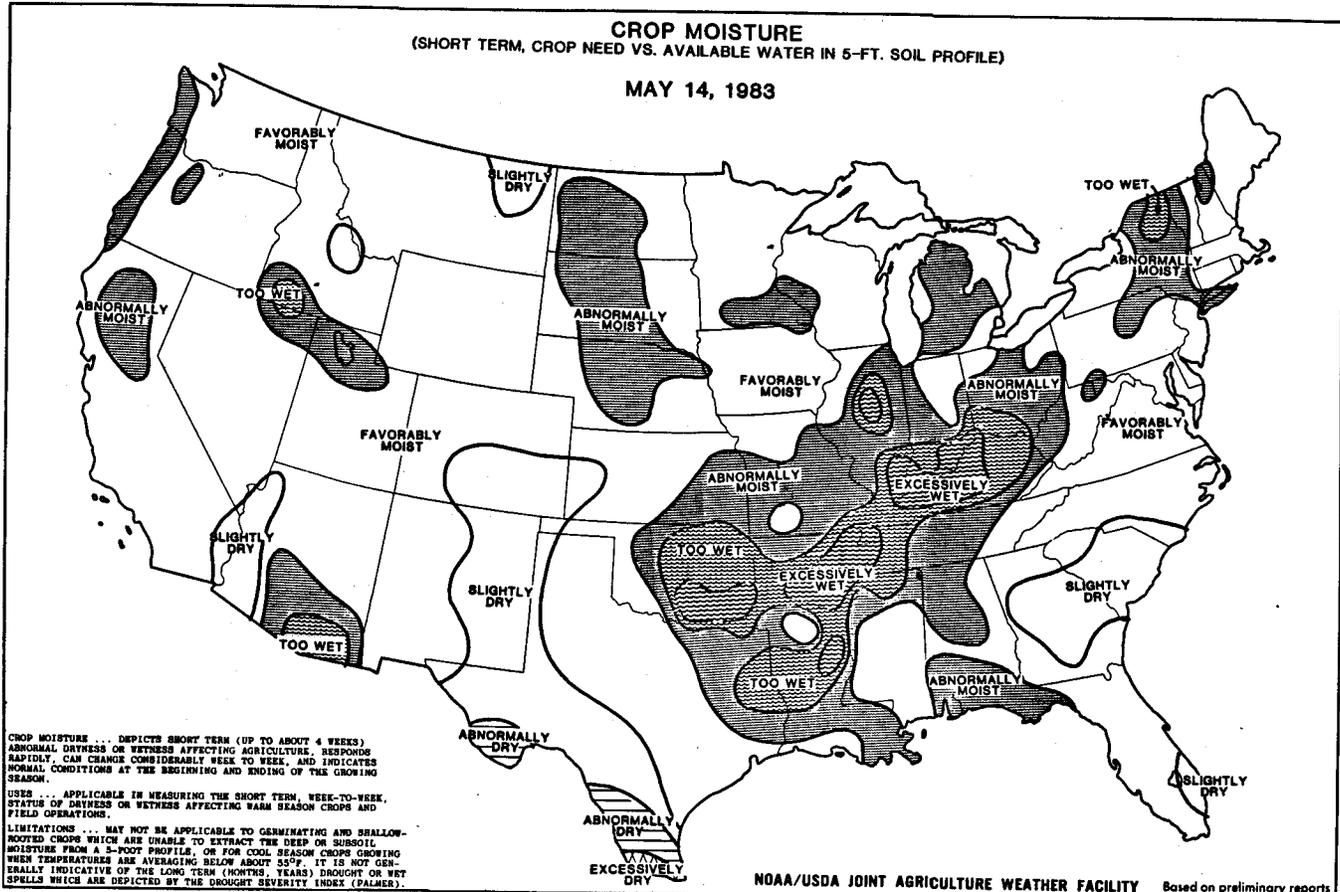
**THURSDAY...**Heavy snow and strong northerly winds combined to create blizzard conditions in North Dakota and parts of Montana. Temperatures dropped to 15° in western Nebraska, and showers and thunderstorms, in much warmer air, were scattered from central Nebraska to the upper Mississippi Valley as far south as Tennessee. Heavy thunderstorms developed from central Oklahoma to northwestern Missouri and from western Tennessee to southern Illinois.

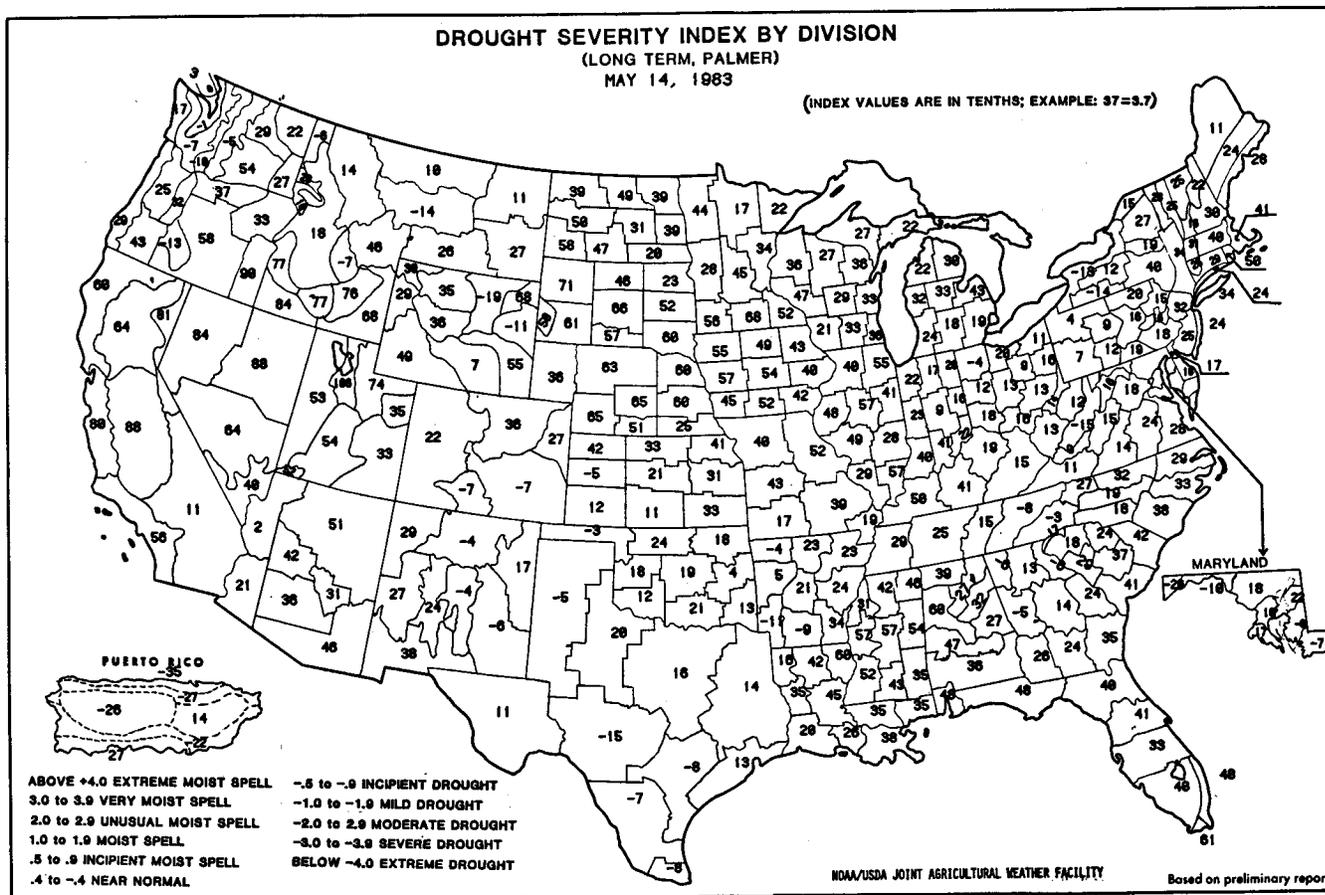
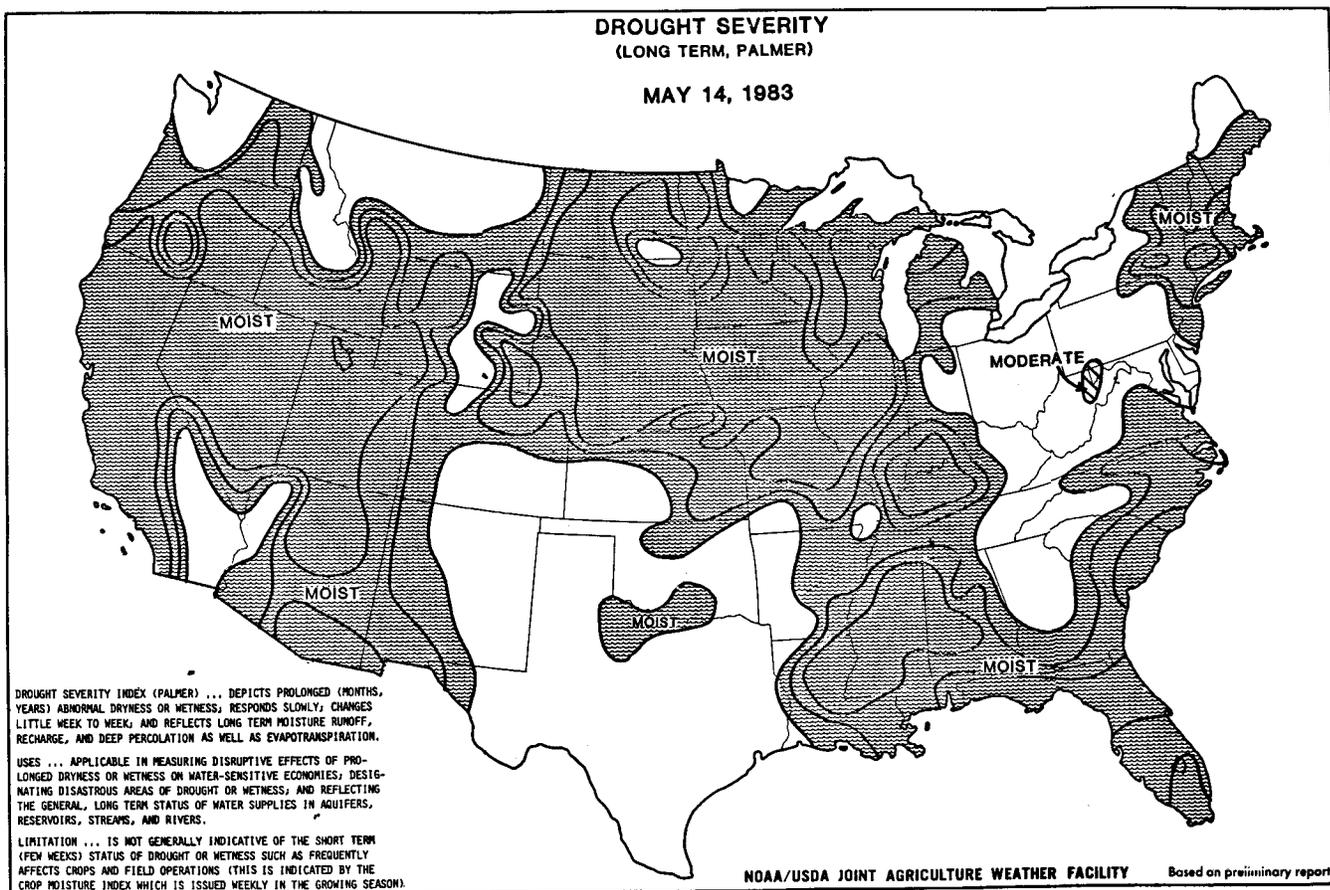
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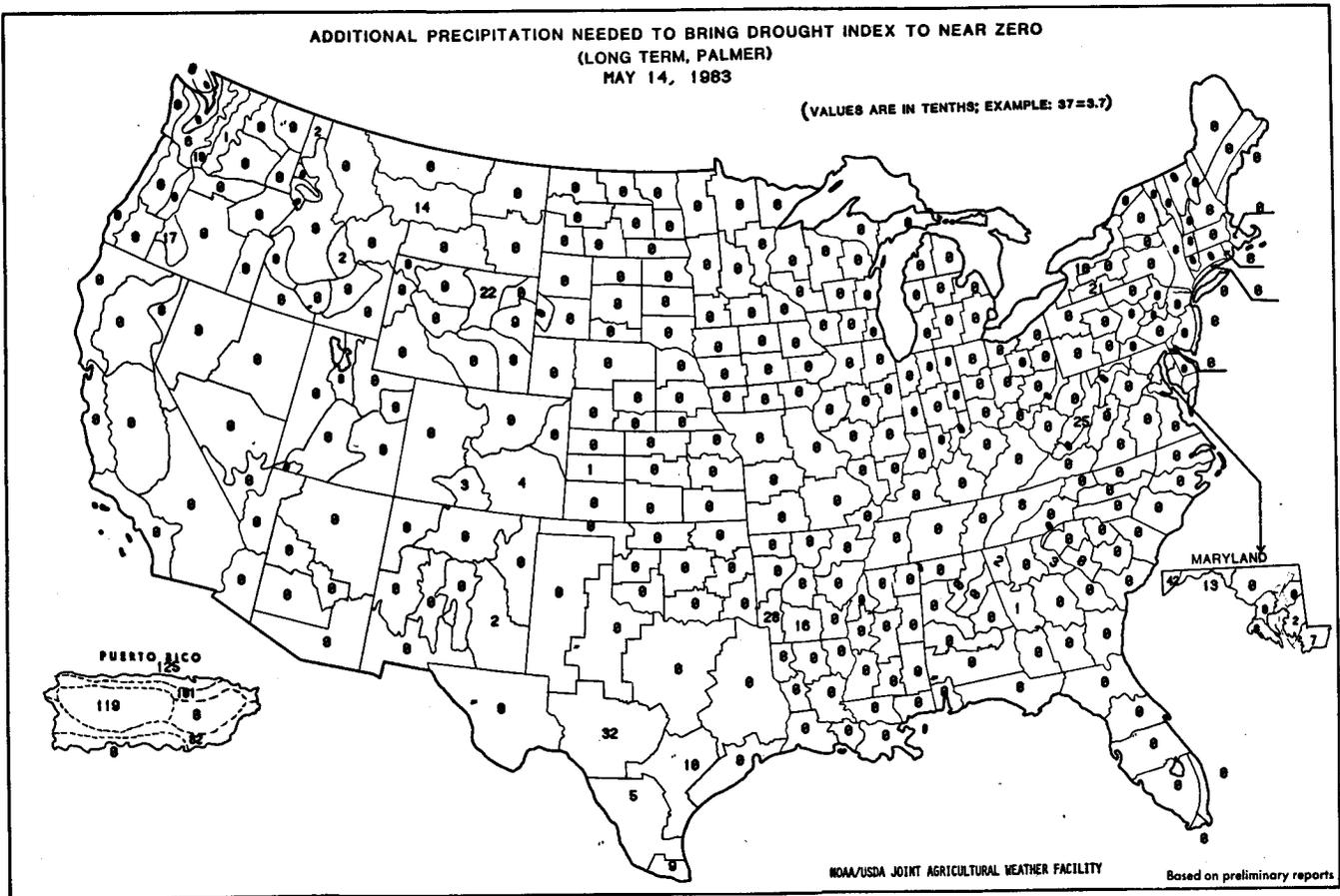
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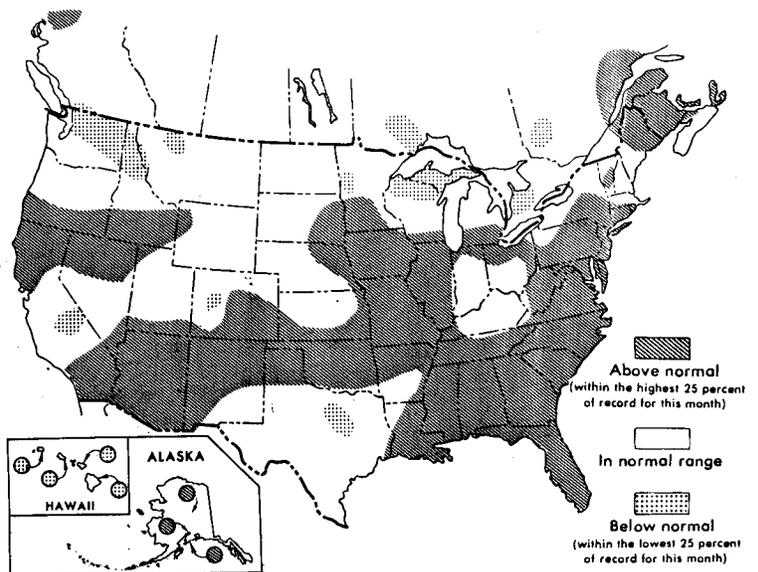
### STREAMFLOW DURING APRIL U.S. Geological Survey

Record and near-record flows were set on streams from Maine to Louisiana in April and about 90 percent of the key index gaging stations nationwide reported average to above-average flows, according to the U.S. Geological Survey (USGS), U.S. Department of the Interior.

According to USGS, April was predominantly wet throughout the country, except for dry conditions along the U.S. Canadian border from western New York through the northern part of the upper Great Lakes states and across parts of Montana, Idaho and Washington State. In the Ohio River Valley, streamflow returned to the normal range after being well below average in March.

As an indicator of the generally wet conditions across the country, flow of the Nation's "Big Five" rivers--Mississippi, St. Lawrence, Ohio, Columbia and Missouri--averaged 1,385 billion gallons a day (bgd) during April, 26 percent above the long-term average and 44 percent above the March flow. The "Big Five" rivers, which together drain more than one-half of the conterminous United States, are used by USGS as a check on general hydrologic conditions.

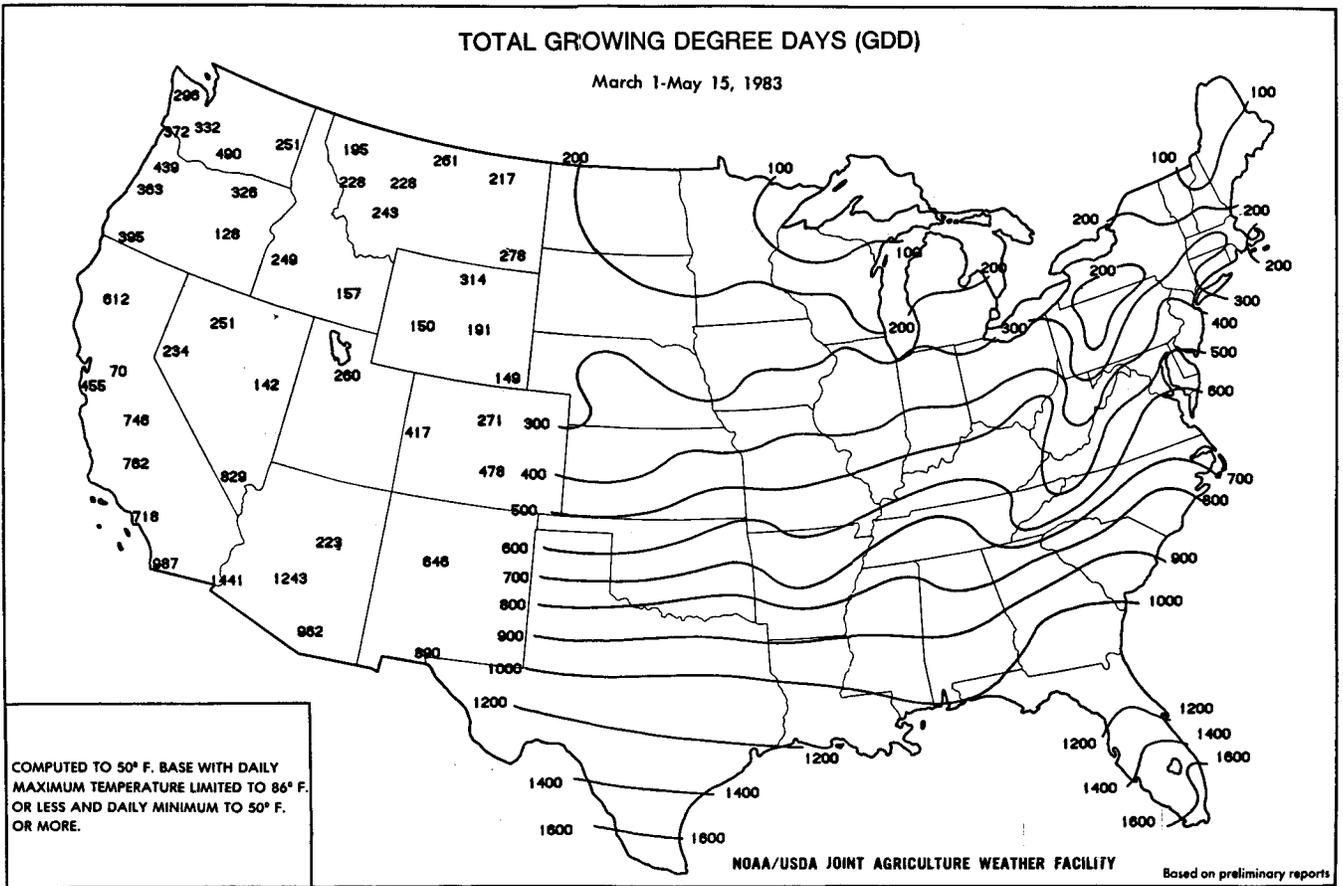
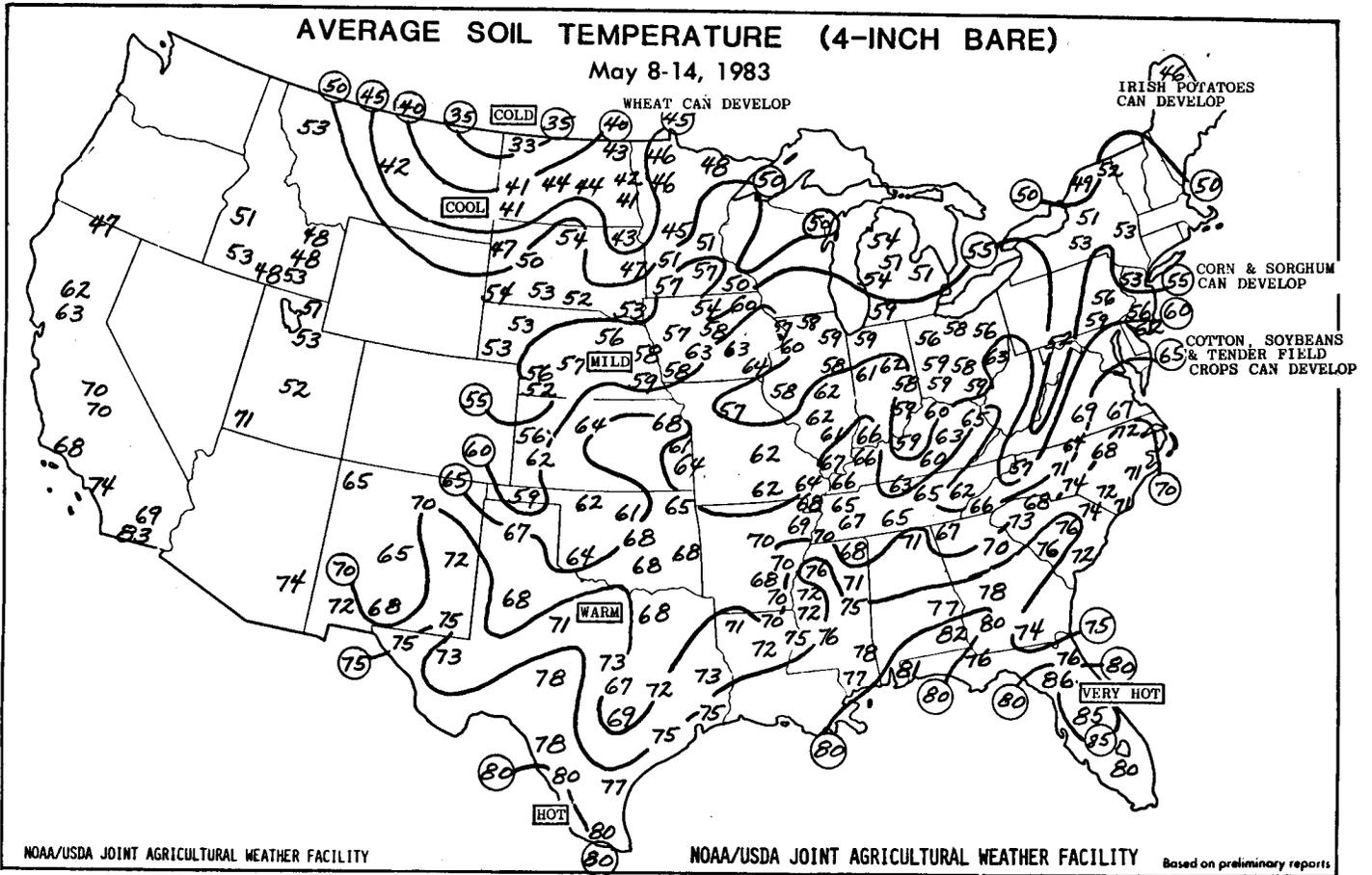
The wettest part of the country was the area between Maine and Maryland where more than a dozen new streamflow records for April were established, including new highs on the Mohawk River at Cohoes in New York and the Potomac River near Washington, D.C. To the south, from Virginia to Florida, 32 of the 37 key index gaging stations reported well-above average streamflows, and 11 index stations reported near-record flows--the second or third highest flows ever recorded. The wet conditions along the east coast extended westward to the Gulf Coast States of Alabama, Mississippi, and Louisiana,

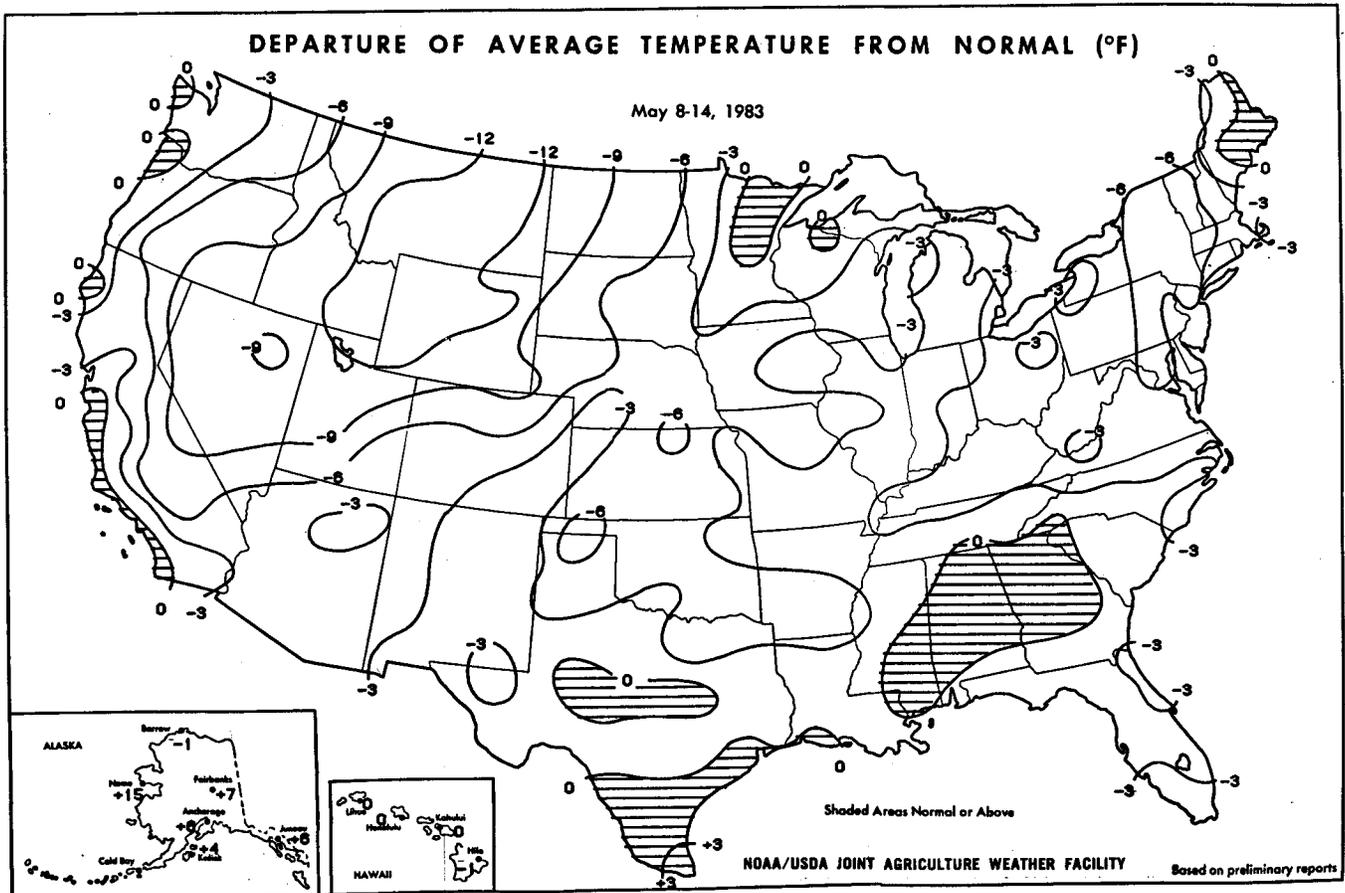
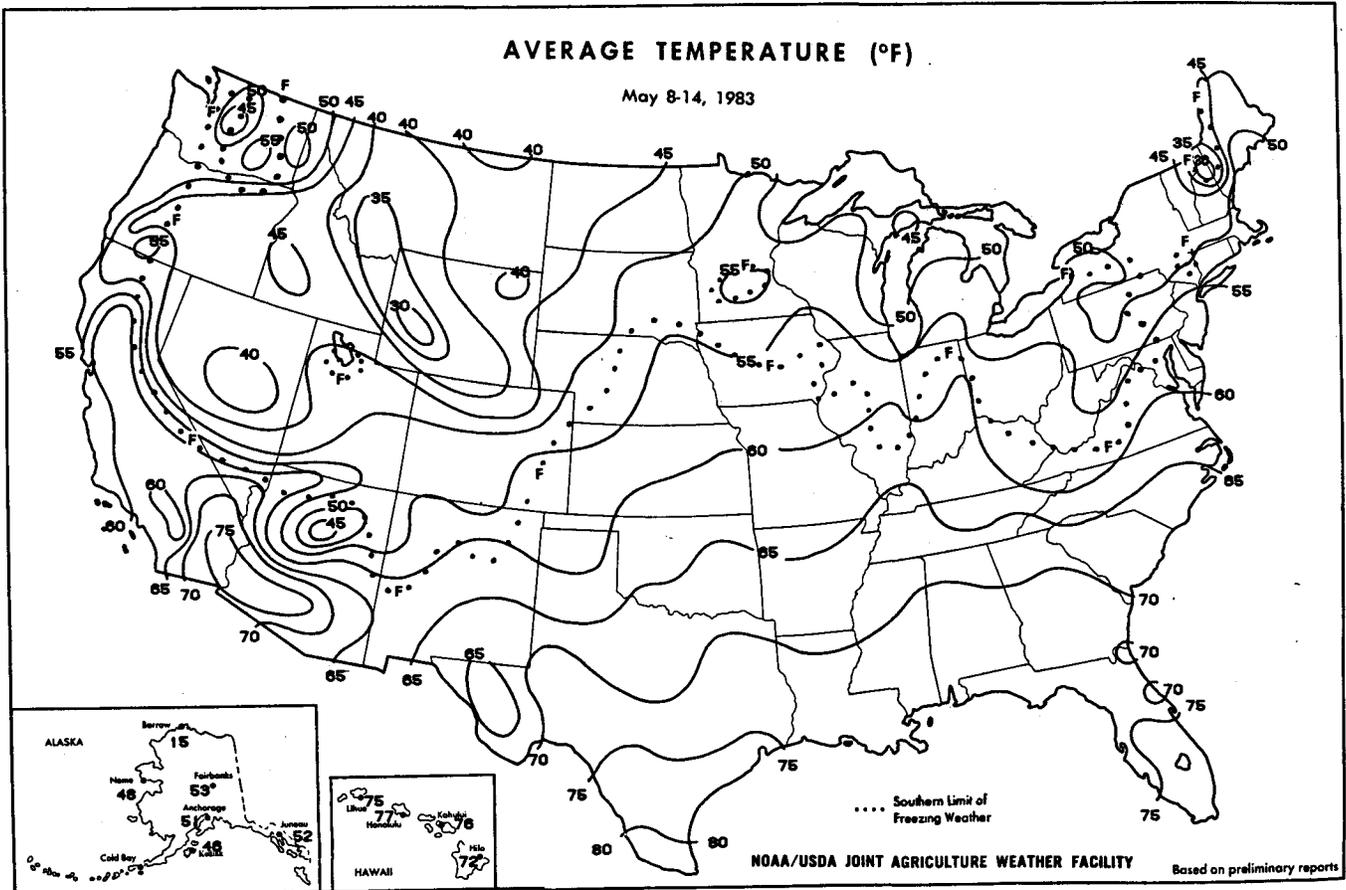


which experienced severe springtime flooding on several major streams.

In Utah, the level in the Great Lake continued to rise, increasing another 6 inches in April. The level at the end of the month was highest in 56 years and over 3 feet higher than the level at this time last year. Another hydrologic concern in Utah was the continuing growth of the young Lake Thistle--estimated size 12,000 acre feet--created when a massive landslide formed a natural dam on the Spanish Fork River south of Salt Lake City.

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Weather Data for the Week Ending May 14, 1983

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Feb. 27	PCT. NORMAL SINCE Feb. 27	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE °F		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	81	58	86	50	70	1	.1	-1.0	.1	14.8	95	26.0	108	87	43	0	0	1	0
MOBILE	83	62	84	54	72	-1	T	-1.2	T	22.4	137	37.3	153	94	48	0	0	1	0
MONTGOMERY	84	60	87	51	72	1	.8	-.1	.6	22.5	165	35.3	169	90	46	0	0	2	1
AK ANCHORAGE	59	42	65	40	51	6	T	-.1	T	1.5	107	2.0	65	72	38	0	0	0	0
BARROW	21	10	28	6	15	-1	T	0	T	.2	29	.3	25	96	75	0	7	2	0
FAIRBANKS	64	41	65	35	53	7	T	-.1	T	.4	40	.8	40	44	19	0	0	0	0
JUNEAU	62	42	66	37	52	6	T	-.8	T	4.4	49	9.7	63	92	43	0	0	0	0
KODIAK	50	43	56	37	46	4	4.4	-2.5	1.8	16.0	117	32.7	146	94	76	0	0	6	3
NOME	58	39	61	33	48	15	0	-.1	0	1.6	80	1.8	51	58	31	0	0	0	0
AZ PHOENIX	90	60	95	56	75	0	0	-.1	0	3.3	236	5.2	193	38	8	3	0	0	0
PRESCOTT	67	40	77	33	54	-2	0	-.1	0	3.4	136	4.9	96	61	21	0	0	0	0
TUCSON	85	54	91	51	70	-2	0	-.1	0	1.5	107	4.2	150	38	9	2	0	0	0
YUMA	89	61	94	56	75	-2	0	0	0	.2	50	1.3	144	36	12	4	0	0	0
AR FORT SMITH	76	57	82	47	66	-2	1.9	-.8	1.8	6.9	62	10.0	64	94	61	0	0	4	1
LITTLE ROCK	75	58	84	46	66	-3	3.9	2.7	3.1	16.6	116	20.5	97	92	64	0	0	4	2
CA BAKERSFIELD	75	48	82	44	62	-8	0	-.1	0	3.1	155	6.6	189	80	26	0	0	0	0
EUREKA	60	46	63	37	53	1	.2	-.2	.2	17.2	177	35.0	166	89	65	0	0	2	0
FRESNO	76	48	85	41	62	-5	0	-.1	0	8.2	234	16.3	247	80	26	0	0	0	0
LOS ANGELES	67	54	70	51	61	-1	0	-.1	0	9.8	297	19.6	248	81	49	0	0	0	0
RED BLUFF	76	48	85	41	62	-4	.2	0	.2	15.7	320	28.9	245	73	22	0	0	1	0
SACRAMENTO	73	47	81	43	60	-4	0	-.1	0	12.1	275	21.4	212	83	32	0	0	0	0
SAN DIEGO	70	60	71	57	65	2	0	-.1	0	8.9	307	14.2	237	76	55	0	0	0	0
SAN FRANCISCO	63	49	69	43	56	-1	0	-.1	0	13.1	257	25.9	221	77	50	0	0	0	0
CO DENVER	61	37	81	30	49	-6	.3	-.3	.2	7.5	160	7.7	145	81	38	0	2	3	0
GRAND JUNCTION	72	42	81	33	57	-4	.1	-.1	.1	3.1	148	4.3	134	65	21	0	0	1	0
PUEBLO	73	45	87	39	59	-1	T	-.3	T	3.5	125	4.1	128	69	23	0	0	1	0
CT BRIDGEPORT	62	44	66	39	53	-4	.1	-.7	.1	15.8	155	28.0	190	77	42	0	0	2	0
HARTFORD	63	40	74	32	52	-6	.3	-.5	.2	16.1	148	25.5	157	79	39	0	1	2	0
DC WASHINGTON	74	49	81	43	61	-3	.2	-.6	.2	12.1	138	17.1	130	73	34	0	0	1	0
FL APALACHICOLA	80	62	81	58	71	-2	T	-.6	T	17.8	178	26.9	172	92	65	0	0	0	0
DAYTONA BEACH	81	58	83	53	69	-5	0	-.6	0	14.1	196	22.6	195	96	54	0	0	0	0
JACKSONVILLE	82	57	85	53	69	-4	T	-1.1	T	13.5	134	24.9	162	98	49	0	0	0	0
KEY WEST	81	73	82	72	77	-3	0	-.6	0	8.7	189	29.8	387	70	56	0	0	0	0
MIAMI	83	68	84	65	75	-3	T	-1.3	T	7.5	91	18.2	157	71	46	0	0	0	0
ORLANDO	86	62	87	57	74	-3	T	-.8	T	9.8	127	19.7	160	94	40	0	0	0	0
TALLAHASSEE	84	59	87	51	72	-1	.2	-1.0	.2	22.0	162	31.9	153	98	49	0	0	1	0
TAMPA	85	65	87	62	75	-2	0	-.7	0	11.0	143	19.1	158	94	45	0	0	0	0
WEST PALM BEACH	82	70	83	65	76	-1	0	-1.2	0	9.2	99	26.5	195	71	50	0	0	0	0
GA ATLANTA	81	58	85	45	69	1	.1	-.9	.1	12.1	90	19.8	95	88	43	0	0	1	0
AUGUSTA	83	55	89	49	69	-1	.2	-.6	.2	13.7	128	23.4	140	86	38	0	0	1	0
MACON	86	60	91	53	73	1	.3	-.6	.3	11.5	98	24.5	131	90	35	1	0	1	0
SAVANNAH	82	60	87	51	71	-2	0	-1.0	0	15.1	147	25.8	171	91	43	0	0	0	0
HI HILO	78	65	82	64	72	-1	2.8	-.5	1.0	19.5	54	21.1	39	94	68	0	0	6	3
HONOLULU	86	68	88	64	77	0	T	-.3	T	1.0	17	1.3	11	85	47	0	0	0	0
KAHULUI	86	66	87	60	76	0	0	-.1	0	1.3	27	1.9	18	84	50	0	0	0	0
LIHUE	81	70	81	64	75	0	.1	-.6	.1	2.8	27	3.6	18	80	60	0	0	2	0
ID BOISE	56	35	65	31	46	-11	.4	-.1	.3	7.2	218	10.1	180	89	41	0	1	2	0
LEWISTON	62	39	71	34	50	-7	T	-.2	T	2.2	79	4.7	102	85	37	0	0	1	0
POCATELLO	52	31	66	25	41	-11	.6	-.4	.6	5.1	165	6.7	146	82	34	0	6	2	1
IL CHICAGO	66	40	76	27	53	-4	.8	-.1	.6	13.6	155	16.4	149	90	45	0	3	2	1
MOLINE	70	45	82	30	58	-2	.8	-.2	.7	8.7	89	10.7	91	85	43	0	1	3	1
PEORIA	69	49	82	33	59	-1	3.3	-2.4	3.0	15.3	161	16.8	142	77	49	0	0	3	1
QUINCY	67	47	75	34	57	-4	.8	-.2	.6	12.4	125	13.3	110	91	57	0	0	3	1
ROCKFORD	68	43	77	29	55	-2	.6	-.3	.5	7.5	77	9.7	82	89	45	0	1	2	1
SPRINGFIELD	72	49	82	33	60	-2	1.6	-.8	1.2	11.1	117	12.5	104	82	45	0	0	3	1
IN EVANSVILLE	74	53	83	40	63	-1	2.4	1.4	1.3	20.1	166	22.7	129	85	50	0	0	4	2
FORT WAYNE	71	46	80	36	59	1	.2	-.6	.2	8.6	95	10.3	81	75	34	0	0	1	0
INDIANAPOLIS	69	47	77	36	58	-3	.9	-.1	.5	10.6	104	12.6	88	91	52	0	0	3	1
SOUTH BEND	67	45	77	33	56	-1	.1	-.5	.1	10.1	105	11.8	91	83	43	0	0	2	0
IA DES MOINES	69	49	77	38	59	-1	.3	-.6	.1	9.3	116	12.6	133	77	45	0	0	4	0
SIoux CITY	68	45	78	38	57	-3	.2	-.6	.2	10.8	177	11.9	170	74	40	0	0	1	0
WATERLOO	67	45	78	32	56	-1	1.0	-.1	.5	9.1	108	11.3	119	86	42	0	1	4	1
KS CONCORDIA	67	46	76	39	56	-5	1.5	-.6	1.5	6.9	113	9.7	141	89	52	0	0	1	1
DODGE CITY	71	49	83	38	60	-2	.8	-.1	.8	6.4	136	8.3	151	85	46	0	0	2	1
GOODLAND	67	42	80	35	54	-3	.2	-.5	.2	4.3	119	5.4	129	86	38	0	0	1	0
TOPEKA	73	52	81	39	63	0	1.5	-.7	1.0	13.1	170	14.4	162	86	54	0	0	4	1
WICHITA	70	50	77	38	60	-4	.9	-.1	.5	9.8	158	12.6	170	94	57	0	0	5	0
KY BOWLING GREEN	70	49	79	36	60	-5	2.4	1.5	1.1	15.0	116	19.4	91	98	67	0	0	4	2
LEXINGTON	70	49	80	34	60	-3	.5	-.4	.4	12.8	108	15.6	88	87	52	0	0	4	0
LOUISVILLE	71	51	82	39	61	-3	1.7	-.7	.8	15.3	123	18.3	101	85	50	0	0	4	1
LA ALEXANDRIA	81	63	86	50	72	-1	.6	-.9	.6	10.5	70	21.4	93	78	51	0	0	1	1
BATON ROUGE	83	64	86	54	73	0	T	-1.2	T	19.1	132	29.3	133	91	52	0	0	1	0
LAKE CHARLES	82	66	84	54	74	0	1.0	-.2	.9	6.0	55	15.9	86	93	60	0	0	3	1
NEW ORLEANS	82	66	84	61	74	0	.8	-.4	.7	20.2	151	35.9	167	92	58	0	0	2	1

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

Weather Data for the Week Ending May 14, 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	
SHREVEPORT	78	61	83	48	70	-2	1.2	.1	.9	6.5	53	17.5	95	95	63	0	0	4	1	
ML CARIBOU	57	42	73	35	50	2	1.1	.5	.9	9.6	137	14.7	139	86	56	0	0	4	1	
PORTLAND	57	42	64	33	49	-2	.6	.2	.3	18.1	172	26.6	166	90	55	0	0	3	0	
MD BALTIMORE	71	41	81	33	56	-6	.1	.7	.1	13.5	144	20.6	145	81	32	0	0	1	0	
SALISBURY	70	42	80	37	56	-5	.1	.7	.1	13.5	138	18.6	119	97	39	0	0	1	0	
MA BOSTON	60	47	75	40	53	-4	.2	.6	.1	17.0	162	27.0	163	85	50	0	0	4	0	
CHATHAM	54	44	59	40	49	-3	.1	.7	.1	17.8	178	27.1	150	87	68	0	0	4	0	
MI ALPENA	62	35	73	27	49	-1	.1	.5	.1	10.2	165	13.5	153	91	34	0	2	1	0	
DETROIT	67	40	76	29	54	-3	.3	.3	.2	9.3	118	10.9	102	80	32	0	2	2	0	
FLINT	67	41	76	32	54	-1	.2	.5	.1	8.3	112	10.3	101	88	39	0	1	2	0	
GRAND RAPIDS	68	40	79	28	54	-2	.2	.6	T	10.7	127	13.3	122	68	25	0	2	0	0	
HOUGHTON LAKE	65	37	77	29	51	-1	.5	0	.3	7.3	124	9.4	115	82	29	0	3	2	0	
LANSING	66	40	77	31	53	-2	.1	.5	.1	9.2	128	11.0	108	84	34	0	1	2	0	
MARQUETTE	60	32	75	17	46	-2	.1	.8	.1	8.4	93	14.3	122	86	35	0	4	1	0	
MUSKEGON	64	39	79	28	52	-2	.1	.5	.1	7.3	91	9.6	86	77	36	0	3	2	0	
SAULT STE. MARIE	62	33	76	24	47	-1	.5	.2	.5	6.9	113	10.2	112	83	33	0	4	1	0	
MN ALEXANDRIA	65	41	76	31	53	-1	.4	.3	.3	2.8	54	3.9	65	82	38	0	1	2	0	
DULUTH	57	36	73	23	47	-2	.6	.1	.5	5.0	88	6.8	94	83	35	0	2	3	1	
INT'L FALLS	62	38	75	28	50	1	.6	.1	.6	2.4	56	3.5	66	79	37	0	2	3	1	
MINNEAPOLIS	67	44	78	36	56	-1	1.2	.5	1.2	11.8	219	13.6	216	81	44	0	0	1	1	
ROCHESTER	64	41	75	31	52	-3	.8	.1	.8	7.0	109	9.0	129	81	45	0	1	3	1	
MS GREENWOOD	78	60	85	48	69	-2	.5	.6	.5	15.0	96	26.3	111	93	61	0	0	1	1	
JACKSON	83	60	87	48	71	0	T	-1.2	T	21.9	137	36.0	154	94	49	0	0	1	0	
MERIDIAN	84	57	87	46	70	0	T	-1.0	T	18.7	120	31.0	134	98	46	0	0	0	0	
MO CAPE GIRARDEAU	76	56	82	46	66	-	1.6	.5	1.1	18.8	154	20.2	115	92	55	0	0	2	2	
COLUMBIA	70	51	79	42	61	-2	.9	.1	.7	15.0	153	15.8	131	92	56	0	0	4	1	
KANSAS CITY	69	50	75	38	59	-4	3.3	2.3	1.6	12.4	146	13.6	133	90	57	0	0	4	3	
SAINT LOUIS	73	52	81	38	63	-1	1.9	1.1	1.2	14.1	150	15.8	130	95	54	0	0	4	2	
SPRINGFIELD	72	53	79	42	63	-1	.9	.1	.5	15.4	151	16.7	127	86	54	0	0	3	0	
MT BILLINGS	48	32	66	25	40	-13	1.5	1.0	.6	3.4	76	3.8	70	94	52	0	4	5	2	
GLASSGOW	49	33	72	27	41	-12	1.5	1.1	.8	2.2	110	2.4	86	87	57	0	4	5	2	
GREAT FALLS	47	29	63	23	38	-14	1.1	.6	.9	3.0	81	3.4	68	83	46	0	6	2	1	
HAVRE	51	33	67	28	42	-11	2.1	1.8	2.1	3.2	114	4.2	120	91	43	0	4	2	1	
HELENA	47	30	61	23	39	-12	1.1	.8	.7	2.1	84	2.5	81	85	42	0	6	3	1	
KALISPELL	57	30	66	24	43	-7	.2	.2	.1	4.1	146	6.0	120	90	30	0	5	2	0	
MILES CITY	51	35	72	26	43	-13	1.2	.7	.7	2.2	65	2.5	64	85	47	0	4	2	2	
MISSOULA	53	31	64	28	42	-9	.6	.3	.3	3.8	146	5.3	126	90	41	0	4	3	0	
NE GRAND ISLAND	66	45	74	37	56	-4	1.0	.2	.7	7.8	126	8.8	131	82	47	0	0	3	1	
LINCOLN	69	45	76	35	57	-3	.5	.4	.2	7.5	112	9.0	122	89	50	0	0	3	0	
NORFOLK	69	44	76	36	57	-2	.4	.4	.3	7.7	138	9.1	138	82	37	0	0	2	0	
NORTH PLATTE	67	41	80	33	54	-2	.3	.4	.2	4.8	104	5.4	104	83	41	0	0	4	0	
OMAHA	67	47	74	40	57	-3	.4	.5	.3	10.5	152	12.7	159	81	46	0	0	3	0	
SCOTTSBLUFF	61	33	79	15	47	-9	1.3	.7	1.3	5.6	147	5.8	145	83	35	0	4	1	1	
VALENTINE	62	39	81	32	50	-5	2.2	1.6	1.1	6.8	155	6.9	141	78	41	0	1	2	1	
NV ELY	51	25	68	21	38	-10	.1	.2	.1	3.7	137	6.1	169	84	30	0	7	1	0	
LAS VEGAS	78	55	89	51	67	-5	0	.1	0	1.6	160	2.4	141	32	11	0	0	0	0	
RENO	59	30	67	26	44	-9	.2	0	.2	3.2	213	5.9	179	87	29	0	6	1	0	
WINNEMUCCA	58	29	68	23	44	-9	.1	0	.1	2.9	138	4.8	133	75	23	0	5	2	0	
NH CONCORD	61	36	76	28	49	-5	.5	.2	.2	15.0	183	21.1	169	91	46	0	3	5	0	
NJ ATLANTIC CITY	68	41	75	33	55	-4	.1	.7	.1	13.6	136	19.4	121	89	38	0	0	1	0	
NM ALBUQUERQUE	80	47	85	42	64	1	T	.1	T	.6	46	2.4	126	38	9	0	0	1	0	
CLOVIS	76	46	82	42	61	-3	.2	.2	.2	1.4	54	2.8	88	82	24	0	0	1	0	
ROSWELL	82	52	87	47	67	-2	.5	.4	.5	1.2	109	1.8	113	56	20	0	0	1	1	
NY ALBANY	60	39	74	33	49	-7	.6	.2	.6	15.4	190	21.1	183	90	44	0	0	1	1	
BINGHAMTON	59	37	77	32	48	-6	.7	.0	.7	13.0	160	17.0	143	79	40	0	1	1	1	
BUFFALO	65	40	82	33	53	-2	.3	.4	.2	7.5	90	10.2	78	84	35	0	0	2	0	
NEW YORK	63	46	72	43	55	-5	.1	.7	.1	20.1	191	27.2	178	71	43	0	0	1	0	
ROCHESTER	62	39	81	34	50	-5	.4	.2	.3	7.7	104	10.3	93	84	38	0	0	2	0	
SYRACUSE	62	37	80	34	50	-6	.7	0	.7	10.1	115	13.1	99	92	45	0	0	1	1	
NC ASHEVILLE	76	48	81	37	62	0	.6	.3	.4	12.6	108	21.5	124	98	51	0	0	2	0	
CHARLOTTE	77	54	85	43	65	-2	.2	.7	.2	9.5	92	17.2	103	83	40	0	0	2	0	
GREENSBORO	74	48	84	39	61	-4	1.1	.3	.8	13.1	136	18.3	120	91	40	0	0	3	1	
HATTERAS	73	53	76	41	63	-3	T	.9	T	15.1	154	31.7	184	90	48	0	0	0	0	
NEW BERN	79	54	84	44	66	-2	.2	.7	.2	13.8	148	25.8	160	96	41	0	0	1	0	
RALEIGH	76	49	84	39	62	-4	.8	0	.8	12.9	143	20.7	140	89	39	0	0	3	1	
WILMINGTON	77	52	83	43	65	-5	.1	.8	.1	12.2	124	24.4	157	96	46	0	0	1	0	
ND BISMARCK	57	35	73	25	46	-7	1.4	.9	.6	3.7	106	4.2	98	83	40	0	3	3	2	
FARGO	59	38	69	30	49	-5	1.1	.6	.6	3.7	90	4.4	96	79	44	0	2	3	1	
GRAND FORKS	57	37	71	30	47	-6	1.0	.5	.5	3.4	103	4.0	98	80	48	0	2	2	1	
WILLISTON	53	34	78	27	43	-10	1.8	1.5	1.5	2.9	104	3.3	97	85	53	0	4	3	1	
OH AKRON-CANTON	69	41	81	29	55	-2	.8	.1	.7	10.4	113	13.3	101	75	35	0	2	2	1	
CINCINNATI	70	47	78	34	58	-3	.9	.1	.9	12.6	121	15.3	97	87	45	0	0	2	1	
CLEVELAND	67	40	80	28	54	-3	.2	.5	.2	8.6	96	11.0	86	80	36	0	2	2	0	
COLUMBUS	70	43	82	30	57	-3	1.0	.2	1.0	10.0	104	11.9	87	82	34	0	2	2	1	

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

+100 = NORMAL & ACTUAL NEAR THE SAME

Weather Data for the Week Ending May 14, 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
DAYTON	68	46	77	32	57	-3	.6	-.2	.6	10.5	115	12.6	95	76	39	0	1	1	1
TOLEDO	68	39	76	27	53	-4	.4	-.2	.3	8.4	111	9.8	92	88	38	0	2	2	0
YOUNGSTOWN	66	36	77	25	51	-5	.3	-.4	.2	10.2	111	12.5	93	86	39	0	4	2	0
OK OKLAHOMA CITY	73	55	83	45	64	-3	3.6	2.4	2.6	8.4	106	12.9	133	91	58	0	0	3	2
TULSA	77	56	83	46	67	-1	3.8	2.7	2.0	10.0	99	14.9	121	95	59	0	0	4	3
OR ASTORIA	61	45	68	40	53	2	1.5	.8	.8	15.7	106	37.9	125	93	64	0	0	3	1
BURNS	54	31	61	28	42	-8	.1	-.1	.1	5.0	263	8.8	196	77	42	0	6	1	0
MEDFORD	63	38	74	31	51	-6	.3	.1	.2	5.1	142	11.7	131	95	47	0	1	3	0
PENDELTON	61	40	68	38	51	-6	.1	-.2	T	4.3	148	6.5	125	81	37	0	0	2	0
PORTLAND	65	46	77	43	55	-1	.8	.3	.4	9.9	127	23.9	141	89	46	0	0	3	0
SALEM	64	41	76	37	52	-1	.7	.3	.4	12.8	149	29.2	151	95	56	0	0	3	0
PA ALLENTOWN	68	39	80	33	54	-5	.5	-.4	.5	14.1	133	20.2	132	81	34	0	0	1	0
ERIE	64	40	77	32	52	-2	.8	.1	.6	8.2	95	11.0	89	75	37	0	1	2	1
HARRISBURG	67	41	78	36	54	-6	.5	-.3	.4	14.0	154	19.6	147	75	34	0	0	2	0
PHILADELPHIA	70	47	81	40	58	-3	.1	-.6	.1	14.9	154	21.2	149	77	28	0	0	1	0
PITTSBURGH	68	38	79	28	53	-5	.3	-.6	.2	9.2	97	12.1	88	73	33	0	2	2	0
SCRANTON	63	38	80	34	50	-7	.7	0	.7	13.5	173	16.2	146	78	39	0	0	1	1
RI PROVIDENCE	60	44	70	39	52	-4	.3	-.6	.1	20.9	183	30.2	177	80	42	0	0	4	0
SC CHARLESTON	80	58	86	51	69	-2	T	-.9	T	16.0	163	26.6	176	95	45	0	0	0	0
COLUMBIA	82	54	90	45	68	-2	.2	-.7	.1	14.7	129	22.7	133	94	36	1	0	2	0
FLORENCE	81	55	87	46	68	-2	T	-.7	T	14.1	152	22.8	161	96	44	0	0	1	0
GREENVILLE	78	54	84	47	66	-1	.9	0	.7	12.1	92	19.9	99	90	49	0	0	2	1
SD ABERDEEN	61	39	74	31	50	-5	1.2	.6	1.0	4.6	105	5.0	98	85	47	0	2	2	1
HURON	63	41	74	31	52	-4	1.2	.6	.8	4.9	107	5.0	98	88	52	0	1	3	1
RAPID CITY	59	36	77	28	47	-7	.7	.2	.7	3.8	86	4.1	85	80	39	0	3	3	1
SIoux FALLS	67	42	78	32	54	-2	.2	.5	.2	8.9	153	9.7	141	88	46	0	1	1	0
TN CHATTANOOGA	78	55	85	46	66	0	.4	-.5	.3	10.6	76	17.7	78	90	46	0	0	2	0
KNOXVILLE	78	53	84	47	65	-1	.7	-.1	.5	9.4	76	13.9	68	93	48	0	0	3	0
MEMPHIS	78	60	84	47	69	-1	3.2	2.0	1.8	16.0	106	20.8	90	90	55	0	0	3	2
NASHVILLE	76	53	83	38	64	-2	.1	-.9	.1	12.2	92	17.7	85	84	49	0	0	2	0
TX ABILENE	81	59	87	52	70	-1	.4	-.4	.2	2.9	53	5.2	75	80	45	0	0	4	0
AMARILLO	73	45	83	39	59	-5	.9	.3	.9	2.7	87	5.7	150	92	44	0	0	2	1
AUSTIN	81	64	84	59	72	-1	2.2	1.2	2.0	8.4	111	13.3	112	88	52	0	0	4	1
BEAUMONT	79	70	81	58	74	-1	1.1	0	1.0	6.5	63	16.0	92	96	72	0	0	2	1
BROWNSVILLE	89	75	92	73	82	3	.1	-.4	T	.8	24	4.5	76	87	56	4	0	2	0
CORPUS CHRISTI	82	72	86	66	77	-1	2.1	1.5	1.8	5.1	106	9.2	116	99	72	0	0	2	1
DEL RIO	84	68	90	64	76	-1	.2	-.3	.1	1.3	33	3.0	58	74	50	1	0	2	0
EL PASO	84	53	87	44	69	-2	0	-.1	0	1.8	300	2.7	208	41	10	0	0	0	0
FORT WORTH	79	61	88	53	70	-3	.5	-.6	.2	5.8	64	9.6	77	85	55	0	0	3	0
GALVESTON	79	70	84	62	75	0	.5	-.3	.5	3.6	49	11.1	92	95	75	0	0	1	0
HOUSTON	82	68	86	56	75	1	1.8	.8	1.2	6.5	63	12.5	76	94	60	0	0	5	1
LUBBOCK	80	51	88	43	66	-2	.8	.2	.6	2.2	65	5.2	127	92	33	0	0	2	1
MIDLAND	88	60	94	51	74	4	0	-.5	0	.3	12	1.8	53	76	21	4	0	0	0
SAN ANGELO	83	62	90	53	73	0	.2	-.4	.1	2.2	51	4.7	84	88	48	1	0	2	0
SAN ANTONIO	81	65	86	57	73	-1	.6	-.2	.4	4.6	73	7.6	83	86	53	0	0	3	0
VICTORIA	83	69	89	60	76	0	1.2	-.2	1.0	5.7	83	11.2	110	92	58	0	0	3	1
WACO	83	62	88	54	73	0	1.0	-.1	.5	4.6	49	8.8	69	88	53	0	0	3	1
WICHITA FALLS	79	55	88	44	67	-3	1.2	-.2	.5	4.6	61	7.4	81	93	55	0	0	3	2
UT BLANDING	66	37	75	28	52	-3	T	-.1	T	2.5	132	5.6	156	60	21	0	1	0	0
CEDAR CITY	63	35	72	31	49	-5	.4	-.2	.4	4.6	159	6.5	167	68	23	0	2	2	0
SALT LAKE CITY	55	37	72	34	46	-11	1.2	-.9	1.2	7.3	138	9.8	140	84	42	0	0	3	1
VT BURLINGTON	55	39	72	34	47	-6	1.4	-.8	.6	11.6	171	16.4	171	89	53	0	0	4	1
VA NORFOLK	71	50	82	46	61	-4	T	-.8	T	11.8	130	20.1	135	86	35	0	0	0	0
RICHMOND	76	47	81	42	62	-3	T	-.8	T	11.9	134	17.4	126	91	34	0	0	0	0
ROANOKE	74	42	79	33	58	-5	.4	-.4	.3	15.0	161	20.4	145	79	39	0	0	2	0
WA COLVILLE	64	35	70	33	50	-4	.4	.1	.3	6.4	183	11.4	168	84	45	0	0	3	0
QUILLAYUTE	61	40	67	33	50	0	1.1	-.1	.6	19.8	86	53.8	114	98	58	0	0	3	1
SEATTLE-TACOMA	63	44	75	40	54	-1	.4	0	.3	6.6	87	18.1	109	90	44	0	0	2	0
SPOKANE	61	35	68	31	48	-5	.3	0	.2	3.7	103	7.8	105	88	30	0	1	4	0
YAKIMA	67	38	73	34	53	-3	.1	0	.1	2.8	280	6.4	206	68	28	0	0	3	0
WV BECKLEY	70	42	78	30	56	-2	.2	-.6	.2	5.8	55	7.8	48	83	32	0	1	2	0
CHARLESTON	75	42	85	31	58	-4	.5	-.4	.4	9.1	89	13.0	83	86	32	0	2	2	0
HUNTINGTON	73	45	84	33	59	-4	.4	-.5	.3	8.6	83	11.9	77	86	37	0	0	2	0
PARKERSBURG	73	43	83	32	58	-4	.2	-.7	.1	11.4	112	15.2	96	84	31	0	2	2	0
WI GREEN BAY	61	37	69	27	49	-4	.6	-.1	.5	5.1	78	7.3	91	84	40	0	3	3	0
LA CROSSE	66	43	76	33	55	-3	.9	-.1	.3	6.1	81	7.7	90	78	37	0	0	3	0
MADISON	65	37	74	25	51	-4	.1	-.6	.1	6.5	87	9.2	103	92	46	0	3	2	0
MILWAUKEE	59	38	68	29	49	-5	1.9	1.4	1.8	12.0	156	15.0	155	86	49	0	3	3	1
WAUSAU	63	39	75	31	51	-3	.2	-.5	.3	4.3	61	6.4	73	82	34	0	3	1	0
WY CASPER	53	30	74	21	42	-10	.3	-.3	.2	4.9	129	5.8	132	81	36	0	5	5	0
CHEYENNE	55	30	75	18	42	-8	.3	-.2	.1	7.1	209	7.1	178	95	46	0	4	4	0
LANDER	46	29	69	21	38	-13	1.7	1.1	1.4	7.1	142	7.7	135	83	43	0	5	4	1
SHERIDAN	52	30	71	24	41	-10	.4	-.1	.4	1.8	38	2.1	38	78	41	0	5	1	0
PR SAN JUAN	90	77	94	72	83	3	1.8	.6	1.3	8.4	92	9.3	64	88	64	5	0	3	1

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

## National Agricultural Summary

May 9 to 15

**HIGHLIGHTS:** Rain from the Great Plains through the Corn Belt replenished soil moisture but delayed land preparation and planting. Growers in this region generally had 3 to 4 days suitable for fieldwork, while the rest of the Nation had 4 to 6 days available. Soil moisture was mostly adequate to surplus except in portions of the Southeast and south Texas where some shortages were evident. Corn planting reached 45% completion, 13 points behind the average. Soybeans were 7% planted, 9 points behind normal. Sorghum was 32% planted, lagging the average by 5 points. Cotton planting advanced to 50% completion, compared with 53% a year earlier. Winter wheat was 22% headed, well behind the average development of 42% for this date. Spring wheat was 73% planted, 8 points ahead of normal; 35% of the acreage had emerged. Rice planting reached 61% finished, 13 points behind 1982; 35% of the acreage had emerged. Frost caused limited damage to fruit trees and tender vegetables in some northern producing areas. Pastures were in fair to good condition in most regions. However, additional moisture is needed to aid growth in south Texas. Cattle were in fair to good condition.

**SMALL GRAINS:** Winter wheat was in fair to mostly good condition. Rainfall across the major producing areas replenished soil moisture. Winter wheat was 22% headed in the 15 major producing States, 20 points behind the average progress for this date and 13 points slower than last year when 35% of the crop had headed. Fourteen percent of the Texas acreage had turned color compared with the 18% average.

Spring wheat seeding reached 73% completion in the five major producing States, ahead of last year's 64% and the 65% average. Thirty-five percent of the total intended acreage had emerged compared with 33% a year earlier and the average of 45%. Rain or snow replenished soil moisture in most producing areas but slowed the previous rapid planting pace.

**CORN:** Corn planting was 45% completed in the 17 major producing States, 13 points behind the average. Progress was behind normal in all States except Georgia. Farmers planted 26% of their acreage during the week, despite rains that slowed progress in most regions. Producers in Iowa planted 38% of their acreage during the week, while those in Nebraska and Colorado planted 35%. Emerged plants were in fair to good condition with adequate moisture available for growth. Growers began sidedressing the crop across the South.

**SORGHUM:** Sorghum planting advanced as far north as Nebraska. Producers had planted 32% of the crop compared with 33% a year ago and the average of 37%. Planting was underway in all States except South Dakota. Progress ranged from 2% finished in Kansas to 69% complete in Texas. Rain delayed activities in much of the Great Plains. Oklahoma was the only State making average progress for this date.

**SOYBEANS:** Soybean planting advanced to 7% completion in the 18 major producing States, behind last year's 23% and the average of 16%. Showers delayed planting in most regions and caused all States to lag the normal except Michigan, which was 10 points ahead of the average. Planting had begun in all States except Kentucky and ranged from 2% finished in Kansas to 20% complete in Michigan.

**COTTON:** Fifty percent of the cotton crop had been planted in the 14 major producing States compared with 53% last year and the 56% average for this date. Progress was behind average in Alabama, California, Georgia, Missouri, New Mexico, North Carolina, Tennessee, and Texas. Texas seeding was 24% finished, two-thirds of the average. Growers

in Tennessee planted 44% of their acreage during the week, while Arkansas and Mississippi planted 38 and 33%, respectively. Growers in Arizona and Texas replanted some fields due to poor emergence. Four percent of the early-planted fields were squaring in Texas.

**OTHER CROPS:** Rice was 61% planted in the five major States, 18 points behind average; 35% of the intended acreage had emerged compared with 45% last year. Fieldwork was active in California as winds aided the drying of fields.

Peanut planting was nearly complete in Florida. Percentages planted in the other major States were: Alabama, 81%; Georgia, 76%; South Carolina, 74%; Virginia, 70%; North Carolina, 57%; and Texas, 16%.

Tobacco transplanting gained momentum. Plants were rated fair to good. Early-planted fields in South Carolina were growing out of the freeze injury sustained last month.

**FRUITS AND NUTS:** Tart cherries and apples were in full bloom in New York and Michigan. Frost damaged some Michigan orchards. Georgia peach producers prepared for the harvest of early varieties.

Florida's citrus groves were in very good condition. However, additional moisture would be beneficial, and growers actively irrigated. Weather conditions were ideal and producers actively picked Valencia oranges and grapefruit.

Citrus picking in the Rio Grande Valley of Texas began tapering off. Valencia oranges and grapefruit were shipped. Peach orchards had a moderate to heavy fruit set. Pecans showed good growth.

Arizona growers picked lemons and grapefruit on demand only. The Valencia orange harvest was active statewide. Citrus groves continue in good condition.

Harvesting of Burlat cherries was virtually complete in California, while Larian cherries were about ready for picking. Kiwifruit and olives were beginning to bloom. Producers thinned peaches, plums, and nectarines. Grade out of Navel oranges was heavy. However, Valencia orange quality was good. Farmers sprayed and irrigated almonds and walnuts.

**VEGETABLES:** Frost damaged some early-planted vegetables in the northernmost producing areas. Planting gained momentum in all regions. New York producers actively planted onions, nearly finishing in Orange County. New Jersey growers continued cutting asparagus, spinach, and lettuce.

Florida's vegetable shipments increased 11% from the previous week. Crops showing declines included snap beans, cabbage, cauliflower, parsley, radishes, and strawberries. Watermelon harvesting gained momentum in the Southwest.

Spring onion harvesting neared completion in Texas, while summer onion harvesting gained momentum. Watermelon picking was getting underway in the Rio Grande Valley. Showers benefited all vegetables.

California growers harvested light volumes of artichokes and asparagus. Broccoli and cauliflower cutting was active on the central coast. Lettuce harvesting increased on the central coast but ended in the San Joaquin Valley. Carrot and celery harvesting continued active. Digging spring potatoes increased in the Kern District. Strawberry harvesting was active.

**PASTURES AND LIVESTOCK:** Pasture and ranges were in fair to good condition in most regions. Rain from the Great Plains eastward replenished soil moisture and caused some improvement in Texas ranges. However, additional moisture is needed to aid growth of summer grasses in south Texas. Cattle were in fair to good condition. Herds moved to summer ranges in some areas.

**CROP PROGRESS**

FOR WEEK ENDING MAY 15

WINTER WHEAT % HEADED				SPRING WHEAT % PLANTED				COTTON % PLANTED				RICE % PLANTED			
	1983	1982	AVG.		1983	1982	AVG.		1983	1982	AVG.		1983	1982	AVG.
CALIF	85	90	96	IDAHO	85	91	90	ALA	86	83	88	ARK	58	75	74
COLO	1	4	2	MINN	83	73	76	ARIZ	98	94	95	CALIF	5	30	65
IDAHO	0	0	0	MONT	85	65	60	ARK	71	83	66	LA	81	86	90
ILL	10	26	28	N D	57	47	51	CALIF	95	99	99	MISS	80	90	81
IND	3	15	35	S DAK	92	92	91	GA	66	79	83	TEX	95	95	97
KANS	5	25	40					LA	75	76	69				
MO	19	31	38	5 STATES	73	64	65	MISS	88	90	73	5 STATES	61	74	79
MONT	0	0	0					MO	46	100	76				
NEBR	0	0	2					N MEX	65	80	86				
OHIO	2	5	1					N C	67	81	78				
OKLA	50	75	85					OKLA	15	2	10				
OREG	4	2	8					S C	94	97	91	ARK	18	31	43
S DAK	0	0	0					TENN	54	79	70	CALIF	0	2	26
TEX	61	81	80					TEX	24	25	36	LA	67	79	84
WASH	7	0	3									MISS	35	55	65
								14 STATES	50	53	56	TEX	83	84	88
15 STATES	22	35	42									5 STATES	35	45	56

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

THESE 5 STATES PRODUCED 96% OF THE 1982 SPRING WHEAT CROP.

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

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

SOYBEANS % PLANTED				CORN % PLANTED				SORGHUM % PLANTED			
	1983	1982	AVG.		1983	1982	AVG.		1983	1982	AVG.
ALA	14	17	22	COLO	47	71	55	COLO	3	6	6
ARK	4	11	10	GA	97	98	96	KANS	2	5	10
GA	18	22	23	ILL	47	91	65	MO	8	37	24
ILL	5	41	21	IND	30	85	45	NEBR	5	1	15
IND	5	50	10	IOWA	66	63	69	OKLA	15	10	15
IOWA	10	8	12	KANS	45	55	50	S DAK	0	0	5
KANS	2	4	5	KY	16	79	63	TEX	69	68	71
KY	0	17	11	MICH	20	75	48	7 STATES	32	33	37
LA	8	16	17	MINN	41	59	56				
MICH	20	25	10	MO	47	78	54				
MINN	7	15	20	NEBR	50	20	60				
MISS	8	17	13	N C	89	96	93				
MO	4	22	14	OHIO	35	95	55				
NEBR	5	1	15	PA	28	51	43				
N C	12	23	18	S DAK	9	24	40				
OHIO	10	65	25	VA	70	80	73				
S C	7	15	20	WIS	30	39	38				
TENN	3	12	13								
18 STATES	7	23	16	17 STATES	45	66	58				

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

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

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

**State Summaries of Weather and Agriculture**

ALABAMA: Air temperatures at or above normal. Soil temperatures varied from 4° below to 3° above normal. Rainfall over 1.00 in. Soil moisture adequate. Fieldwork: 5.5 days. Corn planted 90%, 1982 90%. Soybeans planted 14%, 1982 17%, average 22%. Cotton planted 86%, 1982 83%, average 88%. Peanuts planted 81%, 1982 80%, average 71%. Sorghum planted 29%, 1982 29%, average 29%. Wheat heading 85%, 1982 98%, average 96%. Wheat turning color 18%, 1982 25%, average 37%. Activities: Planting corn, cotton, peanuts, soybeans, and sorghum, spreading fertilizer. Conditions: Corn, wheat, pasture, livestock, fair to good; pasture feed mostly adequate, stored feed short to adequate. Plowing 79%.

ALASKA: High pressure persisted north of the Arctic Coast...resulting in continued cold weather over the Brooks Range and northward. A heat trough developed over Interior as clear skies allowed temperatures to climb into the mid 60's over most Interior sections. A series of low pressure centers moved northward across the Alaska Peninsula and brought partly to mostly cloudy weather to the

southernmost portions of the State along with temperatures in the upper 50's to near 60°.

Sunny mild weather conditions throughout the Railbelt enabled growers up to 7 suitable days for fieldwork...which thus progressed on schedule. Excellent progress was made on barley, oat seeding, with 25% of the crop seeded compared to only 5% last year. Warmer and dry soils allowed stepped up potato and vegetable planting. Top and subsoil moisture supplies adequate to surplus. Livestock in mostly excellent condition.

ARIZONA: Series weather disturbances north, produced strong gusty winds, cooler temperatures. Trace amounts rain reported northeastern portion State. Average temperatures ranged normal to 5° below normal.

Combining wheat, barely underway, most activity centered western area. Around Yuma area growers preparing for harvest full swing basis, limited harvest already started. Central region small grain crops mostly 75% turned color, some limited harvest earlier planted fields. Southeastern counties wheat, barley turning color, no harvest activities undertaken. Alfalfa haying activities

progressed full scale basis, growers irrigating, cutting, baling. Warm weather central, western areas beneficial in decreasing further threats aphids, weevils in hay until weather cools down again in fall. Weed controls applied as needed. Corn, sorghum made average progress. Planting underway Pima, other southeastern counties. Safflower made average progress, crop in flowering stage, some seed set Yuma County. Cotton growers had 98% cotton planted, compared to 94% planted last year, average 95%. Plants emerging Statewide, stands beginning to be established. Some below average crop progress Statewide, mostly due to poor emergence caused by cooler temperatures, dry winds, cloddy soils. Many growers replanting portions fields as unfavorable conditions existed. Several vegetable crops being harvested central portions, little to no activity western parts State. Chipper potatoes, table potatoes, dry onions among crops available harvest. Some mixed vegetables being harvested although mixed vegetable season rapidly winding down in valley. Peaches picked on increased scale Queen Creek area. Cantaloups, watermelons, honeydew melons progressed well. Spraying for powder mildew occurring Yuma County where temperatures quite favorable rapid melon growth. Table grapes Yuma County sizing satisfactorily, also being sprayed for mildew control, berry sizing. Valencia orange market relatively strong Statewide. Other activity limited picking grapefruit, lemons as orders filled. Citrus groves remained good condition.

**ARKANSAS:** Temperatures averaged 3° below normal. Highest was 86° and lowest 35°. Average rain-fall amounts exceeded 1.50 in. and most was 7.59. A cool wet week slowed planting progress of cotton, rice and soybeans. Wet weather limited fieldwork to 4.0 days. Soil moisture was adequate. Cotton planted 71%, 83% 1982, 66% average. Rice planted 58%, 75% 1982, 74% average. Rice emerged 18%, 31% 1982, 43% average. Soybeans planted 4%, 11% 1982, 10% average. Corn planted 84%, 86% 1982, 77% average. Sorghum planted 46%, 73% 1982, 65% average. Wheat 91% headed and in generally good condition. Oats were 95% headed and good condition. Pastures in fair condition. Livestock generally in good condition.

**CALIFORNIA:** Weekly average temperatures below normal Statewide for third in a row and below normal five of the last six. Cold air again pushed south but trajectory was mostly overland. Precipitation confined to the Sierra and northern mountains and amounts were light; 0.02 to around 0.10 in. Largest total Statewide at Eureka and less than 0.50 in. Below freezing temperatures generally confined to higher elevation mountain areas.

Fieldwork very active with north winds assisting in drying rice fields. Rice 5% planted, 30% last year, 65% average. Pesticide being applied to rice fields. Small grains showing satisfactory progress. Winter wheat 85% headed, 90% last year and 96% average. Cotton 95% planted, 99% last year, 99% average. Some reseeded, some stands spotty, with growth slower due to cool weather. Dry bean plantings continue. Cutting of alfalfa and grain hay continues. Sugarbeets being harvested. Corn planting active. Improved weather conditions aiding crop development. Apricot harvest to begin around 1st of June. Grower spraying for Navel orange worm. Burlat cherry harvest virtually complete--considerable losses reported. Larian cherries about ready. Southern San Joaquin Valley grapes being thinned and suckered. Sulphur dust and gibberellin application in progress. In Napa Valley area some vineyards still not worked. Vine growing behind normal for time of year. Kiwifruit pollinators just starting to

bloom--bees moved into vineyards. Olive bloom started. Peaches, Plums, nectarines thinned. In northern Sacramento Valley little thinning necessary due to rain brown rot. Peaches sprayed for aphids. Pomegranates in bloom. Uneven set reported in prunes--hail damage evident in some orchards. Navel orange--heavy gradeout. Valencia quality good. Almonds and walnuts being irrigated. Almonds treated for scale and walnuts for cooling moth, scale, aphids and blight. Artichoke supplies light. Asparagus volume still light. Planting brussels sprouts. Cantaloup harvest to start desert next week. Carrot harvest active desert, light harvest Salinas-San Joaquin Valleys. Broccoli, cauliflower harvests active Central Coast. Celery harvest active South Coast. Sweet corn harvest increasing Desert. Lettuce harvest increasing Central Coast, ending San Joaquin Valley. Grading dry onions increasing Desert, harvest red onions started Fresno. Digging spring potatoes increasing Kern District. Strawberry harvest active. Transplanting sweet-potatoes continues. Market tomato harvest to start Desert this week. Cannery tomatoes blooming, setting desert. Planting continues late districts. Warm weather dry winds caused maturing range feed but more than normal green grass available. Movement cattle sheep summer grazing, market continues increase. Stock water supplies adequate.

**COLORADO:** Unsettled weather over most of State. Light rain and snow showers early in week. On 13th and 14th widespread precipitation in all areas except the San Luis Valley. Up to 8 in. new snow near eastern Foothills. Total precipitation up to 0.50 in. east and west of Continental Divide. Temperatures near normal in southeast; 2 to 3° below normal elsewhere.

Winter wheat in excellent condition; 54% jointed, about normal; 1% headed, last year 4%, average 2%. Spring fieldwork has nearly caught up to normal progress. Corn planting 47% complete, last year 71%, average 55%. Sorghum 3% planted, last year and average 6%. Barley, oats, and spring wheat in good condition. Barley 82% seeded, last year 92%, average 88%; 51% emerged, 68% in 1982, average 74%. Spring wheat 79% seeded vs. 89% in 1982. Oats 53% seeded, 82% last year, 80% average. Days suitable for fieldwork: 3.0. Topsoil moisture adequate except in southeast. Subsoil moisture adequate Statewide. Range and pasture condition good. Livestock in good condition.

**FLORIDA:** Generally dry conditions continued with a blocking ridge of high pressure remaining over the State. Afternoons were mild under sunny skies but nights were cool. Temperatures averaged as much as 5 to 10° below normal. Rainfall limited to isolated showers mainly near east Coast, mostly under 0.25 in. Some sections of State have had no significant rain for the past 30 days.

Soil moisture mostly adequate, a few scattered dry areas north, lower east Coast. Scattered wet areas in Panhandle. Corn, tobacco growth slow. Peanut planting full swing. Soybean planting underway. Haymaking continues. Small grains improving, however, wheat yield prospects reduced due to adverse weather earlier. Sugarcane good conditions. Pastures continue fair to good. Growth has improved as temperatures warm. Low areas improving as soils dry. However, rains would benefit most higher ground pastures. Cattle, calves in fair to generally good condition. Calf marketing increasing. Citrus grove condition very good most areas, rain needed everywhere, irrigation very active. Trees continue dropping excessive new crop fruit. New foliage hardening up. Valencia harvest active with near ideal picking weather. The majority

of remaining grapefruit being picked for fresh fruit packing houses. Mostly fair, dry weather with warm days, mild nights prevailed in vegetable areas. Irrigation increased due to little or no rainfall winds light to moderate. Total shipments increased 11% from previous week. Harvest gained Chinese cabbage, cucumbers, eggplant, lettuce, okra, onions, potatoes, southern peas, tomatoes and watermelons. Volume about steady carrots, celery, sweet corn, escarole, peppers and squash. Shipments declined snap beans, cabbage, cauliflower, parsley, radishes and strawberries. Harvest of strawberries mostly complete in Hillsborough Manatee area. Watermelon harvest gaining momentum in southwest area. Fairly good supplies expected this week.

**GEORGIA:** Generally fair and mild. Light rain scattered mainly over northwestern portions early in week and over northern portion during latter part. Rainfall ranged up to 0.25 in. in the extreme north, east central and central portion. No rain measured in southeast quadrant. Average temperatures below seasonal norms in central and south portions with departures in the 2 to 3° range. Departures of 1 to 2° along a curved swath extending from Columbus to Atlanta to Athens. Mostly dry 14th and 15th but thunderstorms invaded the State late 15th afternoon and night. Rainfall totals averaged 1.00 to 2.00 in. north and 0.50 in. to trace south. Temperatures near normal... highs mostly 80's, lows 50's and 60's.

Soil moisture 4% very short, 43% short, 52% adequate. Days suitable for fieldwork 6.0. Farm activities: Land preparation, planting, spraying and haying. Corn 97% planted, last year 98%, 96% average; condition 8% poor, 52% fair, 40% good, sidedressing corn. Cotton 66% planted, last year 79%, 83% average; condition 14% poor, 52% fair, 32% good. Peanuts 76% planted, 80% last year and average; condition 48% fair, 50% good; applying cracking time herbicides. Grain sorghum 28% planted, last year 37%, 32% average; condition 65% fair, 31% good. Soybeans 18% planted, 22% last year, 23% average; condition 51% fair, 47% good. Watermelons 95% planted, 97% last year, 94% average; condition 24% poor, 50% fair, 26% good. Peach harvest expected to start week of May 15, 4% picked last year, 1% average; condition 35% very poor, 16% poor, 27% fair, 22% good. Spraying peach and pecan trees. Apple condition 25% very poor, 29% poor, 32% fair, 14% good, wheat 93% headed, 2% harvested, 5% last year, 1% average; condition 4% very poor, 13% poor, 56% fair, 27% good. Rye condition 6% very poor, 8% poor, 48% fair and 38% good. Other small grain condition 7% poor, 51% fair, 39% good. Pasture 4% poor, 36% fair, 57% good, 3% excellent.

**HAWAII:** Weather was generally favorable for the State's crops. Showers fell early in the week benefiting crops not under irrigation. Warm, sunny days prevailed for the remainder of the week. Papaya production is expected to continue increasing as the crop nears its summer seasonal peak. Watermelon harvest continues and is unusually high for this time of year. Supplies of head cabbage and head lettuce remain heavy.

**IDAHO:** Average temperatures were 6 to 12° below normal across the State. The coldest stations were Caldwell--Idaho Falls--and Malad with 12° below normal. Moscow was the only station which was not below normal and they had only average temperatures. Precipitation amounts were generally above normal with the north receiving the greatest amounts.

Planting progress was slow at best as mother nature provided 3.0 suitable for fieldwork last week. Spring wheat seeded rose to 85% complete compared to 91% in 1982 and 90% average. Barley advanced to 62% seeded versus 79% last year and 81% average. Emergence for spring

wheat stood at 65% versus 69% last year and 65% average. Potatoes reached 47% planted, 18 points behind last year and 11 points behind average. Forage growth was slow on ranges and pastures due to the cool, rainy weather.

**ILLINOIS:** Temperatures averaged 1 to 4° below normal. Precipitation light-moderate northern areas, moderate to heavy central and southern areas.

Soil moisture 2% short, 50% adequate, 48% surplus. Days suitable for fieldwork: 4.3. Corn 47% planted, 1982 91%, average 65%. Soybeans 5% planted, 1982 41%, average 21%. Winter wheat 10% headed, 1982 26%, average 28%; condition 8% excellent, 75% good, 17% fair. Oats 90% seeded, 1982 100%, average 98%; condition 7% excellent, 61% good, 30% fair, 2% poor. Alfalfa condition 11% excellent, 78% good, 11% fair. Pasture condition 15% excellent, 83% good, 2% fair: Supplying 85% livestock roughage requirements. Livestock condition good.

**INDIANA:** Fieldwork averaged 3.0 days. Topsoil and subsoil moisture was rated mostly adequate to surplus. Spring cropland 85% tilled, 1982 95%, average 90%. Corn 30% planted, 1982 85%, average 45%. Corn 15% emerged, 1982 50%, average 25%. Soybeans 5% planted, 1982 50%, average 10%. Wheat mostly good condition. Wheat 3% headed, 1982 15%, average 35%. Wheat 16 in. tall, 1982 14 in., average 16 in. Oats 93%, seeded, 1982 100%, average 93%. Oats 4 in. tall, 1982 4 in., average 5 in. Pasture condition good.

**IOWA:** The week began cool and ended cool with mild conditions during midweek. A late spring freeze occurred the morning of the 15th over the northern and western counties. Precipitation light to moderate with amounts in excess of 1.00 in. confined to the northeast. Soil temperatures at the 4 in. level ranged from mid-50's northwest to mid-60's southeast.

Days suitable 4.3. Plowing completed 85%; 97% last year; 92% normal. Fertilizer applied 86%; 91% last year; 87% normal. Oats seeded 95%; 100% last year; 99% normal. Oats emerged 55%; 93% last year; 85% normal. Corn planted 66%; 63% last year; 69% normal. Corn emerged 6%; 22% last year; 17% normal. Soybeans planted 10%; 8% last year; 12% normal. Topsoil moisture 1% short; 58% adequate; 41% surplus. Subsoil moisture 52% adequate; 48% surplus.

**KANSAS:** Precipitation averaged 0.40 to 0.60 in. west, over 2.00 in. southeast, 1.00 to 1.50 in. elsewhere. Temperatures averaged 55 to 58° west and north central, 60 to 62° east and south central. These were 1° below normal east central and 3 to 5° below normal elsewhere.

Wheat 90% jointed, 95% last year, 90% average; 5% headed, 25% last year, 40% average. Corn 45% planted, 55% last year, 50% average. Sorghum 2% planted, 5% last year, 10% average. Soybeans 2% planted, 4% last year, 5% average. Alfalfa hay first cut 2%, 5% last year, 15% average. Soil moisture continues adequate. Pastures and range condition continues good to excellent Statewide. Cattle moving onto native pasture. Days suitable for fieldwork: 5.0.

**KENTUCKY:** Wet and mild. First of week dry and mild, latter part wet. Temperatures 2° below normal. Precipitation averaged nearly 2.00 in., isolated amounts over 5.00 in.

Soil moisture 62% surplus, 38% adequate. Days suitable 3.0 out of 6. Most areas fieldwork and crop progress two or more weeks behind. Corn planting 16% complete, 79% last year, average 63%, 15% corn emerged. Less than 1% soybeans planted, 17% last year, average 11%. Tobacco plants fair to good, small, with over half under 2 in. Wheat and barley fair to good. Wheat 35%

headed. Pastures mostly good to excellent. Some alfalfa hay and haylage cut.

LOUISIANA: Rainfall average 3.20 to 3.60 north and 1.50 to 3.00 south and central. Temperatures averaged 1 to 2° below normal. High 88°, low 45°.

Soil moisture adequate. Days suitable 4.6. Spring plowing 92%, 94% 1982. Corn planted 92%, 98% 1982, 96% average. Corn emerged 87%, 96% 1982, 92% average, condition fair to good. Cotton planted 75%, 76% 1982, 69% average. Cotton emerged 54%, 57% 1982, 49% average, condition fair to good. Rice planted 81%, 86% 1982, 90% average. Rice emerged 67%, 79% 1982, 84% average, condition fair. Sorghum planted 70%, 64% 1982, 43% average. Sorghum emerged 54%, 56% 1982, 36% average, condition fair to good. Soybeans planted 8%, 16% 1982, 17% average. Soybeans emerged 4%, 8% 1982, 7% average, condition fair to good. Sweetpotatoes transplanted 24%, 45% 1982, 43% average, condition fair. Hay first cutting 25%, 28% 1982. Wheat turning color 43%, 70% 1982, condition fair to good. Wheat harvested 2%, 5% 1982. Sugarcane condition fair to good. Pasture and livestock condition fair to good. Vegetable condition fair.

MARYLAND AND DELAWARE: Weather cool and dry. Temperatures were 3 to 4° below normal western Maryland, mostly 5 to 6° below normal elsewhere. High temperatures were in the high 70's to low 80's, low temperatures were in mid 20 to 30's in western and northern Maryland; to the mid 30's to low 40's elsewhere in Maryland and Delaware. Rainfall occurred mostly on the 8th with totals mostly under 0.25 in. The 14th was partly cloudy and warm with highs in the low to mid 80's and lows in the upper 40's to low 50. The 15th was cloudy and warmer with showers in the afternoon and evening. Highs were in the mid to upper 80's and lows in the low to mid 60's.

Maryland: Since May 1, only about 0.50 in. of rain has fallen, enabling farmers to advance their plowing to the 75% mark; last year 95% plowed. Field corn 65% planted; 80% last year; averaged 55%. Soybeans 10% planted 1983 and 1982; averaged 5% planted. Tobacco auction now closed for year enabled farmers to begin setting plants; less than 5% set; average 5% transplanted by mid-May. High volume at the tobacco auctions brought cash receipts for the 1982 crop, a total of \$58.54 million, the highest value on records dating back to 1909. The seasons price for the 1982 crop averaged \$150.55 per cwt, \$23.95 below 1981 price of \$174.50 and the 3rd highest price on record. Small grain condition remained fair to good. Oats 90% planted, more than two weeks behind normal. Barley 85% headed; 80% last year. Rye 100% headed; 90% last year. Potatoes now 100% planted; two weeks behind normal. Snap beans, sweet corn 70% planted; 45% of these crops planted 1982. Cucumbers 50% planted, 45% last year. Watermelons 55% planted both years. Tomatoes 45% planted; 55% last year. Lima beans 35% planted; 30% planted last year. Apple and peach bloom past, the freeze of May 10 and 11th did little damage to the crops.

Delaware: Fieldwork much advanced with 6.0 days suitable. Plowing at 75%; last year 95%. Corn planting 60% done, last year 80%, average 70%. Soybeans planted less than 5%, last year 30%, average 15%. Vegetable acreages planted: Sweet corn 65%, last year 70%; tomatoes 15%, last year 5%; cucumbers 60%, last year 45%; watermelons, 45%, last year 60%; snap beans 5%, last year 45%. No lima beans. Small grains in good condition with most acreage headed. Topsoil moisture short subsoil adequate.

MICHIGAN: Temperatures averaged 2 to 3° below normal. Precipitation was light for the first time in several weeks. The northern sections of the lower Peninsula had the heaviest amounts which averaged 0.30 in. Fieldwork active after midweek with 4.0 days suitable. Moisture supplies adequate to surplus

all areas. Planting progress behind normal and last year. Corn planting 20% complete, 75% last year 48% average. Soybeans 2% planted, 25% last year, 10% average. Oats 70% planted, 98% last year, 88% average. Sugarbeets 85% planted, 100% last year, 95% average. Some frost damage to cherries and apples in northern areas. Frost damage to vegetables also noted early in week.

MINNESOTA: Temperatures averaged 1 to 6° below normal. High: 80° at Canby, Montevideo, Lamberton, Redwood Falls, and North Mankato. Low: 22° at Warroad. Precipitation averaged near normal for north central, west central, and central, 0.30 to 0.44 in. below normal for southwest and northeast, 0.15 to 0.62 in. above normal elsewhere. Precipitation totals averaged 0.25 to 0.67 in. southwest, west central, north central, and northeast, 0.84 to 1.09 in. elsewhere.

Rain ended dry spell in parts of northwest and west central. Some counties still dry in west central. Wind damage to sugarbeets and small grains in Red River Valley. Wet conditions persist in southern districts; still need at least 2 or 3 warm sunny days to dry topsoil. Pasture and hay growing slowly. Winter grains in good condition. Topsoil moisture: 12% short, 46% adequate, 42% surplus. Average number of days suitable for fieldwork: 4.0. Planted: Spring wheat 83%, 1982 73%, normal 76%; oats 81%, 1982 85%, normal 81%; barley 75%, 1982 65%, normal 68%; corn 41%, 1982 59%, normal 56%; soybeans 7%, 1982 15%, normal 20%; sunflowers 10%, 1982 8%, normal 25%; sugarbeets 88%, 1982 86%, normal 77%; potatoes 26%, 1982 24%, normal 36%; processing peas 56%, 1982 66%, normal 64%; processing sweet corn 27%, 1982 31%, normal 33%. Emerged: Spring wheat 45%, 1982 44%, normal 48%; oats 45%, 1982 59%, normal 55%; barley 39%, 1982 30%, normal 40%.

MISSISSIPPI: Temperatures 5° below normal. Extremes 35 and 88°. Scattered thundershowers at midweek. Heavy rain at end of week with flash flood watch issued all but coastal areas of State.

Soil moisture adequate to surplus. Planting active. Fieldwork 5.0 days suitable, 6.0 last year, 4.4 average. Soybeans 8% planted, 17% last year, 13% average. Cotton 88% planted, 90% last year, 73% average; 30% to stand, 50% last year, 44% average. Rice 80% planted, 90% last year, 81% average. Sorghum 37% planted, 40% last year, 29% average. Corn 82% planted, 88% last year, 85% average; 50% to stand. Winter wheat 92% headed; 3% ripe; condition fair to good. Pasture condition good to fair. Peach condition fair.

MISSOURI: Statewide temperatures averaged 3° below normal, ranging from 4° below normal in the northeast to 1° below normal in the Bootheel. Precipitation was widespread, with an average of 1 in. for the State and almost 2 in. for the Bootheel. The rivers have crested and only the Mississippi south of St. Louis remains above flood level.

Statewide 2.7 days suitable for fieldwork. Corn 47% planted, 76% last year and 54% normal. Grain sorghum 8% planted, 37% last year and 24% normal. Soybeans 4% planted, 22% last year and 14% normal. Cotton 46% planted, 100% last year and 76% normal. Alfalfa hay, 1st cutting, 3% harvested, 10% last year and 14% normal. Winter wheat 19% headed, 31% last year and 38% normal. Wheat is 1% excellent, 23% good, 56% fair and 30% poor. Pasture condition 10% excellent, 59% good, 30% fair and 1% poor. Topsoil moisture supplies 70% surplus and 30% adequate.

MONTANA: Two major storms left heavy precipitation over nearly all the State. The first left as much as 4 feet of snow in mountains and foothills and 6 to 14 in. elsewhere. The second covered a much larger area with 6 to 18 in. of snow. Precipitation from the storms totaled 1 to 3 in. Temperatures mild first and last of

week with very cool temperatures at midweek. Temperatures averaged 10 to 14° below normal. Statewide.

Topsoil moisture replenished to adequate. Subsoil moisture remains adequate. Winter wheat condition good. Only little more than 1.0 day suitable for fieldwork. Planting progress percent to date, last year and normal: Spring wheat 85, 65, 60; barley 85, 70, 60; oats 75, 60, 55; sugarbeets 85, 90, 80; potatoes 40, 15, 30; corn 50, 50, 40; dry beans 20, 30, 25. Spring wheat 45% emerged, barley 50% emerged. Calving 95% done, lambing 90% complete. Shearing 85% over. About 25% cattle and sheep moved to summer ranges. Range grass growth slow due to cold weather.

NEBRASKA: Widespread precipitation ranged from 0.50 to 3.00 in. Temperatures 3° below normal east to 11° below normal west. Hard freezing temperatures during midweek in Panhandle counties-

Wheat mostly good to excellent. Jointed 40%, behind 70% last year and 60% normal. Headed 0%, same as last year and 2% normal. Corn planting 50% complete, 20% last year and 60% normal. Sorghum planting 5%, 1% last year and 15% normal. Soybeans 5% planted, 1% last year and 15% normal. Oats seeding 98%, compared to 100% last year and normal. Both topsoil and subsoil moisture supplies mostly adequate to surplus. Days suitable 4.9.

NEVADA: Past week dominated by below normal temperatures. Weekly averages were 7 to 10° below normal. Upper level trough over State and west coast was responsible for cool weather. Lowest temperature 18° at Battle Mountain, highest in south was 90° at Logandale. Light snow and rain over north with very little precipitation in south.

Potatoes planting continue, emergence slow due to cool temperatures. Small grains seeding continue behind schedule. Calving nearing completion, lambing 90 to 95% complete. Shearing about 50% complete. Range and pasture good to excellent.

NEW ENGLAND: Temperatures were generally 3 to 7° below normal. Precipitation occurred throughout the week with largest measurements recorded in Maine in excess of 1.22 in.

Rains continue to stall planting activity throughout New England. Days suitable for fieldwork: 4.0. Grazing availability adequate. Maine potato plantings behind schedule with planting limited to well-drained fields. Most tree fruits and small fruits in early bloom stage in good condition and no frost injury.

NEW JERSEY: Temperatures averaged 6° below normal. Extremes 28° at Newton, Flemington and Pemberton on the 10th and 86° at Toms River and Hammonton on the 16th. Weekly rainfall averaged 0.29 in. north, 0.32 in. central and 0.66 in. south. The heaviest 24-hour total 1.02 in. at Downtown on the 15th to 16th. Estimated soil moisture, in percent of field capacity, averaged 78% north, 62% central and 65% south. Four in. soil temperatures averaged 55° north, 64° central and 63° south.

Fieldwork: 6.3 days suitable. Main farm activities: Plowing and planting field corn, oats, soybeans and vegetable crops. Pasture and hay growth good.

NEW MEXICO: Temperatures continue 3 to 5° cooler than normal. Widely scattered showers over north with amount 0.20 to 0.50 in. reported in a few locations.

Cotton 65% planted. Alfalfa good, cutting continues south. Wheat mostly good with irrigated 55% heading. Barley good to excellent. Grain sorghum 30% planted. Lettuce and onions good, lettuce harvest continuing. Range fair to good. Cattle and sheep generally good. Cotton planted: 65%, 80% previous, 86% average.

NEW YORK: Generally subnormal precipitation, mostly early in week, but up to 9 in. of snow in north. Temperatures averaged below normal.

Frost midweek, especially in east. Many fields still wet, work progress slow. Corn planting 5% complete, 12% 1982, 17% average. Oat planting variable but way behind schedule, 15% complete, 52% 1982, 62% average. Warmer temperatures needed by all crops. Apples at or near full bloom. Western peaches, pears, sweet cherries nearing petal fall stage. Long Island vegetable planting on schedule and crop development good under favorable conditions. Oswego County onions 50% planted, Orange County onion planting nearly complete.

NORTH CAROLINA: Temperature 1 to 5° below normal Statewide. Precipitation: Varied.

Soil moisture: 25% short, 75% adequate. Days suitable for fieldwork: 6.1. Condition: Small grains mostly good. Tobacco plant beds: 9% poor, 64% fair, 27% good. Irish potatoes: 15% poor, 46% fair and 39% good. Peaches: 64% poor, 25% fair and 11% good. Pasture: 24% fair, 68% good and 8% excellent. Truck Crops: 14% poor, 50% fair 36% good. Planted: Corn 89%, 96% 1982, 93% average. Peanuts 57%, 63% 1982, 48% average. Cotton: 67%, 81% 1982, 78% average. Sweet potatoes 13%, 23% 1982, 11% average. Soybeans 12%, 23% 1982, 18% average. Soybeans 17%, 44% 1982, 29% average. Major farm activities: Corn planting, planting soybeans, peanuts and potatoes, land preparation and transplanting tobacco.

NORTH DAKOTA: Temperatures were below normal. Averages from 43 to 48° which was 5 to 8° below normal. Extremes from 79° southeast, on 10th, to 32° central on 13th and west central on 14th. Precipitation was above normal. All districts averaged near 1.00 in. of moisture. The wettest area was northwest where 1.29 in. of rain and snow fell.

Strong winds on 9th eroded soil, especially in the east. Snow, accumulating up to a foot or more in the west, and rain halted fieldwork in most areas the latter part of last week. Moisture was generally welcomed, but delays of several days in the east and 10 days or more in the west expected. Planting progress still near the average pace for the date. The percent planted followed by last year and the 5-year averages was: Hard red spring wheat 57, 47, 51; durum 37, 35, 42; barley 51, 58, 52; oats 49, 40, 46; flax 9, 8, 13; sunflower 2, 1, 8; potatoes 14, 11, 30; corn 14, 11, 17; soybeans 8, 8, 14; dry beans 1, 2, 9; and sugarbeets 91, 84, 78.

OHIO: Minimum temperatures early on the 10th were in the upper 20's to mid 30's with frost and freeze effects noted in the north third of State. The average was mainly from 1 to 5° below normal. Precipitation totals were well above normal in all areas of the State.

Corn planting still one week behind normal progress. Some has already been replanted due to excess moisture. Crusting surfaces making emergence difficult. Only 12.5 days have been suitable for fieldwork since April 9. Corn planted 35%, 1982 95%, average 55%. Soybeans planted 10%, 1982 65%, average 25%. Potatoes planted 30%, 1982 80%, average 60%. Oats planted 90%, 1982 100%, average 95%. Wheat jointed (not headed) 65%, 1982 45%. Wheat headed 2%, 1982 5%, average 1%. Oats emerged 70%, 1982 70%. Days favorable: 3.5. Pasture condition good. Soil moisture 58% adequate, 42% surplus.

OKLAHOMA: Average temperatures ranged from 1 to 3° below normal east to 5 to 6° below normal west.

Precipitation ranged from 0.96 in. Panhandle to 5.27 in. south central.

Heavy showers provided much-needed relief for drought-stressed wheat fields in west. Wheat in good condition. Harvest one to two weeks behind schedule. Producers continue to graze and bale PIK acres prior to deadline. Wheat headed 50%, 75% 1982, 86% average. Sorghum planted 15%, 10% 1982, 15% average. Cotton planted 15%, 2% 1982, 10% average.

OREGON: Rainfall left 2.20 in. of rain along coast; up to 1.30 in. in western valleys and south central area, up to 0.20 in. elsewhere. More rain fell over the weekend. Temperatures averaged 1 to 2° below normal in west, down to 7° below normal in east. Winter wheat fair to good in west, good to excellent in east; 4% headed; 2% last year, 8% average. Yellowing in wheat due to nitrogen leaching. First cuttings hay and alfalfa down. Grass seed fields being sprayed for rust. Pears and apples in good condition; spray programs on schedule. Cherry set good; peaches good. Strawberry fields past full bloom; canberries in early bloom. Filberts appear lighter than last year. Potatoes being planted in later areas; early fields emerged and growing well. Onions emerging; some hail damage in Malheur County. Green peas good emergence. Cannery crops continue to go in on schedule. Livestock condition good. Range and pasture good to excellent.

PENNSYLVANIA: Days suitable: 5.0. Moisture adequate to surplus. Activities: Plowing; discing; spreading lime and fertilizer; cutting rye for silage and green chop; harvesting asparagus; and planting oats, corn, potatoes, and alfalfa. Plowing 73% complete, last year 86%, average 84%. Oats 79% planted, last year virtually complete. Soybeans less than 5% planted, last year 19%. Potatoes 52% planted compared with 78% planted last year. Corn 28% planted, last year 51%, average 43%. Barley 36% in boot and 20% headed, last year 25% in boot and 29% headed. Wheat 31% in boot and less than 5% headed, last year 22% in boot and 5% headed. Hay stand conditions good to fair. Feed from pastures average to above average. Peaches 87% in full bloom or past, last year 92%. Cherries 86% in full bloom or past, last year 89%. Apples 22% pink and 65% in full bloom or past, last year 18% pink and 79% in full bloom or past.

Week began and ended rather wet with cool and dry weather during mid-week. Many areas in the northern half of the State reported frost as temperatures dropped into the 20's and 30's. Extremes 83 and 24°. Precipitation was noted during the first and last day of the week. Total amounts ranged from 0.50 in. to near 1.00 in. However the extreme southeast received less than 0.10 in.

PUERTO RICO: Island average rainfall 1.13 in. or 0.41 in. below normal. Highest weekly total 6.82 in. Highest 24-hour total 2.90 in. Temperatures averaged about 83 to 80° on Coasts and 78 to 75° Interior Divisions. Mean station temperatures ranged from 84.5 to 70.0°. Extremes 94 and 61°.

SOUTH CAROLINA: Daytime temperatures mild but nights cooler than usual through 11th, warming thereafter. Rainfall late in the week was light most areas, although, locally heavier at a few locations. Rainfall below normal, few heavier showers.

Most soils adequate moisture, but 1/3 had somewhat less. Days suitable for work: 6.0.

Corn 33% cultivated; planting 97% completed, 98% last year, 96% average; conditions fair. Cotton fair condition, 94% planted, 97% last year, 91% average. Peanuts 74% planted, some soils too dry for good germination, 84% year ago, 71% average; condition fair to good. Tobacco 95% transplanted, early crop growing out of April freeze injury, 99% year ago, 98% average; fair

condition. Soybeans 7% planted, 15% last year, 20% average.

Wheat 93% headed, 97% last year, 99% average; condition fair with some freeze damaged small grains salvaged as silage or grain hay. Condition of most vegetable crops fair to good.

SOUTH DAKOTA: Temperatures were 5 to 10° below normal west, and up to 5° below normal east. Extremes: 85 and 16°. Rainfall totaled 0.50 to 1.50 in. over most of State, heaviest amount of 3.24 in. fell in south central. Snowfall along western border totaled 10 to 12 in. in some areas.

Days suitable for fieldwork: 3.0. Topsoil moisture mostly adequate or surplus except for shortages in extreme southwest and northeast corners. Major activities were small grain seeding, land preparation, herbicide and fertilizer applications. Fieldwork very slow in southeastern 1/3 of State due to saturated fields. Cool, wet weather has slowed crop and pasture growth. Feed and stock water supplies adequate or better throughout State. Calving and lambing almost 90% complete. Forty-seven percent of cattle moved to pasture with supplemental feeding in some areas. Spring wheat seeded 92%, 1982 92%, average 91%. Barley seeded 80%, 1982 91%, average 89%. Oats seeded 73%, 1982 94%, average 91%. Corn planted 9%, 1982 24%, average 40%. Sorghum planted 0%, 1982 0%, average 5%. Flaxseed planted 22%, 1982 43%, average 52%. Spring wheat emerged 61%, 1982 72%, average 84%. Barley emerged 51%, 1982 73%, average 85%. Oats emerged 42%, 1982 75%, average 85%. Winter wheat 10% boot, 1982 6%, average 15%. Winter rye 9% boot, 1982 10%, average 17%. Winter wheat 0% heading, 1982 0%, average 3%.

TENNESSEE: Days suitable for fieldwork: 3.0. Soil moisture 55% surplus, 45% adequate. Corn planted 45%, 1982 77%, average 69%. Cotton planted 54%, 1982 79%, average 70%. Soybeans planted 3%, 1982 12%, average 13%. Tobacco transplanted 8%, 1982 17%, average 17%. Alfalfa hay cut 16%, 1982 54%, average 40%. Wheat headed 57%, 1982 89%, average 88%. Some damage to wheat from flooding along Mississippi river. Pastures good condition. Cattle good.

TEXAS: Widespread showers, thunderstorms across State this week. Average temperatures 3 to 5° below normal Plains region, Trans-Pecos, south central Texas, near normal elsewhere.

Crops: State received needed rain, helping alleviate the drought like conditions. Rains helpful in promoting growth of corn, cotton, sorghum. Cotton planting made good progress. Planting now underway Low Plains, expected to move into High Plains soon. Cross Timbers, Blacklands, fields emerging, establishing good stands. Rains helpful where fields too dry to plant. Coast, Central Texas, fields developing well despite some replanting. Rio Grande Valley, fields showing good growth under active irrigation. Sorghum planting continued, getting underway Plains. Stands good condition. Insect damage remains light, buildup of yellow aphids, greenbugs noted, corn planting active, full swing High Plains. Some lodging caused by dry soil conditions, root unable to penetrate ground. Small grains continue to develop, nearing maturity Valley, portions of South Texas. Grazing, baling of wheat continues on acres committed to PIK program. Currently, dryland fields showing signs of moisture stress. Reported wheat condition is 81% compared with 67% a year ago. By week's end, 12% excellent; 55% good; 29% fair; and 4% poor. Rice continues to develop well, beneficial rains received. Peanut planting continued South Texas. Preplant activities continued other producing areas. Cotton planted 24%, 1982 25%, average 36%. Cotton squaring 4%, 1982 6%, average 6%. Rice planted 95%, 1982 95%, average 97%. Rice emerged

83%, 1982 84%, average 88%. Sorghum planted all purposes 69%, 1982 68%, average 71%. Sorghum headed 5%, 1982 6%, average 8%. Wheat headed 61%, 1982 81%, average 80%. Wheat turning color 14%, 1982 13%, average 18%. Oats harvested for grain 6%, 1982 4%, average 3%. Corn planted for all purposes 94%, 1982 95%, average 95%. Peanuts planted 16%, 1982 10%, average 17%. Soybeans planted 1%, 1982 2%, average 4%. Sugarbeets planted 99%, 1982 100%, average 100%. Sunflowers planted 19%, 1982 8%, average 13%.

**Commercial vegetables:** Rio Grande Valley, harvest of spring onions wrapping up. Watermelons developing well, harvest getting under way. Citrus harvest continued with shipments of grapefruit, Valencia oranges tapering off. Coastal Bend, watermelons, cucumbers made excellent growth during the week. Tomatoes developing well. San Antonio-Winter Garden, tomatoes, watermelons progressing well. Onion harvest gaining momentum. Irrigation continues. Fast Texas, showers beneficial to all vegetables. Insects building, cabbage loopers causing some damage. Watermelon planting continued. Trans-Pecos, dry, windy conditions continue to slow growth of potatoes, onions. Some cantaloup fields damaged by hail. Plains, rains beneficial to potatoes, onions. Dry soil conditions slowed growth. Pepper planting gaining momentum. Peach trees continue to develop. Fruit set moderate to heavy. Spraying continues, some leaf curl caused by moisture stress. Pecans showing good growth. Producers continue their watch for casebearers, spraying expected soon.

**Range and livestock:** Range, pasture condition showed some improvement. However, portions of Central, South Texas remained moisture stressed, additional rain needed to aid growth of summer grasses. Small grain fields continue to provide fair grazing, abundant supply of hay, being cut from wheat acres enrolled in PIK program. Livestock in good to excellent condition, some supplemental feeding continuing.

**UTAH:** Precipitation midweek heavy north and central parts, light to zero southern portion. Cold temperatures ranged 13 to 2° below normal.

Spring seeding operations practically at a standstill. Very little progress made only 4.0 days minimal work done. Spring wheat 58% seeded, barley 57%, oats 48%. Green peas and onion planting only half done. Winter wheat, alfalfa, and pasture growth 5 to 6 weeks behind normal. Cold weather hard on new born calves and lambs.

**VIRGINIA:** Cooler than normal temperatures until the weekend. Highs were mainly in the 60's and 70's then warmed to the 80's 14th and 15th. Except for the weekend the period was rather dry with only scattered areas receiving any rain. From 13th until 15th 0.25 to 0.50 in. amounts were common with a few areas receiving up to 1.00 in. or so. Heaviest amounts reported were in the southwest with up to 2.50 in. Early in the period a couple of areas had light frost.

These weather conditions pulled topsoil moisture down to 45% short, 51% adequate and 4% surplus but enabled days suitable for fieldwork to jump to 5.8. Subsoil moisture good but rain needed to improve germination. Land preparation for seeding and planting active. Fertilizing and application of insecticides and herbicides active. Corn seeding 70% complete, 80% in 1982 and 73% average. Reseeding active but only on a few acres. Corn condition reported good. Soybean seeding 10% complete, 20% last year and 13% average. Peanut seeding 70% complete, 93% in 1982 and 62% average. Cotton planting 94% complete compared to 100% last year and average. Flue-cured tobacco 12% transplanted, 39% in 1982 and 30% average. Fire-cured 4% set while 1982 was 12%, average 6%. Burley 2%, 4% in 1982 and

3% average. Sun-cured transplanting 5%, 3% in 1982 and 7% average. Tobacco beds reported in fair to good condition. Some blue mold has been identified. Small grain chopping for silage active with some areas complete. Cutting of small grains for hay also active. Wheat and barley reported in good conditions as fields begin to head. Cereal leaf beetle larva have hatched and spraying picking up in small grains. Spraying fruit still active. Vegetable planting continues for tomatoes, cantaloupes and watermelons. Early week frosts did minimal damage in central region to grapes, early corn and vegetables. Hay in good condition with about 8% of first cutting complete. First cutting yields light because of cold spring weather. Alfalfa weevil spraying active in most areas. Pastures in excellent condition as are livestock.

**WASHINGTON:** Low pressure and a moderately strong frontal system brought clouds and rain to the State early in the week. High pressure extended into Canada from the Gulf of Alaska during the middle half of the period. This pattern produced dry, warm days and cool nights. But the ridge weakened on 12 and by 13th a small low pressure system began moving southward along the coast of Canada.

Planting potatoes, spring grains, field corn and other spring crops winding down. First cutting of hay gaining momentum. The barley and wheat crops continue to look good. Cool weather has prolonged frost protection in major fruit districts. Fruit thinning fungicide spraying major orchard activities. Sweet cherry looks very good. Prospects good for all other fruit crops. Blueberries, raspberries and strawberries in various stages of bloom. Harvest of field rhubarb continues--the second picking light. Cutting asparagus and spinach. Planting sweet corn, cauliflower, broccoli, cucumbers, green pea and carrots west. Earlier planted green peas looking good. Planting sweet corn in Kittitas Valley in full swing. Cooler weather in Yakima Valley slowed emergence of direct seeded tomatoes and development of early plantings of sweet corn and other vegetable crops. Transplanting peppers, tomatoes and squash nearing completion. Ranges and pastures in good condition. Dairymen continue green chop and put up silage as weather permits. More warm weather needed for grass growth, particularly in the eastern part of the State.

**WEST VIRGINIA:** Temperatures averaged below normal. High 85°, low 21°. Precipitation below normal. Range 0.01 to 0.95 in. Soil moisture adequate. Days worked averaged 4.4. Main activities were plowing and planting. Wheat in good to fair condition: 70% pre-jointed and 30% jointed; 54%, 36% and 10% heading in 1982. Barley in fair to good condition: 62% pre-jointed, 34% jointed and 4% heading; 40%, 33% and 27% in 1982. Oats in fair to good condition, 81% planted, 43% emerged; 81% and 65% in 1982. Corn in fair condition, 35% planted, 8% emerged; 56% and 20% in 1982. Tobacco in fair condition, 99% planted, 85% emerged and 2% set; 100%, 63% and 1% in 1982. Pasture and hay in fair to good condition.

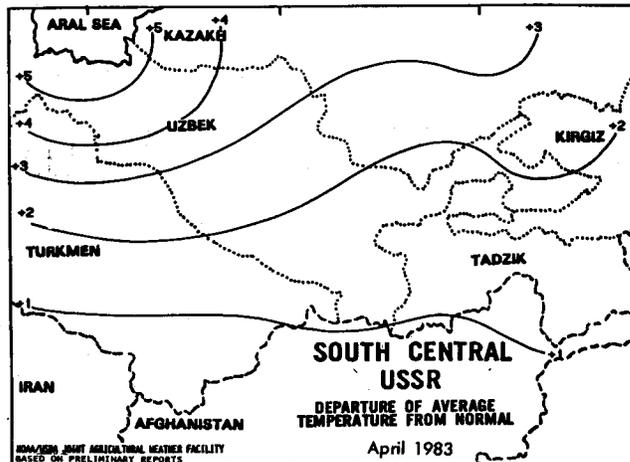
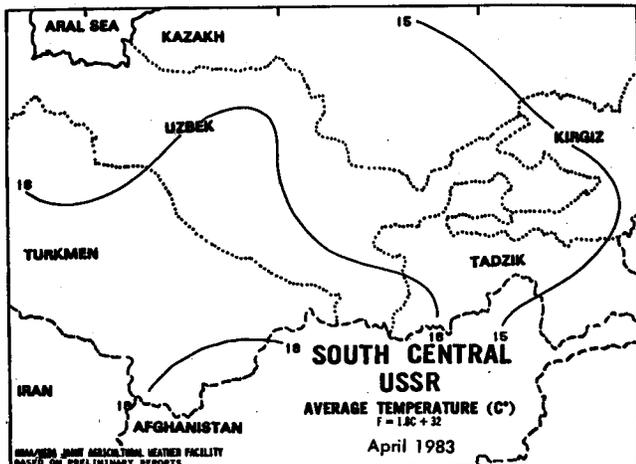
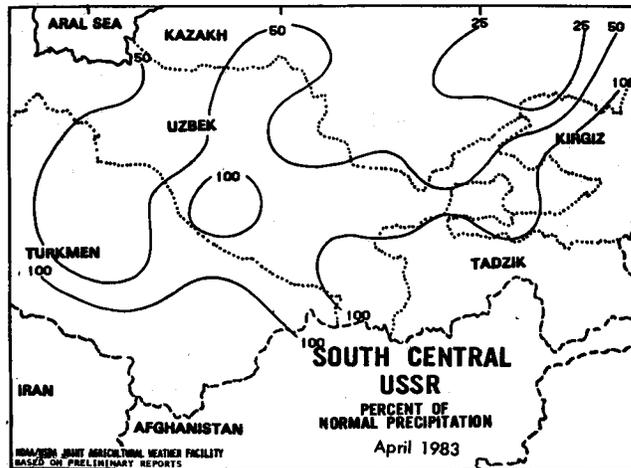
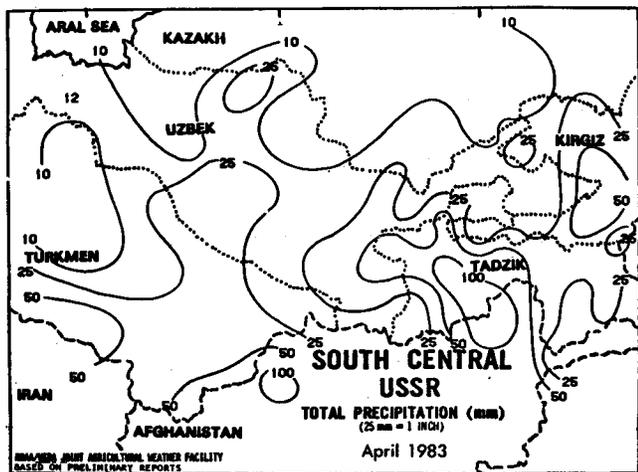
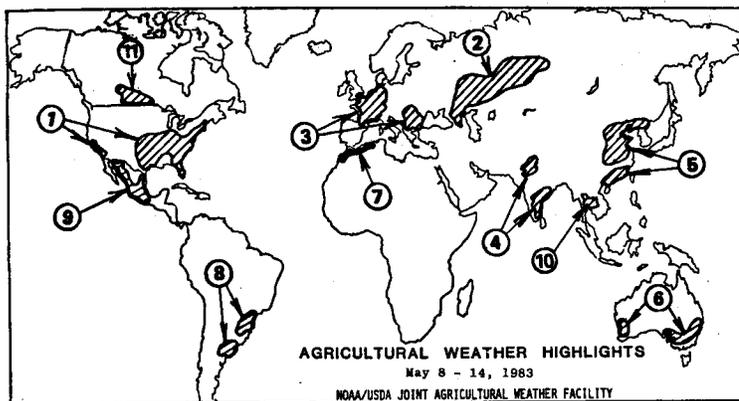
**WISCONSIN:** Cool dry weather prevailed over the State early in the week. Temperatures dropped below freezing in most sections both 9th and 10th. Daytime highs were generally in the 50's. A slow moderating trend set in around midweek along with scattered showers and thunderstorms. This shower and thunderstorm activity ended in the northwest late 12th and early 13th. This continued into 14th in the southeast. Heaviest rainfall amounts fell in the central and southern sections 13th and into 14th morning. Some local

(continued on p. 29)

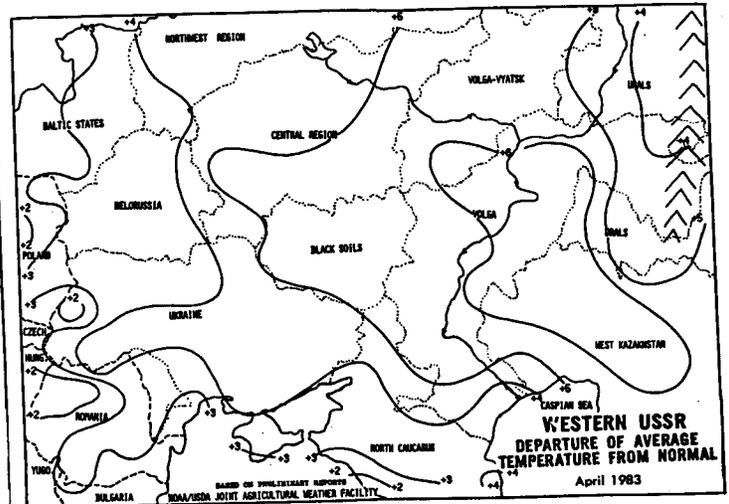
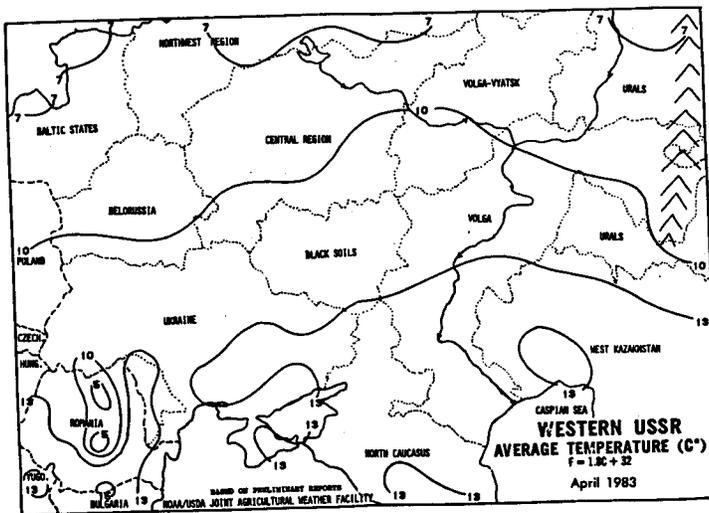
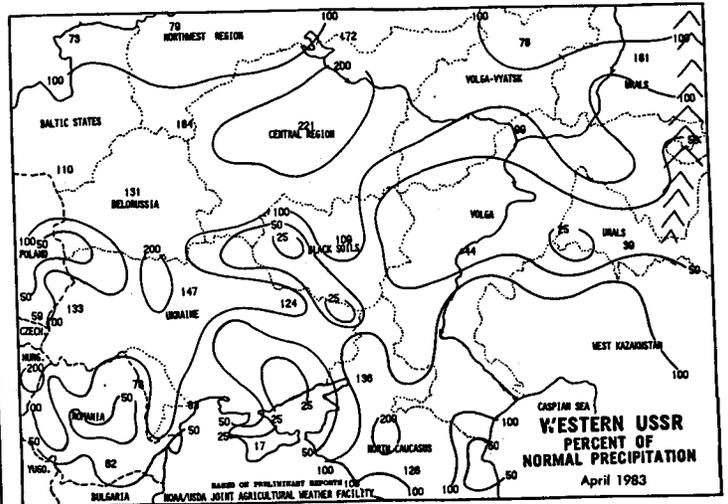
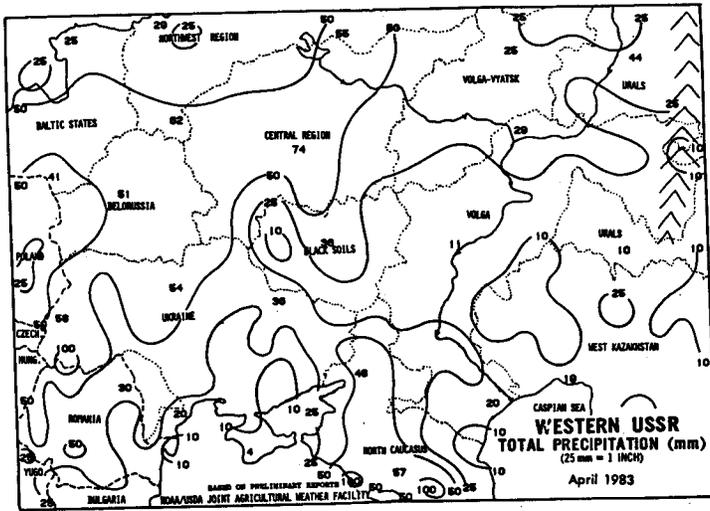
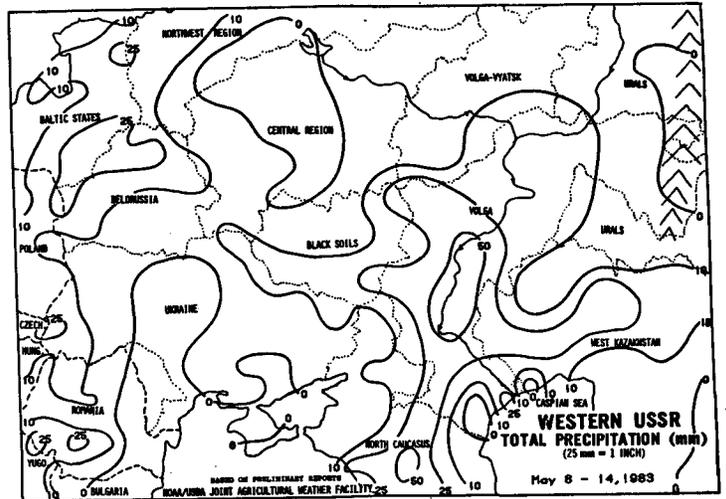
### International Weather and Crop Summary

May 8 to 14

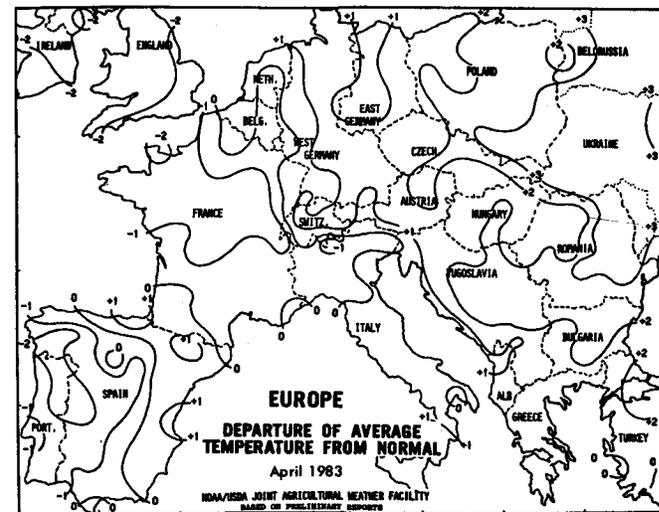
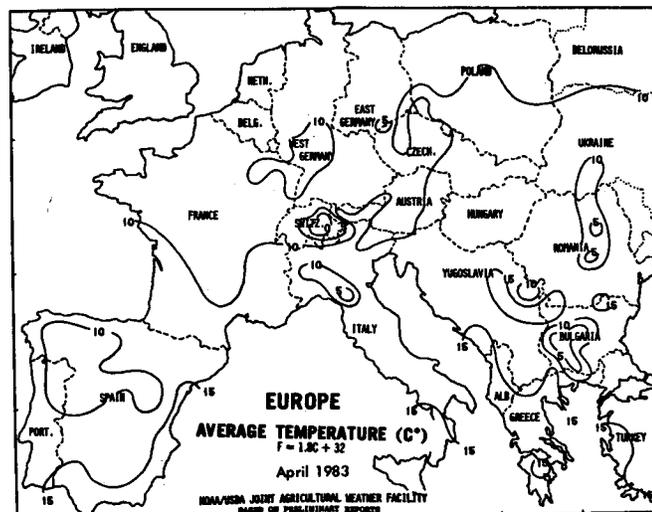
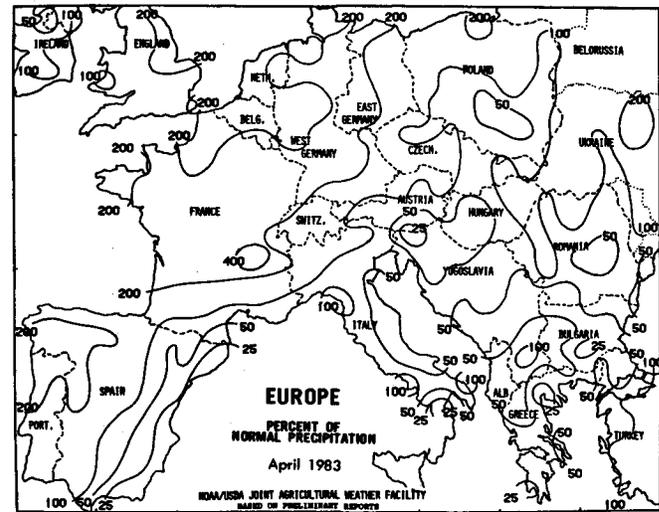
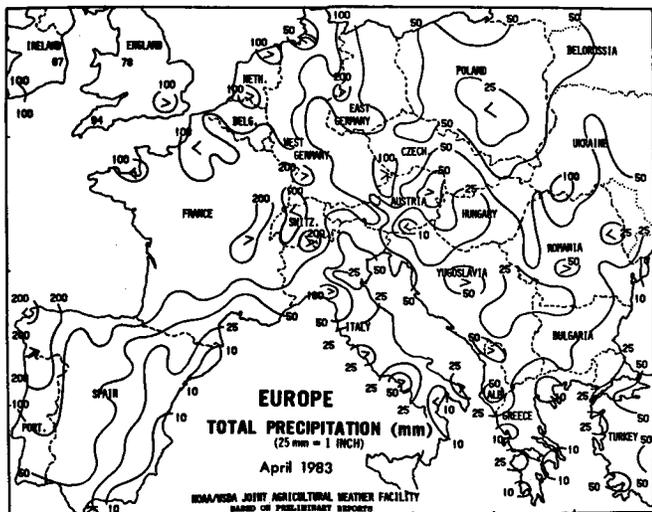
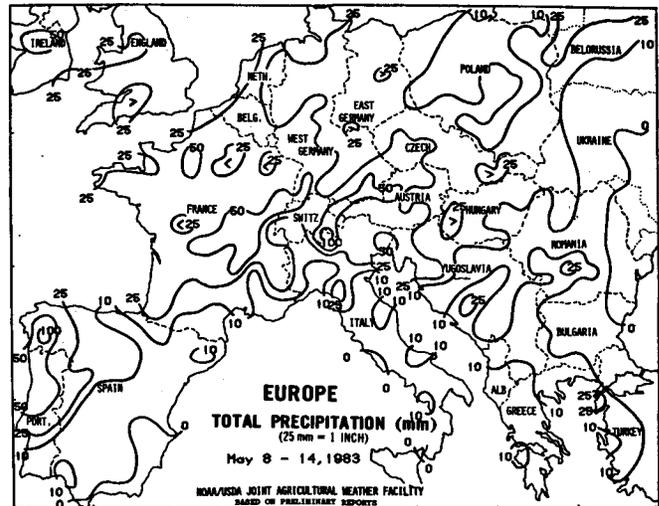
1. UNITED STATES ... Heavy rains from eastern Texas to Kansas and northeastward into parts of the Corn Belt delay plantings. Dryness over the east coast and California permits fieldwork to advance rapidly. Heavy snow replenishes soil moisture in the northwestern Plains, but cold, wet rains extending into the northern High Plains stress livestock.
2. USSR ... Wet weather improves topsoil moisture in parts of the east, benefiting winter grains and spring crop emergence. In the New Lands, dry weather continues to cover grain areas. Generous preplanting rains are needed, particularly in the west.
3. EUROPE ... Wet weather continues to waterlog fields over parts of western and northern Europe. Additional rains are needed for crop growth in the southeast.
4. SOUTH ASIA ... Rains in northern India delay the wheat harvest. Premonsoon activity increases in peninsular India.
5. EAST ASIA ... Heavy rains over most areas south of the Yangtze River delay rice planting. North China Plain is becoming unfavorably dry for cotton and wheat. Moderate rains benefit corn and soybeans in Northeast China.
6. AUSTRALIA ... Showers improve planting conditions in eastern Victoria and southern New South Wales, but conditions are mostly dry elsewhere as the planting season begins.
7. NORTHWESTERN AFRICA ... Light, scattered showers fall, but amounts are insufficient for winter grains in the filling stage.
8. SOUTH AMERICA ... Heavy rain drenches Brazil's soybean area again, causing further harvest delays. Dry, cool weather in Argentina aids crop harvests and wheat planting.
9. MEXICO ... Continued dryness over most areas along with unseasonably hot afternoon temperatures in the Northeast stresses crops and livestock.
10. SOUTHEAST ASIA ... Light showers cover much of Thailand with the heaviest amounts falling in the north region as corn and rice planting gets under way.
11. CANADA ... Cold weather and snow cause additional spring wheat planting delays in the Prairie Provinces.



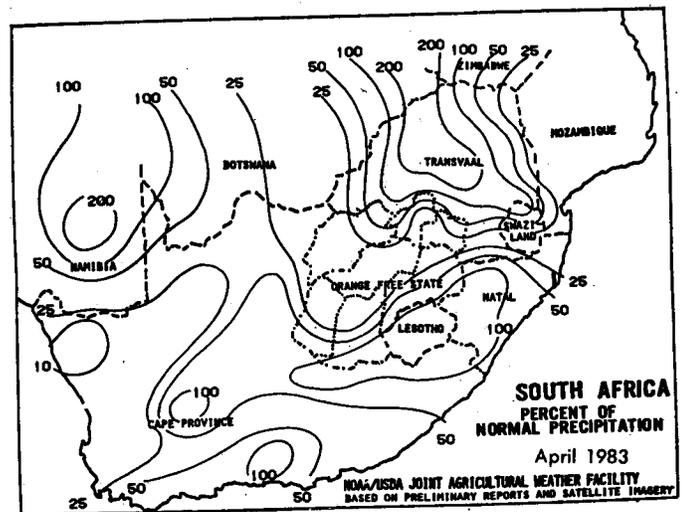
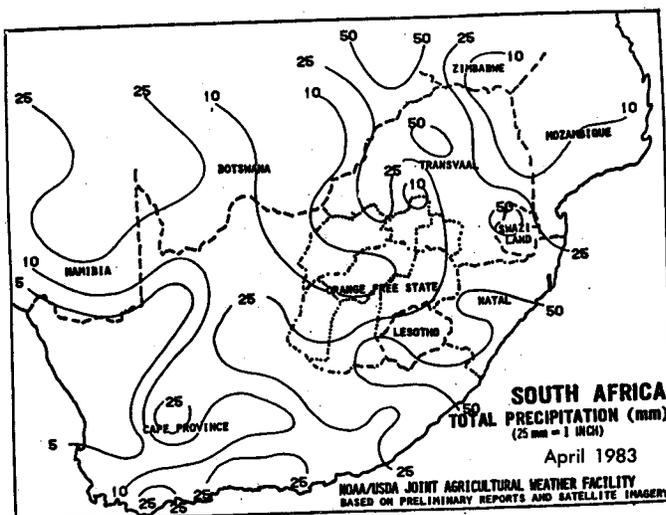
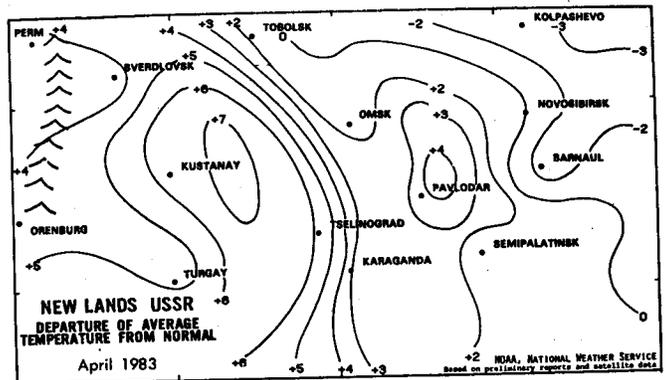
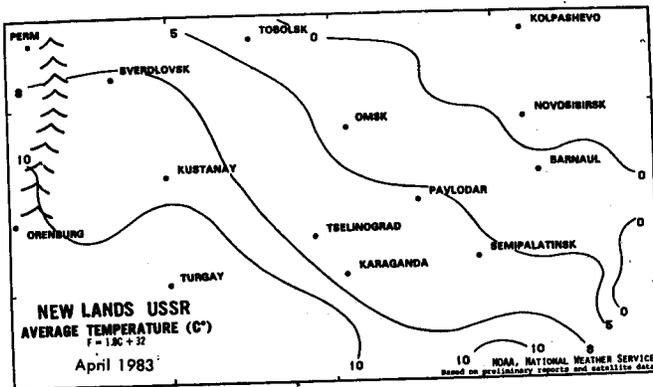
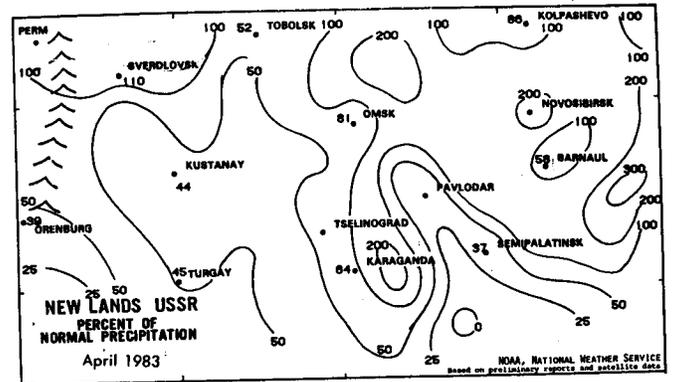
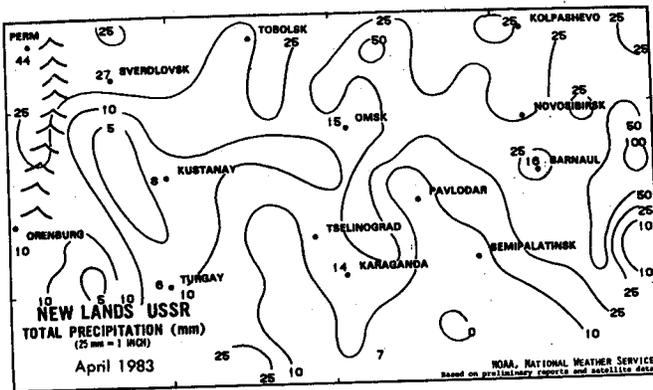
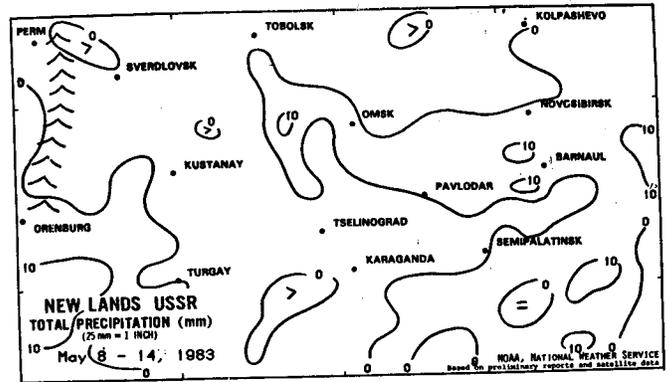
**WESTERN USSR...**Wet weather (25 to 50 mm), covered the central North Caucasus, western Kazakhstan, and the Volga Valley, improving topsoil moisture needed for both winter grain and summer crop growth. In contrast, crops in the western Ukraine and Central Region experienced mostly dry weather, reversing April's above-normal precipitation pattern. During April, unseasonably warm, dry weather early in the month allowed early spring fieldwork with seeding ahead of normal dates. By late April, widespread showers and cooler more reasonable temperatures covered major producing areas in the south, favoring emergence of spring grains and benefiting winter grains in the vegetative stage.



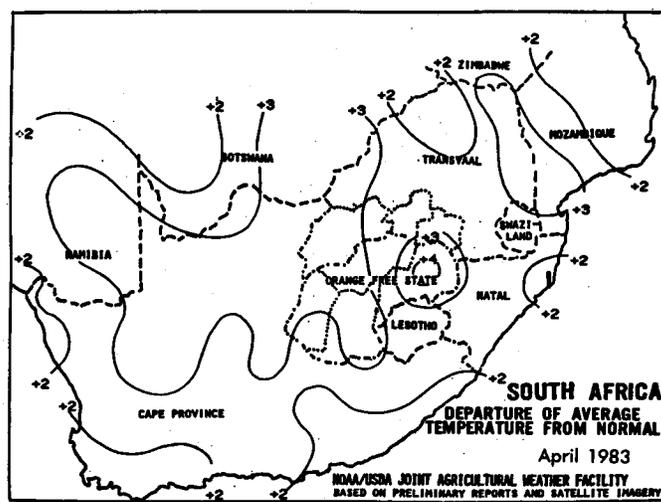
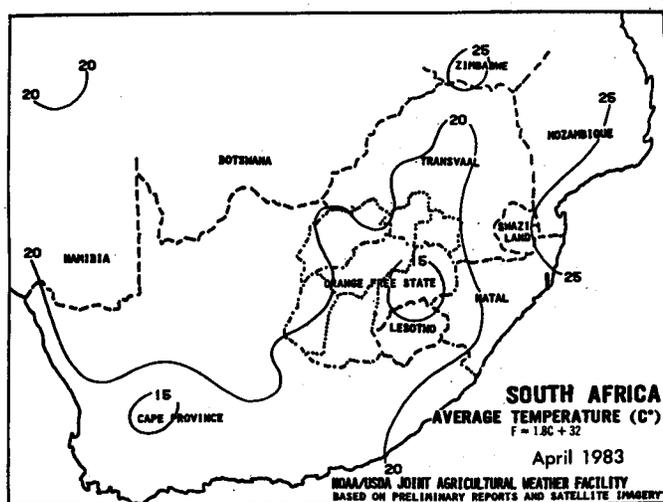
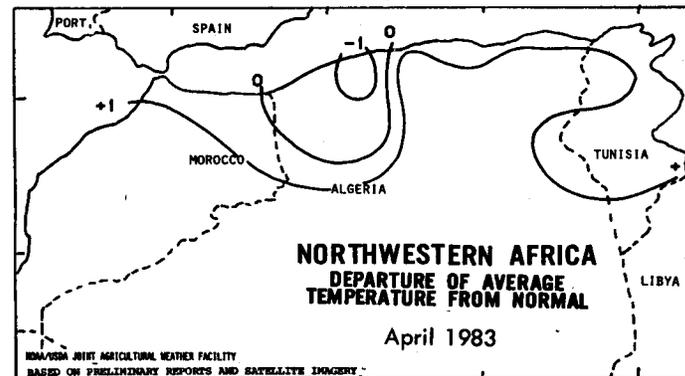
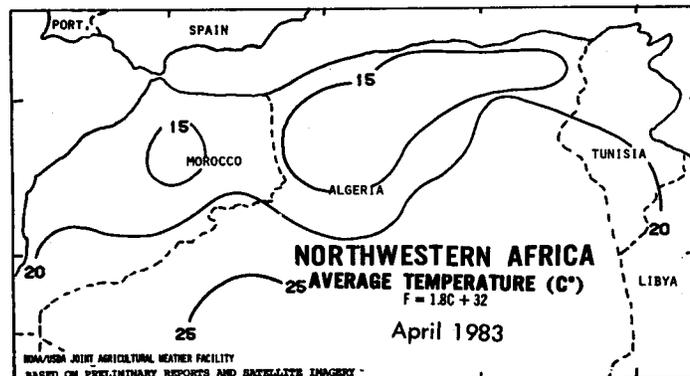
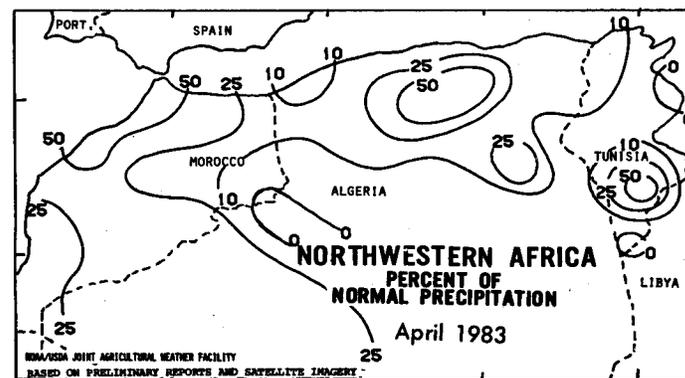
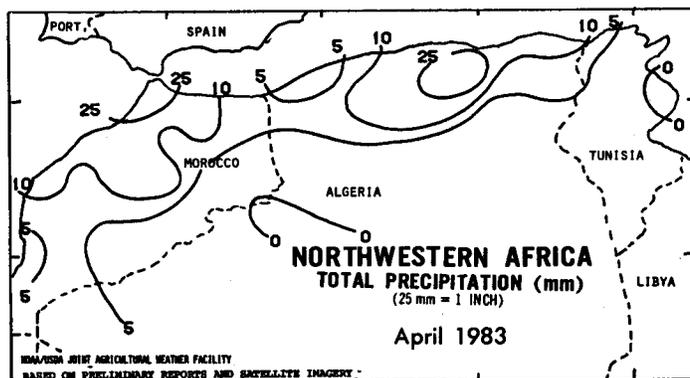
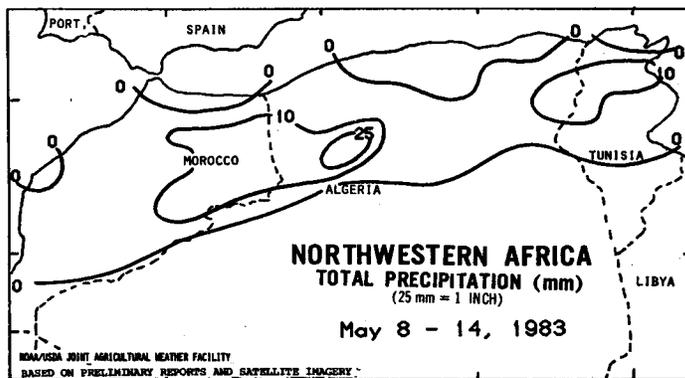
EUROPE...Wet weather continued to cover England, France, and parts of northern Europe, continuing April's wet pattern. In April, waterlogged fields delayed spring fieldwork in some areas, particularly West Germany. In the Iberian peninsula, mid-April rains broke a dry spell, benefiting winter wheat in the heading stage in the north. Furthermore, light showers in these areas this past week improved soil moisture. Showers this past week in southern Poland benefited crops which received less than normal rains in April. In the southeast, light showers continued April's unfavorable precipitation pattern in most winter grain areas. Timely rains will be needed in upcoming weeks to boost yield prospects. Weekly temperatures continued April's pattern, below normal in the west and above normal in the east.



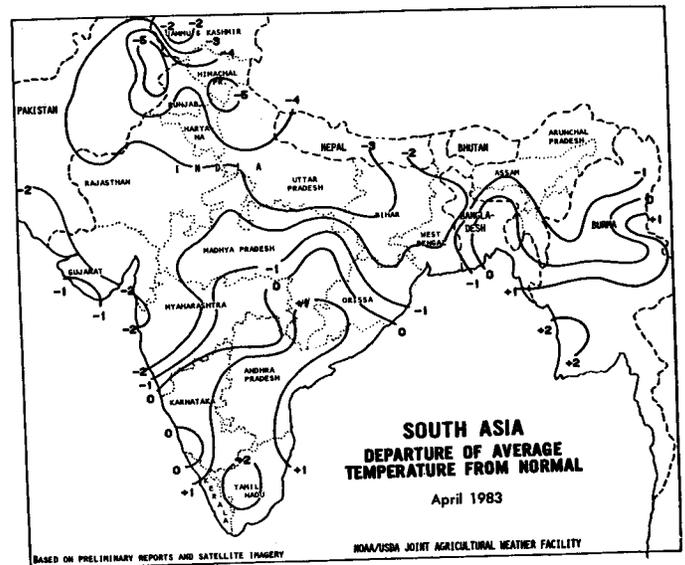
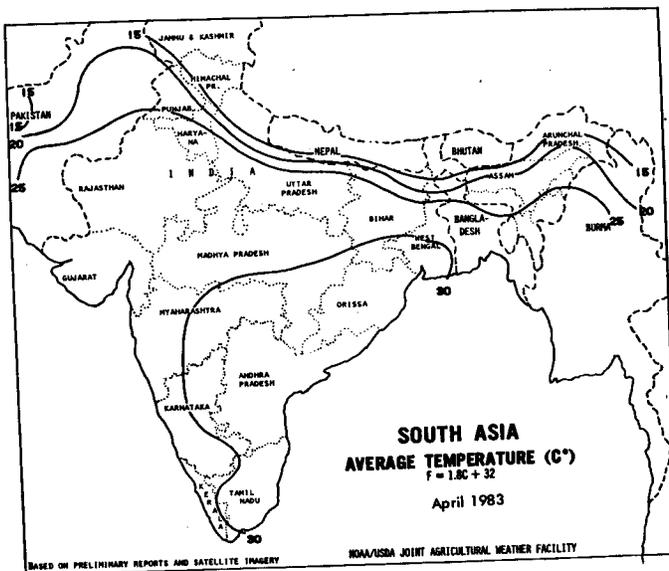
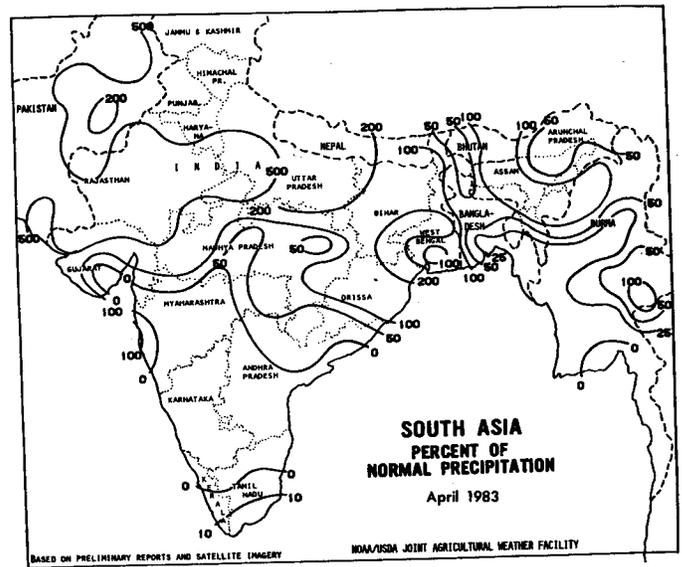
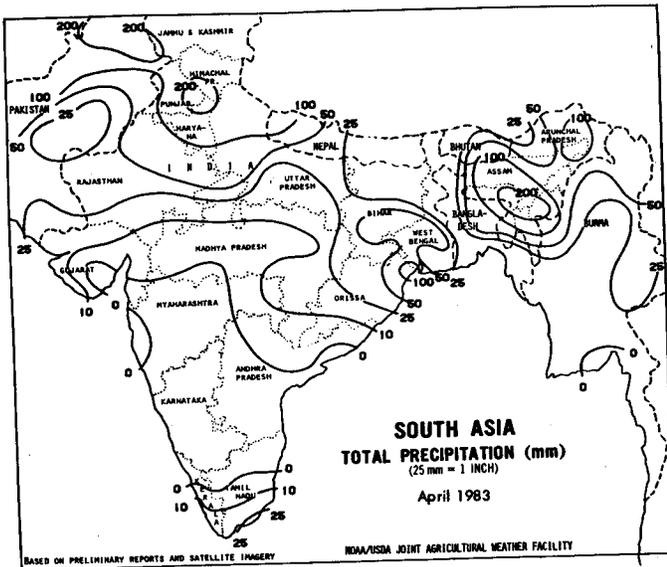
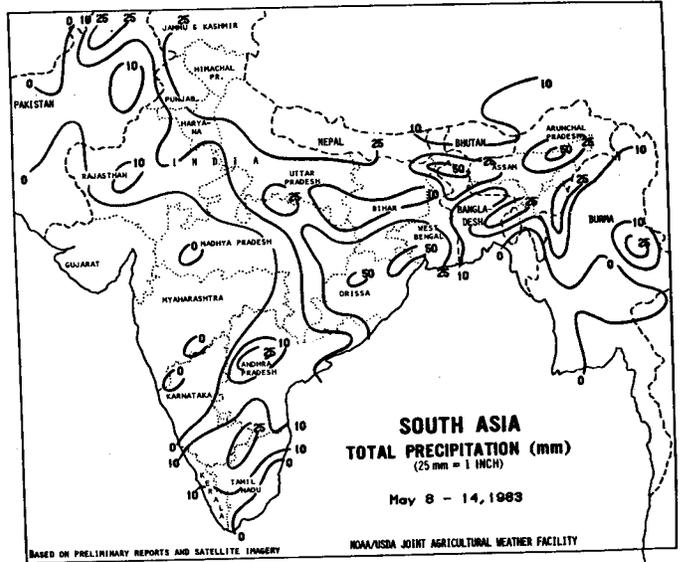
**NEW LANDS...** A drying trend continued over most spring grain areas. In April, below-normal precipitation covered the west, while the east received above-normal rains. In addition, temperatures during the month were well above normal, allowing fieldwork prior to planting. Spring grain planting normally begins in mid-May, and generous preplanting rains are needed, particularly in the west where topsoils are becoming unfavorably dry. In South-Central USSR cotton areas, near- to above-normal rains in central and eastern areas favored plant emergence. In contrast, unfavorably dry conditions existed for cotton planting in minor cotton producing areas of western Uzbekistan. Reports indicate that cotton planting has been completed over most of the region.



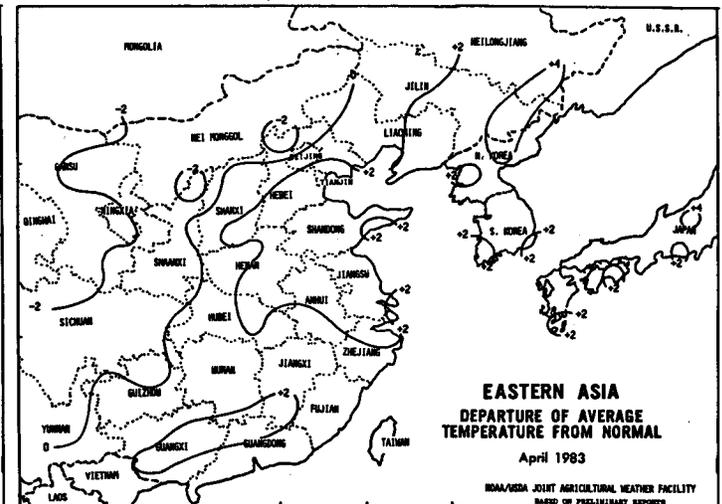
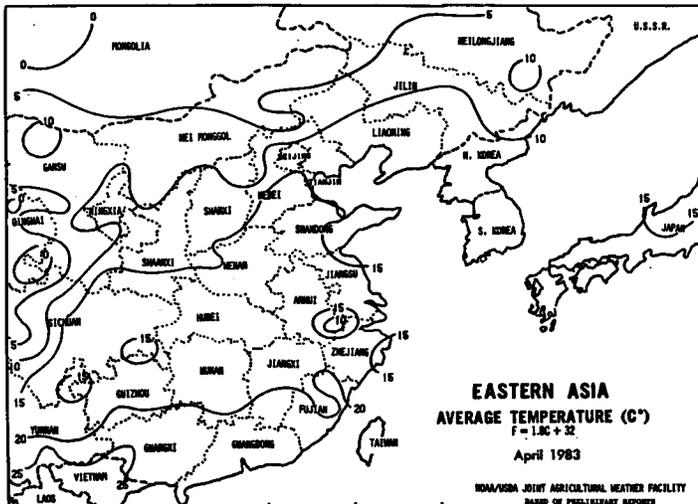
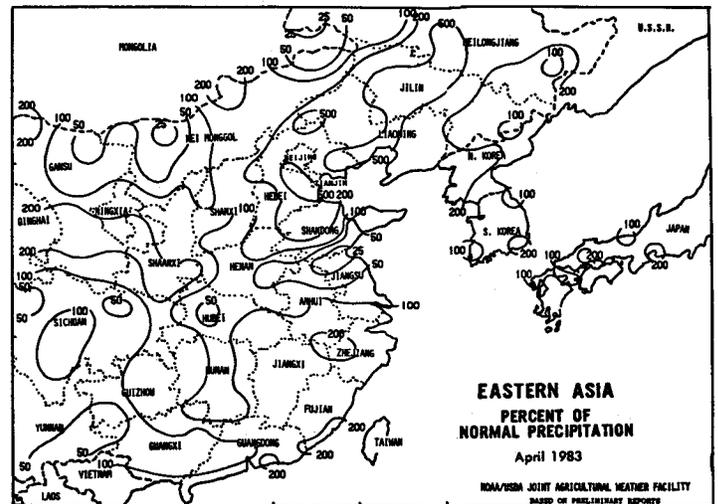
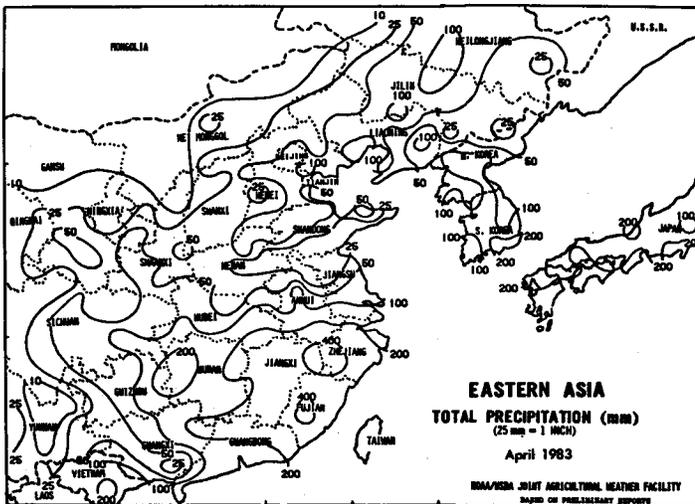
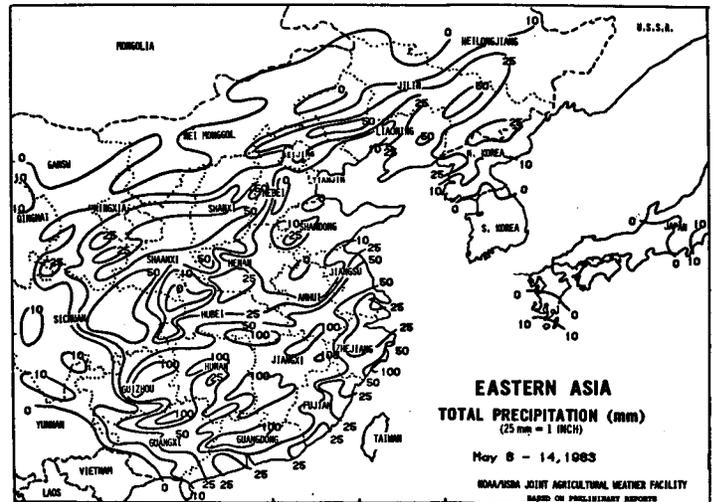
**NORTHWESTERN AFRICA...**Light, scattered precipitation continued April's well-below-normal rainfall pattern in all crop areas. Winter grains were advancing through the critical heading stage during April, and less than adequate rains likely reduced yield prospects in many areas. Winter grains are now normally in the filling period, and generous rains are needed soon to prevent further potential declines in yield.



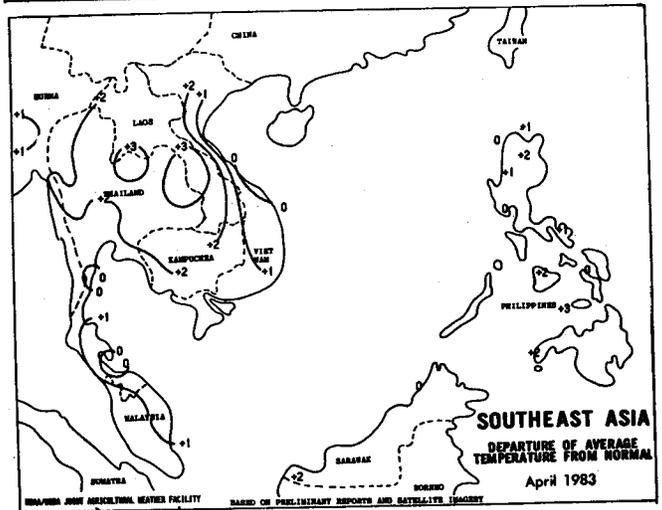
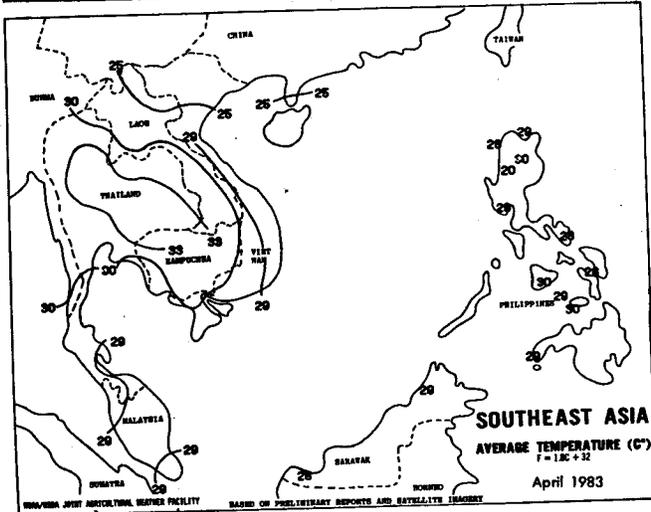
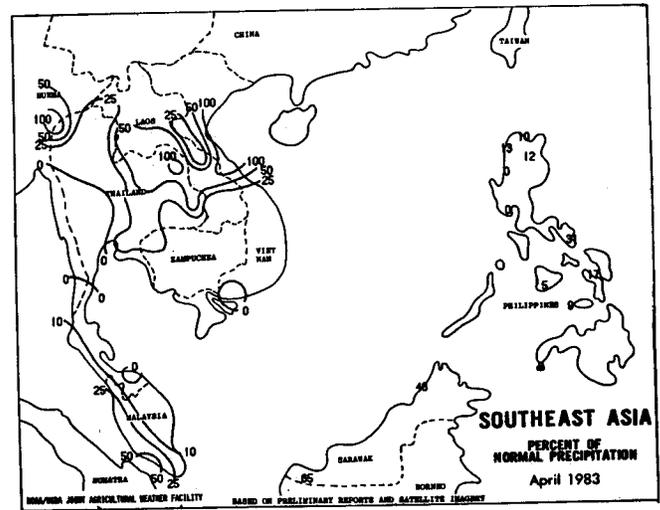
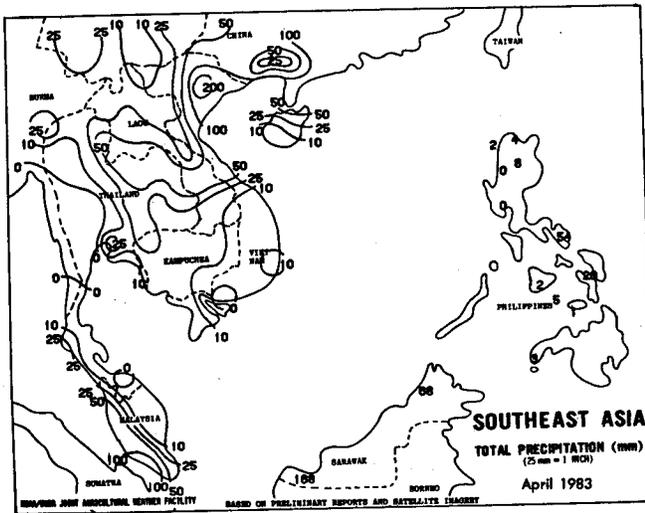
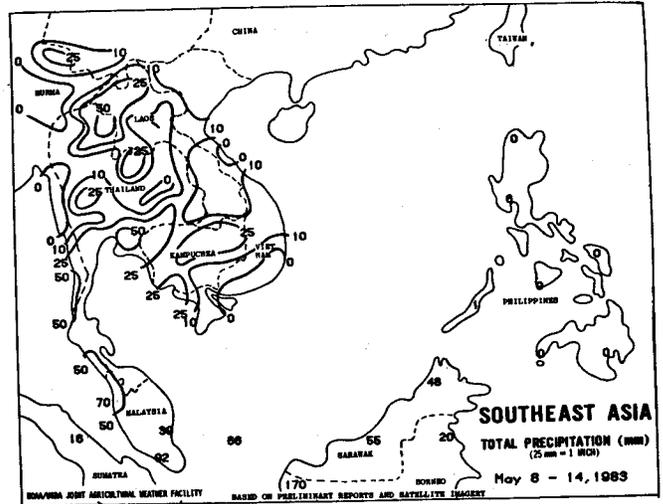
**SOUTH ASIA...** Heavy rain returned to northern India, delaying the wheat harvest as it did in mid-April. Crop damage from the past heavy rains and hail is expected to be small. The showers extended eastward across northern India where above-normal precipitation in the latter part of April caused flooding in Bangladesh. The intensity and frequency of premonsoon showers increased early in the week as scattered storms moved across peninsular India. The localized moisture benefited summer rice in the heading stage. Summer crop planting will not begin until the main wet season arrives. Very warm temperatures, as high as 43°C, were recorded early in the week in wheat areas of India and Pakistan, in contrast to the below-normal temperatures during April.



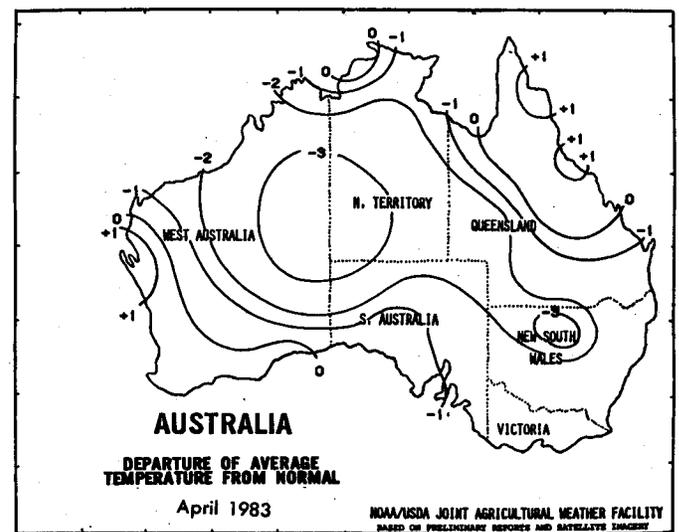
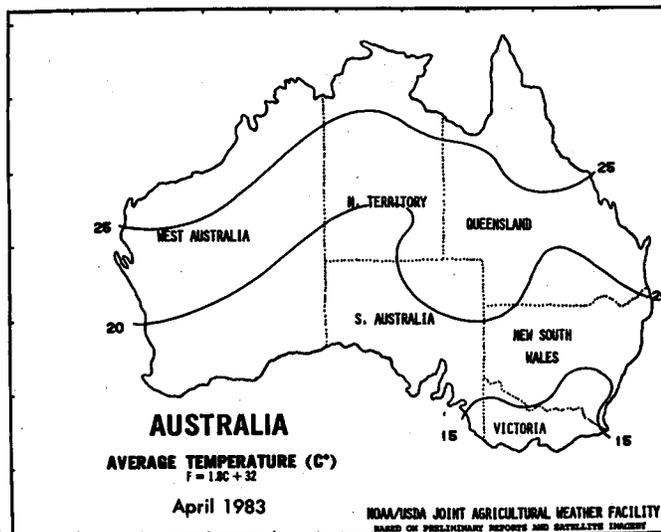
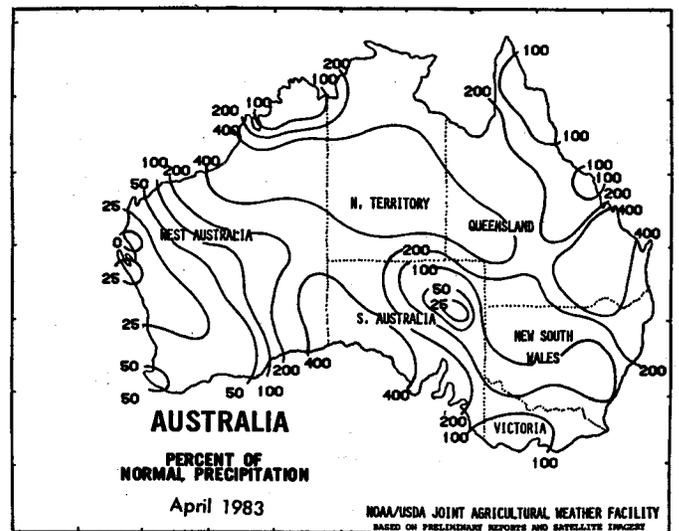
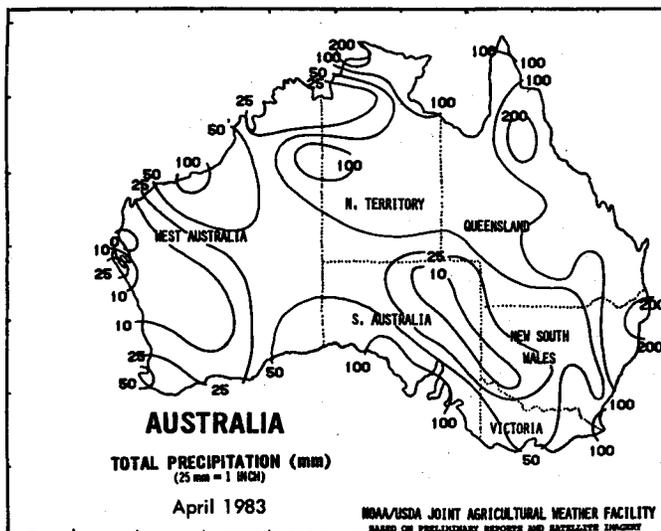
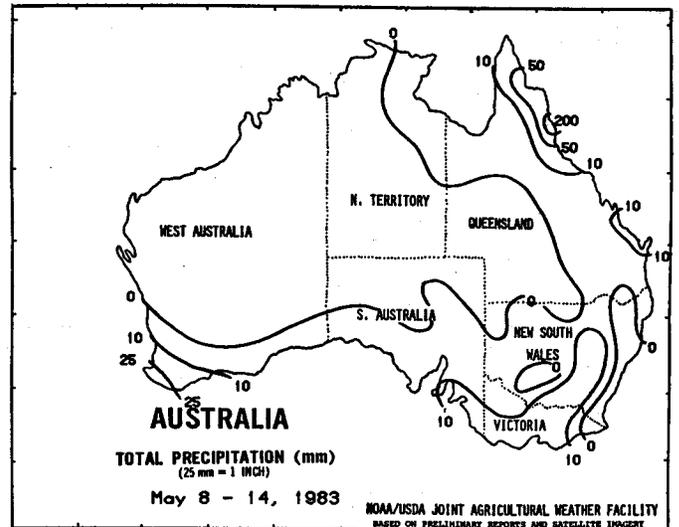
**EAST ASIA...** Above-normal precipitation, greater than 100 mm in localized areas, fell on the rice region in China during the week, as it has throughout April. The persistent heavy rains and some localized hail last month delayed planting and damaged some newly sown rice. Little precipitation fell during the week on the eastern half of the North China Plain, where cotton is in the early vegetative stage and topsoils could be unfavorably dry. Well-below-normal rains fell over the southern portion of the North China Plain during April, possibly stressing heading winter wheat in unirrigated areas. Showers in northeastern China benefited corn and soybeans in the early vegetative stage where precipitation had been much above average toward the end of April. Temperatures in the major crop areas of China were slightly above normal in April, accelerating crop development. Little precipitation fell over Korea this week; however, above-normal rain throughout April has benefited winter wheat now in the heading stage.



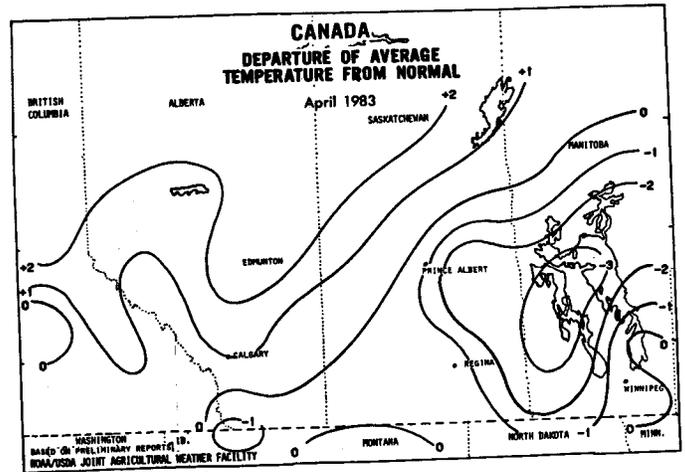
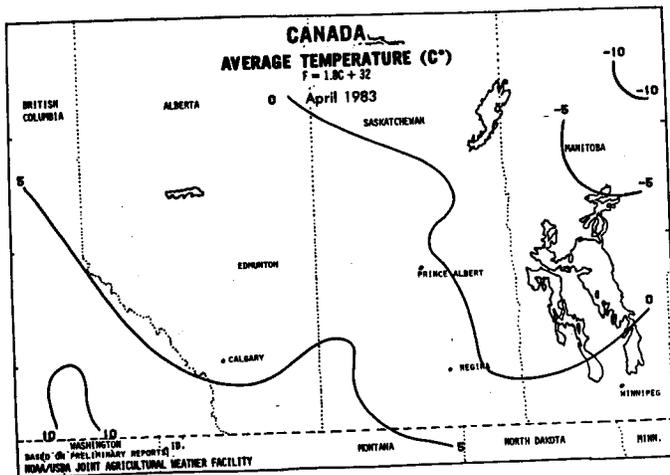
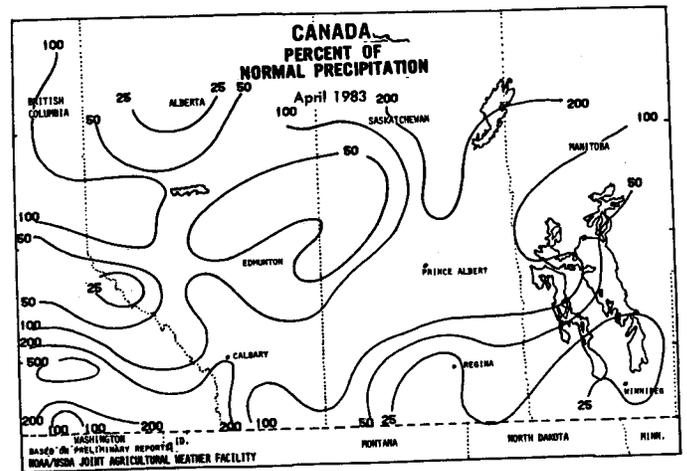
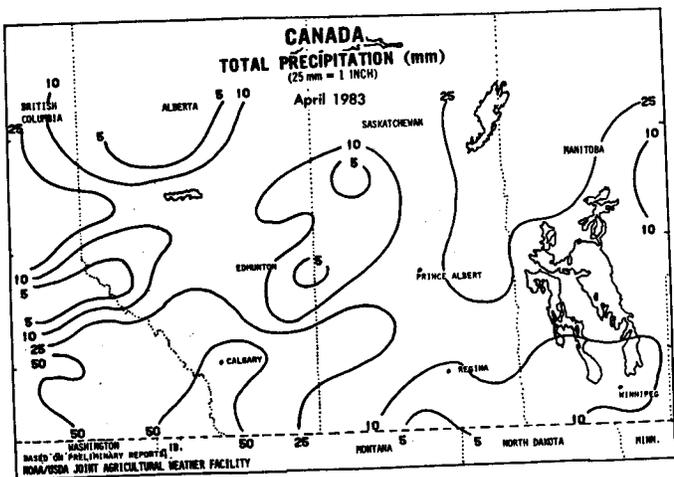
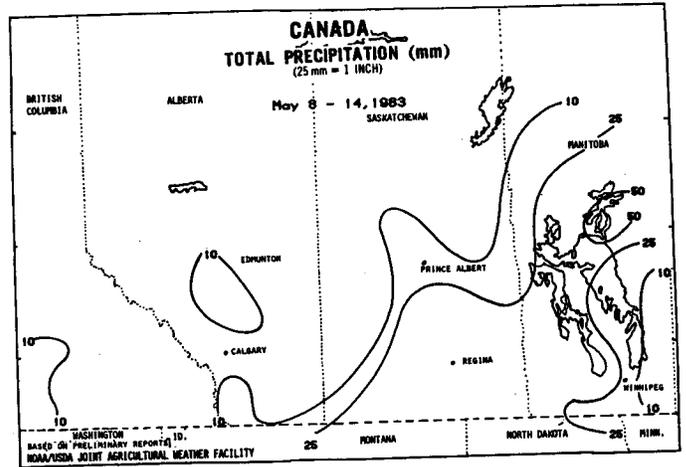
SOUTHEAST ASIA...Precipitation over most of Thailand during the week was relatively light, and accumulations were below normal, continuing the overall monthly pattern for April. However, localized storms brought moderate to heavy rain (50 mm) to northern Thailand and Laos as well as the important rice area of south-central Thailand. Corn and rice planting in Thailand usually begins in early May, but the lack of significant moisture could delay progress in the Central Plains. Above-normal temperatures during April further aggravated the dry conditions. Rain fell over Kampuchea early in the week, but Vietnam and southern Laos remained dry. The Philippines continued a dry pattern which has persisted through April.



**AUSTRALIA...**A storm, which tracked off the southern coast of Australia, brought beneficial moisture to eastern wheat areas of Victoria and the southern half of New South Wales. Only light showers covered the remainder of the wheat belt as the planting season got underway. Above-average April rains greatly improved planting conditions from Queensland to South Australia following the devastating drought which lasted over a year in some areas. Additional followup rains will be needed to sustain crop development, but early-season moisture is favorable for crop emergence. In Western Australia, however, April rainfall was below average, and only light showers covered the area recently. Significant rains will be needed soon to aid wheat planting in the west.



**CANADA...**Cold weather, accompanied by heavy snow across the eastern half of Saskatchewan and Manitoba, continued to delay spring wheat planting in the Prairie Provinces. The recent precipitation in eastern crop areas improved topsoil moisture supplies in the southeast where April precipitation was below average. April precipitation was above average elsewhere in the Prairies except in extreme northwestern crop areas. Monthly temperatures were below average in the east and above average in the northwest. Persistent coolness in recent weeks has slowed crop planting and germination, and the spring snow will further delay fieldwork. In general, planting progress is still minimal in Alberta, while southern and western crop areas of Saskatchewan have nearly half of the crop planted, and Manitoba's southwest crop area is up to 20 percent sown.

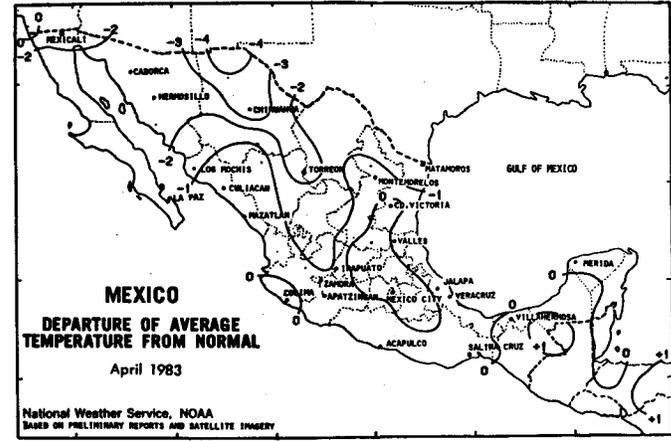
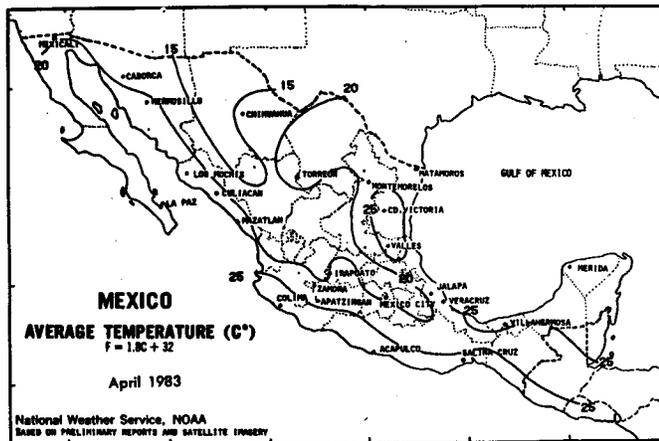
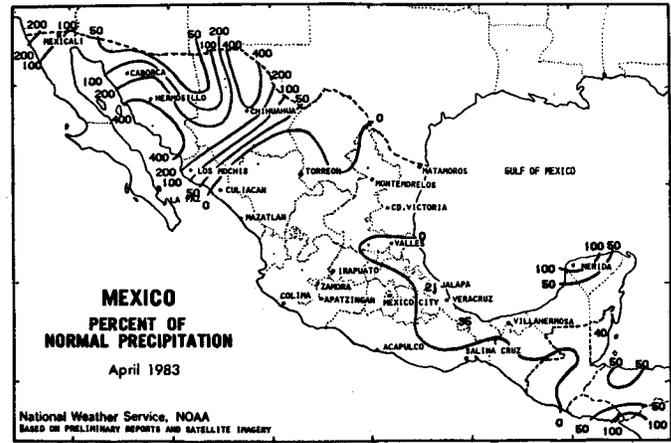
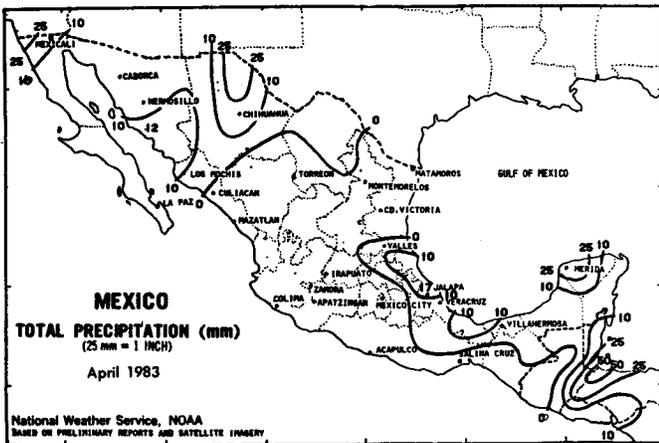


**National Weather Summary** (continued from front cover)

**FRIDAY...**A cold front moved to a line from Lake Michigan to central Oklahoma and into Texas. Moderate to heavy showers and thunderstorms fell along, ahead of and just behind the front as it moved southeastward. Tornadoes, hail, and heavy rain moved along the front from north-central Texas to central Illinois. Scattered showers and a few thunderstorms reached into the Ohio Valley and through the southern Appalachians to the Southeast. Rainshowers in eastern Colorado changed to snow and spread over the State late in the day.

**SATURDAY...**The cold front moved to a line from western New York to Kentucky, southern Arkansas, and into eastern Texas. Showers and thunderstorms covered a large portion of the Nation from the eastern central Plains to the eastern Great Lakes, and from Texas and Louisiana through the Ohio and Tennessee Valleys to the East Coast States from North Carolina to southern New England. Severe weather covered the area along the front from Arkansas to Kentucky. Snow continued in the central Rockies.

**MEXICO...** Dryness continued over most of the country along with unseasonably warm temperatures over eastern and central regions. Light, and limited showers fell over the upper Northeast and east-central coastal plains. Afternoon temperatures soared to 40 to 42°C last week in parts of the Northeast, keeping crop water needs high, especially in citrus orchards. April was also rather dry over most of the principal crop and livestock areas. Below-normal rain fell over parts of the Northwest, while no rain fell in the central and southern Plateau's corn, bean, and strawberry districts, causing much concern about the short moisture supply in the soil and reservoirs.



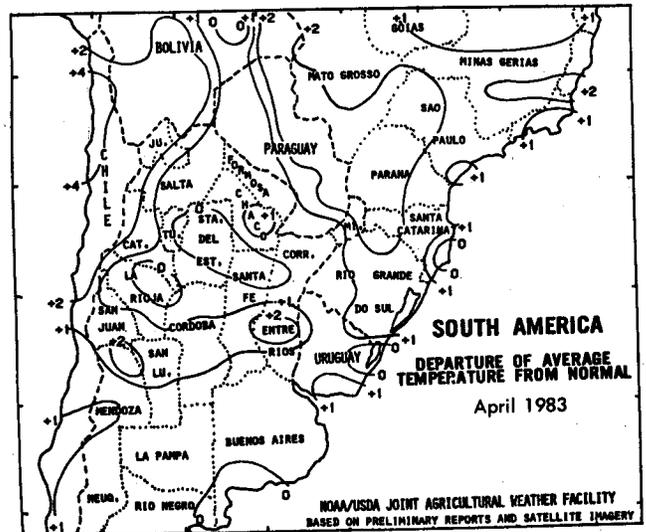
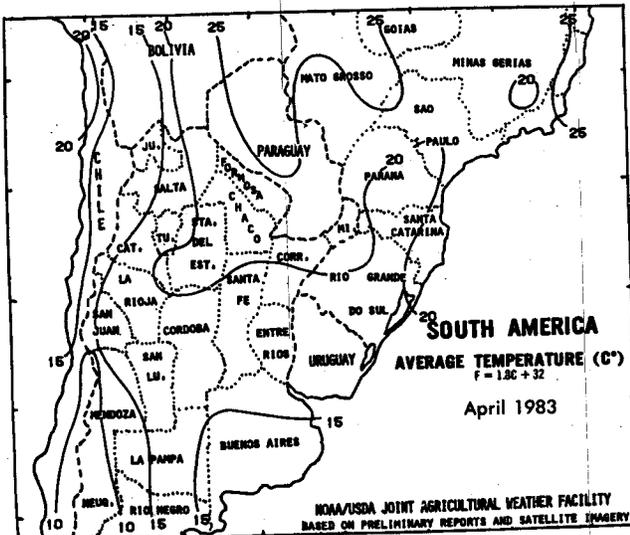
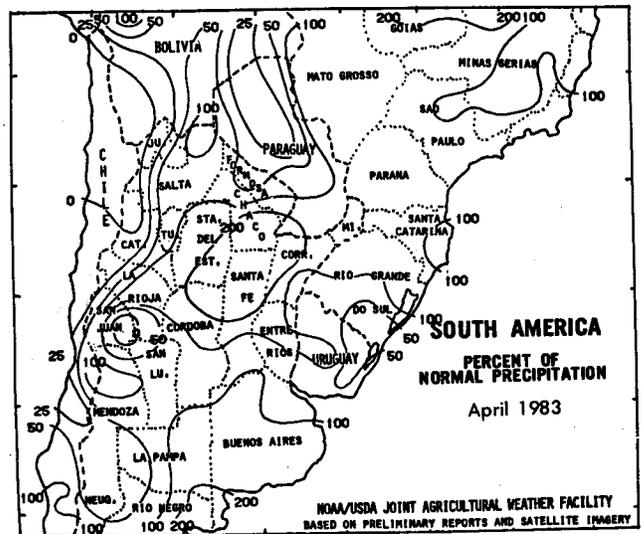
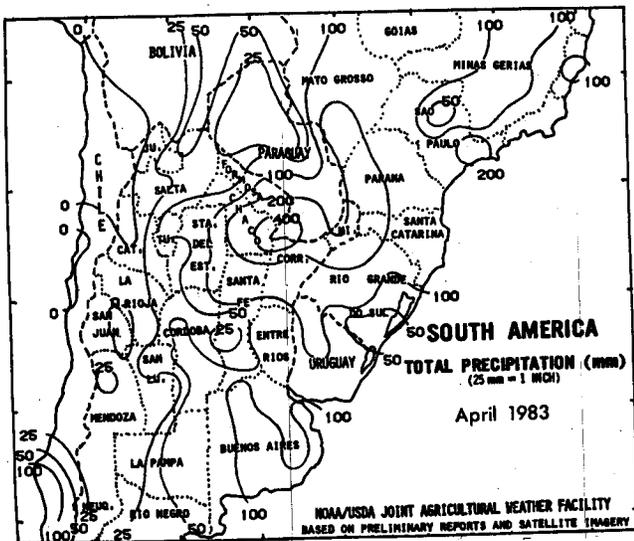
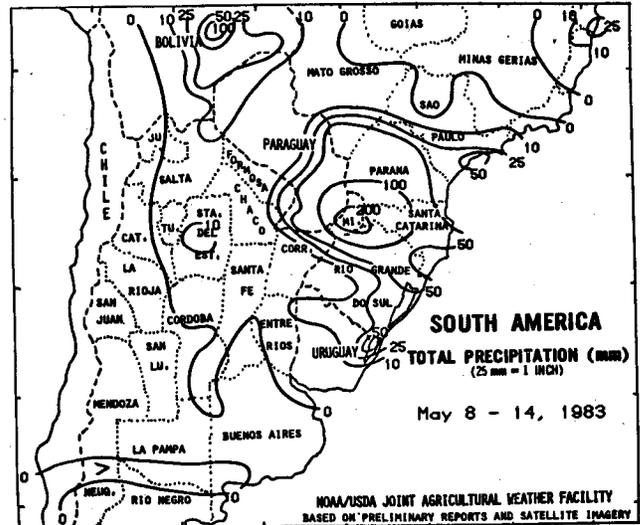
**State Summaries** (continued from p. 18)

amount of 1 to 2 in. were reported but amounts between 0.50 and 1.00 in. were most common. The daytime temperatures reached into the 70's in most sections with some low 80's reported in the southwest. Dry and cool weather moved back into the State 14th and 15th with scattered frost and freezing temperatures reported in many areas. Highest temperature 82° at La Farge on the 11th and the lowest temperature was 23° at Rhinelander on the 9th. Days suitable for fieldwork: 5.0. Soil moisture 8% short, 73% adequate, 19% surplus. Corn planted: 29%.

**WYOMING:** Most areas reached the 70's, dipped to teens later. Moisture above normal. Greatest amounts northeast and west central areas.

Topsoil moisture adequate Statewide, last year adequate 63% State. Days suitable for fieldwork: 3.0. Snowstorm stifled fieldwork. Spring wheat planted 70%. Oats planted 55%. Spring wheat, oats emerged 30%. Barley planted 70%, emerged 45%. Sugarbeets planted 60%. Corn planted 35%. Small amount corn emerged. Potatoes planted 25%. Winter wheat mostly good condition. Livestock mostly good condition. Unseasonable weather hard on calves and lambs. Some heavy losses. Spring calves born: 90%. Farm flock: Ewes lambled 90%; shorn 90%. Range sheep: Ewes lambled 75%; shorn 75%. Ranges, pastures mostly good condition.

**SOUTH AMERICA...** Heavy showers and thunderstorms again drenched soybean areas of Rio Grande do Sul, Santa Catarina, and Parana. The soybean harvest in Rio Grande do Sul has fallen well behind the normal pace due to waterlogged fields. The persistent wetness in recent weeks, which was reflected earlier by the above-average April rains throughout Brazil's crop areas, has also reduced the quality of the remaining 40 percent of Rio Grande do Sul's soybeans still to be harvested. Argentina welcomed drier weather during the week, following heavy rains which inundated cotton and rice areas and flooded the river systems in April and early May. The above-average April rains damaged the maturing crops in northeastern Argentina. Cool, autumn weather moved into the wheat areas of Buenos Aires during the week where above-average April rains provided timely moisture for wheat planting.



### April Crop Production Highlights

**WINTER WHEAT** production forecast at 1.89 billion bushels as of May 1, 10 percent less than last year's record high production of 2.11 billion bushels.

**CITRUS** production forecast at 13.4 million tons, 11 percent higher than last season.

**ORANGE** production forecast at 220 million boxes, 24 percent more than last season. As of May 1, 65 percent of crop harvested.

**GRAPEFRUIT** production forecast at 61.2 million boxes, 14 percent below last season. Eighty-four percent of crop harvested by May 1.

**LEMON** production at 26.5 million boxes, 7 percent above last season. As of May 1, 66 percent of crop harvested.

**PEACH** production in nine Southern States forecast at 325 million pounds, 21 percent less than last year's freeze-damaged crop.

### 1983 Planting Intentions

**CORN** growers intend to plant 58.8 million acres in 1983, down 28 percent from the 81.9 million acres planted in 1982.

**SOYBEAN** prospective plantings, at 65.8 million acres are down 9 percent from 1982.

**SORGHUM** plantings for all purposes are expected to total 12.0 million acres, down 26 percent from a year earlier.

**BARLEY** acreage intentions of 10.6 million acres are up 11 percent from 1982. Conservation use acreage for government programs is estimated at 489 thousand acres, less than 5 percent of total 1983 planting intentions.

**OATS** acreage intentions of 21.3 million acres are up 50 percent from 1982. Conservation use acreage for government programs is estimated at 8.96 million acres, 42 percent of all 1983 planting intentions, indicating 12.3 million acres will be available as acreage for grain.

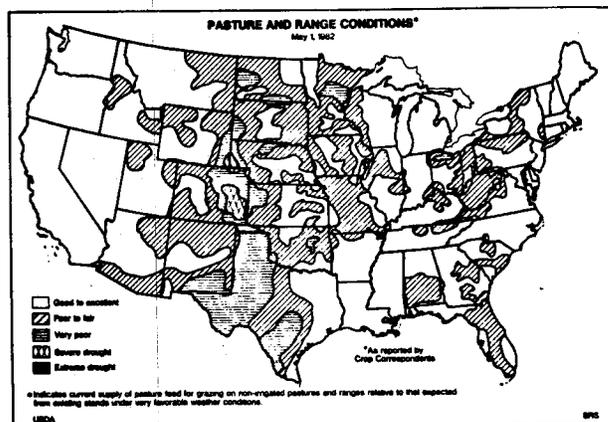
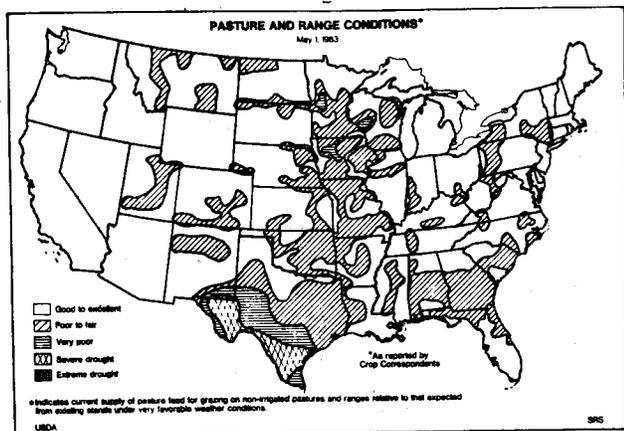
**ALL COTTON** planted area is expected to total 8.13 million acres, 28 percent below 1982 and 43 percent less than in 1981.

**DURUM WHEAT** growers intend to plant 2.83 million acres in 1983, down 35 percent from last year. Area seeded for conservation use under government programs in the six durum wheat producing States is expected to total 70 thousand acres, less than 3 percent of the total acreage seeded.

**OTHER SPRING WHEAT** growers expect to plant 11.6 million acres of other spring wheat in 1983, down 30 percent from last year. Area seeded for conservation use under government programs in the twelve other spring wheat producing States is expected to total 91 thousand acres, less than 1 percent of the total acreage seeded.

**RICE** prospective plantings, at 2.17 million acres, are down 34 percent from a year earlier.

**SUNFLOWER** growers intend to plant 3.59 million acres, down 28 percent from a year earlier.



### Streamflow (continued from p. 5)

Of the total 173 index gaging stations across the country, 99 were in the above-normal range--within the highest 25 percent of record. Most of these stations were scattered in small isolated areas of Texas, California, northern Wisconsin, the upper Michigan peninsula, northern Idaho, and much of eastern and northern Washington State.

Hawaii remained a dry spot in the United States, with all four of the State's key gaging stations--one on each of the major islands--reporting well-below average streamflow. Streamflow conditions have been below average in the islands now for 4 consecutive months.

Streamflow in most of Alaska was well-above average during the month in response to record-high temperatures in April, which caused an early break-up of ice in rivers and streams. A much below-average snowpack for the winter of 1982-83 was reported by State officials.

The Nation's ground-water resources rose seasonally during April, and record-high levels were set in key wells in Kentucky, Alabama, and Virginia. In New York, above-average precipitation, snow-free conditions, and the lack of ground frost produced extensive recharge to ground-water reservoirs. New monthly high levels were recorded in five wells, and two wells set new all-time high levels for the period of record. The level in the key index well near Rensselaer, N.Y., for example, stood at 8.38 feet below the land surface, about 2 feet above the long-term average and the highest level in this well in 28 years of record. The strong recharge and the record ground-water levels were especially welcome in wells in southeastern New York, where recent drought conditions had lowered water levels extensively.

(continued on back cover)



**WEEKLY NEWS BULLETIN  
SECOND CLASS**

OFFICIAL BUSINESS  
PENALTY FOR PRIVATE USE, \$300

Streamflow (continued from p. 31)

Working in cooperation with Federal, State and local officials, USGS routinely collects data on the quantity and quality of the Nation's surface and ground-water resources at more than 45,000 sites across the country. Highlights of April water conditions were as follows:

\* **Big Five Rivers:** Mississippi River near Vicksburg, Miss., 765 bgd, 29 percent above average and 60 percent above the March flow; St. Lawrence River near Massena, N.Y., 178 bgd, 4 percent above the seasonal average and 3 percent above the March flow; Ohio River at Louisville, Ky., 147 bgd, 9 percent above average and 86 percent above March; Missouri River at Hermann, Mo., 149 bgd, 161 percent above average and 93 percent above March's flow; and the Columbia River at The Dalles, Ore., 146 bgd, 2 percent above the average and 5 percent below March.

\* **Record-High April Flows on East Coast Streams:** New record-high April flows were established on several east coast streams. Flow of the Mohawk River at Cohoes, N.Y., averaged 13.8 bgd during April, 55 percent above average and the highest April flow in 66 years of record. The Mohawk also set a new daily high flow of the month of 41.4 bgd on April 26. The Potomac River near Washington, D.C., set a new April record of 31 bgd, breaking the previous record set in April 1933 and equaled again in April of 1937. Flow of the South Branch Raritan River near High Bridge, N.J., averaged 341 mgd during April, the highest April flow in 65 years of record. A new record daily flow was also set on the Raritan of 1.5 bgd on April 16.

\* **Mississippi Ground Water Responds to Wet Conditions:** The excessive rainfall that caused severe flooding in much of Mississippi during April caused ground-water levels in the shallow aquifers (water-bearing rock formations) to rise considerably during the month. In the Jackson metropolitan area, ground-water levels in the wells of the Sparta Sand aquifer are 2 to 7 feet higher than at this time last year.

Heating Degree Days (Base 65° F.)  
April 1983

ALA. Birmingham . . .	228	MAINE. Bangor . . .	712	OKLA. Okla. City . . .	345
Mobile . . .	119	Portland . . .	612	Tulsa . . .	321
Montgomery . . .	180	MD. Baltimore . . .	410	OKLA. Astoria . . .	428
ALASKA. Anchorage . . .	921	MASS. Boston . . .	476	Burlingame . . .	720
Barrow . . .	1871	Chatham . . .	583	Madford . . .	474
Fairbanks . . .	823	WICH. Alpena . . .	748	Pendleton . . .	470
Juneau . . .	-	Detroit . . .	618	Portland . . .	363
Seward . . .	-	Flint . . .	633	Renton . . .	428
ARIZ. Flagstaff . . .	835	Grand Rapids . . .	663	VA. Alexandria . . .	477
Phoenix . . .	55	Houghton Lake . . .	733	Erie . . .	381
Tucson . . .	168	Lansing . . .	681	Harrisburg . . .	468
Winslow . . .	494	Marquette . . .	919	Philadelphia . . .	356
Yuma . . .	25	S. Ste. Marie . . .	832	Pittsburgh . . .	535
ARK. Fort Smith . . .	332	MINN. Duluth . . .	687	Saratoga . . .	368
Little Rock . . .	316	Intermittent Falls . . .	797	R.I. Providence . . .	449
FRANCO. Fresno . . .	208	Minnesota . . .	673	S.C. Charleston . . .	449
CALIF. Bakersfield . . .	202	St. Cloud . . .	723	Columbia . . .	230
Bureka U. . .	394	MISS. Jackson . . .	176	Greenville . . .	307
Red Bluff . . .	252	Meridian . . .	170	S. Dak. Aberdeen . . .	697
Los Angeles . . .	187	Vicksburg . . .	501	Rapid City . . .	723
COLO. Denver . . .	304	MO. Columbia . . .	557	Sioux Falls . . .	688
San Diego . . .	83	St. Louis . . .	437	TEKS. Chattanooga . . .	321
San Francisco . . .	712	Springfield . . .	635	Knoxville . . .	356
COLO. Denver . . .	304	Great Falls . . .	664	Memphis . . .	273
Grand Junction . . .	462	Glasgow . . .	649	Nashville . . .	322
Publo . . .	561	W. Va. Martonsburg . . .	682	TX. Abilene . . .	209
CORN. Bridgeport . . .	501	W. Va. Charleston . . .	664	Austin . . .	93
Hartford . . .	483	W. Va. Charleston . . .	664	Newport . . .	40
D.C. Washington . . .	385	W. Va. Charleston . . .	664	Roanoke . . .	11
FLA. Apalachicola . . .	84	W. Va. Charleston . . .	664	W. Va. Charleston . . .	664
Key West . . .	109	W. Va. Charleston . . .	664	W. Va. Charleston . . .	664
Jacksonville . . .	0	W. Va. Charleston . . .	664	W. Va. Charleston . . .	664
Key West . . .	0	W. Va. Charleston . . .	664	W. Va. Charleston . . .	664
Lakeland U. . .	2	W. Va. Charleston . . .	664	W. Va. Charleston . . .	664
Miami . . .	13	W. Va. Charleston . . .	664	W. Va. Charleston . . .	664
Orlando . . .	8	W. Va. Charleston . . .	664	W. Va. Charleston . . .	664
Tallahassee . . .	102	W. Va. Charleston . . .	664	W. Va. Charleston . . .	664
Tampa . . .	20	W. Va. Charleston . . .	664	W. Va. Charleston . . .	664
GA. Atlanta . . .	261	W. Va. Charleston . . .	664	W. Va. Charleston . . .	664
Augusta . . .	198	W. Va. Charleston . . .	664	W. Va. Charleston . . .	664
Macon . . .	149	W. Va. Charleston . . .	664	W. Va. Charleston . . .	664
Savannah . . .	115	W. Va. Charleston . . .	664	W. Va. Charleston . . .	664
INDIAN. Boise . . .	530	W. Va. Charleston . . .	664	W. Va. Charleston . . .	664
Lawton . . .	470	W. Va. Charleston . . .	664	W. Va. Charleston . . .	664
Pocatello . . .	675	W. Va. Charleston . . .	664	W. Va. Charleston . . .	664
IL. Cairo . . .	348	W. Va. Charleston . . .	664	W. Va. Charleston . . .	664
Chicago . . .	643	W. Va. Charleston . . .	664	W. Va. Charleston . . .	664
Moline . . .	578	W. Va. Charleston . . .	664	W. Va. Charleston . . .	664
Peoria . . .	627	W. Va. Charleston . . .	664	W. Va. Charleston . . .	664
Rockford . . .	510	W. Va. Charleston . . .	664	W. Va. Charleston . . .	664
Springfield . . .	406	W. Va. Charleston . . .	664	W. Va. Charleston . . .	664
Fort Wayne . . .	528	W. Va. Charleston . . .	664	W. Va. Charleston . . .	664
INDIAN. Indianapolis . . .	498	W. Va. Charleston . . .	664	W. Va. Charleston . . .	664
South Bend . . .	481	W. Va. Charleston . . .	664	W. Va. Charleston . . .	664
IOWA. Burlington . . .	587	W. Va. Charleston . . .	664	W. Va. Charleston . . .	664
Des Moines . . .	641	W. Va. Charleston . . .	664	W. Va. Charleston . . .	664
Dubuque . . .	648	W. Va. Charleston . . .	664	W. Va. Charleston . . .	664
Sioux City . . .	508	W. Va. Charleston . . .	664	W. Va. Charleston . . .	664
KANS. Concordia . . .	623	W. Va. Charleston . . .	664	W. Va. Charleston . . .	664
Dodge City . . .	408	W. Va. Charleston . . .	664	W. Va. Charleston . . .	664
Goodland . . .	507	W. Va. Charleston . . .	664	W. Va. Charleston . . .	664
Topeka . . .	622	W. Va. Charleston . . .	664	W. Va. Charleston . . .	664
Wichita . . .	399	W. Va. Charleston . . .	664	W. Va. Charleston . . .	664
KY. Lexington . . .	114	W. Va. Charleston . . .	664	W. Va. Charleston . . .	664
Louisville . . .	93	W. Va. Charleston . . .	664	W. Va. Charleston . . .	664
LA. Baton Rouge . . .	49	W. Va. Charleston . . .	664	W. Va. Charleston . . .	664
Shreveport . . .	188	W. Va. Charleston . . .	664	W. Va. Charleston . . .	664

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