

WEEKLY WEATHER AND CROP BULLETIN

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

U.S. DEPARTMENT OF AGRICULTURE
National Agricultural Statistics Service and
World Agricultural Outlook Board

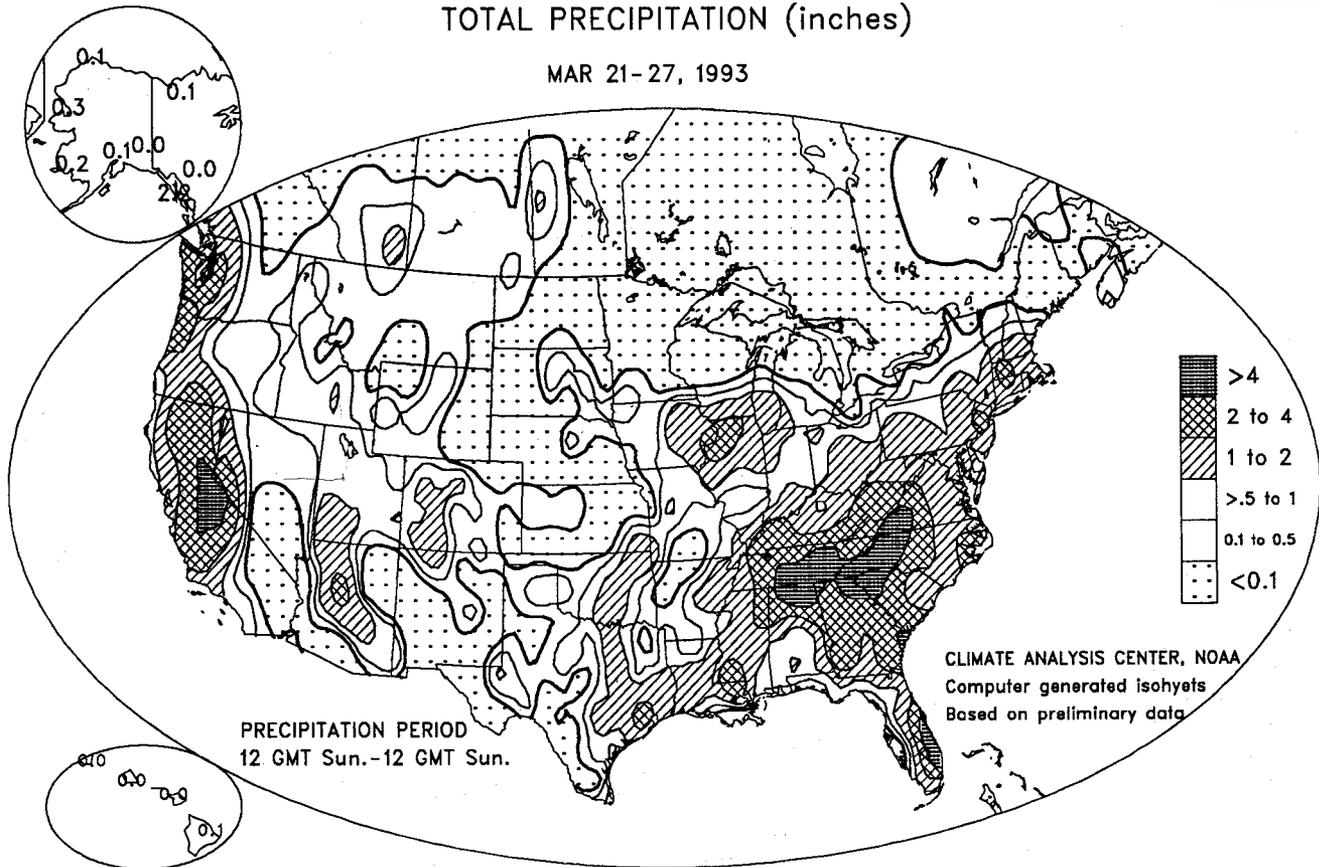
Volume 80, No. 13

Washington, D.C.

March 30, 1993

TOTAL PRECIPITATION (inches)

MAR 21-27, 1993



HIGHLIGHTS

March 21 - 27, 1993

Wet weather continued in the West and returned to the Southwest, while a slow-moving disturbance brought snow to the upper Midwest and heavy rain to the Southeast. Between storms, dry, warm air covered the High Plains, allowing temperatures to reach 80°F as far north as Montana. Early in the week, torrential rains drenched opposite corners of the Nation, and wet snow blanketed the upper Midwest. In Oregon, Brookings received 6.42 inches of rain in 2 days, and in Florida, West Palm Beach endured a 3-day total of 7.20 inches. Meanwhile, 1 foot of new snow covered Sioux Falls, SD, and 7 inches accumulated in Dubuque, IA. The low pressure center responsible for the snow drifted southeastward throughout the week, reaching the Southeast by week's end. Its varied impacts included cool, cloudy conditions in the Midwest, heavy rainfall on already-saturated soils from the

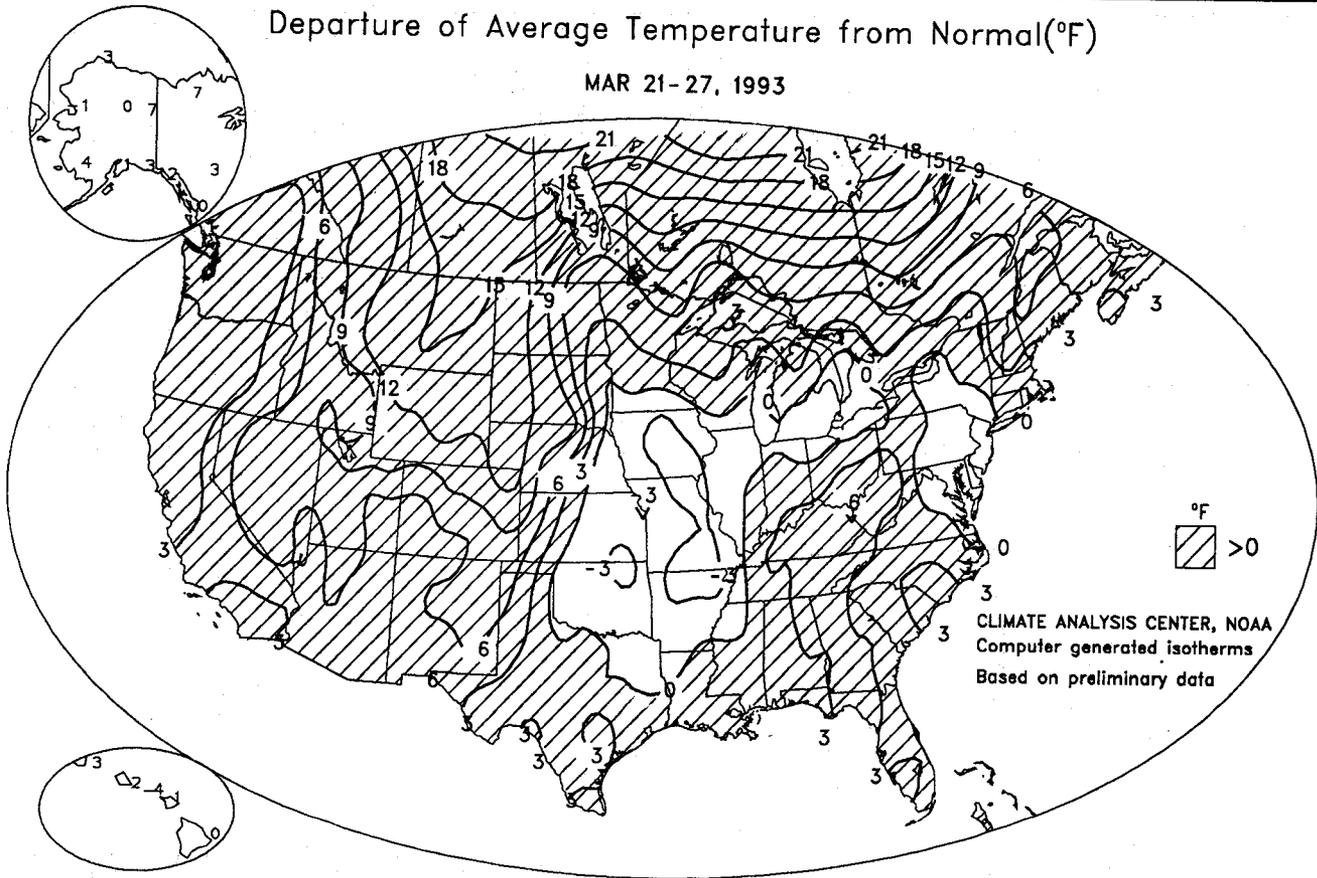
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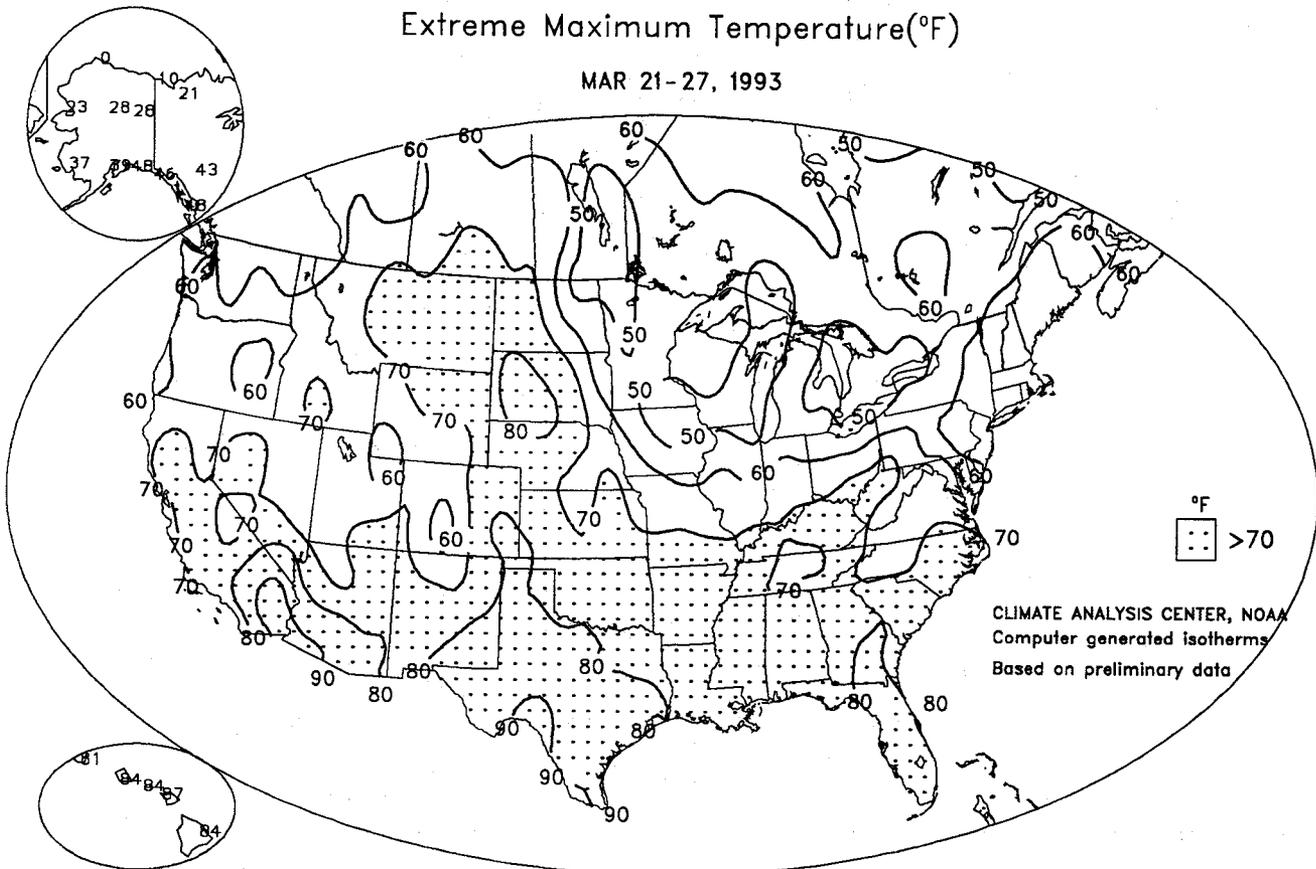
Departure of Average Temperature from Normal(°F)

MAR 21-27, 1993



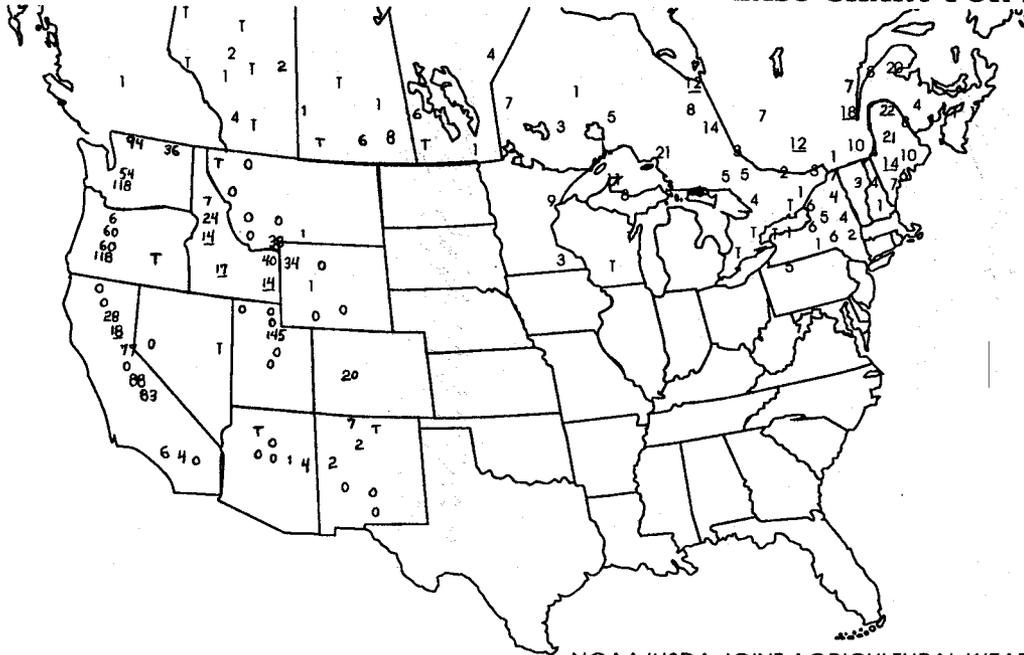
Extreme Maximum Temperature(°F)

MAR 21-27, 1993



Total Snow Cover (Inches) March 29, 1993

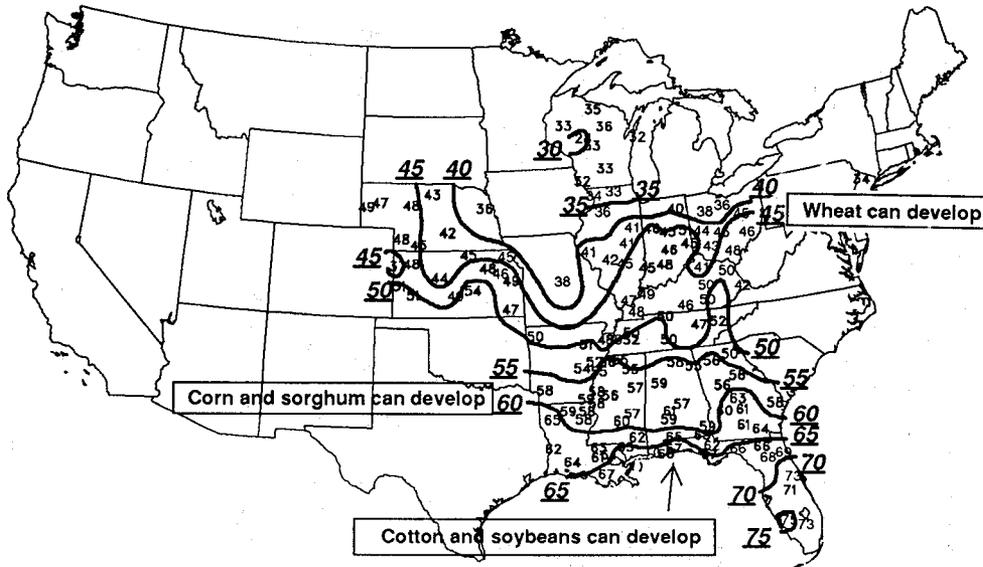
LAST CHART FOR SEASON



NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary reports

Average Soil Temperature (°F 4-Inch Bare)

March 21 - 27, 1993



NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary reports

National Weather Data for Selected Cities

Weather Data for the Week Ending March 27, 1993

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT	NUMBER OF DAYS					
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Mar 1	PCT. NORMAL SINCE Mar 1	TOTAL, IN., SINCE Jan 1		PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE		32 AND BELOW
													TEMP. °F				PRECIP.	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	68	50	73	39	59	3	.7	-1.0	.3	3.5	64	11.8	77	88	55	0	0	4	0
MOBILE	74	53	78	44	64	1	.4	-1.0	.2	6.3	112	18.9	98	98	58	0	0	0	0
MONTGOMERY	72	51	79	44	61	3	.4	-1.0	.3	6.1	111	15.8	100	87	52	0	0	0	0
AK ANCHORAGE	35	21	42	13	28	0	.1	.0	.1	1.3	47	2.4	111	80	56	0	7	2	2
BARROW	-4	-16	0	-31	-10	3	.1	.0	.0	.1	91	.7	209	78	73	0	7	0	0
FAIRBANKS	35	8	46	-6	22	6	.1	.0	.1	.3	81	3.0	242	72	43	0	7	2	2
JUNEAU	43	33	45	24	38	4	1.5	.8	.9	3.1	108	21.3	190	92	71	0	2	1	1
KODIAK	38	29	41	19	33	0	1.3	.2	.7	6.5	159	16.8	100	81	66	0	4	5	5
NOME	18	0	32	-25	9	-2	.5	.4	.3	1.6	368	3.9	212	87	78	0	7	0	0
AZ PHOENIX	81	57	88	49	69	5	1.2	1.0	.8	1.2	149	8.2	378	73	31	0	0	0	0
PRESCOTT	63	38	72	33	50	6	2.1	1.7	2.0	2.4	145	10.8	230	84	37	0	0	0	0
TUCSON	80	50	85	45	65	5	.1	.0	.1	.2	24	6.5	298	71	24	0	0	0	0
YUMA	83	59	91	52	71	5	.5	.4	.5	.5	229	3.4	435	51	27	3	0	0	0
AR FORT SMITH	64	41	77	37	53	-1	.7	-.9	.7	1.9	54	9.0	114	87	54	0	0	0	0
LITTLE ROCK	63	45	75	41	54	-2	1.1	-.1	.7	3.2	74	10.2	93	86	56	0	0	0	0
CA BAKERSFIELD	73	52	82	48	62	4	1.0	.8	.7	1.3	146	5.7	200	69	39	0	0	0	0
EUREKA	57	46	64	39	52	2	1.7	.5	1.4	4.2	89	17.3	112	87	60	0	0	0	0
FRESNO	69	51	81	49	60	4	1.2	.8	.9	1.6	99	9.3	171	93	57	0	0	0	0
LOS ANGELES	64	55	71	50	60	2	1.2	.8	.8	1.2	68	17.1	255	86	65	0	0	0	0
REDDING	63	47	76	41	55	2	2.5	1.6	1.3	6.1	155	23.9	166	94	53	0	0	0	0
SACRAMENTO	63	49	73	45	56	2	1.3	.8	.5	2.1	93	15.8	178	100	62	0	0	0	0
SAN DIEGO	65	58	67	53	61	1	.9	.6	.9	1.0	61	14.8	300	80	61	0	0	0	0
SAN FRANCISCO	61	50	66	48	56	2	1.3	.7	.4	2.1	77	18.1	176	88	68	0	0	0	0
CO DENVER	67	36	74	25	51	10	.7	-.3	.7	.3	25	1.6	73	58	23	0	0	0	0
GRAND JUNCTION	65	38	73	33	52	5	1.0	.7	1.0	1.4	155	3.9	195	72	28	0	1	1	1
PUEBLO	69	30	78	24	49	5	.3	.1	1.1	1.2	175	1.8	136	82	20	0	0	0	0
CT BRIDGEPORT	49	35	61	30	42	1	1.2	.4	.8	6.2	190	11.4	120	90	63	0	5	2	3
HARTFORD	50	32	66	23	41	0	1.3	.5	1.0	5.7	182	11.3	115	91	51	0	4	4	4
DC WASHINGTON	55	41	63	36	48	-2	1.4	.7	.7	6.4	230	11.5	141	95	68	0	0	0	0
FL APALACHICOLA	73	58	77	48	65	3	.1	-.8	1.1	3.8	102	14.2	124	**	**	0	0	2	2
DAYTONA BEACH	76	60	79	53	68	2	1.3	.6	.7	4.9	191	12.2	145	98	65	0	0	0	0
JACKSONVILLE	75	59	81	53	67	3	2.1	1.3	1.2	5.1	160	11.9	116	96	64	0	0	0	0
KEY WEST	80	71	83	69	76	1	.2	-.1	1.1	1.4	95	9.7	182	89	75	0	0	0	0
MIAMI	82	70	86	66	76	3	.4	-.2	1.2	6.0	288	13.2	213	90	64	0	0	0	0
ORLANDO	79	61	83	55	70	2	2.7	2.0	2.2	5.8	202	12.2	149	95	64	0	0	0	0
TALLAHASSEE	78	57	81	49	67	5	.6	-.8	.5	5.5	99	19.6	124	90	53	0	0	0	0
TAMPA	78	64	82	61	71	3	.1	-.6	.0	3.3	121	9.2	118	94	66	0	0	0	0
WEST PALM BEACH	80	67	85	64	73	1	8.4	7.7	5.6	10.8	418	20.8	262	92	71	0	0	0	0
GA ATLANTA	68	52	75	46	60	4	2.4	1.1	1.2	5.4	107	13.8	84	92	57	0	0	0	0
AUGUSTA	71	51	81	43	61	4	3.1	2.1	1.5	6.4	155	15.5	125	89	51	0	0	0	0
MACON	71	52	79	43	62	3	2.3	1.2	1.4	8.4	198	18.0	133	91	52	0	0	0	0
SAVANNAH	70	56	79	52	63	2	3.9	3.0	2.9	6.4	194	15.3	151	92	57	0	0	0	0
HI HILO	81	65	84	62	73	1	.1	-3.2	.1	11.3	94	16.1	50	88	56	0	0	0	0
HONOLULU	84	70	85	68	77	2	.0	.5	.0	.7	0	1.1	14	76	52	0	0	0	0
KAHULUI	84	65	87	61	74	1	.0	-.6	.0	1.2	49	3.6	38	82	53	0	0	0	0
LIHUE	80	72	81	71	76	3	.7	-.6	.0	.7	6	1.4	11	83	64	0	0	0	0
ID BOISE	59	41	68	34	50	6	.6	.3	.4	2.4	211	5.0	137	91	55	0	0	0	0
LEWISTON	58	42	66	39	50	4	.6	.3	.4	1.0	105	2.5	79	82	47	0	0	0	0
POCATELLO	58	34	65	26	46	8	.6	.3	.3	1.7	152	6.0	196	92	47	0	3	4	0
IL CHICAGO	42	33	45	29	38	-3	1.6	.9	1.1	2.8	124	7.5	145	97	87	0	2	4	1
MOLINE	44	32	57	25	38	-3	2.7	1.9	2.1	4.7	185	7.6	143	95	80	0	3	3	1
PEORIA	51	35	62	32	43	1	1.6	.9	1.4	3.5	141	8.7	161	96	71	0	1	2	1
QUINCY	47	35	60	32	41	-3	.8	.1	.8	1.6	59	4.9	89	93	77	0	1	2	1
ROCKFORD	42	34	50	31	38	-1	2.1	1.5	1.5	2.6	127	5.9	132	99	81	0	2	3	1
SPRINGFIELD	52	38	62	34	45	1	.7	-.1	.6	2.3	83	7.8	128	91	71	0	0	0	0
IN EVANSVILLE	59	42	69	33	51	1	.6	-.6	.4	2.5	57	8.6	80	89	66	0	0	0	0
FORT WAYNE	46	34	55	31	40	-1	.9	.2	.5	2.8	113	9.9	158	99	81	0	1	2	1
INDIANAPOLIS	54	38	65	34	46	2	.7	-.2	.5	2.9	88	8.5	106	95	69	0	0	0	0
SOUTH BEND	48	33	61	24	41	0	.7	-.1	.4	2.0	75	7.5	111	96	75	0	4	2	0
IA DES MOINES	44	33	56	29	39	-2	.3	-.3	.1	1.7	91	4.8	126	96	74	0	2	3	0
STIOUX CITY	46	32	64	30	39	-1	.1	-.4	.1	.2	14	3.0	104	98	67	0	5	2	0
WATERLOO	39	32	45	28	36	-2	1.0	.4	.5	2.2	111	4.0	106	98	80	0	4	3	1
KS CONCORDIA	56	32	69	27	44	0	.7	.6	.7	.7	36	3.3	101	95	51	0	4	0	0
DODGE CITY	64	33	73	25	48	2	.7	.4	.7	.9	66	4.7	193	93	44	0	4	0	0
GOODLAND	67	34	77	27	51	10	.4	-.1	.4	.8	79	2.2	123	89	34	0	3	1	0
TOPEKA	57	32	71	28	45	-2	.1	-.6	.1	.9	43	4.4	108	95	55	0	2	2	0
WICHITA	60	34	69	26	47	-2	.7	.6	.7	.8	34	3.7	87	89	52	0	2	0	0
KY BOWLING GREEN	61	45	67	40	53	3	1.2	.0	.7	3.2	71	9.0	72	98	62	0	0	0	0
LEXINGTON	61	43	71	39	52	4	.6	-.4	.4	2.9	77	9.5	96	92	60	0	0	0	0
LOUISVILLE	62	43	74	37	52	3	1.5	.4	.5	4.5	111	12.2	119	98	65	0	0	0	0
LA BATON ROUGE	74	54	80	46	64	3	.7	-.4	.7	5.3	127	21.5	147	97	54	0	0	0	0
LAKE CHARLES	73	54	77	47	63	1	1.2	.5	1.0	4.7	163	15.8	144	95	63	0	0	0	0
NEW ORLEANS	74	56	80	47	65	1	.4	-.6	.4	5.6	130	14.2	92	95	61	0	0	0	0
SHREVEPORT	70	47	79	42	59	-1	.2	-.7	.1	5.5	156	15.0	126	95	55	0	0	0	0

Based on 1961-90 normals.

Weather Data for the Week Ending March 27, 1993

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS						
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Mar 1	PCT. NORMAL SINCE Mar 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE		.50 INCH OR MORE	
																		90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
ME CARIBOU	47	22	66	8	34	6	.2	-.4	.2	1.7	82	6.0	93	86	43	0	7	2	0	0	
PORTLAND	46	27	62	17	36	6	.7	-.2	.4	5.0	156	11.6	115	94	51	0	7	3	0	0	
MD BALTIMORE	53	36	61	33	45	5	1.5	.5	7.4	248	12.9	141	95	62	0	0	0	4	1	0	
SALISBURY	55	37	60	28	46	5	1.5	.4	8.8	186	13.3	124	100	74	0	0	0	4	0	0	
MA BOSTON	47	35	60	32	41	1	1.5	.7	1.4	180	12.9	124	85	65	0	0	0	1	1	0	
CHATHAM	45	34	53	29	40	1	1.7	.1	1.5	169	11.6	106	96	56	0	2	3	3	1	0	
MI ALPENA	43	21	54	13	32	1	.3	.3	.3	18	2.5	52	98	60	0	0	0	0	0	0	
DETROIT	44	34	57	31	39	0	.3	.3	.2	93	7.2	127	94	73	0	1	1	2	0	0	
FLINT	43	31	50	28	37	0	.2	.3	.2	66	5.2	116	97	60	0	0	1	1	0	0	
GRAND RAPIDS	41	32	51	29	37	1	.5	.2	.5	101	7.6	139	97	62	0	5	5	3	0	0	
HOUGHTON LAKE	48	24	58	12	36	4	.7	.7	.7	42	3.4	76	95	44	0	6	6	0	0	0	
LANSING	42	32	48	29	37	4	.4	.2	.4	82	5.9	130	97	75	0	4	4	1	0	0	
MARQUETTE	48	17	59	5	33	6	.7	.7	.9	37	4.0	63	92	47	0	7	7	0	1	0	
MUSKEGON	45	31	57	28	38	2	.6	.1	.6	73	5.0	83	92	56	0	4	4	1	1	0	
SAULT ST. MARIE	42	24	54	15	33	3	.6	.6	.4	18	2.8	45	95	44	0	7	7	0	0	0	
MN ALEXANDRIA	42	25	49	5	34	3	.5	.5	.6	49	1.6	58	95	68	0	6	6	0	0	0	
DULUTH	44	24	55	12	34	8	.5	.5	.3	21	2.6	70	92	55	0	5	5	0	0	0	
INT'L FALLS	46	22	60	8	34	8	.3	.3	.3	28	1.0	43	99	47	0	7	7	1	0	0	
MINNEAPOLIS	44	28	53	25	36	3	.5	.5	.5	31	2.2	62	91	47	0	7	7	1	0	0	
ROCHESTER	38	28	43	24	33	1	.2	.2	.6	38	2.6	85	96	56	0	7	7	2	0	0	
MS GREENWOOD	66	47	74	39	57	1	1.1	1.0	1.9	37	7.6	52	100	58	0	0	0	4	1	0	
JACKSON	70	49	76	43	59	1	1.7	.7	2.5	49	10.6	69	94	58	0	0	0	3	1	0	
MERIDIAN	70	49	75	43	59	1	1.1	.5	5.5	94	20.0	121	95	53	0	0	0	3	1	0	
MO CAPE GIRARDEAU	55	43	71	39	49	1	1.0	.2	3.2	74	11.9	112	96	70	0	0	0	3	0	0	
COLUMBIA	51	36	68	34	44	1	.5	.3	1.9	70	6.2	105	97	79	0	0	0	3	0	0	
KANSAS CITY	53	33	65	30	43	1	.1	.6	.8	36	4.0	93	94	64	0	3	2	2	0	0	
SAINT LOUIS	52	40	65	37	46	2	1.0	.1	2.9	93	9.2	130	91	73	0	0	0	2	1	0	
SPRINGFIELD	57	36	74	31	46	2	1.1	.8	2.2	68	7.7	111	97	65	0	1	1	1	0	0	
MT BILLINGS	66	41	78	37	53	16	.1	.2	.3	35	1.1	44	71	24	0	0	0	1	0	0	
GLASGOW	62	36	79	30	49	16	.7	.6	.7	203	1.3	129	85	40	0	2	2	1	1	0	
GREAT FALLS	56	38	74	33	47	12	.4	.1	.8	89	2.7	112	80	45	0	0	0	3	0	0	
HAVRE	58	37	75	32	48	13	.2	.0	.2	29	.8	55	89	46	0	1	1	1	0	0	
HELENA	60	35	74	30	47	11	.3	.2	.3	90	2.4	143	84	39	0	2	2	0	0	0	
KALISPELL	51	31	62	28	43	7	.2	.0	.1	72	2.9	83	91	50	0	2	2	3	0	0	
MILES CITY	65	38	78	31	51	15	.4	.2	.4	1.0	1.9	127	88	41	0	1	1	1	0	0	
MISSOULA	57	37	68	31	47	9	.3	.1	.5	61	2.1	71	94	51	0	2	2	3	0	0	
NE GRAND ISLAND	53	29	67	24	41	0	.5	.5	.6	36	3.2	115	93	51	0	5	1	0	0	0	
LINCOLN	52	28	70	24	40	-2	.2	.5	1.0	54	2.2	72	98	56	0	6	2	2	0	0	
NORFOLK	49	29	68	26	39	0	.1	.4	.1	18	3.3	115	94	54	0	5	2	0	0	0	
NORTH PLATTE	64	29	71	22	46	7	.5	.3	.5	45	2.6	143	93	43	0	6	6	0	0	0	
OMAHA	48	34	68	30	41	-1	.2	.4	.9	48	2.7	83	89	65	0	3	1	0	0	0	
SCOTTSBLUFF	68	34	76	27	51	12	.0	.3	.9	97	3.0	159	88	28	0	4	4	0	0	0	
VALENTINE	69	31	85	22	50	11	.1	.3	.3	29	1.5	69	90	32	0	4	1	0	0	0	
NV BLY	57	30	66	22	44	8	.5	.3	.3	87	4.2	191	77	38	0	4	2	0	0	0	
LAS VEGAS	76	53	84	49	65	7	.1	.0	.1	21	4.2	322	54	23	0	0	0	2	0	0	
RENO	59	38	74	30	49	4	.4	.3	.4	62	4.1	150	76	35	0	1	3	0	0	0	
WINNEMUCCA	60	39	72	32	50	8	.8	.6	1.3	191	3.8	187	84	40	0	1	4	0	0	0	
NH CONCORD	51	27	70	20	39	4	1.0	.4	.9	2.4	103	5.5	75	96	44	0	7	3	1	0	
NJ ATLANTIC CITY	53	32	61	27	43	-1	.8	.0	.5	6.7	215	11.8	122	93	64	0	3	3	0	0	
NM ALBUQUERQUE	71	41	76	35	56	7	.1	-.1	.1	23	2.9	208	53	16	0	0	2	0	0	0	
CLOVIS	71	40	80	35	56	6	.1	.0	.1	42	1.1	79	78	23	0	0	2	0	0	0	
ROSWELL	77	44	84	37	61	6	.1	.1	.2	9	1.0	85	72	21	0	0	0	0	0	0	
NY ALBANY	49	28	65	18	39	1	1.0	.3	.5	3.3	130	8.3	116	93	51	0	6	3	0	0	
BINGHAMTON	44	26	58	18	35	-1	.9	.2	.6	3.1	129	8.0	111	95	54	0	7	3	1	0	
BUFFALO	45	30	56	25	37	1	.2	-.5	.1	2.7	116	9.0	122	94	62	0	4	2	0	0	
NEW YORK	49	37	63	32	43	-1	1.4	.5	.8	5.9	190	12.2	136	89	63	0	1	4	1	0	
ROCHESTER	44	28	51	23	36	-1	.3	-.3	.2	2.2	112	6.1	99	97	56	0	5	2	0	0	
SYRACUSE	46	25	61	15	36	-1	.7	.1	.4	3.4	144	8.9	130	91	55	0	5	3	0	0	
NC ASHEVILLE	59	45	66	35	52	2	3.1	1.9	1.7	5.9	118	11.8	88	96	72	0	0	4	3	0	
CHARLOTTE	65	52	71	44	58	5	2.9	2.0	1.6	7.2	184	16.1	141	87	65	0	0	5	2	0	
GREENSBORO	60	47	68	35	53	2	2.2	1.4	1.4	7.2	220	14.2	145	93	70	0	0	5	2	0	
HATTERAS	61	47	73	42	54	1	1.7	.7	1.3	6.6	174	17.6	133	95	69	0	0	4	1	0	
NEW BERN	68	47	77	37	58	2	2.8	2.0	1.2	6.8	198	15.7	131	96	56	0	0	3	3	0	
RALEIGH	64	47	74	36	55	3	1.6	.8	.8	6.1	181	12.8	121	91	66	0	0	4	2	0	
WILMINGTON	68	50	74	41	59	4	1.3	.4	1.1	6.0	153	14.8	114	96	57	0	0	2	1	0	
ND BISMARCK	59	27	72	20	43	11	.2	.2	.2	29	.8	53	93	42	0	5	0	0	0	0	
FARGO	41	24	54	2	32	2	.0	-.3	.0	.4	1.4	69	93	60	0	5	0	0	0	0	
GRAND FORKS	41	26	54	5	33	5	.2	.2	.3	.3	.7	35	97	73	0	4	0	0	0	0	
WILLISTON	60	32	76	27	46	14	.3	-.1	.3	.5	1.0	65	85	45	0	3	1	0	0	0	
OR AKRON-CANTON	51	35	62	31	43	2	.9	.2	.7	3.7	130	9.7	133	98	70	0	1	3	1	0	
CINCINNATI	58	40	70	35	49	3	.7	-.3	.5	3.0	82	10.2	115	93	62	0	0	3	1	0	
CLEVELAND	43	34	49	30	38	-2	.4	-.3	.4	2.9	116	9.9	147	98	77	0	2	2	0	0	
COLUMBUS	57	39	69	36	48	7	.8	.0	.7	3.1	114	9.1	131	95	62	0	0	2	1	0	
DAYTON	54	37	64	33	46	2	.9	.1	.8	3.5	118	10.1	140	95	70	0	0	3	1	0	

Based on 1961-90 normals.

Weather Data for the Week Ending March 27, 1993

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT	NUMBER OF DAYS								
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Mar 1	PCT. NORMAL SINCE Mar 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE	MAXIMUM	MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE		.50 INCH OR MORE	
																			TEMP. °F	PRECIP.		
TOLEDO	43	34	51	31	38	-1	1.0	.3	.8	3.0	132	7.9	137	97	78	0	0	0	3	3	1	0
YOUNGSTOWN	49	33	58	30	41	2	.7	.0	.5	3.9	9.6	146	98	68	0	0	0	3	4	0	0	
OK OKLAHOMA CITY	65	39	74	33	52	-1	.5	-.1	.5	.9	38	5.4	108	93	45	0	0	0	4	4	0	0
TULSA	61	38	72	32	50	-4	1.2	.4	1.2	2.1	70	7.0	109	91	55	0	0	0	0	1	1	0
OR ASTORIA	53	37	57	30	45	-1	2.3	.8	2.2	6.8	108	14.3	60	97	60	0	0	0	1	1	1	0
BURNS	50	31	54	21	40	2	.2	-.1	.1	1.3	148	3.7	140	85	55	0	0	0	3	3	0	0
MEDFORD	58	38	67	34	48	0	.4	.0	.3	1.1	67	5.1	82	96	64	0	0	0	0	0	0	0
PENDLETON	57	39	70	31	48	2	.6	.3	.4	1.5	141	4.1	110	84	49	0	0	0	0	0	0	0
PORTLAND	61	40	67	33	51	2	1.2	.5	.8	3.8	122	7.6	62	92	42	0	0	0	0	0	0	0
SALEM	62	38	66	32	50	3	1.6	.7	1.1	4.8	130	11.2	79	88	43	0	0	0	0	0	0	0
PA ALLENTOWN	49	31	62	27	40	-2	1.3	.5	.7	5.8	204	10.6	118	94	60	0	0	0	0	0	0	0
ERIE	40	31	44	29	36	-3	.3	-.4	.3	2.8	109	8.2	116	95	73	0	0	0	0	0	0	0
HARRISBURG	50	35	59	34	43	-1	T	-.7	T	3.2	113	7.1	82	97	56	0	0	0	0	0	0	0
PHILADELPHIA	52	38	62	33	45	1	1.4	.6	.6	6.0	200	11.0	115	88	63	0	0	0	0	0	0	0
PITTSBURGH	55	40	70	35	47	5	.4	-.4	.3	2.8	96	8.8	111	97	63	0	0	0	0	0	0	0
SCRANTON	47	29	61	23	38	-1	1.0	.4	.6	3.9	176	6.9	107	94	57	0	0	0	0	0	0	0
RI PROVIDENCE	50	32	69	24	41	1	1.5	.6	1.4	6.2	176	13.7	125	94	56	0	0	0	0	0	0	0
SC CHARLESTON	70	55	77	49	63	3	2.4	1.4	1.8	5.4	141	17.4	165	92	67	0	0	0	0	0	0	0
COLUMBIA	68	49	75	43	59	1	2.3	1.3	1.4	5.6	131	16.3	127	95	66	0	0	0	0	0	0	0
FLORENCE	70	52	74	46	61	4	.6	-.4	.3	2.4	66	11.5	110	94	54	0	0	0	0	0	0	0
GREENVILLE	63	48	71	42	56	2	4.6	3.4	2.1	9.4	197	20.1	151	93	61	0	0	0	0	0	0	0
SD ABERDEEN	48	28	67	15	38	5	T	-.3	T	.1	15	1.2	58	91	54	0	0	0	0	0	0	0
HURON	47	29	69	20	38	3	.7	.2	.7	.7	51	1.6	64	94	54	0	0	0	0	0	0	0
RAPID CITY	67	34	82	24	50	14	T	-.3	T	.1	14	1.4	82	84	32	0	0	0	0	0	0	0
STIOUX FALLS	43	30	60	22	37	0	1.2	.7	1.0	1.2	88	2.7	108	92	52	0	0	0	0	0	0	0
TN CHATTANOOGA	65	49	73	45	57	4	3.6	2.2	1.8	7.0	132	15.8	106	93	65	0	0	0	0	0	0	0
KNOXVILLE	64	48	71	41	56	4	1.7	.6	.8	5.0	112	11.3	89	97	63	0	0	0	0	0	0	0
MEMPHIS	63	47	72	38	55	0	.7	-.5	.5	2.0	43	8.1	63	98	66	0	0	0	0	0	0	0
NASHVILLE	63	47	71	42	55	2	3.2	2.1	1.2	5.4	127	11.2	96	91	64	0	0	0	0	0	0	0
TX ABILENE	72	46	84	34	59	0	.2	-.1	.1	.8	68	2.9	87	86	43	0	0	0	0	0	0	0
AMARILLO	69	38	78	36	54	4	.7	.5	.4	1.1	133	2.2	115	91	37	0	0	0	0	0	0	0
AUSTIN	75	55	84	51	65	1	.6	.2	.6	2.0	126	8.6	157	88	56	0	0	0	0	0	0	0
BEAUMONT	74	56	83	50	65	1	1.4	.6	1.4	5.5	194	19.5	178	99	57	0	0	0	0	0	0	0
BROWNSVILLE	82	65	87	58	74	3	.6	.4	.6	1.7	378	6.4	207	96	72	0	0	0	0	0	0	0
CORPUS CHRISTI	77	63	84	57	70	3	.1	-.1	.1	2.7	327	4.8	107	95	72	0	0	0	0	0	0	0
DEL RIO	80	60	94	54	70	6	.2	-.1	.1	.2	22	1.6	46	77	54	1	0	0	0	0	0	0
EL PASO	79	49	82	46	64	7	.0	-.1	.0	T	0	1.7	156	48	16	0	0	0	0	0	0	0
FORT WORTH	71	47	80	41	59	2	1.0	.3	1.0	2.6	100	10.1	148	88	47	0	0	0	0	0	0	0
GALVESTON	68	61	74	59	64	1	.7	.2	.5	4.9	256	17.9	241	93	70	0	0	0	0	0	0	0
HOUSTON	75	56	84	49	65	2	1.8	1.1	1.8	6.4	233	14.9	146	94	58	0	0	0	0	0	0	0
LUBBOCK	73	41	85	37	57	4	.1	-.1	.0	.3	30	1.6	91	86	30	0	0	0	0	0	0	0
MIDLAND	75	45	86	35	60	2	T	-.1	T	.60	60	2.4	162	86	37	0	0	0	0	0	0	0
SAN ANGELO	76	47	87	36	62	1	T	-.2	T	.27	27	2.0	75	90	44	0	0	0	0	0	0	0
SAN ANTONIO	76	58	88	54	67	3	.1	-.3	.0	1.2	94	6.3	130	84	57	0	0	0	0	0	0	0
VICTORIA	77	60	88	55	68	4	.1	-.4	.1	2.8	143	9.6	118	95	59	0	0	0	0	0	0	0
WACO	72	49	78	44	60	0	.8	.2	.8	4.3	213	10.6	184	94	58	0	0	0	0	0	0	0
WICHITA FALLS	70	42	81	36	56	0	.5	.0	.5	2.3	109	6.9	127	91	44	0	0	0	0	0	0	0
UT CEDAR CITY	60	35	69	26	48	6	.7	.4	.5	.9	79	5.3	191	79	34	0	0	0	0	0	0	0
SALT LAKE CITY	65	43	71	34	54	11	.2	-.3	.2	.3	66	5.3	99	96	39	0	0	0	0	0	0	0
VT BURLINGTON	49	23	61	13	36	2	.4	-.1	.2	.9	53	5.4	136	73	34	0	0	0	0	0	0	0
VA NORFOLK	58	42	67	32	50	-1	.5	-.3	.3	5.6	173	12.9	123	92	66	0	0	0	0	0	0	0
RICMOND	62	42	68	34	52	2	1.5	.7	1.0	6.7	210	14.0	146	97	61	0	0	0	0	0	0	0
ROANOKE	57	43	66	33	50	0	2.3	1.5	1.4	7.6	250	14.8	171	96	66	0	0	0	0	0	0	0
WA QUILLAYUTE	53	36	57	27	44	1	3.6	1.1	2.2	10.5	104	19.3	52	98	62	0	0	0	0	0	0	0
SEATTLE-TACOMA	56	40	61	35	48	2	2.1	1.3	1.5	4.4	142	8.9	71	91	47	0	0	0	0	0	0	0
SPOKANE	52	35	57	31	44	4	.5	.2	.4	1.1	86	3.4	72	89	48	0	0	0	0	0	0	0
YAKIMA	59	33	62	26	46	1	T	-.1	T	.6	103	2.2	87	88	40	0	0	0	0	0	0	0
WV BECKLEY	54	43	63	34	49	4	1.4	.7	.8	5.8	196	10.2	116	98	74	0	0	0	0	0	0	0
CHARLESTON	61	43	75	31	52	4	1.7	.9	1.1	5.2	164	10.1	111	97	60	0	0	0	0	0	0	0
HUNTINGTON	62	44	74	34	53	7	1.0	.2	.7	4.7	152	10.6	116	96	59	0	0	0	0	0	0	0
PARKERSBURG	60	42	74	32	51	6	2.9	2.0	2.0	7.8	235	12.3	131	97	55	0	0	0	0	0	0	0
WI GREEN BAY	39	30	44	22	35	1	.1	-.4	.1	.5	29	2.3	58	93	61	0	0	0	0	0	0	0
LACROSSE	43	30	49	26	36	0	.0	.5	.0	.7	43	3.1	88	94	58	0	0	0	0	0	0	0
MADISON	39	33	45	29	36	1	1.1	.6	.5	1.7	96	4.5	113	92	75	0	0	0	0	0	0	0
MILWAUKEE	39	32	42	27	36	-1	1.1	.6	.5	1.9	85	5.5	104	96	80	0	0	0	0	0	0	0
WAUSAU	44	28	55	24	36	3	T	-.5	T	.4	24	2.2	64	97	62	0	0	0	0	0	0	0
WY CASPER	65	36	72	25	50	15	T	-.2	T	.4	44	2.1	107	98	28	0	0	0	0	0	0	0
CHEYENNE	61	32	70	24	47	11	T	-.3	T	.4	44	1.6	94	66	25	0	0	0	0	0	0	0
LANDER	61	35	68	27	48	12	.1	-.2	.1	.4	46	1.8	88	67	27	0	0	0	0	0	0	0
SHERIDAN	65	36	77	29	50	14	T	-.2	T	.5	65	1.4	64	75	26	0	0	0	0	0	0	0

Based on 1961-90 normals.

National Agricultural Summary

March 22 - 28, 1993

HIGHLIGHTS: A slow-moving storm brought rain from the central Plains to the Atlantic seaboard. The moisture hindered fieldwork in the Southeast and kept pastures muddy. Storms along the Pacific coast the early part of the week delayed fieldwork. By the end of the week, another storm brought moisture to the southern Rockies. Temperatures across the Nation were above normal in all areas except from central New York to northern Virginia and the central Mississippi Valley. The mild conditions reduced livestock stress and removed most of the remaining snow cover.

SMALL GRAINS: The warm weather across the upper Plains melted most of the winter wheat's remaining snow cover. Wheat remained dormant in the upper Midwest. However, higher temperatures further west allowed the wheat to break dormancy as far north as Montana. The Kansas wheat condition rated 90 percent (%) good to excellent. Although warmer weather gave the crop a boost, Kansas wheat progress remained behind normal. The Texas crop responded well to the warm weather. The condition of the Texas crop rated 76% of normal, compared with 83% last year. Winter wheat in Washington appeared to have survived the harsh winter better than expected. Oats, barley, and rye are in fair to good condition in the Southeast. Small grain planting continued from Kansas to Idaho. Planting progress in this area was behind normal due to wet fields.

CORN: Rains delayed planting progress in the Southeast. In Georgia, planting progress reached only 18%, compared with 45% last year and 43% average. Wet fields also delayed progress in South Carolina. In Oklahoma, planting progress of 9%, compared with 5% last year and 7% average. Wet conditions hampered corn planting in Texas. The cool weather delayed emergence of planted fields in the Texan Blacklands. Early-seeded corn emerged in California.

COTTON: Rain at week's end delayed planting in Arizona. Arizona planting progress reached 7%, compared with 10% last year, and 15% average. In California, planting gained momentum in the desert areas and had just begun in the San Joaquin Valley. Storm-damaged fields were replanted in the Rio Grande Valley of Texas. Planting in central Texas began where conditions allowed. Land preparation continued on the Texas Plains and in Oklahoma.

OTHER FIELD CROPS: The alfalfa harvest was active in California and Arizona. Harvest in Arizona was moderate to heavy in all areas except in the southeast. Onion planting in Colorado was behind last year's pace and average. Planting advanced in Washington. Frequent showers hampered disease control efforts on Georgia onions. New Mexico onions rated mostly good, with most transplants set. The California onion crop progressed well. Potato planting continued in Washington and land preparation was underway in Idaho. Wet conditions delayed planting progress in North Carolina. Sugar beet planting began in Colorado and land preparation began in Idaho. Tobacco bed preparation continued in Kentucky. In the Southeast, wet conditions hampered tobacco planting and seed bed preparations, especially in Virginia. Cold weather caused some tobacco plant damage in South Carolina. Some tobacco fields in Georgia are still trying to recover from the March 13 storm.

SORGHUM: Good weather in Kansas allowed the harvesting of the 1992 sorghum crop to continue. Quality of the harvested grain was good. Poor weather conditions delayed the planting of the 1993 crop in the Blackland and Central regions of Texas. Some fields were replanted along the Upper Coast of Texas. Wet conditions delayed land preparation in Oklahoma and planting progress in Louisiana. Cool weather delayed emergence in Texas.

FRUIT AND NUTS: Peaches in the Southeast are in mostly fair condition. Cool weather damaged some early peaches in South Carolina. In Texas, peaches are setting fruit in most areas. Citrus harvests advanced in Arizona, California, and Florida. In California, the current navel orange harvest is two-thirds complete. The Valencia harvest was slow. New crop citrus growth was apparent. The Florida citrus groves are in good to excellent condition, with adequate moisture. Ideal growing conditions have caused abundant new growth. Weed and pest control activities occurred in orchards in the Northwest. California cherries are past bloom. Grapevines and walnut trees leafed. Nectarines received treatment for thrips.

VEGETABLES: Recent storms have hampered vegetable planting and harvesting in many areas of California. The broccoli harvest was light to moderate along the central coast. Westside head lettuce harvest started in spite of the rain. Rains slowed the asparagus harvest from the westside and San Joaquin delta areas. Lettuce and cauliflower harvests continued in other areas of California with quality ranging from good to variable. In Florida, the major growing areas received rain. Strong winds hit the southern and eastern coasts. The soil has moderate temperatures and adequate moisture. Harvesting activities reached their peak in the south. Planting and replanting of vegetables continued in the central and northern regions of Florida. Replanting of vegetables lost in the March 13 storm continued in the Southeast. Some producers have found plant availability a problem. Wet conditions caused a 2-week delay in vegetable plantings in New Jersey. The vegetable harvest remained active in western and central Arizona, with broccoli, cauliflower, and lettuce harvested.

PASTURE AND LIVESTOCK: The mild conditions of the previous week reduced livestock stress, decreased supplemental feeding, and eased calving and lambing activities. Reports from Nebraska, Wyoming, and Idaho indicated higher-than-normal calving losses due to earlier cold weather. Hay supplies were short in areas of the Northwest, Michigan, and Wyoming. In some areas of the Southeast and the Ohio Valley pastures are in poor condition due to excessive moisture. Nationally, livestock are in good condition.

State Summaries of Weather and Agriculture

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

ALABAMA: Rainfall 0.30 to 6.35 in. north; 0.27 to 3.37 in. central; 0.41 in. to 1.82 in. south. Temperatures 2° below normal to 4° above north; 1° below normal to 5° above central; 1° below normal to 4° above south. Lows 31 to 45° north; 33 to 46° central; 39° to 47° south. Highs 69 to 77° north; 75 to 79° central; 77 to 80° south.

Primary activities: Harvesting timber; land preparation; planting corn, spring vegetables; applying fertilizer; marketing cattle; land-use planning, management; repairing damage from winter storm; general care of livestock, poultry, catfish.

ARIZONA: Light, scattered showers 20th to 23rd; south. Showers, 24th; north, east. Scattered thunderstorms 26th, 27th, statewide. Temperatures 2 to 7° above normal. Extremes 23°; 80° higher elevations, 38°; 91° deserts.

Cotton field preparations continued, delayed by rain end of week. Planting continued 7%, 10% 1992, 15% avg. Alfalfa condition good. Harvest activities moderate to heavy, all areas except southeastern where activities were light. Weed, insect infestations moderate to heavy; disease light. Small grains jointing 90%, 89% 1992, 93% avg. Heading 33%, 41% 1992, 34% avg. Fields in good condition. Vegetable harvest active. broccoli, broccoflower, cauliflower, cilantro, lettuce, kale, spinach, available western, central areas. Also available west: artichokes, asparagus, bok choy, broccoflower, celery, endive, escarole, savoy. beets, green onions, parsley, radishes, rapini, rutabagas, turnips available, central. Citrus harvest continued central, western areas. Valencia oranges, lemons, grapefruit, tangerines, tangelos available both areas. Tomatoes harvested eastern areas.

ARKANSAS: Mild week, temperatures averaging near normal. Scattered showers first half of week; mostly in northeast region of State. Extremes 28°; 81°. Rainfall none to 2.63 in.

Days suitable for fieldwork 3. Soil moisture supplies adequate to surplus. Wheat condition fair to good. Farmers continued to fertilize wheat with nitrogen. No signs of Rust reported. Corn planted 12%. Some fields dry enough for fieldwork. Fescue continued to improve. Pastures good condition, herbicides were applied in some areas. Livestock good condition. Producers feeding hay, supplies adequate.

CALIFORNIA: An upper low pressure system brought significant rainfall to the State. System moved into the north on 23rd, moved southward with the southern portion receiving rain during the last of the week.

Field activities slowed, north, rain most week. Elsewhere, fieldwork progressed until weekend rain. Small grains growing rapidly, heading many areas. Some fields lodging. Broadleaf herbicides, aphid treatments applied. Cotton planting gained momentum desert areas, just underway San Joaquin Valley. Most growers awaiting higher soil temperatures. Few fields new alfalfa seeded, established fields sprayed weevils. Safflower

planting delayed, wet soils. Early seeded corn emerging, garbanzo beans blooming. Alfalfa, winter forages cut hay, green chopped. Orchard floor work, weed control, fungicide spraying active. Cherries past bloom. Grapevines leafing out; mildew treatment active. Bloom sprays applied to stonefruit, apple orchards. Nectarines treated for thrips. Walnut trees leafing out, producing catkins. New crop citrus buds in popcorn stage. Current Navel oranges two-thirds harvested; some granulation. Valencia orange harvest slow. Lemon picking active in the south coast area. Recent storms hampered vegetable planting, harvesting in many areas Broccoli harvest central coast fairly light to moderate. Harvest San Joaquin Valley, westside, Riverside, desert areas continued. Westside spring head lettuce harvest began in spite of rain. Head, leaf lettuce harvest continued Palo Verde, Coachella valleys, good yield, quality. Head lettuce harvest seasonally declining, Huron area. Romaine lettuce harvest light, variable quality, Salinas-Watsonville area. Asparagus harvest westside, San Joaquin Delta slowed due to rains, expected rebound with warmer weather. Cauliflower harvest light to moderately active, variable quality, Santa Maria, Salinas-Watsonville areas. Planting Fresh market tomatoes under hot caps continued in most areas. Onions, garlic early planted tomatoes are making good progress. Other crops harvested included turnips, processing spinach, carrots, green onions, oriental vegetables. Range, pasture conditions very good. Additional rain fell most areas. Livestock were making good weight gains, ample feed.

COLORADO: Fair weather dominated most of last week. Light showers fell over the eastern plains on the 22nd but amounts were generally under 0.01 in. During midweek, temperatures were well above normal. By the 26th a winter storm reached the State. Clouds increased across the west with a few showers, thunderstorms at lower elevations, snow in the mountains. East remained warm with a few showers, thunderstorms which produced strong gusty winds. By the 27th a cold front moved into the east, ending the warm spell, bringing upslope low clouds, showers throughout the plains. In the mountains snow fell on the 27th to 28th with a few locations receiving heavy snow while at lower elevations rain showers were common. Temperatures 5 to 10° above normal.

Days suitable for fieldwork 3.6. Soil moisture 8% short, 73% adequate, 19% surplus. Spring barley seeded 14%, 22% 1992, 16% avg. Oats seeded 7%, 15% 1992, 14% avg. Spring wheat seeded 2%, 4% 1992, 4% avg. Sugarbeets planted 4%, 2% 1992, 4% avg. Dry onions planted 14%, 25% 1992, 17% avg. Winter wheat condition 3% poor, 12% fair, 65% good, 20% excellent. Cows calved 60%, 65% 1992, 55% avg.; ewes lambed 69%, 65% 1992, 59% avg. Livestock rated mostly good. Pasture, range feed condition fair to good.

FLORIDA: Rain 1 to 3 days north, 1 to 5 days central, south. Totals less than 0.25 in. to over 7.00 in. Temperatures 2° to 4° above normal. Lows: lower 40s Panhandle, lower 50s central, middle 50s interior south. Highs: 80° north, middle 80s central, upper 80s south.

Soil moisture mostly adequate to surplus in Panhandle, northern Peninsula: adequate in central, southern Peninsula. Corn planting, tobacco transplanting active. Preparing to start planting cotton, peanuts. Sugarcane harvest winding down. Citrus groves very good to excellent condition. Moisture adequate to surplus. Ideal growing conditions, abundant new growth, bloom all stages. Early-mid harvest almost complete. Valencia harvest increasing. All grapefruit movement active. Temple, Honey tangerines harvest almost complete. Major vegetable growing areas received rain. South, east coast had strong winds. Temperatures moderate, soil moisture adequate. Harvest activity peaked south. Planting, replanting active central, north. Volume leaders: tomatoes, cabbage, peppers, potatoes, strawberries. Also available: snap beans, carrots, chinese cabbage, celery, sweet corn, cucumbers, eggplant, escarole, romaine lettuce, specialty lettuces, radishes, squash, cherry tomatoes. State's pastures fair to good. Pasture ratings, 55% fair, 45% good. State's cattle herds fair to good condition.

GEORGIA: Rain mostly 1.00 to 2.00 in. except 0.25 to 1.00 in. southwest. Showers lingered into 27th central, north, additional rain generally under 0.33 in. Drier air over State on weekend. Sunshine returned to parts of south 27th, and to most of State 28th. Daytime temperatures 50s north, 60s central, and east and mid to upper 70s southwest 26th. Temperatures on 27th mid to upper 60s north, mid to upper 70s elsewhere by 28th. Minimums generally in 40s, 50s 27th, 28th.

Days suitable for fieldwork 2.6. Soil moisture 33% adequate, 67% surplus. Corn 14% poor, 76% fair, 10% good; 18% planted, 45% 1992, 43% avg.; wet fields continue to slow planting. Tobacco 35% poor, 56% fair, 9% good; 5% transplanted, 17% 1992, 22% avg.; tobacco beds slow recovery, still only poor to fair. Plant availability a problem for some growers. Wheat 11% poor, 62% fair, 27% good; 58% jointing, 80% 1992, 82% avg.; 16% boot, 21% 1992, 32% avg.; 1% headed, 2% 1992; cold damage early varieties central, some more severe than first thought. Other small grains 6% poor, 57% fair, 37% good. Onions 92% fair, 8% good; frequent showers hampering disease control sprays. Watermelons 38% poor, 58% fair, 4% good; 16% planted, 28% 1992, 40% avg.; some farmers lost all greenhouse transplants due to storm damage on 13th. Other vegetables 37% poor, 51% fair, 12% good; transplant availability concern for some growers. Apples 16% fair, 84% good; 1% blooming, 13% 1992, 17% avg. Peaches 3% very poor, 14% poor, 25% fair, 58% good; 79% blooming, 95% 1992, 94% avg. Pasture 13% poor, 42% fair, 43% good, 2% excellent. Cattle, hogs fair to good, mostly good. Activities: Farmers still cleaning up from storm of March 13th to 14th. Wet fields slowing planting, land preparation. Pasture, hay field fertilization slowed many areas due to wet fields.

HAWAII: Weather warm, sunny with variable shower activity. Temperatures low 60 to mid 80s. Rainfall none to 0.50 in.

Sunny weather was favorable for most farming activities. Added showers would be helpful to most plantings since weather was mainly dry. Irrigation remained essential for crop development some areas. Banana, papaya production continued at normal levels.

IDAHO: Temperatures 2 to 10° above normal throughout State. Precipitation fell statewide with Emmett receiving as much as 1.50 in.

Days suitable for fieldwork 1. Soil moisture 4% short, 67% adequate, 29% surplus. Winter wheat mostly good, some snow mold reported. Spring barley planted 2%. Irrigation water supplies 3% poor, 8% fair, 67% good, 22% excellent. Hay, roughage supplies 1% very short, 16% short, 74% adequate, 9% surplus. Activities: Spraying fruit trees, finishing pruning, hilling of potato rows, planting of spring wheat, spring barley in some areas of State, ground preparation for sugarbeets, fertilizing, weed control, equipment repair. Pasture, range 76% of normal. Calving completed 64%. Lambing completed 66%. Livestock mostly good condition. Reports indicated up to 50% loss in newborn calves due to weather conditions, scours.

ILLINOIS: Spring weather got started last week as temperatures averaged 0 to 3° above normal across most of the State. Highs mid 40s; upper 50s. Lows lower 30s; mid 40s. Precipitation 0.30 to 1.80 in.

Farm activities picked up some with better weather conditions as farmers tended livestock, continued planting some oats, spread fertilizer.

INDIANA: Temperatures 1 to 3° above normal in the central, the south, closer to normal in the north. Highs upper 40s to lower 50s in the north to upper 50s to lower 60s in the south. Lows mid 30s in the north to the upper 30s to mid 40s in the south. Precipitation 0.30 to 0.80 in. across much of the State.

Fields are still extremely wet. Eighty-seven percent of the State's topsoil surplus in moisture. Subsoil 67% surplus. Grain hauling increased this past week. The majority of the wheat has been top dressed. Spring calving continues in most areas of the State. Reported problems with calves having to be hand fed. Warm weather should assist in reducing stress in livestock.

IOWA: Temperatures near normal to 4° above normal. Extremes 23°, Spencer, 24th; 70° Lamoni, 28th. Precipitation, trace west to 1.29 in. east; average 0.28 in. Widespread minor to moderate flooding from snow melt. Snowpack water equivalents of just over two inches still remain north-central area.

Farmers are starting to apply dry fertilizer. Livestock are generally in good condition. Calving, farrowing are in progress.

KANSAS: Temperatures mostly above normal, ranging from 2° below normal east to 9° above normal west. Only a trace of precipitation received except in the southeast district which received 0.41 in.

Days suitable for fieldwork 2. Warmer temperatures little precipitation allowed fields to dry out. Farmers able continue harvest sorghum many areas. In most cases, grain surprisingly good quality. State topsoil moisture 1% short, 76% adequate, 23% surplus. Subsurface moisture 74% adequate, 26% surplus. Wheat 90% good to excellent, 9% fair, 1% poor. Warmer temps past week gave wheat growth boost. Wheat progress behind normal. Only 1% of state's wheat acreage jointed compared avg. 10%. Planting oats, spring barley behind normal progress. Oats 20% planted compared avg. 80%. Stockmen beginning to get break from cold, mud. Mild weather past week decreased livestock stress. Some shortages hay because high usage.

KENTUCKY: Highs low to mid 60s; near or slightly above normal, except west (slightly below normal). Lows 40s, 5 to 10° above normal. Rainfall west 0.50 in. or less. Central sections between 0.50 to 0.75 in.; eastern, south central 1.00 to 1.50 in.

Winter wheat green, showing growth. Fields most areas too wet to work. Tobacco bed preparation continued. Livestock feed requirements lessened by return of warmer weather. Soil moisture adequate to surplus.

LOUISIANA: Temperatures 1.1° below to 1.1° above normal. Extremes 26°; 81°. Rainfall 0.24 in. southeast to 1.02 in. east-central.

Days suitable for fieldwork 1.3. Soil moisture 19% adequate, 81% surplus. Corn 30% planted, 49% 1992, 41% avg.; 11% emerged, 25% 1992, 18% avg. Planting extremely slowed due to wet conditions. Rice 7% planted, 15% 1992, 11% avg.; 1% emerged, 9% 1992, 6% avg. Some rice planted in southern parishes. Sorghum 0% planted, 1% 1992, 4% avg. Wheat 12% very poor, 12% poor, 65% fair, 11% good; 16% headed, 20% 1992, 22% avg. Freeze damage apparent. Spring plowing 32% plowed, 34% 1992, 34% avg. Delays from wet conditions continued. Sugarcane 1% poor, 69% fair, 30% good. Herbicide, fertilizer applications were active. Livestock 2% poor, 54% fair, 44% good. Tending of livestock, calves. Pastures 19% very poor, 3% poor, 14% fair, 64% good. Slow growth due to wet conditions. Vegetables 10% very poor, 27% poor, 58% fair, 5% good. Spring planting of vegetables was active.

MARYLAND & DELAWARE: MARYLAND: Precipitation 1.09 in. Temperature 43.4°, normal 47.1°. Extremes 19°; 63°.

Hay supplies adequate. Cutting firewood, feeding hay, caring for livestock. Small grains good condition. Tax preparation. Making plans for spring planting. Tobacco auction active.

DELAWARE: Precipitation 0.51 in. Temperature 43.7°, normal 47.3°. Extremes 26°; 60°.

Hay supplies adequate. Pastures, livestock in mostly excellent condition. Small grains good condition. Tax preparation. Making plans for spring planting.

MICHIGAN: Extremes 5°; 66°. Precipitation none to 0.99 in. across the State. Corn harvested remained at 95%. Winter wheat 3% very poor, 20% poor, 45% fair, 30% good, 2% excellent. Week ended with sunny skies, warm temperatures that reached over 60° by the weekend.

Roads, fields are very muddy in some areas. Livestock were in good condition. Feed supplies remained adequate to short, quality was reported as poor. Major activities included ordering seed, fertilizer, preparing taxes, spreading manure, repairing equipment, getting ready for spring.

MINNESOTA: Temperatures for the week averaged near normal in the south to 7° above normal in the north. Extremes 5°; 63°. Precipitation zero to 0.33 in.; 0.20 to 0.43 in. below normal. Snowfall 1 to 3 in. across the southern third of the State, a trace or less for remaining areas. Snow depth at weekend averaged 3 to 5 in. southeast, northeast; a trace elsewhere.

Spring-like weather moved into the area towards the weekend with most areas of the State losing remaining snowcover. Farmers are looking for continued mild, dry conditions to allow seedbed preparation, seeding of small grains.

MISSISSIPPI: Temperatures 58°, 0.3 above normal. Extremes 30°; 80°. State received near normal rainfall. State average: 1.27 in., 0.07 in. below normal. Soil temperatures 58°.

Days suitable for fieldwork 0.9, 2.2 1992, 2.9 avg. Soil moisture 25% surplus, 75% excessive. Corn 9% planted, 22%

1992, 24 avg.; 2% emerged, 10% 1992, 11% avg. Watermelons 4% planted, 10% 1992, 21% avg. Wheat 50% jointing, 69% 1992, 68% avg.; 1% heading, 4% 1992, 6% avg.; 4% poor, 55% fair, 41% good. Hay supply 6% very short 23% short, 71% adequate. Feed grain 8% short, 92% adequate. Livestock 1% poor, 37% fair, 62% good. Pasture 85% of normal. Activities: Land preparation, shopwork.

MISSOURI: Temperatures 3° below normal. Precipitation 0.50 in., 0.10 in. northwestern district to 1.23 in. southeast.

Damp weather, muddy fields delaying spring fieldwork. Fertilizing, early tillage behind normal all areas.

MONTANA: Temperatures 11 to 24° above normal. Precipitation recorded in most areas, largest amounts north-central with up to 0.56 in., northeast up to 0.69 in.

Winter wheat breaking dormancy as temperatures warming. Most livestock receiving supplemental feed. Calving, lambing progressing under mild weather conditions.

NEBRASKA: Temperatures in the east, central averaged near normal while the northwest, north central, southwest 7 to 15° above normal. Precipitation 0.10 in. east to 0.50 in. northwest.

Too wet for most fieldwork. Topsoil moisture 40% adequate, 60% surplus. Subsoil moisture 77% adequate, 23% surplus. Wheat condition 17% fair, 67% good, 16% excellent. Pasture, range 96% of normal. Spring calving 56% complete with above average losses early, weather related.

NEVADA: Week began with high pressure dominating. Warm temperatures accelerated melting snow pack, produced minor flooding northern areas. By 23rd low pressure reached the State, lingered for the rest of week. Widely scattered thunderstorms occurred in east, south. Temperatures 5 to 10° above normal.

Fieldwork making progress all areas. Winter grains showing growth. Livestock generally good condition. Main farm/ranch activities: Irrigation maintenance, planting preparation, care, feeding of livestock.

NEW ENGLAND: Precipitation 1.24 to 1.77 in. Connecticut; 0.52 to 1.54 in. Massachusetts, Rhode Island; 0.09 to 1.03 in. elsewhere north. Temperatures mid 30s to low 40s. Maximum temperatures low 60s to low 70s. Minimum temperatures minus 11 to mid 20s north; single digits to low 30s south.

Major farm activities: General repairs, maintenance, tending livestock, moving crops from storage. Maple sugaring behind last year. Though warmer temperatures were observed, sap not flowing due to amount of snow still covering ground.

NEW JERSEY: Temperatures slightly below normal. Extremes 16°; 66°. Rainfall 1.60 in. north, 2.10 in. central; 1.72 in. south. Heaviest 24 hour total 1.70 in. on 28th, 29th. Estimated soil moisture, in percent field capacity, averaged 100% north, 99% central, 99% south. Four inch soil temperatures averaged 34° north, 38° central, 41° south.

Limited planting of head lettuce in some areas of the south. Planting of other early vegetables at least 14 days behind due to wet ground conditions. Ground preparation, also delayed at least 2 weeks.

NEW MEXICO: Unseasonably warm temperatures continued throughout the week across the State. Week finished a little

cooler as a storm system brought cloudiness and widespread rain and snow showers. Temperatures 4 to 10° above normal. Northern mountains, sections of the northeastern plains had the highest rain, snow amounts averaging near 0.50 in. precipitation with a few areas in the northeast receiving over 1.00 in.

Days suitable for fieldwork 6.7. Soil moisture 45% short, 55% adequate. Crop conditions: Alfalfa 2% poor, 39% fair, 59% good. Irrigated wheat 19% fair, 81% good. Dryland wheat 56% poor, 44% good with additional moisture needed. Onions 14% fair, 86% good with most transplants in. Lettuce 10% fair, 90% good. Chile planting active, along with land preparation for cotton, corn. Cattle, sheep condition fair to excellent; supplemental feeding still active. Range, pasture 82% of normal.

NEW YORK: Weather data not available.

Major activities: Caring for livestock, making maple syrup, maintenance work, cutting firewood. Warmer days, nights not good for maple sap flows. Season cut short in many areas. Producers boiling what sap is available. Snow melt has caused flooding in some areas.

NORTH CAROLINA: Temperatures 1 to 5° above normal. Precipitation 8.05 in. at Lake Toxaway to 0.40 in. at Cape Hatteras.

Days suitable for fieldwork 2.4. Soil moisture 29% adequate, 71% surplus. Crop condition: Pasture 3% very poor, 11% poor, 49% fair, 37% good. Winter Wheat 4% poor, 38% fair, 57% good, 1% excellent. Oats 5% poor, 36% fair, 57% good, 2% excellent. Barley 4% poor, 42% fair, 52% good, 2% excellent. Rye 4% poor, 38% fair, 56% good, 2% excellent. Tobacco plant beds 7% poor, 40% fair, 48% good, 5% excellent. Irish potatoes 6% very poor, 6% poor, 57% fair, 31% good. Peaches 15% poor, 39% fair, 46% good. Truck crops 5% very poor, 11% poor, 56% fair, 28% good. Hay, roughage supplies 4% very short, 19% short, 75% adequate, 2% surplus. Tobacco plant bed supply 19% short, 81% adequate. Feed grain supplies 2% short, 98% adequate. Irish potatoes planted 58%, 81% 1992, 71% avg. Cabbage transplanted 53%, 75% 1992, 59% avg. Major activities: Tobacco plant bed maintenance, land preparation for planting. Other activities: Planting potatoes, cabbage; topdressing small grains; tending livestock; general farm maintenance.

NORTH DAKOTA: No precipitation across the State with temperatures above normal in the west, near normal in the east. Statewide temperatures 2° below normal northeast to 14° above normal southwest. Extremes -10° northeast; 80° west central.

Topsoil 7% short, 79% adequate, 14% surplus. Subsoil 5% very short, 45% short, 47% adequate, 3% surplus. Expected starting date for fieldwork April 16th, average April 14th. Winter wheat condition 1% poor, 45% fair, 54% good. Livestock condition was mostly good, nearly all were receiving supplemental feed. Calving was 43% complete, lambing 60%, shearing 71%. Pasture condition was 82% of normal with 65% open for grazing, 99% dormant. Hay, forage supplies were 10% short, 88% adequate, 2% surplus. Secondary, county roads mostly open with 52% muddy, 48% dry.

OHIO: More spring-like weather arrived during the week with temperatures pushing to above normal levels. Sunshine proved lacking as clouds were prevalent, limiting drying rates, keeping

fields soft. Precipitation in the form of rain, showers was seasonable in nature. Temperatures averaged near 40° in the north to the low 50s in the south, 1 to 3° above normal in the north, 3 to 6° greater than usual in the south. Temperatures averaged slightly below normal along Lake Erie. Mean daytime highs mid 40s to upper 50s with average minimums from the mid 30s to low 40s. Precipitation was greatest in the north, east, least in the southwest during the week. Totals ranged from near 1.00 in. east to 0.50 in. southwest. Mansfield was the exception as rainfall there totaled 1.82 in. Totals for the remainder of eastern areas were close to normal with 0.30 in. less than normal in the south, west.

Farmers are anxiously waiting for fields to dry out. Water is standing in wheat fields, pastures are in poor condition due to excess moisture, trampling by livestock.

OKLAHOMA: Weather information not available.

Days suitable for fieldwork 3.8. Topsoil 39% adequate, 61% surplus. Subsoil 1% short, 99% adequate. Wheat 29% fair, 71% good; 35% jointing, 78% 1992, 32% avg. Oats 11% jointing, 51% 1992, 20% avg. Barley 15% jointing, 40% 1992, 21% avg. Corn 37% seedbed prepared, 75% 1992, 72% avg.; 9% planted, 5% 1992, 7% avg. Sorghum 8% seedbed prepared, 32% 1992, 24% avg. Soybeans 14% seedbed prepared, 37% 1992, 23% avg. Peanuts 41% seedbed prepared, 34% 1992, 24% avg. Cotton 51% seedbed prepared, 29% 1992, 31% avg. Pastures 91% of normal. Livestock 47% fair, 53% good. Prices for feeder cattle, calves steady to \$2.00 per cwt. higher.

OREGON: Temperatures slightly above normal, 0 to 4° across the State. Rainfall amounts north, central coast 2.25 to 6.50 in.; Willamette Valley 1.25 to 1.60 in., southwestern valleys 0.40 to 0.80 in., elsewhere under 0.50 in.

Soil moisture 74% adequate, 26% surplus. Wheat, grass seed looks excellent, fertilizers, herbicides being applied, mint fields showing growth; western areas. Muddy, cool conditions delaying chemical applications, delayed spring wheat, barley plantings, east. Strawberries leafing out, some cultivation, Willamette Valley. Fruit trees in bloom or near bloom stage, statewide. Hazelnuts breaking buds, blight sprays applied. Producers applying fertilizers to fruit trees. First scab sprays applied to apple trees. Columbia Basin pea seeding well behind schedule, wet cool conditions. Livestock good to fair. Calving losses above normal, muddy cool conditions. Pasture regrowth slowed, range cattle turn-out delayed, hay supply deleted, eastern areas. Western pasture regrowth excellent. Range, pasture condition 90% of normal.

PENNSYLVANIA: Above normal temperatures, precipitation. Temperature 45°, 8° above normal. Extremes: 14°; 70°. Precipitation 0.91 in., 0.10 in. above normal.

Activities: Hauling manure; maintaining machinery; fixing fence; caring for livestock.

PUERTO RICO: Island rainfall 0.62 in. was 0.03 in. below normal. Highest rainfall 4.19 in. at Pico Del Este Luquillo, 2.41 in. at Trujillo Alto 2SSW. Highest 24 hour total 1.78 in. at Trujillo Alto 2SSW. Island temperatures 77° on the Coasts, 70 to 72° in the Interior with mean station temperature 80.2° at Guayama to 61.7° at Pico Del Este Luquillo. Extremes 51°; 92°.

SOUTH CAROLINA: Temperatures across the State 1 to 3° below normal. Average precipitation 2.50 in.

Activities: Land preparation, corn planting slowed by rain; light cold damage to early planted wheat, early variety peaches; some tobacco plant damage from cold temperatures, covers blowing off; pastures average; livestock condition fair to good.

SOUTH DAKOTA: Temperatures generally normal to 5° above normal in the east, 10 to 15° above normal elsewhere. Extremes 3°; 86°. Precipitation 0.25 to 0.75 in. in the southeast, east central. Most of the northwest, north central was dry, while the remainder of the southwest, central, south central received less than a quarter inch. Precipitation for the year is generally a half to one inch below normal across the most of the State.

Most of the snowcover across the State has melted. Some areas were experiencing wet, muddy conditions. Farm activities included: Monitoring calving, lambing, livestock care, preparing equipment for planting, routine chores.

TENNESSEE: Temperatures between normal to 5° above normal. Representative extremes 77° Memphis on the 28th to 34° Dyersburg on the 24th. Precipitation was well above normal with the middle, east receiving the heaviest amounts. Rainfall exceeded 3.00 in. Nashville, Crossville, Chattanooga. Rainfall was below normal only in the southwest where Memphis received 0.74 in., about 0.50 in. below normal.

Wheat mostly good condition. Main activities included: Preparation for row crop planting, routine livestock chores.

TEXAS: First week of spring brought much warmer temperatures, scattered showers. Most areas received light showers, but in Hill Country, Central, South Texas amounts were varied, with severe thundershowers, hail, some localized flooding. Most field activities delayed by weather, putting producers further behind schedule. Some areas Plains, Trans-Pecos needed more rainfall to assist with planting activities. Ranges, pastures continued green, weeds becoming problem.

Crops: Corn planting continued limited basis most places, hampered by wet weather. Planted fields Blacklands slow to emerge due cool wet soils. Sorghum planting delayed inclement weather Blacklands, Central Texas. Some replanting fields along Upper Coast. Emergence early planted fields stowed cool temperatures. Cotton planting began Central Texas, conditions allowing. Rio Grande Valley, several fields damaged previous weeks storms were replanted. Land preparation planting continued Plains. Rice planting delayed all areas by wet conditions. Small grains responding well warmer temperatures, sunshine. High Plains, Russian wheat aphid populations growing. Rust only slight problem Hill Country, Blacklands. Statewide wheat condition 76% normal, 83% 1992.

Commercial Vegetables: Rio Grande Valley, carrots, onions, cabbage harvested. High Plains, some onions, tomatoes planted. East Texas, some onions, greens planted. Several areas still too wet planting activities. Trans-Pecos, onion planting continued. Chile pepper planting underway. Peaches blooming, setting fruit most areas State. Damage from earlier freeze mild, moderate most areas, but several trees seemed escape little, no damage.

Range and Livestock: Supplemental feeding continued taper off. Hay supplies used up several areas, but pastures turning green, providing forage grazing. Most cattle pulled off small grain pastures. Lice infestations decreasing. South Texas, stock tank levels low, additional rainfall would be beneficial. Overall livestock condition remained fair, good.

UTAH: Temperature maximums 10° above normal, minimums 8° above normal. Precipitation was light except for north central, south central, Dixie divisions, where it was moderate.

Major farm, ranch activities were machinery repair, cleaning corrals, preparing for spring fieldwork, fence repair.

VIRGINIA: Temperatures below normal in the north, east; above normal southwest. Near normal temperatures elsewhere. Extremes 21°; 72°. Precipitation above normal except near normal southeast. Rainfall 4.08 in. at Philpot Dam to 0.53 in. at Norfolk.

Days suitable for fieldwork 0.6. Topsoil 28% adequate, 72% surplus. Pasture 6% poor, 92% fair, 2% good. Alfalfa 96% fair, 4% good. Wheat 78% fair, 22% good. Barley 73% fair, 27% good. Peach 75% fair, 25% good. Apple 50% fair, 25% good, 25% excellent. Tobacco plantbed 17% very poor, 37% poor, 46% fair. Tobacco plantbeds 72% seeded. Tobacco plantbed sowing, topdressing, land preparation at a standstill due to extremely wet field conditions. Some cattle losses due to weather. Maple syrup production nearing completion with average yields.

WASHINGTON: Temperatures 3 to 6° above normal west; 6 to 11° above normal east. Precipitation none to 2.34 in. west; 0.01 to 1.28 in. east.

Days suitable for fieldwork 4.3. Soil moisture 22% short, 57% adequate, 21% surplus. Hay, other roughage 18% very short, 50% short, 32% adequate. Range, pasture 23% very poor, 40% poor, 17% fair, 20% good. Winter wheat dryland 20% fair, 80% good; irrigated 100% good. Barley dryland 30% fair, 70% good; irrigated 5% fair, 95% good. Warm weather prevailed. Pea, potato, onion planting progressed. Dormant insecticides applied to orchards; pruning chores were nearly complete. Winter wheat mostly good, appears to have survived the harsh winter better than expected. Ranges were finally greening up east of the Cascades as hay supplies remain tight. Spring calving, lambing continued.

WEST VIRGINIA: Temperature 49°. Extremes 27°; 77°. Precipitation 1.70 in.

Hay feed supplies adequate. Other feed supplies adequate. Cattle good. Sheep good. Wheat condition good. Activities: General maintenance, feeding livestock, calving, lambing, bookkeeping.

WISCONSIN: Temperature 37°. Extremes 2°; 64°. Snow fell across the southern third on the 22nd. A few cities close to the Illinois, Iowa borders received heavy snowfall (6 to 12 in.). Light snow, rain in the central areas on the 22nd, 23rd. In the north, there was sunshine, pleasant temperatures all week, which allowed snow to melt. Fog was very common at the end of the week in the southern, central districts.

Fields are very wet because of the melting snow and precipitation received during the week. There will be very little fieldwork until the frost is out of the ground, the ground dries up.

WYOMING: Temperatures were well above normal with some areas as much as 12 to 17° above normal. Most of the State was dry, except the northwest, far northeast, and east central areas, which had near normal to above normal precipitation.

1993 Winter wheat crop fair to good. Supplemental feeding continuing. Hay supplies are short in several regions. Activities include feeding, caring for livestock, preparing machinery for spring planting. Producers are calving, lambing, shearing. Some farm flocks in the southeast are already done lambing. Higher than normal calving, lambing losses reported in some areas.

International Weather and Crop Summary HIGHLIGHTS

March 21 - 27, 1993

FSU-WESTERN: Unseasonably warm weather continued to erode snow cover earlier than usual in the north. Early-season fieldwork began in the south.

EUROPE: Beneficial rain helped winter crops from Italy's Po Valley to Romania. Dryness persisted in Bulgaria.

NORTHWESTERN AFRICA: Unfavorably warm, dry weather in Morocco and western Algeria caused further deterioration in the condition of winter grains.

SOUTH AFRICA: Scattered rain improved local winter wheat planting conditions.

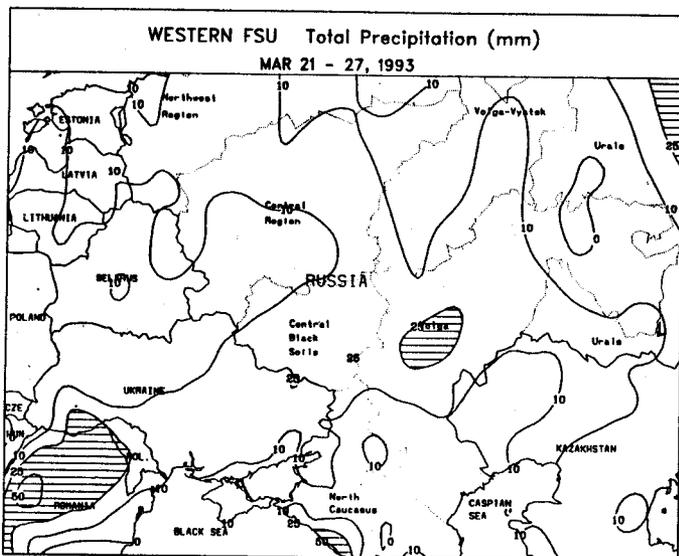
SOUTH ASIA: Rain hampered some winter crop harvests but improved irrigation for upcoming cotton and rice planting.

SOUTHEAST ASIA: Rainfall tapered off over Indochina but increased over Indonesia, favoring second-season rice.

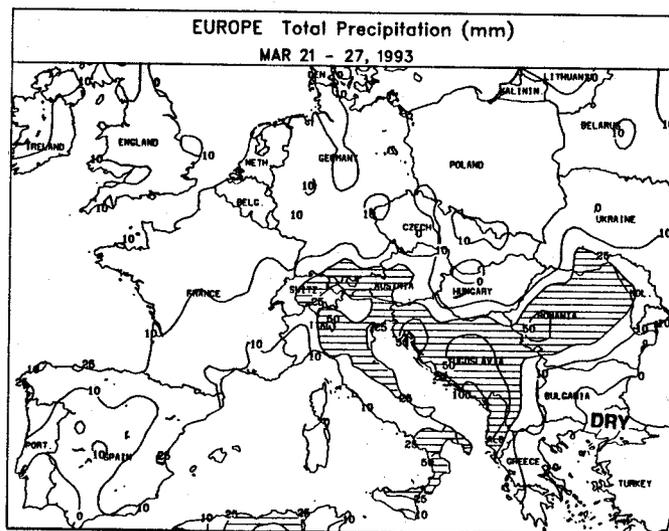
EASTERN ASIA: Frequent showers favored reservoirs across the lower Yangtze Valley.

AUSTRALIA: Summer crop harvesting progressed across eastern Australia with only minor delays.

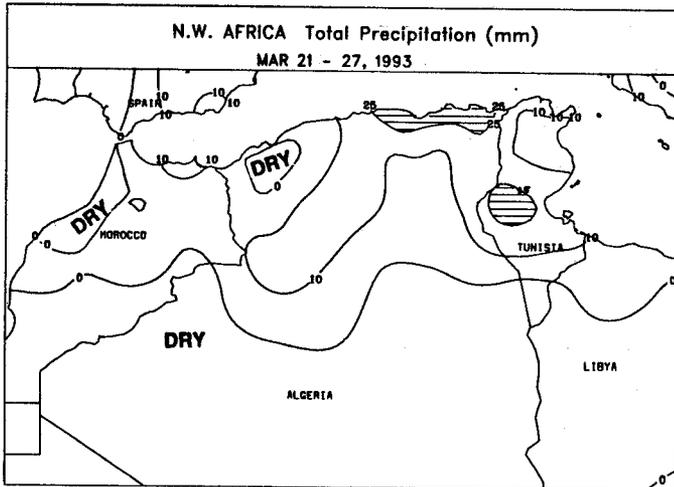
SOUTH AMERICA: Dry, warm weather favored summer crop harvesting and maturation in Argentina. Rains delayed harvesting across southern Brazil.



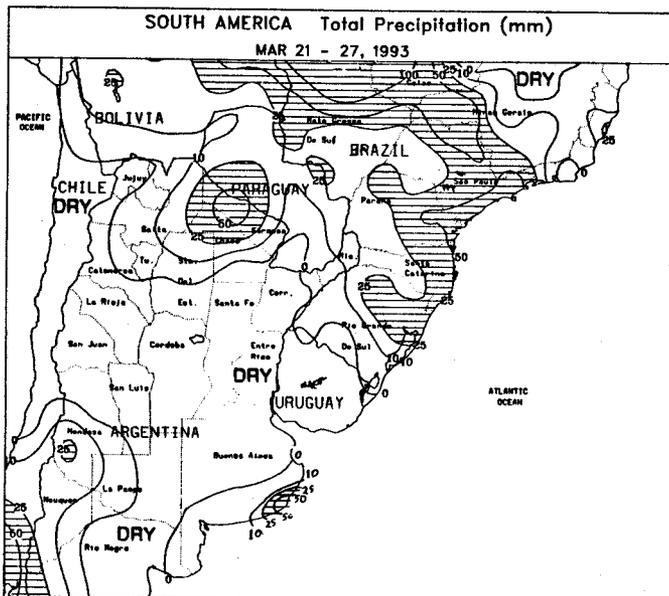
FSU-WESTERN: The second consecutive week of unseasonably warm weather continued to erode snow cover. The snow cover boundary retreated ahead of usual dates in Northwest Region, southern Central Region, northern Black Soils Region, and middle Volga Valley. The combination of mild and dry weather favored fieldwork in preparation for spring grain planting in southern Ukraine and North Caucasus. Some winter grains may have begun slipping out of dormancy in western and southern Ukraine and North Caucasus, where weekly average temperatures ranged from 5 to 10 degrees Celsius (C). Precipitation was light (around 10 mm) with greatest amounts of moisture (25-34 mm) falling over the middle Volga Valley, southwestern Ukraine, and areas in North Caucasus adjacent to the Black Sea Coast.



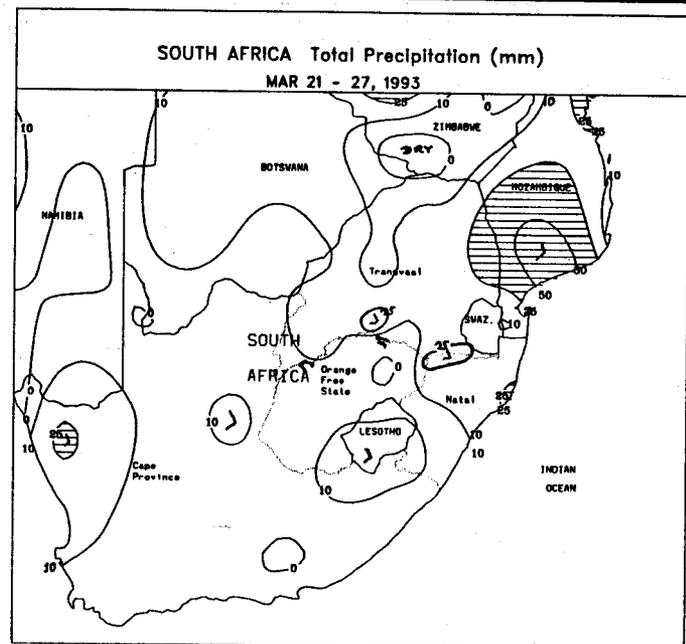
EUROPE: Stormy weather increased over the Mediterranean region, with timely rain (20-80 mm) for winter crops from Italy's Po Valley to Romania. The moisture also improved spring planting prospects. However, dry and warm weather continued over Bulgaria and Greece, where autumn and winter rainfall has been below average. Average temperatures ranged from 4 to 8 degrees C above normal, further reducing topsoil moisture. Rainfall was highly variable over the moisture-deficient Iberian Peninsula. Dry weather prevailed over southwestern Spain, while 10-32 mm of much-needed rain dampened topsoils across northern and eastern portions of the country. Similar rainfall (10-23 mm) in southwestern France moistened topsoils for corn planting, which begins in April. Light showers (mostly less than 10 mm) and seasonable temperatures (averaging 4-8 degrees C) prevailed across northern crop areas. Winter crops are beginning to break the winter dormant state in the west, with average high temperatures of 10-12 degrees C in France, Belgium, and southern England. However, colder weather dropped minimum temperatures below freezing late in the week.



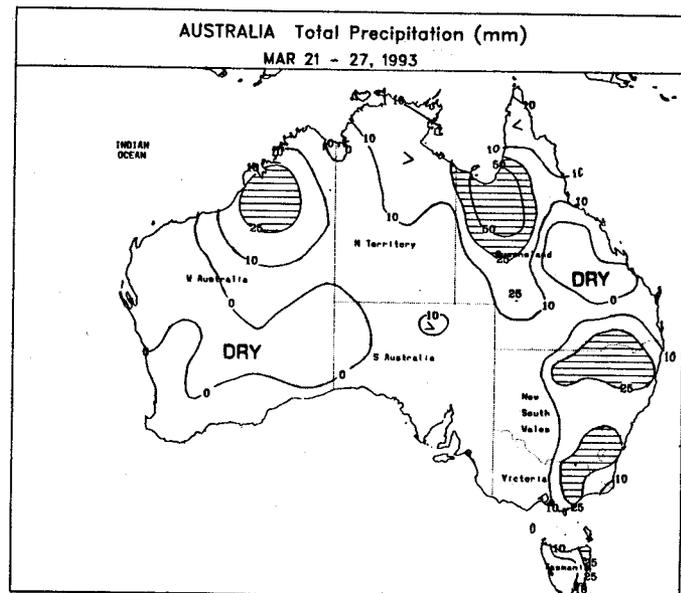
NORTHWESTERN AFRICA: Winter grains over the region were in or nearing the heading stage. Unfavorably warm, dry weather covered winter grains in Morocco and western Algeria, causing further deterioration in crop condition. Average temperatures in these areas were 2-5 degrees C above normal with extreme maximum temperatures ranging from 27 to 33 degrees C. Further east, timely showers (10-25 mm, with local amounts in excess of 30 mm) benefited winter grains in central and eastern Algeria and Tunisia. Sub-freezing temperatures (-1 to -3 degrees C) on March 27-28 were confined to interior crop areas of Algeria and Tunisia, where most winter grains were in the jointing stage and not far enough along in development to cause significant damage.



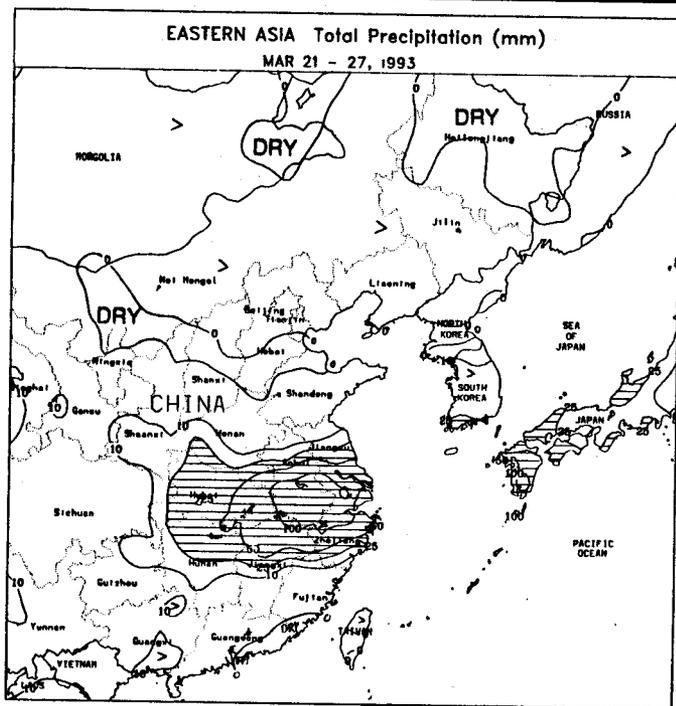
SOUTH AMERICA: Drier, warmer weather prevailed across most of Argentina, favoring corn, sorghum, and sunflowerseed harvesting. In central Argentina, temperatures averaged 2-6 degrees C above normal with maximum temperatures ranging from 33 to 35 degrees C. After previous beneficial rains, the dryness and warmth aided maturing main-season soybeans, but increased crop water use for pod-filling second-season soybeans. Isolated heavy rain (25-50 mm) still plagued the northern cotton areas, but warm temperatures (1-2 degrees C above normal) aided cotton maturation and harvesting. Across southern Brazil, moderate to heavy rain (20-60 mm, with isolated amounts greater than 100 mm) hampered soybean and corn harvesting throughout most crop regions. While the harvest delays are not yet significant, continued heavy rains will cause quality problems. Temperatures averaged near normal across southern Brazil.



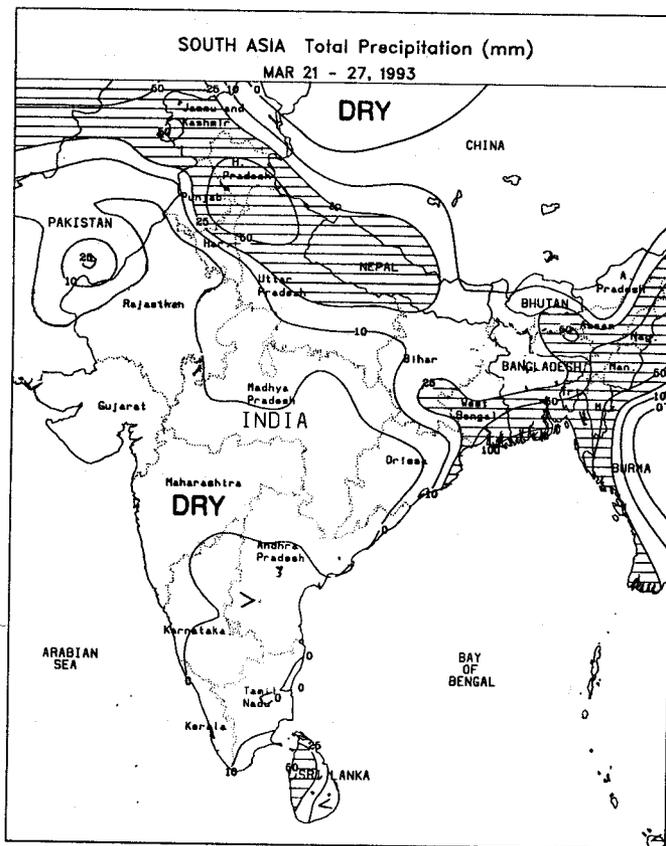
SOUTH AFRICA: Scattered, mostly light rain (1-10 mm, with a few locations exceeding 25 mm) fell across the country. The showers boosted topsoil moisture for winter wheat planting in Transvaal and Natal, but missed many locations in Orange Free State and southern Cape Province. The rain came too late for the region's mostly filling to maturing corn. Dry weather dominated Natal's sugarcane regions, which have suffered from drought for most of the season.



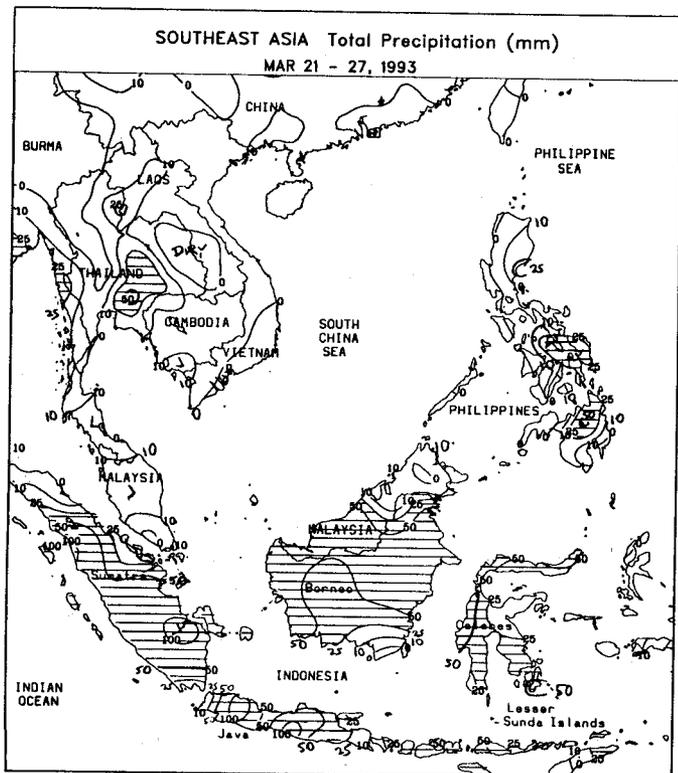
AUSTRALIA: Light to moderate rain (10-40 mm) slowed summer crop harvesting in New South Wales and extreme southern Queensland. Dry weather prevailed across the remainder of southern Queensland, favoring cotton and sorghum harvesting. Light rain (less than 10 mm) fell across the northeastern Queensland sugarcane region, continuing a below-normal rainfall trend since mid-February. Temperatures averaged slightly above normal across the eastern summer crop region.



EASTERN ASIA: Frequent showers (25-75 mm) fell across the lower Yangtze Valley (from Zhejiang and southern Jiangsu westward to Hubei and Hunan), favoring reservoirs and rainfed winter grains. Heavier showers (100-140 mm) were reported in Zhejiang, southern Anhui, and Jiangsu, possibly causing flooding. Mostly dry weather prevailed across the North China Plain, where winter wheat is vegetative. Temperatures averaged 2-4 degrees C above normal across north-central China (Nei Mongol, Shaanxi, and Gansu) and Manchuria, prompting spring wheat planting. In Manchuria, spring wheat is mostly rainfed, while across north-central China, spring wheat is almost entirely irrigated. Temperatures were near normal across the Yangtze Valley and 2-4 degrees C above normal across southern China.



SOUTH ASIA: Unseasonable moderate to heavy rain (10-25 mm, with local totals exceeding 50 mm) swept across winter grain and oilseed areas of Pakistan and northern India. While the rain in the northwest boosted irrigation levels for cotton planting, winter crop harvests were hampered in Uttar Pradesh and Bihar. Hail damage to immature winter wheat was reported in India's Punjab state. Moderate to heavy rain (25-107 mm) over eastern India and Bangladesh increased irrigation for rice planting, although some crops, notably Bangladesh's Boro rice crop, are being harvested. Unlike northwestern India and Pakistan, rainfall of this magnitude is not unusual this time of year in Bangladesh and India's eastern states. In contrast, hot, dry weather persisted over rice areas of southeastern India, stressing immature crops and maintaining high moisture demands. However, harvests are likely underway in Andhra Pradesh, which experienced the highest temperatures (highs from 38 to 41 degrees C).



SOUTHEAST ASIA: Rainfall decreased over Indochina, with moderate showers (10-34 mm, with isolated reports exceeding 70 mm) concentrated over southwestern Thailand. Seasonably hot weather (highs averaging in the mid to upper 30's C) returned to crop areas north of Bangkok, limiting pre-planting fieldwork. The drier weather extended southward along the Malay Peninsula, with unseasonably light rain (1-18 mm) covering western Malaysia's rice and oil palm areas. However, heavy showers (25-100 mm or more) covered Indonesia, boosting irrigation reserves for secondary rice. In the Philippines, rainfall continued to be below normal, although moderate rain (25-35 mm) brought local relief to the east-central islands.

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(Continued from front cover)

Tennessee Valley to the Middle Atlantic region, and a late-season snowfall in New England. On Tuesday, widespread flash flooding hit the central and southern Appalachians and the Tennessee Valley. Rainfall totaled 4.14 inches in Huntsville, AL. By midweek, New England was in the midst of a snowstorm, while the northern High Plains enjoyed record warmth. The storm dropped 8.6 inches of snow in Boston, MA, to propel their monthly total to a March-record 38.9 inches. Farther west, more than 3 dozen daily record highs were established. Broadus, MT, soared to 80°F on Wednesday, and Rapid City, SD, reached 82°F on Friday. But seasonably cool weather returned to the northern Plains by Saturday as the leading edge of a Pacific storm arrived. Prior to its arrival in the High Plains, the storm left its mark on California and the Southwest in the form of heavy precipitation. Mountain precipitation totals surpassed 1 inch, with specific totals of 4.81 inches on Mt. Wilson, CA, and 1.20 inches in both Globe, AZ, and Alta, UT. Snowfall included 4 inches atop Mt. Laguna, CA, and 5 inches in Flagstaff, AZ. Weekly snowfall totaled 39 inches at Sierra Ski Ranch, CA. By Saturday, precipitation pressed into the central Rockies and northern Plains, while warmth slid into New England. A high of 66°F on Saturday in Caribou, ME, helped reduce their snow cover to 22 inches, down from 54 inches 1 week ago.

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