

# 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

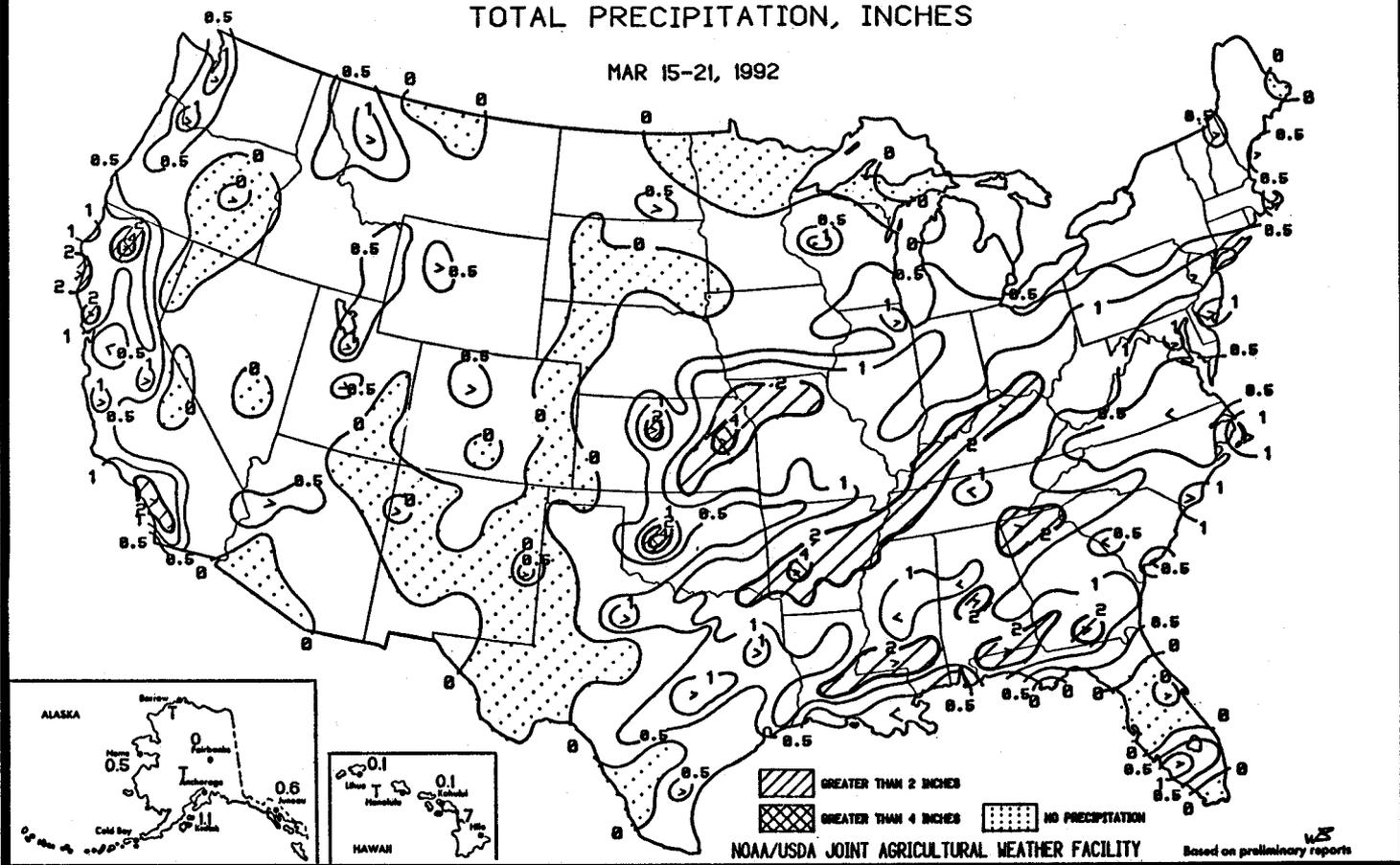
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March 24, 1992

## TOTAL PRECIPITATION, INCHES

MAR 15-21, 1992



## HIGHLIGHTS

March 15 - 21, 1992

Unseasonable cold, accompanied by rain and snow, cloaked the East. Warm, generally dry weather prevailed from the High Plains westward, except in California, where two storms produced locally heavy rainfall. Early in the week, sub-freezing morning lows were noted as far south as Tuscaloosa, AL (29°F), and Jacksonville, FL (31°F). Farther north, Worcester, MA (6°F), and Youngstown, OH (8°F) were among the 15 Northeastern stations reporting daily record lows. Watertown, NY, reached -17°F. In contrast, a dozen locations in the northern Plains achieved daily record warmth, including Miles City, MT (72°F) and Williston, ND (65°F). Heavy rain moved into northern California, with amounts topping 4 inches in a few high elevation sites north of Redding. On Tuesday, strong thunderstorms developed in the east-central Plains and rumbled eastward. Rainfall topped 2 inches in eastern Kansas and northern Missouri, and from Arkansas to southern Ohio. As the storms progressed across the Southeast, they unleashed downpours and spawned a half dozen tornadoes from Mississippi to North Carolina.

Farther north and west, up to 8 inches of snow blanketed the northern Rockies and South Dakota's Black Hills. After midweek, snow developed in the Northeast, with accumulations nearing 1 foot in northern New Jersey. On Friday, heavy rain arrived in southern California. Downtown Los Angeles absorbed more than 3 inches of rain. At week's end, snow spread quickly into the Rockies and the Great Lakes States, while much colder air poured southward through the Plains. Late-week snowfall totals included 13 inches in Stillwater, MN, and 9 inches in Chicago, IL.

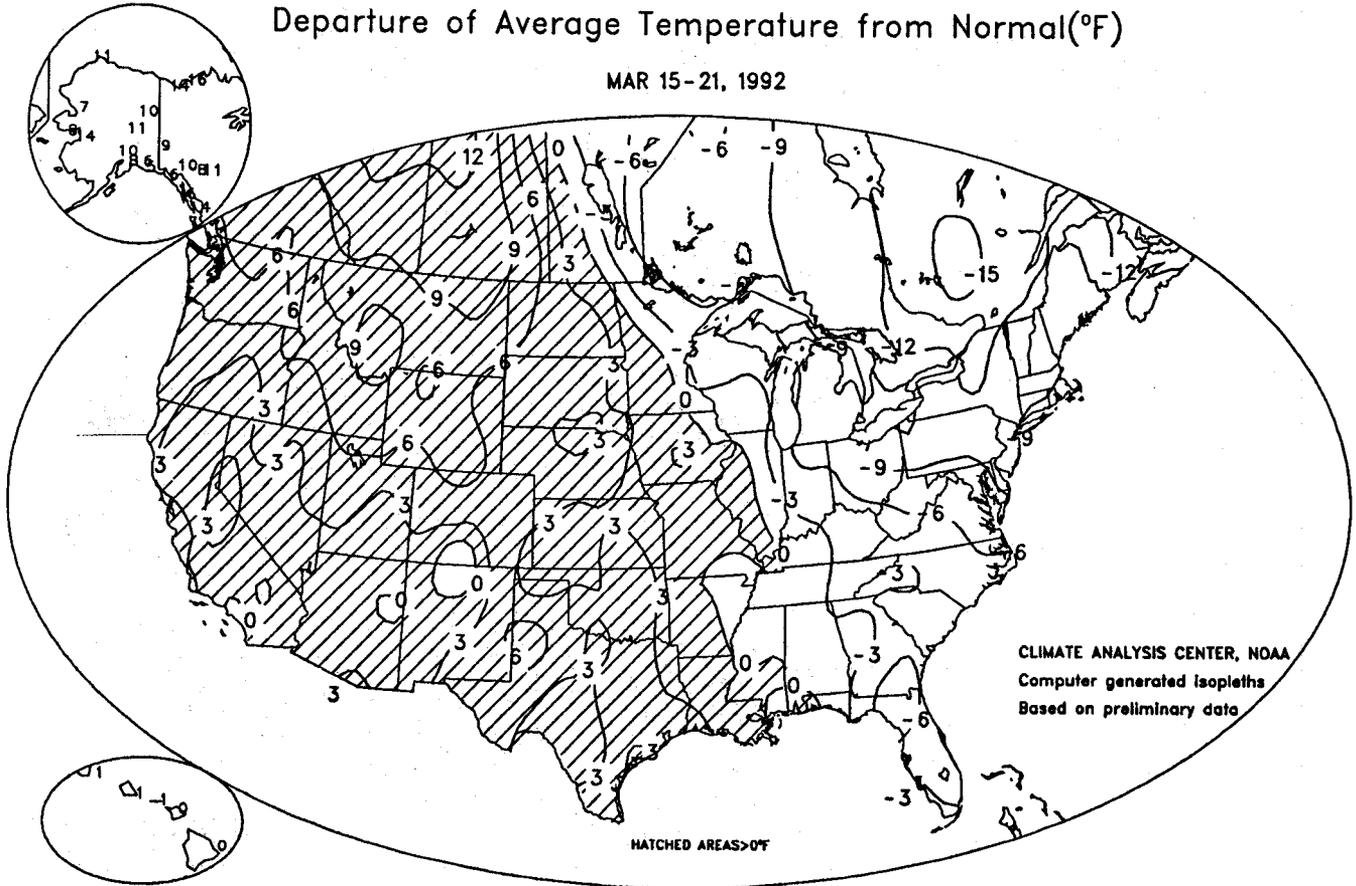
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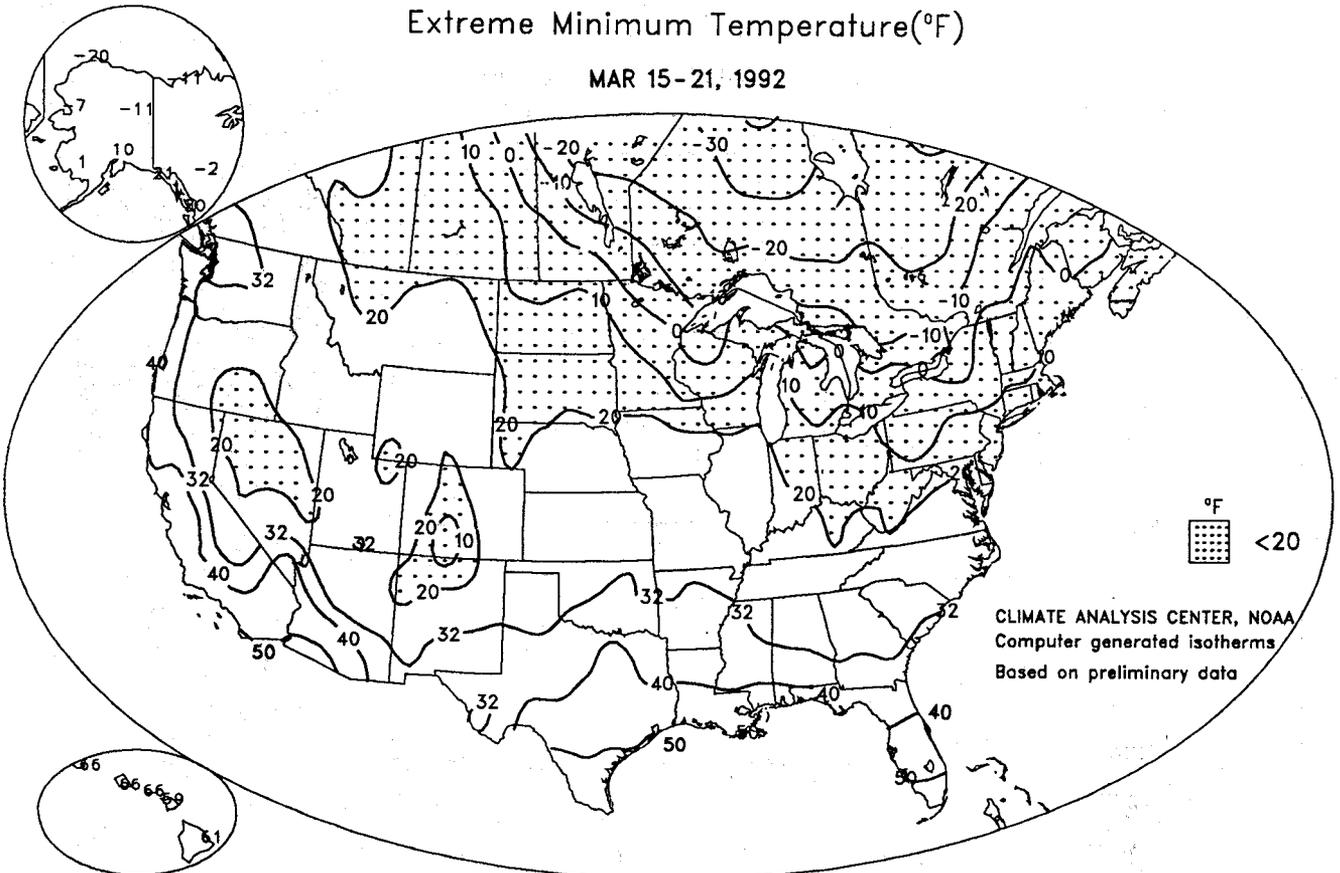
### Departure of Average Temperature from Normal(°F)

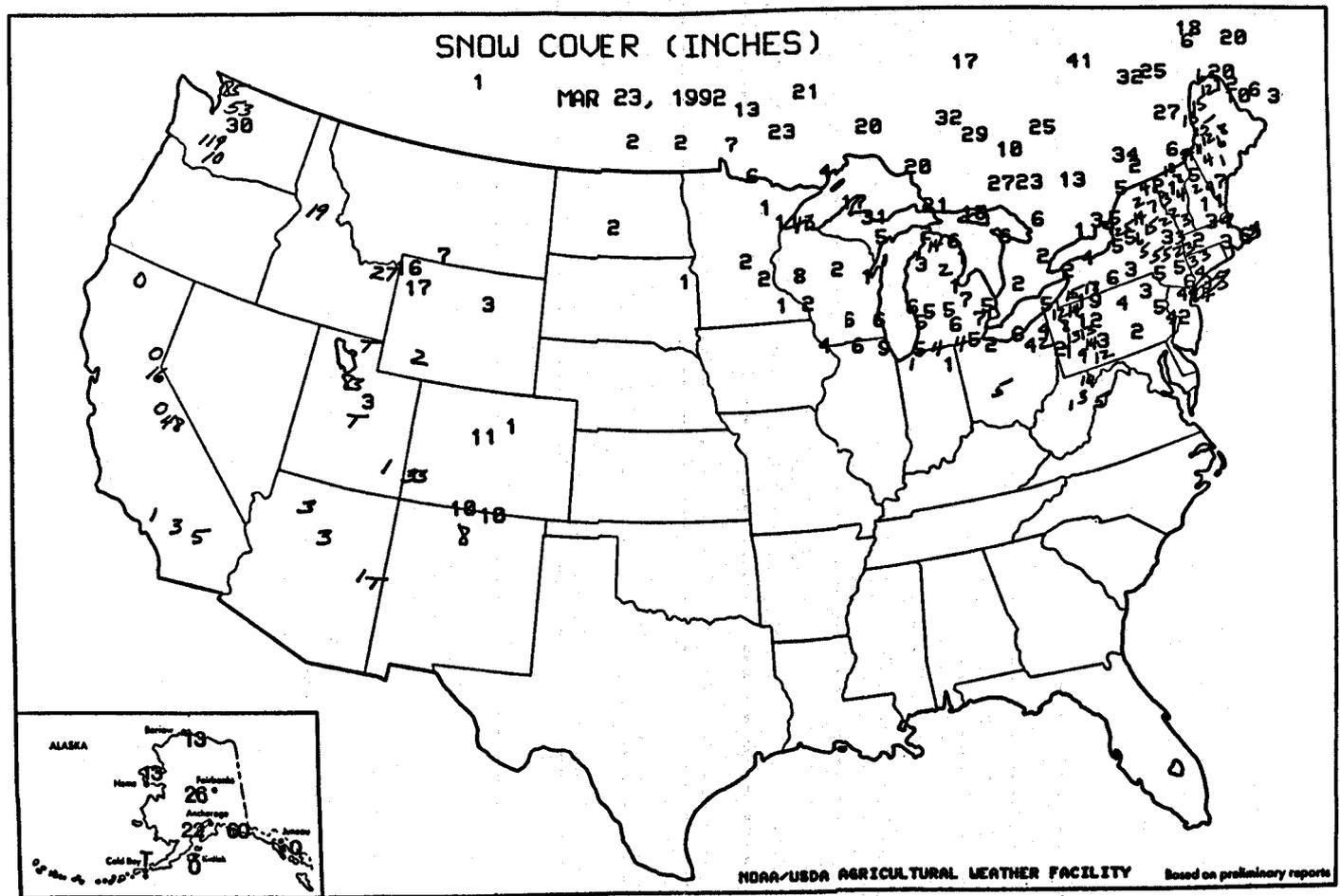
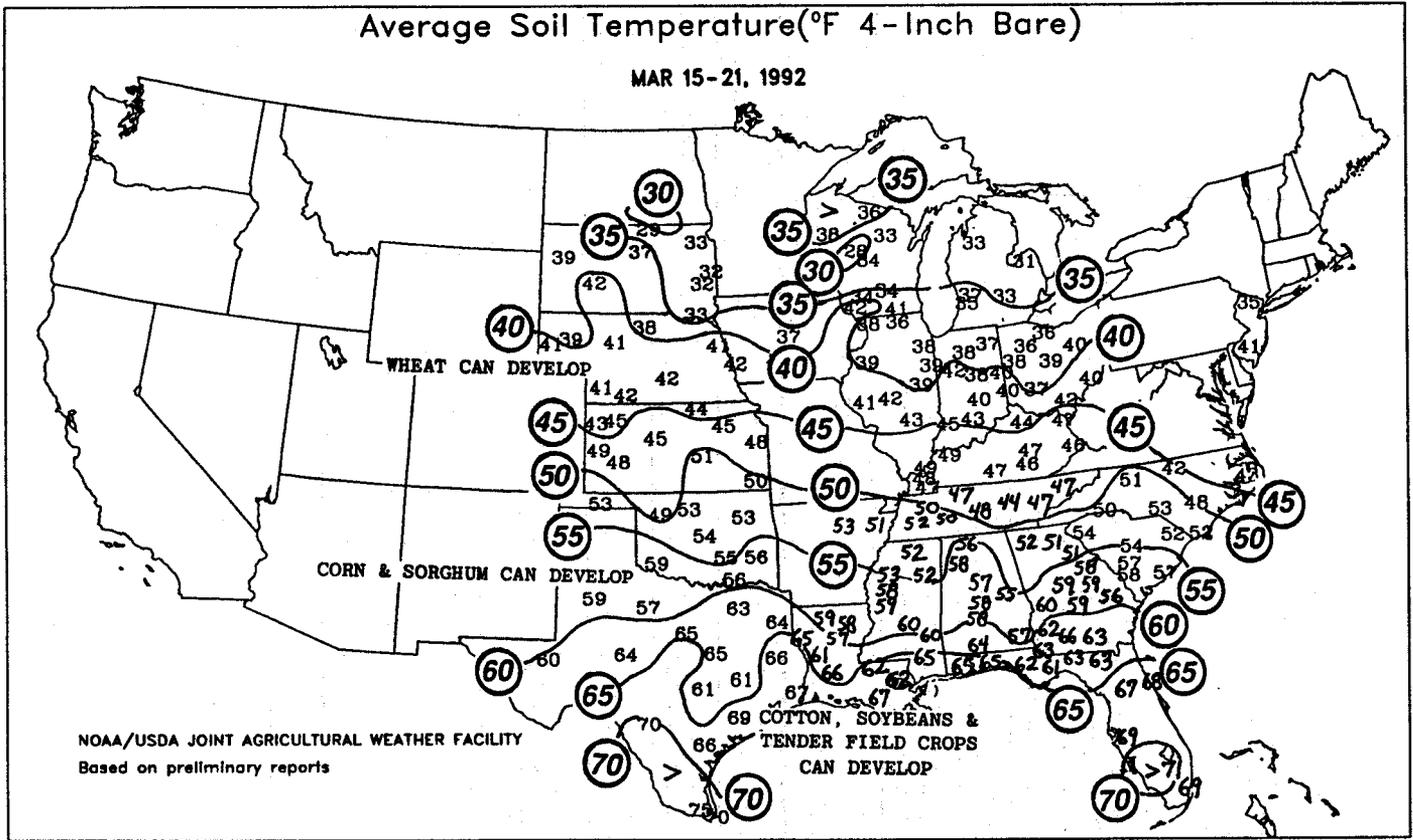
MAR 15-21, 1992



### Extreme Minimum Temperature(°F)

MAR 15-21, 1992





# National Weather Data for Selected Cities

Weather Data for the Week Ending March 21, 1992

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	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	66	39	76	26	53	-2	.9	-.6	.9	3.0	67	10.7	73	84	33	0	2	1	1		
MOBILE	72	49	81	42	60	-1	.3	-1.2	.3	2.6	60	22.5	160	90	44	0	0	0	0		
MONTGOMERY	69	42	78	33	55	-3	.9	-.5	.9	2.6	63	18.6	144	87	36	0	0	1	1		
AK ANCHORAGE	40	25	43	16	32	8	T	-1	T	.2	49	2.4	115	94	49	0	7	1	0		
BARROW	2	-10	6	-20	-4	11	T	0	T	.2	262	.4	79	84	76	0	7	1	0		
FAIRBANKS	38	5	46	-1	22	12	.0	-1	.0	.1	25	1.6	125	90	43	0	7	0	0		
JUNEAU	44	33	47	27	39	7	.9	-1	.4	6.2	270	22.2	226	99	68	0	3	3	0		
KODIAK	41	30	45	27	36	4	1.1	-.2	.8	2.8	102	14.0	102	92	62	0	5	4	1		
NOME	23	8	28	-12	16	9	.5	-.4	.2	.8	222	1.7	102	92	75	0	7	7	0		
AZ PHOENIX	79	57	83	52	68	6	.1	-1	.1	1.8	318	4.3	230	63	23	0	0	1	0		
PRESCOTT	62	33	67	27	47	2	.1	-1	.1	.7	117	4.2	180	76	23	0	4	1	0		
TUCSON	76	47	83	43	62	3	T	-1	T	1.0	212	4.0	210	65	18	0	0	0	0		
YUMA	--	--	--	--	--	--	.0	0	0	1.0	927	2.2	311	34	30	0	0	0	0		
AR FORT SMITH	66	41	72	33	53	2	1.0	-.1	.6	1.7	66	4.6	66	91	42	0	0	2	1		
LITTLE ROCK	65	44	76	36	54	1	2.4	1.3	1.6	6.8	221	10.9	100	79	47	0	0	2	2		
CA BAKERSFIELD	68	47	76	42	57	0	.1	-1	.1	.8	139	4.5	171	92	43	0	0	1	0		
EUREKA	60	47	64	42	54	5	.6	-.6	.3	2.6	73	10.3	65	85	67	0	0	2	0		
FRESNO	67	48	71	41	58	3	.6	-.2	.4	1.3	113	7.9	157	91	43	0	0	4	0		
LOS ANGELES	64	52	67	50	58	0	1.3	-.9	1.0	3.5	280	9.8	144	91	64	0	0	0	1		
REDDING	65	42	75	36	53	-1	.9	-.2	.8	3.2	92	16.4	89	96	47	0	0	2	1		
SACRAMENTO	64	45	67	40	55	1	.1	-3	.1	1.8	124	8.6	103	87	57	0	0	3	0		
SAN DIEGO	66	55	67	51	60	1	.5	-.1	.3	3.0	271	8.2	175	86	59	0	0	3	0		
SAN FRANCISCO	64	51	67	47	58	5	.5	-1	.2	3.1	166	11.6	118	92	61	0	0	3	0		
CO DENVER	54	32	67	26	43	4	.5	0	.2	2.3	299	3.5	182	86	36	0	3	3	0		
GRAND JUNCTION	59	35	67	30	47	5	.1	-1	.1	.5	110	1.1	68	72	24	0	2	1	0		
PUEBLO	61	30	73	22	45	4	T	-1	T	1.1	261	1.3	141	83	28	0	5	1	0		
CT BRIDGEPORT	39	24	46	15	31	-8	.7	-.2	.7	2.5	93	6.5	72	70	36	0	7	2	1		
HARTFORD	37	17	43	9	27	-11	.5	-.5	.2	2.2	80	7.2	75	77	30	0	7	1	0		
DC WASHINGTON	47	30	64	21	38	-8	.4	-.4	.3	1.8	75	6.8	87	84	40	0	5	2	0		
FL APALACHICOLA	69	49	78	40	59	-3	.0	-.9	.0	1.2	42	16.4	163	--	--	0	0	0	0		
DAYTONA BEACH	72	48	87	38	60	-4	.4	-.7	.7	1.0	46	5.1	66	91	40	0	0	0	0		
JACKSONVILLE	71	44	84	31	57	-6	.4	-.4	.4	1.7	72	10.1	112	90	36	0	1	2	0		
KEY WEST	78	67	84	63	72	-2	.0	-.3	.0	1.9	226	3.4	74	83	57	0	0	0	0		
MIAMI	81	59	89	53	70	-3	.0	-.4	.0	.1	9	3.4	64	91	38	0	0	0	0		
ORLANDO	76	53	85	46	65	-3	.7	-.7	.7	.3	15	4.1	54	87	38	0	0	1	0		
TALLAHASSEE	72	43	84	34	58	-3	.8	-.5	.8	2.5	63	15.4	113	95	35	0	0	1	1		
TAMPA	74	52	80	45	63	-4	.0	-.8	.0	.4	16	5.5	71	91	46	0	0	0	0		
WEST PALM BEACH	78	55	86	50	66	-4	.3	-.3	.3	1.4	79	6.4	89	92	44	0	0	1	0		
GA ATLANTA	66	40	76	29	53	0	.8	-.6	.8	2.2	55	9.7	72	77	28	0	1	2	1		
AUGUSTA	67	33	79	24	50	-6	.3	-.8	.2	2.4	70	11.4	99	98	35	0	4	3	0		
MACON	68	40	79	27	54	-3	.6	-.6	.4	2.7	74	13.1	105	93	37	0	2	2	0		
SAVANNAH	68	41	78	33	55	-5	.7	-.2	.7	1.9	72	10.8	119	87	33	0	0	1	1		
HI HILO	79	64	82	61	72	0	1.7	-1.4	.5	2.2	24	4.8	15	90	54	0	0	6	0		
HONOLULU	81	69	85	66	75	1	T	-.8	T	.7	27	2.4	27	76	47	0	0	1	0		
KAHULUI	81	64	84	59	73	0	.1	-.5	.1	.2	8	3.6	40	88	53	0	0	2	0		
LIHUE	77	69	79	66	73	1	.1	-1.0	.1	.9	29	5.3	40	83	60	0	0	1	0		
ID BOISE	59	33	65	28	46	4	T	-.2	T	.2	24	1.4	42	84	34	0	3	1	0		
LEWISTON	60	39	66	31	50	6	T	-.2	T	.4	55	1.8	60	80	41	0	1	1	0		
POCATELLO	55	34	65	28	44	8	.3	.1	.2	.4	67	1.3	49	83	32	0	2	3	0		
IL CHICAGO	40	26	47	19	33	-5	1.1	.4	.9	2.0	115	4.2	93	85	49	0	7	2	1		
MOLINE	47	29	53	22	38	1	.4	-.3	.3	.9	55	4.0	86	84	46	0	5	3	0		
PEORIA	48	30	54	24	39	1	.9	.2	.7	2.2	119	4.8	98	89	44	0	5	3	1		
QUINCY	49	32	57	26	41	1	1.8	1.1	1.2	2.0	99	4.0	82	86	47	0	4	2	1		
ROCKFORD	42	25	48	20	34	-1	.9	.3	.7	1.9	120	4.2	100	85	42	0	7	4	1		
SPRINGFIELD	49	32	57	27	41	0	1.4	.7	1.1	1.9	96	4.5	85	95	52	0	4	3	1		
IN EVANSVILLE	54	34	64	22	44	-2	1.8	.8	1.4	2.6	84	5.0	54	95	48	0	4	3	1		
FORT WAYNE	41	23	54	13	32	-6	.9	.3	.7	2.1	110	5.2	86	89	49	0	6	4	1		
INDIANAPOLIS	47	29	60	19	38	-3	.9	.0	.8	1.8	74	4.3	57	87	49	0	6	4	1		
SOUTH BEND	40	22	48	14	31	-6	.8	.1	.4	2.0	102	5.4	83	86	45	0	7	5	0		
IA DES MOINES	49	30	63	24	39	3	.1	-.4	.1	1.4	104	4.5	129	83	41	0	5	2	0		
SIOUX CITY	49	28	69	23	38	3	T	-.4	T	2.1	194	3.5	129	83	42	0	6	1	0		
WATERLOO	44	27	58	20	35	2	.2	-.4	.1	2.1	154	4.6	147	89	43	0	7	3	0		
KS CONCORDIA	53	32	74	28	43	2	.4	-.1	.3	1.4	117	3.0	113	85	48	0	5	2	0		
DODGE CITY	56	32	81	27	44	1	T	-.3	T	1.2	131	2.0	103	90	44	0	4	1	0		
GOODLAND	53	30	73	25	41	4	T	-.2	T	1.4	215	2.1	151	89	42	0	5	1	0		
TOPEKA	56	34	73	28	45	2	2.9	2.4	2.5	4.6	327	6.6	196	86	50	0	2	4	1		
WICHITA	60	37	73	29	48	3	1.7	1.2	1.3	3.0	223	4.1	142	87	57	0	2	3	1		
KY BOWLING GREEN	57	35	76	22	46	-1	1.1	-.2	.9	5.1	134	10.1	81	93	48	0	4	2	1		
LEXINGTON	51	32	63	19	42	-3	2.0	.8	1.6	3.7	113	9.2	89	91	48	0	4	6	1		
LOUISVILLE	54	35	66	24	45	-2	2.4	1.3	2.1	4.7	148	8.4	85	87	44	0	3	3	1		
LA ALEXANDRIA	70	52	81	41	61	2	.6	-.5	.5	4.6	140	17.5	140	90	50	0	0	3	0		
BATON ROUGE	73	52	79	42	62	1	.6	-.4	.4	3.5	112	20.7	162	93	47	0	0	2	0		
LAKE CHARLES	74	56	79	45	65	3	.3	-.5	.2	1.3	64	16.3	160	99	51	0	0	3	0		
NEW ORLEANS	72	53	80	46	63	1	.4	-.7	.2	4.7	144	23.4	173	93	52	0	0	2	0		

Based on 1951-80 normals.

Weather Data for the Week Ending March 21, 1992

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	TEMP. °F		PRECIP.	
																			.01 INCH OR MORE	.50 INCH OR MORE	.01 INCH OR MORE	.50 INCH OR MORE
SHREVEPORT	72	48	83	38	60	2	1.3	.4	.8	4.3	173	15.3	152	91	45	0	0	0	3	2	0	1
ME CARIBOU	25	3	31	-5	14	-12	.1	-.5	.1	.9	56	7.4	120	78	42	0	0	0	1	0	0	0
PORTLAND	35	16	43	8	25	-8	.8	-.1	.7	2.2	83	10.4	103	72	31	0	0	0	3	0	0	0
MD BALTIMORE	43	26	60	19	35	-9	.7	-.1	.4	2.2	88	6.0	70	82	41	0	0	6	3	0	0	0
SALISBURY	46	26	62	19	36	-9	.7	-.3	.4	1.8	64	7.8	81	88	43	0	0	5	0	0	0	0
MA BOSTON	38	22	44	14	30	-9	.4	-.5	.4	2.1	74	7.5	71	69	33	0	0	2	2	0	0	0
CHATHAM	36	26	41	18	31	-7	.7	-.2	.5	1.8	67	5.4	48	81	57	0	0	7	1	0	0	0
MI ALPENA	33	7	41	0	20	-8	.1	-.4	.1	1.4	119	4.8	113	86	37	0	0	7	2	0	0	0
DETROIT	40	21	50	13	30	-6	.2	-.4	.1	1.9	118	5.2	101	79	39	0	0	7	3	0	0	0
FLINT	36	17	45	5	27	-7	.1	-.4	.1	1.8	134	4.5	103	82	44	0	0	7	3	0	0	0
GRAND RAPIDS	37	18	44	10	28	-7	.6	.0	.3	2.4	145	5.0	96	88	46	0	0	7	2	0	0	0
HOUGHTON LAKE	33	10	38	-3	22	-7	.7	-.4	.7	1.2	100	3.9	96	81	38	0	0	7	2	0	0	0
LANSING	36	16	43	4	26	-8	.3	-.2	.3	2.0	127	4.7	102	90	46	0	0	7	2	0	0	0
MARQUETTE	32	5	42	-1	18	-6	.1	-.5	.1	2.5	138	6.5	112	81	51	0	0	7	2	0	0	0
MUSKOGON	37	19	44	11	28	-6	.6	.0	.3	2.0	123	4.7	83	85	43	0	0	7	2	0	0	0
SAULT ST. MARIE	29	2	38	-5	15	-10	.2	-.3	.2	1.4	108	5.4	103	90	47	0	0	7	2	0	0	0
MN ALEXANDRIA	37	20	46	11	28	3	.7	-.3	.7	1.5	204	2.8	121	87	46	0	0	7	1	0	0	0
DULUTH	33	8	43	-4	21	-4	.7	-.4	.7	.8	71	2.0	62	77	36	0	0	7	0	0	0	0
INT'L FALLS	30	2	37	-7	16	-6	.7	-.3	.7	.4	60	2.8	123	82	35	0	0	7	0	0	0	0
MINNEAPOLIS	39	21	47	11	30	-1	.2	-.2	.2	1.4	124	2.6	94	78	32	0	0	7	2	0	0	0
ROCHESTER	34	20	39	7	27	-3	.1	-.3	.1	1.7	157	3.3	126	88	51	0	0	7	1	0	0	0
MS GREENWOOD	66	44	77	35	55	0	.9	.6	.5	3.3	80	9.0	64	84	47	0	0	0	2	0	0	0
JACKSON	69	45	77	37	57	0	.7	.6	.6	1.8	48	9.9	76	93	45	0	0	0	4	1	1	1
MERIDIAN	70	44	78	35	57	1	1.7	.1	1.6	3.6	80	14.6	103	86	36	0	0	0	3	3	3	1
MO CAPE GIRARDEAU	57	36	69	26	47	-1	1.7	.6	1.6	2.1	63	7.4	78	93	53	0	0	2	3	3	1	1
COLUMBIA	53	32	62	25	43	-1	1.6	.9	1.2	2.1	97	4.6	78	88	47	0	0	4	3	3	1	1
KANSAS CITY	53	33	69	26	43	-1	2.1	1.5	2.0	3.1	184	6.4	152	88	49	0	0	5	3	3	1	1
SAINT LOUIS	54	36	65	30	45	1	1.4	.7	.9	1.8	84	4.8	79	83	45	0	0	3	3	3	1	1
SPRINGFIELD	60	36	69	31	48	3	.8	.0	.5	1.5	65	4.5	75	85	47	0	0	2	4	4	0	0
MT BILLINGS	50	32	70	26	41	6	.2	-.1	.1	.7	105	.9	38	90	45	0	0	5	4	4	0	0
GLASGOW	51	27	64	22	39	10	.7	.1	.7	.5	237	.7	87	83	38	0	0	6	2	2	0	0
GREAT FALLS	50	29	68	18	39	7	.3	-.1	.1	.4	62	1.1	47	91	47	0	0	5	5	0	0	0
HAVRE	51	27	67	21	39	9	.7	-.1	.7	.6	3	.2	16	88	38	0	0	6	0	0	0	0
HELENA	52	32	65	23	42	10	.6	.4	.3	.6	136	1.0	63	89	46	0	0	3	4	4	0	0
KALISPELL	49	33	56	24	41	8	.8	.6	.3	.9	159	2.9	88	94	57	0	0	3	4	2	0	0
MILES CITY	51	31	72	25	41	9	.1	.0	.1	.4	119	.5	33	82	41	0	0	5	2	0	0	0
MISSOULA	52	33	59	25	43	8	1.0	.8	.8	1.1	204	1.7	62	89	44	0	0	3	4	4	1	1
NE GRAND ISLAND	51	30	73	24	41	4	.2	-.1	.2	2.4	254	5.2	228	88	44	0	0	6	2	0	0	0
LINCOLN	53	29	71	21	41	4	.7	-.3	.5	1.7	135	4.0	135	92	41	0	0	5	3	0	0	0
NORFOLK	53	28	73	21	41	6	.7	-.3	.7	1.6	168	3.7	164	84	38	0	0	6	2	0	0	0
NORTH PLATTE	52	28	76	25	40	5	.2	-.1	.1	2.5	365	4.8	300	93	41	0	0	6	2	0	0	0
OMAHA	51	29	68	25	40	2	.2	-.3	.2	2.5	213	5.1	177	85	45	0	0	6	3	0	0	0
SCOTTSBLUFF	52	26	68	19	39	3	.7	-.2	.7	1.2	197	2.9	197	92	41	0	0	6	1	0	0	0
VALENTINE	45	26	67	19	35	2	.1	-.2	.1	1.2	246	2.0	151	88	56	0	0	6	1	0	0	0
NV ELY	51	24	58	20	37	3	.2	.0	.1	1.2	202	2.4	119	84	35	0	0	3	3	0	0	0
LAS VEGAS	69	48	73	45	59	3	.1	.0	.0	1.9	693	3.7	301	67	22	0	0	0	2	0	0	0
RENO	58	32	64	26	45	4	.7	-.2	.7	.2	38	.8	28	70	22	0	0	3	0	0	0	0
WINNEMUCCA	58	27	65	17	43	4	.1	-.1	.0	.7	171	1.0	50	79	26	0	0	4	2	0	0	0
NH CONCORD	35	12	41	7	23	-10	.7	-.7	.7	1.2	59	4.4	61	77	31	0	0	7	1	0	0	0
NJ ATLANTIC CITY	43	22	56	15	33	-9	.8	-.1	.5	2.2	80	5.3	55	84	37	0	0	7	2	0	0	0
NM ALBUQUERQUE	65	34	69	29	50	3	.7	-.1	.7	.4	127	1.2	109	57	16	0	0	2	0	0	0	0
CLOVIS	71	37	77	33	54	6	.0	-.1	.0	.2	60	2.4	188	73	15	0	0	0	0	0	0	0
ROSWELL	74	39	81	34	57	5	.0	-.1	.0	.1	31	1.7	156	59	13	0	0	0	0	0	0	0
NY ALBANY	35	16	40	9	25	-10	.1	-.6	.1	1.0	50	4.1	62	79	35	0	0	7	2	0	0	0
BINGHAMTON	30	15	36	7	22	-11	.3	-.4	.2	1.4	70	5.0	73	88	45	0	0	7	3	0	0	0
BUFFALO	33	18	39	7	26	-9	.2	-.5	.1	1.6	83	6.1	82	83	44	0	0	7	4	0	0	0
NEW YORK	40	28	50	19	34	-8	1.3	.4	1.2	2.6	94	5.4	60	72	34	0	0	6	2	1	0	0
ROCHESTER	33	14	40	2	24	-11	.1	-.5	.1	1.9	109	5.2	81	88	47	0	0	7	2	0	0	0
SYRACUSE	31	12	37	4	22	-13	.1	-.6	.1	2.0	97	7.1	97	87	45	0	0	7	3	0	0	0
NC ASHEVILLE	59	33	73	25	46	-2	.6	-.5	.3	3.1	94	9.8	100	86	32	0	0	4	3	0	0	0
CHARLOTTE	62	38	71	27	50	-1	1.1	.0	.7	3.5	106	11.1	101	73	32	0	0	1	3	1	0	0
GREENSBORO	60	31	71	21	46	-3	.4	-.5	.4	1.7	66	8.3	86	77	31	0	0	4	2	0	0	0
HATTERAS	56	39	69	26	47	-5	1.4	-.5	1.0	3.7	135	12.3	105	85	44	0	0	2	4	1	0	0
NEW BERN	61	35	75	29	48	-5	.5	-.3	.3	1.4	55	10.2	96	91	35	0	0	4	3	0	0	0
RALEIGH	61	33	74	26	47	-3	.4	-.5	.3	2.3	89	8.3	86	76	32	0	0	4	2	0	0	0
WILMINGTON	63	37	78	29	50	-5	1.2	-.3	.5	3.7	132	12.9	129	89	37	0	0	3	3	1	0	0
ND BISMARCK	41	22	52	13	31	4	.2	-.1	.2	.6	149	1.3	98	82	45	0	0	7	3	0	0	0
FARGO	38	19	46	15	29	3	.7	-.2	.7	1.0	224	2.5	175	85	46	0	0	7	0	0	0	0
GRAND FORKS	34	16	43	10	25	2	.7	-.2	.7	.8	158	1.8	101	87	46	0	0	7	0	0	0	0
WILLISTON	47	22	65	11	35	8	.1	-.1	.1	.6	170	1.1	88	89	46	0	0	7	1	0	0	0
OH AKRON-CANTON	36	19	43	10	28	-10	.9	-.2	.5	2.5	111	6.4	91	95	50	0	0	7	6	1	0	0
CINCINNATI	47	28	59	16	37	-6	1.2	-.3	1.1	3.3	124	7.2	84	85	44	0	0	5	4	1	0	0
CLEVELAND	38	21	46	11	29	-9	.6	-.1	.3	1.9	97	7.9	118	94	43	0	0	7	4	0	0	0
COLUMBUS	42																					

Weather Data for the Week Ending March 21, 1992

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		
DAYTON	43	25	56	14	34	-7	1.4	-.7	1.2	2.2	108	6.2	92	87	46	0	0	6	4	1	0	
TOLDO	41	22	52	12	32	-5	.7	-.1	.2	1.8	108	5.2	94	84	41	0	0	7	5	0	0	
YOUNGSTOWN	35	17	40	8	26	-10	.5	-.2	.3	1.6	75	5.5	77	91	47	0	0	7	4	0	0	
OK OKLAHOMA CITY	65	43	73	30	54	4	T	-.5	.3	.7	49	3.1	84	83	47	0	0	1	1	0	0	
TULSA	66	44	72	35	55	5	.2	-.6	.1	1.0	49	2.8	54	84	40	0	0	0	2	0	0	
OR ASTORIA	60	38	67	33	49	4	.4	-1.3	.1	1.1	21	16.1	68	96	54	0	0	0	3	0	0	
BURNS	55	24	62	19	39	3	T	-.2	T	.5	77	1.6	50	89	28	0	0	7	1	0	0	
MEDFORD	66	35	75	30	51	5	T	-.4	T	.2	18	1.7	25	97	37	0	0	4	2	0	0	
PENDLETON	59	38	64	31	48	4	T	-.2	T	.2	31	1.7	46	82	37	0	0	2	1	0	0	
PORTLAND	62	42	69	36	52	6	1.5	-.6	.9	1.9	75	10.3	81	99	50	0	0	0	3	3	1	
SALEM	63	37	70	31	50	5	.2	-.8	.1	.9	29	10.1	69	93	47	0	0	2	1	0	0	
PA ALLENTOWN	39	22	48	14	30	-9	1.1	-.2	.9	2.2	84	5.4	60	81	38	0	0	7	2	3	0	
ERIE	35	21	39	14	28	-7	.2	-.5	.1	1.3	69	5.8	91	83	45	0	0	7	3	0	0	
HARRISBURG	40	27	54	17	33	-8	.8	-.0	.8	3.2	134	5.8	71	74	40	0	0	7	1	0	0	
PHILADELPHIA	42	28	55	19	35	-8	.9	-.0	.5	2.0	77	4.2	48	76	39	0	0	6	2	0	0	
PITTSBURGH	38	22	43	9	30	-10	1.5	-.7	1.1	2.6	111	6.5	84	96	58	0	0	7	2	0	0	
SCRANTON	33	19	39	10	26	-11	.3	-.3	.3	1.4	83	4.1	67	85	42	0	0	7	2	0	0	
RI PROVIDENCE	39	23	45	15	31	-7	.2	-.7	.2	2.7	93	9.6	89	68	31	0	0	7	1	0	0	
SC CHARLESTON	64	41	74	34	53	-5	.6	-.4	.6	1.8	59	9.0	92	86	40	0	0	0	0	1	0	
COLUMBIA	66	36	77	26	51	-5	.6	-.6	.4	1.7	48	9.0	75	91	32	0	0	0	3	0	0	
FLORENCE	64	37	76	29	51	-5	.7	-.3	.6	1.1	40	6.6	67	86	34	0	0	4	2	1	0	
GREENVILLE	62	37	71	29	49	-3	1.8	-.4	1.2	4.3	103	12.9	99	86	35	0	0	3	3	0	0	
SD ABERDEEN	43	23	53	19	33	4	.1	-.1	.1	.5	92	1.7	97	90	38	0	0	3	2	0	0	
HURON	46	22	60	15	34	3	T	-.3	T	.9	113	2.8	142	88	38	0	0	7	0	0	0	
RAPID CITY	49	27	68	20	38	5	.5	-.2	.5	1.6	269	2.1	128	84	45	0	0	6	2	0	0	
TN STOUX FALLS	44	26	63	20	35	3	T	-.4	T	1.9	186	4.4	178	87	50	0	0	7	0	0	0	
TN CHATTANOOGA	60	35	74	27	48	-3	2.0	-.6	1.6	3.1	72	12.1	84	94	39	0	0	4	2	0	0	
KNOXVILLE	58	35	71	25	46	-4	.5	-.7	.4	2.7	72	9.9	78	88	40	0	0	4	3	0	0	
MEMPHIS	63	41	74	31	52	0	1.8	-.6	1.7	6.3	174	10.3	81	86	48	0	0	1	3	0	0	
NASHVILLE	59	38	74	27	49	-1	1.0	-.4	.7	3.6	96	9.2	74	91	47	0	0	3	2	0	0	
TX ABILENE	72	49	83	38	61	4	T	-.3	T	.6	91	6.1	229	81	40	0	0	0	0	1	0	
AMARILLO	69	35	79	25	52	5	.1	-.1	.1	.5	79	1.3	77	87	24	0	0	2	1	0	0	
AUSTIN	74	55	84	47	65	3	1.1	-.8	1.1	3.7	339	15.1	291	91	45	0	0	0	2	1	0	
BRAUMONT	74	54	80	47	64	4	1.1	-.4	.9	1.4	67	18.9	181	98	56	0	0	0	3	1	0	
BROWNSVILLE	81	64	91	58	72	3	T	-.1	T	.7	10	5.5	180	95	57	1	0	0	0	1	0	
CORPUS CHRISTI	79	60	89	52	69	3	.1	-.0	.1	.3	67	9.9	275	94	53	0	0	0	3	0	0	
DEL RIO	75	54	83	48	65	1	.3	-.2	.3	2.3	639	8.0	453	71	36	0	0	0	1	0	0	
EL PASO	75	46	82	37	60	4	.2	-.2	.2	.4	159	1.7	159	57	15	0	0	0	2	0	0	
FORT WORTH	69	51	78	42	60	3	.3	-.2	.3	2.6	173	8.2	162	87	45	0	0	0	2	0	0	
GALVESTON	71	61	75	54	66	4	.1	-.4	.1	.6	43	17.4	256	92	64	0	0	0	2	0	0	
HOUSTON	75	56	83	44	65	3	.2	-.4	.2	4.8	272	18.5	214	93	49	0	0	0	2	0	0	
LUBBOCK	74	41	81	33	58	7	T	-.2	T	.3	51	3.6	241	87	23	0	0	0	0	0	0	
MIDLAND	75	46	82	39	60	4	.0	-.1	.0	.2	52	3.9	305	77	21	0	0	0	0	0	0	
SAN ANGELO	73	47	82	37	60	2	T	-.2	T	.5	102	6.2	317	88	40	0	0	0	0	0	0	
SAN ANTONIO	75	54	85	48	65	2	T	-.3	T	3.9	463	15.9	375	88	43	0	0	0	2	0	0	
VICTORIA	77	58	90	49	68	3	.1	-.2	.1	.1	11	14.2	283	91	48	1	0	0	1	0	0	
WACO	72	53	83	41	63	4	.6	-.1	.6	3.1	247	13.8	278	91	47	0	0	0	1	0	0	
WICHITA FALLS	68	44	79	35	56	2	.5	-.1	.5	1.1	96	4.0	130	91	48	0	0	0	1	0	0	
UT CEDAR CITY	55	31	61	23	43	3	T	-.2	T	.9	126	2.4	111	82	27	0	0	4	1	0	0	
SALT LAKE CITY	57	39	66	34	48	7	.6	-.2	.6	.7	61	2.7	72	76	36	0	0	0	1	0	0	
VT BURLINGTON	30	10	39	2	20	-11	.1	-.5	.1	1.5	103	4.7	93	84	38	0	0	7	1	0	0	
VA NORFOLK	54	34	74	27	44	-5	.2	-.7	.2	1.0	39	7.6	78	75	40	0	0	2	1	0	0	
RICHMOND	53	30	70	23	42	-7	.1	-.7	.1	4.5	184	9.0	101	82	39	0	0	5	2	0	0	
ROANOKE	55	31	71	25	43	-4	.5	-.4	.4	1.8	71	8.0	93	73	34	0	0	5	2	0	0	
WA QUILLAYUTE	59	38	69	31	49	6	.4	-2.3	.3	1.7	20	32.9	93	98	56	0	0	1	3	0	0	
SEATTLE-TACOMA	58	42	69	36	50	6	.8	-.0	.6	1.4	56	12.4	96	98	62	0	0	0	2	1	0	
SPOKANE	54	34	58	27	44	6	.2	-.2	.1	.4	46	4.3	86	93	46	0	0	2	3	0	0	
YAKIMA	62	33	65	26	48	5	.1	-.1	.0	.2	49	1.1	43	92	38	0	0	4	2	0	0	
WV BECKLEY	46	30	59	19	38	-4	1.0	-.1	.5	3.5	130	7.8	83	91	45	0	0	5	5	1	0	
CHARLESTON	51	32	64	22	42	-4	1.1	-.2	.5	3.8	142	8.5	91	83	42	0	0	4	5	1	0	
HUNTINGTON	52	32	62	22	42	-5	1.3	-.4	.8	2.8	103	6.8	76	88	43	0	0	4	4	1	0	
PARKERSBURG	47	27	59	14	37	-7	1.3	.5	1.0	3.2	132	5.9	74	89	43	0	0	5	5	1	0	
WI GREEN BAY	36	18	44	10	27	-3	.1	-.4	.1	1.5	127	2.8	81	87	46	0	0	7	1	0	0	
LACROSSE	39	21	44	11	30	-3	T	-.5	T	2.5	213	4.2	139	84	36	0	0	7	1	0	0	
MADISON	40	21	45	14	31	-2	.6	-.1	.3	1.5	114	3.6	104	88	41	0	0	7	2	0	0	
MILWAUKEE	38	26	46	20	32	-1	.7	-.1	.4	2.2	133	4.8	104	83	49	0	0	7	3	0	0	
WAUSAU	36	15	45	4	25	-3	.1	-.4	.1	2.0	165	3.2	104	90	48	0	0	7	1	0	0	
WY CASPER	51	28	65	23	39	7	.3	-.0	.1	1.2	192	1.7	103	87	37	0	0	6	3	0	0	
CHEYENNE	48	28	61	24	38	6	.1	-.2	.0	2.4	381	2.9	199	87	38	0	0	7	2	0	0	
LANDER	51	30	63	26	41	8	.6	.3	.3	1.8	275	2.5	138	83	35	0	0	5	2	0	0	
SHERIDAN	51	31	68	25	41	8	.3	.1	.3	.9	131	1.1	48	92	44	0	0	5	1	0	0	

Based on 1951-80 normals.

## HEATING DEGREE DAYS (Base 65° F) March 15 - 21, 1992

(Cumulative totals and departures from normal are for the period July 1, 1991 - March 21, 1992)

STATES AND STATIONS	WEEKLY		CUMULATIVE			STATES AND STATIONS	WEEKLY		CUMULATIVE			STATES AND STATIONS	WEEKLY		CUMULATIVE		
	TOTAL	DEPARTURE	TOTAL	DEPARTURE	DEP fm 90-91		TOTAL	DEPARTURE	TOTAL	DEPARTURE	DEP fm 90-91		TOTAL	DEPARTURE	TOTAL	DEPARTURE	DEP fm 90-91
AL BIRMINGHAM	86	5	2334	-302	151	NEW ORLEANS	22	-14	1320	-114	238	CINCINNATI	191	34	4036	-536	65
MOBILE	33	-5	1551	-64	286	SHREVEPORT	39	-21	1826	-309	-166	DAYTON	214	40	4493	-417	94
MONTGOMERY	67	6	1980	-160	256	ME CARIBOU	356	78	7897	45	448	TOLEDO	233	30	4956	-596	58
AK ANCHORAGE	228	-59	8137	-553	-606	PORTLAND	277	52	5784	-305	610	YOUNGSTOWN	270	67	4997	-493	252
BARROW	478	-87	15393	103	300	MD BALTIMORE	212	65	3940	-157	492	OK OKLAHOMA CITY	74	-37	2756	-636	-230
FAIRBANKS	304	-88	11579	-484	32	SALISBURY	200	58	3559	-257	299	TULSA	67	-42	2637	-772	-284
JUNEAU	182	-56	6052	-1046	-680	MA BOSTON	243	61	4540	-115	527	OR ASTORIA	111	-35	3433	-465	-267
KODIAK	203	-20	6383	-236	-252	CHATHAM	236	42	4447	-234	424	BURNS	179	-21	5226	-319	-700
NOME	344	-29	10434	-527	-31	MI ALPENA	312	49	6415	-396	206	MEDFORD	98	-37	3105	-757	-675
AZ FLAGSTAFF	184	-29	5129	-506	-239	DETROIT	240	34	5023	-511	135	PENDLETON	114	-32	3860	-493	-465
PHOENIX	1	-41	765	-582	-60	FLINT	267	40	5512	-380	100	PORTLAND	90	-43	2910	-801	-529
PRESCOTT	124	-31	3562	-423	-183	GRAND RAPIDS	261	42	5432	-369	106	SALEM	103	-37	3099	-751	-510
TUCSON	24	-32	1318	-266	10	HOUGHTON LAKE	304	46	6309	-508	07	PA ALLENTOWN	242	61	4480	-485	203
WINSLOW	136	-2	4338	158	-71	LANSING	270	51	5593	-263	167	ERIE	255	38	4799	-716	264
YUMA	0	-21	475	-452	-176	MARQUETTE	324	35	7474	-235	-19	HARRISBURG	220	54	4205	-404	214
AR FORT SMITH	80	-20	2640	-552	-262	MUSKOGON	258	37	5316	-404	104	PHILADELPHIA	207	49	3782	-501	331
LITTLE ROCK	76	-17	2464	-455	-104	SAULT ST MARIE	345	62	7232	-250	107	PITTSBURGH	243	62	4559	-514	255
CA BAKERSFIELD	51	-5	1856	-30	-125	MN ALEXANDRIA	257	-25	7005	-780	-90	SCRANTON	271	74	5006	-356	378
EUREKA	79	-40	2763	-638	-283	DULUTH	310	20	7698	-435	-41	RI PROVIDENCE	237	48	4458	-453	292
FRESNO	49	-26	1980	-337	-220	INT'L FALLS	340	34	8178	-682	-139	SC CHARLESTON	85	25	1609	-404	196
LOS ANGELES	45	-11	755	-446	-150	COLUMBIA	246	-1	6437	-449	30	COLUMBIA	98	21	2163	-284	180
REDDING	70	-12	2065	-231	-175	ROCHESTER	264	9	6650	-397	01	FLORENCE	101	26	2010	-370	148
SACRAMENTO	68	-14	2072	-269	-142	SAINT CLOUD	254	-17	7006	-613	-98	GREENVILLE	108	10	2598	-349	44
SAN DIEGO	35	-7	644	-350	-266	MS GREENWOOD	67	-8	2155	-379	-27	SD ABERDEEN	219	-38	6260	-1061	-421
SAN FRANCISCO	50	-34	1807	-576	-141	JACKSON	55	-10	1947	-295	20	HURON	218	-27	5888	-1051	-470
STOCKTON	67	-11	2083	-237	-152	MERIDIAN	53	-14	1968	-346	152	RAPID CITY	184	-41	5059	-976	-583
CO DENVER	153	-35	4650	-290	43	MO CAPE GIRARDEAU	127	-4	3320	-650	-216	ST LOUIS	210	-29	5933	-835	-330
GRAND JCT.	123	-35	4893	-42	-507	COLUMBIA	155	-5	3986	-602	-124	TN CHATTANOOGA	120	11	2823	-423	198
PUEBLO	137	-33	4516	-150	-5	KANSAS CITY	150	-11	4073	-600	-234	KNOXVILLE	129	21	3058	-250	181
CT BRIDGEPORT	236	52	4305	-255	384	SAINT LOUIS	138	-11	3553	-830	-158	MEMPHIS	87	-10	2484	-478	03
HARTFORD	263	71	4925	-330	437	SPRINGFIELD	117	-28	3485	-626	-211	NASHVILLE	114	0	2969	-434	80
DE WILMINGTON	212	54	3865	-433	241	MT BILLINGS	167	-51	4768	-1151	-551	TX ARLING	32	-37	2363	-75	82
DC WASHINGTON	183	53	3336	-324	313	GLASGOW	183	-85	5981	-1542	-786	AMARILLO	89	-39	3527	-200	-26
FL APALACHICOLA	60	25	1236	-113	371	GREAT FALLS	178	-57	5095	-1220	-709	AUSTIN	16	-26	1353	-327	-108
DAYTONA BEACH	43	19	723	-144	258	HELVA	160	-73	5828	-812	-102	BEAUMONT	12	-24	1227	-196	-24
FORT MYERS	6	0	210	-227	94	HELENA	166	-65	5820	-962	-637	BROWNSVILLE	0	-8	568	-35	53
JACKSONVILLE	59	22	1217	-138	306	KALISPELL	165	-68	5195	-1476	-764	CORPUS CHRISTI	0	-21	780	-170	-10
KEY WEST	0	0	14	-102	01	MILES CITY	165	-60	5508	-869	-563	DEL RIO	9	-21	1243	-226	46
MIAMI	0	-4	61	-137	16	MISSOULA	155	-60	4695	-941	-351	EL PASO	36	-31	2322	-177	21
ORLANDO	16	3	483	-166	173	NE GRAND ISLAND	169	-32	4587	-1001	-358	FORT WORTH	33	-30	1912	-256	-176
TALLAHASSEE	57	18	1485	-80	340	LINCOLN	167	-30	5060	-1027	-459	GALVESTON	6	-29	979	-227	11
TAMPA	23	6	531	-195	236	NORFOLK	169	-48	4884	-974	-418	HOUSTON	14	-25	1299	-188	-47
W. PALM BEACH	7	5	155	-108	63	NORTH PLATTE	172	-38	4819	-374	-405	LUBBOCK	48	-53	2937	-255	110
GA ATLANTA	82	-4	2221	-535	22	OMAHA	174	-17	4948	-639	-407	MIDLAND-ODESSA	32	-40	2552	72	195
AUGUSTA	105	31	2156	-234	243	SCOTTSBUFF	180	-25	5402	-809	-437	SAN ANGELO	32	-26	2120	-61	-45
MACON	78	15	1951	-201	177	VALENTINE	206	-25	5515	-538	-270	SAN ANTONIO	11	-26	1297	-247	-124
SAVANNAH	72	21	1511	-319	222	NV ELY	192	-28	1978	-327	-186	VICTORIA	5	-24	1001	-230	-96
ID BOISE	130	-34	4283	-499	-710	LAS VEGAS	44	-26	3905	-908	-554	WACO	25	-27	1695	-308	-182
LEWISTON	106	-48	3866	-639	94	RENO	136	-34	4527	-609	-736	WICHITA FALLS	62	-24	2421	-374	-131
POCATELLO	142	-63	5255	-539	-448	WINNEMUCCA	155	-29	5872	-344	382	UT BLANDING	121	-59	4420	-660	-476
IL CHICAGO	222	23	5107	-380	-50	NH CONCORD	291	66	4097	-194	317	CEDAR CITY	154	-25	4605	-288	-539
MOLINE	185	-16	4979	-665	-328	NJ ATLANTIC CITY	224	61	3687	-201	-3	SALT LAKE CITY	119	-48	4533	-328	-412
PEORIA	180	-10	4761	-652	-278	NM ALBUQUERQUE	105	-24	3508	-87	352	VT BURLINGTON	314	70	6440	-176	705
QUINCY	167	-12	4454	-617	-210	CLOVIS	78	-46	3023	132	456	VA LYNCHBURG	158	27	3380	-437	129
ROCKFORD	219	5	5357	-603	-304	ROSWELL	57	-26	5544	-300	434	NORFOLK	144	32	2701	-356	312
SPRINGFIELD	169	-4	4343	-609	-251	NY ALBANY	278	64	5582	-486	147	RICHMOND	163	43	3077	-467	249
IN EVANSVILLE	144	2	3686	-525	-50	BINGHAMTON	298	67	5311	-312	356	ROANOKE	153	25	3332	-467	241
FORT WAYNE	230	37	4868	-523	38	BUFFALO	274	54	3740	-449	380	WA COLVILLE	146	-46	5087	-780	-570
INDIANAPOLIS	188	18	4238	-671	-181	NEW YORK	213	50	5463	-125	380	QUILLAYUTE	114	-47	3731	-708	-406
SOUTH BEND	237	39	4949	-452	98	ROCHESTER	289	72	5502	-156	408	SEATTLE-TACOMA	102	-45	3142	-830	-539
IA DES MOINES	177	-28	5002	-721	-317	SYRACUSE	302	85	3283	-452	108	SPOKANE	143	-48	4780	-822	-631
DUBUQUE	218	-8	5761	-557	-272	NC ASHEVILLE	134	8	1911	-448	187	YAKIMA	120	-39	4268	-744	-677
SIoux CITY	185	-30	5275	-794	-362	CAPE HATTERAS	123	22	2387	-649	73	WV BECKLEY	189	26	4537	-209	588
WATERLOO	207	-24	5764	-736	-395	CHARLOTTE	103	3	2941	-525	157	CHARLESTON	163	27	3601	-511	208
KS CONCORDIA	154	-18	4079	-829	-300	GREENSBORO	134	16	2181	-426	154	HUNTINGTON	160	26	3636	-462	170
DODGE CITY	143	-16	3885	-534	-204	NEW BERN	117	29	2699	-490	165	PARKERSBURG	193	45	4083	-230	295
GOODLAND	164	-30	4513	-619	-224	RALEIGH-DURHAM	125	13	2030	-262	254	WI GREEN BAY	264	14	6229	-580	-90
TOPEKA	138	-21	3870	-837	-311	WILMINGTON	104	24	6487	-1185	-541	LA CROSSE	243	8	6041	-459	-16
WICHITA	115	-33	3518	-750	-326	ND BISMARCK	233	-36	7027	-922	-209	MADISON	238	6	5807	-672	-182
KY BOWLING GREEN	129	-3	3383	-475	52	FARGO	253	-29	7377	-968	-254	MILWAUKEE	228	2	5278	-767	-28
LEXINGTON	160	15	3719	-504	47	GRAND FORKS	211	-64	6463	-1329	-569	WAUSAU	277	16	6833	-376	43
LOUISVILLE	141	2	3350	-668	-79	WILLISTON	260	67	4896	-366	290	WY CASPER	177	-53	5407	-758	-425
LA ALEXANDRIA	30	-23	1602	-266	-100	OH AKRON-CANTON	249	55	4713	-475	82	CHEYENNE	185	-46	5262	-544	-306
BATON ROUGE	25	-15	1365	-241	28	CLEVELAND	249	55	4713	-475	82	LANDER	169	-59	6020	-425	-46
LAKE CHARLES	14	-26	1290	-228	-61	COLUMBUS	216	47	4331	-563	91	SHERIDAN	167	-64	5334	-1043	-523

Based on 1951-80 normals.

## National Agricultural Summary

March 16 - 22, 1992

**HIGHLIGHTS:** Low temperatures in the Northeast turned precipitation to snow and slowed early season field work. Milder temperatures with little rain visited the Northern Great Plains and Rocky Mountains allowing spring planting activities to progress. Preliminary assessments of freeze damage during early March indicate moderate damage to some early fruit in the Southeast, and modest damage to fall-seeded grains in the middle and lower Mississippi Valley.

**SMALL GRAINS:** Seeding of barley, oats, and spring wheat made good progress in the western half of the Nation, as weather conditions were generally favorable. Rains and snow in the East, however, limited field work. Some Missouri wheat fields were still showing discoloration from the cold weather of 2 weeks ago, and damage to Kansas wheat was concentrated in the south where stands were jointing. Small grains made excellent growth in California, where many fields were heading.

**OTHER FIELD CROPS:** Corn planting was delayed by rains in parts of the Southeast, while better progress was made in the South-Central States. Sorghum planting increased in Texas. Cotton planting was underway in Arizona, California, and Texas. Rice planting was underway in Louisiana and Texas, but blackbirds and ducks were causing serious damage to some newly planted fields in Louisiana. Early potato planting started in central Washington. Sugarbeets were being thinned in California, while planting was beginning in Wyoming. California safflower was emerging. Florida sugarcane harvest was virtually complete.

**FRUIT AND NUTS:** Alabama peach orchards received moderate to heavy thinning as a result of freeze damage earlier in the month, and crop potential is still fair to good. Frost damage to South Carolina peaches was light and spotty. Damage to early budding fruits was also reported in northwest Arkansas. Lemon, grapefruit, orange, and tangerine picking continued in Arizona. California navel oranges were 60 percent picked, and one-third of the south coast lemons were picked. Pollinator bees were moved out of

California almond orchards, while cherries, peaches, prunes, apricots, asian pears, apples, and pomegranates bloomed. Fruit was setting on plum, peach, nectarine, and apricot trees. Warm weather in the West was forcing leaves out and encouraging budding in grapes. Valencia harvest was increasing in Florida. Grapefruit harvest was slowing, and honey tangerine harvest was almost over. Temple movement was also slowing. New York maple producers were waiting for warmer days for good maple runs.

**VEGETABLES:** Artichoke harvest picked up in California, and asparagus packing continued in the San Joaquin and Imperial Valleys. Broccoli and cauliflower supplies were moderate in the Salinas-Watsonville area and fairly light in Santa Maria. Iceberg lettuce harvest started in California's Westside area and packing was seasonally increasing in Salinas-Watsonville. Desert area melons were looking good with low whitefly numbers. Spinach was being harvested in the State's central valley. Dry onion seeding was underway in Colorado. Harvest of winter vegetable crops was steady in Florida and spring crop harvests were increasing. Florida's volume leaders were tomatoes, peppers, potatoes, cabbage, cucumbers, celery, strawberries, and snap beans. Harvesting of carrots and cabbage continued in Texas.

**PASTURES AND LIVESTOCK:** Cattle continued to be moved off Kansas wheat pasture into feedlots and sale barns, but significant numbers remained on wheat. Calving, lambing, and shearing were in full swing in the West. Feed supplies remained adequate in most areas.

## State Summaries of Weather and Agriculture

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

**ALABAMA:** Rainfall 1.00 to 2.00 in.; over 3.00 in. local areas northeast. Temperatures 1 to 4° below normal; slightly above normal northwest. Days suitable for fieldwork 4.0. Soil moisture 55% adequate, 45% surplus. Peach orchards received 40% bloom damage from early March freeze; damage described as moderate to heavy thinning; crop potential still fair to good. Heavy damage to blueberries few areas. Acreage intended for spring planting 31%, 37% 1991, 32% avg. Fieldwork progress 60% on schedule; 36% behind normal, 10 days avg.; 4% ahead of normal, 4 days avg. Corn 25% planted,

27% 1991, 30% avg. Winter wheat 8% headed, 10% 1991, 12% avg.; 6% poor, 31% fair, 58% good, 5% excellent; insect, disease pressure light. Livestock feed now obtained from pastures 35%. Pastures 7% poor, 48% fair, 43% good, 2% excellent. Livestock 36% fair, 59% good, 5% excellent. Activities: Preparing land for planting; fertilizing pastures; applying lime; general repairs; planting corn, Irish potatoes, spring vegetables; scouting wheat; applying herbicides to corn, wheat; pruning, spraying fruit trees; harvesting, marketing catfish; care, feeding of livestock, poultry, catfish.

**ARIZONA:** Clear, sunny, 15th to 16th. Light scattered showers statewide, 17th. Showers 18th, northeast, east. Mostly sunny 19th to 20th. Rain statewide 21st. Rainfall range, trace southwest to 0.99 in. northwest. Temperatures normal to 7° above. Extremes 19°, 77°, higher elevations; 35°, 86° deserts.

Cotton planting continued statewide. Alfalfa good; weed, insects moderate, harvest moderate. Small grains jointing, 90%, 72% 1991, 86% avg.; heading, 25%, 15% 1991, 22% avg. Lemons, grapefruit, oranges, tangerines, mixed vegetables, lettuce harvested central, west. Lettuce planting continued, east.

**ARKANSAS:** Temperatures near normal, thunderstorms middle of week, heaviest northeast. Extremes 24°; 81°. Rainfall 0.22 to 3.80 in.

Wheat good to excellent. Little soil preparation done due to excess soil moisture. Pastures in good condition. Livestock good, beginning to graze early pastures. Northwest reported early budding fruits suffered freeze damage. As much as 75% of the fruit crop damaged. Central areas reported some damage, though not as severe as the northwest sections.

**CALIFORNIA:** Low pressure northern areas early-week. High pressure midweek kept most areas dry above normal temperatures. Low pressure southern state week's end.

Field activities interrupted, light rainfall some areas. Small grains excellent growth, many fields heading. Seeding still underway, higher elevations. Herbicide applications wheat, forages. Winter forage, alfalfa, cut for silage, southern counties. Weevil treatments, alfalfa. Ground preparation, weed control, corn, cotton, garbanzo beans. Corn, cotton planting underway limited areas. Sugar beets irrigated, thinned, weeded. Safflower emerging. Weed control, spraying, pruning orchards, vineyards. Treated thrips, mealybugs, cut worms. Bees moved out of almonds. Cherries, peaches, prunes, apricots, asian pears, apples, pomegranates bloomed. Plums, peaches, nectarines, apricots petal fall, fruit setting. Almonds full leaf, nuts pea size, peaches sizing Butte. Walnuts budded. Kiwifruit leafed out. Budding, grafting continued. Grapes budded, warm weather forcing leaves out. Some grapes Fresno grew 4.00 in. Navel orange 60% picked; picked trees topped, hedged. One third south coast lemons picked to date. Navel oranges exported Japan, New Zealand, The Philippines, Malaysia, Hong Kong, Korea. Artichoke harvest picked up volume statewide. Asparagus packing continued San Joaquin, Imperial Valleys. Broccoli moderate Salinas Watsonville, fairly light Santa Maria, good quality. Harvest continued Westside, Patterson Newman districts. Cauliflower moderate Salinas Watsonville, light Santa Maria, variable quality. Iceberg lettuce harvest started Westside area, good quality. Packing light, seasonally increasing Salinas Watsonville, variable quality. Leaf lettuce harvest started, very light supplies, good quality Salinas Watsonville. Cantaloupe planting started Westside area. Desert area melons looking good, whitefly numbers low. Spinach being harvested central valley. Fall potato movement Tulalake Butte Valley moderate to light. Planting cucumbers, bell peppers, fresh market tomatoes continued. Range, pasture conditions good excellent. Early calving ranches complete, later ones starting. Stock ponds filling. Supplemental feeding, movement light. Stockyard inventories down.

**COLORADO:** Cold front moved into the State on the 17th, lingered through the 21st. West to southwest flow aloft resulted in moderate to heavy snow amounts over the mountains. Precipitation was mainly light, spotty in the lower elevations with 1.00 to 5.00 in. snowfall along the northeast foothills on the 21st. Temperatures 4 to 9° above normal except for the San Luis Valley which was 3° below normal.

Days suitable for fieldwork 2.9. Soil moisture 7% short, 72% adequate, 21% surplus. Spring barley 13% seeded, 15% 1991, 7% avg. Spring wheat 3% seeded, 1% 1991, 7% avg. Oats 7% seeded, 6% 1991, 4% avg. Dry onions 23% seeded, 11% 1991, 5% avg. Winter wheat 7% pastured, 9% 1991, 11% avg. Winter wheat 1% very poor, 3% poor, 14% fair, 63% good, 19% excellent. Pasture, range good. Livestock good. Calving 53% complete, 35% 1991, 42% avg. Lambing 56% complete, 46% 1991, 46% avg.

**FLORIDA:** Highs 60s north, 70s central, near 80° south on 16th. Light freeze northeast 17th morning, upper 30s elsewhere northern areas, 40s central, 50s south. Highs 17th to 18th mostly 70s north, low, mid 80s Peninsula. Highs 19th; 80s statewide; lows 50s to 60s. Rain northwest 18th, 19th 1.00 in. to locally 2.50 in., 0.50 to locally 1.00 in. southwest, showers elsewhere. Dry 20th to 21st. Lows 20th; 40s north, west, 60s south. Lows 40s 21st. Highs 60s west, north, low 80s south on 20th. Highs 21st 60s to 70s. Showers southwest 22nd, rain under 0.50 in. Lows; 40s west, 60s south. Rain 0.25 to 0.50 in., central, south 1.00+ in. on 22nd.

Soil moisture adequate to surplus Panhandle, northern Peninsula; short to adequate central, southern Peninsula. Field preparation active for spring crops. Corn planting, tobacco transplanting active. Sugarcane harvest virtually complete. Citrus trees excellent, full open bloom, abundant new growth. Light rains most areas, irrigation continues. Valencia harvest increasing. Most all young tree fruit ready to be picked. All grapefruit harvest slowing as supplies are low. Honey tangerines almost over for the year. Temple movement, slowing. Caretakers cutting cover crops, hedging harvested groves. Early week cool temperatures warmed by midweek over major vegetable producing areas. Rainfall mostly limited. Locally strong winds tossed crops, burned leaves. Harvest winter crops steady, increasing spring crops. Volume leaders: tomatoes, peppers, potatoes, cabbage, cucumbers, celery, strawberries, snap beans. Also available: carrots, sweet corn, eggplant, escarole, lettuce, radishes, squash. Planting Everglades celery complete. State's pastures mostly fair to good. Pasture 5% poor, 30% fair, 60% good, 5% excellent. Moisture levels short to surplus. State's cattle herds fair to excellent.

**GEORGIA:** Rain 3 to 5 days north, 2 to 4 central to south. Rainfall 1.00 to 2.00 in., but over 4.00 in. northwest. Temperatures 3 to 6° below normal. Highs low 70s north, low 80s south. Coldest low to middle 20s northeast, around 30 central to middle 30s south.

Days suitable for fieldwork 3.3. Soil moisture 50% adequate, 50% surplus. Corn 1% very poor, 64% fair, 35% good; 26% planted, 16% 1991, 33% avg.; Cool nighttime temperatures stressing crop. Scattered frost burned leaves in some fields. Germination slowed. Tobacco 58% fair, 42% good; 6% transplanted, 7% 1991, 16% avg. Wheat 29% fair, 71% good; 69% jointing, 83% 1991, 77% avg.; 11% boot, 26% 1991, 25% avg.; Development slowed by cool temperatures. Other small grains fair to mostly good. Onions 53% fair, 47% good; Disease pressure continues, light frost slight damage.

Watermelons 31% poor, 65% fair, 4% good; 9% planted, 11% 1991, 34% avg. Warm weather needed. Other vegetables 18% poor, 42% fair, 40% good; Cool nighttime temperatures, scattered frost damaging tender crops. Wet fields delaying planting. Apples 2% fair, 98% good; 12% blooming, 20% 1991, 13% avg.; Very little damage from freezing temperatures. Peaches 1% very poor, 1% poor, 32% fair, 66% good; 92% blooming, 59% 1991, 87% avg.; Freeze damage reported central and north extent of damage being assessed. Pastures fair to good. Cattle fair to mostly good. Hogs good. Activities: Land preparation, planting when fields support machinery, applying fertilizer, lime, herbicides to hay fields, pastures.

**HAWAII:** Cool temperatures; passing showers prevailed during the week, generally beneficial to agriculture. Some crop growing areas had appreciable amounts of rainfall while other areas received only light showers. More rainfall is needed to restore soil moisture supplies; irrigation reservoir levels depleted after the extended dry period. Temperatures varied 50s to mid 80s. Rainfall none to 1.60 in.

Days suitable for fieldwork 7.0. Cool weather continued to hamper ripening of orchard crops. Low rainfall continued to affect papaya plantings, a fruit set gap has been observed in some orchards. Papaya production is declining. Sugar, pineapple planting harvesting operations normal. New crop ginger root planting underway some areas.

**IDAHO:** Precipitation fell in the north, east with Orofino receiving most with 0.68 in. Temperatures 3 to 8° above normal.

Soil moisture varied from short to adequate across State. Farmers were plowing, disking, planting grains, sugarbeets. Sorting, shipping of seed potatoes had begun. Hay, roughage supplies adequate to surplus. Livestock reported in good to excellent condition.

**ILLINOIS:** Winter-like weather occurred across much of State for the first week of spring, producing as much as 10 in. of snow in the far north. Highs 40 to 50°, which was 2 to 6° colder than normal. Lows ranged from the lower 30s to the mid 20s, which was about normal. Precipitation 0.80 to 1.60 in., which was 0.15 to 0.60 in. wetter than normal across the State.

**INDIANA:** Temperatures 0 to 7° below normal. Highs low 40s to mid 50s. Lows mid teens to upper 30s, far south. Precipitation, 0.75 to 1.50 in. Snow, ice north.

Wet fields limited fieldwork. Main activities: plowing, chiseling, topdressing wheat, hauling manure, calving. Other activities: Machinery repair, fence repair, building maintenance, purchasing supplies, tax preparation, care of livestock. Winter wheat mostly poor to good. Hay supplies tight. Livestock mostly good.

**IOWA:** Temperatures 0 to 3° above normal. Extremes 11°, northeast 16th; 69° extreme west central 22th. Precipitation trace northwest to 1.72 in southwest. Rainfall 0.31 in., normal 0.53 in.

Oat seeding, seedbed preparation just starting across the State, many fields still too muddy. Farmers busy with machinery repair, calving.

**KANSAS:** Temperatures 3 to 7° above normal. Moderate to heavy rainfall eastern areas; light to moderate central; trace to light west.

Days suitable for fieldwork 3.0. Topsoil 16% short, 66% adequate, 18% surplus. Subsoil 42% short, 56% adequate, 2% surplus. Wheat jointing, at 15%, is ahead of schedule. Freeze damage 9th, 10th heaviest southern areas where many stands jointing; little damage north. Spring seedbed preparations continue where field conditions permit. Oat, barley planting making good progress. Lambing, calving good progress; few problems. Cattle continue to move off wheat pasture into feedlots, sale barns, still significant numbers on wheat.

**KENTUCKY:** Mild, wet weather. Temperatures slightly above normal western areas, slightly below normal east. Warmest temperatures 17th, 18th with highs 60s and 70s. Precipitation well above normal many areas, averaging 1.50 in. to more than 2.00 in. Most rain fell 18th, 19th.

Topsoil moisture generally ample. Wet soils, cool temperatures limited field activity. Winter grains, early season grasses show burning from freezing temperatures. Livestock feed supplies adequate.

**LOUISIANA:** Temperatures 1 to 3° above normal. Extremes 33°; 83°. Rainfall 0.51 in. southwest to 1.35 in. south central.

Days suitable for fieldwork 3.8. Soil moisture supplies: 51% adequate, 49% surplus. Corn 35% planted, 46% 1991, 22% avg.; 15% emerged, 14% 1991, 6% avg. Rice 11% planted, 8% 1991, 6% avg.; 5% emerged, 3% 1991, 3% avg. Blackbirds, ducks were causing serious damage to newly planted rice fields. Spring plowing 26% complete, 27% 1991, 23% avg. Sugarcane 31% fair, 59% good, 10% excellent. Off-barring, shaving, spraying herbicides, fertilizing, active. Wheat 11% poor, 48% fair, 41% good; 13% headed, 17% 1991, 11% avg. Little disease present. Livestock 2% poor, 37% fair, 58% good, 3% excellent. Pasture 12% very poor, 2% poor, 8% fair, 74% good, 4% excellent. Vegetables 3% very poor, 19% poor, 62% fair, 16% good.

**MARYLAND & DELAWARE:** MARYLAND: Precipitation 0.76 in. Temperature 39.5°, normal 44.7°. Extremes 7°; 70°.

Activities: Planting peas; buying seed, fertilizer; active preparation for spring planting; tune up, repair machinery; preparing to apply Nitrogen to small grain; evaluating crop insurance costs; tax preparation; marketing and caring for livestock; checking on newborn livestock; cutting firewood.

DELAWARE: Precipitation 0.89 in. Temperature 35.7°, normal 45.3°. Extremes 19°; 58°.

Activities: Planting peas; marketing, caring for livestock; buying seed, fertilizer; active preparation for spring planting; tune-up, repair machinery; preparing to apply Nitrogen to small grain; evaluating crop insurance costs; tax preparation; marketing, caring for livestock; checking on newborn livestock; cutting firewood.

**MICHIGAN:** Temperatures 3 to 12° below normal. Extremes -7°; 52°. Precipitation none to 1.11 in. across the State. Cold temperatures, dry, sunny days were common last week, weekend was a different story. Night of 21st a blanket of snow fell on State bringing winter-like weather to the first few days of spring.

Livestock are in good condition, feed stocks are in good supply. Lambing, calving are picking up. Major activities included: Spreading manure; pruning; cleaning up orchards; getting ready for spring.

**MINNESOTA:** Temperatures 4° above normal to 3° below normal for the state. Extremes -7°; 58°.

Precipitation none to 0.29 in. for the State, 0.11 to 3.37 in. below normal. Greatest weekly total 0.44 in. at Browns Valley. Snowfall 1 to 5 in. for the southern half of the State, a trace or less elsewhere. Localized areas received up to 15 in. of snow on 21st. Snow depth at weekend 6 to 8 in. for the northeast, north central, none to 2 in. elsewhere.

**MISSISSIPPI:** Temperatures 55°, 0.9 below normal. Extremes 23°, 85°. State averaged 1.25 in. of rainfall, 0.14 below normal, however the southeast part of the State received above-normal precipitation. Soil temperature 56°.

Days suitable for fieldwork 2.2, 4.3 1991, 3.3 avg. Soil moisture 40% adequate, 47% surplus, 13% excessive. Corn 16% planted, 19% 1991, 13% 5 year avg.; 4% emerged. Watermelons 3% planted, 16% 1991, 11% 5 year avg. Wheat 55% jointing, 50% 1991, 57% 5 year avg.; 3% poor, 38% fair, 56% good, 3% excellent. Hay supply 10% short, 71% adequate, 19% surplus. Feed grain 16% short, 78% adequate, 6% surplus. Livestock 29% fair, 62% good, 9% excellent. Pasture 94% of normal. Activities: Planting corn, preparing land, equipment for other spring plantings, fertilizing pasture, feeding cattle.

**MISSOURI:** Temperatures normal to 3° above normal. Precipitation 1.36 in., ranging from about 1.00 in. southwest, south central, to over 2.00 in., northwest.

Wet weather interrupted early fieldwork. Several warm, dry days needed before tillage, planting become general. Some wheat fields still showing discoloration from cold weather of 2 weeks ago.

**MONTANA:** Some precipitation over the State with over 1.00 in. in south central and western divisions. Temperatures above normal early, near normal at end of week.

Winter wheat 2% very poor, 13% poor, 38% fair, 42% good, 5% excellent. Winter freeze, drought damage to winter wheat 29% none, 53% light, 16% moderate and 2% heavy. Winter wheat 17% still dormant, 63% greening, 20% green and growing. Army cutworm activity is showing in winter wheat. Spring field tillage work 65% none started, 19% just started, 16% well underway. Cattle, calves receiving supplemental feed at 95%, sheep, lambs 90%. Calving 47% complete, lambing 41% complete. Very mild weather favors livestock care, reduces feed requirements.

**NEBRASKA:** Temperatures near normal in the Panhandle to 6° above normal in the northeast. Scattered light amounts of precipitation in the west while east central received up to 0.70 in., parts of the southeast received over 2.00 in.

**NEVADA:** Light showers, widely scattered thunderstorms common across the State during the week. Temperatures averaged 4 degrees above normal statewide. Extremes 17°; 78°. Precipitation reported across the State, with northwest areas receiving the most with an average of 0.25.

Scattered showers slowed fieldwork in some areas. Crop producers remain concerned about irrigation water allocations for the current growing season. Preparations for spring planting continue. Calving, lambing continue, aided by mild weather. Major activities: Planting preparation, equipment maintenance, care, feeding of livestock.

**NEW ENGLAND:** Precipitation none to 0.80 in. north; none to 0.65 in. south. Temperatures low

teens to mid-20s north, low 20s to low 30s south. Extreme maximums low 30s north to high 40s south; extreme minimums -9° north to mid-teens south.

Farm activities: General repairs, maintenance, tending livestock, moving crops from storage. Cold weather has delayed maple syrup harvest.

**NEW JERSEY:** Temperatures much below normal. Extremes 9°; 56°. Rainfall 1.16 in. north, 1.17 in. central; 1.22 in. south. Heaviest 24 hour total 1.03 in. on 18th, 19th. Estimated soil moisture, in percent field capacity, averaged 100% north, 100% central, 100% south. Four inch soil temperatures averaged 35° north, 37° central, 39° south.

Limited planting began two weeks ago. Recent cold snap has since interrupted continued planting. Any crops showing growth could be adversely affected by the low temperatures.

**NEW MEXICO:** Temperatures 1 to 2° warmer than usual for much of the State. The eastern plains continued at 3 to 5° above normal. Precipitation was limited to light amounts over the northwestern third of the State, the southern desert, and the southern central highlands.

Days suitable for fieldwork 6.5. Soil moisture 9% short, 91% adequate. Crop conditions: Alfalfa, 6% poor, 17% fair, 77% good. Irrigated wheat, 13% fair, 80% good 7% excellent with 49% being grazed. Dryland wheat 33% fair, 67% good with 51% being grazed. Onions, lettuce in good condition with a few onion transplants still going in. Cattle, sheep in fair to good. Range, pasture condition 91% of normal.

**NEW YORK:** Unseasonably cold, dry week. Departures normal 8 to 15° below average. Extremes -18°; 50°. Precipitation was also well below usual levels. Only the Coastal Division was close to normal with 81% of its weekly allotment. Central part of the state was the driest with some areas receiving only 8% of normal. Only significant storm occurred on the 19th most of its effects were confined to extreme south.

Activities: Caring for livestock, moving crops from storage, attending meetings, winter chores, planning for upcoming season. Maple producers waiting for warmer days for good maple runs.

**NORTH CAROLINA:** Warm temperatures; scattered thunderstorms. Extremes 13°; 78°. Rainfall at all stations. Precipitation 0.13 to 2.25.

Days suitable for fieldwork 4.3. Soil moisture 10% short, 76% adequate, 14% surplus. Crop condition: Wheat 8% fair, 88% good, 4% excellent; Oats 6% fair, 92% good, 2% excellent; barley 8% fair, 90% good, 2% excellent; Rye 9% fair, 89% good, 2% excellent; Pasture 3% poor, 29% fair, 68% good; tobacco plant beds 27% fair, 71% good, 2% excellent; Irish potatoes 5% poor, 17% fair, 78% good. Irish potato planting 76%, 61% 1991, 55% avg; Cabbage Planting 70%, 49% 1991, 45% avg. Hay, roughage supplies 94% adequate, 6% surplus. Feed grain supplies 5% short, 92% adequate, 3% surplus. Livestock feed from pastures 41%. Activities: Land preparation; tending tobacco plant beds; topdressing small grains and pastures; planting Irish potatoes, cabbage and corn; tending livestock; pruning fruit trees; equipment repair; maintenance.

**NORTH DAKOTA:** Temperatures 3 to 9° above normal. Extremes 0° northeast; 66° southwest. Precipitation none northeast, 0.32 in. southeast.

Alfalfa, winter wheat, rye in good condition. Livestock in good to excellent condition; calving and lambing well underway; no problems reported; feed supplies adequate to surplus. Livestock

marketings normal, Grain marketings normal. Farmers getting ready for spring work.

**OHIO:** Cold damp weather prevailed during the week restricting activities around the farm and increasing disease potential in livestock. Highs averaged from mid 30s northeast to near 50° south; mean lows between 18 to 31°. Temperatures 28 to 40°, some 3 to 8° below normal. Heavier than normal precipitation fell over most of northern areas, lifting soil moisture levels. Snow cover in northern areas was 2 to 6 in. by weekend. Precipitation fell primarily in liquid form over central, southern areas and was 0.30 to 0.70 in. above normal.

Oats planted in early March have not germinated due to recent cold snap. Wheat fields are showing signs of stress due to fertilizer injury, cold weather.

**OKLAHOMA:** Temperatures normal south central to 5° above normal northeast. Precipitation 0.01 in Panhandle to 1.12 in. east central.

Days suitable for fieldwork 4.8. Topsoil 20% short, 64% adequate, 16% surplus. Subsoil 100% adequate. Wheat 33% fair, 63% good, 4% excellent; 68% jointing, 24% 1991, 24% avg. Some freeze damage reported. Crop insect activity light to moderate. Corn plantings continue southeast. Cattle good; marketings average; prices mixed.

**OREGON:** Temperatures 5° above normal, statewide. Coastal areas 5 to 7° above normal, western interior 4 to 6° above normal, north-eastern, north central areas 4 to 5° above, elsewhere 2 to 3° above normal. Light precipitation statewide. Western areas 0.25 to 0.50 in., northeastern areas 0.50 in., southeastern areas 0.25 in.

Soil moisture, mostly adequate, western areas; short to adequate, eastern areas. Winter wheat condition, fair to good. Spring wheat planting, grain crop chemical applications underway. Fruit, nut trees blooming. Frost prevention practices in place, statewide for potential frosts. Strawberry, caneberry field preparation and planting continue. Cranberry development ahead of normal also. Livestock condition mostly good. Pastures greening statewide, still dry, eastern areas. Spring calving, lambing winding down, excellent conditions. Range, pasture, fair to good, eastern areas; good to excellent, western areas.

**PENNSYLVANIA:** Colder than normal with normal precipitation. Temperature 27°, 7° below normal. Extremes 0°; 56°. Precipitation 0.78 in., 0.01 in. above normal.

Activities: Repairing fence; hauling manure; maintaining machinery; caring for livestock.

**PUERTO RICO:** Island rainfall 0.66 in. was 0.06 in. above normal. Highest total 3.45 in. at Pico del Este Luquillo, 2.17 in. at Isabela Aes. Divisional temperatures 75° coast, 71° interior. Mean station extremes 62° at Pico del Este Luquillo to 79° at San Juan. Extremes 48°; 92°.

**SOUTH CAROLINA:** Temperatures 2 to 4° below normal statewide. Rainfall 0.70 in. statewide.

Farm activities: Peach frost damage light to spotty; tobacco bed fair; corn planting underway; small grain good; livestock good.

**SOUTH DAKOTA:** Average temperature for the State was 4° above normal. Extremes -1°; 69°. Precipitation across the State was a mixture of rain and snow. The northeast received 1 to 6

in. of snow which amounted to 0.10 to 0.50 in. of liquid. Precipitation in the Black Hills came in the form of rain to snow with amounts of 0.15 to 0.90 of an inch. The rest of the state received between a trace to 0.20 of an inch of precipitation. Maximum precipitation 0.88 in.

**TENNESSEE:** Widespread rainfall at midweek, cold weather followed. Rainfall greater than normal statewide, except in the mid-section which received below normal rainfall. Temperatures varied widely statewide. Coolest readings recorded on the Cumberland Plateau, averaged 6° below normal. Highs reached the mid 70s in the mid-section and some western counties. Lows averaged from the low 20s to upper 30s. Precipitation in western and eastern sections averaged well above normal. Precipitation 1.10 to 2.45 in. west.

Soil moisture mostly adequate statewide. Winter wheat rated good to excellent condition. Pruning of fruit trees continues. Land preparation slowed by rain. Tobacco bed preparation slowed by inclement weather. Hay, roughage supplies adequate. Livestock rated good to excellent.

**TEXAS:** Weather disturbance produced rainfall over much of State 17th to 18th with most significant amounts in eastern half of State. Dry weather followed under high pressure 19th to 20th. Another disturbance produce mostly light rain in eastern third of State 21st with dry, colder air 22nd. Rainfall near or below normal for all districts. Temperatures warm with all districts reporting near or above normal readings for week. High Plains, East Texas, Low Valley all 5° above normal.

**Crops:** Small grains improved with warm temperatures. Many producers sprayed for green bugs, aphids. Early planted wheat fields began to head, while oats began to boot. Leaf rust present in many fields, may cause possible yield reduction. Statewide wheat condition: 84% normal compared with 66% 1991. Corn, sorghum planting increased as conditions allowed. In Blacklands wet conditions delayed planting activities. More dry weather needed for planting to continue. Some plants emerged in South Texas. Cotton planting continued as warm, drying conditions improved. Some planting increased in Coastal Bend area with sunshine, windy conditions. Producers on Plains continued herbicide applications, some producers began making seed beds. Rice planting began in Upper Coast. Wet conditions delayed most field activities.

**Commercial Vegetables:** Rio Grande Valley, melon planting increased as drying conditions improved. Harvesting of carrots, cabbage continued. High Plains, pre water, land preparation continued. Potato planting continued. Trans Pecos, chile, melon planting in some areas. Peaches being sprayed for insect damage. Some trees have heavy fruit load following bloom.

**Range and Livestock:** Range forage quality increased due to spring growth. Pastures furnished additional grazing for livestock. Weight gains increased, supplemental feeding slowed. Preparation for shearing, lamb marketing.

**UTAH:** Maximum temperatures 6° above normal; minimum temperatures 5° above normal. Precipitation moderate in north central division, light elsewhere, none in Southeast or Uintah Basin.

Major farm activities: Calving, lambing, planting onions, small grains.

(Continued to back cover)

## International Weather and Crop Summary HIGHLIGHTS

March 15 - 21, 1992

**FORMER USSR:** Widespread precipitation covers dormant winter grains.

**EUROPE:** Moisture reserves diminish in the southwest.

**NORTHWESTERN AFRICA:** Drought further intensifies in Morocco. Dry weather returns to winter grains in Algeria and Tunisia.

**SOUTH AFRICA:** Showers come too late for maturing crops.

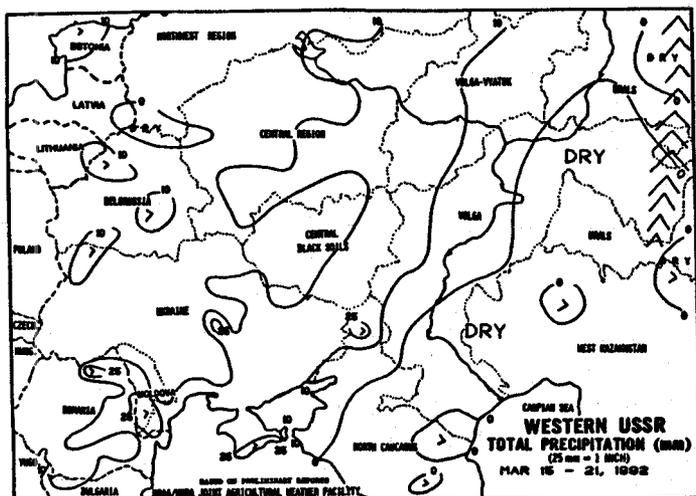
**SOUTH ASIA:** Dry weather favors crop growth and maturation. Heat stress continues in central and southern India.

**EASTERN ASIA:** Soil moisture is limited for North China Plain winter wheat.

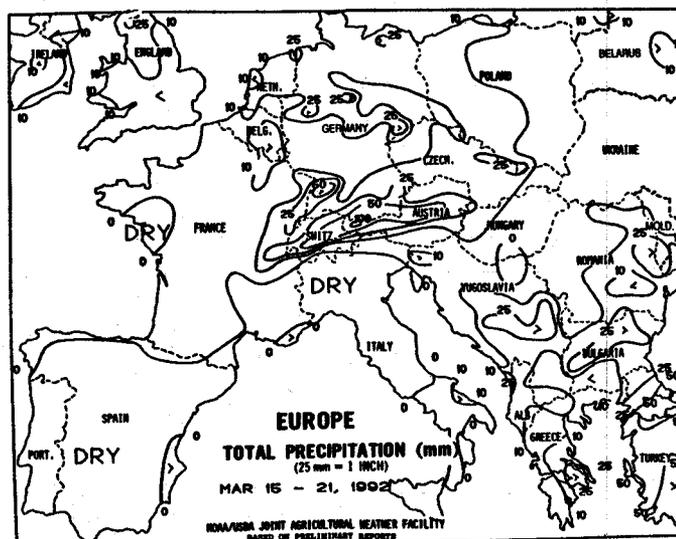
**SOUTHEAST ASIA:** Beneficial rain covers Indonesia.

**AUSTRALIA:** Continuing dryness depletes soil moisture for filling summer crops, but aids early maturing crops.

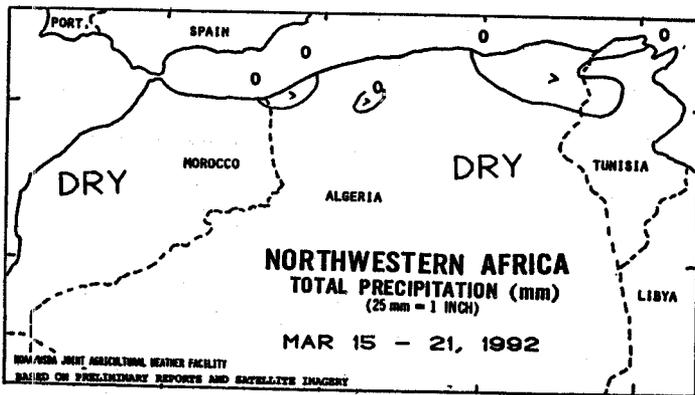
**SOUTH AMERICA:** Rain helps late-planted soybeans across the region, but slows early harvesting.



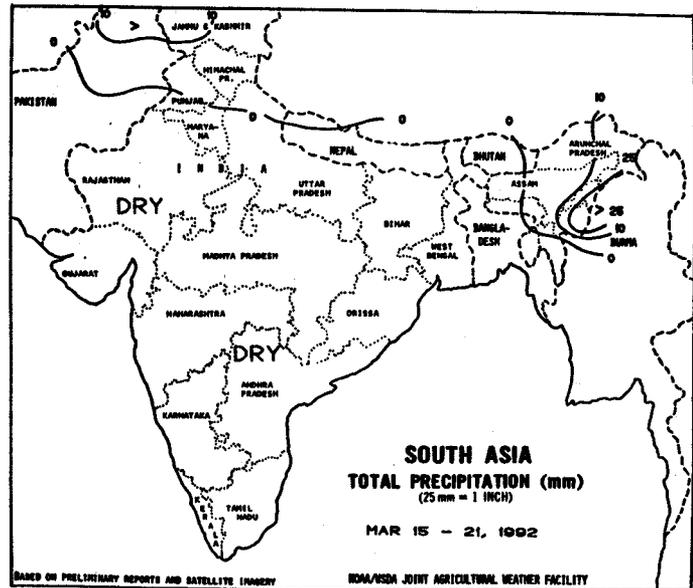
**FORMER USSR:** Unsettled weather prevailed over most winter grain areas, bringing widespread mixed precipitation. Greatest amounts of moisture (10-33mm) fell in a narrow band that stretched east from Moldova, through eastern Ukraine, and then north through eastern Black Soils Region, into Central Region and Volga Vyatsk. Although most winter grains remained dormant, average weekly temperatures approaching 9 degrees Celsius (C) in the western North Caucasus may have promoted some greening of wheat. While the highest weekly temperatures reached 19 degrees C in the western North Caucasus, temperatures remained below 5 degrees C in the eastern Central Region, Volga Vyatsk, and upper Volga, where snow cover remained moderate to deep.



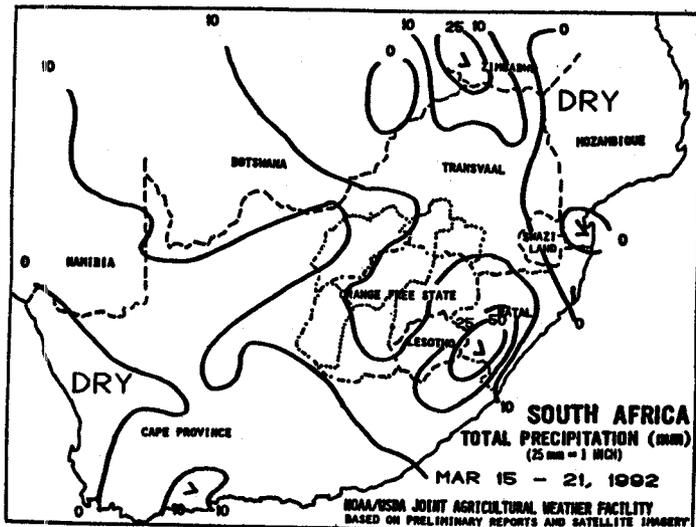
**EUROPE:** Dry weather persisted from the Iberian Peninsula to Italy's Po Valley, with weekly high temperatures averaging in the upper teens to low 20's C, further aggravating low moisture supplies for spring growth. Rain is also urgently needed in France and southern England, where only light showers (generally 5mm or less) and temperatures averaging 2-4 degrees C above normal increased the soil moisture deficiency. With the spring growing season just beginning, timely rainfall will be essential in the west to ensure favorable yield prospects. Additional rain (10-25mm or more) this past week across northern and central Europe improved moisture reserves for winter grain just beginning to break dormancy in the northeast. Beneficial showers (10-35mm) in eastern Romania, Bulgaria, and southern portions of Yugoslavia also helped early spring growth.



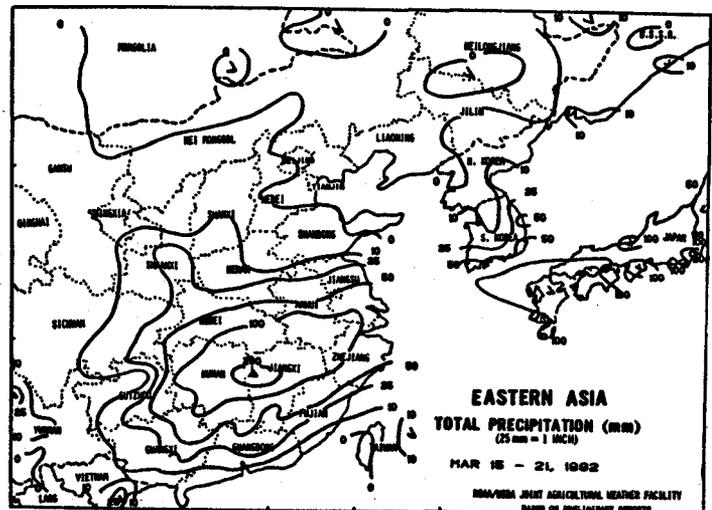
**NORTHWESTERN AFRICA:** Little, if any, precipitation covered reproductive winter grains in Morocco, Algeria, and Tunisia. Drought conditions in Morocco continued to intensify. Drought severity is greatest in southern Morocco, where moisture accumulations since November 1, 1991, are about 20 percent of normal (52mm). Moisture accumulations in northern Morocco are about 30 percent of normal (113mm). While the persistent dryness has negatively affected Moroccan wheat yields, its effect has been most severe on barley grown mainly in the south. Further east, dry weather returned to winter grain areas in eastern Algeria and Tunisia, following last week's soaking rains.



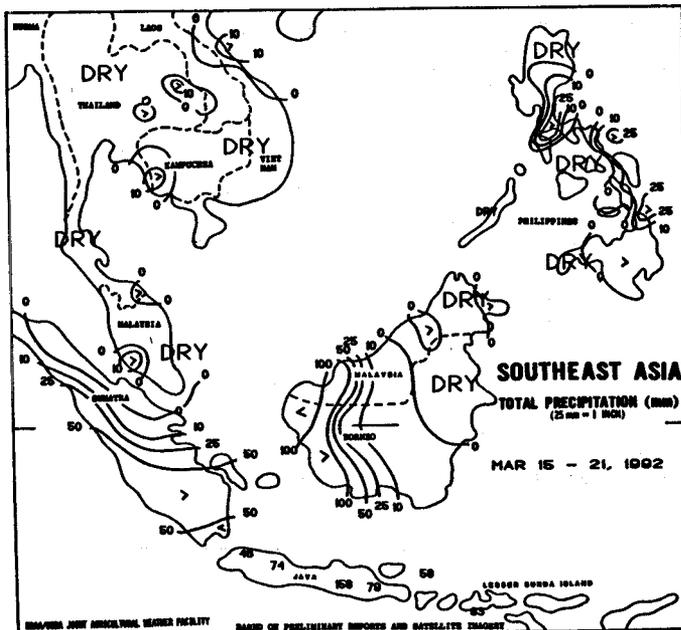
**SOUTH ASIA:** Seasonably dry weather dominated the region, favoring growth of immature winter grains and oilseeds and aiding the rice harvest. High temperatures of 38-40 degrees C were common in central and southern India, likely causing some livestock stress. Temperatures in central and southern India usually peak in April and May, prior to the onset of the southwest monsoon.



**SOUTH AFRICA:** Scattered, light to moderate showers (5-30mm) swept across corn regions of Orange Free State and Transvaal. Heavier rain (25-65mm) fell over crop areas of western Natal and eastern Cape Province, missing most sugarcane regions. At this point in the season, only late planted summer crops not irreversibly damaged by the prolonged drought can benefit from additional rain. Much more rain is needed across the region for winter wheat planting.



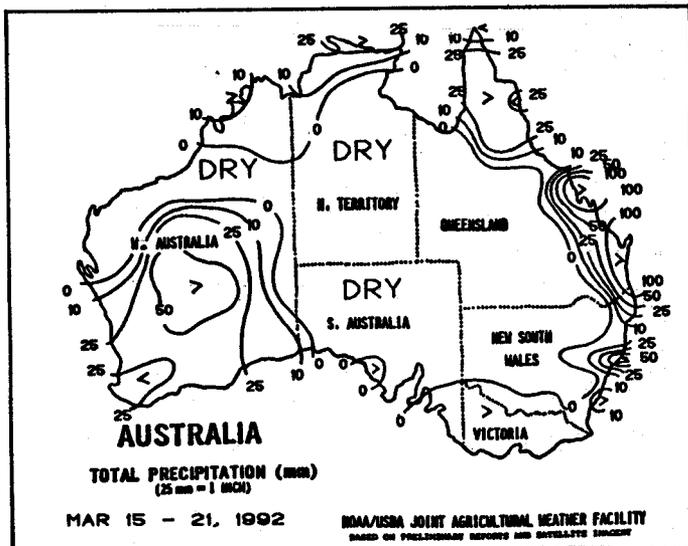
**EASTERN ASIA:** Rainfall was light (10mm or less) across the North China Plain, where soil moisture is limited for winter wheat growth. Seasonal temperatures promoted normal wheat development, but moisture is needed to improve yield prospects. Persistent heavy rain (75-150mm, with local accumulations exceeding 200mm) south of the Yangtze Valley kept irrigation supplies high and caused local flooding. Abundant moisture exists for early rice across southern China.



**SOUTHEAST ASIA:** Variable, but beneficial rain (25-150mm) continued over Java's rice areas, as well as southern Sumatra and crop areas of eastern Malaysia. However, most oil palm regions of western Malaysia reported no rain. The dryness extended northward through Indochina with highs exceeding 35 degrees C in Thailand's rainfed rice areas. Light, pre-monsoon showers that typically begin in Thailand during April should provide planting moisture for main season corn and rice and offset seasonably high evaporative losses. In the Philippines, light rain (25mm or less) fell in east-coastal rice areas, providing only local relief from this season's moisture deficits.



**SOUTH AMERICA:** Scattered showers (20-113mm) fell across central Argentina, causing minor corn and sorghum harvesting delays, but favoring late-planted soybeans. Dry conditions favored early mature cotton in the north. In southern Brazil, widespread, locally heavy rain (50-175mm) benefited late filling soybeans, but caused some local flooding in northern Parana. Conditions are generally favorable for most soybeans, which are probably in the late filling to early maturity stages. Additional rainfall will have little or no effect on Brazilian soybeans. Weekly temperatures averaged 2-4 degrees C above normal across the major crop areas of Argentina and southern Brazil.



**AUSTRALIA:** Little or no rain fell across eastern Australia, stressing filling sorghum and cotton but favoring early maturing crops. Continued dry weather will favor boll-opening cotton, which usually begins during late March, and maturing sorghum. Tropical cyclone Fran brushed the Queensland coast near Brisbane, bringing heavy to locally excessive rains (50-195mm) that aided sugarcane. The storm weakened as it neared the coast, with sustained winds of 35-45 knots (40-52 mph), causing little or no damage to sugarcane. Soaking moderate rains (50-80mm) replenished soil moisture supplies in Western Australia. Weekly temperatures averaged near normal across the major eastern crop areas.

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(Continued from p. 12)

**WASHINGTON:** Temperatures 1 to 6° above normal west; 3° below to 8° above normal east. Precipitation 0.08 to 1.33 in. west; 0.01 to 0.24 in. east.

Days suitable for fieldwork 5.4. Soil moisture 8% short, 90% adequate, 2% surplus. Hay, other roughage 6% short, 81% adequate, 13% surplus. Range, pasture 10% poor, 30% fair, 60% good. Winter wheat 12% fair, 88% good. Winter barley 6% fair, 94% good. Temperatures cooled, but unseasonably warm conditions continued. Frost protection was necessary for soft fruit in some central locations. Bud development moving very rapidly; 7 to 14 days ahead of normal. Delay dormant sprays applied. Spring seeding of grain crops continued even with rain interruptions early in week. Early potato planting central areas. Winter wheat stands greening, but lag behind normal some eastern areas. Calving progressed; livestock movement to spring ranges some central areas.

**WEST VIRGINIA:** Temperature 38°. Extremes 7°; 69°. Precipitation 1.54 in.

Days suitable for fieldwork 1.9. Soil moisture, 67% adequate, 33% surplus. Wheat, good. Barley, good. Hay feed supplies, adequate. Other feed supplies, adequate. Cattle, good. Sheep, good. Cows calved, 67%. Sheep lambed, 71%. Farm activities: General maintenance, plowing, fencing, calving, lambing.

**WISCONSIN:** Temperature 27°. Extremes -10°; 52°. Temperatures averaged near normal. Rain on 16th across the southern half of State; ranged from 0.30 to 0.50 in. Light snow on 19th with less than 1 in. falling. On the night of 20th, snow storm brought more than 6.00 in. of snow to northwestern part of the State. By the night of 21st, there was 4 to 8 in. of snow across southern areas. Heaviest snow in central, west central areas where up to 13 in. fell.

Late March snow depth 1.1 in.; 0.5 in. 1991; 4.2 in. 30-year avg. Frost depth 4.3 in.; 7.9 in. 1991; 10.7 in. avg.

**WYOMING:** Temperatures throughout State about 7° above normal. Precipitation was above normal with the exception of the west central region and the southeast corner of the State.

Days suitable for fieldwork 3.3. Topsoil 7% short, 86% adequate, 7% surplus. Subsoil 54% short, 44% adequate, 2% surplus. Spring wheat 14% planted. Oats 3% planted. Barley 21% planted. Sugarbeet planting starting. Winter wheat 2% poor, 33% fair, 65% good. Wind, freeze damage mostly light to moderate. Alfalfa hay prospects mostly good. Livestock good to excellent. Spring calves born 44%. Farm flock ewes lambed 44%; shorn 72%. Range flock ewes lambed 12%; shorn 41%. Calf, lamb death losses light to normal. Ranges, pastures good to excellent.

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