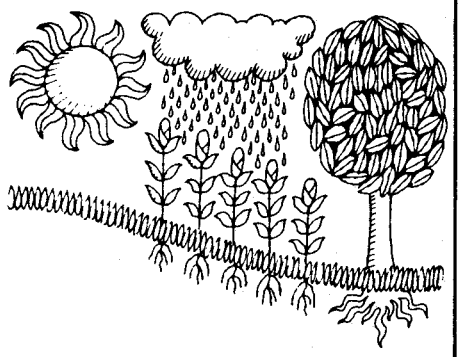

WEEKLY WEATHER AND CROP BULLETIN

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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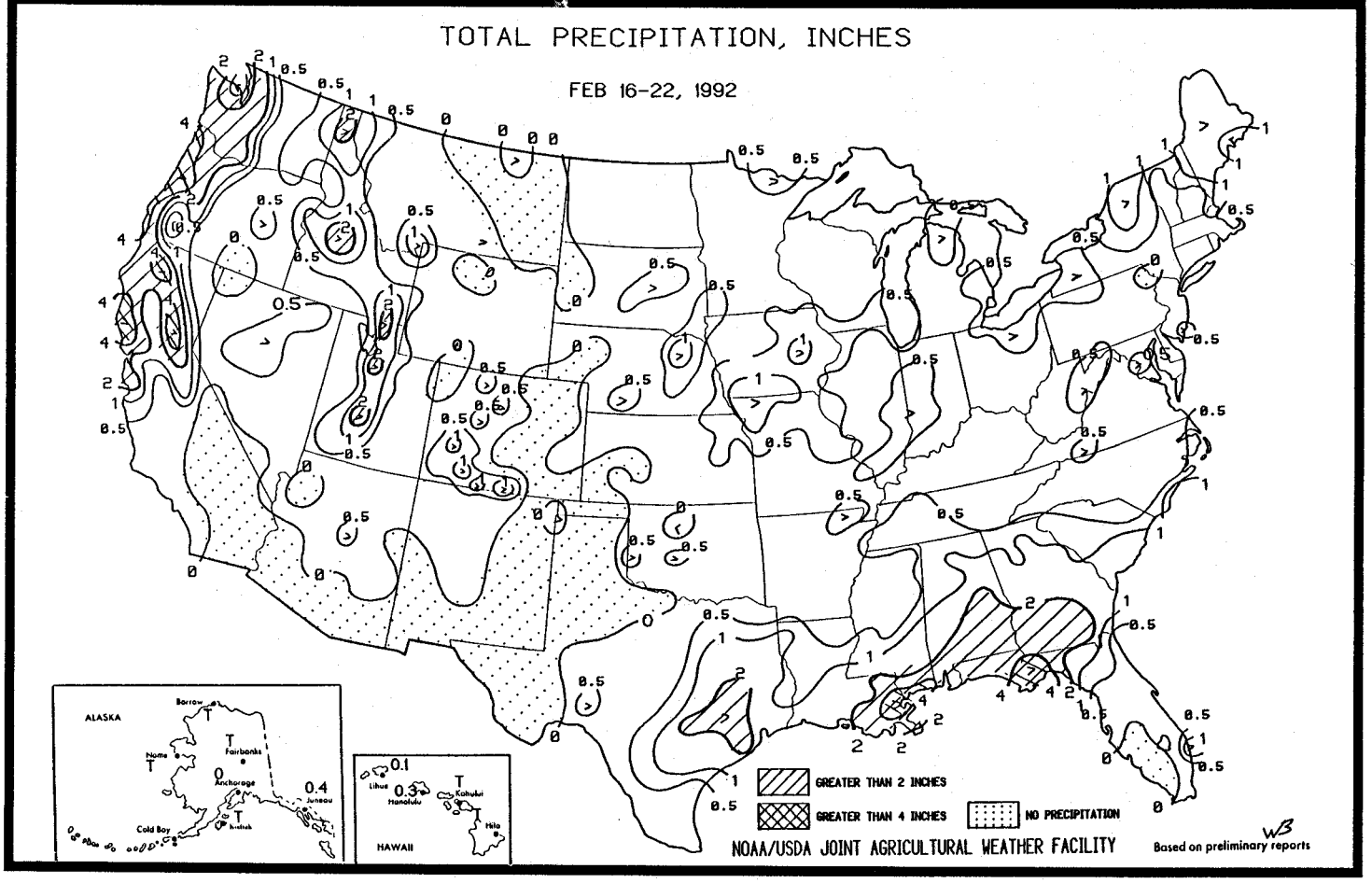

HIGHLIGHTS

February 16 - 22, 1992

Storms entered the **West coast** farther north than last week, spreading their heavy precipitation into the **Pacific Northwest** and the **northern and central Rockies.** Farther east, heavier-than-normal rainfall soaked the **central Gulf coast** for the seventh week in a row. Significant rain and snow also fell in an area from the **western Corn Belt** to **Maine.** Temperatures were well above normal virtually nationwide. Early in the week, a strong winter storm marched from **Utah** to the **Great Lakes,** dumping up to 5 inches of snow in the **upper Mississippi Valley.** Farther south, thunderstorm rainfall topped 4 inches in **New Orleans, LA,** and 6 inches in **Apalachicola, FL.** The storm also produced rare February thunderstorms in the **eastern Corn Belt,** one of which spawned a tornado near **Van Wert, OH.** At midweek, winds and temperatures increased in the **Northwest** in advance of an approaching

(Continued to p. 7)

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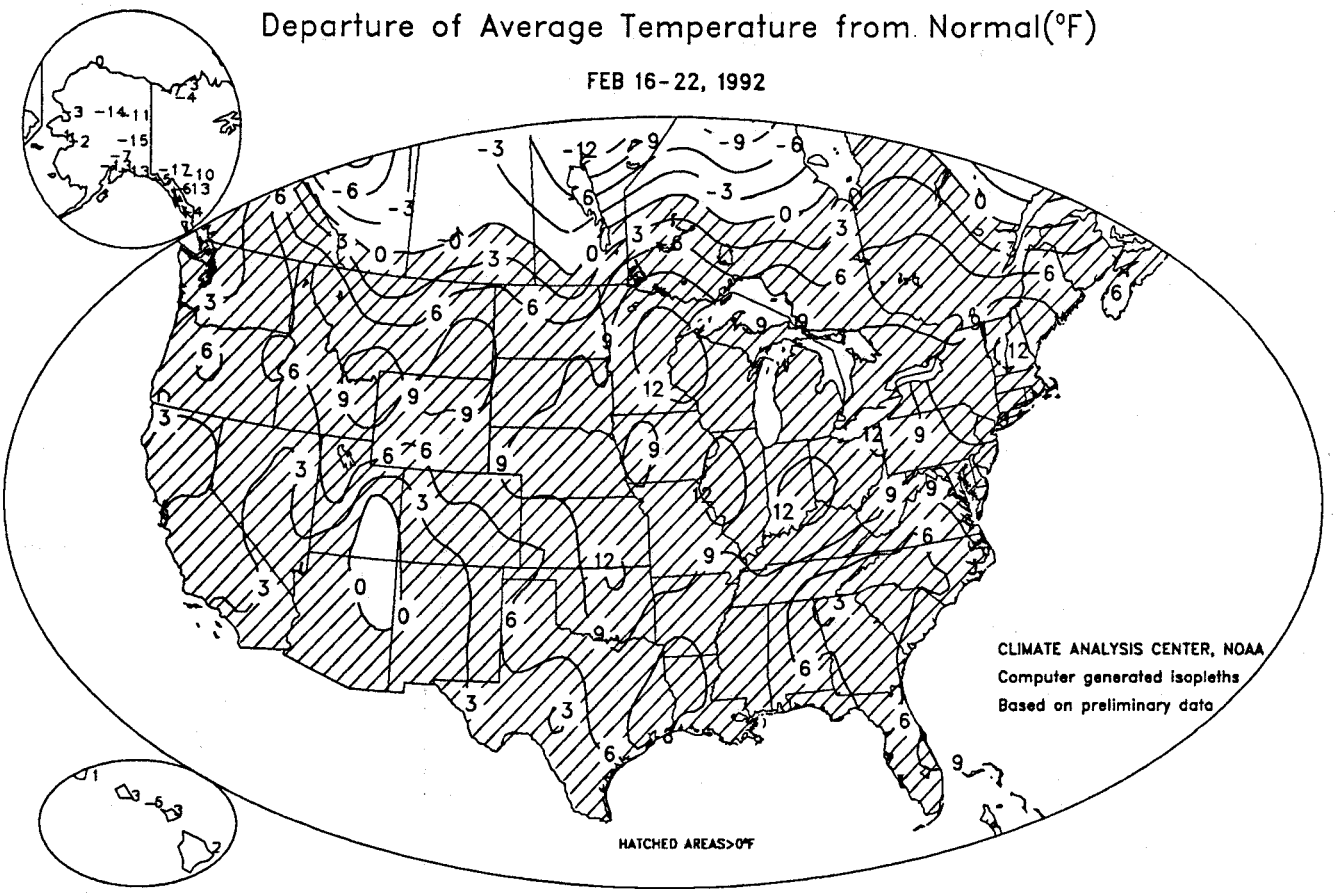
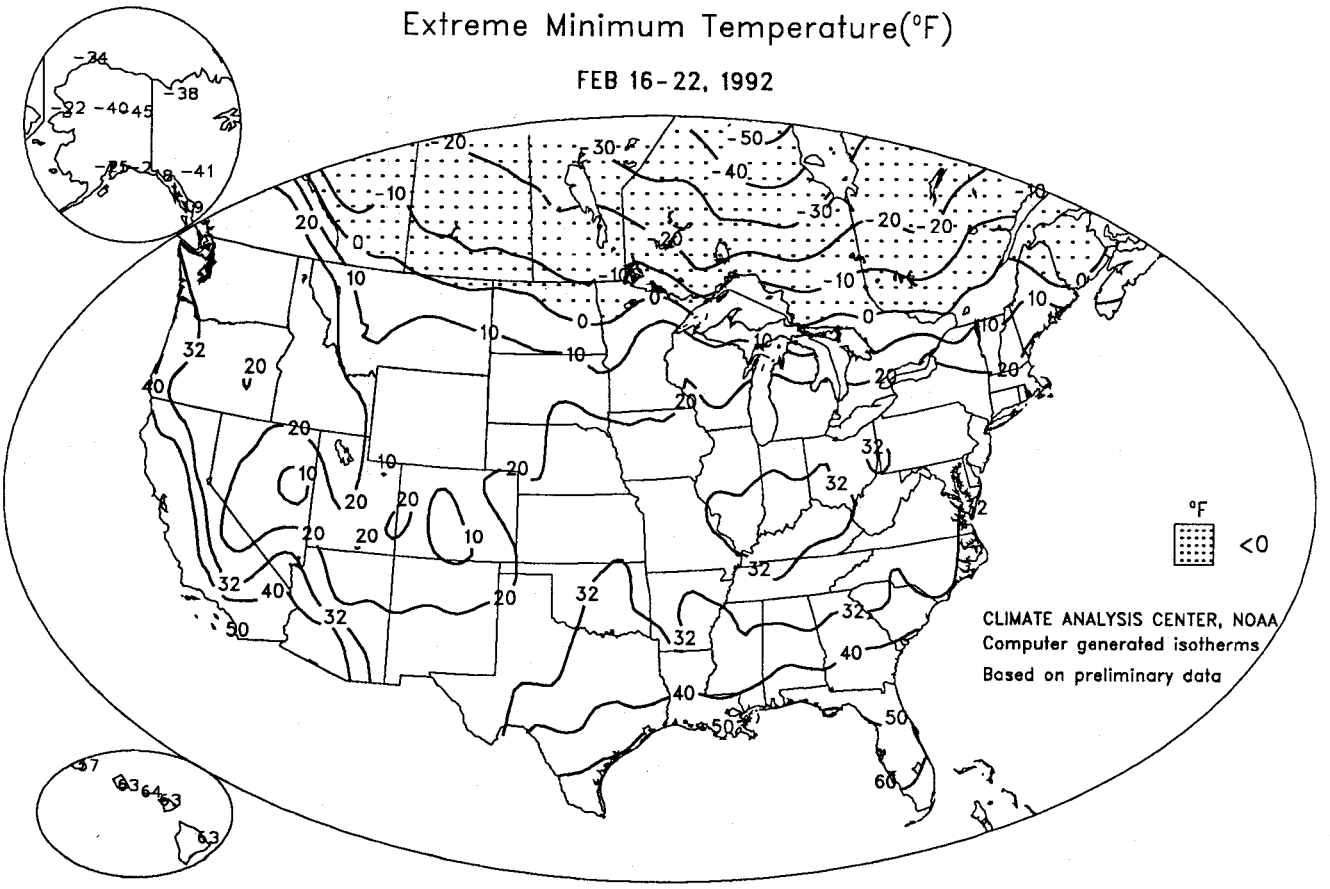
Departure of Average Temperature from Normal(°F)

FEB 16-22, 1992



Extreme Minimum Temperature(°F)

FEB 16-22, 1992



National Weather Data for Selected Cities

Weather Data for the Week Ending February 22, 1992

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																TEMP. °F		PRECIP.	
	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 Dec 1	PCT. NORMAL SINCE Dec 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
AL BIRMINGHAM	65	40	71	30	52	5	.6	-.6	.5	9.6	70	6.0	68	92	41	0	1	2	1
MOBILE	70	52	77	44	61	6	3.8	2.5	2.9	20.1	147	17.0	205	97	51	0	0	4	2
MONTGOMERY	68	46	73	36	57	7	2.3	1.2	1.5	18.9	153	13.3	176	96	45	0	0	2	2
AK ANCHORAGE	16	-5	20	-9	6	-13	.0	-.2	.0	3.2	128	1.4	96	85	43	0	7	0	0
BARROW	-15	-26	-7	-34	-21	-1	T	.0	T	.1	18	.1	17	76	65	0	7	0	0
FAIRBANKS	-8	-34	2	-39	-21	-19	T	-.1	T	2.4	151	1.4	160	81	63	0	7	0	0
JUNEAU	27	18	37	13	22	-7	.6	-.4	.5	21.2	188	12.2	184	89	60	0	7	2	0
KODIAK	30	22	31	19	26	-5	T	-1.2	T	15.3	100	9.5	96	76	47	0	7	2	0
NOME	10	-6	16	-16	2	-1	T	-.1	T	1.4	75	.9	75	78	51	0	7	0	0
AZ PHOENIX	71	49	77	46	60	3	.1	-.1	.1	4.1	211	2.5	222	79	30	0	0	1	0
PRESCOTT	56	30	66	26	43	2	.1	-.1	.1	5.3	198	3.6	227	83	32	0	6	1	0
TUCSON	70	41	78	36	56	1	T	-.1	T	4.5	202	3.0	236	90	25	0	0	0	0
YUMA	--	56	--	55	--	--	.0	-.1	.0	1.6	176	1.0	179	57	42	0	0	0	0
AR FORT SMITH	66	38	74	32	52	9	.2	-.5	.2	7.1	108	2.6	71	86	31	0	1	3	0
LITTLE ROCK	64	42	68	37	53	8	.2	-.8	.2	7.7	70	3.9	56	71	43	0	0	2	0
CA BAKERSFIELD	67	49	72	42	58	4	.1	-.1	.1	4.2	169	3.8	211	93	55	0	0	2	0
EUREKA	59	50	62	41	55	6	1.0	-.2	.4	9.8	57	7.8	70	86	66	0	0	6	0
FRESNO	65	48	69	40	56	5	.4	.0	.3	7.9	155	6.7	191	91	60	0	0	2	0
LOS ANGELES	65	53	77	49	59	1	T	-.6	T	9.2	139	6.3	126	93	62	0	0	2	0
REDDING	57	47	67	43	52	0	3.3	1.9	1.0	17.7	86	12.6	93	99	73	0	0	5	3
SACRAMENTO	60	49	65	44	54	3	1.6	1.0	.6	8.2	89	6.7	105	98	68	0	0	6	1
SAN DIEGO	64	54	66	50	59	1	.1	-.3	.1	6.9	150	5.2	160	92	68	0	0	1	0
SAN FRANCISCO	60	51	64	48	56	4	1.1	.3	.5	11.1	103	8.4	115	96	71	0	0	6	0
CO DENVER	53	27	61	21	40	6	T	-.2	T	1.4	93	1.2	123	69	21	0	6	1	0
GRAND JUNCTION	45	29	51	24	37	2	.1	-.1	.1	1.1	69	.6	56	90	46	0	4	2	0
PUEBLO	56	22	65	10	39	3	T	-.1	T	.8	104	.2	53	59	19	0	7	0	0
CT BRIDGEPORT	48	34	53	30	41	10	.1	-.7	.0	7.5	81	3.3	59	93	63	0	2	2	0
HARTFORD	47	30	54	26	38	10	.2	-.6	.2	6.8	67	3.9	65	94	56	0	5	2	0
DC WASHINGTON	55	38	62	35	47	8	.3	-.4	.3	9.2	116	4.1	86	92	50	0	0	2	0
FL APALACHICOLA	67	57	74	52	62	7	6.8	5.9	3.4	16.4	166	14.9	234	97	70	0	0	5	2
DAYTONA BEACH	73	58	81	50	66	6	.1	-.7	.0	5.0	72	3.5	73	97	62	0	0	3	0
JACKSONVILLE	72	53	81	45	63	6	.3	-.6	.2	7.2	88	6.6	115	98	59	0	0	4	0
KEY WEST	82	72	84	69	77	7	.1	-.4	.0	2.6	51	1.8	55	94	71	0	0	2	0
MIAMI	82	68	85	63	75	7	.3	-.2	.3	3.4	61	3.2	87	95	62	0	0	1	0
ORLANDO	78	61	85	54	70	8	.1	-.7	.1	3.0	47	2.8	62	96	53	0	0	1	0
TALLAHASSEE	69	51	82	45	60	6	4.0	2.7	2.1	13.8	106	12.2	144	96	57	0	0	4	2
TAMPA	76	62	80	55	69	7	.1	-.7	.1	4.4	67	3.7	84	95	61	0	0	1	0
WEST PALM BEACH	82	66	86	60	74	8	.9	.3	.8	5.4	77	4.0	84	99	60	0	0	2	1
GA ATLANTA	62	43	69	38	52	6	.9	-.3	.8	8.4	67	5.7	68	92	47	0	0	3	1
AUGUSTA	65	39	75	32	52	4	.7	-.3	.6	8.9	87	6.3	90	100	48	0	1	3	1
MACON	66	43	72	37	54	5	1.4	.2	1.1	13.2	112	9.5	124	98	50	0	0	3	1
SAVANNAH	69	49	77	43	59	6	1.4	.6	1.2	10.5	126	8.8	158	95	56	0	0	2	1
HI HILO	83	64	86	63	73	2	T	-3.5	T	17.5	54	2.5	13	88	56	0	0	0	0
HONOLULU	82	70	84	63	76	4	.3	-.4	.3	2.9	31	1.7	29	86	60	0	0	1	0
KAHULUI	83	66	85	63	75	3	T	-.7	T	4.5	49	3.0	47	89	57	0	0	1	0
LIHUE	80	65	82	57	73	1	.1	-.7	.1	11.2	77	4.1	45	91	61	0	0	2	0
ID BOISE	50	35	54	28	43	6	.6	.3	.3	1.6	43	1.3	52	96	53	0	1	6	0
LEWISTON	50	37	57	30	43	4	.1	-.1	.1	1.6	46	1.2	56	88	56	0	2	3	0
POCATELLO	46	32	52	23	39	8	.6	.4	.5	1.1	41	.9	49	92	53	0	3	6	0
IL CHICAGO	43	33	50	25	38	11	.4	.1	.3	5.5	114	1.9	77	97	76	0	3	3	0
MOLINE	47	31	56	28	39	12	.6	.2	.3	4.4	99	2.6	101	93	70	0	4	3	0
PEORIA	49	34	59	29	41	13	.3	-.1	.2	4.4	94	2.3	87	94	67	0	3	5	0
QUINCY	49	34	60	31	42	12	.8	.4	.7	3.7	90	1.7	73	92	65	0	2	3	1
ROCKFORD	42	31	51	25	37	12	.5	.2	.4	3.8	91	1.9	87	92	71	0	3	3	0
SPRINGFIELD	50	35	59	32	43	12	.2	-.2	.2	3.8	78	2.5	88	97	69	0	1	3	0
IN EVANSVILLE	56	36	69	33	46	10	.3	-.5	.3	5.8	67	2.1	40	91	51	0	0	2	0
FORT WAYNE	46	33	59	28	39	12	.3	-.2	.2	5.0	83	2.9	82	94	73	0	1	2	0
INDIANAPOLIS	51	36	66	34	44	12	.4	-.2	.2	4.0	54	2.6	57	94	65	0	0	3	0
SOUTH BEND	43	34	50	33	38	11	.4	-.1	.2	4.8	70	3.1	79	92	71	0	0	4	0
IA DES MOINES	45	31	53	23	38	12	.7	.4	.5	5.2	184	3.0	166	96	67	0	4	3	1
SIOUX CITY	42	29	51	24	35	11	.3	.0	.2	2.1	104	1.3	96	95	67	0	5	3	0
WATERLOO	38	29	45	23	34	12	.6	.3	.3	3.8	149	2.3	159	94	78	0	5	3	0
KS CONCORDIA	51	34	60	25	43	10	.2	-.1	.1	3.2	168	1.6	130	92	56	0	2	3	0
DODGE CITY	55	28	65	22	42	6	T	-.2	T	2.7	208	.6	76	90	38	0	6	0	0
GOODLAND	54	28	65	23	41	8	.2	.1	.1	2.0	202	.6	107	92	37	0	7	2	0
TOPEKA	55	35	67	31	45	11	.5	.2	.4	4.5	154	2.0	124	90	52	0	3	3	0
WICHITA	60	35	69	27	48	12	.1	-.2	.0	3.1	140	1.0	84	87	44	0	1	2	0
KY BOWLING GREEN	58	37	71	33	48	10	.1	-.9	.1	11.0	91	3.9	51	87	51	0	0	2	0
LEXINGTON	55	38	67	33	46	11	.1	-.7	.1	11.7	120	4.5	75	85	52	0	0	2	0
LOUISVILLE	59	39	71	33	49	12	.1	-.8	.0	8.1	87	2.8	49	79	42	0	0	3	0
LA ALEXANDRIA	69	48	73	38	59	5	1.0	-.2	.7	19.4	150	12.4	153	93	45	0	0	3	1
BATON ROUGE	72	51	78	41	61	7	1.9	.7	.9	19.5	145	17.2	202	92	45	0	0	3	2
LAKE CHARLES	71	52	78	45	61	7	1.6	.8	.9	16.9	137	14.8	203	96	56	0	0	3	2
NEW ORLEANS	71	55	79	49	63	8	4.1	2.8	2.7	21.3	149	18.7	206	92	59	0	0	3	2

Based on 1951-80 normals.

Weather Data for the Week Ending February 22, 1992

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																TEMP. °F		PRECIP.	
	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 Dec 1	PCT. NORMAL SINCE Dec 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
SHREVEPORT	70	43	74	34	56	6	1.2	.4	1.1	16.4	154	8.9	132	90	35	0	0	3	1
ME CARIBOU	26	11	34	-8	18	4	1.2	.7	.7	7.9	112	5.9	147	89	70	0	7	6	1
PORTLAND	43	27	50	20	35	11	1.3	.4	1.0	11.8	107	7.8	119	94	61	0	6	4	1
MD BALTIMORE	52	33	60	26	42	7	.4	-.4	.4	6.7	77	2.6	49	94	53	0	4	2	0
SALISBURY	57	33	67	27	45	8	.4	-.4	.4	8.0	83	3.7	63	98	55	0	4	2	0
MA BOSTON	49	33	55	26	41	10	.5	-.4	.4	7.1	63	4.5	66	90	56	0	3	3	0
CHATHAM	45	33	47	29	39	8	.4	-.7	.2	5.9	47	2.8	36	93	69	0	3	4	0
MI ALPENA	36	23	41	9	29	10	.5	.1	.3	4.3	93	2.9	106	95	63	0	7	4	0
DETROIT	41	32	44	30	37	10	.5	.1	.2	4.8	86	2.9	94	93	70	0	3	6	0
FLINT	40	31	47	27	35	11	.5	.2	.2	4.5	98	2.4	89	93	73	0	4	5	0
GRAND RAPIDS	40	31	51	27	36	11	.2	-.2	.1	4.8	85	2.2	70	92	71	0	5	3	0
HOUGHTON LAKE	35	24	38	16	30	11	.5	.2	.3	4.0	92	2.3	91	91	68	0	7	4	0
LANSING	40	31	50	28	35	12	.4	.1	.2	4.6	91	2.5	95	94	73	0	7	3	0
MARQUETTE	30	16	39	9	23	8	.5	.0	.3	4.3	74	2.8	83	94	77	0	7	4	0
MUSKEGON	38	31	47	27	35	10	.3	-.1	.2	4.1	66	2.3	63	91	70	0	4	2	0
SAULT ST. MARIE	32	15	41	-1	23	8	.3	-.1	.2	6.1	101	3.6	103	90	58	0	7	4	0
MN ALEXANDRIA	31	20	36	8	26	12	.2	.1	.1	1.8	87	1.2	90	98	79	0	7	3	0
DULUTH	31	22	34	16	26	12	.2	.0	.2	1.5	50	.9	51	94	78	0	7	3	0
INT'L FALLS	27	14	33	-8	20	11	.9	.8	.4	3.1	135	2.1	154	94	79	0	7	5	0
MINNEAPOLIS	35	28	38	21	32	13	.2	.0	.2	2.0	87	.9	64	92	70	0	6	3	0
ROCHESTER	33	25	36	17	29	11	.3	.1	.3	2.9	134	1.5	113	98	79	0	7	2	0
MS GREENWOOD	69	43	73	34	56	8	.1	-1.0	.1	13.5	96	5.2	60	88	34	0	0	1	0
JACKSON	72	43	77	32	58	8	.4	-.7	.3	12.9	95	7.6	92	94	34	0	1	2	0
MERIDIAN	70	43	76	33	57	7	1.0	-.2	.8	16.8	119	10.0	118	98	45	0	0	2	1
MO CAPE GIRARDEAU	58	41	68	35	49	--	.4	-.4	.4	9.6	107	4.5	87	88	50	0	0	1	0
COLUMBIA	55	35	66	28	45	11	.4	-.1	.4	5.1	99	2.4	75	92	54	0	2	2	0
KANSAS CITY	52	34	63	29	43	9	1.0	.7	1.0	5.0	142	3.0	142	98	65	0	3	2	1
SAINT LOUIS	56	40	71	35	48	13	.5	-.1	.5	4.8	87	2.7	82	84	52	0	0	1	0
SPRINGFIELD	59	38	71	30	49	12	.2	-.4	.2	6.4	112	3.0	96	86	49	0	3	1	0
MT BILLINGS	48	26	60	18	37	7	.1	-.1	.1	.5	23	.2	14	73	33	0	6	1	0
GLASGOW	36	15	56	3	26	8	T	.0	T	.4	46	.3	45	94	56	0	7	2	0
GREAT FALLS	43	20	54	8	32	3	.2	.0	.2	.8	33	.7	45	81	44	0	6	2	0
HAVRE	37	11	50	3	24	1	T	-.1	T	.1	3	T	2	92	57	0	7	0	0
HELENA	46	24	55	16	35	7	.1	.0	.1	1.2	73	.4	38	87	44	0	7	2	0
KALISPELL	42	28	51	25	35	7	.6	.4	.2	2.6	65	2.0	79	95	57	0	6	6	0
MILES CITY	49	20	64	13	35	11	T	-.1	T	.1	8	.1	7	87	35	0	7	0	0
MISSOULA	47	31	50	21	39	9	.2	.0	.1	1.5	47	.6	29	87	46	0	3	3	0
NE GRAND ISLAND	48	29	59	24	39	10	.7	.5	.6	4.7	273	2.6	243	91	58	0	5	3	1
LINCOLN	48	31	59	23	40	12	.5	.2	.2	4.2	208	2.2	161	94	60	0	5	3	0
NORFOLK	45	28	56	22	37	11	.6	.4	.5	2.4	147	1.7	157	92	63	0	6	2	1
NORTH PLATTE	50	25	65	18	38	9	.5	.3	.4	2.1	182	1.4	191	95	46	0	7	3	0
OMAHA	44	30	53	24	37	9	.5	.3	.4	4.1	194	2.5	180	90	68	0	5	2	0
SCOTTSBLUFF	54	22	62	15	38	7	.2	.1	.2	1.0	84	1.0	138	83	30	0	7	1	0
VALENTINE	46	24	55	18	35	10	.2	.1	.2	.7	72	.7	112	97	59	0	7	2	0
NV ELY	47	20	54	4	34	4	.3	.2	.2	1.8	89	1.5	119	83	46	0	7	3	0
LAS VEGAS	63	42	72	38	53	2	T	-.1	T	2.0	176	1.7	208	86	40	0	0	0	0
RENO	52	33	61	29	43	4	.1	-.1	.1	1.5	47	.6	30	85	43	0	4	2	0
WINNEMUCCA	50	33	57	24	41	5	.1	-.1	.0	.9	42	.3	22	88	48	0	3	2	0
NH CONCORD	43	26	49	19	35	11	.3	-.3	.2	6.5	79	2.8	60	97	58	0	7	3	0
NJ ATLANTIC CITY	52	31	57	24	42	8	.3	-.5	.3	6.0	63	2.3	38	95	57	0	4	2	0
NM ALBUQUERQUE	55	28	62	20	41	0	T	-.1	T	2.3	196	.7	112	69	22	0	5	1	0
CLOVIS	63	33	72	27	48	6	T	-.1	T	4.8	351	2.0	248	66	17	0	3	0	0
ROSWELL	67	32	75	26	49	5	.0	-.1	.0	3.6	334	1.0	138	66	15	0	4	0	0
NY ALBANY	44	27	48	21	36	11	.3	-.3	.1	5.5	79	2.6	65	95	62	0	5	5	0
BINGHAMTON	42	29	54	22	36	12	.3	-.2	.2	5.6	79	2.9	67	92	63	0	5	4	0
BUFFALO	40	29	44	25	35	9	.9	.4	.5	7.6	92	3.8	79	98	76	0	6	6	1
NEW YORK	49	37	53	33	43	9	T	-.7	T	5.9	65	2.4	45	89	54	0	0	1	0
ROCHESTER	40	28	46	23	34	9	.3	-.2	.2	5.5	82	2.6	63	97	75	0	6	4	0
SYRACUSE	41	29	52	23	35	10	.8	.1	.3	7.6	98	4.5	98	96	70	0	6	6	0
NC ASHEVILLE	57	32	67	24	45	5	.2	-.7	.2	8.6	98	3.8	67	95	43	0	4	2	0
CHARLOTTE	60	40	68	33	50	7	.3	-.7	.2	7.6	75	4.6	69	87	41	0	0	4	0
GREENSBORO	59	36	68	29	47	7	.2	-.6	.1	7.6	80	4.8	78	89	43	0	1	3	0
HATTERAS	64	46	71	36	55	9	.8	-.2	.5	12.1	97	7.7	95	97	54	0	0	3	0
NEW BERN	65	41	73	32	53	7	.8	-.2	.4	10.7	99	7.9	111	96	45	0	1	3	0
RALEIGH	61	38	69	30	50	7	.3	-.5	.2	7.3	78	4.7	75	95	42	0	1	3	0
WILMINGTON	66	42	75	32	54	6	1.1	.3	.7	9.3	95	7.1	112	95	47	0	1	3	1
ND BISMARCK	30	18	34	4	24	8	.3	.2	.2	.9	67	.7	87	97	78	0	7	4	0
FARGO	29	16	37	4	23	10	.5	.4	.2	1.7	121	1.4	167	93	77	0	7	6	0
GRAND FORKS	24	10	34	-3	17	6	.4	.3	.2	1.3	75	1.0	88	94	72	0	7	4	0
WILLISTON	34	18	49	6	26	9	T	-.1	T	.8	56	.6	67	91	64	0	7	1	0
OH AKRON-CANTON	46	33	62	31	40	12	.6	.0	.3	6.6	97	3.3	79	93	66	0	3	5	0
CINCINNATI	53	37	67	34	45	12	.2	-.5	.1	9.0	110	3.9	75	87	55	0	0	5	0
CLEVELAND	46	34	56	30	40	11	.9	.3	.5	7.5	109	5.2	126	94	67	0	2	5	1
COLUMBUS	50	36	65	31	43	12	.2	-.4	.1	6.3	91	2.5	58	91	60	0	1	3	0

Based on 1951-80 normals.

Weather Data for the Week Ending February 22, 1992

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																TEMP. °F		PRECIP.	
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTRME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Dec 1	PCT. NORMAL SINCE Dec 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
DAYTON	50	35	64	33	42	11	.5	.0	.3	7.7	116	4.0	97	90	61	0	0	2	0
TOLEDO	44	33	50	31	38	11	.5	.1	.3	4.5	75	3.0	88	92	71	0	4	4	0
YOUNGSTOWN	45	33	58	29	39	12	.4	-.2	.2	5.8	81	3.3	75	91	66	0	4	4	0
OK OKLAHOMA CITY	64	41	71	34	53	11	.2	-.2	.2	7.2	231	1.8	92	82	36	0	0	1	0
TULSA	65	43	73	36	54	12	T	-.5	T	6.3	142	1.7	65	74	33	0	0	1	0
OR ASTORIA	51	40	56	36	45	1	3.5	1.7	1.2	20.9	73	14.2	84	97	69	0	0	6	4
BURNS	46	30	51	20	38	3	.7	.5	.4	1.6	41	1.5	63	94	61	0	4	5	0
MEDFORD	58	41	61	30	49	6	.3	-.2	.1	2.5	29	1.4	28	97	57	0	1	5	0
PENDLETON	54	37	62	29	46	5	.5	.2	.2	1.8	42	1.1	42	82	52	0	1	3	0
PORTLAND	54	43	63	33	49	5	3.0	2.1	1.2	12.5	79	8.2	88	96	69	0	0	6	2
SALEM	54	43	62	36	48	5	3.8	2.8	1.1	12.9	73	9.2	86	93	70	0	0	6	4
PA ALLENTOWN	47	33	50	28	40	10	.1	-.7	.1	6.0	64	2.5	44	91	56	0	4	2	0
ERIE	43	32	49	28	37	11	.6	.1	.3	7.2	100	4.1	103	94	68	0	5	5	0
HARRISBURG	49	34	58	27	42	9	.2	-.5	.2	4.7	56	1.8	36	88	55	0	1	1	0
PHILADELPHIA	52	34	57	29	43	9	.1	-.6	.1	5.6	65	1.8	33	92	53	0	2	1	0
PITTSBURGH	48	35	63	33	42	12	.2	-.4	.1	6.9	96	3.2	70	89	59	0	0	4	0
SCRANTON	45	31	49	27	38	10	T	-.5	T	4.4	70	1.7	44	89	59	0	4	0	0
RI PROVIDENCE	51	32	59	26	41	11	.3	-.7	.2	9.4	82	6.2	89	90	55	0	5	2	0
SC CHARLESTON	67	48	77	41	58	7	1.1	.3	1.0	8.4	94	6.8	116	96	54	0	0	4	1
COLUMBIA	65	40	73	31	52	4	.5	-.5	.4	6.9	63	4.3	58	97	45	0	2	4	0
FLORENCE	66	43	75	34	54	7	.2	-.6	.2	6.1	67	4.0	66	93	42	0	0	2	0
GREENVILLE	59	37	68	32	48	4	.5	-.7	.3	7.4	64	4.5	59	97	46	0	2	4	0
SD ABERDEEN	34	24	41	15	29	12	.3	.1	.2	1.2	83	1.1	111	94	80	0	6	3	0
HURON	35	23	40	15	29	9	.6	.4	.3	1.9	127	1.8	187	96	75	0	6	3	0
RAPID CITY	49	21	62	15	35	8	T	-.2	T	.4	28	.3	38	92	36	0	7	0	0
SIOUX FALLS	37	25	42	18	31	10	.9	.6	.6	2.3	122	2.1	179	98	79	0	6	4	1
TN CHATTANOOGA	58	36	68	28	47	4	.4	-.8	.4	14.2	102	6.2	70	99	51	0	3	2	0
KNOXVILLE	58	37	67	28	47	5	.1	-1.0	.1	15.0	121	4.8	61	92	45	0	2	2	0
MEMPHIS	65	42	72	32	53	9	.7	-.4	.7	10.5	82	3.3	42	90	42	0	1	2	1
NASHVILLE	60	38	71	32	49	8	.1	-.9	.1	11.1	91	3.8	51	86	45	0	1	2	0
TX ABILENE	66	42	71	34	54	5	.1	-.1	.1	9.7	368	3.4	193	75	34	0	0	1	0
AMARILLO	64	31	71	23	48	7	.0	-.1	.0	2.9	212	.7	78	63	16	0	3	0	0
AUSTIN	73	50	75	42	62	8	1.0	.4	.9	23.8	426	9.6	271	83	33	0	0	3	1
BEAUMONT	72	50	77	45	61	5	1.3	.3	.7	28.6	231	17.1	229	94	51	0	0	2	2
BROWNSVILLE	75	61	84	57	68	5	.1	-.2	.1	6.5	179	5.3	212	96	66	0	0	2	0
CORPUS CHRISTI	73	56	80	54	65	5	T	-.3	T	18.0	447	8.2	292	97	54	0	0	2	0
DEL RIO	72	49	77	41	60	4	T	-.2	T	7.2	410	4.2	340	72	32	0	0	1	0
EL PASO	67	34	75	26	51	1	.0	-.1	.0	4.6	426	1.3	183	64	17	0	3	0	0
FORT WORTH	68	47	74	38	58	8	.4	-.1	.4	12.8	263	4.1	130	81	37	0	0	1	0
GALVESTON	68	58	78	57	63	7	1.4	.9	.8	18.0	213	15.6	321	93	59	0	0	2	2
HOUSTON	74	47	77	40	61	5	1.1	.3	.9	21.8	220	12.5	203	93	39	0	0	2	1
LUBBOCK	67	35	74	25	51	8	.0	-.2	.0	4.4	389	2.2	284	71	18	0	2	0	0
MIDLAND	69	37	77	32	53	5	T	-.1	T	4.7	373	2.5	298	73	19	0	1	1	0
SAN ANGELO	69	41	72	34	55	4	.3	.1	.3	7.8	406	3.9	297	87	32	0	0	1	0
SAN ANTONIO	74	48	78	40	61	6	1.5	1.1	1.3	24.8	572	10.9	364	84	32	0	0	3	1
VICTORIA	74	52	80	47	63	6	1.4	.8	1.1	18.7	321	12.4	339	91	44	0	0	2	1
WACO	70	45	74	37	58	6	1.0	.5	1.0	17.1	330	8.6	264	89	40	0	0	2	1
WICHITA FALLS	67	41	73	32	54	8	T	-.3	T	9.2	325	2.3	138	80	36	0	1	0	0
UT CEDAR CITY	48	26	58	15	37	2	.6	.4	.5	1.9	99	1.5	121	91	47	0	6	3	0
SALT LAKE CITY	50	34	57	29	42	7	.9	.6	.4	2.4	66	2.0	87	86	46	0	3	4	0
VT BURLINGTON	39	23	45	15	31	12	.5	.0	.1	4.4	79	3.1	97	98	67	0	6	6	0
VA NORFOLK	61	41	70	34	51	10	.3	-.5	.2	8.1	86	5.6	90	95	46	0	0	3	0
RICHMOND	60	36	70	29	48	8	.3	-.5	.1	7.3	81	2.8	50	93	50	0	2	3	0
ROANOKE	55	34	68	27	45	6	.1	-.7	.1	6.2	76	3.7	70	90	45	0	2	3	0
WA QUILLAYUTE	48	36	52	30	42	0	3.5	.5	1.1	40.9	99	30.2	126	99	71	0	2	5	4
SEATTLE-TACOMA	50	39	58	32	44	1	1.6	.6	.7	16.2	103	10.8	115	95	65	0	1	6	1
SPOKANE	45	30	51	24	38	4	1.3	.9	.7	4.9	79	3.7	99	98	61	0	4	5	1
YAKIMA	51	29	59	23	40	3	.3	.2	.2	2.0	61	.7	37	97	57	0	5	3	0
WV BECKLEY	51	36	65	31	43	10	.3	-.6	.1	9.2	102	2.8	47	80	50	0	2	3	0
CHARLESTON	57	36	72	30	47	10	.1	-.7	.0	8.7	95	2.8	47	85	47	0	1	4	0
HUNTINGTON	56	37	70	34	47	10	.1	-.6	.0	8.0	94	2.7	50	87	47	0	0	3	0
PARKERSBURG	53	35	67	29	44	9	.2	-.5	.1	7.2	96	2.1	44	95	61	0	1	5	0
WI GREEN BAY	35	26	38	19	31	12	.2	-.1	.1	2.5	75	1.1	55	97	70	0	6	3	0
LACROSSE	37	29	40	22	33	12	.5	.3	.4	3.2	122	1.5	99	93	69	0	6	2	0
MADISON	37	28	42	20	32	10	.3	.1	.3	3.5	104	1.8	98	93	74	0	5	2	0
MILWAUKEE	37	31	44	27	34	10	.8	.4	.7	4.3	93	2.4	91	94	74	0	3	2	1
WAUSAU	34	24	37	12	29	12	.2	.0	.2	2.2	76	.8	48	98	78	0	7	2	0
WY CASPER	45	28	53	13	36	8	.3	.2	.3	.9	63	.5	59	81	47	0	4	2	0
CHEYENNE	47	29	54	22	38	8	T	-.1	T	.5	50	.4	60	62	29	0	5	0	0
LANDER	44	24	50	15	34	7	.1	-.1	.1	.9	61	.6	65	83	44	0	6	1	0
SHERIDAN	48	26	59	22	37	9	T	-.2	T	.8	37	.2	16	80	36	0	7	1	0

Based on 1951-80 normals.

HEATING DEGREE DAYS (Base 65° F)

February 16 - 22, 1992

(Cumulative totals and departures from normal are for the period July 1, 1991 - February 22, 1992)

STATES AND STATIONS	WEEKLY TOTAL	WEEKLY DEPARTURE	CUMULATIVE TOTAL	CUMULATIVE DEPARTURE	CUMULATIVE DEP fm 90-91
AL BIRMINGHAM	87	-40	2044	-200	209
MOBILE	29	-53	1396	-7	337
MONTGOMERY	53	-55	1756	-71	310
AK ANCHORAGE	415	91	6998	-480	-606
BARROW	596	-2	13237	269	402
FAIRBANKS	599	128	9980	-388	-37
JUNEAU	296	44	5314	-810	-543
KODIAK	273	21	5436	-242	-326
NOME	437	3	8685	-595	-258
AZ FLAGSTAFF	221	-16	4362	-384	-134
PHOENIX	35	-29	712	-441	03
PRESCOTT	150	-26	3024	-307	-83
TUCSON	64	-16	1146	-184	71
WINSLOW	179	1	3751	182	-5
YUMA	12	-30	445	-366	-129
AR FORT SMITH	89	-62	2349	-367	-185
LITTLE ROCK	82	-57	2192	-292	-40
CA BAKERSFIELD	49	-29	1698	65	15
EUREKA	72	-40	2477	-460	-136
FRESNO	61	-35	1809	-179	-38
LOS ANGELES	42	-14	625	-352	-38
REDDING	90	-8	1824	-124	-45
SACRAMENTO	73	-25	1825	-166	-37
SAN DIEGO	34	-15	547	-263	-155
SAN FRANCISCO	63	-28	1615	-420	-1
STOCKTON	61	-37	1847	-133	-36
CO DENVER	172	-42	4035	-107	111
GRAND JCT.	191	-19	4366	138	-370
PUEBLO	179	-22	3962	28	99
CT BRIDGEPORT	167	-69	3492	-251	279
HARTFORD	186	-71	4042	-345	325
DE WILMINGTON	154	-64	3204	-373	217
DC WASHINGTON	127	-60	2774	-277	296
FL APALACHICOLA	19	-56	1073	-85	348
DAYTONA BEACH	12	-43	615	-116	249
FORT MYERS	0	-28	186	-195	95
JACKSONVILLE	20	-53	1079	-86	311
KEY WEST	0	-7	14	-89	03
MIAMI	0	-14	55	-123	16
ORLANDO	2	-39	423	-138	172
TALLAHASSEE	33	-49	1310	-39	355
TAMPA	1	-46	458	-160	220
W. PALM BEACH	0	-21	131	-101	56
GA ATLANTA	87	-49	1958	-382	107
AUGUSTA	90	-30	1891	-140	281
MACON	72	-37	1717	-117	217
SAVANNAH	42	-54	1338	-224	256
ID BOISE	153	-41	3805	-278	-570
LEWISTON	150	-27	3389	-465	160
POCATELLO	179	-62	4651	-270	-299
IL CHICAGO	191	-74	4329	-264	-19
MOLINE	181	-89	4291	-444	-242
PEORIA	165	-94	4110	-440	-184
QUINCY	162	-81	3859	-397	-145
ROCKFORD	197	-85	4585	-414	-219
SPRINGFIELD	154	-86	3752	-405	-179
IN EVANSVILLE	132	-71	3204	-348	35
FORT WAYNE	180	-84	4108	-405	40
INDIANAPOLIS	149	-89	3657	-469	-75
SOUTH BEND	185	-79	4171	-337	79
IA DES MOINES	189	-84	4348	-448	-218
DUBUQUE	218	-78	4952	-351	-180
SIOUX CITY	207	-75	4596	-510	-258
WATERLOO	218	-87	4960	-505	-316
KS CONCORDIA	155	-74	3597	-534	-164
DODGE CITY	161	-41	3428	-286	-73
GOODLAND	168	-57	3944	-358	-53
TOPEKA	135	-83	3397	-584	-213
WICHITA	119	-81	3123	-477	-216
KY BOWLING GREEN	118	-68	2902	-351	100
LEXINGTON	128	-79	3182	-368	102
LOUISVILLE	112	-85	2889	-487	08
LA ALEXANDRIA	43	-52	1456	-146	-10
BATON ROUGE	29	-52	1232	-159	79
LAKE CHARLES	26	-50	1187	-121	23
NEW ORLEANS	20	-55	1188	-49	251
SHREVEPORT	59	-46	1647	-179	-100
ME CARIBOU	326	-33	6515	-105	251
PORTLAND	209	-81	4783	-310	477
MD BALTIMORE	158	-49	3271	-146	426
SALISBURY	138	-56	2959	-210	289
MA BOSTON	167	-69	3684	-159	402
CHATHAM	181	-54	3585	-256	316
MI ALPENA	248	-78	5298	-361	148
DETROIT	197	-72	4186	-428	105
FLINT	204	-83	4589	-300	61
GRAND RAPIDS	205	-79	4539	-285	85
HOUGHTON LAKE	247	-78	5242	-436	-36
LANSING	206	-81	4676	-198	121
MARQUETTE	290	-60	6329	-129	49
MUSKEGON	210	-73	4425	-316	68
SAULT ST MARIE	290	-61	5963	-280	30
MN ALEXANDRIA	274	-84	6018	-523	31
DULUTH	270	-92	6564	-299	45
INT'L FALLS	311	-81	6981	-525	-90
MINNEAPOLIS	231	-91	5514	-269	107
ROCHESTER	249	-78	5678	-239	12
SAINT CLOUD	249	-99	6023	-394	-1
MS GREENWOOD	62	-60	1891	-271	54
JACKSON	51	-62	1724	-189	77
MERIDIAN	56	-56	1747	-228	204
MO CAPE GIRARDEAU	108	-84	2906	-453	-127
COLUMBIA	138	-82	3480	-378	-79
KANSAS CITY	151	-70	3572	-365	-131
SAINT LOUIS	117	-93	3099	-593	-84
SPRINGFIELD	113	-80	3053	-410	-98
MT BILLINGS	196	-51	4217	-785	-328
GLASGOW	275	-56	5294	-1055	-562
GREAT FALLS	233	-24	4480	-853	-468
HAVRE	287	-18	5093	-1046	-439
HELENA	210	-52	5196	-464	125
KALISPELL	210	-52	5121	-687	-412
MILES CITY	209	-79	4575	-1079	-568
MISSOULA	179	-70	4886	-577	-360
NE GRAND ISLAND	182	-73	4098	-649	-208
LINCOLN	176	-83	4010	-694	-266
NORFOLK	197	-82	4427	-694	-310
NORTH PLATTE	188	-68	4265	-679	-271
OMAHA	192	-62	4223	-370	-259
SCOTTSBLUFF	190	-46	4297	-418	-273
VALENTINE	210	-67	4695	-516	-293
NV ELY	219	-29	4787	-343	-95
LAS VEGAS	83	-14	1769	-219	-68
RENO	154	-34	3376	-731	-395
WINNEMUCCA	164	-34	3919	-456	-621
NH CONCORD	212	-82	4867	-345	279
NJ ATLANTIC CITY	160	-60	3388	-165	291
NM ALBUQUERQUE	164	-9	3194	-114	35
CLOVIS	119	-46	3101	66	357
ROSWELL	107	-21	2667	174	394
NY ALBANY	203	-83	4567	-311	327
BINGHAMTON	205	-89	4595	-450	68
BUFFALO	211	-69	4359	-291	295
NEW YORK	151	-68	3034	-416	313
ROCHESTER	215	-66	4479	-141	291
SYRACUSE	209	-74	4486	-203	259
NC ASHEVILLE	142	-35	2802	-352	166
CAPE HATTERAS	68	-66	1582	-331	199
CHARLOTTE	102	-48	2069	-489	147
GREENSBORO	121	-50	2495	-421	190
NEW BERN	81	-53	1872	-316	229
RALEIGH-DURHAM	106	-53	2312	-361	232
WILMINGTON	72	-48	1773	-143	349
ND BISMARCK	284	-57	5640	-846	-393
FARGO	296	-71	6061	-632	-50
GRAND FORKS	333	-45	6357	-678	-103
WILLISTON	270	-71	5666	-926	-399
OH AKRON-CANTON	174	-85	4102	-288	235
CLEVELAND	174	-84	3912	-404	79
COLUMBUS	153	-87	3669	-443	127
CINCINNATI	136	-88	3462	-382	136
DAYTON	157	-84	3842	-272	162
TOLEDO	185	-84	4135	-506	32
YOUNGSTOWN	180	-89	4168	-410	209
OK OKLAHOMA CITY	84	-78	2465	-409	-140
TULSA	75	-87	2375	-520	-169
OR ASTORIA	135	-10	3011	-302	-120
BURNS	189	-26	4574	-149	-526
MEDFORD	108	-45	2726	-570	-522
PENDLETON	133	-38	3348	-385	-343
PORTLAND	114	-33	2537	-621	-376
SALEM	115	-38	2697	-574	-358
PA ALLENTOWN	173	-72	3719	-426	144
ERIE	193	-84	3926	-631	237
HARRISBURG	162	-68	3495	-354	164
PHILADELPHIA	153	-66	3123	-438	279
PITTSBURGH	160	-89	3835	-415	252
SCRANTON	188	-75	4151	-321	300
RI PROVIDENCE	164	-83	3641	-426	220
SC CHARLESTON	48	-57	1428	-274	279
COLUMBIA	88	-34	1909	-165	248
FLORENCE	72	-49	1770	-239	237
GREENVILLE	114	-31	2242	-244	116
SD ABERDEEN	252	-82	5446	-732	-241
HURON	248	-69	5097	-750	-331
RAPID CITY	206	-59	4422	-647	-395
SIOUX FALLS	238	-72	5121	-583	-263
TN CHATTANOOGA	127	-29	2431	-317	211
KNOXVILLE	122	-36	2623	-182	199
MEMPHIS	83	-61	2179	-330	74
NASHVILLE	109	-57	2563	-310	128
TX ABILENE	77	-36	2130	31	101
AMARILLO	120	-51	3113	-36	29
AUSTIN	25	-58	1232	-222	-75
BEAUMONT	27	-46	1122	-113	26
BROWNSVILLE	3	-29	520	-14	32
CORPUS CHRISTI	10	-39	713	-120	-18
DEL RIO	31	-35	1133	-171	36
EL PASO	100	-10	2050	-116	53
FORT WORTH	50	-55	1722	-132	-134
GALVESTON	16	-51	896	-128	34
HOUSTON	29	-46	1188	-97	-1
LUBBOCK	94	-57	2635	-78	149
MIDLAND-ODESSA	81	-34	2282	151	198
SAN ANGELO	68	-33	1895	10	-26
SAN ANTONIO	30	-45	1179	-165	-105
VICTORIA	16	-45	913	-154	-77
WACO	49	-49	1529	-191	-145
WICHITA FALLS	75	-55	2167	-220	-95
UT BLANDING	188	-29	3908	-397	-293
CEDAR CITY	193	-16	3975	-155	-421
SALT LAKE CITY	159	-49	4040	-91	-261
VT BURLINGTON	238	-85	5267	-253	509
VA LYNCHBURG	139	-50	2847	-359	157
NORFOLK	93	-72	2250	-280	325
RICHMOND	117	-61	2585	-389	264
ROANOKE	139	-46	2830	-371	289
WA COLVILLE	198	-31	4478	-566	-378
QUILLAYUTE	160	-1	3305	-490	-207
SEATTLE-TACOMA	142	-10	2738	-641	-374
SPOKANE	188	-32	4193	-603	-430
YAKIMA	171	-21	3766	-561	-484
WV BECKLEY	151	-74	3926	-77	661
CHARLESTON	128	-72	3086	-387	293
HUNTINGTON	126	-72	3119	-346	230
PARKERSBURG	144	-68	3474	-150	328
WI GREEN BAY	238	-85	5231	-465	-62
LA CROSSE	223	-85	5141	-308	08
MADISON	228	-75	4941	-502	-129
MILWAUKEE	212	-74	4419	-628	-27
WAUSAU	253	-82	5794	-255	95
WY CASPER	198	-62	4734	-459	-252
CHEYENNE	186	-59	4537	-312	-177
LANDER	213	-54	5345	-128	100
SHERIDAN	195	-68	4738	-664	-287

Based on 1951-80 normals.

National Agricultural Summary

February 17 - 23, 1992

HIGHLIGHTS: Storm systems remained active in the West, bringing additional rain and snow to northern California, Oregon, and Washington. Rains also continued their seemingly relentless visitation of the Gulf region. Field activities continued to be delayed from southeast Texas through western Florida due to the rains. Average temperatures for the week were above normal across the Nation, with well-above-normal temperatures recorded across much of the Central and Northeastern United States.

SMALL GRAINS: Fall-seeded grains were beginning to green in the Ohio Valley and northern Rocky Mountains in response to the abnormally high temperatures experienced this season. Surplus moisture continued to cause some yellowing of winter wheat in eastern Texas and the Delta, but fields in the western two-thirds of Texas and northern Arkansas responded well to drier, warmer weather. Application of topdressing fertilizers continued, as conditions allowed, across the East. Winter wheat condition was reported as fair to good in most areas. Isolated areas of winter kill were reported in Wyoming.

OTHER FIELD CROPS: Greenchopping of alfalfa and barley resumed in southern California, and winter potato digging progressed in the Perris-Hemet area. Corn planting was underway in Florida and southern Georgia, and a few fields were planted in the Coastal Bend region of southern Texas. Florida sugarcane harvest remained active. Irish potato planting began in North Carolina. Late-harvested cotton continued to arrive at gins in Oklahoma. Fields were being prepared for spring planting across the southern latitudes.

FRUIT AND NUTS: Lemon, grapefruit, orange, tangerine, and pecan picking was active in Arizona. Bloom appeared on early varieties of almonds, apricots, nectarines, peaches, and plums in California, and blooming orchards were treated against blossom rot. Southern California orange and tangerine harvests resumed, and Reedley district lemon harvest continued. Avocado harvest started in Riverside, CA. Florida citrus trees were just starting to produce new growth, while early and midseason orange harvests were nearly complete. Grapefruit movement remained active along Florida's lower east coast, and honey tangerine, and temple harvests were active in all areas. Maple syrup was being drawn in Virginia, while producers further north were preparing for the upcoming season. Orchard, grape, and nut pruning continued across the Central and Northern States.

VEGETABLES: Arizona's lettuce harvest continued in the central and western parts of the State, as did lettuce planting in the east. Broccoli, cauliflower, and celery harvests continued in California. Lettuce harvest was active in the desert area, and artichoke harvest started early in Imperial Valley, CA, due to warm weather. Spring planting was nearly complete in southern Florida, and harvests of winter vegetable crops was active. Florida's volume leaders were tomatoes, peppers, cabbage, squash, celery, sweet corn, and snap beans. Wet conditions were causing disease problems in Georgia onions. Cabbage planting began in North Carolina. Melon planting continued in Texas, while land preparation and planting continued to be delayed by wet conditions in east Texas.

PASTURES AND LIVESTOCK: Producers began to move sheep off alfalfa fields in western Arizona. Cattle grazing on winter wheat continued across the South Central States. Some hay shortages continue to be reported in Arkansas and Indiana. Mild weather aided calving and lambing in the Rocky Mountains, and the persistent mild weather in the Midwest continued to limit pressure on forage and hay supplies.

(Continued from front cover)
storm. Blowing dust lowered visibility on **Idaho's Camas Prairie**, and wind gusts reached 55 mph in **Casper, WY. Miles City, MT**, noted a daily record high of 64° F. Three days of heavy rainfall (up to 7 inches) west of **Oregon's Cascades** resulted in river flooding. Precipitation continued, though not as heavily as last week, over **northern California**, averaging more than 2 inches across the **Sierra Nevada** and the State's major reservoirs. By late in the week, Canadian air seeped across the border east of the **northern Plains**. Snowfall along the cold front reached 10 inches in **northern Minnesota**. At week's end, thunderstorms again erupted along the **Gulf coast** and warm air surged into the **Southeast**. Rainfall topped 1 inch in many areas from **eastern Texas** to **southern Georgia**. Farther north, **Roanoke, VA** (68° F), and **Paducah, KY** (72° F), enjoyed daily record warmth.

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. most areas. Temperatures 4 to 8° above normal.

Wet conditions limited field activities. Winter wheat conditions mostly good, some nitrating where dry enough, disease pressure light to none. Primary activities: Turning land; testing soil; repairing equipment, fences; making crop plans; attending production meetings; feeding cattle, catfish; stocking ponds; care of livestock, poultry, catfish.

ARIZONA: Mostly sunny southwest, partly cloudy with light rain, snow showers north, east, 16th. Partly sunny, 17th. Clear, warmer, 18th to 22nd. Rainfall trace southeast to 0.10 in. central. Temperatures 1° below to 3° above normal. Extremes 8°; 74° higher elevations, 29°; 85° deserts.

Cotton stalk shredding light statewide, preplanting preparations continuing statewide, planting beginning southwest. Alfalfa condition good; sheeping off, decreasing west, weed, insects light to moderate. Small grains established, 100%, 99% 1991, 100% avg.; small grains jointing, 30%, 36% 1991, 36% avg. Lemons, grapefruit, oranges, tangerines, mixed vegetables, lettuce harvested central, west. Pecans harvested, central. Lettuce planting, east.

ARKANSAS: Temperatures well above normal, scattered showers statewide first, last part of week. Extremes 21°; 76°. Rainfall 0.06 to 1.61 in.

Wheat fair to good. Some yellowing due to surplus moisture reported. Northeast; nitrogen applied to most wheat fields, seedbed preparation for cotton ongoing. Southern areas still need dry weather for nitrogen application, fieldwork. Northwest; pastures fair to good. Livestock good, continued to graze wheat in Southwest. Feeding hay, range cubes continued. Some hay shortages reported. Some peach buds beginning to swell.

CALIFORNIA: The storm track shifted north giving southern areas chance to dry out. Storms continued to move across the Pacific, brought rain to the northern two-thirds of the State. Snow levels were around 6,500 ft. or higher. Sacramento established a record 16 days of consecutive rainfall that ended on 21st.

Intermittent rains, wet soils hampered progress field activities. Small grains, new alfalfa excellent growth, increased moisture. Some wheat low areas, standing water. Limited seeding small grains, forages, few areas. Herbicide applications wheat, alfalfa, between storms. Green chopping alfalfa, barley, southern counties. Some alfalfa sprayed weevil control. Ground preparation spring planted crops very little progress, wet conditions. Grape growers prune, tie vines. New orchards planted. Orchards pruned. When weather allowed, orchards treated dormant spray. Wet conditions delayed field activity. Bloom appeared early varieties almonds, apricots, nectarines, peaches, plums. Blooming orchards treated, blossom rot. Navel orange, tangerine harvest continued, slow. Desert Valencia orange harvested. Reedley district lemons harvested, packed. Riverside avocados harvested. Artichoke harvest started early due to warm weather Imperial Valley. Broccoli fairly light Salinas Watsonville, fairly heavy Santa Maria, quality generally good. Cauliflower seasonally increasing Salinas Watsonville, moderate Santa Maria, variable quality. Celery very light, variable quality Santa Maria. Broccoli, cauliflower, celery harvests continued steady desert areas. Lettuce harvest active desert area, while Westside area fields progressed well. Fall potato movement Tulelake Butte Valley light. Winter potato digging progressed Perris Hemet area. Pepper, tomato plantings desert area looked good. Other vegetables harvested: cabbage, carrots, green onions, onions, strawberries, various oriental vegetables. Transplanting tomato, watermelon seedlings active Imperial Valley. Range and pasture mostly good to excellent. Grass growth increased. Sheep grazing alfalfa. Supplemental feeding slowed. Livestock movement variable. Livestock generally good condition. Calving, lambing activity increased.

COLORADO: Windy, light snow in the mountains, about 0.10 in. of moisture in the eastern plains. The western valleys recorded around 0.25 in. of moisture on the 17th. Weak system brought light snow to the mountains with some locally strong winds to lower elevations on the 20th. Light rain, snow returned to portions of the State on the 23rd. Temperatures mostly 5 to 8° above normal except in the San Luis Valley where temperatures were around 5° below normal.

Locally high winds were a concern in the winter wheat growing areas; there was no major damage reported. Calving, lambing activities increased under mostly favorable conditions. Early seedbed preparation continued, was interrupted in some eastern areas by rain or snow showers.

FLORIDA: Temperatures 4 to 6° above normal, north; 8 to 10° above normal Peninsula. Extreme highs; upper 70s northwest; lower 80s northeast; low to mid 80s elsewhere. Lows; 40s north, 50s central, 60s south. Rainfall 1.00 to 3.00 in. Panhandle, Big Bend; elsewhere 0.50 in. or less.

Soil moisture adequate to surplus Panhandle, northern Peninsula; short to adequate central, southern Peninsula. Tobacco growers making preparations for transplanting. Corn planting underway. Sugarcane harvest active. Citrus trees just starting to produce new growth, pinhead bloom buds. Cool nights last week slowed growth. Irrigation continues. Early mid orange harvest complete except few small blocks. Young tree Valencia harvest increasing. Grapefruit movement active lower east coast. Honey tangerine, Temple harvest active all areas. Spring-like temperatures, limited rainfall prevailed over major vegetable producing areas. Spring planting, southern areas near complete. Harvest winter crops active. Volume leaders: tomatoes, peppers, cabbage, squash, celery, sweet corn, potatoes, snap beans. Also available: carrots, cucumbers, eggplant, escarole, lettuce, radishes, strawberries. State's pastures poor to good. Pasture ratings 25% poor, 50% fair, 25% good. Moisture levels short to adequate. State's cattle herds poor to good.

GEORGIA: Warm, wet week. Temperatures 4 to 7° above normal north, 7 to 10° above normal south. Warmest temperatures mid, upper 60s mountains, mid to upper 70s south. Coldest temperatures in 20s extreme north, 30s central, 40s south. Rain totals of 1.00 to 3.00 in. common. Local totals 3.00 to 5.00 in. southwest. Rain on 4 days across most of area.

Soil moisture adequate to mostly surplus. Rain early in week, weekend kept soils too wet for most field operations. Onions variable, poor to good, wet conditions causing disease problems. Wheat, rye, other small grains mostly fair to good. Some fertilizer applications in few driest fields. Tobacco plants good condition. Land preparation for spring planting about one third complete. Corn planting underway extreme South. Final pruning of peach trees completed. Pastures variable, poor to good, mud a problem some areas. Cattle, hogs fair to good.

HAWAII: A high pressure system brought warm, sunny weather with light winds, dry conditions. Temperatures mid 60s to low 80s. Rainfall was minimal, none to 0.80 in.

Days suitable for fieldwork 7.0. Banana production moderate. Cabbage production continues active. Cucumber supplies light from all islands. Green onion activity moderate to light. Papaya supplies steady at previous weeks level. Tomato harvest active.

IDAHO: Temperatures 4 to 11° above normal with some precipitation in most areas. Several northern stations reported over 1.00 in.

Soil moisture varied from short to adequate, many areas aided by recent rain, snow. Activities: Marketing potatoes, attending meetings, general preparation for spring fieldwork. Mild weather aided calving, lambing with overall livestock good to excellent. Hay, forage supplies mostly adequate.

ILLINOIS: Unseasonably mild conditions persisted during the week as the arctic air remained absent from the Midwest. Cloudy skies were common during the week, resulting in nighttime lows which only dipped slightly below freezing in northern sections of the State, while the southern section held above freezing throughout the week. Temperatures 10 to 12° above normal across the State. Precipitation accumulations slightly above 0.70 in. north to near 1.00 in. south.

INDIANA: Temperatures 10 to 15° above normal. Highs mid 40s to mid 50s. Lows 30s. Precipitation 0.20 to 0.60 in. Unusually mild week.

Wet, muddy conditions limited fieldwork. Main activities were selling grain, hauling manure. Other activities: Topdressing wheat, spreading fertilizer, seeding grasses, forages, program sign up, machinery repair, fence repair, attending sales, purchasing supplies, tax preparation, care of livestock. Winter wheat condition mostly poor to good. Wheat greening up. Hay supplies tight. Livestock mostly good.

IOWA: Temperatures 8 to 13° above normal. Extremes 15°; 60°. Eleventh consecutive week of above normal temperatures. Precipitation 0.17 in. west central to 1.49 in. south central. Rainfall 0.61 in., more than double weekly normal of 0.28 in.

KANSAS: Temperatures 6° above normal southwest; 9° to 12° above normal elsewhere. Rainfall moderate northeast, east central; light elsewhere.

Surface moisture generally adequate most areas; will help wheat as stands break dormancy near future. Livestock fair to good condition, producers able to maintain feeding schedules with moderate weather. Relatively moderate weather also reducing pressure on forage, hay supplies.

KENTUCKY: High temperatures upper 60s, lower 70s except 50s at midweek. Average temperatures upper 40s, 5 to 10° above normal. Rainfall 0.25 to 0.50 in. heaviest west. Mayfield, Henderson over 1.00 in.

Fall seeded small grains greening up, fruit trees dehardening prematurely due to abnormal warm temperatures. Soil moisture mostly adequate west, adequate to short other areas. Routine chores major activity. Burley markets closing for season remaining sales at Cynthiana, Carrollton, Lexington.

LOUISIANA: Temperatures 5 to 7° above normal. Extremes 26°; 80°. Rainfall 0.24 in. north central to 5.03 in. southeast.

Main activities: Wet conditions continued to delay most fieldwork, pre-planting activities. However, some wheat, winter pastures topdressing, seed sweet potato planting did take place. Drainage work in fields continued active as did livestock care, feeding. Crawfish catches improved due to warmer weather.

MARYLAND & DELAWARE: MARYLAND: Precipitation 1.32 in. Temperature 43.8°, normal 35.5°. Extremes 22°; 70°.

Activities: Buying seed, fertilizer; active preparation for spring planting; marketing, caring for livestock; checking on newborn livestock; cutting firewood.

DELAWARE: Precipitation 1.52 in. Temperature 45.5°, normal 36.5°. Extremes 27°; 64°.

Activities: Marketing, caring for livestock; purchasing seed, fertilizer; active preparation for spring planting; checking on newborn livestock; cutting firewood.

MICHIGAN: Temperatures 8 to 12° above normal. Extremes -4°; 51°. Precipitation none to 0.56 in. across the State. Unseasonably warm temperatures combined with little precipitation prevailed throughout State last week. This was followed by a warm sunny weekend.

Livestock are in good shape, feed stocks are adequate. Major activities included: Hauling manure; pruning; marketing crops; caring for livestock; making winter repairs on equipment.

MINNESOTA: Temperatures 7 to 13° above normal for the State. Extremes -12°; 42°. Precipitation 0.06 to 0.67 in. for the State; 0.14 in. below normal for the central portion of the State, near normal to 0.50 in. above normal elsewhere. Greatest weekly total 1.04 in. at Waseca. Snowfall 7 to 17 in. for the northeast, north central, 1 to 4 in. elsewhere. Snow depth at week's end 21 to 31 in. for the northeast, north central, 1 to 5 in. elsewhere.

MISSISSIPPI: Temperature 50°, 6.5° above normal. Extremes 30°; 84°. Rainfall statewide with scattered showers in the southern portion. Rainfall 1.17 in., 0.05 in. below normal. Soil temperature 55°.

Days suitable for fieldwork 1.8, 0.0 1991, 1.3 avg. Soil moisture 83% adequate, 17% surplus. Wheat 33% fair, 50% good, 17% excellent. Hay supply 100% adequate. Feed grain 100% adequate. Livestock 20% fair, 80% good. Activities: Fertilizing wheat, spring tillage in some areas.

MISSOURI: Temperatures 5° above normal southwest to 13° above normal St. Louis. Precipitation 0.62 in.; 0.13 in. southwest to around 1.00 in. northwest, north central, southeast.

Winter wheat, pastures showing signs of growth in response to warm weather, rain. Farmers caring for livestock, preparing for spring fieldwork.

MONTANA: Significant precipitation west, light precipitation central, little or none east. Temperatures slightly above normal central, well above normal east. Temperatures 5 to 10° above normal west.

Winter wheat 1% very poor, 9% poor, 54% fair, 35% good, 1% excellent. Winter wheat snow cover protection 89% poor, 3% fair, 8% good. Winter wheat 88% dormant, 12% greening. Grazing 95% open, 5% difficult. Cattle, calves on supplemental feed 94%, sheep and lambs 86%. Calving 10% completed, lambing 17% completed.

NEBRASKA: Relatively warm. Temperatures 11° above normal. Extremes 15°; 65°. Precipitation occurred the first, latter portions of the week with amounts ranging from 0.10 in. to nearly 1.00 in.

NEVADA: Small amounts rain or snow fell all sections; nearly 0.90 in. of rain northeast. Temperatures 3 to 8° above normal. Highs in the 60s common northwest. Extremes 4°; 72°.

Irrigation water supplies continue to concern farmers, ranchers. Fieldwork starting south, major activities livestock care, general maintenance.

NEW ENGLAND: Precipitation 0.11 to 2.18 in. north; 0.02 to 0.13 in. south. Temperatures mid teens northern Maine to low 30s north, low 30s to low 40s south. Maximum temperatures mid 40s north to mid 50s south; minimum temperatures -20° northern Maine to low 20s south.

Major farm activities: General repairs, maintenance, tending livestock, moving crops from storage.

NEW JERSEY: Temperatures much above normal, 39° north, 44° south, 44° coastal. Extremes 21°; 68°. Precipitation below normal; averaged 0.13 in. north, 0.22 in. south, 0.46 in. coastal. Heaviest 24 hour total 0.47 in. on 23rd, 24th.

Farmers caring for livestock; repairing equipment; preparing taxes; pruning fruit trees, firming up planting schedules.

NEW MEXICO: Warm conditions prevailed over much of the State except for the northern mountains. Plains 4 to 6° above normal, 1 to 2° colder than normal in the north central areas. Precipitation remained scarce for much of the week, but a cool front and upper level storm caused scattered showers late 23rd over the northern mountains, central highlands, eastern plains.

NEW YORK: Mild week with wide range in precipitation. Temperatures 10° above normal. Extremes 0°; 58°. Precipitation varied widely with southeast areas receiving the least. Western and northern sections picked up normal to above-normal amounts. Some precipitation fell on all days except the 17th.

Major activities: caring for livestock, moving crops from storage, maintenance work, attending meetings. Maple syrup producers preparing for upcoming season.

NORTH CAROLINA: Weather data not available.

Small grains good condition. Irish potato, cabbage planting have begun. Soil moisture adequate. Hay, roughage supplies, feed grain supplies adequate. Activities: Tending livestock; cutting wood; topdressing small grains; preparing and seeding tobacco plant beds; pruning fruit trees; land preparation; equipment repair; general farm maintenance.

NORTH DAKOTA: Temperatures 5 to 11° above normal. Extremes -16° northeast; 60° southwest. Precipitation 0.04 in. northwest; 0.37 in. east central.

Alfalfa, winter wheat, rye good. Livestock good to excellent; calving, lambing underway; feed supplies adequate. Livestock marketings normal. Grain marketings above normal some areas.

OHIO: Milder, drier than normal weather prevailed across State. Low pressure, a cold front moved across the Midwest 18th to 19th with severe thunderstorms over parts of northwest areas. High temperatures 40s in the north to the mid 50s in the south. Lows in the 30s to 40° throughout. Spring-like weather occurred over the weekend with highs in the mid 60s to low 70s. Columbus enjoyed 65° on 22nd. Precipitation water equivalents about 0.25 in. to 0.60 in most areas, which is generally below normal by as much as 0.40 in. There was no snow cover in any part of the State by the end of the week.

OKLAHOMA: Temperatures 6° above normal Panhandle to 15° above normal northeast. Precipitation none northeast to 0.63 in. west central.

Unseasonably mild weather caused wheat, winter pastures to grow. Moisture supplies good. Ginners still handling late cotton harvest. Forage supplies adequate. Cattle good; prices steady from last week.

OREGON: Temperatures above normal statewide. Eastern areas warmest, 6 to 10° above normal. Precipitation abundant statewide. Coast, Northern Cascades, averaging 6.00 in. Willamette Valley 3.70 in., High plateau 3.20 in., Southwestern valleys 1.40 in., elsewhere less than 0.50 in.

Soil moisture mostly adequate western areas; short to adequate eastern areas. Winter wheat condition, fair to good. Orchard, grape, nut pruning continued. Delayed irrigation deliveries for field crops in Klamath County causing concern, water supplies critically low. Livestock mostly good. Pastures dry, eastern areas, good, western areas. Calving, lambing continue. Range, pasture, poor to fair, eastern areas; good to excellent, western areas.

PENNSYLVANIA: Temperatures much above normal with much below normal precipitation. Temperature 38°, 12° above normal. Extremes 22°; 63°. Precipitation 0.23 in., 0.40 in. below normal.

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

PUERTO RICO: Rainfall of 0.20 in. was 0.36 in. below normal. Highest rainfall 1.58 in. at Pico Del Este Luquillo, 0.59 in. at San Lorenzo, 0.46 in. at Yabucoa. The highest 24 hour total was 0.50 in. at Pico del Este Luquillo. Divisional temperatures 76 to 77° on the Coasts, 69 to 72° in the Interior with mean station temperature 62° at Pico del Este Luquillo to 79° at Rincon. Extremes 47°; 91°.

SOUTH CAROLINA: Temperatures 4 to 8° above normal statewide. Average rainfall 0.85 in.

Farm activities: Applied nitrogen, herbicide to small grains; sprayed tobacco beds; collected soil samples; wheat good; livestock good.

SOUTH DAKOTA: Temperatures above normal; up to 11° above normal in the southeast, Black Hills. Extremes -5°; 62°. Precipitation over 0.50 in. central, southern, 0.25 to 0.50 in. northeast, less than 0.25 in. northwest. Maximum precipitation 1.30 in. For the year, precipitation below normal far west, above normal elsewhere, ranging from 0.74 in. below normal to 1.42 in. above.

TENNESSEE: Cold front brought rain 17th, 18th. High pressure dominated with mild, dry conditions 19th through 21st. Low pressure system brought more rain 22nd, 23rd. Temperatures 5° above normal east to over 10° above normal west. Temperatures 14° above normal Memphis, 8° above normal Nashville, 5° above normal Bristol. Precipitation near normal statewide. Ranged from 0.45 in. below normal at Knoxville to 0.50 in. above normal at Chattanooga.

Topsoil moisture levels replenished most areas. Soil moisture mostly adequate, with short supplies in some eastern areas. Winter wheat rated good to excellent. Hay, roughage supplies adequate Statewide. Wet, mild conditions favorable for grasses. Spring plowing delayed by rain at times. Insect populations remain active. Conditions ripe for disease, insect problems this Spring. Livestock rated good to excellent. Predator losses unusually high in the east. Coyote attacks on young livestock a problem. Farmers busy with Spring planning, land preparation, meetings, tobacco plant bed preparation, pruning fruit trees, preparing equipment for the season ahead.

TEXAS: Dry spell and unseasonably mild temperatures graced Texas at the start of the week. Then, gulf moisture, associated rain started spreading over southeastern half of State with some heavy rains occurring early 22nd. Showers triggered by cold front, upper level system invaded western counties 23nd. Temperatures above normal with departures 10° or more in northern High Plains, south central districts. All districts reported precipitation, below normal over northern, eastern, coastal areas.

Crops: A few corn fields have been planted in Coastal Bend, South Texas. Warm, dry conditions, planting activities should progress as conditions permit. Corn planting 0% 1992, 1% 1991, 2% avg. Small grain fields responded well to sunshine, warm conditions. Producers in full swing of topdressing fields on Plains. Rust, greenbug problems continued, no economic thresholds yet. Wheat 84% normal compared with 68% 1991.

Commercial Vegetables: Rio Grande Valley, onion harvest expected over next few weeks. Melon planting continued. East Texas, land preparation, planting continued to be delayed by wet conditions. High Plains, land preparation continued for spring vegetable crops.

Range and Livestock: Range and pasture conditions improved due to warm, dry conditions. Forage quantity continue improve, quality remained low. Livestock good shape. Some problems of lice, bloating evident on High Plains. Ryegrass, weeds furnished some grazing, supplemental feeding continued.

UTAH: Temperature maximums normal, minimums 6° above normal. Moderate precipitation was reported in the mountainous areas and Dixie; light to moderate elsewhere.

Major farm activities: Feeding, care of livestock, attending farm meetings, updating farm records, farm equipment repair. Calving was started in most areas. Feed supplies are in generally good. Range, pasture good.

VIRGINIA: Temperatures well above normal. Extremes 20°; 71°. Precipitation 0.50 in. or less.

Days suitable for fieldwork 2.5. Topsoil 10% short, 76% adequate, 14% surplus. Winter grains, grazing 3% very poor, 16% poor, 57% fair, 24% good. Pasture 8% very poor, 26% poor, 51% fair, 15% good. Forage form pastures, grazing crops dairy cattle 8%, beef cattle 17%, sheep 16%. Topdressing small grains, overseeding pasture, maple syrup production, preparing tobacco plantbeds, pruning fruit trees, preparing land for spring planting.

WASHINGTON: Temperatures 0 to 3° above normal west; 1 to 8° above normal east. Precipitation 1.19 to 2.99 in. west; 0.25 to 1.73 in. east.

Days suitable for fieldwork 1.8. Soil moisture 25% short, 65% adequate, 10% surplus. Hay, other roughage 16% short, 66% adequate, 18% surplus. Range, pasture 9% very poor, 11% poor, 30% fair, 45% good, 5% excellent. Winter wheat 24% fair, 76% good. Winter barley 8% fair, 92% good. Last week's dry, warm weather turned cool and wet. Fields in the west were reported saturated causing delays in fieldwork. In the east there was less precipitation, some areas reported standing water. Precipitation was still below seasonal norms in most counties. Rain helped build moisture reserves in the dryland wheat. Pruning progressed in the west, central areas. Calving, lambing progressed. Livestock continued on winter feeding programs.

WEST VIRGINIA: Temperature 44°. Extremes 20°; 72°. Precipitation 0.56 in.

Days suitable for fieldwork 2.9. Soil moisture, 4% very short, 23% short, 62% adequate, 11% surplus. Wheat, good. Barley, good. Hay feed supplies, 6% short, 77% adequate, 17% surplus. Other feed supplies, 18% short, 74% adequate, 8% surplus. Cattle, 8% poor, 2% fair, 90% good. Sheep, 29% poor, 71% good. Cows calved, 32%. Sheep lambed, 41%. Farm activities: General maintenance, plowing, fencing, calving, lambing.

WISCONSIN: Temperature 31°. Extremes -4°; 49°. Above normal temperatures. South, central regions received up to 5 in. of snow on the 17th, 18th; northern areas received 1 in. Mixed precipitation on 20th in the central, north; rain showers in the south. A few flurries across the State on 21st. Light snow in the west, central areas on 23rd.

Late February snow depth 4.2 in.; 4.3 in. 1990; 9.1 in. avg. Frost depth 13.4 in.; 13.6 in. 1990; 17.7 in. avg.

WYOMING: Above normal temperatures statewide. Most areas 5 to 10° above normal. Precipitation was widely scattered across the State. Amounts mostly below normal, except in the northwest.

1992 Winter wheat fair to good. Additional moisture greatly needed. Isolated areas of winter kill reported. Livestock in mostly good. Supplemental feeding continuing. Calving, lambing underway.

International Weather and Crop Summary
HIGHLIGHTS

February 16 - 22, 1992

FORMER USSR: Snow helps protect winter grains from bitter cold.

EUROPE: Beneficial moisture improves soil conditions in southern Spain.

EASTERN ASIA: Winter wheat starts to break dormancy across central China. Favorable moisture conditions exist for early southern rice.

SOUTHEAST ASIA: Rainfall is highly variable over Indonesia and Malaysia. Dryness persists in the Philippines.

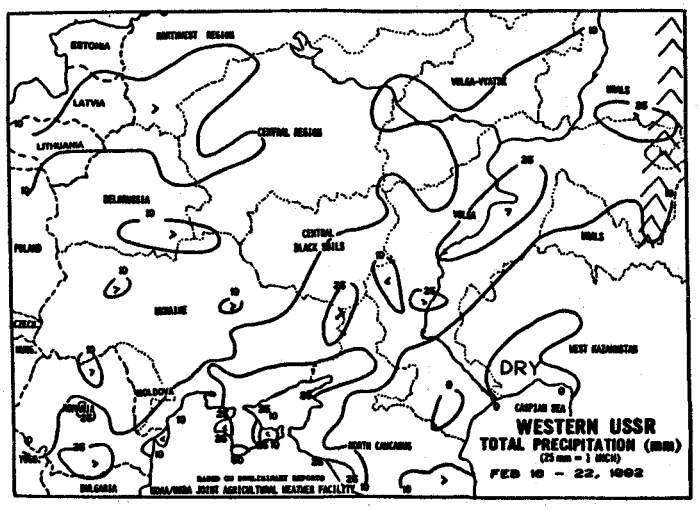
SOUTH ASIA: Dry, cool weather slows growth of reproductive to filling grains and oilseeds.

SOUTH AMERICA: Favorable conditions continue for soybeans and corn in Argentina and Brazil.

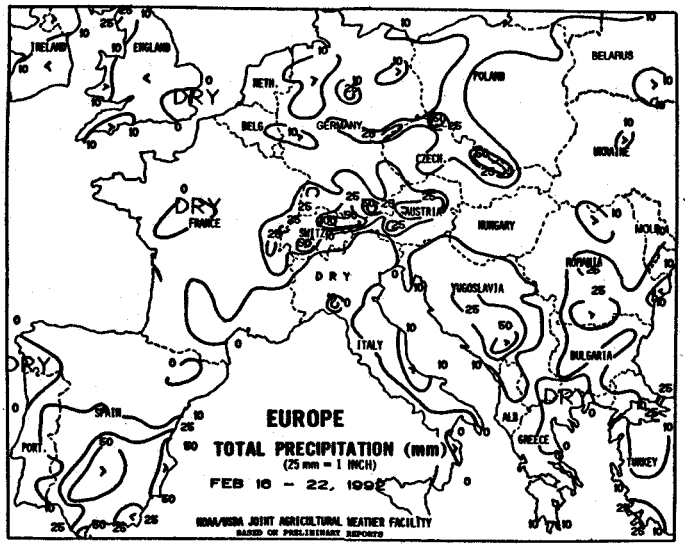
AUSTRALIA: Moisture is becoming limited for eastern summer crops.

NORTHWESTERN AFRICA: Showers sweep across the region, easing stress on winter grains in northern Morocco.

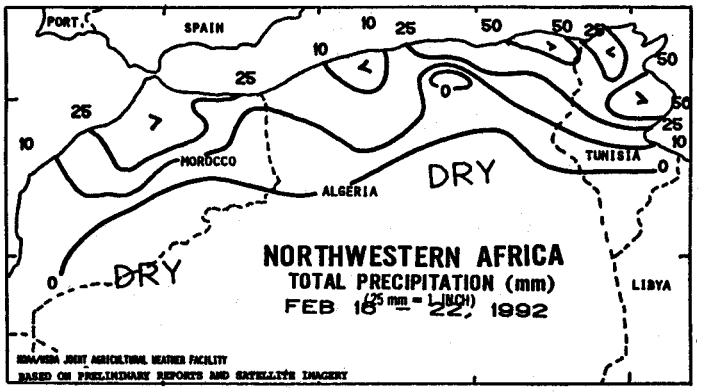
SOUTH AFRICA: Rain brings relief to South Africa's eastern corn and sugarcane.



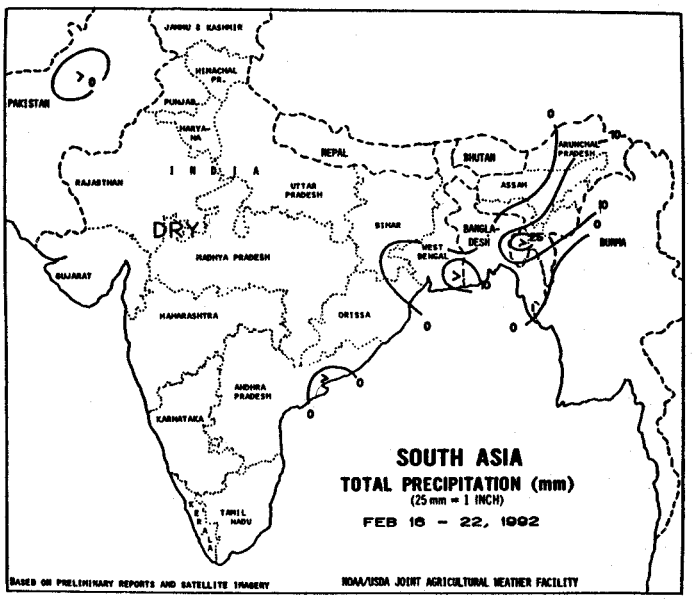
FORMER USSR: Precipitation covered all winter grain areas, with heaviest amounts (20-43mm) in eastern Ukraine, northern North Caucasus, and the Volga Valley. Variable amounts of precipitation (2-19mm) fell elsewhere, providing some additional snow cover for the dormant winter crops. Weekly temperatures averaged 1-4 degrees Celsius (C) above normal in the eastern Ukraine, North Caucasus, lower Volga, and Black Soils Region. Weekly temperatures averaging 2-4 degrees C below normal prevailed across the north. The snow cover helped protect winter grains from much colder air that pushed into the region during the latter part of the week. Minimum temperatures fell below -20 degrees C across the north from Belorussia to the middle Volga Valley. In the Ukraine, minimum temperatures ranged from -5 degrees C in the south to -20 degrees C in the northeast. Light snow preceded the cold weather in western crop areas.



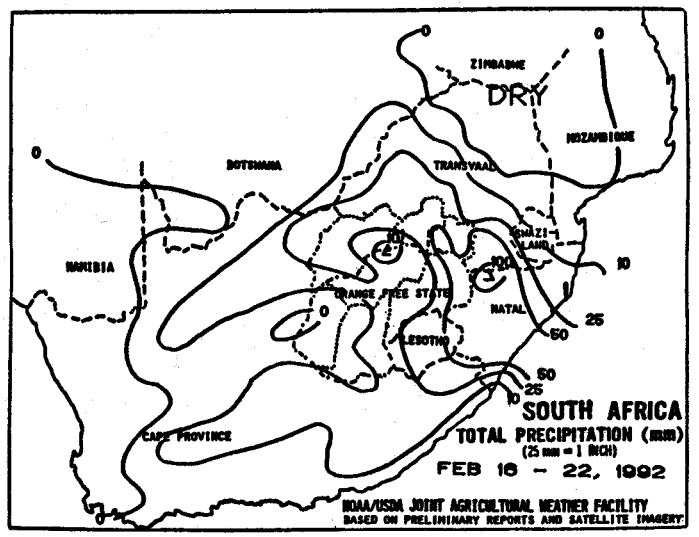
EUROPE: Significant rain (25-50mm or more) fell in southern Spain, moistening soils and helping irrigation supplies for cotton and other summer crop planting which will begin soon. Mostly light showers (5mm or less) fell over the remainder of the Mediterranean region. In the Balkans, 10-50mm of precipitation improved topsoil moisture in Yugoslavia, southern Romania, and much of Bulgaria. Drier weather returned to France and Belgium, while beneficial precipitation (10-50mm) was scattered over Germany, Poland, and Czechoslovakia. Light showers covered all northern crop areas, where winter wheat is still dormant. Weekly temperatures averaged 1-4 degrees C below normal throughout most of the region. Above-average weekly temperatures were confined to Italy, Greece, and extreme northern portions of the continent.



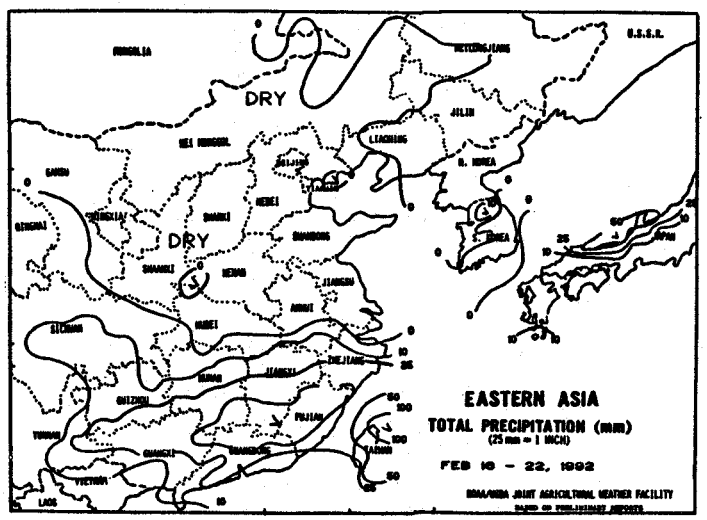
NORTHWESTERN AFRICA: Beneficial rain (25-48mm) brought some relief to jointing winter grains in Morocco's northeastern crop areas. However, rainfall continued light (2-17mm) over crop areas to the southwest. Widespread, soaking rain is still needed for Morocco's winter grains following this season's dismal precipitation accumulations. Light to moderate rain (10-25mm or more) benefited Algeria's winter grains, with heaviest rain (25-63mm) reported in eastern crop areas nearest the coast. In Tunisia, rainfall ranged from 22 to 45mm over primary winter grain areas, improving soil moisture reserves. Temperatures averaged near normal in Algeria and Tunisia but were slightly above normal in Morocco, with highs in the mid to upper 20's C, promoting crop growth and moisture demand.



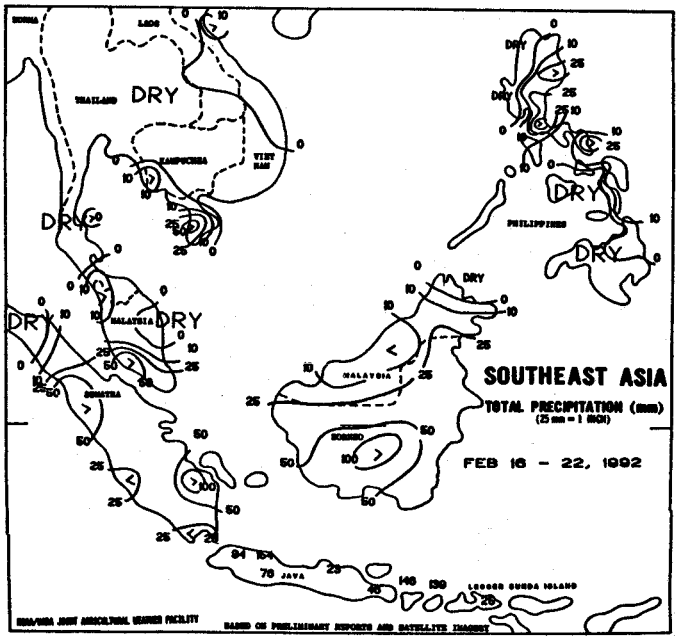
SOUTH ASIA: Following weeks of beneficial rainfall, seasonably dry weather returned to winter grain and oilseed areas of Pakistan and north-central India. Further east, only scattered, light rain (1-23mm) fell over India's eastern rice areas. Across the region, cooler-than-normal temperatures continued to slow growth of reproductive to filling winter crops, with minimum temperatures dipping below 5 degrees C in local crop areas of northern and central India.



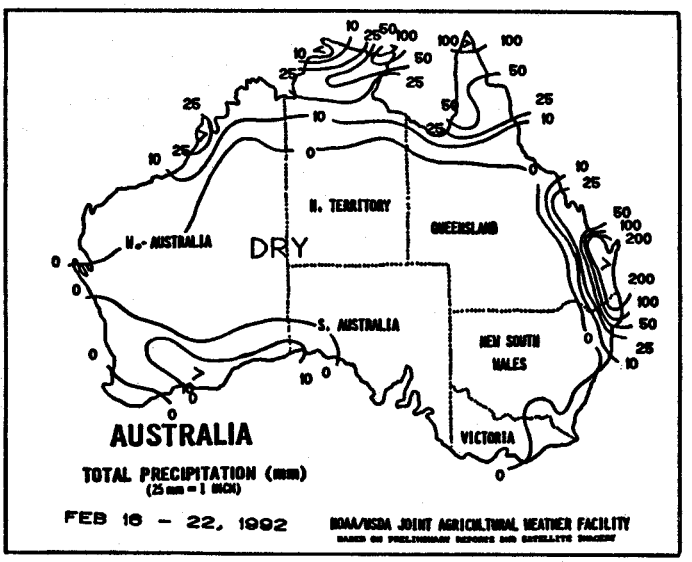
SOUTH AFRICA: Much needed rain fell over South Africa's primary crop regions, benefiting drought-stressed immature grains and sugarcane. Rainfall totaled 10-60mm over the eastern half of the corn belt, benefiting later planted crops advancing through moisture-sensitive stages of development. Temperatures in the east were seasonable, with highs ranging from 26 to 33 degrees C. Further west, scattered showers (5-44mm) improved local moisture conditions, but temperatures continued their warmer-than-normal (highs of 35-38 degrees C) trend. Much of the crop in the west has already suffered irreversible damage. In Natal, heavy showers (50-119mm) covered primary corn and sugarcane regions. Lighter rain (7-21mm) fell from Natal's southern tip through crop areas of the Cape Province.



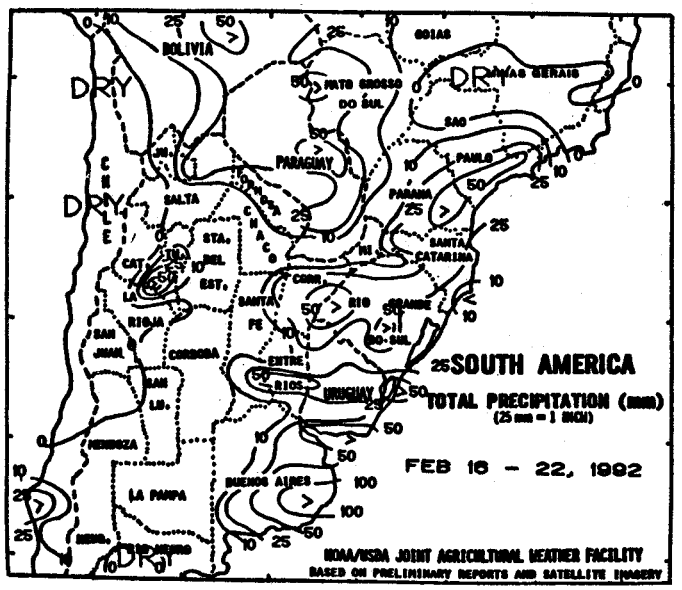
EASTERN ASIA: Warmer temperatures spread across the North China Plain grain belt, prompting wheat to break dormancy in the southern crop areas. The majority of the crop is probably 2-4 weeks from breaking dormancy. Little or no rain fell across the region, where rain is needed to encourage early spring growth of wheat. Moderate rain (25-55mm) continued across southern China, benefiting reservoirs and sugarcane. Favorable moisture supplies exist for transplanting of early double-crop rice which begins in March.



SOUTHEAST ASIA: Shower activity was highly variable over Malaysia and Indonesia, but moderate to heavy amounts (25-100mm or more) benefited much of southern Indonesia, including Java's rice areas. Similar totals occurred in southern oil palm areas of western Malaysia, but drier weather dominated the remainder of the region. In the Philippines, unseasonable dryness persisted, with only light rain (5-25mm) falling over primary grain and plantation crop regions. More rain is needed throughout the country for upcoming plantings and for secondary rice crops growing with limited moisture.



AUSTRALIA: Dry and warm conditions returned to the eastern summer crop areas, where moisture is becoming limited for vegetative to reproductive cotton and sorghum. While the region did receive some previous favorable rains, soil moisture supplies have been deficient all season, making crops vulnerable to warm and dry spells. A weak tropical depression, with sustained winds less than 35 knots (40 mph), made landfall along the eastern coast of Queensland (near Brisbane), dumping locally heavy rain (100-229mm). The rain caused local flooding and possibly some minor damage to sugarcane, but was overall beneficial to sugarcane. Further north, only scattered rain (10-33mm) fell across the main sugarcane region, which has been receiving below-normal rainfall. Weekly normal rainfall in that region averages between 50-75mm. Weekly temperatures averaged 1-3 degrees C above normal across the major eastern crop areas.

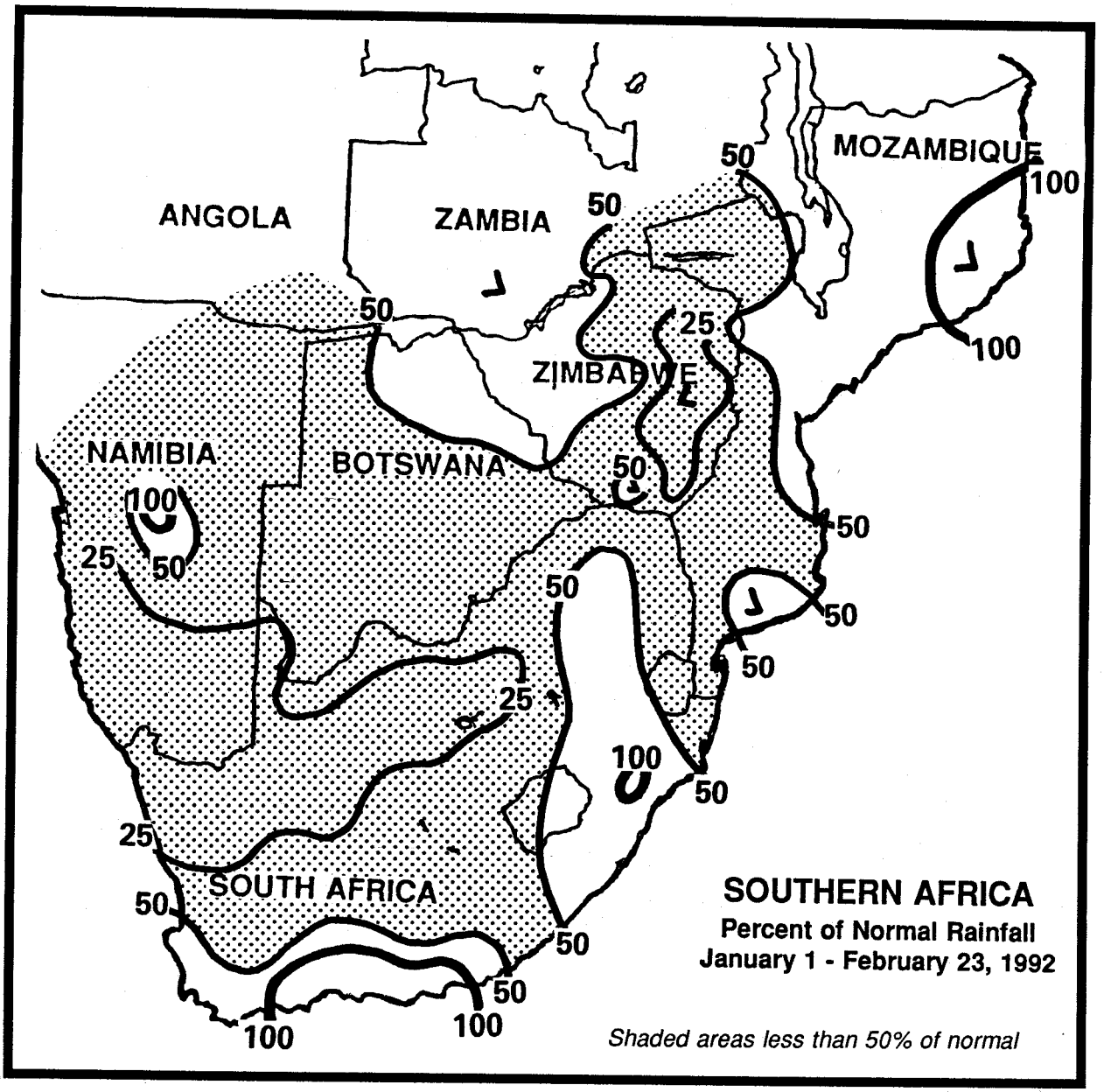


SOUTH AMERICA: In southern Brazil, light to moderate rain (7-30mm) fell across western Parana and Rio Grande do Sul, aiding reproductive to pod-filling soybeans. Northern Sao Paulo's main crop areas received little or no rainfall during the past 2 weeks, where moisture is needed for cotton and citrus crops. Meanwhile, dry conditions in Minas Gerais were favorable due to previous heavy rain. In Argentina, scattered moderate to heavy rain (35-90mm) fell across southern Santa Fe to southern Buenos Aires, with the heaviest rain (190mm) reported in southeastern Buenos Aires. Other regions received only light rain (less than 10mm). Maximum temperatures were in the mid 30's C for 3-4 days, but there was adequate soil moisture. Crop prospects are still favorable for corn and soybeans. Weekly temperatures averaged 2-3 degrees C above normal across the major crop areas of Argentina and southern Brazil.

Drought Intensifies Across Southern Africa

Relentless heat and dryness has devastated agriculture across southern Africa. Though showers last week brought some relief to drought-afflicted crop areas of Lesotho, Swaziland, and South Africa (see "Drought Persists in South Africa" in last week's issue of the Weekly Weather and Crop Bulletin), growing conditions worsened to the north. February 24 marked the 21st consecutive day without rain across much of Zimbabwe, which lies at the center of the drought. With cumulative rainfall since January 1 less than 25 percent of normal in some prime growing areas of the country, the outlook for corn and other summer crops is extremely poor in Zimbabwe. In addition, this latest dry spell has expanded the drought deep into Botswana, Mozambique, Namibia, and southern parts of Malawi and Zambia.

--Douglas Le Comte



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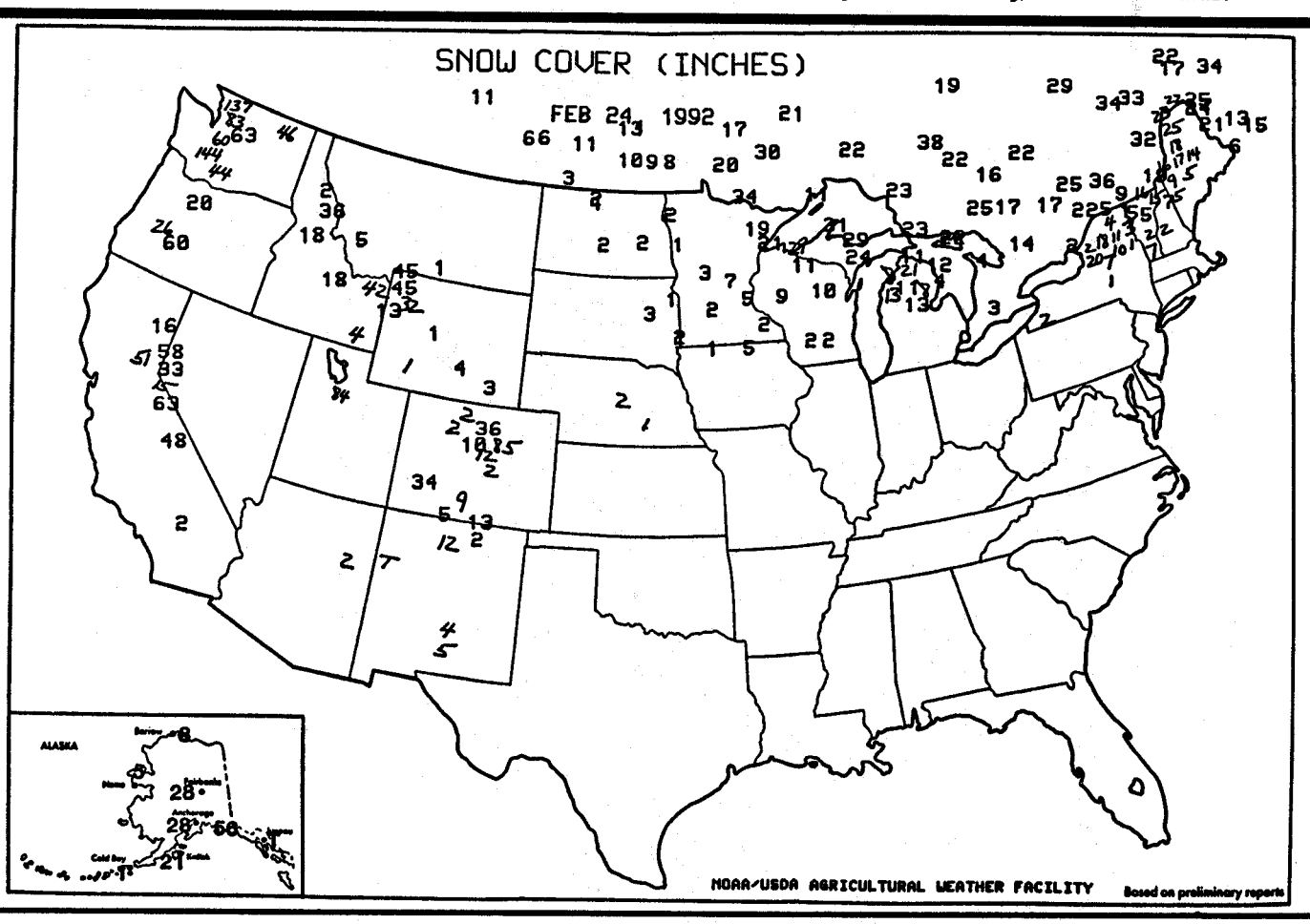

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