

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

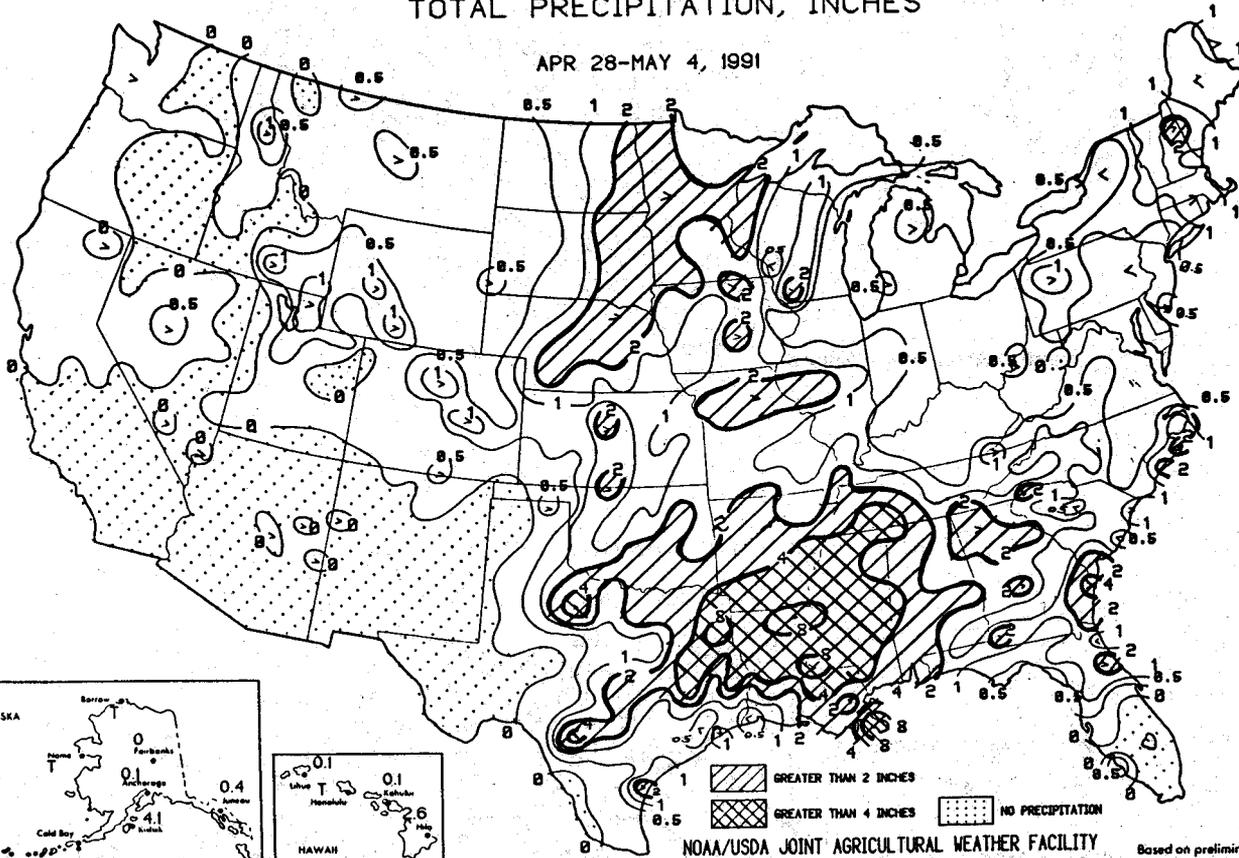
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May 7, 1991

TOTAL PRECIPITATION, INCHES

APR 28-MAY 4, 1991



NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY

Based on preliminary reports

HIGHLIGHTS

April 28 - May 4, 1991

The parade of strong storm systems progressed unabated. Intense Sunday morning thunderstorms deposited greater than 5 inches of rain in **northern Louisiana**, reintroducing major flooding. Residual flooding continued through the week near numerous rivers, lakes, and bayous in **northern Louisiana** and **southern Arkansas**. Early-week rains caused flash flooding in **northeastern Kansas** and in parts of the **Southeast**. Nearly 6 inches of rain drenched **Greenwood, MS**, on Sunday. Strong thunderstorms edged eastward across the **Southeast**, reaching the **southern Atlantic coast** by midweek. Meanwhile, snow tapered to flurries in the **central and northern High Plains**, and a band of heavy rain lifted from the **central Great Plains** to **Minnesota**. Snowfall reached 7 inches in **Denver, CO**, and rainfall exceeded an inch from **southern Nebraska** to **central Minnesota**. The

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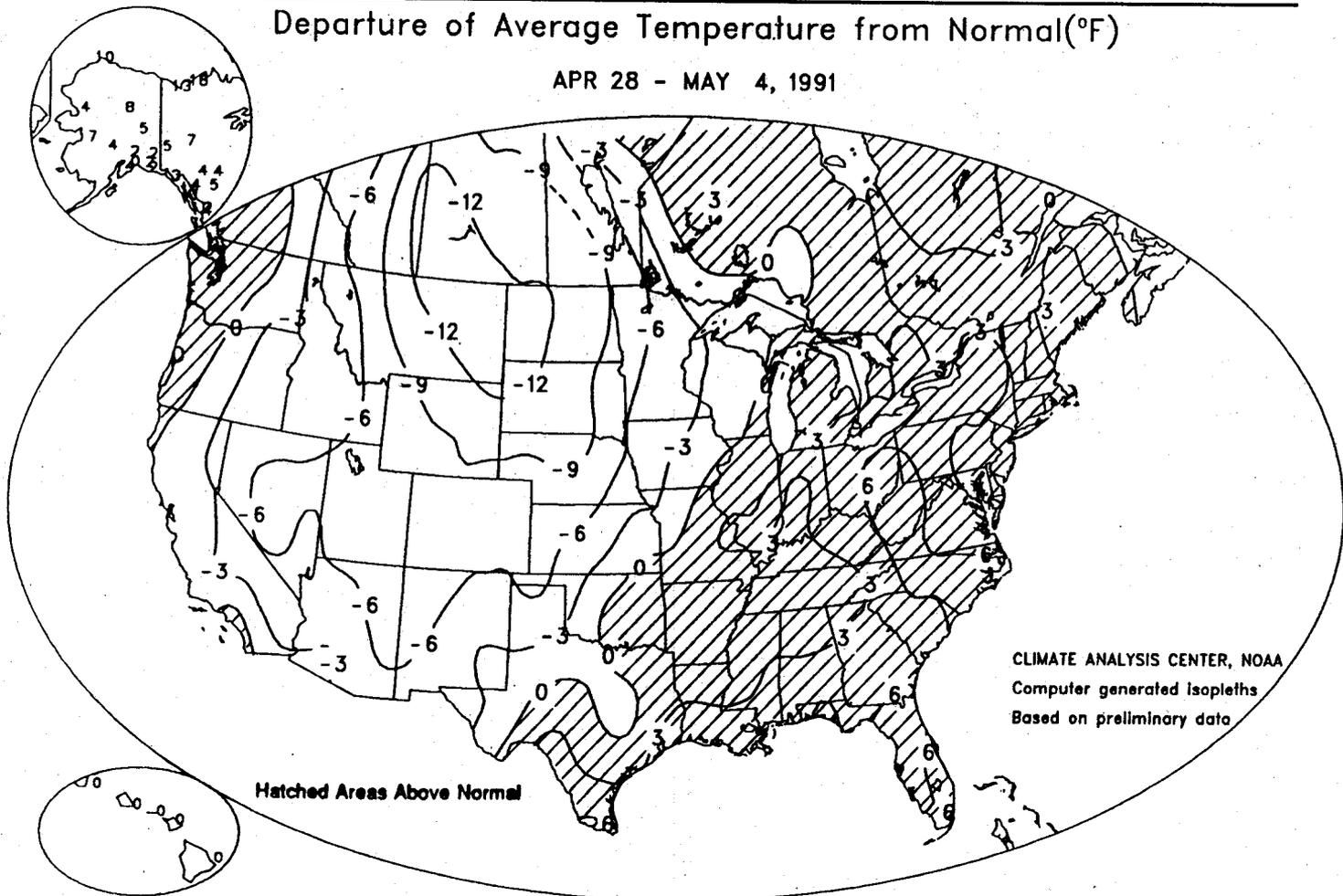
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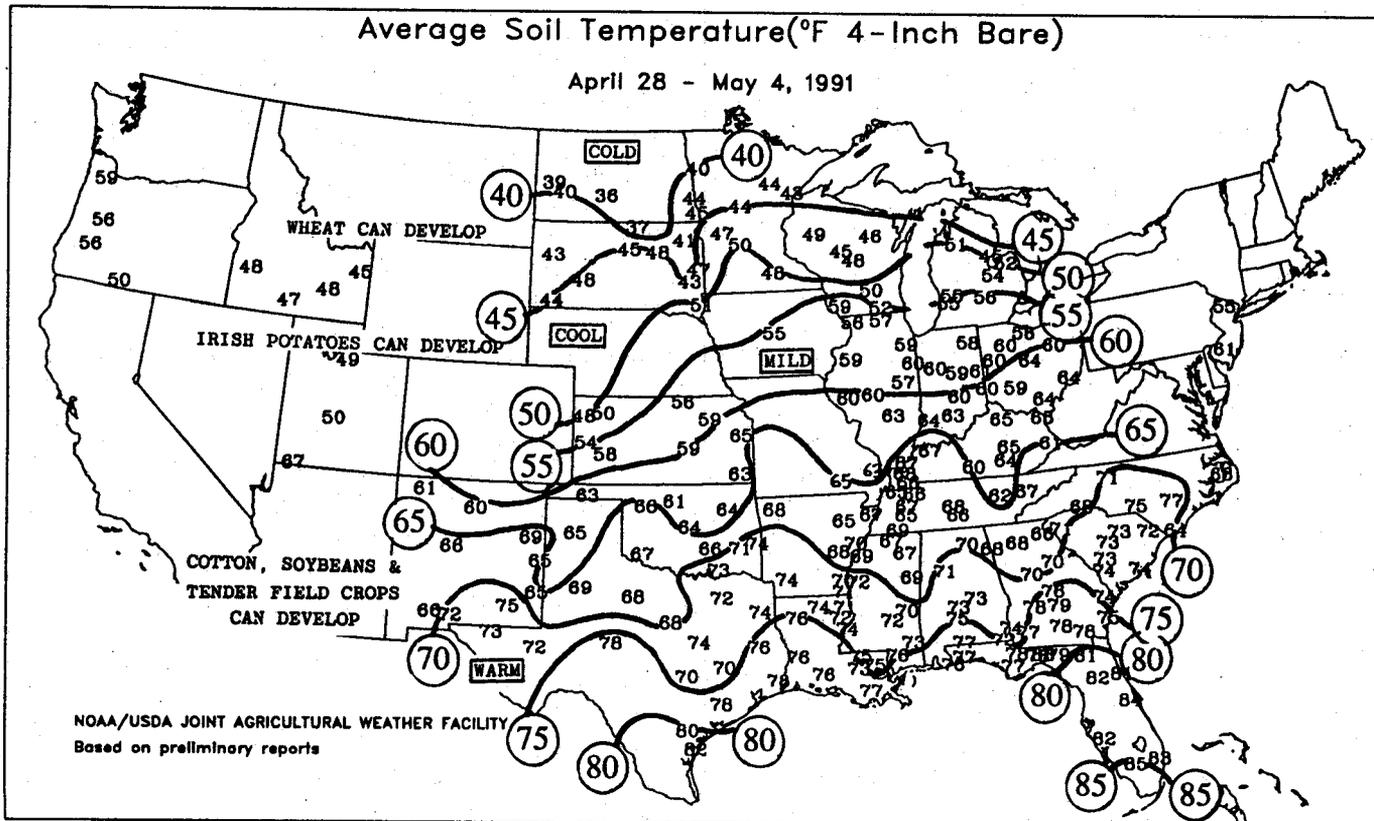
Departure of Average Temperature from Normal(°F)

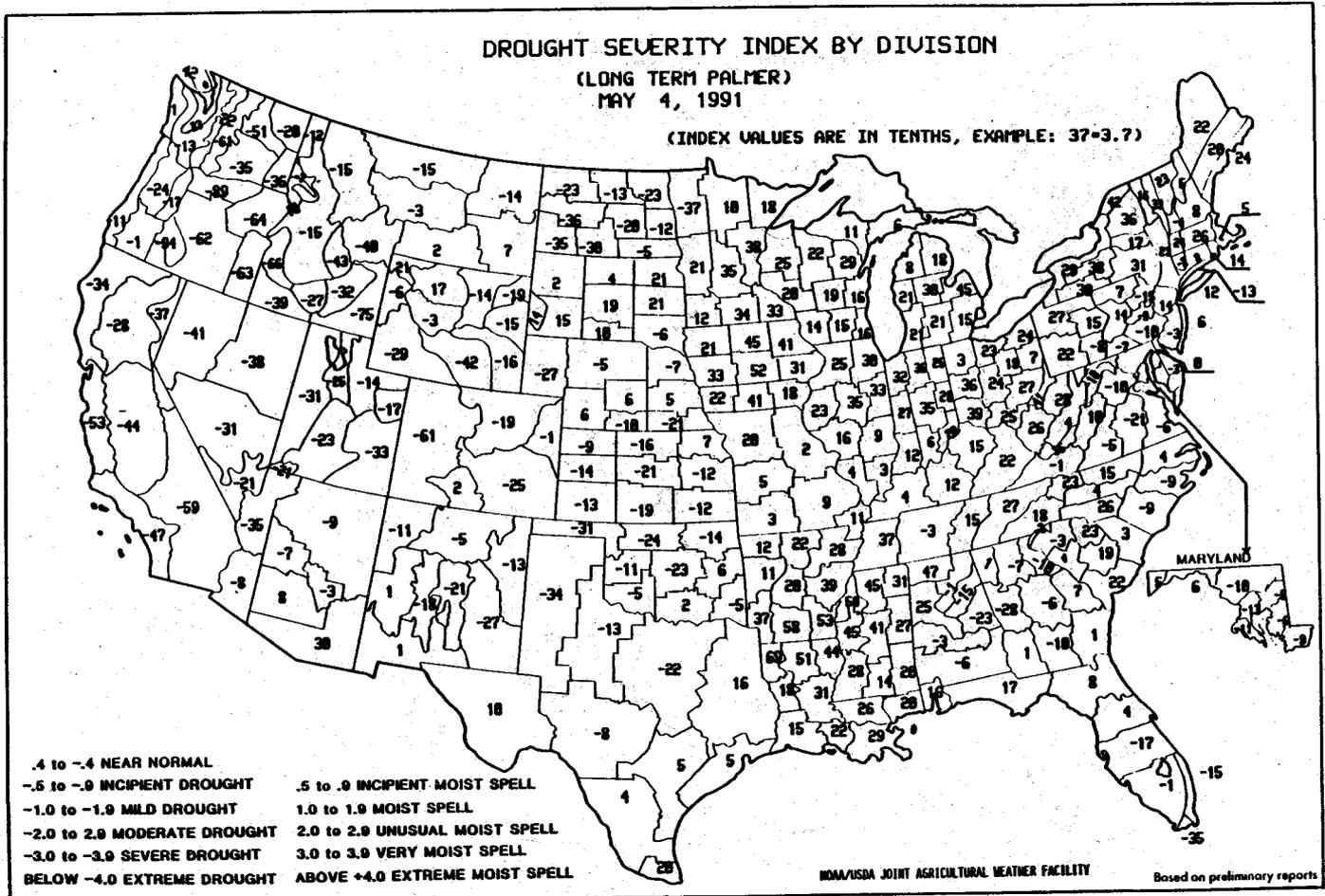
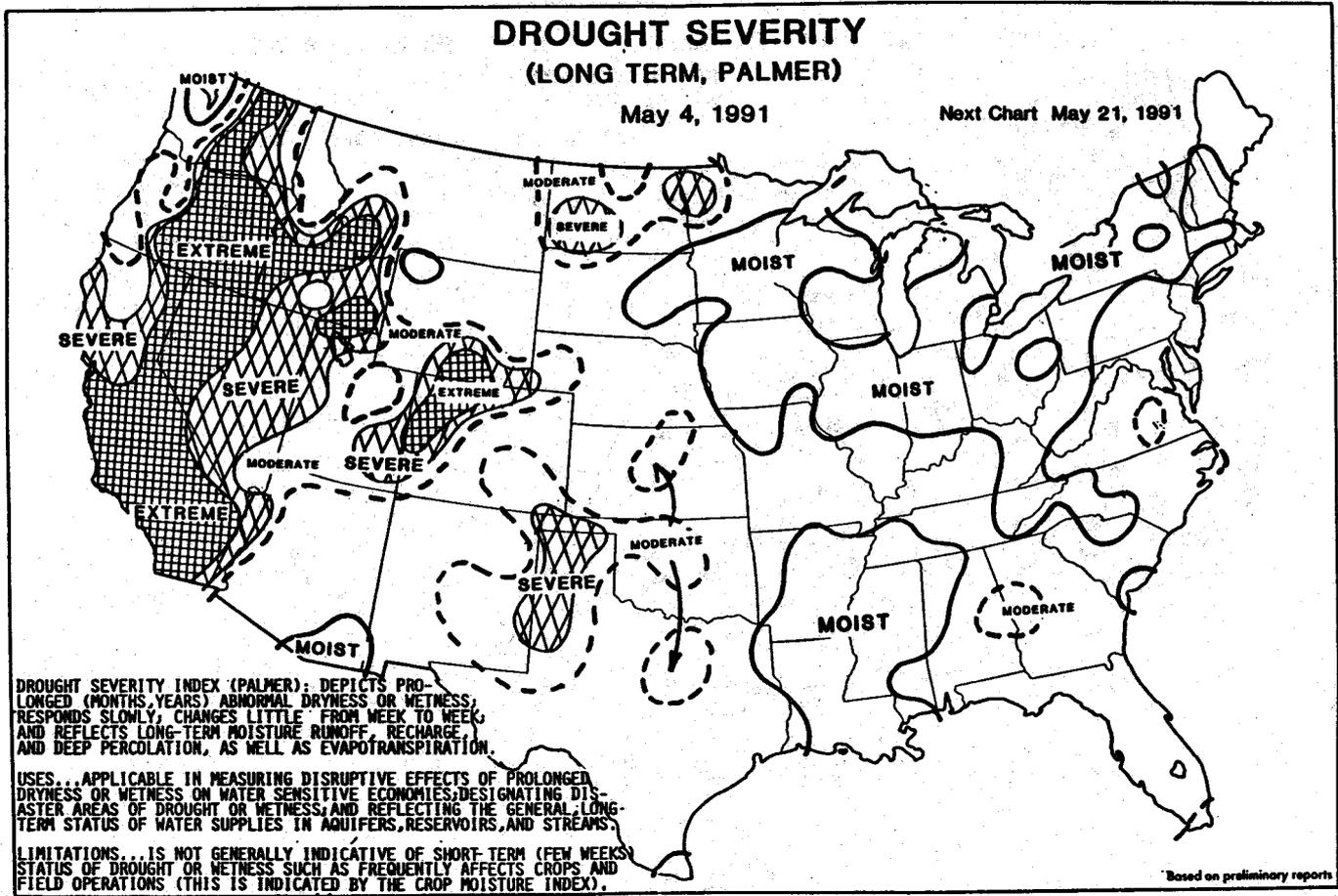
APR 28 - MAY 4, 1991

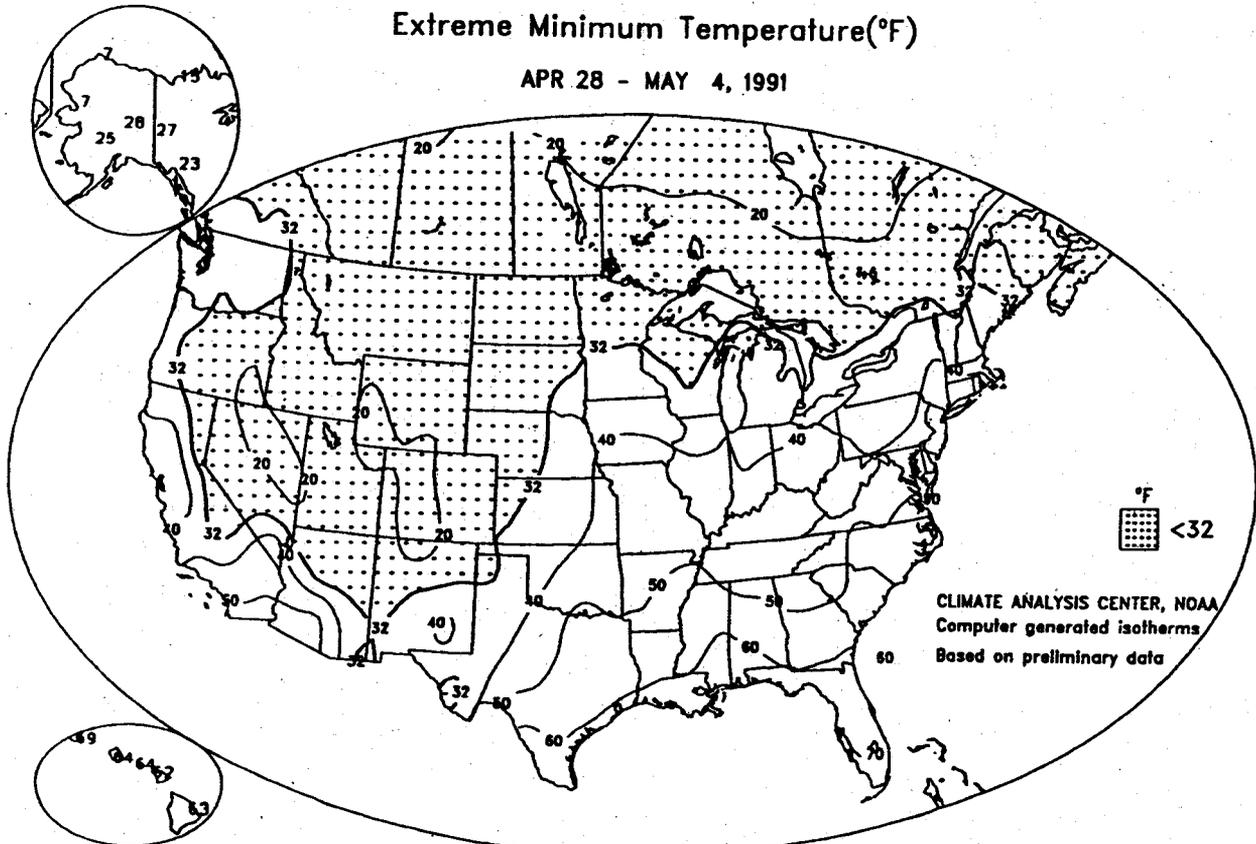
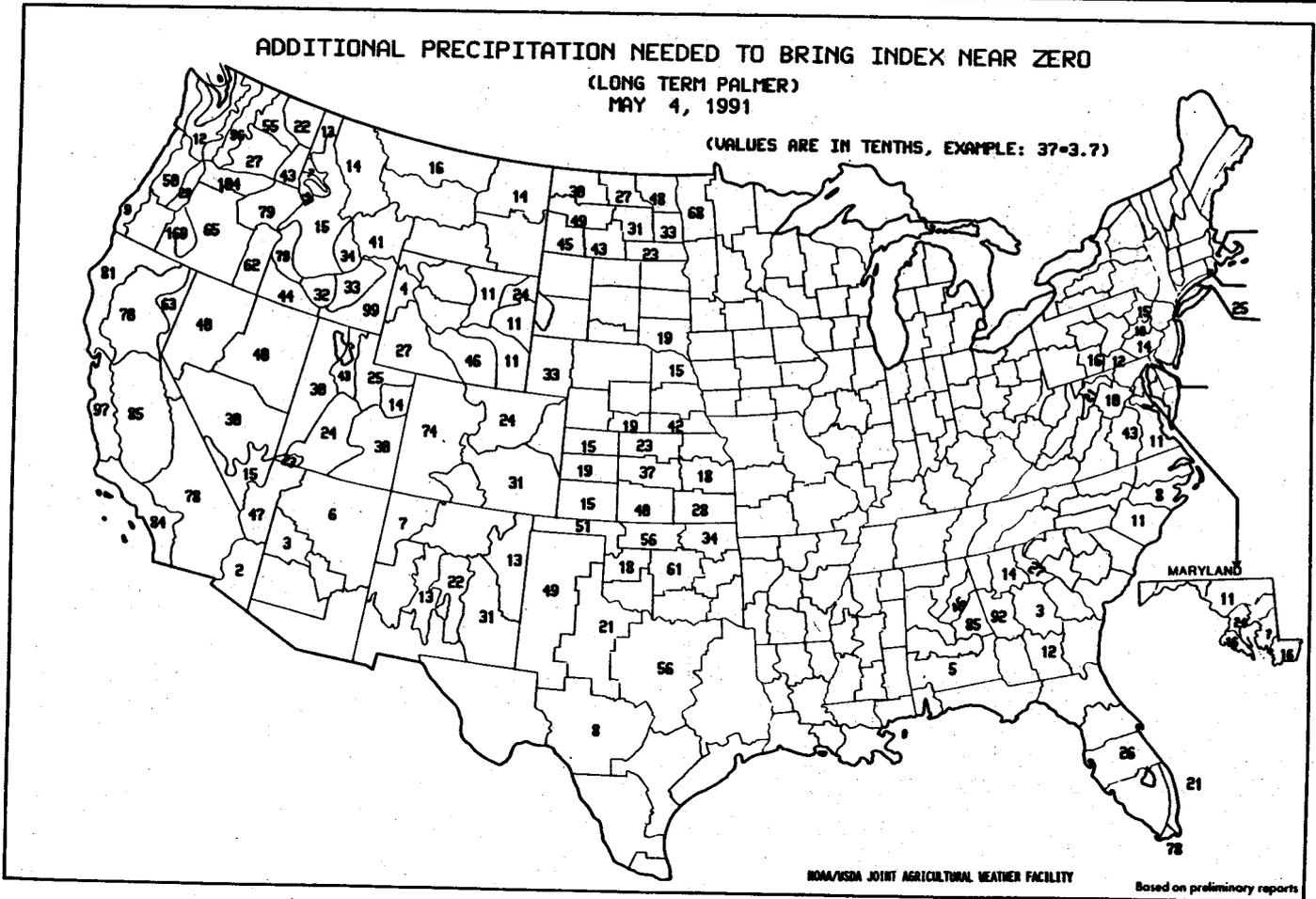


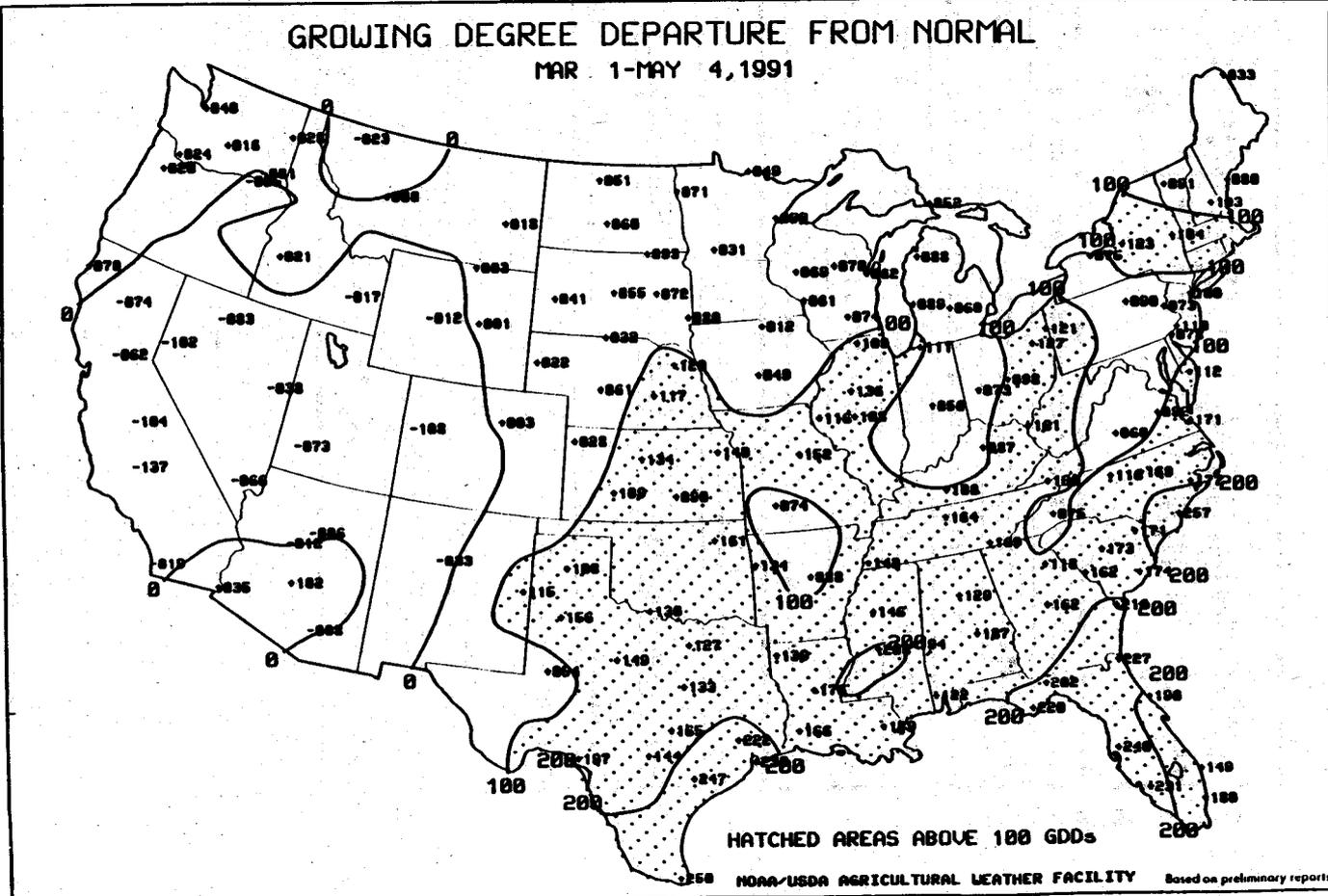
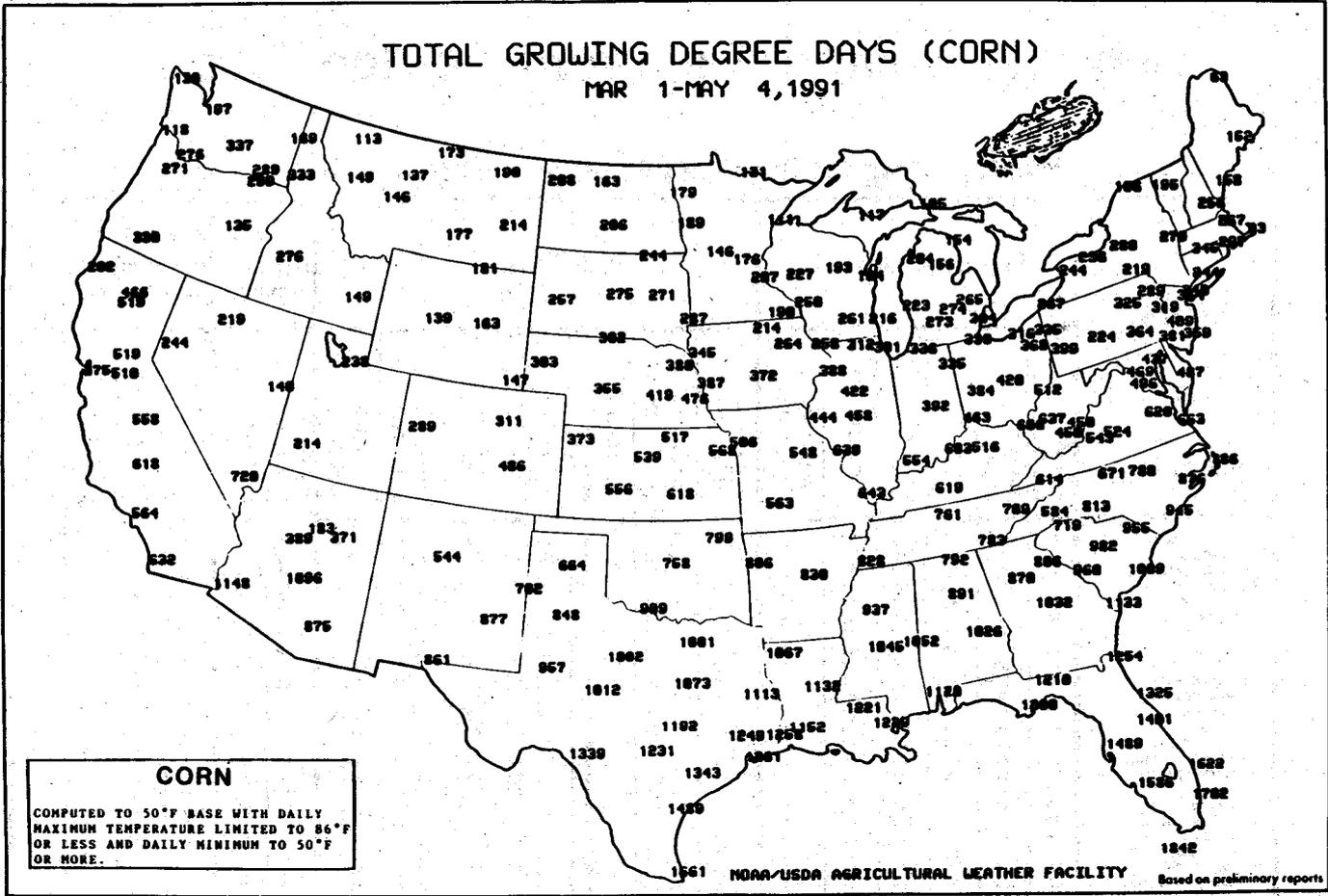
Average Soil Temperature(°F 4-Inch Bare)

April 28 - May 4, 1991









National Weather Data for Selected Cities

Weather Data for the Week Ending May 4, 1991

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS								
	AVERAGE	MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Mar 1	PCT. NORMAL SINCE Mar 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE	MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE		.50 INCH OR MORE	
																				TEMP. °F	PRECIP.		
AL BIRMINGHAM	78	59	82	49	69	2	1.9	.9	1.0	9.9	81	17.4	79	97	59	0	0	0	0	0	4	2	
MOBILE	82	67	85	62	75	3	2.4	1.2	1.7	15.6	125	35.0	159	99	68	0	0	0	0	0	3	1	
MONTGOMERY	83	62	86	57	73	4	2.6	1.6	1.4	15.0	139	26.1	134	97	55	0	0	0	0	0	3	2	
AK ANCHORAGE	49	35	53	31	42	1	.1	.0	.1	1.0	73	2.0	68	90	53	0	0	2	2	3	0	0	
BARROW	25	14	36	7	19	10	.0	.0	.0	.0	.0	.3	36	95	79	0	0	2	2	1	0	0	
FAIRBANKS	58	34	64	29	46	5	.0	.1	.0	2.2	31	3.6	214	73	26	0	0	2	2	1	0	0	
JUNEAU	56	38	65	33	47	4	.4	.4	.2	8.2	320	19.7	140	97	46	0	0	2	2	1	0	0	
KODIAK	43	38	45	37	41	1	4.1	3.0	1.4	11.1	135	31.9	167	97	82	0	0	0	0	7	3	0	
NOME	44	30	47	27	37	9	.0	.1	.0	1.2	99	2.8	111	91	61	0	0	6	6	1	0	0	
AZ PHOENIX	85	58	94	54	71	-1	.0	.0	.0	.0	.0	.0	137	30	9	2	2	0	0	0	0	0	0
PRESCOTT	66	34	72	29	50	-3	.0	.1	.0	1.2	192	3.2	137	30	9	0	0	4	4	1	0	0	
TUCSON	82	47	89	41	64	-5	.0	.1	.0	4.0	170	6.2	110	48	15	0	0	4	4	0	0	0	
YUMA	87	60	94	54	73	-1	.0	.0	.0	1.4	137	3.5	142	34	7	0	0	4	4	0	0	0	
AR FORT SMITH	80	56	84	49	68	2	1.9	.9	.9	8.8	275	1.8	206	30	12	4	4	0	0	0	0	0	
LITTLE ROCK	77	61	83	56	69	2	2.1	.9	.9	12.4	143	15.4	118	93	37	0	0	0	0	4	2	2	
CA BAKERSFIELD	77	46	90	39	61	-5	.0	.1	.0	1.3	14.6	135	22.8	123	85	55	0	0	0	4	2	2	
EUREKA	57	46	60	42	51	1	.4	.1	.0	3.8	239	4.6	126	68	24	1	0	0	0	0	0	0	
FRESNO	77	47	87	44	62	-2	.4	.1	.2	9.6	117	14.0	69	88	66	0	0	0	0	2	0	0	
LOS ANGELES	70	54	82	49	62	1	.0	.2	.0	7.3	260	8.4	126	78	22	0	0	0	0	0	0	0	
REDDING	75	46	81	43	61	-4	.4	.1	.0	4.0	147	7.9	96	80	43	0	0	0	0	0	0	0	
SACRAMENTO	74	47	83	42	61	-1	.2	.3	.1	10.3	129	15.2	67	80	29	0	0	0	0	2	0	0	
SAN DIEGO	70	55	77	54	63	0	.0	.1	.0	6.5	191	10.0	97	89	35	0	0	0	0	1	0	0	
SAN FRANCISCO	65	49	81	46	57	1	.0	.0	.0	7.3	278	10.4	165	82	46	0	0	0	0	0	0	0	
CO DENVER	57	34	67	31	46	-7	1.2	.7	.9	3.0	91	3.9	87	86	53	0	0	0	0	1	0	0	
GRAND JUNCTION	61	34	74	25	47	-9	1.1	.7	.1	1.6	105	2.6	98	72	24	0	0	2	2	4	1	0	
PUEBLO	67	36	86	31	51	-5	.5	.2	.3	1.3	94	1.8	78	77	21	0	0	3	3	0	0	0	
CT BRIDGEPORT	60	49	70	46	55	1	.5	.5	.4	7.3	91	12.0	84	83	58	0	0	0	0	2	0	0	
HARTFORD	65	47	74	43	56	2	1.0	.2	1.0	8.1	94	12.3	80	82	41	0	0	0	0	1	1	0	
DC WASHINGTON	74	55	81	51	64	2	.2	.6	.1	5.8	86	9.6	79	82	42	0	0	0	0	2	0	0	
FL APALACHICOLA	84	68	86	65	76	5	.3	.3	.1	19.7	257	43.9	296	100	73	0	0	0	0	1	0	0	
DAYTONA BEACH	88	68	92	62	78	6	1.7	1.1	1.7	15.3	277	19.2	175	97	55	4	0	0	0	1	1	0	
JACKSONVILLE	91	68	94	63	80	7	2.1	1.3	1.4	15.0	218	26.7	200	96	48	5	0	0	3	2	1	0	
KEY WEST	87	79	89	77	83	4	.0	.5	.0	4.4	145	6.9	103	79	62	0	0	0	0	1	0	0	
MIAMI	87	76	88	72	82	4	.0	.1	.0	7.5	131	11.1	113	80	55	0	0	0	0	0	0	0	
ORLANDO	90	71	91	67	81	6	.1	.4	.1	14.5	247	17.9	160	95	45	5	0	0	1	0	0	0	
TALLAHASSEE	87	65	90	59	76	5	.6	.4	.5	19.0	185	38.8	195	99	58	1	0	0	2	0	0	0	
TAMPA	91	73	93	69	82	8	.2	.3	.2	6.5	117	9.3	87	94	51	7	0	0	1	0	0	0	
WEST PALM BEACH	87	75	88	72	81	5	.0	.0	.0	12.9	199	27.7	235	87	60	0	0	0	0	0	0	0	
GA ATLANTA	82	60	85	53	71	5	2.4	1.4	1.0	13.2	122	21.0	104	93	49	0	0	0	5	2	0	0	
AUGUSTA	85	59	88	50	72	5	.7	.1	.5	11.8	137	21.3	128	98	55	0	0	0	4	0	0	0	
MACON	85	61	90	51	73	4	1.6	.8	.8	14.5	158	27.2	152	98	51	1	0	0	3	2	0	0	
SAVANNAH	88	65	92	57	77	7	4.0	3.1	2.9	16.3	216	25.5	185	97	51	1	0	0	4	2	0	0	
HI HILO	80	66	81	63	73	0	2.6	.0	1.1	49.4	176	62.5	123	93	62	0	0	0	4	2	0	0	
HONOLULU	84	69	85	64	77	1	.0	.0	.0	7.2	141	10.1	87	78	46	0	0	0	1	0	0	0	
KABULUI	83	67	84	62	75	0	.1	.0	.1	2.8	73	7.7	71	85	54	0	0	0	1	0	0	0	
LIBUE	79	70	80	69	75	0	.1	.6	.1	13.1	161	15.4	85	83	62	0	0	0	3	0	0	0	
ID BOISE	63	35	69	29	49	-4	.2	.1	.2	2.4	102	3.8	76	76	25	0	0	3	1	0	0	0	
LEWISTON	67	39	74	33	53	-1	.1	.3	.7	1.9	82	2.4	51	81	24	0	0	0	0	0	0	0	
POCATELLO	54	33	68	30	44	-6	1.0	.7	.7	5.7	259	6.7	162	97	44	0	0	4	4	1	0	0	
IL CHICAGO	65	47	74	40	56	2	.2	.6	.2	7.6	109	9.6	99	85	49	0	0	0	3	0	0	0	
MOLINE	70	46	80	37	58	1	.2	.8	.2	10.1	140	11.7	116	83	37	0	0	0	1	0	0	0	
PEORIA	71	48	79	40	59	2	.7	.2	.3	7.1	99	8.9	87	96	38	0	0	0	5	0	0	0	
QUINCY	69	50	77	44	59	1	2.3	1.3	1.8	7.4	98	8.3	80	85	46	0	0	0	4	1	0	0	
ROCKFORD	65	43	77	34	54	0	.0	.9	.0	6.9	95	8.5	87	86	46	0	0	0	2	0	0	0	
SPRINGFIELD	70	51	77	43	61	1	2.8	1.9	1.3	8.4	111	10.4	96	98	48	0	0	0	6	3	0	0	
IN EVANSVILLE	74	53	79	41	64	3	.4	.6	.2	6.9	75	13.0	85	98	53	0	0	0	3	0	0	0	
FORT WAYNE	68	48	77	40	58	3	.4	.4	.3	8.2	117	11.3	102	90	47	0	0	0	3	0	0	0	
INDIANAPOLIS	69	51	77	40	60	2	.5	.3	.2	11.1	144	14.6	114	94	56	0	0	0	5	0	0	0	
SOUTH BEND	67	48	75	36	58	3	.5	.3	.3	7.7	103	11.2	94	87	48	0	0	0	3	0	0	0	
IA DES MOINES	65	45	75	42	55	-2	2.0	1.2	.8	12.5	214	13.6	172	86	51	0	0	0	4	2	0	0	
STIOUX CITY	58	41	72	36	50	-7	1.3	.7	.7	6.4	147	7.3	123	90	55	0	0	0	5	1	0	0	
WATERLOO	62	42	74	35	52	-2	1.8	.9	1.1	12.6	201	13.7	171	94	54	0	0	0	4	2	0	0	
KS CONCORDIA	65	42	80	37	54	-5	.9	.2	.4	4.5	99	5.3	88	92	55	0	0	0	6	0	0	0	
DODGE CITY	67	42	80	37	55	-5	.4	.2	.2	2.0	60	2.5	55	90	42	0	0	0	4	0	0	0	
GOODLAND	58	35	77	27	47	-7	.9	.4	.5	2.5	102	2.9	91	90	45	0	0	2	5	0	0	0	
TOPEKA	71	48	81	43	59	-1	1.5	.7	.8	7.3	127	8.1	105	91	49	0	0	0	2	2	0	0	
WICHITA	70	47	81	36	58	-3	.9	.2	.6	3.8	78	4.9	76	92	50	0	0	0	3	1	0	0	
KY BOWLING GREEN	74	53	79	42	64	1	.3	.6	.1	7.4	72	17.9	95	95	54	0	0	0	3	0	0	0	
LEXINGTON	73	54	77	45	64	4	.4	.5	.2	8.8	93	15.2	94	87	51	0	0	0	4	0	0	0	
LOUISVILLE	76	56	80	44	66	4	.4	.5	.2	7.6	81	14.6	92	90	48	0	0	0	4	0	0	0	
LA ALEXANDRIA	82	66	87	59	74	3	7.8	6.5	3.9	24.7	222	38.7	191	97	63	0	0	0	5	4	3	0	
BATON ROUGE	83	68	88	61	75	4	4.4	3.2	3.0	13.8	126	31.3	153	97	69	0	0	0	4	3	0	0	
LAKE CHARLES	82	69	84	60	76	4	.9																

Weather Data for the Week Ending May 4, 1991

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	TEMP. °F		PRECIP.	
																		90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
SHREVEPORT	83	61	85	52	72	2	5.9	4.8	4.3	29.3	322	42.1	254	94	57	0	0	0	0	3	2
ME CARIBOU	55	36	63	26	46	2	1.0	.4	.3	8.1	151	11.3	115	86	52	0	0	2	0	4	0
PORTLAND	58	42	64	38	50	2	1.1	.1	1.1	13.0	156	17.7	114	90	55	0	0	0	0	3	1
MD BALTIMORE	72	51	80	45	62	3	.1	-.7	.0	7.4	99	11.7	87	92	47	0	0	0	0	3	0
SALISBURY	74	51	80	44	63	4	.1	-.6	.1	9.2	119	16.1	112	98	50	0	0	0	0	3	0
MA BOSTON	63	47	72	44	55	2	1.0	.2	1.0	9.2	111	14.0	88	85	42	0	0	0	0	1	1
CHATEAM	56	44	65	40	50	1	.8	-.1	.8	8.5	100	13.8	82	85	63	0	0	0	0	2	1
MI ALPENA	55	41	63	32	48	1	.1	-.5	.1	5.7	119	7.1	91	92	50	0	0	1	1	3	0
DETROIT	66	49	76	38	58	4	.2	-.5	.2	4.3	71	6.7	70	84	50	0	0	0	0	2	0
FLINT	64	46	76	35	55	3	.1	-.6	.1	7.0	127	9.2	108	85	54	0	0	0	0	3	0
GRAND RAPIDS	64	46	75	34	55	3	.2	-.5	.2	9.2	140	11.1	111	85	52	0	0	0	0	1	1
HOUGHTON LAKE	57	44	69	34	51	2	.9	.3	.8	7.8	161	9.6	127	82	59	0	0	0	0	3	1
LANSING	64	46	76	34	55	3	.2	-.4	.2	8.3	151	10.4	122	95	57	0	0	0	0	2	0
MARQUETTE	50	37	73	28	44	-1	.8	-.1	.5	7.4	107	10.1	93	91	62	0	0	2	0	6	0
MUSKOGON	62	46	71	35	54	3	.2	-.5	.1	8.0	133	10.1	101	84	56	0	0	0	0	2	0
SAULT ST. MARIE	53	40	63	30	46	2	.6	.0	.4	7.2	152	9.3	108	91	49	0	0	2	4	4	0
MN ALEXANDRIA	49	38	69	32	44	-1	2.7	2.1	1.1	5.9	159	7.3	140	93	58	0	0	1	1	4	3
DULUTH	48	34	70	29	41	-1	2.4	1.9	1.6	5.5	130	6.6	105	95	62	0	0	5	4	4	1
INT'L FALLS	52	33	73	27	42	-3	1.1	.7	.9	3.9	132	5.6	124	90	53	0	0	5	3	3	1
MINNEAPOLIS	56	42	76	36	49	-1	2.0	1.4	1.3	6.5	159	8.0	140	85	55	0	0	0	0	4	2
ROCHESTER	56	41	72	33	48	-3	1.1	.4	.9	8.2	175	9.3	151	93	63	0	0	0	0	4	1
MS GREENWOOD	78	60	84	53	69	0	6.4	5.2	4.3	18.7	150	31.6	143	97	60	0	0	0	0	4	3
JACKSON	80	63	87	59	71	2	5.7	4.4	2.8	24.8	208	35.1	166	99	71	0	0	0	0	5	4
MERIDIAN	81	64	88	62	72	4	6.3	5.3	3.8	19.5	154	32.7	147	96	63	0	0	0	0	5	4
MO CAPE GIRARDEAU	75	56	80	46	66	-	1.7	.6	.8	9.2	91	15.3	95	93	50	0	0	0	0	4	2
COLUMBIA	73	51	79	43	62	1	1.8	.8	1.0	7.9	101	9.6	84	91	40	0	0	0	0	4	2
KANSAS CITY	67	48	77	41	57	-1	2.4	1.5	1.6	8.0	124	9.6	108	95	53	0	0	0	0	5	2
SAINT LOUIS	76	57	82	52	67	5	1.0	.2	.5	7.3	100	9.8	88	88	34	0	0	0	0	3	1
SPRINGFIELD	74	50	81	43	62	1	1.1	.2	.6	7.4	92	11.3	96	97	38	0	0	0	0	4	1
MT BILLINGS	47	32	55	29	40	-10	.5	.0	.4	4.9	151	6.2	127	88	45	0	0	3	3	0	0
GLASGOW	42	29	48	24	36	-14	.3	.0	.1	2.1	179	2.6	145	93	59	0	0	5	4	0	0
GREAT FALLS	46	30	52	26	38	-11	.5	.0	.3	3.1	118	4.0	92	96	54	0	0	6	6	0	0
HAVRE	45	30	52	25	38	-12	.1	-.2	.0	2.3	124	2.8	97	93	56	0	0	4	3	0	0
HELENA	50	33	55	26	42	-6	T	-.3	T	1.7	89	2.0	66	87	35	0	0	3	3	0	0
BELENA	54	31	57	27	43	-5	T	-.3	T	1.7	80	3.9	82	81	33	0	0	4	0	0	0
KALISPELL	44	30	51	26	37	-15	.4	.0	.4	4.2	187	5.1	152	90	56	0	0	6	2	0	0
MILES CITY	56	33	60	28	44	-4	.1	-.2	.1	1.5	77	2.4	57	81	33	0	0	3	1	0	0
MISSOULA	61	38	75	34	49	-7	2.4	1.6	.9	5.4	117	5.9	101	87	53	0	0	0	0	5	2
NE GRAND ISLAND	64	42	78	38	53	-4	.8	.0	.5	6.0	115	7.0	102	90	53	0	0	0	0	4	1
LINCOLN	58	39	72	36	49	-7	2.1	1.5	1.1	5.9	143	7.2	134	86	50	0	0	0	0	4	2
NORFOLK	56	34	71	27	45	-8	3.6	3.0	1.2	5.9	179	6.4	154	94	48	0	0	2	4	3	3
NORTH PLATTE	62	43	75	38	53	-5	1.7	.9	.8	11.4	214	12.8	184	87	51	0	0	0	0	3	2
OMAHA	55	31	65	25	43	-9	.1	-.4	.1	1.8	66	2.6	75	82	32	0	0	4	2	0	0
SCOTTSBLUFF	52	31	64	26	42	-10	.5	-.4	.1	4.5	149	5.2	138	85	44	0	0	6	2	0	0
VALENTINE	54	24	65	15	39	-7	.2	.3	.5	2.8	142	3.0	91	77	24	0	0	7	2	0	0
NV RLY	76	50	84	46	63	-5	T	.0	T	1.0	162	1.8	114	34	14	0	0	0	0	0	0
LAS VEGAS	62	34	70	30	48	-2	.1	.0	.1	2.0	158	2.2	65	67	21	0	0	4	1	0	0
RENO	59	31	67	20	45	-5	.3	.1	.2	1.9	124	2.6	85	81	28	0	0	5	3	0	0
WINNEMUCCA	64	39	74	34	51	1	.8	.1	.8	5.6	89	8.9	77	92	40	0	0	0	1	1	0
NH CONCORD	68	47	79	38	57	2	.4	-.3	.3	8.9	117	15.3	106	96	50	0	0	0	0	4	0
NJ ATLANTIC CITY	68	47	79	38	57	2	.4	-.3	.3	8.9	117	15.3	106	96	50	0	0	0	0	4	0
NM ALBUQUERQUE	70	38	81	31	54	-5	.0	-.1	.0	.4	28	1.1	45	63	23	0	0	0	0	0	0
CLOVIS	75	43	84	34	59	-3	.0	-.3	.0	.4	5	.6	34	31	12	0	0	0	0	0	0
ROSSELL	80	48	88	43	64	-1	.0	-.1	.0	T	5	.6	34	31	12	0	0	0	0	0	0
NY ALBANY	65	46	80	41	55	3	1.4	.7	1.0	7.1	113	11.0	100	84	45	0	0	0	0	4	1
BINGHAMTON	62	44	76	35	53	3	.8	.1	.4	8.0	125	12.3	110	88	46	0	0	0	0	3	0
BUFFALO	64	48	78	36	56	5	.3	-.4	.1	12.0	188	16.1	137	87	50	0	0	0	0	4	0
NEW YORK	64	52	71	50	58	1	T	-.8	T	6.8	82	11.7	81	80	44	0	0	0	0	2	0
ROCHESTER	64	47	77	33	55	3	.1	-.5	.0	8.8	162	11.7	116	89	49	0	0	0	0	3	0
SYRACUSE	66	45	79	35	56	4	.4	-.3	.3	8.1	119	12.1	101	89	48	0	0	0	0	3	0
NC ASHEVILLE	77	52	82	38	64	4	.8	-.1	.5	11.6	133	16.6	110	87	38	0	0	0	0	4	1
CHARLOTTE	82	62	86	51	72	7	.9	.2	.7	12.6	148	20.0	124	89	39	0	0	0	0	4	1
GREENSBORO	80	59	84	51	69	7	.9	.1	.8	14.4	194	20.1	141	85	40	0	0	0	0	2	1
HATTERAS	78	62	82	56	70	6	.9	.1	.7	8.5	112	22.0	134	95	52	0	0	0	0	3	0
NEW BERN	84	63	88	53	73	7	.7	-.1	.3	5.9	84	15.2	101	96	49	0	0	0	0	4	0
RALEIGH	81	60	86	50	71	7	.3	-.4	.2	5.6	80	10.5	75	93	40	0	0	0	0	4	1
WILMINGTON	84	64	89	53	74	7	.7	-.1	.6	9.9	132	21.7	149	95	50	0	0	0	0	4	1
ND BISMARCK	43	33	50	28	38	-12	.8	.3	.7	2.9	120	3.3	99	91	63	0	0	2	4	3	3
FARGO	48	35	64	32	42	-8	2.5	2.0	1.0	5.0	168	6.5	168	90	63	0	0	3	5	2	2
GRAND FORKS	45	35	58	31	40	-9	2.6	2.2	1.0	4.7	203	5.8	162	91	68	0	0	4	4	0	0
WILLISTON	44	32	49	28	38	-12	.3	-.1	.2	2.3	114	2.8	96	89	59	0	0	4	4	0	0
OH AKRON-CANTON	71	52	78	41	62	7	T	-.8	T	5.7	82	10.2	87	84	43	0	0	0	0	5	0
CINCINNATI	73	53	77	41	63	4	.2	-.6	.1	9.9	125	16.8	122	89	52	0	0	0	0	5	0
CLEVELAND	68	50	78	42	59	5	.1	-.7	.0	7.9	118	12.4	109	82	41	0	0	0	0	2	0
COLUMBUS	73	52	83	45	63	6	.1	-.7	.1	8.2	117	12.5	105	81	36	0	0	0	0	3	0

Based on 19

Weather Data for the Week Ending May 4, 1991

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
DAYTON	70	52	77	43	61	4	.3	-.5	.2	10.4	149	15.4	133	88	51	0	0	0	0	0	0	0
TOLEDO	67	49	78	38	58	4	.3	-.4	.3	6.0	100	8.8	90	87	49	0	0	0	0	0	0	0
YOUNGSTOWN	70	49	77	35	59	6	.2	-.6	.3	5.8	81	9.4	78	91	45	0	0	0	0	0	0	0
OK OKLAHOMA CITY	79	52	87	43	66	6	1.9	-.9	1.9	5.6	100	6.5	83	86	39	0	0	0	0	0	0	0
TULSA	79	53	83	47	66	1	2.0	-.9	.9	5.5	70	7.3	67	86	60	0	0	0	0	0	0	0
OR ASTORIA	59	42	71	39	51	1	.1	-.7	.1	15.1	122	30.5	99	94	54	0	0	0	0	0	0	0
BURNS	60	29	64	21	45	1	.0	-.2	.0	.8	45	1.8	43	68	40	0	0	0	0	0	0	0
MEDFORD	70	39	75	34	54	0	.0	-.2	.0	3.5	117	6.8	80	87	28	0	0	0	0	0	0	0
PENDLETON	65	39	70	35	52	-3	.0	-.2	.0	1.7	79	3.3	65	70	28	0	0	0	0	0	0	0
PORTLAND	67	43	75	40	55	2	.1	-.4	.1	8.7	142	14.9	92	83	34	0	0	0	0	0	0	0
SALEM	68	37	74	31	53	1	.1	-.3	.1	9.0	130	15.2	82	85	38	0	0	0	0	0	0	0
PA ALLENTOWN	67	48	81	41	58	2	.2	-.7	.1	6.9	84	10.8	74	88	40	0	0	0	0	0	0	0
ERIE	67	49	77	35	57	6	.2	-.5	.2	7.2	106	11.0	98	87	39	0	0	0	0	0	0	0
HARRISBURG	70	49	83	42	60	2	.1	-.7	.1	6.1	86	10.1	79	88	39	0	0	0	0	0	0	0
PHILADELPHIA	71	52	82	45	61	3	.1	-.7	.1	7.0	90	11.8	87	82	43	0	0	0	0	0	0	0
PITTSBURGH	73	51	80	41	62	7	.2	-.6	.1	5.6	76	10.0	80	83	43	0	0	0	0	0	0	0
SCRANTON	67	48	81	39	57	3	.2	-.5	.2	5.8	96	8.7	84	83	37	0	0	0	0	0	0	0
RI PROVIDENCE	62	46	73	41	54	1	1.2	-.3	1.1	11.5	132	17.2	105	86	46	0	0	0	0	0	0	0
SC CHARLESTON	84	63	87	55	74	5	.2	-.5	.2	9.2	126	18.0	128	99	57	0	0	0	0	0	0	0
SC CHARLESTON	84	61	90	49	73	5	.3	-.5	.3	12.3	133	19.7	112	96	41	1	0	0	0	0	0	0
COLUMBIA	85	62	89	51	74	5	.5	-.1	.3	7.6	102	14.2	99	96	46	0	0	0	0	0	0	0
FLORENCE	80	57	84	45	69	4	.6	-.3	.3	11.5	107	18.5	95	96	46	0	0	0	0	0	0	0
GREENVILLE	50	36	63	30	43	-8	2.4	1.9	1.3	5.8	181	6.6	153	87	61	0	0	0	0	0	0	0
SD ABERDEEN	52	36	65	32	44	-8	2.3	1.8	1.5	7.7	221	8.7	188	87	55	0	0	0	0	0	0	0
HURON	48	31	60	25	40	-11	.4	-.2	.2	4.0	123	5.1	120	85	46	0	0	0	0	0	0	0
RAPID CITY	56	40	72	36	48	-5	2.2	1.5	1.2	4.2	99	4.8	84	86	56	0	0	0	0	0	0	0
STOUC FALLS	77	56	83	49	66	2	2.3	1.4	1.3	14.7	128	25.5	120	96	54	0	0	0	0	0	0	0
TN CHATTANOOGA	76	54	82	45	65	1	.6	-.2	.5	10.4	106	19.9	107	96	51	0	0	0	0	0	0	0
KNOXVILLE	77	60	82	54	68	1	5.5	4.2	2.6	22.7	191	32.1	154	97	46	0	0	0	0	0	0	0
MEMPHIS	76	57	80	48	67	2	1.0	.0	.5	7.7	73	16.1	84	93	52	0	0	0	0	0	0	0
NASHVILLE	82	56	88	45	69	0	.4	-.4	-.3	2.5	66	5.4	93	69	29	0	0	0	0	0	0	0
TX ABILENE	72	40	82	31	56	-5	.0	-.4	.0	4.4	20	1.3	41	74	19	0	0	0	0	0	0	0
AMARILLO	83	63	86	56	73	1	.7	-.3	.3	6.4	121	18.6	177	95	65	0	0	0	0	0	0	0
AUSTIN	84	70	86	60	77	5	.1	-1.0	.1	9.3	118	28.7	199	87	52	0	0	0	0	0	0	0
BEAUMONT	88	75	92	66	81	4	.0	-.4	.0	10.4	455	13.4	266	95	63	1	0	0	0	0	0	0
BROWNSVILLE	86	71	94	60	78	2	2.4	1.8	2.4	7.9	266	11.7	193	95	66	1	0	0	0	0	0	0
CORPUS CHRISTI	91	65	98	54	78	3	.3	-.2	.2	2.2	82	3.6	86	64	24	0	0	0	0	0	0	0
DEL RIO	79	45	86	33	62	-6	.0	.0	.0	1.6	20	1.6	122	34	10	0	0	0	0	0	0	0
EL PASO	82	58	85	50	70	1	2.5	1.4	.9	6.8	96	12.1	114	86	52	0	0	0	0	0	0	0
FORT WORTH	80	71	81	67	75	2	1.6	.9	1.2	5.1	98	22.1	211	96	74	0	0	0	0	0	0	0
GALVESTON	85	67	88	56	76	4	.3	-.7	.2	10.1	145	25.7	186	99	52	0	0	0	0	0	0	0
HOUSTON	79	46	85	38	63	-2	.3	-.1	.3	.5	21	2.2	69	61	16	0	0	0	0	0	0	0
LUBBOCK	85	51	91	38	68	0	.0	-.3	.0	2	2	2.1	83	52	9	2	0	0	0	0	0	0
MIDLAND	87	54	95	41	71	0	.0	-.5	.0	1.1	40	3.5	81	74	19	3	0	0	0	0	0	0
SAN ANGELO	85	61	87	54	73	0	3.6	2.8	2.6	9.5	211	16.9	215	90	47	0	0	0	0	0	0	0
SAN ANTONIO	85	67	89	60	76	2	.7	-.1	.7	15.0	340	25.9	303	99	59	0	0	0	0	0	0	0
VICTORIA	81	57	86	46	69	-2	.9	-.2	.0	4.4	69	9.0	89	91	55	0	0	0	0	0	0	0
WACO	83	52	91	43	68	0	1.9	1.0	1.9	3.5	66	6.2	86	82	29	2	0	0	0	0	0	0
WICHITA FALLS	59	29	72	21	44	-8	.0	-.2	.0	1.0	48	2.1	58	74	19	0	0	0	0	0	0	0
UT CEDAR CITY	57	38	71	33	47	-7	.8	.4	.6	4.4	107	6.2	91	81	32	0	0	0	0	0	0	0
SALT LAKE CITY	62	43	74	33	53	3	1.0	.4	.6	6.7	126	8.9	100	90	48	0	0	0	0	0	0	0
VT BURLINGTON	77	59	87	53	68	5	.2	-.6	.1	11.2	157	16.7	119	91	41	0	0	0	0	0	0	0
VA NORFOLK	78	55	85	49	66	4	.2	-.5	.1	6.7	98	11.5	87	89	38	0	0	0	0	0	0	0
RICHMOND	76	57	81	49	66	5	.4	-.4	.3	10.1	140	15.7	119	82	42	0	0	0	0	0	0	0
WA QUILLAYUTE	62	41	77	38	52	3	.1	-.3	.1	14.8	74	44.1	95	93	41	0	0	0	0	0	0	0
SKATTLIE-TACOMA	66	44	73	41	55	3	.1	-.3	.1	11.2	180	20.3	124	86	34	0	0	0	0	0	0	0
SPOKANE	60	34	65	31	47	-3	.1	-.3	.0	3.6	139	6.1	92	79	29	0	0	0	0	0	0	0
YAKIMA	69	35	73	30	52	-1	.1	-.7	.0	1.8	155	2.4	72	81	24	0	0	0	0	0	0	0
WV BECKLEY	73	54	79	45	64	7	.1	-.1	.1	9.1	116	15.8	109	83	37	0	0	0	0	0	0	0
CHARLESTON	80	56	88	48	68	8	.2	-.1	.1	9.7	122	15.4	106	82	33	0	0	0	0	0	0	0
HUNTINGTON	78	55	86	47	66	6	.4	-.3	.3	11.7	146	17.4	124	84	34	0	0	0	0	0	0	0
PARKERSBURG	76	54	86	47	65	6	.6	-.2	.3	9.3	126	14.7	115	81	39	0	0	0	0	0	0	0
WI GREEN BAY	57	43	78	33	50	0	.2	-.5	.2	5.6	114	6.6	93	87	56	0	0	0	0	0	0	0
LACROSSE	60	44	77	37	52	-2	.4	-.3	.3	8.3	155	9.7	136	90	50	0	0	0	0	0	0	0
MADISON	63	42	77	33	53	0	.4	-.4	.2	9.2	163	10.8	139	86	45	0	0	0	0	0	0	0
MILWAUKEE	60	45	71	38	53	3	.4	-.6	.1	7.8	124	9.7	105	83	52	0	0	0	0	0	0	0
WAUSAU	56	40	75	30	48	0	.8	.0	.7	8.1	155	9.3	132	94	56	0	0	0	0	0	0	0
WY CASPER	49	28	56	22	39	-9	.1	-.4	.0	1.9	70	2.8	76	87	36	0	0	0	0	0	0	0
CHEYENNE	49	27	59	22	38	-9	.1	-.3	.0	1.7	67	2.1	66	86	35	0	0	0	0	0	0	0
LANDER	48	30	55	27	39	-9	.5	-.1	.3	3.7	100	4.8	101	92	41	0	0	0	0	0	0	0
SHERIDAN	47	31	53	26	39	-10	.1	-.4	.1	4.9	145	6.3	130	87	49	0	0	0	0	0	0	0

Based on 1951-80 normals

April Weather and Crop Summary

A series of five major storm systems and a handful of lesser disturbances created the atmosphere for an active spring weather pattern. Numerous April rainfall records were established in the Gulf Coast States and in the Pacific Northwest. Storms dropped above-normal precipitation from the northern Plains to New England, in the eastern half of the central and southern Plains, and along the Atlantic coast. Abundant snow fell in the northern and central Rockies. The only broad area of significantly below-normal precipitation for the month included the southern High Plains, the Southwest, and California.

Storm centers repeatedly dug into the central Rockies and lifted out through the Great Lakes. This weather pattern held cool air in the West, while pumping moist, mild air into the eastern half of the Nation. As is customary in the spring, the Plains became a battleground for the clashing airmasses, resulting in numerous severe thunderstorm outbreaks.

Early-month rain in the Pacific Northwest pushed Seattle and Olympia, WA, to record April totals by the 5th. For the month, Seattle noted 6.53 inches (272 percent of normal) and Olympia received 7.80 inches (249 percent of normal). Intense rainfall in southeastern Texas on the 5th contributed heavily to record April totals. For instance, greater than 9 inches of rain on that single day in Brownsville, TX, shattered the city's former monthly record by 2.55 inches. Not to be outdone, Shreveport, LA, was inundated by 10.44 inches of rain on the 12th en route to its soggiest April ever. The monthly total of 21.84 inches bested the old mark of 11.19 inches and exceeded the normal total (4.71 inches) by 464 percent. Minden, LA, 30 miles east of Shreveport, reported a remarkable 33.91 inches of rain in April. Normal yearly rainfall in northern Louisiana is about 50 inches. April rainfall records were also toppled in parts of Alabama, Mississippi, Georgia, Florida, and Tennessee. Memphis, TN, had its wettest April (17.13 inches) and its third wettest month on record. In northern Utah, Alta received an April record of 136.3 inches of snow, twice the monthly average.

A few locations in the East enjoyed record warmth, including Binghamton, NY, and Ft. Myers and Key West, FL. Incredibly, Key West closed the month with 8 consecutive record warm minimum temperature readings, and 11 for the month. Record warmth was prevalent along the Nation's northern tier in early April, and in the East until mid-month. More than 175 daily record highs were set by the 15th. Despite the continued absence of severe cold

intrusions during the latter half of the month, considerable cloud cover held temperatures to more normal levels in the East. Cool air drained into the West behind storms, resulting in a few daily record minimums, including a 1° F reading in Laramie, WY, on the 13th, and an 8° F chiller in Alamosa, CO, on the 27th.

April 9th proved to be a day for one of the most widespread severe weather outbreaks for the East in recent times. More than 400 incidences of large hail or damaging winds, including 37 tornadoes, were reported from New York to Mississippi. An outbreak of tornadoes on the 26th was the deadliest of the month, as twisters ravaged the Wichita, KS, area, killing more than 2 dozen people. Many States in the eastern half of the Nation had flooding problems at one time or another. The lower Mississippi Valley was pounded hard and repeatedly. Significant rain fell there on April 7, 9-14, 17-19, 21-22, and 24-29.

Fieldwork

Spring planting was the principal field activity during April in most parts of the country, although rains limited progress in the Delta and Great Plains regions.

Corn planting was underway in all of the major producing States, with progress approaching completion by the end of the month in the southernmost areas. Corn planting lagged behind normal in the Corn Belt due to wet conditions.

Clear weather later in the month allowed Western cotton producers to catch up on planting that was delayed by earlier rains, but persistent rains brought cotton planting to a virtual halt in the Delta region and parts of the Southeast. Twenty percent of the national cotton crop was planted by April 28, 9 percentage points behind normal.

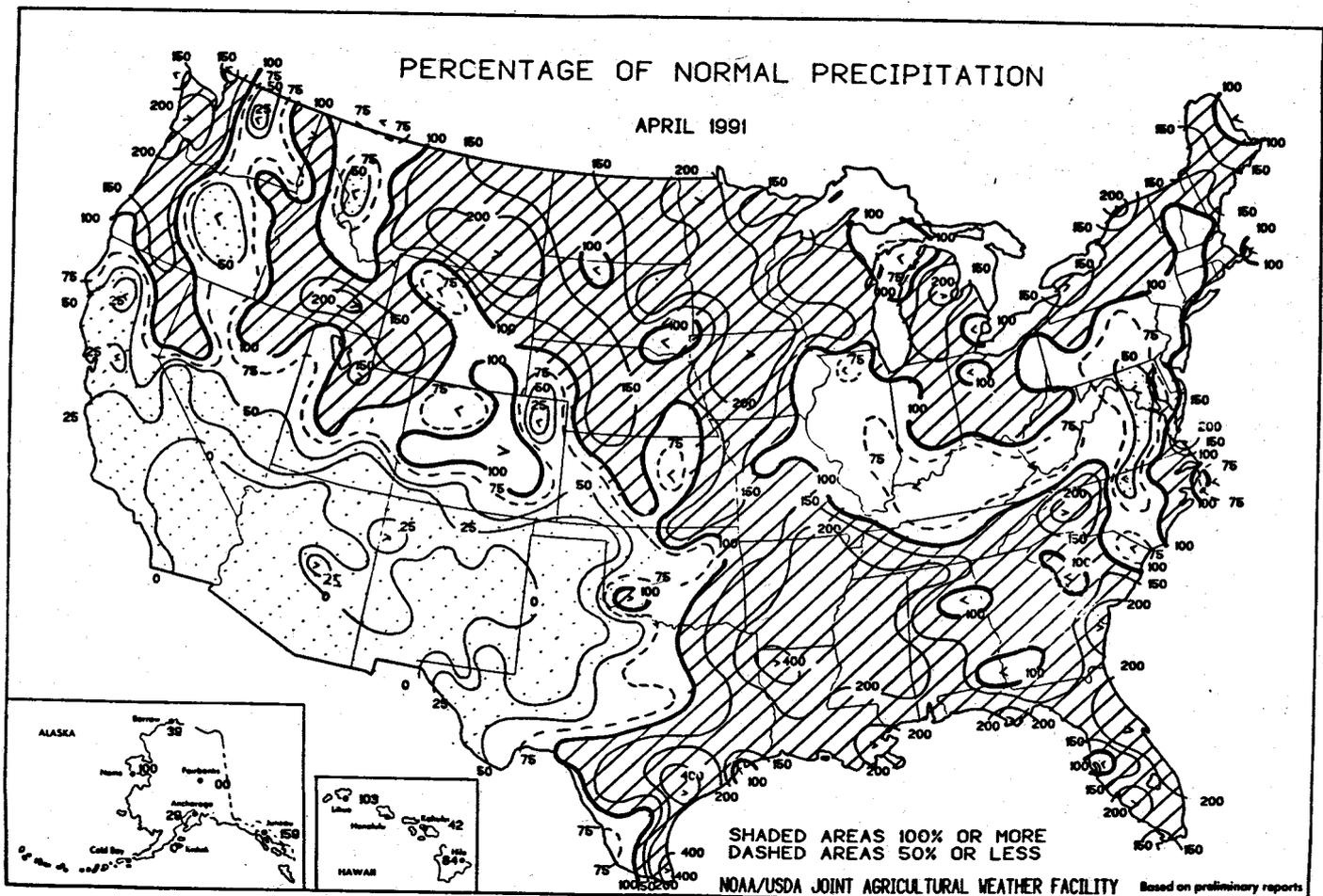
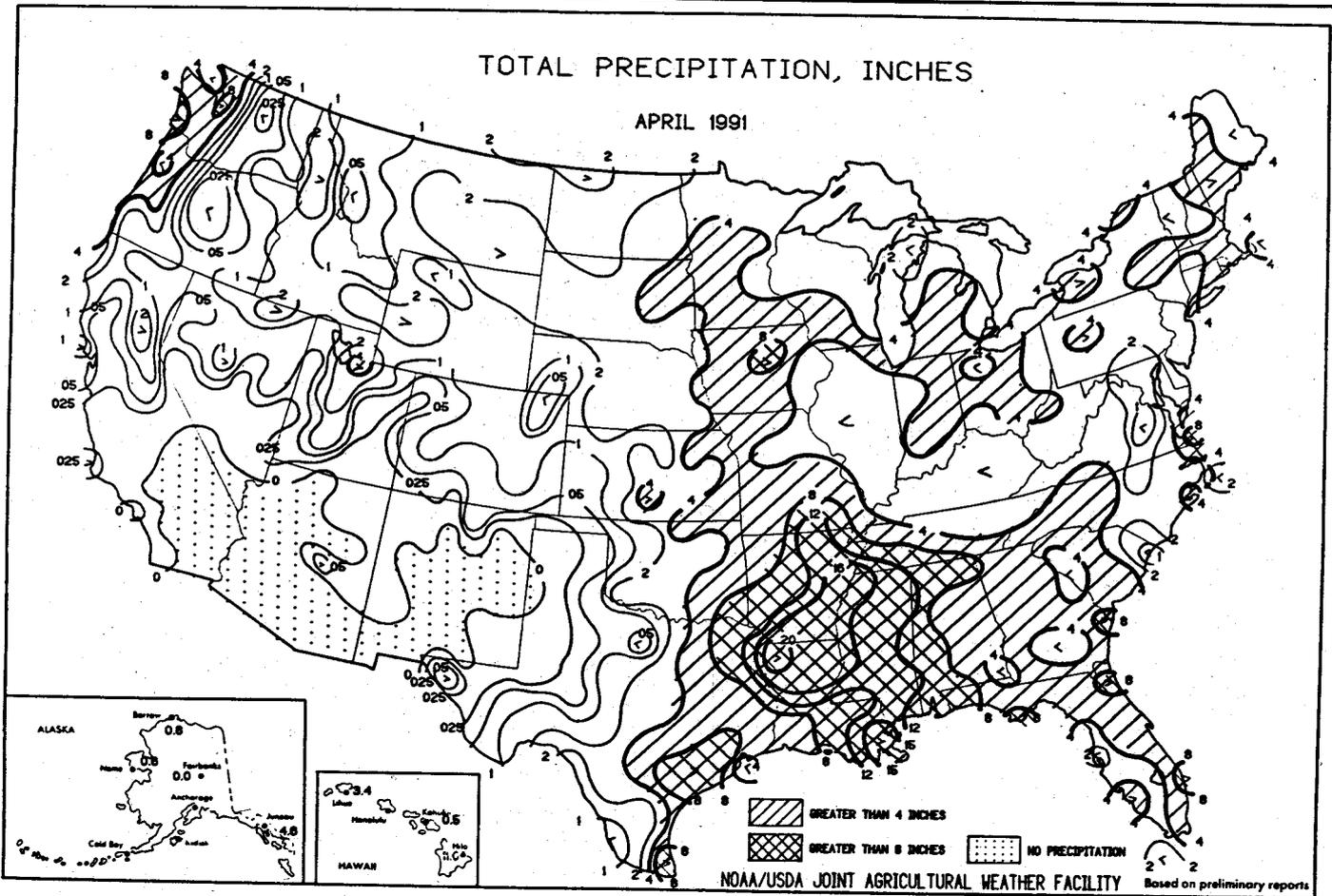
Rice planting similarly fell behind, reaching 29 percent (%) complete by April 28, compared with 47% average.

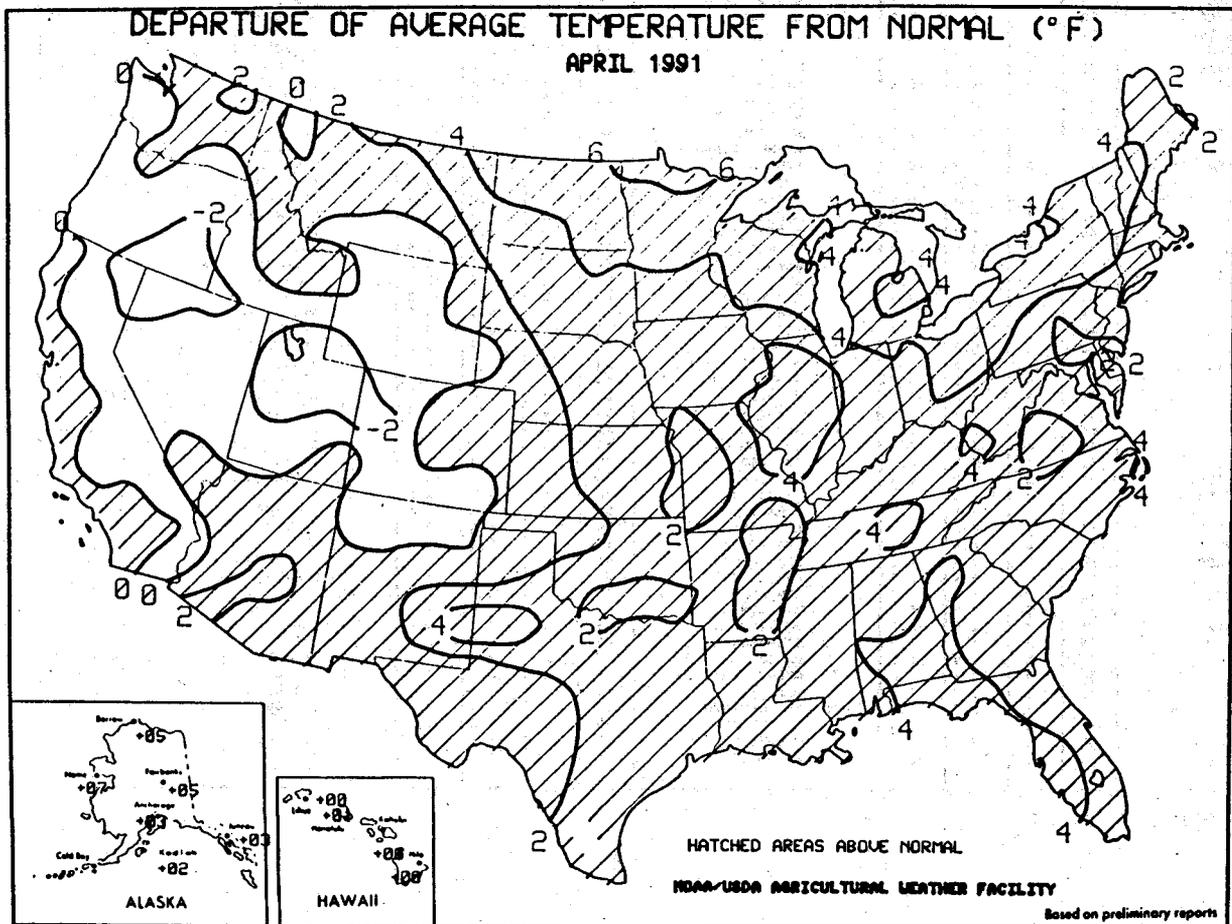
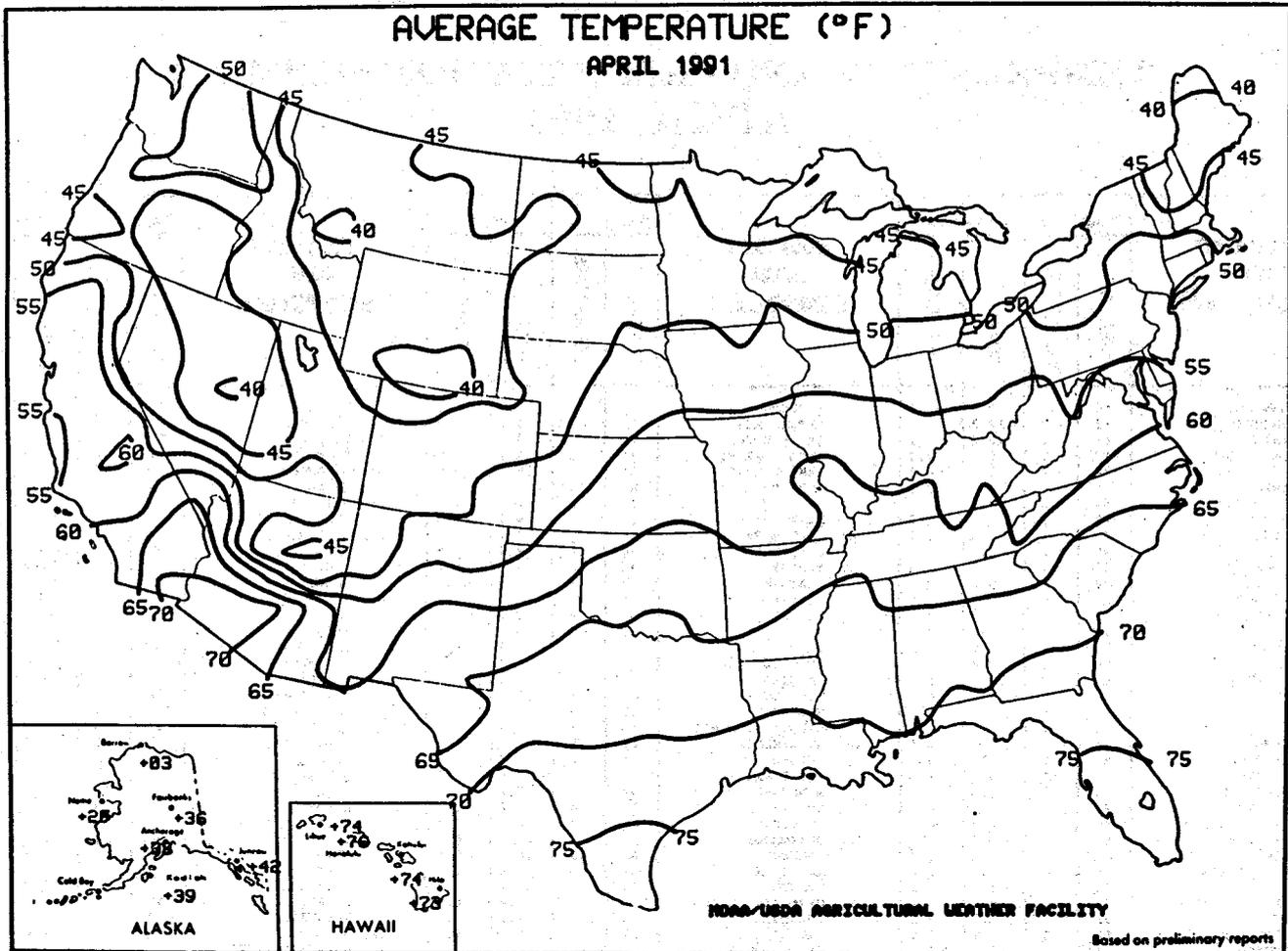
Planting of grain sorghum progressed at a more normal pace, reaching 19% complete.

Seeding of spring wheat progressed ahead of schedule in each of the five principal producing States during April. Progress reached 64% complete by April 28, 21 points ahead of normal.

Spring vegetable harvests were active in Arizona, California, Florida, and Texas and citrus was being picked in Arizona, California, and Florida.

(The April Weather in Historical Perspective feature will appear in next week's issue.)





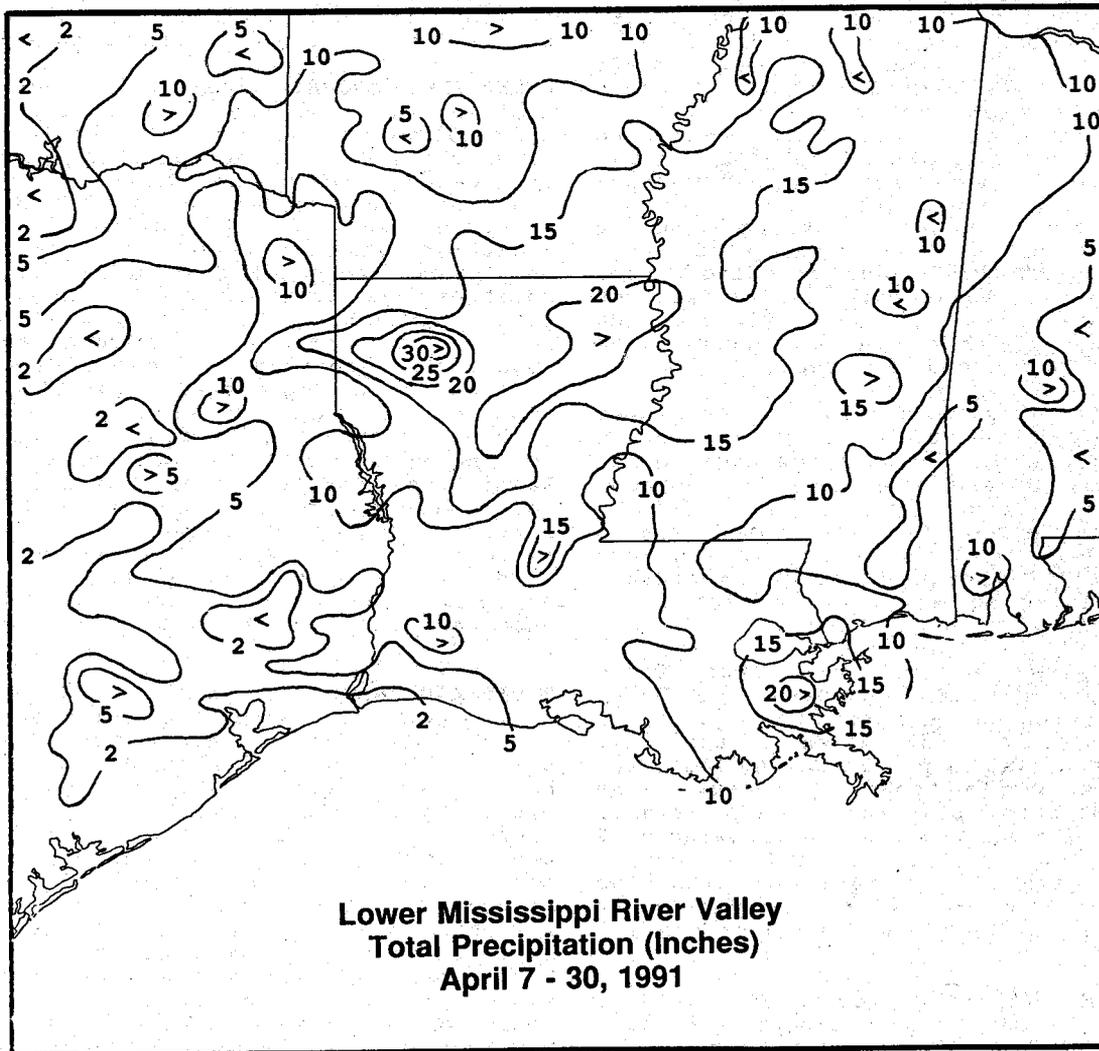
TEMPERATURE AND PRECIPITATION SUMMARY APRIL 1991

STATES AND STATIONS	Temp. °F		Precip.		STATES AND STATIONS	Temp. °F		Precip.		STATES AND STATIONS	Temp. °F		Precip.	
	AVERAGE	DEPARTURE	TOTAL	DEPARTURE		AVERAGE	DEPARTURE	TOTAL	DEPARTURE		AVERAGE	DEPARTURE	TOTAL	DEPARTURE
AL BIRMINGHAM	66	3	4.9	-0.1	LA PADUCAH	62	2	4.5	0.5	DAYTON	55	3	4.7	1.3
AL HUNTSVILLE	64	2	10.3	5.4	LA ALEXANDRIA	71	4	14.7	9.2	MANSFIELD	53	4	4.7	1.2
AL MOBILE	69	1	10.4	5.1	LA BATON ROUGE	71	3	9.2	3.6	TOLEDO	52	5	4.3	1.3
AK MONTGOMERY	68	3	6.6	2.3	LA LAKE CHARLES	71	2	6.7	2.8	YOUNGSTOWN	52	4	3.0	-0.4
AK ANCHORAGE	38	2	0.2	-0.4	LA NEW ORLEANS	71	3	15.3	10.8	OK OKLAHOMA CITY	63	2	2.1	-0.8
AK BARROW	4	5	0.1	-0.1	ME SHREVEPORT	69	3	21.8	17.1	OK TULSA	64	3	2.6	-1.6
AK FAIRBANKS	36	5	0.0	-0.3	ME CARIBOU	40	2	2.6	0.0	OR ASTORIA	47	-1	9.5	4.7
AK JUNEAU	42	3	4.6	1.7	MD PORTLAND	46	3	6.7	2.8	OR BURNS	41	-2	0.3	-0.4
AK KODIAK	39	2	8.0	4.4	MD BALTIMORE	56	2	1.7	-1.6	MD MEDFORD	50	-1	1.1	0.1
AK NOME	25	7	0.6	0.0	MD SALSIBURY	56	2	2.6	-0.5	MD PENDLETON	50	-1	0.7	-0.3
AZ FLAGSTAFF	43	1	T	-1.4	MA BOSTON	51	3	4.8	1.1	MD PORTLAND	51	1	4.0	1.8
AZ PHOENIX	72	4	0.0	-0.3	MA CHATHAM	47	2	3.9	-0.0	PA SALEM	49	1	3.8	1.4
AZ PRESCOTT	51	2	0.0	-0.8	MI ALPENA	46	5	2.6	0.1	PA ALLENTOWN	53	3	3.1	-0.8
AZ TUCSON	65	0	0.0	-0.3	MI DETROIT	52	4	2.7	-0.5	PA ERIE	52	6	3.6	0.1
AZ WINSLOW	51	-2	T	-0.3	MI FLINT	50	4	4.1	1.0	PA HARRISBURG	54	1	2.0	-1.2
AR YUMA	73	2	0.0	-0.1	MI GRAND RAPIDS	51	4	5.6	2.0	PA PHILADELPHIA	56	2	2.8	-0.6
AR FORT SMITH	64	2	7.4	3.3	MI HOUGHTON LAKE	47	5	4.7	2.1	PA PITTSBURGH	54	4	2.6	-0.7
CA LITTLE ROCK	65	2	11.0	5.6	MI LANSING	50	5	4.4	1.5	PA SCRANTON	52	3	2.7	-0.3
CA BAKERSFIELD	60	-3	0.1	-0.6	MI MARQUETTE	43	5	3.5	-0.1	PA WILLIAMSPORT	52	3	2.4	-1.1
CA BISHOP	52	-1	0.1	-0.3	MI MUSKEGON	49	4	3.6	0.4	RI PROVIDENCE	52	4	4.8	0.9
CA EUREKA	51	1	2.5	-0.4	MI SAULT ST. MARIE	43	5	3.4	1.0	SC CHARLESTON	68	3	4.6	2.0
CA FRESNO	60	-1	T	-1.1	MN ALEXANDRIA	47	5	4.6	2.4	SC COLUMBIA	67	3	4.7	1.1
CA LOS ANGELES	61	1	T	-0.9	MN DULUTH	43	4	3.9	1.7	SC FLORENCE	67	3	1.4	-1.6
CA REDDING	57	-4	0.5	-2.3	MN INT'L FALLS	45	7	2.5	1.0	SD GREENVILLE	62	1	5.6	1.3
CA SACRAMENTO	58	0	0.3	-1.0	MN MINNEAPOLIS	49	3	3.6	1.6	SD ABERDEEN	49	4	3.7	1.8
CA SAN DIEGO	62	1	0.1	-0.7	MN ROCHESTER	48	4	5.2	2.7	SD HURON	49	3	5.6	3.6
CA SAN FRANCISCO	56	1	0.6	-0.9	MN ST CLOUD	46	3	4.7	2.4	SD RAPID CITY	46	2	3.0	1.0
CA STOCKTON	59	0	0.5	-0.9	MS GREENWOOD	67	3	14.3	8.7	SD SIOUX FALLS	50	4	2.2	-0.1
CO ALAMOSA	40	-1	0.2	-0.3	MS JACKSON	68	3	16.0	10.1	TN BRISTOL	60	4	3.4	-0.1
CO CO. SPRINGS	46	0	1.8	0.4	MS MERIDIAN	68	4	11.8	6.4	TN CHATTANOOGA	64	3	6.8	2.2
CO DENVER	48	1	1.9	0.1	MS TUPELO	65	2	12.2	6.5	TN KNOXVILLE	63	3	4.0	0.1
CO GRAND JUNCTION	49	-2	0.9	0.2	MO CAPE GIRARDEAU	--	--	5.8	1.3	TN MEMPHIS	65	2	17.1	11.3
CO PUEBLO	51	0	0.8	-0.2	MO COLUMBIA	58	2	4.5	0.7	TN NASHVILLE	64	4	3.4	-1.1
CT BRIDGEPORT	52	3	3.2	-0.5	MO KANSAS CITY	57	1	5.0	1.8	TX ABILENE	68	3	1.6	-0.7
CT HARTFORD	53	4	3.5	-0.5	MO SAINT LOUIS	61	5	3.3	-0.3	TX AMARILLO	58	2	T	-1.0
DC WASHINGTON	58	1	1.4	-1.5	MO SPRINGFIELD	58	2	5.2	1.1	TX AUSTIN	71	3	4.9	1.8
FL APALACHICOLA	72	4	8.3	5.0	MT BILLINGS	44	-1	3.9	2.0	TX BRAUNTON	72	3	6.8	2.6
FL DAYTONA BEACH	74	4	5.6	3.3	MT GLASGOW	46	3	1.3	0.6	TX BROWNSVILLE	78	3	10.4	8.8
FL FT. MYERS	78	5	4.9	3.4	MT GREAT FALLS	43	0	1.5	0.1	TX CORPUS CHRISTI	76	3	4.0	2.2
FL JACKSONVILLE	72	3	6.3	3.3	MT HAVRE	45	2	1.8	-0.6	TX DEL RIO	74	2	1.9	0.0
FL KEY WEST	80	3	1.4	-0.1	MT HELENA	44	2	0.8	-0.3	TX EL PASO	64	0	T	-0.2
FL MIAMI	78	3	5.2	1.9	MT KALISPELL	43	0	0.8	-0.2	TX FORT WORTH	67	2	3.6	-0.5
FL ORLANDO	75	3	7.7	5.5	MT MILES CITY	47	1	4.0	2.6	TX GALVESTON	73	4	2.3	-0.4
FL TALLAHASSEE	72	4	6.0	1.8	MT MISSOULA	44	0	0.3	-0.7	TX HOUSTON	72	3	8.1	4.3
FL TAMPA	77	5	1.5	-0.3	NE GRAND ISLAND	53	3	2.7	0.1	TX LAREDO	80	4	0.9	-0.3
FL WEST PALM BEACH	77	3	9.5	6.3	NE LINCOLN	55	4	2.6	-0.2	TX LUBBOCK	64	4	0.1	-1.0
GA ATHEN	64	2	4.5	0.5	NE NORFOLK	53	4	2.7	0.5	TX MIDLAND	66	2	T	-0.8
GA ATLANTA	66	4	5.3	0.9	NE NORTH PLATTE	49	2	3.0	1.2	TX SAN ANGELO	67	0	0.5	-1.2
GA AUGUSTA	66	3	3.2	-0.2	NE OMAHA	54	2	5.7	2.8	TX SAN ANTONIO	72	3	4.9	2.2
GA MACON	68	3	4.3	0.8	NE SCOTTSBLUFF	46	0	1.2	-0.2	TX VICTORIA	74	3	11.1	8.5
GA SAVANNAH	70	4	10.6	7.4	NE VALENTINE	48	2	2.7	0.9	TX WACO	69	2	2.7	-1.1
HI HILO	73	0	11.0	-2.1	NV ELKO	41	-2	0.9	0.1	TX WICHITA FALLS	65	2	1.0	-2.0
HI HONOLULU	76	1	0.9	-0.5	NV ELY	39	-2	0.6	-0.3	UT BLANDING	--	--	T	-0.7
HI KAHULUI	74	0	0.5	-0.7	NV LAS VEGAS	64	1	T	-0.2	UT CEDAR CITY	45	-2	0.4	-0.6
HI LIHUE	74	0	3.4	0.1	NV RENO	47	1	0.5	0.0	VT SALT LAKE CITY	48	-1	2.7	0.5
ID BOISE	48	0	1.7	0.5	NH WINNEMUCCA	44	-2	0.5	-0.3	VT BURLINGTON	49	6	3.4	0.6
ID LEHISTON	52	2	0.8	-0.3	NH CONCORD	48	3	2.6	-0.4	VA LYNCHBURG	58	2	2.8	-0.1
ID POCATELLO	45	0	2.6	1.4	NJ ATLANTIC CITY	53	3	3.1	-0.1	VA NORFOLK	61	3	6.4	3.5
IL CAIRO	--	--	3.8	-0.5	NM ALBUQUERQUE	56	1	T	-0.4	VA RICHMOND	60	2	0.9	-2.0
IL CHICAGO	52	3	4.0	0.2	NM CLOVIS	60	3	0.0	-0.8	VA ROANOKE	57	1	2.5	-0.6
IL MOLINE	54	4	3.7	-0.3	NM ROSWELL	64	4	T	-0.4	VA COLVILLE	45	-1	1.2	0.1
IL PEORIA	56	5	3.0	-0.9	NY ALBANY	51	4	4.1	1.2	VA QUILLAYUTE	46	0	7.9	0.6
IL QUINCY	57	4	2.9	-0.8	NY BINGHAMTON	49	5	4.2	1.2	VA SEATTLE-TACOMA	49	0	6.5	4.1
IL ROCKFORD	52	4	2.1	-2.1	NY BUFFALO	50	5	5.8	2.8	VA SPOKANE	46	0	1.4	0.3
IL SPRINGFIELD	57	3	3.6	-0.4	NY NEW YORK	56	4	3.1	-0.7	VA WALLA WALLA	--	--	1.5	0.1
IN EVANSVILLE	59	2	2.6	-1.5	NY ROCHESTER	50	4	4.1	1.5	WV YAKIMA	50	0	0.6	0.1
IN FORT WAYNE	53	4	5.1	1.5	NY SYRACUSE	51	5	3.9	0.6	WV BECKLEY	55	4	2.5	-1.1
IN INDIANAPOLIS	55	3	4.3	0.6	NC ASHEVILLE	58	2	5.4	1.9	WV CHARLESTON	60	5	3.5	0.0
IN SOUTH BEND	52	4	4.6	0.5	NC CHARLOTTE	64	4	5.4	2.1	WV ELKINS	52	3	2.4	1.1
IA DES MOINES	54	3	7.5	4.3	NC GREENSBORO	61	2	6.7	3.5	WV HUNTINGTON	60	3	3.9	0.4
IA DUBUQUE	51	4	3.9	-0.3	NC HATTERAS	64	5	2.0	-1.2	WV PARKERSBURG	57	3	4.3	1.0
IA SIOUX CITY	53	3	3.5	1.2	NC NEW BERN	65	3	2.8	-0.2	WI GREEN BAY	48	4	2.8	0.1
IA WATERLOO	50	3	8.5	4.9	NC RALEIGH	62	3	1.0	-1.8	WI LA CROSSE	51	4	6.0	2.9
KS CONCORDIA	56	3	2.0	-0.3	NC WILMINGTON	66	2	3.4	0.4	WI MADISON	49	3	4.9	1.8
KS DODGE CITY	56	2	1.1	-0.7	ND BISMARCK	46	4	1.6	0.1	WI MILWAUKEE	50	5	3.7	0.4
KS GOODLAND	50	1	0.9	-0.2	ND FARGO	48	6	3.1	1.3	WI WAUSAU	48	5	3.6	0.7
KS TOPEKA	58	3	3.6	0.6	ND GRAND FORKS	46	5	3.1	1.8	WY CASPER	42	0	1.4	-0.1
KS WICHITA	59	3	2.3	-0.2	ND WILLISTON	47	5	1.6	0.3	WY CHEYENNE	41	-1	1.1	-0.1
KY BOWLING GREEN	60	3	2.8	-1.4	OH AKRON-CANTON	54	5	3.0	-0.2	WY LANDER	42	-1	2.8	0.6
KY JACKSON	61	8	2.7	-1.3	OH CINCINNATI	57	3	3.6	0.1	WY SHERIDAN	42	-1	3.7	1.7
KY LEXINGTON	58	3	2.7	-1.3	OH CLEVELAND	52	4	4.2	0.9	PR SAN JUAN	79	1	1.8	-1.8
KY LOUISVILLE	60	3	2.6	-1.5	OH COLUMBUS	56	4	4.2	0.9					

Based on 1951-80 normals

Record Rainfall in the Delta

Six episodes of heavy convection since April 7 have saturated soils and caused planting delays in the lower Mississippi Valley. Northern Louisiana and southern Arkansas have endured several rounds of major flooding, while the rest of the Delta region has been hit with frequent, localized flooding. Several April rainfall records fell by the wayside from Memphis, TN, southward to Jackson, MS, and westward into Louisiana. Renewed rainfall on May 2-4 dumped up to 5 additional inches on northern Louisiana and northern Mississippi. (See pages 1 and 9 for additional information.)



National Agricultural Summary

April 29 - May 5, 1991

HIGHLIGHTS: Rains through the Great Plains and Mississippi Valley continued to hamper progress of spring planting, while Ohio Valley and Atlantic Coast farmers enjoyed several days suitable for fieldwork. Planting was virtually halted in much of the Delta region due to heavy rains. Open weather allowed fieldwork to progress rapidly in the West.

SMALL GRAINS: Winter wheat maturity continued to progress ahead of schedule with 39 percent (%) of the crop headed, compared with last year's mark of 23% and the 5-year average of 29%. The crop was completely headed in Georgia and nearly all headed throughout the Southeast. Oklahoma's winter wheat was 95% headed, compared with 45% last year and the historic average of 65%. Kansas winter wheat was 40% headed, well ahead of last year's 10% and the average of 20%. Texas winter wheat progress continued at a normal pace, with 61% headed, compared with 60% last year and 57% average. Winter wheat condition reports remained mostly good to fair, except in Washington, where winter wheat and barley rated mostly poor. Seeding of spring wheat advanced to 71% complete in the five major producing States, 1 point behind last year, but 9 points ahead of the historic average. Spring barley seeding continued. Frost and wind damage in south-central Colorado made reseeding of some fields necessary. Texas small grains received some moisture relief, but many dryland fields were beyond help. Seeding of oats and rye were well along in most producing areas.

CORN: Planting progress continued to be slowed by rains in the Corn Belt. Nationwide, planting was 32% complete, 15 and 16 percentage points behind last year and the historic average, respectively. Iowa planting was only 15% complete by the end of the week, compared with 52% normal. Planting was also 20 points or more behind normal in Minnesota, Missouri, Nebraska, and Ohio. Planting was near completion in Georgia, North Carolina, and Texas.

COTTON: Rains and continued wet field conditions across the Southeast and Delta regions held cotton planting to a minimum. Planting progress through the end of the week, at 26% complete, was 11 points behind last year and 15 points behind normal. Heavy rains virtually stopped planting in Louisiana, Mississippi, and Oklahoma, while allowing only limited planting in Arkansas and Tennessee. Progress in each of the 14 major producing States was behind normal, with the exception of North Carolina, which showed normal progress.

GRAIN SORGHUM: Planting progressed at a near normal pace in all States except Arkansas. Twenty-two percent of the crop was seeded in the 14 principal producing States, compared with 21% last year and the 23% average. Arkansas seeding, at 24% complete, lagged 29 points behind normal, and some fields required reseeding due to excessive moisture. Planting continued on the Texas High Plains, while producers on the Texas Low Plains awaited more moisture. Planting had yet to begin in Colorado, Nebraska, and South Dakota.

RICE: Progress of rice planting was behind normal in each of five principal producing States. Rains in the Delta further delayed planting in the region, while seeding was active in most of California's producing areas. Progress in Mississippi, at 14% planted, lagged 56 points behind normal. Arkansas planting was 35 points behind normal, at 22% planted. California, Louisiana, and Texas were 12-16 points behind normal planting progress.

OTHER FIELD CROPS: Soybean planting was getting underway as far north as Minnesota, with less than 10% of the acreage planted in most major growing States. Peanut planting progressed in the eastern producing States, with Alabama planting reaching 45% complete, Georgia 33% complete, and North Carolina 17% complete. Peanut growers in Oklahoma and Texas had seeded only limited acreage. Seeding of summer and fall potatoes was underway in northern producing States, while harvest of spring potatoes remained active in Arizona, Florida, and Texas. Sugarbeets were being irrigated in California. Sugarbeet planting neared completion in Idaho, Wyoming, and Texas and was near the midpoint in other major producing States. Dry pea and lentil seeding continued in the Pacific Northwest, with Washington growers approaching completion and Idaho growers nearing the midpoint. Alfalfa harvest progressed normally in California. Arizona alfalfa was in good to excellent condition, with harvest active. Stringing of hops began in Washington. Sunflower planting got underway in Texas. Canola bloom continued in Ohio.

FRUIT AND NUTS: Colorado fruit producers were still evaluating damage from the previous week's freeze, with stone fruits suffering the most damage. Florida citrus groves were reported to be in very good to excellent condition. Florida's grapefruit and Valencia harvests were slowing, with excessive fruit drop. Grapefruit and Valencia picking also continued in west and central Arizona. Pruning of freeze damaged citrus trees increased in California. California apricots were sizing well, with harvest approaching in the southern growing regions. Washington fruit trees were past full bloom, and winter injury to trees was starting to show. Wet field conditions made spraying difficult in many New York apple orchards. Pineapple harvest was underway in Hawaii.

VEGETABLES: Hot days and warm nights brought rapid growth and development to Florida's remaining vegetable crops. Harvests of many vegetables were active in Florida with tomatoes, sweet corn, watermelons, cucumbers, peppers, and

(Continued to back cover)

Crop Progress

FOR WEEK ENDING MAY 5, 1991

	COTTON % PLANTED		
	1991	1990	AVG.
AL	49	70	70
AZ	72	96	92
AR	5	16	35
CA	90	95	93
GA	20	40	36
LA	6	82	64
MS	8	53	57
MO	11	6	39
NM	73	75	79
NC	38	46	38
OK	2	1	10
SC	38	48	44
TN	7	8	47
TX	20	16	20

14 STATES 26 37 41

THESE 14 STATES PRODUCED 99% OF THE 1990 COTTON CROP.

	CORN % PLANTED		
	1991	1990	AVG.
CO	53	46	58
GA	95	97	96
IL	60	48	65
IN	32	41	45
IA	15	60	52
KS	65	50	55
KY	50	27	50
MI	8	30	25
MN	11	37	36
MO	51	33	74
NE	30	52	46
NC	90	89	74
OH	28	62	48
PA	17	19	19
SD	5	15	12
TX	91	90	93
WI	9	18	19

17 STATES 32 47 48

THESE 17 STATES PRODUCED 95% OF THE 1990 CORN CROP.

	GRAIN SORGHUM % PLANTED		
	1991	1990	AVG.
AR	24	16	53
CO	0	0	0
IL	4	0	5
KS	4	3	4
LA	52	69	60
MS	37	45	51
MO	7	3	17
NE	0	0	0
NM	10	13	NA
OK	15	1	5
SD	0	1	1
TX	61	61	62

12 STATES 22 21 NA

EXCL. STATES WITH NA 22 21 23

THESE 12 STATES PRODUCED 98% OF THE 1990 GRAIN SORGHUM CROP.

NA - NOT AVAILABLE.

	RICE % PLANTED		
	1991	1990	AVG.
AR	22	12	57
CA	15	15	31
LA	67	73	77
MS	14	38	70
TX	81	77	93

5 STATES 37 35 63

THESE 5 STATES PRODUCED 98% OF THE 1990 RICE CROP.

	WINTER WHEAT % HEADED		
	1991	1990	AVG.
AR	88	85	85
CA	90	95	95
CO	0	0	0
GA	100	99	98
ID	0	0	0
IL	6	5	12
IN	1	0	0
KS	40	10	20
MI	0	0	0
MO	31	13	24
MT	0	0	0
NE	0	0	0
NC	87	87	62
OH	0	0	0
OK	95	45	65
OR	0	0	0
SD	0	0	0
TX	61	60	57
WA	0	0	0

19 STATES 39 23 29

THESE 19 STATES PRODUCED 91% OF THE 1990 WINTER WHEAT CROP.

	SPRING WHEAT % PLANTED		
	1991	1990	AVG.
ID	83	94	89
MN	85	81	67
MT	69	77	66
ND	59	58	53
SD	94	100	78

5 STATES 71 72 62

THESE 5 STATES PRODUCED 97% OF THE 1990 SPRING WHEAT CROP.

Crop Condition

PERCENT

FOR WEEK ENDING MAY 5, 1991

STATE	WINTER WHEAT				
	VP	P	F	G	EX
AR	0	6	74	20	0
CA	0	0	5	85	10
CO	1	7	33	49	10
GA	0	1	28	67	4
ID	8	9	29	43	11
IL	0	1	29	65	5
IN	0	0	22	72	6
KS	1	12	34	43	10
MI	1	5	30	50	14
MO	0	1	30	66	3
MT	8	19	36	33	4
NE	0	17	34	45	4
NC	0	0	10	84	6
OH	1	8	28	49	14
OK	5	15	55	25	0
OR	4	9	43	43	1
SD	4	11	22	40	23
TX	3	29	48	19	1
WA	18	40	22	20	0
19 STATE	3	14	38	39	6
PREV WEEK	3	12	36	42	7
PREV YEAR	0	3	25	57	15

VP - VERY POOR P - POOR F - FAIR
G - GOOD EX - EXCELLENT

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 2.00 to 4.00 in., over 5.00 in. local areas; 1.50 in. common Wiregrass area. Temperatures near normal north; 2 to 4° above normal south.

Days suitable for fieldwork 2.0. Soil moisture 32% adequate, 68% surplus. Acreage intended for spring planting 80% prepared, 86% 1990, 88% avg. Fieldwork progress 80% behind, 20% on schedule. Corn 79% planted, 96% 1990, 91% avg.; 2% poor, 25% fair, 69% good, 4% excellent. Sorghum 22% planted, 54% 1990, 31% avg. Cotton 49% planted, 70% 1990, 70% avg.; 22% poor, 33% fair, 45% good. Peanuts 45% planted, 56% 1990, 40% avg. Soybeans 5% planted, 9% 1990, 8% avg. Winter wheat 98% headed, 93% 1990, 87% avg.; 37% turning color, 42% 1990, 33% avg.; 13% poor, 23% fair, 60% good, 4% excellent. First hay 10% harvested, 12% 1990, 8% avg. Pastures 1% poor, 6% fair, 67% good, 26% excellent. Feed supplies from pastures 67% adequate, 33% surplus. Livestock 9% fair, 69% good, 22% excellent. Primary activities: Land preparation; planting row crops, vegetables; applying fertilizer, lime, herbicides; fertilizing, overseeding pastures; spraying fruit, pecan trees; harvesting, thinning peaches; shearing sheep; general care of livestock, poultry, catfish.

ALASKA: Railbelt wide, full week of warm, dry weather with alternating clouds, sunshine dominated. High temperatures normal to 10° above normal. Lows 3 to 10° above normal. Seasonal precipitation was drier than normal at all stations.

Days suitable for fieldwork 7.0. Soil adequate to surplus. Tanana Valley, the Kenai Peninsula fields remain too wet, in some cases, too laden with unmelted snow, to begin planting, seeding activities, as yet. Small grain seeding should begin in all areas about the 15th. Matanuska Valley commercial potato growers, cutting seed potatoes in preparation for planting. Local hay supplies ranged from primarily short in the Tanana Valley to mostly adequate, elsewhere. Livestock in good shape coming out of winter.

ARIZONA: Generally cooler than normal; clear, dry early in period; light rain, snow extreme north 3rd. Temperatures 1 to 8° below normal. Extremes 40°; 95° deserts, 18°; 90° higher elevations. Precipitation limited to traces extreme north central.

Cotton 72% planted, 96% 1990, 92% avg.; planting active Statewide. Small grains heading, further advanced 97%, 96% 1990, 96% avg.; turning color 54%, 68% 1990, 57% avg. Small grains good Statewide. Alfalfa condition good to excellent; weed, insect infestations light to moderate; harvest moderate to active except southeast, light. Cauliflower, romaine lettuce, peaches, green beans harvested west; red potatoes, chipper potatoes, spring lettuce, mixed vegetables harvested central; valencia oranges, grapefruit harvested west, central. Cattle, calves good condition; stock water supplies, soil moisture adequate. Cooler temperatures limited grass growth. Range, pasture conditions rated 87% of normal.

Northern stockwater supplies, soil moisture short; pasture, range feed supplies below average. Central stock water supplies, soil moisture adequate; feed supplies average. Southeastern ranges supplying average feed supplies; soil moisture, stockwater supplies adequate. Insect damage minimal.

ARKANSAS: Temperatures normal, while numerous showers prominent across the State weekend, heaviest rainfall in south. Extremes 40°; 85°. Rainfall 1.49 to 8.40 in.

Days suitable for fieldwork 3. Soil moisture 21% adequate, 79% surplus. Main farming activities: Preparing land for planting field crops; planting cotton, rice, soybeans, corn, sorghum; fertilizing hay, pastures; sprigging warm season grasses; working livestock. Oats heading 52%, 43% 1990, 55% avg. Some sorghum fields had to be replanted due to excess water. Disease problems in wheat were light to medium, including rust, Septoria, Bacteria streak, powdery mildew. Blueberries were in good condition, strawberries were in full harvest. Pasture 5% fair, 88% good, 7% excellent. Livestock good.

CALIFORNIA: High pressure produced offshore winds, a warming, drying trend. Weather system moved through central areas mid week bringing isolated shower, thundershower activity some cooling later in the week.

Open weather permitted progress field activities. Cotton planting active; some replanting, cool temperatures, wet soils. Rice seeding underway most areas, field preparation nearly complete. Fertilization, water weevil treatments ongoing. Harvest oats, forages for hay, green chop continued. Wheat, barley development progressed, most fields headed. Field corn, sunflower planting continued. Alfalfa harvest normal. Some seed fields irrigated, thinned, hand weeded. Thinning, fertilization, irrigation sugarbeets continued. Harvest over wintered beets ongoing. Normal cultural activities; spraying, thinning, irrigating, weed control continued. Strong winds, southern San Joaquin Valley, caused few almond trees to fall, some trees to lose limbs; overall, crop sizing rapidly. Herbicide application continued. Apricot crop, sizing well, harvest nearing, southern growing regions. Hass variety avocados, harvested. Cherry crop, progressed, some fruit showing color, southern areas. Flame, Perlette grape vines, crown suckered. Pruning, freeze damaged citrus trees increased. Planting, replanting continued lemon, orange groves. Nectarine, peach, plum orchards, thinned, treated to control peach tree borer, Oriental fruit moth. Nectarine orchards, sprayed for thrips, plum orchards, treated for worms, codling moth. Asparagus harvest active, good quality. Broccoli heavy supply, generally good quality. Cauliflower heavy supply, variable quality. Iceberg lettuce supply moderate, central coast, quality variable, small head size. Potato harvest, planting continued Hemet San Jacinto area. Strawberry supplies moderate, central coast, variable quality. Sweet corn planting active. Sweet potato planting began

Merced area. Tomato planting ongoing. Pasture condition mostly fair to good in some northern counties. Light supplemental feeding. Water supplies adequate.

COLORADO: Storm system on the 29th left 4.00 to 8.00 in. of wet snow along the front range with lesser amounts in the northeastern plains. Stronger system affected the State on the 2nd, 3rd when winds of 50 miles per hour or more hit the eastern plains accompanied by tornadoes and hail at several locations. Considerable moisture in mountains, eastern plains. Considerable cloudiness throughout the period kept average temperatures 5 to 9° below normal.

Days suitable for fieldwork 4.7. Soil moisture 5% very short, 43% short, 50% adequate, 2% surplus. Barley seeding 85% complete, 88% 1990, 92% avg.; oats seeding 79%, 94% 1990, 87% avg.; corn planting 53%, 46% 1990, 58% avg.; dry onion planting 91%, 87% 1990, 88% avg. Winter wheat 1% very poor, 7% poor, 33% fair, 49% good, 10% excellent; barley 11% very poor, 10% poor, 49% fair, 27% good, 3% excellent; dry onion 1% very poor, 3% poor, 31% fair, 57% good, 8% excellent. Winter wheat 70% jointed, 62% 1990, 59% avg. Some frost, wind damage to small grains in south central section will result in some replanting. Fruit producers still evaluating damage from previous weeks freeze. Livestock condition mostly good. Pasture, range feed condition mostly fair.

FLORIDA: Temperatures 3 to 8° above normal throughout State. Highs mid 90s central, south interior; lows mid 50s Big Bend area. Rainfall less than 0.50 in. except 1.00 to 3.00 in. Panhandle, northeast.

Soil moisture adequate to surplus northern Peninsula; mostly adequate other areas. Cotton, peanut planting active. Winter wheat condition reduced by disease problems. Farmers made preparations to plant soybeans. Corn, sugarcane, tobacco making good progress. Statewide pastures good to excellent. Pasture ratings, 20% fair, 40% good, 40% excellent. Cattle condition mostly good to excellent. Citrus groves, trees very good to excellent condition. Moisture generally adequate, some irrigation on sand hills. Excessive fruit drop continues on many remaining valencies, grapefruit; valencia harvest active but slowing with limited supplies remaining. Grapefruit movement also slowing with most crops located on lower east coast. Hot days, warm nights prevailed over major vegetable producing areas. Rainfall limited. Most spring crops made rapid growth, development. Homestead potato deal completed. Harvest active central areas, increasing northern areas. Volume leaders: potatoes, tomatoes, sweet corn, watermelons, cucumbers, peppers, celery. Also available snap beans, cabbage, carrots, eggplant, escarole, lettuce, radishes, squash. First Zellwood sweet corn pulled.

GEORGIA: Wet week. Heaviest rain north 2.00 to 5.00 in. common. Central to south 1.00 to 3.00 in. Extreme southeast to south central less than 0.50 in. Warm, temperatures 2 to 4° above normal north, 4 to 7° above normal south. Warmest ranged low, mid 80s north, upper 80s, low 90s central and south. Hottest 95° at Jesup. Coolest 23rd, lows ranging upper 30s to low 40s colder mountain locations, mostly upper 50s south.

Days suitable for fieldwork 3.1. Soil moisture 51% adequate, 49% surplus. Corn 9% fair, 80% good, 11% excellent. Cotton 16% fair,

67% good, 17% excellent. Sorghum 16% fair, 77% good, 7% excellent; 28% planted, 25% 1990, 24% avg. Peanuts 18% fair, 73% good, 9% excellent; 33% planted, 55% 1990, 46% avg. Soybeans 16% fair, 84% good; 2% planted, 10% 1990, 6% avg. Tobacco 24% fair, 74% good, 2% excellent. Watermelons 5% fair, 68% good, 27% excellent; 94% planted, 95% 1990, 95% avg. Rye 6% poor, 25% fair, 67% good, 2% excellent. Other small grains 7% poor, 18% fair, 70% good, 5% excellent. Apples 100% good; 100% blooming, 100% 1990, 100% avg. Peaches 10% poor, 15% fair, 75% good; 4% harvested, 9% 1990. Onions 83% poor, 14% fair, 3% good; 51% harvested, 64% 1990. Pasture 2% fair, 75% good, 23% excellent. Cattle, hogs good to excellent.

HAWAII: Weather mostly sunny with passing showers windward, mountain areas. Conditions beneficial to crop development, agriculture. High pressure system north of island chain caused light to moderate trade winds 10 to 25 mph. Temperatures high 60s to mid 80s. Rainfall none to 7.20 in.

Days suitable for fieldwork 7.0. Most crops made good progress during week. Papaya production took slight upswing. Tomato plantings some areas bothered by heavy whitefly infestations. Sugarcane, pineapple harvesting, planting operations made normal progress.

IDAHO: Temperatures were below normal across State. Precipitation covered most of Idaho with highest amounts in south central area.

Days suitable for fieldwork 5. Soil moisture 4% very short, 20% short, 71% adequate, 5% surplus. Winter wheat 26% jointed. Spring barley 77% planted, 95% 1990, 84% avg.; emerged 43%, 76% 1990, 56% avg. Oats 50% planted, 82% 1990, 73% avg.; emerged 33%, 50% 1990, 41% avg. Potatoes 36% planted, 62% 1990, 49% avg. Sugarbeets 99% planted, 99% 1990, 99% avg.; emerged 47%, 86% 1990, 74% avg. Dry peas 51% planted. Lentils 50% planted. Field corn 23% planted. South central areas reported wind causing soil erosion problems. Replanting of sugarbeets nearing completion. Irrigation water supplies were fair to good. Activities: Field preparation, seeding, fertilizing, weed control, irrigation. Pasture, range condition 80% of normal. Hay, roughage supplies adequate.

ILLINOIS: Temperatures 1 to 2° below normal north to central, 1 to 4° above normal south. Precipitation was above normal 0.01 to 2.61 in. in the central, below normal from 0.02 to 0.65 in the north, south.

Days suitable for fieldwork 4.5. Soil moisture 4% short, 86% adequate, 10% surplus. Oats seeded 94%, 94% 1990, 98% avg. Livestock roughage requirements from pasture 73%, 66% 1990, 73% avg. Alfalfa 2% poor, 10% fair, 74% good, 14% excellent.

INDIANA: Temperatures normal to 5° above normal. Lows mid 40s to low 50s, highs mid 60s to mid 70s. Precipitation 0.50 to 1.50 in.

Days suitable for fieldwork 4.4. Topsoil 81% adequate, 19% surplus. Subsoil 73% adequate, 27% surplus. Spring cropland 84% tilled, 85% 1990, 90% avg. Soybeans 8% planted, 6% 1990, 11% avg. Wheat 15 in. high, 14 in. 1990, 13 in. avg. Wheat 65% jointed, 75% 1990, 65% avg. Oats 85% seeded, 88% 1990, 89% avg. Clover 94% seeded, 94% 1990, 94% avg. Pasture 93% of normal, 100% is defined as normal. Excellent progress made with best weather thus far this season.

IOWA: Temperatures 1 to 8° below normal. Extremes 31°; 80°. Precipitation 0.29 to 3.12 in.; average 1.57 in. April 1991 was wettest April ever, rainfall 5.87 in.

Days suitable for fieldwork 2.0. Topsoil 2% short, 34% adequate, 64% surplus; Subsoil 2% short, 46% adequate, 52% surplus. Winter wheat 2% poor, 24% fair, 68% good, 6% excellent. Hay 5% poor, 19% fair, 66% good, 10% excellent. Pasture mostly good to excellent. Oat 4% poor, 31% fair, 59% good, 6% excellent. Oats 90% sown, 100% 1990, 99% avg. Oats 75% emerged, 90% 1990, 80% avg. Seedbed preparation 75% completed, 91% 1990, 87% avg. Fertilizer application 75% completed, 93% 1990, 89% avg. Livestock were in mostly good condition. Extremely muddy feedlots continue to cause stress to confined cattle. Movement of cattle to pasture as forage growth is mostly adequate.

KANSAS: Temperatures 3° below normal western third, normal elsewhere. Precipitation recorded all areas; totals avg. 1.00 in. northwest, south central; 1.50 to 1.75 in. northeast, southeast; 0.50 to 1.00 in. elsewhere.

Days suitable for fieldwork 3.5. Surface moisture 36% short, 56% adequate, 8% surplus. Subsurface moisture 59% short, 41% adequate. Wheat continues good progress; cool wet weather slowed development; provided much needed moisture. Freezing temperatures over weekend not likely to cause damage. Corn planting good progress, stands emerging but cool cloudy weather delaying growth. Sorghum, soybean planting started; progress about normal; moisture adequate for planting, seed germination. Cutting alfalfa gaining momentum. Ranges, pastures improving; burning about over.

KENTUCKY: Temperatures 65°, .5 to 1° above normal. High afternoon temperatures mid 80s, lows mid 30s. All areas received rain, heaviest south, between 1.00 to 2.00 in.

Days suitable fieldwork 5.1. Soil moisture 9% short, 81% adequate, 10% surplus. Corn planting ahead 1990, equals average. Corn planted 50%; corn emerged 30%. Wheat headed 57%, 41% 1990, 45% avg. Wheat 3% poor, 21% fair, 66% good, 10% excellent. Soybeans planted 3%, 1% 1990, 4% avg.; just started planting. Tobacco plants less than 2 in. tall 56%, 2 to 4 in. 34%, greater than 4 in. 10%. Tobacco expected average first setting 13th. Alfalfa expected average first cutting 8th. Pastures excellent.

LOUISIANA: Temperatures 0.8° to 4.3° above normal. Extremes 51°; 88°. Rainfall 2.09 in. south central to 8.81 in. north central.

Days suitable for fieldwork 0.7. Soil moisture supplies 5% adequate, 95% surplus. Spring plowing 73%, 84% 1990, 92% avg. Corn 5% very poor, 17% poor, 72% fair, 6% good; 97% planted, 98% 1990, 97% avg.; 96% emerged, 96% 1990, 91% avg. Many fields being stressed due to excessive soil moisture. Cotton 4% emerged, 52% 1990, 40% avg. Hay 4% first cutting, 10% 1990, 14% avg. Rice 8% very poor, 17% poor, 42% fair, 33% good; 58% emerged, 58% 1990, 64% avg. Sporadic herbicide spraying, fertilizing. Sorghum 42% poor, 58% fair; 47% emerged, 52% 1990, 45% avg. Sweet potatoes 8% planted, 7% 1990, 14% avg. Sugarcane 40% fair, 60% good. Rust disease problem, southeast. Wheat 22% poor, 67% fair, 11% good; 90% headed, 98% 1990, 98% avg.; 54% turning color, 55% 1990, 46% avg. Lodging widespread due to excessive rainfall, wind. Vegetables 9% very poor, 26%

poor, 48% fair, 17% good. Pasture 2% poor, 29% fair, 66% good, 3% excellent. Livestock 3% very poor, 5% poor, 18% fair, 69% good, 5% excellent.

MARYLAND & DELAWARE: **MARYLAND:** Precipitation 0.24 in. Temperatures 64.3°, normal 58.9°. Extremes 32°; 86°.

Days suitable for fieldwork 5.8. Topsoil 19% short, 71% adequate, 10% surplus. Subsoil 95% adequate, 5% surplus. Winter wheat 38% headed, 33% 1990, N/A avg. Barley 83% headed, 75% 1990, 63% avg. Rye 62% headed, 69% 1990, 72% avg. Oats 85% planted, 95% 1990, 90% avg. Corn 38% planted, 42% 1990, 36% avg. Sweet corn 39% planted, 22% 1990, 30% avg. Potatoes 84% planted, 91% 1990, 93% avg. Watermelons 17% planted, 28% 1990, 40% avg. Cantaloupes 18% planted, 24% 1990, 36% avg. Cucumbers 27% planted, 44% 1990, 33% avg. Lima beans 42% planted, 11% 1990, 3% avg. Snap beans 52% planted, 43% 1990, 32% avg. Green peas 83% planted, 100% 1990, 100% avg. Tomatoes 51% planted, 25% 1990, N/A avg. Small grains good condition. Pasture excellent condition. Strawberries 84% bloomed, 83% 1990, 75% avg. Activities: Soil preparation, planting vegetables, corn, oats, tobacco, repairing fences, hauling manure, spreading fertilizer, maintaining machinery, caring for livestock.

DELAWARE: Precipitation 0.19 in. Temperatures 63.1°, normal 59°. Extremes 45°; 81°.

Days suitable for fieldwork 5.8. Topsoil 100% adequate. Subsoil 100% adequate. Winter wheat 51% headed, 31% 1990, N/A avg. Barley 87% headed, 65% 1990, 65% avg. Rye 95% headed, 68% 1990, 54% avg. Corn 37% planted, 52% 1990, 46% avg. Sweet corn 33% planted, 42% 1990, 47% avg. Watermelons 10% planted, 14% 1990, 9% avg. Green peas 76% planted, N/A 1990, N/A avg. Small grains good condition. Pasture excellent condition. Strawberries 80% bloomed, 61% 1990, 72% avg. Activities: Soil preparation, planting vegetables, corn, repairing fences, hauling manure, spreading fertilizer, maintaining machinery, caring for livestock.

MICHIGAN: Temperatures 1° below to 2° above normal. Extremes 28°; 78°. Precipitation none to 0.71 in. across the State.

Days suitable for fieldwork 2.5. Soil moisture 2% short, 38% adequate, 60% surplus. Corn 8% planted, 30% 1990, 25% avg. Oats 50% planted, 85% 1990, 80% avg. Potatoes 20% planted, 25% 1990, 20% avg. Soybeans 5% planted, 2% 1990, 1% avg. Sugarbeets 25% planted, 95% 1990, 90% avg. Winter wheat 0% headed, 0% 1990, 0% avg.; condition 1% very poor, 5% poor, 30% fair, 50% good, 14% excellent. Pasture condition 85% of normal. Major activities: spreading fertilizer, repairing equipment, fence, barn, silo cleaning, some planting, chemical application.

MINNESOTA: Temperatures 4 to 9° below normal. Extremes 25°; 76°. Precipitation amounts generally between 1.50 to 3.50 in. with the greatest weekly total of 4.10 in.

Days suitable for fieldwork 1.0. Topsoil 1% short, 52% adequate, 47% surplus. Subsoil 3% very short, 20% short, 66% adequate, 11% surplus. Spring wheat 85% planted, 81% 1990, 67% avg.; 72% emerged, 58% 1990, 67% avg. Oats 67% planted, 84% 1990, 76% avg.; 32% emerged, 20% 1990, 21% avg. Barley 70% planted, 77% 1990, 61% avg.; 21% emerged, 20% 1990, 21% avg. Field corn 42% ground prepared, 63% 1990, 58% avg.; 11% acreage planted, 37% 1990, 36% avg. Soybeans 10% ground prepared, 24% 1990, 28% avg.; 1% acreage planted, 20% 1990, 9% avg. Potatoes 13% planted, 25% 1990, 23% avg. Sugarbeets 45% planted, 82% 1990, 64%

avg. Dry beans 5% planted, 0% 1990, 5% avg. Green peas 34% planted, 54% 1990, 55% avg. Sweet corn 2% planted, 19% 1990, 16% avg.

MISSISSIPPI: Temperatures 70°, 1.1° above normal. Extremes 45°; 89°. Mostly wet Statewide. Rainfall 4.87 in., 3.63 in. above normal. Soil temperatures 70°.

Days suitable for fieldwork 0.7, 3.7 1990, 5.5 avg. Soil moisture 6% adequate, 35% surplus, 59% excessive. Corn 61% planted, 75% 1990, 82% avg.; 59% emerged, 68% 1990, 67% avg.; 1% very poor, 40% poor, 41% fair, 18% good. Cotton 8% planted, 53% 1990, 57% avg.; 5% emerged, 33% 1990, 27% avg. Peanuts 19% planted, 18% 1990, 29% avg. Rice 14% planted, 38% 1990, 70% avg.; 11% emerged, 14% 1990, 34% avg. Sorghum 37% planted, 45% 1990, 51% avg.; 31% emerged, 31% 1990, 33% avg. Soybeans planted 1%, 7% 1990, 7% avg.; emerged 0%, 3% 1990, 3% avg. Sweet potatoes 17% planted, 10% 1990, 25% avg. Watermelons 78% planted, 73% 1990, 70% avg. Wheat 98% jointing, 100% 1990, 100% avg.; 93% heading, 97% 1990, 89% avg.; 9% very poor, 28% poor, 47% fair, 15% good, 1% excellent, mature 8%, 18% 1990, 8% avg. Hay harvested 1%, 9% 1990, 9% avg. Peaches 2% poor, 30% fair, 53% good, 15% excellent. Livestock 9% poor, 70% fair, 21% good. Pasture 91% of normal. Activities: Shopwork, working on drainage, repairing equipment.

MISSOURI: Temperatures 6° above normal St. Louis to 4° below normal St. Joseph. Rainfall under 1.00 in. south central, southeast to over 3.00 in. north central, northeast.

Days suitable for fieldwork 2.1. Topsoil 1% short, 58% adequate, 41% surplus. Subsoil 6% short, 81% adequate, 13% surplus. Corn planting varies 33% or less northwest, south central to over 70% west central, southeast. Soybean planting less than 5% all major districts. Wheat heading ranges 13% northern third to 59% southeast. Alfalfa hay first cutting 4%, 0% 1990, 1% avg. Ground worked at least once for spring crops 85%, 71% 1990, 83% avg. Pasture 1% poor, 12% fair, 68% good, 19% excellent.

MONTANA: Storm systems first and last of week. Temperatures 4 to 16° below normal. Coldest east. Moisture received Statewide. East of Divide 0.50 in. common. Almost all eastern locations now above normal for year.

Days suitable for fieldwork 2.0. Topsoil 12% short, 81% adequate, 7% surplus. Subsoil 48% short, 47% adequate, 5% surplus. Barley planted 57%, 72% 1990, 66% avg. Oats planted 46%, 67% 1990, 58% avg. Corn planted 31%, 30% 1990, 36% avg. Dry beans planted 13%, 17% 1990, 19% avg. Potatoes planted 1%, 8% 1990, 10% avg. Sugar beets planted 64%, 99% 1990, 82% avg. Calving 92% complete, lambing 82% done. Pasture and range feed condition 77%.

NEBRASKA: Temperatures 7 to 12° below normals. Precipitation occurred intermittently varying 0.13 in. at Scottsbluff up 2.35 in. at North Platte.

Days suitable for fieldwork 3.7. Topsoil 10% short, 74% adequate, 16% surplus. Subsoil 52% short, 46% adequate, 2% surplus. Wheat 17% poor, 34% fair, 45% good, 4% excellent; 40% jointed, 71% 1990, 54% avg. Corn 30% planted, 52% 1990, 46% avg. Alfalfa 1% very poor, 4% poor, 37% fair, 55% good, 3% excellent. Pasture, range condition 78% normal.

NEVADA: Temperatures below normal. Extremes 12°; 91°. Precipitation none to 0.79.

Spring wheat 80% planted, 77% 1990, 69% avg.; 61% emerged, 62% 1990, 51% avg. Oats 60% planted, 79% 1990, 61% avg.; 52% emerged, 66% 1990, 45% avg. Barley 78% planted, 78% 1990, 66% avg.; 53% emerged, 60% 1990, 46% avg. Potatoes 63% planted, 95% 1990, 42% avg. Irrigation water supplies 23% very short, 45% short, 32% adequate, mostly from well sources. Small grains fair to good condition, mostly fair. Alfalfa hay mostly good condition. Cool weather has slowed plant development. Cold, dry weather damage to garlic in some areas. Late spring planting, fertilizing, irrigation major activities. Pasture, range condition 67% of normal. Calving, lambing, branding, shearing continues. Culling in some areas due to lack of water.

NEW ENGLAND: Precipitation 0.35 to 1.75 in. across State. Temperatures 45 to 57°, 3 to 9° below normal.

Days suitable for fieldwork 4.8. Soil moisture 5% very short, 3% short, 74% adequate, 18% surplus. Grazing availability 9% very short, 12% short, 70% adequate, 9% surplus. Fieldwork progress 3 days ahead. Rhode Island potatoes 17% planted, 45% 1990, 34% avg.; condition good. Connecticut River Valley potatoes 60% planted, 50% 1990, 31% avg. Field corn 13% planted, 5% 1990, 6% avg.; condition fair to good. Sweet corn 14% planted, 7% 1990, 11% avg.; fair to good condition. Hay condition good. Fruit trees bud to early bloom stage, except peaches early to full bloom. Blueberries, strawberries bud to early bloom. Cranberries delayed dormant; no frost damage to date. Major farm activities: Plowing, spreading manure, fertilizing, field preparation.

NEW JERSEY: Temperatures near normal. Extremes 34°; 82°. Rainfall 0.55 in. north, 0.34 in. central, 0.52 in. south. Heaviest 24 hour total 0.66 in. on 1st, 2nd. Estimated soil moisture percent field capacity, averaged 89% north, 80% central, 75% south. Four inch soil temperature averaged 56° north, 58° central, 59° south.

Fieldwork active. Summer vegetable planting increased. Early spring vegetable harvest increased. Fruit spraying active; windy weather caused problems. Oat seeding about complete. Field corn planting active. First cutting of alfalfa started. Soil preparation underway for soybeans. Pasture growth good.

NEW MEXICO: Unusually cool temperatures recorded across State during the week. Northern areas 6 to 8° below normal with several nights of lows in lower teens to 10°. Temperatures 2 to 5° colder than normal in southern half of State. Precipitation again very scant.

Days suitable for fieldwork 6.4. Soil moisture 79% short, 21% adequate. Alfalfa 5% poor, 62% fair, 33% good. Cotton 67% fair, 33% good. Irrigated wheat 12% poor, 47% fair, 41% good. Dry wheat 26% very poor, 61% poor, 13% fair. Lettuce good condition. Chile condition poor to good. Onions fair to good condition. Late freeze greatly damaged apple crop and slight affect on cotton, pecans, and alfalfa. Cooler temperatures slowing growth of all crops. Cattle and sheep poor to good condition. Range, pasture 60.4% of normal, ranging from 20% to 110%.

NEW YORK: Seasonably mild with light to moderate rainfall. Extremes 25°; 81°. Rainfall was greatest in southeastern areas, light in western, northern regions. Amounts ranged up to 1.45 in.

Days suitable for fieldwork 3.6. Soil moisture mostly surplus. Wet weather prevented fields

from drying. Pasture condition was 88% of normal. Hay in fair to good, wheat mostly good condition. Corn planting reached 5%, 6% 1990, 7% avg. Oats 47% seeded, 32% 1990, 46% avg. Early planted fields had emerged. Sweet cherries in Lake Ontario region in full bloom. Bartlett pears near full bloom. Apple orchards in many areas have been very wet which has made spraying difficult. Vegetable planting continued. Orange County onion planting neared completion. Strawberries good.

NORTH CAROLINA: Temperatures 4 to 10° above normal across the State. Precipitation 0.06 to 2.67 in.

Days suitable for fieldwork 4.3. Soil moisture 6% short, 68% adequate, 26% surplus. Crop condition: Wheat 10% fair, 84% good, 6% excellent; oats 10% fair, 85% good, 5% excellent; barley 9% fair, 86% good, 5% excellent; rye 7% fair, 90% good, 3% excellent; pasture 4% fair, 76% good, 20% excellent; tobacco beds 22% fair, 72% good, 6% excellent; tobacco 22% fair, 73% good, 5% excellent; corn 2% poor, 19% fair, 71% good, 8% excellent; cotton 17% fair, 83% good; hay 11% fair, 77% good, 12% excellent; irish potatoes 4% poor, 7% fair, 82% good, 7% excellent; peaches 10% fair, 74% good, 6% excellent; truck crops 2% poor, 15% fair, 73% good, 10% excellent. Corn planted 90%; cotton planted 38%; sorghum planted 28%; peanuts planted 17%; soybeans planted 10%; flue cured tobacco transplanted 65%. Wheat headed 87%. Tobacco plant bed supplies 4% short, 86% adequate, 10% surplus. Major activities included: Planting corn, cotton and truck crops; land preparation; transplanting flue cured tobacco. Other activities included: planting sorghum, soybeans; harvesting truck crops; spraying small grains, corn; fertilizing pastures; tending tobacco beds; tending livestock; equipment repair; general farm maintenance.

NORTH DAKOTA: Temperatures 11° below normal southwest to 7° below normal east central. Extremes 21° southwest; 66° southeast. Significant amounts of moisture fell throughout the State both early, weekend. Precipitation 0.47 in. southwest to 2.36 in. northeast.

Days suitable for fieldwork 1.3. Topsoil supplies continued to improve, ahead of average. Subsoil also improved, remained well below average. Topsoil 2% short, 98% adequate. Subsoil 25% very short, 64% short, 11% adequate. Planting progress slowed due to cool, damp conditions most of week. Hard red spring wheat 59% planted, 58% 1990, 53% avg.; durum wheat 35%, 33% 1990, 34% avg.; barley 62%, 55% 1990, 51% avg.; oats 45%, 57% 1990, 51% avg.; corn 6%, 8% 1990, 11% avg.; flax 5%, 4% 1990, 7% avg.; potatoes 4%, 1% 1990, 10% avg.; sugarbeets 47%, 71% 1990, 67% avg. Winter wheat 9% poor, 52% fair, 35% good, 4% excellent; 93% stooling or earlier, 7% jointing. Calving 92% complete, lambing 95%, shearing 95%. Pasture conditions rated 57% of normal, furnished 24% roughage requirements. Stockwater supplies 14% very short, 42% short, 44% adequate.

OHIO: Light rains early in the period and heavier rains at the end brought 0.40 to 0.70 in. with some 1.00 in totals in the northwest. Temperatures 1 to 7° above normal. Highs in mid 60s to 70s. Lows mid 40s to low 50s. Soil temperatures four inches under bare soils reached a maximum in the 60s and minimums in the 50s.

Days suitable for fieldwork 4.9. Soil moisture 72% adequate, 28% surplus. Field conditions much improved for planting from previous period. Corn emergence varied widely taking 10 to 30 days. Soybean planting started especially where fields for beans were ready and fields for corn were not. Winter wheat mostly good; growing vigorously. Jointing observed in 34% of the stands compared with 41% in 1990 and the 27% average. Scouters checking fields for insects found no activity of economic importance. Oat planting reached 88%, 93% 1990, 88% avg. Oats emerged on 64% of intended acreage, 61% 1990, 62% avg. Alfalfa weevil infestations reported; only a few treated. Pasture, hay stands rated good. Sugarbeet planting 67% complete. Canola bloom continued. Potato planting 33% complete. First processing tomatoes transplanted. Tree fruits had good bloom; bee activity, pollination improved with warmer temperatures.

OKLAHOMA: Temperatures 6° below normal Panhandle to 1° below normal east central. Precipitation 0.45 in Panhandle to 2.22 in. south central.

Days suitable for fieldwork 5.3. Topsoil 30% short, 55% adequate, 15% surplus. Subsoil 35% short, 65% adequate. Wheat 5% very poor, 15% poor, 55% fair, 25% good; 95% heading, 45% 1990, 65% avg.; 10% soft dough, 1% 1990, 15% avg. Wheat fair to good; development ahead of normal. Insect activity light. Corn 97% seedbed prepared, 95% 1990, 99% avg.; 70% planted, 65% 1990, 80% avg.; 35% up to stand, 35% 1990, 55% avg. Sorghum 75% seedbed prepared, 50% 1990, 65% avg.; 15% planted, 1% 1990, 5% avg. Soybeans 85% seedbed prepared, 55% 1990, 65% avg.; 25% planted, 1% 1990, 10% avg. Peanuts 60% seedbed prepared, 35% 1990, 75% avg.; 1% planted, 0% 1990, 5% avg. Cotton 80% seedbed prepared, 45% 1990, 75% avg.; 2% planted, 1% 1990, 10% avg. Alfalfa 30% first cutting, 10% 1990, 20% avg. Pasture condition 80%. Cattle fair to good, marketings average, prices mixed.

OREGON: Temperatures near normal most areas. South central, northeast mountain areas 4° below normal. Precipitation 0.10 to 0.20 in. Cascades, west; light moisture Cascades east.

Soil moisture 45% short, 50% adequate, 5% surplus. Winter wheat 4% very poor, 9% poor, 43% fair, 43% good, 1% excellent. Barley 78% planted, 89% 1990, 88% avg. Drier, warmer weather allowed fieldwork, west, still lags; tillage, fertilization, weed control continued, east, crop stress some areas. Wet conditions delay vegetable planting, west; onions two thirds done Willamette Valley. Wet weather adversely affecting fruit pollination, strawberry bloom continues, Willamette Valley. Pollination excellent upper valley; pear crop good, apple bloom good to very poor, Hood River district; pear crop normal, Medford area. Livestock good to excellent, all areas; branding, turn out continuing, sheep shearing, fence, water facilities repair Baker and Wallowa Co. Pastures good to excellent, west; fair to good, east; Gilliam Co. pasture extreme short supply. Statewide, range, pasture 3% poor, 20% fair, 75% good, 2% excellent.

PENNSYLVANIA: Dry week with above normal temperatures. Temperature 57°, 5° above normal. Extremes 31°; 84°. Precipitation 0.28 in., 0.54 in. below normal.

Days suitable for fieldwork 5. Soil moisture 2% short, 90% adequate, 8% surplus. Plowing 71% complete, 73% 1990, 73% avg. Corn 17% planted, 19% 1990, 19% avg. Soybeans 1% planted, 2% 1990,

6% avg. Oats 82% planted, 81% 1990, 81% avg. Potatoes 38% planted, 42% 1990, 51% avg. Tobacco beds 95% planted, 94% 1990, 96% avg. Barley 74% pre boot, 75% 1990, 77% avg.; 24% boot, 18% 1990, 17% avg.; 2% heading or headed, 7% 1990, 6% avg. Wheat 87% pre boot, 87% 1990, 91% avg.; 12% boot, 12% 1990, 9% avg.; 1% heading or headed, 1% 1990, 0% avg. Wheat 2% very poor, 3% poor, 21% fair, 53% good, 21% excellent. Oats 2% very poor, 2% poor, 22% fair, 56% good, 18% excellent. Hay stands mostly good. Alfalfa first cutting 0% complete, 0% 1990, 1% avg. Feed from pastures 1% very poor, 2% poor, 35% fair, 62% good. Peaches 22% pre pink, 29% 1990, 20% avg.; 11% pink, 11% 1990, 15% avg.; 67% full bloom or past, 60% 1990, 65% avg. Cherries 19% pre pink, 28% 1990, 17% avg.; 11% pink, 7% 1990, 16% avg.; 70% full bloom or past, 65% 1990, 67% avg. Apples 25% pre pink, 31% 1990, 29% avg.; 21% pink, 19% 1990, 26% avg.; 54% full bloom or past, 50% 1990, 45% avg. Activities: Spring plowing, planting; repairing fence; spraying; hauling manure; spreading fertilizer, lime; maintaining machinery; caring for livestock.

PUERTO RICO: Island rainfall 0.39 in. was 1.02 in. below normal. Highest weekly rainfall 2as 5.10 in. at Adjuntas Aes, 4.27 in. at Toro Negro, 1.69 in. at Mayaguez. Highest 24 hour total 3.73 in. at Toro Negro. Divisional temperature 79° on the Coasts, 73 to 76° in the Interior with Mean station temperatures 64.8° at Pico Del Este Luquillo to 82° at Roosevelt Roads N.S. Extremes 55°; 93°.

SOUTH CAROLINA: Temperatures averaged 3 to 5° above normal. Rainfall varied from 1.20 in. in the northeast to 2.50 in. in the southern.

Days suitable for fieldwork 4.3. Soil moisture 7% short, 77% adequate, 16% surplus. Tobacco fair to good; 97% planted, 100% 1990, 87% avg. Corn fair to good; 95% planted, 98% 1990, 95% avg. Watermelons fair to good; 87% planted, 84% 1990, 86% avg. Cantaloupes fair to good; 79% planted, 77% 1990, 76% avg. Peaches good. Cucumbers fair to good; 80% planted, 89% 1990, 84% avg. Snap beans fair to good; 60% planted, 56% 1990, 69% avg. Oats fair to good; 88% headed, 91% 1990, 86% avg.; 27% turning color, 30% 1990, 15% avg. Wheat fair to good; 95% headed, 96% 1990, 86% avg.; 27% turning color, 29% 1990, 14% avg. Barley good; 13% turning color, 16% 1990, 12% avg. Rye fair to good; 27% turning color, 34% 1990, 20% avg. Grain hay fair to good; 23% harvested, 37% 1990, 29% avg. Pastures fair to good.

SOUTH DAKOTA: Two major weather systems moved through State. State below normal temperatures, most stations report above normal precipitation. Temperatures 10° below normal. Extremes 19°; 73°. Precipitation up to 3.50 in. northeast. Below 0.50 in. northwest.

Days suitable for fieldwork 2.3. Topsoil 6% short, 86% adequate, 8% surplus. Subsoil 7% very short, 33% short, 57% adequate, 3% surplus. Feed supplies 1% very short, 17% short, 70% adequate, 12% surplus. Stockwater supplies 1% very short, 24% short, 55% adequate, 20% surplus. Water supply improving, some areas need heavy rain for runoff. Rye 2% poor, 10% fair, 49% good, 39% excellent. Livestock 1% poor, 4% fair, 74% good, 21% excellent. Cool, wet weather causing scours, pneumonia in calves.

TENNESSEE: Low pressure systems brought rain early week, weekend. Temperatures slightly above normal. Precipitation above normal west,

east; below normal middle, Plateau.

Days suitable for fieldwork 3.3. Soil moisture 76% adequate, 24% surplus. Corn 38% planted, 30% 1990, 62% avg. Cotton 7% planted, 8% 1990, 47% avg. Sorghum 8% planted, 4% 1990, 22% avg. Tobacco 8% transplanted, 4% 1990, 3% avg. Wheat 45% headed, 65% 1990, 61% avg.; 26% fair, 71% good, 3% excellent. Alfalfa 5% 1st cutting, 7% 1990, 14% avg. Insect problems on the increase. Many fields still too muddy to plant.

TEXAS: Northeast, southeast, central Texas bombarded much of week by thunderstorms generated by large, slow moving upper air system. Thunderstorms yielded heavy rains over Northeast and produced severe weather in spots. Some other regions such as Lower Valley also affected with large hail producing moderate, scattered crop damage there. Eastern south Plains picked up some much needed rain toward end of week. Temperatures cooled sharply over weekend as cold front swept out warm, moist air which had been in place. For week, temperatures averaged below normal in west, north central areas, near normal elsewhere. Rainfall ran below normal except for northern Low Plains, northern east Texas, south central, south Texas areas.

Crops: Small grains received some moisture relief last week, but many fields past stage of help. Wheat fields on Plains heading, but expected yields continued below normal. Wheat fields on Low Plains being cut, baled for hay. Wheat yields in Hill Country, central Texas expected light to good as fields began turn color, approach hardening stage. Statewide wheat condition is rated at 54% of normal compared with 72% 1990. Corn planting continued on Plains last week, emerged fields up to good stands. Some producers began irrigating. Elsewhere, corn fields growing rapidly, showing good development as cultivation continued. Statewide corn condition is rated at 86% of normal compared with 88% 1990. Sorghum planting also continued on High Plains. Producers on Low Plains waiting for more moisture. Some sorghum stands in Hill Country poor, uneven due dry conditions, stands elsewhere growing, developing rapidly. Statewide sorghum condition is rated at 83% of normal compared with 87% 1990. Cotton planting started on irrigated fields on High Plains. Low Plains producers continued wait for more moisture, warmer temperatures. Cultivation, weed control activities continued most other areas of State. Cotton 0% squared, 4% 1990, 1% avg. Rain continued to delay completion rice planting in Upper Coast. Some producers having to replant. Elsewhere, emerged fields continued normal growth. Rice 58% emerged, 54% 1990, 71% avg. Limited peanut planting underway on Low Plains, most part, producers need more moisture to continue pre planting activities. Other field crops: Peanuts 1% planted, 3% 1990, 6% avg. Soybeans 22% planted, 21% 1990, 18% avg. Sugarbeets 86% planted, 91% 1990, 97% avg. Sunflowers 1% planted, 11% 1990, 6% avg. Peaches continued to develop on over loaded trees. Some east Texas producers reported earlier varieties beginning to ripen. Pecan trees across State in good condition. Some producers began zinc spraying.

Commercial Vegetables: Rio Grande Valley, onion harvest winding down as good yields continued. Watermelon harvest got underway. Other crops continued normal progress. San Antonio Winter Garden, strawberry harvest continued. Onion, lettuce harvest underway. Watermelons continued good progress. Some insect pressure reported on squash, cucumbers. East Texas, insect pressure continued to increase.

Watermelon, cantaloupe sets developing rapidly as watermelon replanting continued. Green onions, radishes, greens, potato harvest underway. High Plains, onion sets continued good progress as irrigation continued. Tomato, pepper planting continued as planting of other warm season vegetables got underway. Trans Pecos, chili plants continued good progress. Cantaloupes emerging fast. Onion plants making good growth as irrigation continued.

Range and Livestock: Forage production remained limited on Plains as producers had to increase supplemental feeding. Forage production most other areas continued to increase as fertilizer applications became more common. Horn flies, other common pest populations increasing on State livestock, still pose no major threat. Livestock remained in good shape. Range, pasture 1% very poor, 14% poor, 42% fair, 31% good, 12% excellent.

UTAH: Temperature maximums 11° below normal throughout the State; minimums 7° below normal. Precipitation was reported in all divisions of the State, ranged from heavy in the western, mountainous regions, to light in the southeast and Dixie.

Days suitable for fieldwork 4.1. Soil moisture 29% short, 51% adequate, 20% surplus. Spring wheat 86% emerged, 91% 1990, 83% avg. Barley 78% emerged, 87% 1990, 80% avg. Corn 30% planted, 38% 1990, 42% avg; 5% emerged, 21% 1990, 14% avg. Oats 80% seeded, 87% avg; 53% emerged 58% 1990, 55% avg. Potatoes 35% planted, 20% 1990. Winter wheat height 6.1 in., 10.1 in. 1990, 8.9 in. avg. Alfalfa height 6.0 in., 12 in. 1990, 9.8 in. avg. Pasture, range condition fair to good. Calf, lamb losses mostly normal. Cold, wet weather has slowed growth of crops, range, has been hard on range flocks. Pollination in fruit trees has been hurt by cold weather.

VIRGINIA: Temperatures slightly above normal. Temperatures cooled to seasonal levels at night at the end of the week. Extremes 40°; 87°. Precipitation below normal in central areas to above normal in the southwest.

Days suitable for fieldwork 4.9. Topsoil 18% short, 77% adequate, 5% surplus. Corn 47% planted, 50% 1990, 39% avg. Corn condition 20% fair, 80% good. Soybeans 3% planted, 3% 1990, 3% avg. Peanuts planted 23%, 31% 1990, 11% avg. Cotton 87% planted, 85% 1990, 62% avg. Flue tobacco 14% transplanted, 16% 1990, 6% avg. Fire tobacco 4% transplanted, 2% 1990, 2% avg. Barley 13% fair, 82% good, 5% excellent. Wheat 36% fair, 59% good, and 5% excellent. Some spraying for cereal leaf beetles, powdery mildew in small grains. Apple condition 55% good, 45% excellent. Peach 6% poor, 6% fair, 50% good, 38% excellent. Peaches were thinned. Potatoes nearly all good condition. Alfalfa 2% poor, 9% fair, 67% good, 22% excellent. Other hay 11% fair, 69% good, 20% excellent. Pasture 17% fair, 58% good, and 25% excellent. Harvesting rye silage, hay, shearing sheep, planting, cultivating vegetables, spraying fruit trees.

WASHINGTON: Temperatures 1 to 6° below normal east; 2° above normal to 3° below normal west. Precipitation none to 0.02 in. east; 0.04 to 0.22 in. west.

Days suitable for fieldwork 6.9. Soil moisture 44% very short, 56% short. Range, pasture 17% very poor, 20% poor, 62% fair, 1%

good. Hay, other roughage 20% short, 80% adequate. Winter wheat 18% very poor, 40% poor, 22% fair, 20% good. Winter barley 46% poor, 35% fair, 19% good. Potatoes planted 82%; emerged 40%. Spring wheat emerged 83%. Spring barley planted 98%; emerged 64%. Dry peas planted 85%. Potato planting was nearly completed in Franklin County. Spring wheat planting continued in Adams, Lincoln, Spokane Counties. Winter wheat in Douglas County was beginning to show moisture stress. Wind was prevalent in Eastern Washington. Benton County hop growers have started stringing hop yards. Cold weather delayed first cutting of alfalfa hay. Fruit trees were past full bloom in Yakima and Chelan Counties. Winter injury to fruit trees starting to show. Blueberries and strawberries were in full bloom. Vegetable crops continued to be planted. Cool weather was holding soil temperatures below normal. Northeastern ranges were developing slowly. Calf branding and lambing were nearly completed. Livestock continued to be moved to high ranges.

WEST VIRGINIA: Temperature 63°. Extremes 37°; 88°. Precipitation 0.47 in.

Days suitable for fieldwork 4.7. Soil moisture 14% short, 82% adequate, 4% surplus. Wheat, barley, good. Corn 25% planted, 4% emerged. Oats good, 82% planted, 39% emerged. Gardens, 19% fair, 81% good; 31% planted, 22% emerged. Tobacco good, 87% beds seeded, 58% emerged. Hay 19% fair, 73% good, 8% excellent. Apples and Peaches good. Pastures 10% fair, 79% good, 11% excellent; 95% of normal. Cattle, sheep good. Calving 94% complete. Lambing 96% complete. Hay supplies 71% adequate, 29% surplus. Other feed adequate. Farm activities: General maintenance, calving, lambing, fencing, plowing, seeding tobacco beds, shearing sheep, planting corn.

WISCONSIN: Temperature 47°, 5° below normal. Extremes 23°; 76°. Precipitation 0.7 to 2.9 in. Snow, frost in northern districts during week.

Days suitable for fieldwork 3.0. Soil moisture 1% short, 61% adequate, 38% surplus. Spring tillage 40% complete, 64% 1990, 64% avg. Oats planted 50%, 81% 1990, 78% avg. Corn 9% planted, 18% 1990, 19% avg. Cool soil temperatures are slowing emergence of small grain, preventing progress on plantings.

WYOMING: Temperatures below normal. Precipitation above normal western areas, mostly below normal elsewhere.

Days suitable for fieldwork 4.0. Topsoil 7% short, 85% adequate, 8% surplus. Spring wheat 65% planted, 85% 1990, 70% avg.; 35% emerged, 35% 1990, 30% avg. Oats 55% planted, 65% 1990, 60% avg.; 20% emerged, 35% 1990, 25% avg. Barley 80% planted, 85% 1990, 80% avg.; 55% emerged, 70% 1990, 55% avg. Sugarbeets 85% planted, 85% 1990, 85% avg.; 25% emerged, 30% 1990, 20% avg. Corn 20% planted, 15% 1990, 15% avg.; 0% emerged, 0% 1990. Potatoes 25% planted, 40% 1990, 25% avg.; 15% emerged, small amount 1990. Dry beans 0% planted, small amount 1990. Winter wheat mostly fair to good condition. Livestock mostly good condition. Spring calves born 90%, 90% 1990, 90% avg. Death losses light to normal. Farm flock: Ewes lambed 95%, 95% 1990, 90% avg.; shorn 90%, 95% 1990, 90% avg. Range flock: Ewes lambed 55%, 55% 1990, 55% avg.; shorn 75%, 75% 1990, 70% avg. Death losses light to normal. Ranges, pastures good to excellent.

APRIL 1991

**MONTHLY DATA FROM SELECTED FOREIGN CITIES
CLIMATE ANALYSIS CENTER-NMC-NWS-NOAA**

*** = DATA NOT AVAILABLE

International Weather and Crop Summary

HIGHLIGHTS

April 28 - May 4, 1991

WESTERN USSR ... Widespread rain over the west and south benefits winter grains but slows fieldwork. Dry weather covers the Volga, allowing flood waters to recede.

NORTHWESTERN AFRICA ... Mostly dry weather benefits winter grain maturation and early harvesting.

EUROPE ... Widespread rain covers the continent, but cool weather persists.

EASTERN ASIA ... Beneficial rains continue in Manchuria, with much needed showers along the southern rice areas.

SOUTHEAST ASIA ... Hot, dry weather returns to central Thailand. Rainfall tapers off over the Philippines.

SOUTH AFRICA ... Warm, dry weather favors corn maturation.

SOUTH AMERICA ... Drier weather enables harvesting to progress in southern Brazil, while heavy rains delay harvesting in Argentina.

AUSTRALIA ... Rainfall is needed in the Queensland and New South Wales wheat areas for adequate planting moisture.

COUNTRY	CITY	TEMPERATURE (C)					PRECIPITATION (MM)		
		AVG MAX	AVG MIN	HI MAX	LO MIN	AVG	F/NRM	DPART	F/NRM
NORWAY	OSLO	9	0	14	-7	4	1.6	27	-22
SWEDEN	STOCKHOLM	10	1	18	-6	6	1.3	16	-15
FINLND	HELSINKI	9	-1	17	-5	4	1.3	24	-17
U KING	GLASGOW	12	4	18	-4	8	-0.4	112	49
	EDINBURGH	12	4	16	-3	8	0.4	37	-2
	BIRMINGHAM	12	4	18	-2	8	0.1	69	25
	LONDON	13	4	20	-3	8	0.3	62	6
IRELND	DUBLIN	12	6	29	0	9	0.6	91	44
ICELND	REYKJAVIK	4	-1	9	-8	1	-2.1	45	-12
DENMRK	COPENHAGEN	10	3	18	-4	7	0.1	12	-26
LUXEMB	LUXEMBOURG	13	3	20	-5	8	-0.2	43	-6
SWITZL	ZURICH	13	3	19	-2	8	-0.1	62	-30
	GENEVA	14	3	21	-3	9	-0.4	22	-37
FRANCE	PARIS	15	4	24	-3	9	-0.2	32	-4
	STRASBOURG	15	3	21	-4	9	-0.2	8	-35
	BOURGES	15	4	25	-3	9	-0.7	21	-26
	BORDEAUX	17	6	30	-1	12	0.6	35	-25
	TOULOUSE	16	5	27	-2	11	-0.1	42	-14
	MARSEILLE	18	8	23	1	13	-0.3	36	-6
SPAIN	VALLADOLID	16	3	25	-2	10	-0.4	23	-13
	MADRID	18	5	24	-1	11	-1.1	27	-16
	SEVILLE	23	10	30	6	16	0.2	13	-40
GERMNY	LEIPZIG	12	3	20	-3	8	-0.4	31	-10
	DRESDEN	12	3	19	-4	7	-0.8	32	-14
	HAMBURG	12	3	19	-5	8	0.6	49	2
	BERLIN	13	4	20	-2	8	-0.1	33	-7
	DUSSELDORF	14	5	22	-3	10	-0.2	38	-13
	STUTTGART	13	2	18	-6	8	-1.2	15	-39
	NURNBERG	13	2	19	-6	8	-0.2	30	-13
	MUNICH	12	2	19	-3	7	-0.6	46	-27
AUSTRI	VIENNA	14	4	19	-2	9	-0.9	21	-22
	INNSBRUCK	14	2	21	-2	8	-0.9	29	-37
CZECH	PRAGUE	13	2	21	-6	7	-0.4	24	-14
POLAND	WARSAW	13	3	19	-4	8	0.5	28	-7
	LODZ	13	4	18	-3	8	1.0	26	-24
	KATOWICE	12	2	18	-6	7	-0.3	36	-18
	PRZEMYSL	12	3	17	-2	8	-0.3	33	-15
HUNGAR	BUDAPEST	14	5	20	-1	10	-1.2	39	0
YUGOSL	SARAJEVO	13	3	20	-1	8	-1.4	115	39
ROMANI	BUCHAREST	17	6	21	-1	11	-0.1	50	5
BULGAR	SOFIA	13	5	20	1	9	-1.1	84	37
ITALY	MILAN	16	4	22	-1	10	-1.7	41	-37
	VERONA	16	5	21	0	11	-1.2	77	16
	VENICE	16	8	21	2	12	-0.4	57	-15
	GENOA	17	10	22	-5	13	-1.5	63	-23
	ROME	17	7	21	2	12	-1.4	115	65
	NAPLES	17	8	22	4	12	-0.5	176	102
GREECE	THESSALONIKA	17	9	22	0	13	-1.0	58	21
	LARISSA	17	7	22	3	12	-1.7	90	62
	ATHENS	19	11	22	8	15	-1.4	69	52
TURKEY	ISTANBUL	14	8	26	5	11	0.4	110	72
	ANKARA	15	3	23	-3	9	-2.5	59	33
CYPRUS	LARNACA	23	12	30	8	18	0.8	21	1
USSR	TALLINN	9	1	17	-5	5	1.8	16	-19
	LENINGRAD	9	1	20	-5	5	1.7	51	15
	KAUNAS	12	3	20	-5	7	1.2	35	-4
	MINSK	11	2	18	-4	7	1.2	27	-14
	KAZAN	12	2	20	-7	7	2.9	42	11
	MOSCOW	12	3	18	-3	7	1.7	51	13
	SVERDLOVSK	15	1	27	-10	8	3.6	3	-22
	OMSK	13	1	25	-10	7	4.5	6	-14
	KUSTANAY	16	3	29	-5	9	4.4	6	-15
	KRASNOYARSK	7	-2	18	-9	3	1.3	28	2
	NOVOSIBIRSK	10	0	22	-9	5	5.8	11	-1
	BARNAUL	9	0	20	-7	5	2.0	11	-16
	KHABAROVSK	10	-1	19	-8	5	1.1	31	-7
	VLADIVOSTOK	10	2	19	-4	6	1.6	29	-34
	KIEV	13	6	22	2	10	1.1	18	-22
	LVOV	12	3	17	-3	8	0.1	38	-11
	KIROVOGRAD	15	5	22	-2	10	1.5	45	13

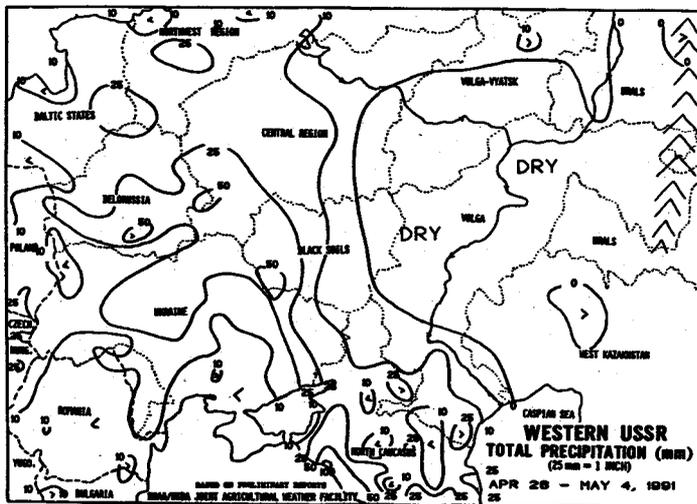
Based on Preliminary Reports

APRIL 1991

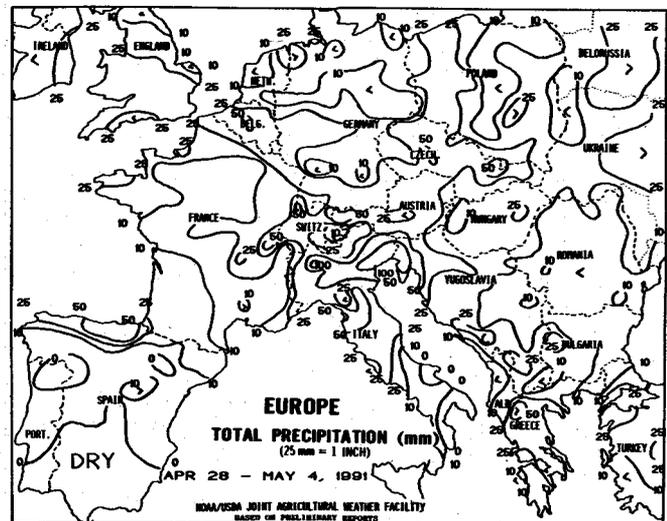
COUNTRY	CITY	TEMPERATURE (C)					PRECIPITATION (MM)		
		AVG MAX	AVG MIN	HI	LO	DPART	F/NRM	TOTAL	DPART
USSR	ODESSA	12	7	18	1	10	0.8	33	2
	YALTA	13	8	19	3	11	0.3	53	21
	VORONEZH	14	4	21	-3	9	1.5	23	-13
	SARATOV	14	4	21	-2	9	2.1	57	30
	KHARKOV	14	5	21	-1	10	1.1	3	-27
	VOLGOGRAD	16	6	23	-1	11	2.0	45	22
	ROSTOV	16	6	24	-2	11	0.5	29	-10
	ASTRAKHAN	17	8	26	2	13	1.8	26	11
	KRASNODAR	17	7	26	2	12	0.4	34	-19
	ORENBURG	17	4	28	-4	11	3.6	3	-20
	TSELINGRAD	13	2	24	-9	7	4.1	11	-3
	KARAGANDA	12	1	24	-7	6	1.5	7	-16
	TBILLISI	20	9	26	6	14	1.9	20	-32
	TASHKENT	23	10	30	3	17	1.4	55	-5
	ASHKHABAD	25	12	36	1	19	1.9	3	-40
SYRIA	DAMASCUS	26	9	33	1	17	1.1	4	-9
ISRAEL	JERUSALEM	23	12	38	4	17	1.3	11	-18
PAKIST	KARACHI	34	24	38	19	29	0.2	0	-2
INDIA	AMRITSAR	32	15	39	10	24	-1.7	37	25
	NEW DELHI	35	20	40	17	28	-1.2	2	-5
	AHMEDABAD	39	25	43	20	32	0.7	0	0
	INDORE	38	21	43	16	29	-0.4	0	-2
	CALCUTTA	36	25	38	19	31	-0.3	1	-34
	VERAVAL	32	21	41	17	27	-0.4	0	0
	BOMBAY	33	25	37	23	29	0.7	0	0
	POONA	37	20	40	16	28	-1.2	0	-16
	BEGAMPET	38	26	41	21	32	0.9	13	-8
	MADRAS	37	27	43	25	32	0.9	0	-15
	MANGALORE	34	25	36	21	30	0.4	0	-40
H KONG	HONG KONG	26	21	30	12	23	1.2	35	-104
N KREA	PYONGYANG	17	2	22	-9	10	1.3	34	-28
S KREA	SEOUL	19	8	26	-3	13	2.9	50	-18
JAPAN	SAPORO	12	5	22	-2	8	2.2	79	12
	NAGOYA	21	11	25	2	16	2.3	108	-47
	TOKYO	19	12	25	5	16	1.7	115	-11
	YOKOHAMA	19	12	24	4	15	1.7	123	-20
	KYOTO	21	11	27	1	16	3.4	165	24
	OSAKA	21	12	28	3	17	2.2	151	3
THAIIN	PHETCHABUN	38	25	41	21	32	1.0	35	-33
	BANGKOK	35	27	38	22	31	0.7	49	-15
MALAYS	KUALA LUMPUR	33	24	35	22	29	1.7	330	52
VIETNM	HANOI	26	22	31	15	24	-0.1	133	51
CHINA	HARBIN	13	1	23	-8	7	1.5	54	30
	HAMI	21	5	28	-2	13	0.4	0	-2
	LANCHOW	17	6	26	-1	12	-0.2	23	5
	BEIJING	19	8	25	-2	14	0.5	19	0
	TIENTSIIN	20	9	26	1	14	0.9	46	25
	LHASA	16	2	21	-2	9	1.3	9	5
	KUNMING	23	11	29	3	17	1.1	27	6
	CHENGCHOW	20	8	28	-1	14	-0.5	27	-27
	YEHCHANG	20	12	28	6	16	-0.5	93	-12
	HANKOW	19	12	26	4	16	-0.2	172	32
	CHIHKIANG	19	12	26	8	15	-0.9	119	-50
	SHANGHAI	17	10	26	2	13	-0.6	69	-35
	NANCHANG	20	14	28	7	17	-0.1	259	34
	TAIPEI	26	20	34	10	23	2.3	124	-44
	CANTON	27	20	32	11	23	1.3	64	-115
	NANNING	28	20	35	10	24	2.0	21	-69
CNRY I	LAS PALMAS	21	16	23	13	19	0.0	3	-4
MOROCC	CASABLANCA	19	12	22	7	16	-0.2	21	-17
	MARRAKECH	23	11	36	8	17	0.5	73	39
ALGERI	ALGER	19	7	26	2	13	-1.4	26	-56
	BATNA	16	7	26	-1	12	0.3	26	-2
TUNISI	TUNIS	19	9	24	1	14	-1.2	51	3
NIGER	NIAMEY	41	29	45	24	35	1.0	3	-3
MALI	TIMBUKTU	40	24	45	17	32	0.8	0	-1
	BAMAKO	39	27	42	22	33	1.7	45	28
MAURIT	NOUAKHOTT	34	19	42	15	26	1.1	0	0
SENEGL	DAKAR	24	18	32	17	21	-0.3	0	0
CHAG A	DIEGO GARCIA	31	27	32	24	29	0.9	121	-61
LIBYA	TRIPOLI	23	12	35	6	17	-1.1	20	1
	BENGHAZI	23	14	36	8	18	-0.6	13	6
EGYPT	CAIRO	29	17	40	12	23	1.8	3	2
	ASWAN	37	23	45	16	30	2.8	0	0
ETHIOP	ADDIS ABABA	25	12	28	9	19	0.3	39	-45
KENYA	NAIROBI	26	14	28	11	20	0.1	46	-111

COUNTRY	CITY	TEMPERATURE (C)					PRECIPITATION (MM)		
		AVG MAX	AVG MIN	HI	LO	DPART	F/NRM	TOTAL	DPART
TANZAN	DAR ES SALAAM	32	22	35	20	27	0.9	12	-258
B FASO	OUAGADOUGOU	39	27	43	20	33	0.8	59	37
IVRY C	ABIDJAN	31	25	32	20	28	-0.2	164	1
MOZAMB	MAPUTO	29	19	38	16	24	1.1	6	-53
ZAMBIA	KAWE	25	14	29	10	19	-0.4	1	-22
ZIMBAB	HARARE	25	13	28	9	19	0.4	0	-46
S AFRI	PRETORIA	25	12	30	7	19	1.3	0	-58
	KROONSTAD	25	8	28	2	16	0.1	3	-50
	JOHANNESBURG	23	8	28	2	15	0.3	3	-55
	BETHAL	23	5	26	0	14	-1.5	0	-46
	DURBAN	28	18	33	14	23	1.7	3	-83
	CAPE TOWN	24	12	31	6	18	1.4	25	-20
CANADA	TORONTO	14	4	28	-4	9	2.5	116	46
	MONTREAL	13	3	22	-4	8	2.2	123	48
	WINNIPEG	14	1	26	-8	7	3.8	80	41
	REGINA	14	1	26	-6	7	3.8	54	30
	SASKATOON	12	0	21	-4	6	3.1	70	49
	LETHBRIDGE	14	0	22	-7	7	1.9	20	-23
	CALGARY	13	-2	21	-7	6	2.3	7	-25
	EDMONTON	13	1	22	-3	7	2.9	45	23
	VANCOUVER	13	5	17	0	9	0.0	111	51
MEXICO	GUADALAJARA	31	14	38	7	23	0.8	0	-8
	MEXICO CITY	27	16	29	9	21	3.5	5	-8
	ACAPULCO	31	23	34	20	27	-0.2	0	-5
BERMUD	ST. GEORGES	23	19	26	15	21	2.3	63	-18
BAHAMA	NASSAU	29	22	33	18	26	2.0	42	-12
JAMAIC	KINGSTON	31	24	33	22	28	0.6	19	-19
P RICO	SAN JUAN	30	23	33	21	26	0.3	45	-46
GUADEL	RAIZET	30	22	32	19	26	0.9	44	-14
BARBAD	BRIDGETOWN	29	24	30	22	27	0.2	70	24
TRINID	PORT OF SPAIN	31	23	33	20	27	0.9	38	-13
COLOMB	BOGOTA	19	9	22	1	14	0.7	52	-41
VENEZU	CARACAS	30	23	33	21	27	1.0	4	-19
F GUIA	CAYENNE	30	25	31	22	28	1.6	123	-307
BRAZIL	FORTALEZA	30	24	32	22	27	0.1	323	-35
	RECIFE	30	23	32	20	27	0.3	272	-9
	BELO HORIZONTE	27	19	31	14	23	1.3	83	18
	CAMPO GRANDE	29	19	32	13	24	2.2	106	5
	FRANCA	27	19	29	11	23	3.0	90	9
	RIO DE JANEIRO	27	22	35	20	25	0.6	97	-17
	LONDRINA	28	17	32	12	22	1.4	63	-37
	SANTA MARIA	24	15	30	5	20	0.9	330	188
	PORTO ALEGRE	25	15	33	4	20	0.2	213	110
PERU	LIMA	25	18	27	17	21	1.0	0	-1
BOLIVI	LA PAZ	14	2	18	0	8	-0.9	11	-18
CHILE	SANTIAGO	24	8	31	2	16	1.7	1	-12
ARGENT	IGUAZU	28	17	33	7	23	***	74	***
	FORMOSA	29	18	34	6	23	2.0	64	-73
	CERES	25	14	30	4	20	0.8	113	41
	CORDOBA	24	13	31	6	19	1.8	44	-3
	RIO CUARTO	23	13	26	4	18	1.6	24	-27
	ROSARIO	23	12	28	3	18	1.1	304	219
	BUENOS AIRES	23	11	28	3	17	1.2	66	-21
	SANTA ROSA	23	11	29	1	17	2.2	21	-31
	TRES ARROYOS	21	10	26	4	15	1.6	31	-33
MIDW I	MIDWAY ISLAND	24	19	26	17	22	2.0	23	-38
N CALD	NOUMEA	26	21	28	19	24	0.1	125	10
FLJIJ	NAUSORI	29	23	32	21	26	0.4	287	-52
SAMOA	PAGO PAGO	31	25	34	19	28	1.2	244	-48
TAHITI	PAPEETE	32	24	35	20	28	1.1	129	16
N ZEAL	AUCKLAND	19	13	25	9	16	-0.4	162	51
PA N G	PORT MORESBY	31	24	32	23	27	0.5	90	-28
AUSTRL	DARWIN	32	24	33	23	28	-0.2	78	-20
	MOREE	26	12	30	5	19	-0.9	0	-24
	BRISBANE	26	16	29	13	21	-1.0	2	-70
	PERTH	26	15	34	10	21	1.9	29	-19
	CEDUNA	24	11	37	5	17	-0.2	32	10
	ADELAIDE	22	12	33	8	17	-0.4	28	-18
	MELBOURNE	19	8	28	4	14	-1.7	23	-29
	WAGGA	22	8	28	2	15	-0.3	7	-43
	CANBERRA	20	6	27	-1	13	0.0	16	-30
PHILIP	MANILA	34	25	38	21	29	0.4	2	-14

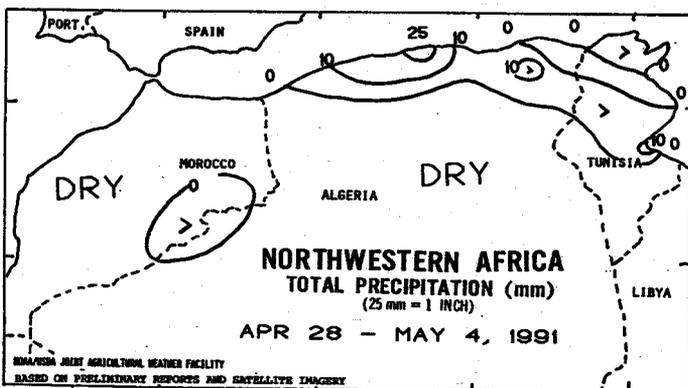
Based on Preliminary Reports



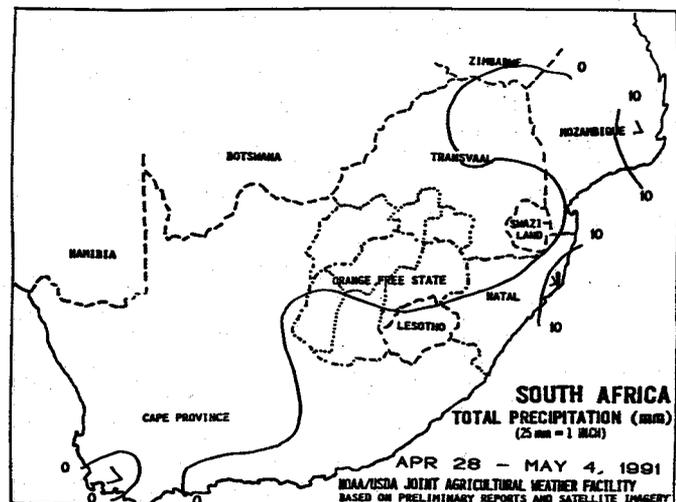
WESTERN USSR ... Widespread, significant rain covered crop areas in the west and south. Greatest rainfall (25-50mm) soaked areas in southern Belorussia, the southwestern portion of the Central Region, the northern Ukraine, and the western North Caucasus. Although the rain benefited winter grains in the vegetative stage, some delays in spring grain planting likely occurred. Dry weather over the Volga and Volga Vyatsk Regions helped to condition soils for spring fieldwork. The dry weather that covered the Volga was especially welcomed, allowing floodwaters from melting snow and last week's wet weather to recede. Weekly average temperatures over the region were 1-3 degrees Celsius (C) above normal.



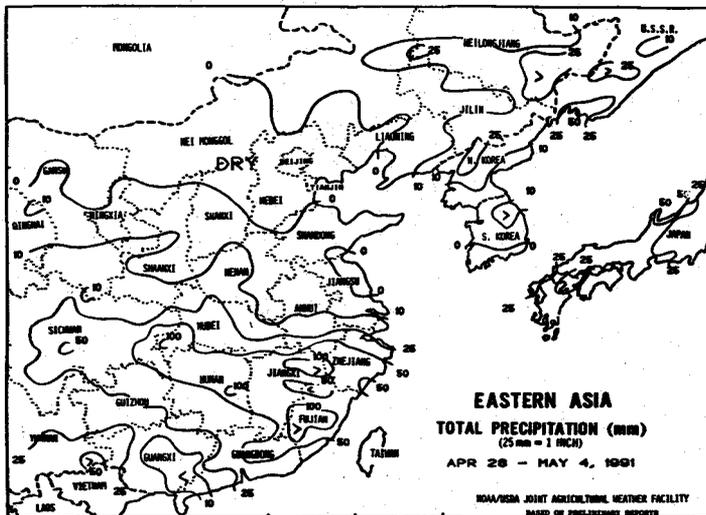
EUROPE ... Locally heavy rain (100-171mm) soaked the Alpine region of far northern Italy and extreme northwestern Yugoslavia. Significant rainfall (25-50mm or more) covered Italy's Po Valley through western Poland, and southern Germany through southern England. Widespread light rain fell over the remainder of the continent, except over the Iberian peninsula where dry weather prevailed in the south. The moisture generally favored establishment of spring-sown grains and oilseeds and promoted winter grain development. Cool weather persisted over the region, however, slowing the growth of newly sown crops. Weekly average temperatures were not as low as the previous week, generally ranging from 1 to 3 degrees C below normal. Weekly temperatures averaged 3-5 degrees C below normal in France and Germany. Minimum temperatures fell below freezing (-1 to -2 degrees C) in northern France, Belgium, Germany, and scattered locations throughout the remainder of the region.



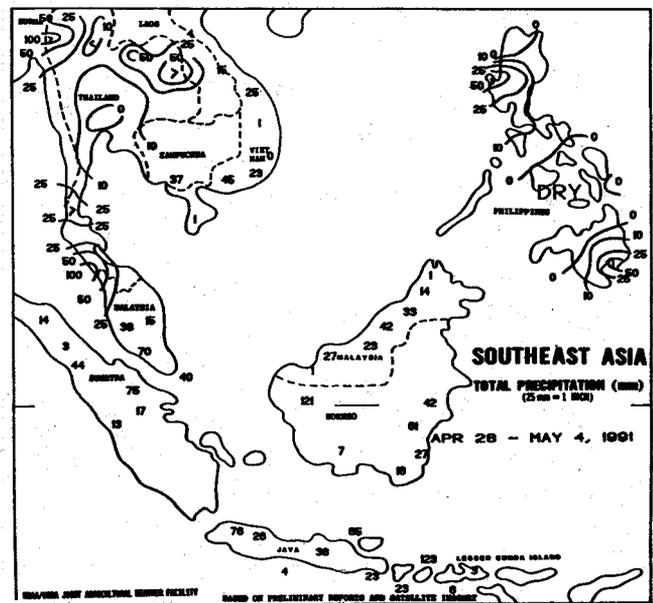
NORTHWESTERN AFRICA ... Winter grains were maturing over the region. Mostly dry weather covered winter grain areas in Morocco and Tunisia, benefiting winter grain maturation and early harvesting. Light showers (around 10mm) over Algeria benefited immature crops. Winter grain harvesting usually begins in May and extends through July.



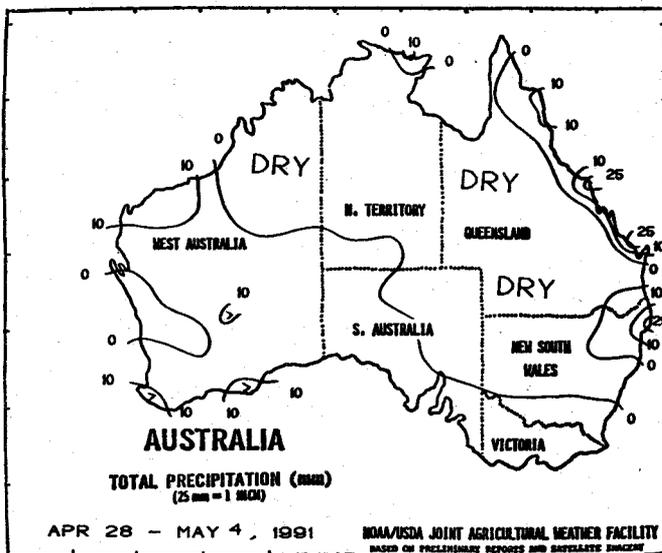
SOUTH AFRICA ... Dry, warmer-than-normal weather maintained favorable conditions for corn maturation across the Maize Triangle and most crop regions of the eastern Cape Province and Natal. Daytime highs continued to average in the midtwenties C, favoring drydown of mature crops and, in the western Triangle, continued growth of late-planted crops. This is the final South Africa summary for the season. Coverage will resume in October, coinciding with the usual beginning of corn planting.



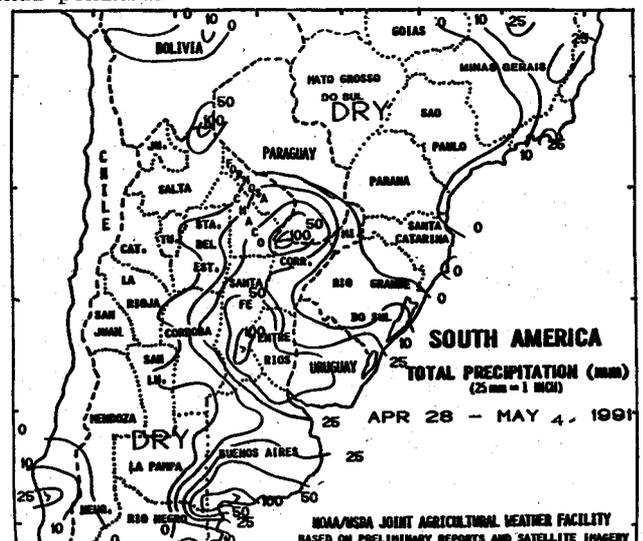
EASTERN ASIA ... Spring wheat areas in Manchuria received additional rains (4-40mm) to further boost topsoil moisture reserves for the upcoming planting season. The North China Plain winter wheat region benefited from light rains (1-9mm). Moderate to heavy showers fell across the Yangtze Valley (20-88mm), with locally heavy rains (109-131mm), hail, and strong winds in parts of eastern Jiangxi. Temperatures returned to normal, with beneficial moderate to heavy rains (32-125mm) in the southern rice areas, which aided vegetative crops. However, most of Guangxi could still use additional moisture as the province received only light to isolated moderate rainfall (4-33mm).



SOUTHEAST ASIA ... Following last week's beneficial rainfall, hot, mostly dry weather returned to rice and corn areas of central Thailand, promoting high evaporative losses. Scattered showers (10-61mm) fell over rice areas of northern and eastern Thailand, but temperatures averaging 1-3 degrees C above normal maintained high moisture losses. A return to seasonably wetter and milder weather is critical the next few weeks for grain planting and establishment. In the Philippines, drier weather returned to most southern grain areas, promoting planting following last week's tropical storm passage. Beneficial showers (15-75mm) fell over Luzon's southwestern coast, but in most northern rice and corn areas, more rain is needed for main season planting. To the south, mostly moderate showers (10-50mm or more) continued over crop regions of Malaysia, Indonesia, and the southern Thai peninsula.



AUSTRALIA ... Topsoil moisture may be limited for winter wheat planting in Queensland and New South Wales as dry conditions continued. Winter wheat planting should just be beginning throughout the country. Rainfall is needed to ensure favorable topsoil moisture for adequate germination of the crop. The dry weather was helpful for eastern summer crop harvesting, which should be nearing completion. The western winter wheat regions received light rain (3-14mm), which should keep topsoils moist.



SOUTH AMERICA ... Drier weather throughout southern Brazil enabled harvesting to progress after a couple weeks of heavy rains. Light to moderate rains (14-42mm) fell in eastern Minas Gerais. In Argentina, moderate to heavy showers (30-159mm) fell from southern Santa Fe northeastward into southern Paraguay, which delayed summer crop harvesting. Topsoil moisture increased for winter wheat planting as thunderstorms brought heavy rains (40-163mm) to southern Buenos Aires.

THE BANGLADESH CYCLONE

The tropical cyclone that devastated southeastern Bangladesh during the early morning hours of April 30 will go down in history as one of the deadliest storms ever. With media reports placing the death toll in the 125,000 to 200,000 range, this storm could rank among the top storms of all time in number of fatalities not only in South Asia but worldwide (table 1). The system developed in the southern Bay of Bengal about April 25 and rapidly grew in strength as it moved northward (fig. 1). When the eye made landfall at about 0000 Greenwich mean time on the 30th, estimated sustained winds reached 140 to 150 mph with higher gusts. The resulting 20-foot tidal wave inundated offshore islands south of the port city of Chittagong and reportedly carried ocean water miles inland. High winds and heavy rains added to the devastation. Bangladesh government sources have estimated the property damage at \$1.4 billion. Additional deaths and damage also took place in Burma and India.

Though the storm certainly destroyed or damaged considerable rice grown near the storm's track, the national crop outlook may not be as negative as the press reports indicate at this time. Bangladesh harvests three rice crops: the aus crop, planted March-May, which typically is about 15 percent of the national crop; the aman crop, planted during the summer monsoon season, 50 percent of the total; and boro rice, the winter crop, which is mainly harvested April-May, 35 percent of the rice total. The cyclone affected aus rice and boro rice mainly grown in the southeastern parts of the country. The worst hit district--Chittagong--normally produces only 5 percent of the boro crop and 3 percent of the aus crop (milled production, Bangladesh Bureau of Statistics). Boro and aus production from all the affected coastal districts is 10 and 18 percent of the national totals, respectively. Given that boro and aus grown in the north of the country should have sustained minimal storm damage and the country's most important rice crop (aman) has not yet been planted, the cyclone's impact on national food production will not be catastrophic.

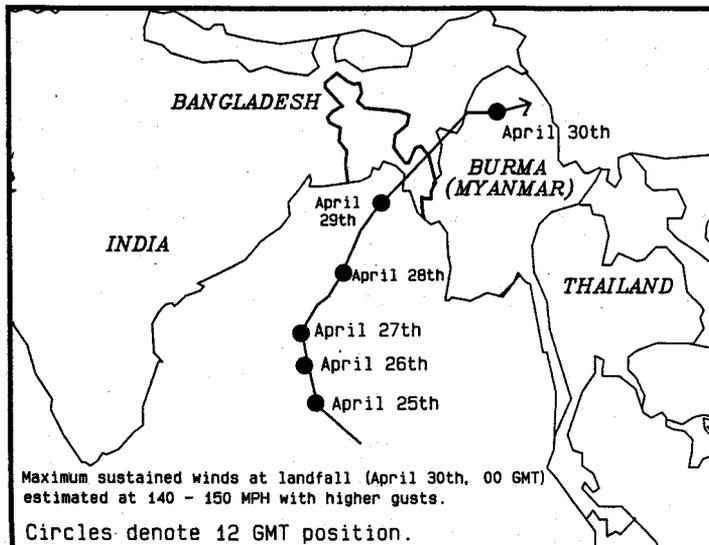
Douglas Le Comte

Table 1

Historic Global Cyclones

Date	Location	Fatalities
Nov. 12-13, 1970	Bangladesh	200,000 - 500,000
Oct. 7, 1737	India (Calcutta area)	300,000
1881	Vietnam (Haiphong)	300,000
June 6, 1882	India (Bombay area)	100,000
1876	Bangladesh	100,000
Oct. 5, 1864	India (Calcutta area)	50,000 - 70,000
Oct. 16, 1942	India (Bengal)	40,000
June 1-2, 1965	Bangladesh	30,000
Oct. 10-12, 1780	Caribbean	20,000 - 30,000
May 28-29, 1963	Bangladesh	22,000

Figure 1



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(Continued from front cover)

first round of storminess shifted into the **Northeast**, producing thunderstorm wind gusts of up to 85 mph in **New York State**. During the respite between two storms, cold air settled over the **Great Plains** at midweek. Wednesday minimums dropped to 27° F in **Dalhart, TX**, 27° F in **Goodland, KS**, and 21° F in **Sidney, NE**. Toward the end of the week, a new storm spread snow from **Utah** to the **Dakotas**. Despite the calendar date (May 3), **Rapid City, SD**, reported a 5-inch snow cover. Strong thunderstorms erupted throughout the **Great Plains**. One band of heavy rain stretched from **southwestern Nebraska** to the **Red River Valley**. Another reached from **north-central Texas** to **northern Louisiana**. The inundation continued in **Shreveport, LA**. After a record-setting April rainfall, an additional 4.5 inches soaked the city during the first 4 days of May. Late-week rain caused localized flooding from **north-central Texas** to **Mississippi**. At week's end, heavy rainfall was noted in the **western Corn Belt** and in portions of the **Southeast**.

(Continued from p. 14)

celery among the volume leaders. Asparagus harvest was active, and heavy supplies of broccoli and cauliflower were reported in California. California lettuce harvest continued in the central coast region, with moderate supplies and small head size reported. Texas' Rio Grande Valley onion harvest began to wind down with good yields reported. Onion, lettuce, and strawberry harvests remained active in the San Antonio-Winter Garden region of Texas. Vegetable harvests, including cauliflower, green beans, and lettuce, continued in Arizona. Early-spring vegetable harvest picked up in New Jersey, and summer vegetable planting increased. Vegetable planting continued in Washington and Michigan. New Mexico chili condition rated poor to good.

PASTURES AND LIVESTOCK: Hay and roughage supplies remained generally adequate across the Nation. Forage production showed seasonal increase, and harvests of grain hays and forage were underway in the warmer climate zones. Supplemental feeding increased, however, in the Texas Plains as dryness limited forage production. Calving and lambing was nearly complete throughout the West. Shearing and branding continued. Alaskan livestock was reported in good shape coming out of winter.

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