

WEEKLY WEATHER AND CROP BULLETIN

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

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

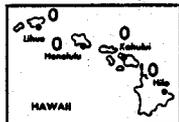
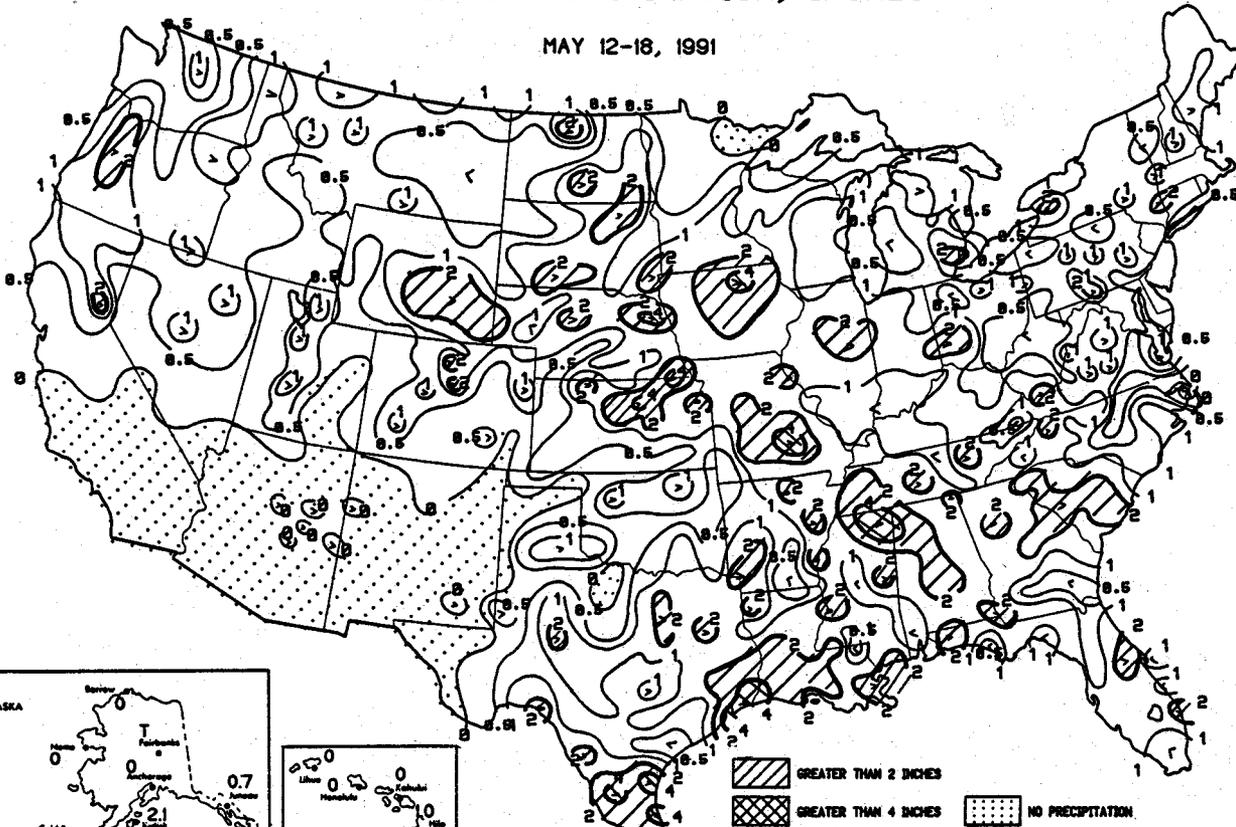
Volume 78, No. 20

Washington, D.C.

May 21, 1991

TOTAL PRECIPITATION, INCHES

MAY 12-18, 1991



NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY

Based on preliminary reports

HIGHLIGHTS

May 12 - 18, 1991

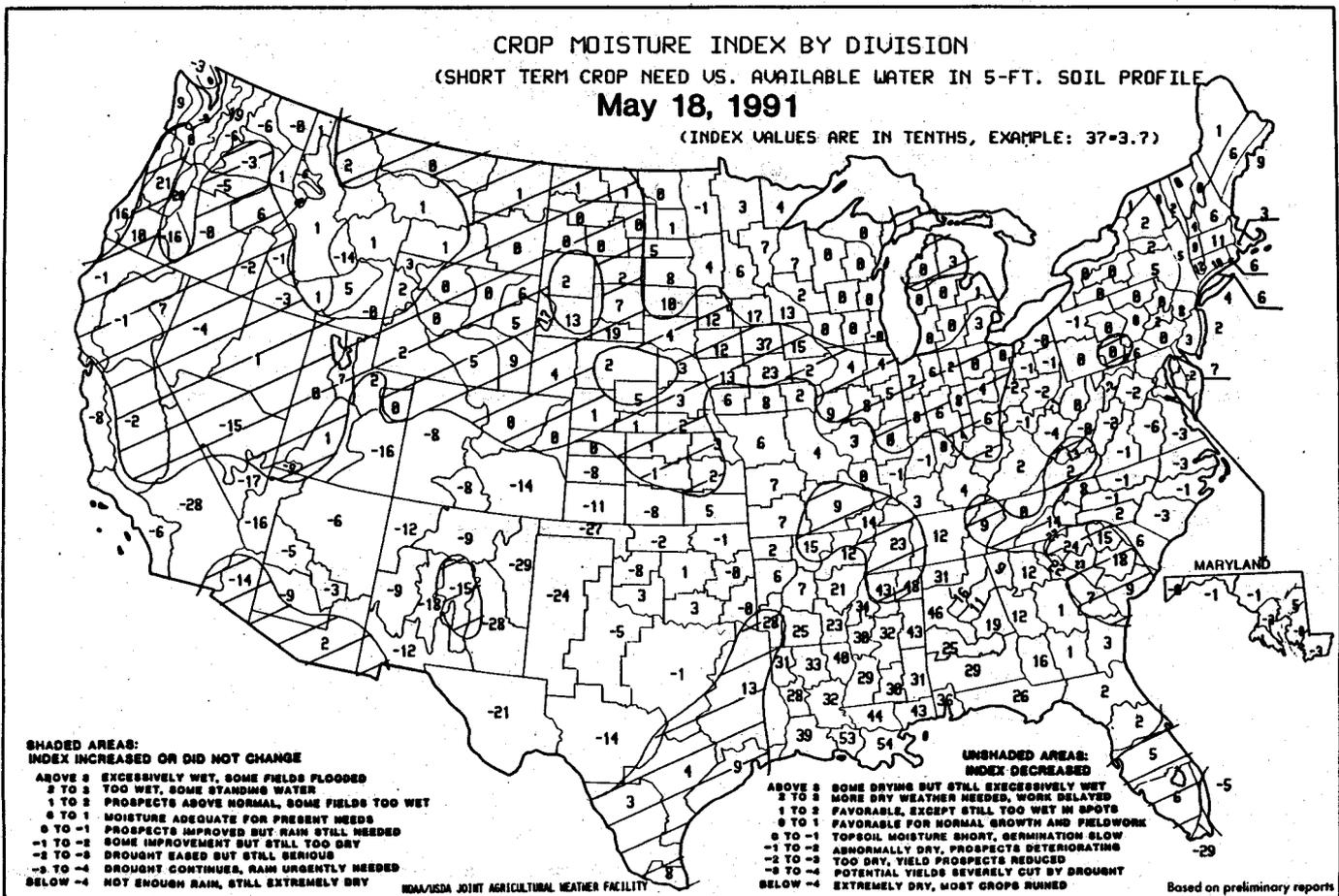
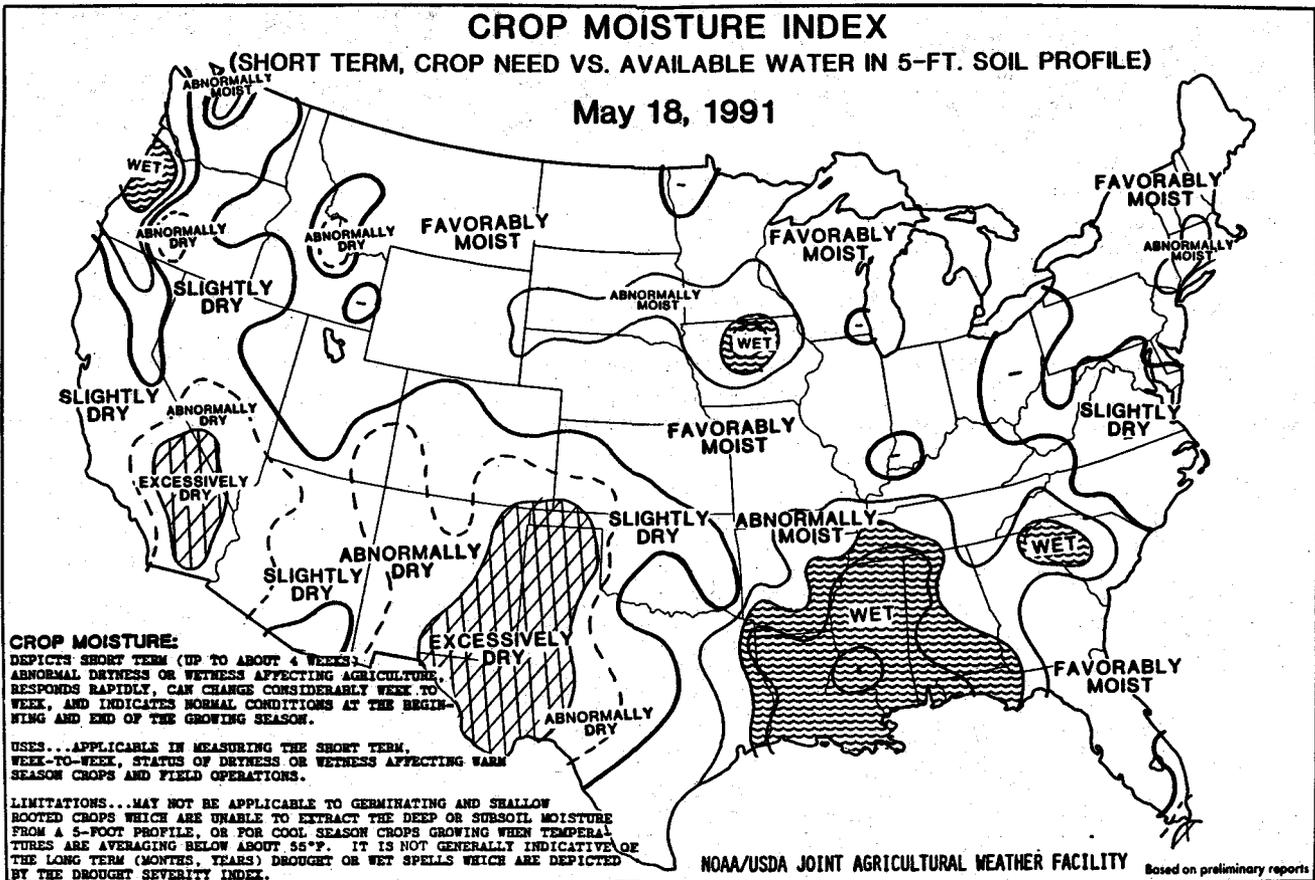
A series of disturbances dove from the **Pacific Northwest** to the **central Plains**, but were subsequently stonewalled by a stagnant high pressure ridge in the **East**. Warm, humid air under the ridge fueled thunderstorms and more than 80 record highs. Combatant airmasses in the **Plains** ignited evening storms. At least 100 tornadoes were spotted in the **Plains** and **western Corn Belt**, including 27 in **Kansas** on Thursday. Frequent gusty winds raised dust in the **Southwest**. Early in the week, slow-moving thunderstorms dumped scattered heavy rain from **Missouri** to **Florida**. Another batch of convection lifted from **southern Texas** to **Louisiana**. Flooding threatened portions of the **lower Mississippi Valley** and **southern Texas** as rainfall exceeded 4 inches in some areas. A Pacific storm spread a significant swath of precipitation from **northern California** to the **western Corn Belt**.

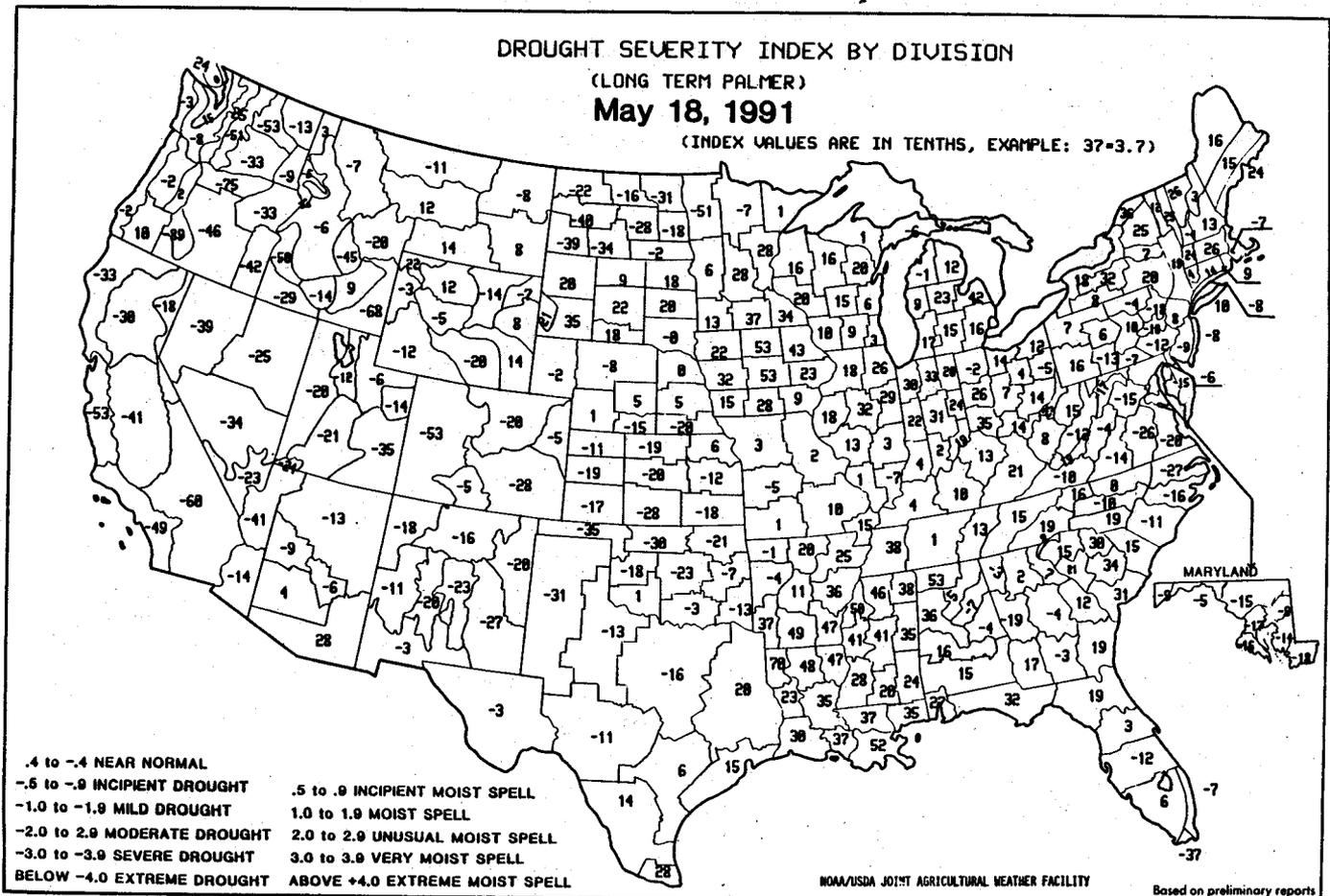
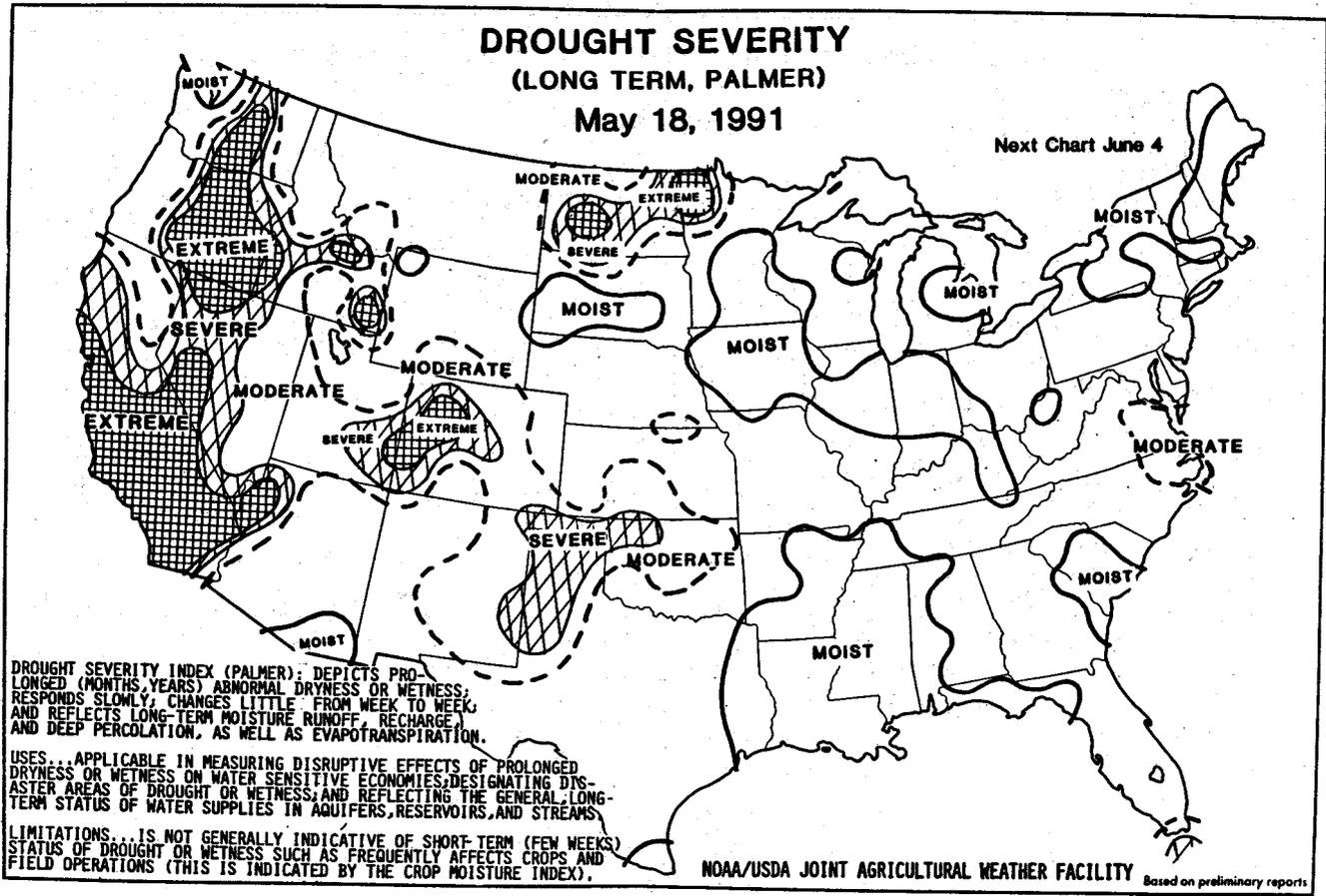
(Continued to back cover)

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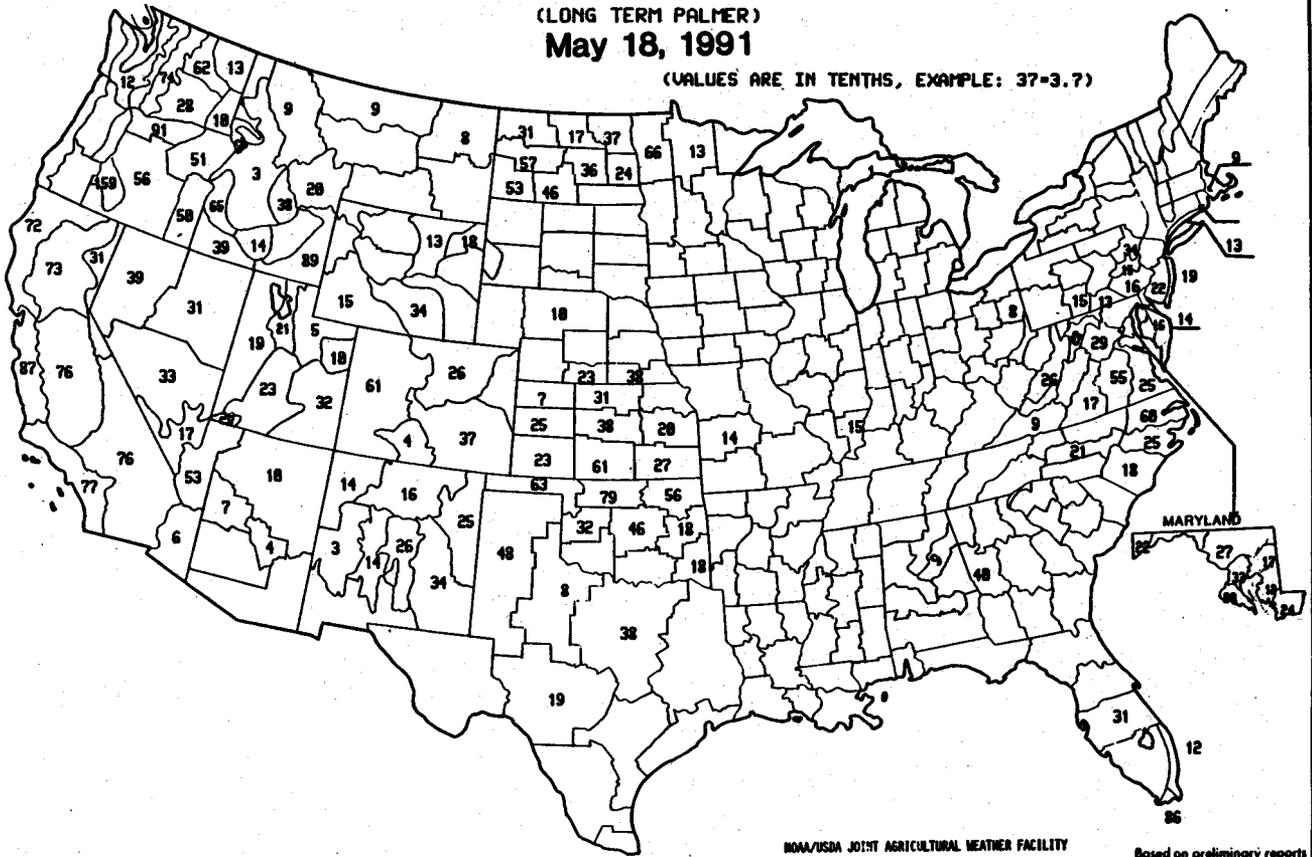


ADDITIONAL PRECIPITATION NEEDED TO BRING INDEX NEAR ZERO

(LONG TERM PALMER)

May 18, 1991

(VALUES ARE IN TENTHS, EXAMPLE: 37-3.7)

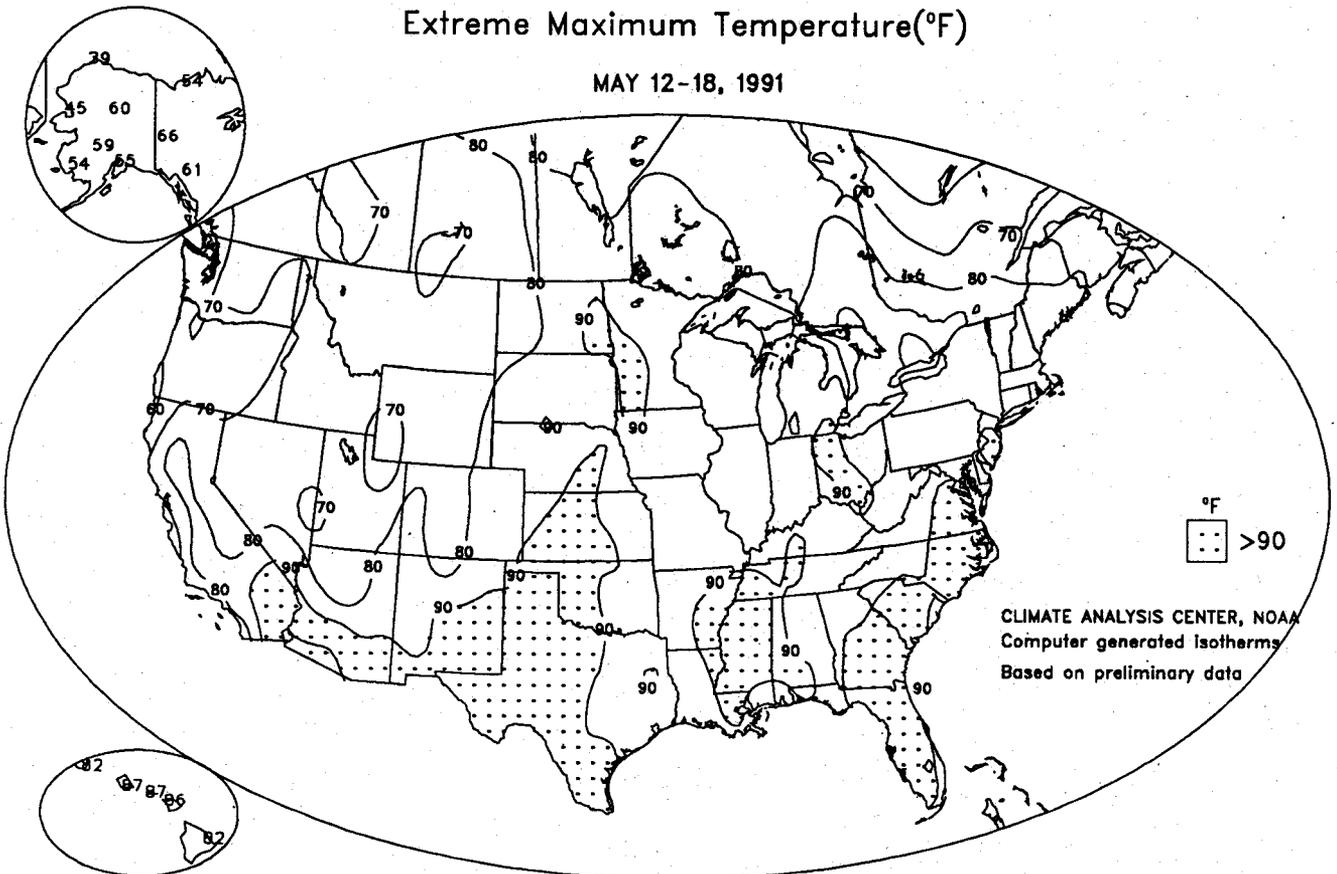


NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY

Based on preliminary reports

Extreme Maximum Temperature(°F)

MAY 12-18, 1991

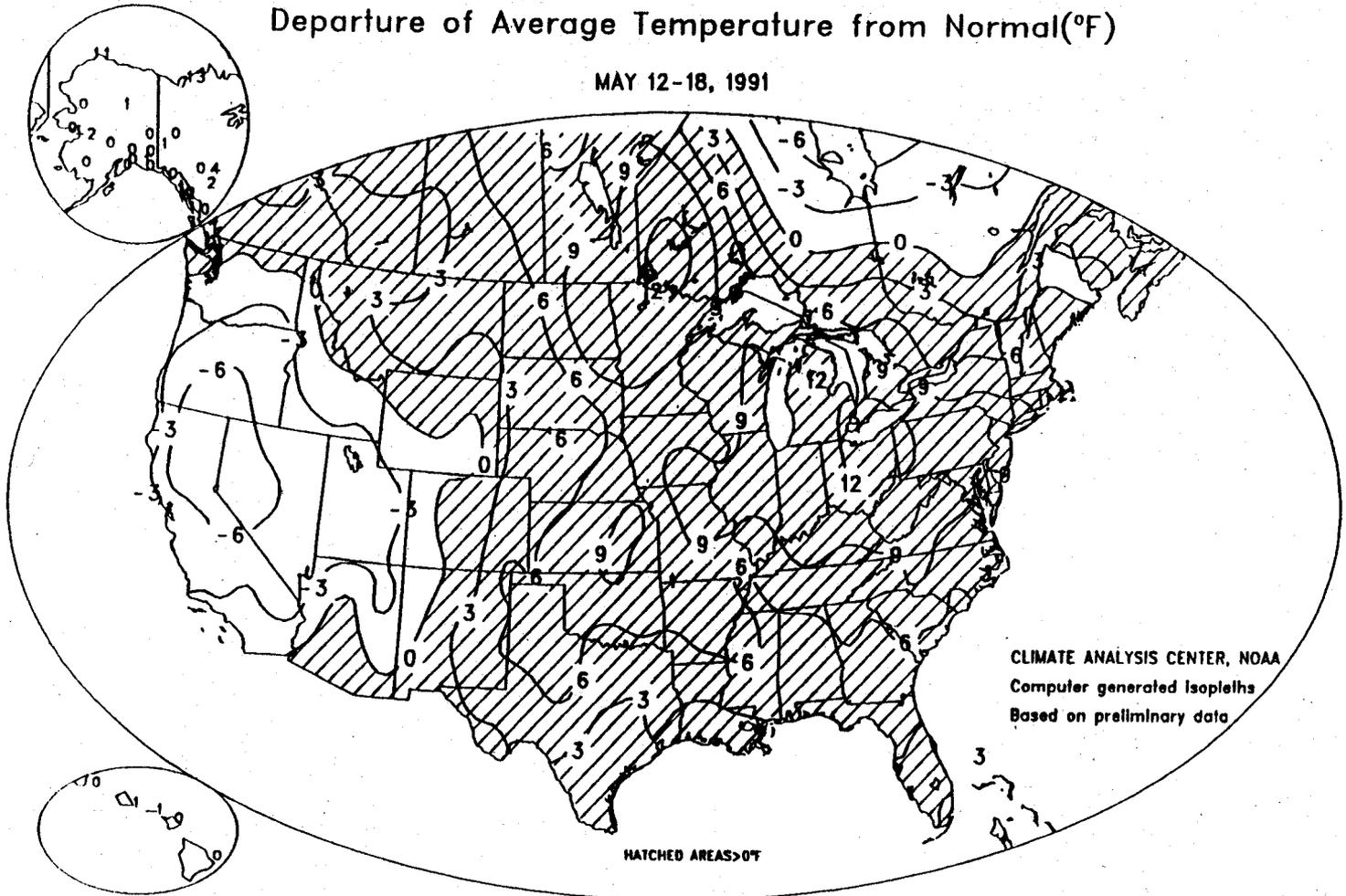


°F
[Dotted Box] >90

CLIMATE ANALYSIS CENTER, NOAA
Computer generated isotherms
Based on preliminary data

Departure of Average Temperature from Normal(°F)

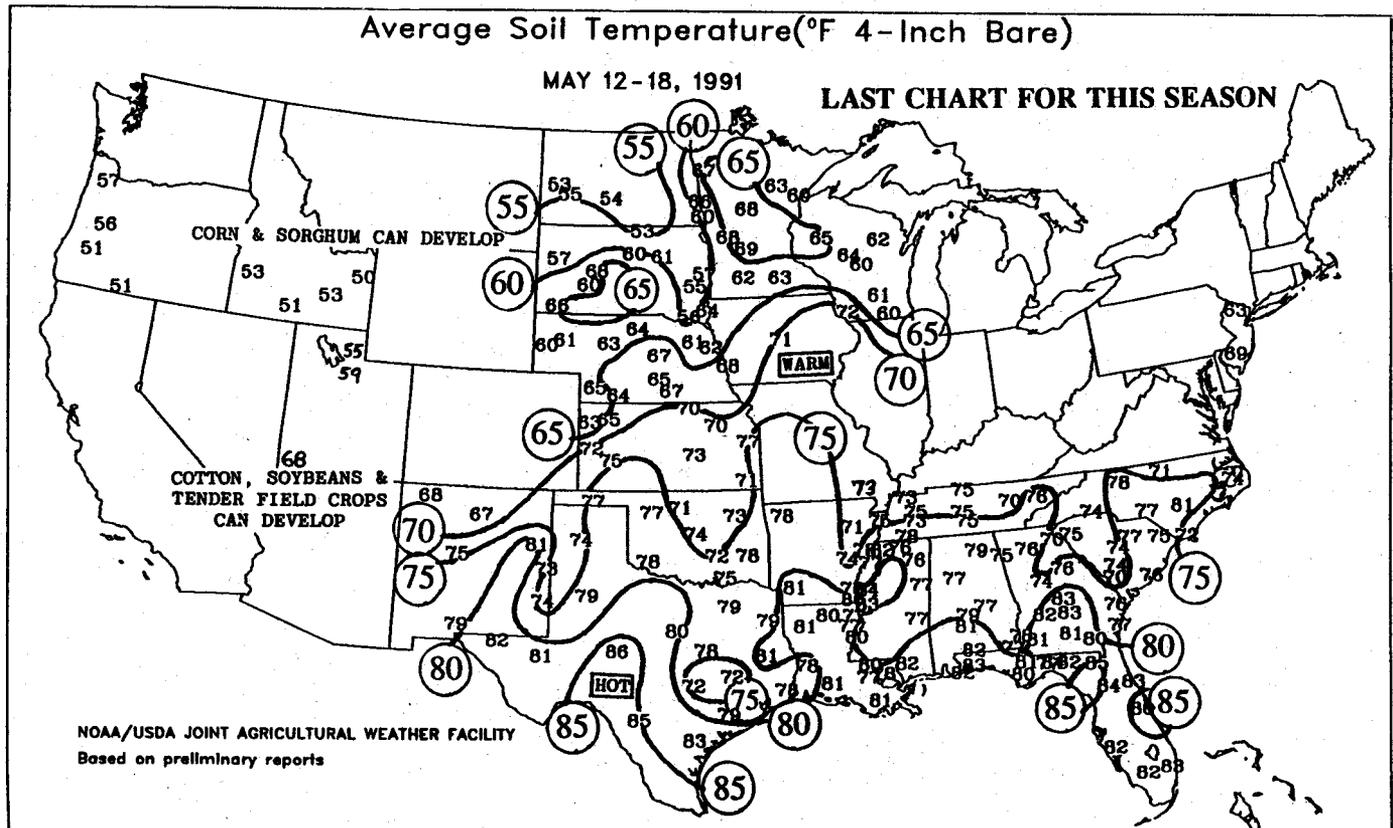
MAY 12-18, 1991

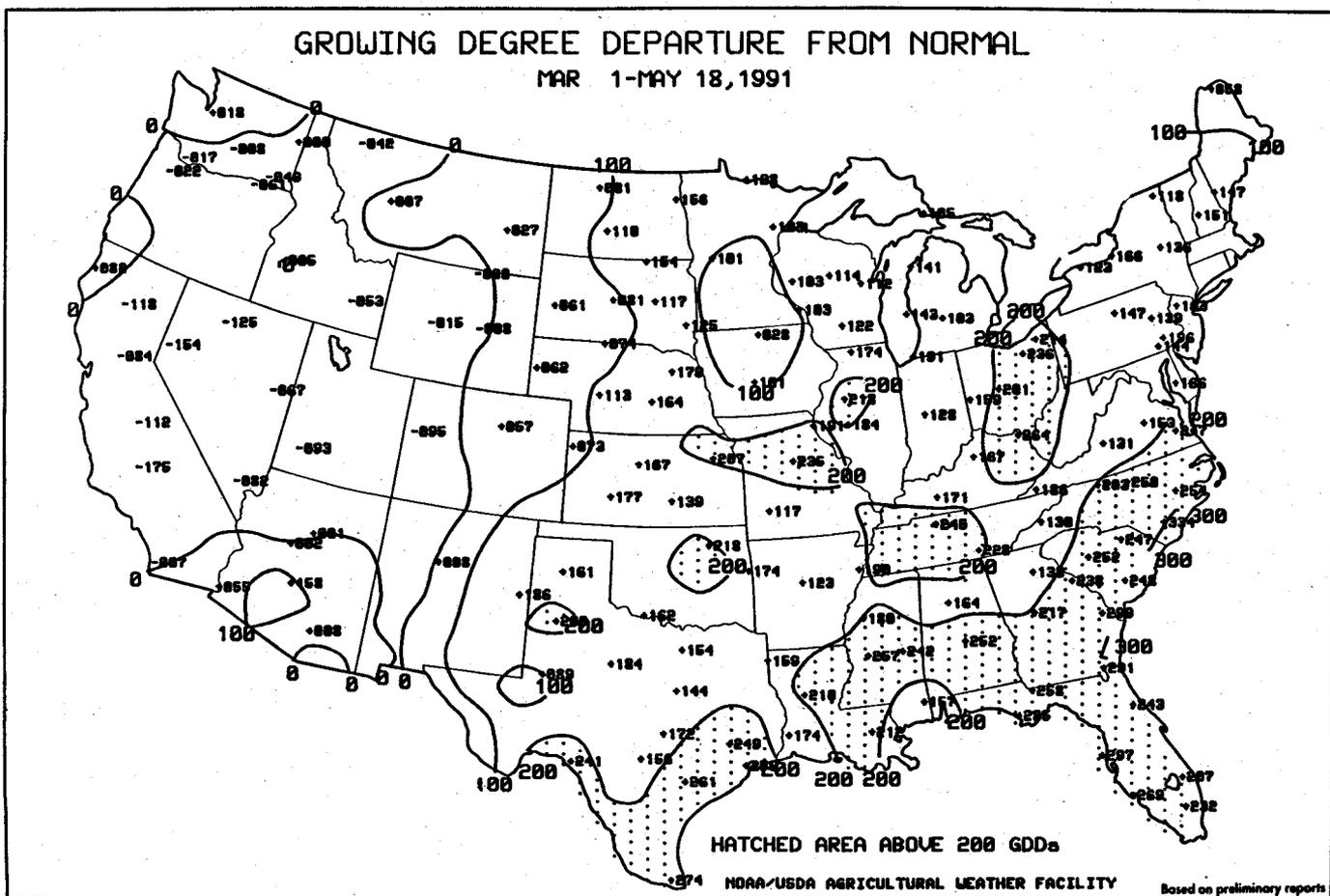
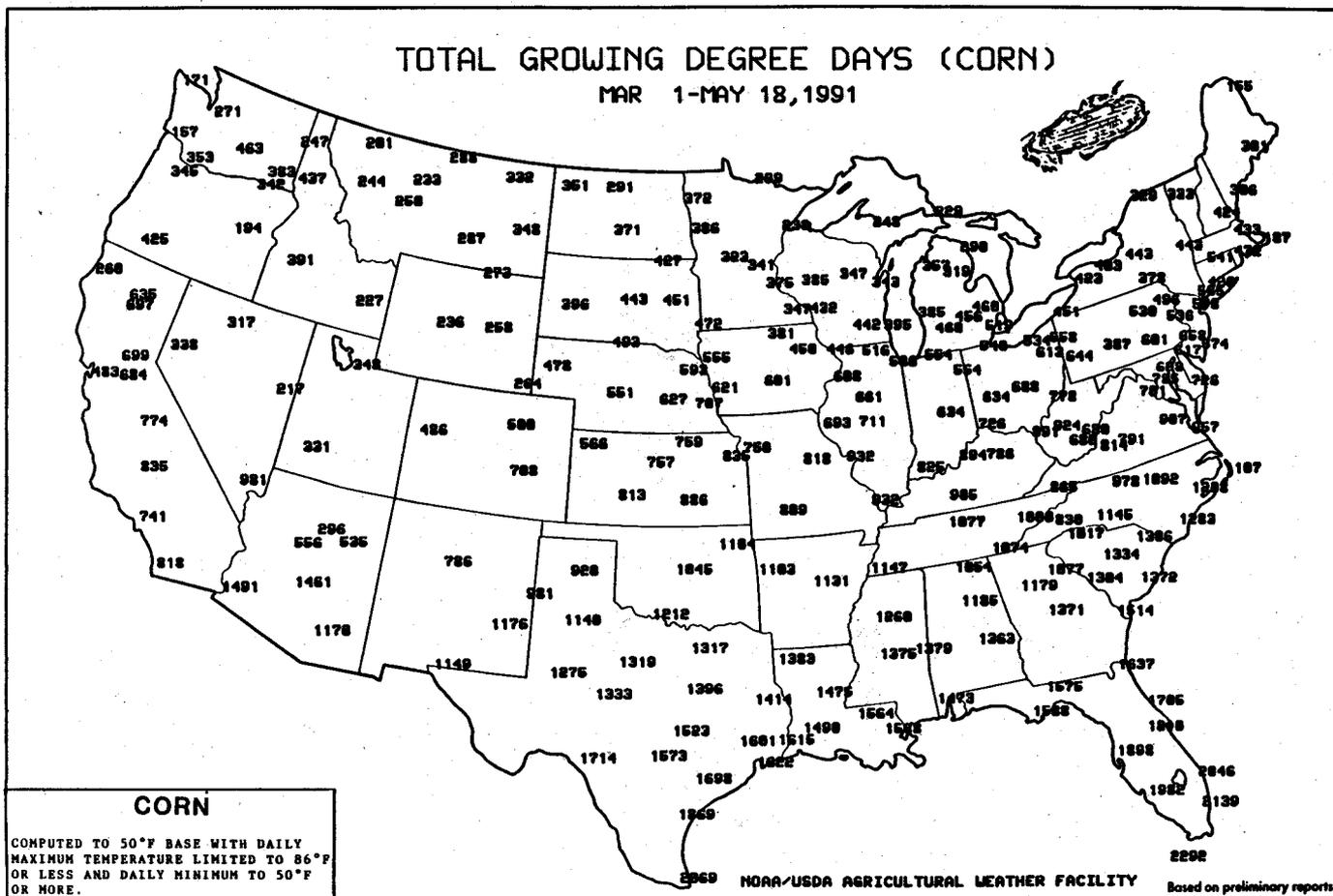


Average Soil Temperature(°F 4-Inch Bare)

MAY 12-18, 1991

LAST CHART FOR THIS SEASON





Heating Degree Days (Base 65°) For April 1991

States and Stations	TOTAL	Depart Normal	States and Stations	TOTAL	Depart Normal	States and Stations	TOTAL	Depart Normal
AL. Birmingham . . .	74	-36	MD. Baltimore . . .	289	-45	OK. Okla. City . . .	110	-74
Mobile . . .	13	-30	MA. Boston . . .	407	-82	Tulsa . . .	83	-85
Montgomery . . .	29	-43	Chatham . . .	550	-62	OR. Astoria . . .	537	75
AK. Anchorage . . .	813	-75	MI. Alpena . . .	595	-146	Burns . . .	732	15
Barrow . . .	1849	-152	Detroit . . .	394	-134	Medford . . .	456	15
Fairbanks . . .	877	-167	Flint . . .	450	-126	Pendleton . . .	454	13
Nome . . .	1198	-215	Grand Rapids . . .	430	-131	Portland . . .	420	-18
AZ. Flagstaff . . .	652	-50	Houghton Lake . . .	540	-153	Salem . . .	464	-19
Phoenix . . .	5	-47	Lansing . . .	449	-112	PA. Allentown . . .	374	-76
Tucson . . .	47	-39	Marquette . . .	678	-150	Erie . . .	412	-191
Winslow . . .	415	55	S. Ste. Marie . . .	657	63	Harrisburg . . .	345	-39
Yuma . . .	3	-34	MN. Duluth . . .	661	-140	Philadelphia . . .	296	-67
AR. Fort Smith . . .	87	-60	Internat'l Falls . . .	601	-203	Pittsburg . . .	337	-110
Little Rock . . .	70	-54	Minneapolis . . .	481	-89	Scranton . . .	402	-99
CA. Bakersfield . . .	154	17	Rochester . . .	507	-105	RI. Providence . . .	400	-113
Eureka . . .	421	-47	St. Cloud . . .	554	-106	SC. Charleston . . .	34	-35
Fresno . . .	163	-24	MS. Jackson . . .	35	-42	Columbia . . .	51	-36
Los Angeles . . .	130	-50	Meridian . . .	27	-58	Greenville . . .	125	-29
Redding . . .	253	43	MO. Columbia . . .	221	-95	SD. Aberdeen . . .	490	-122
Stockton . . .	192	-114	Kansas City . . .	258	-56	Huron . . .	477	-105
San Diego . . .	104	-20	St. Louis . . .	154	-125	Rapid City . . .	556	-56
San Francisco . . .	273	-33	Springfield . . .	226	-53	Sioux Falls . . .	455	-106
CO. Denver . . .	510	-18	MT. Billings . . .	635	23	TN. Chattanooga . . .	75	-96
Pueblo . . .	406	-15	Glasgow . . .	572	-103	Knoxville . . .	93	-88
CO. Bridgeport . . .	396	-96	Great Falls . . .	649	-20	Memphis . . .	57	-69
Hartford . . .	373	-113	Havre . . .	595	-74	Nashville . . .	80	-106
DC. Washington . . .	237	-20	Helena . . .	630	-51	TX. Abilene . . .	22	-76
FL. Apalachicola . . .	7	-23	Kalispell . . .	665	-7	Amarillo . . .	208	-63
Jacksonville . . .	10	-11	Miles City . . .	558	-45	Austin . . .	8	-33
Key West . . .	0	0	Missoula . . .	628	-5	Beaumont . . .	9	-14
Miami . . .	0	0	NE. Grand Island . . .	370	-77	Brownsville . . .	0	0
Orlando . . .	0	0	Lincoln . . .	330	-87	Corpus Christi . . .	4	-3
W. Palm Beach . . .	0	0	Norfolk . . .	381	-108	Del Rio . . .	2	-13
Tallahassee . . .	19	-29	North Platte . . .	466	-56	El Paso . . .	78	-15
Tampa . . .	0	0	Omaha . . .	338	-100	Fort Worth . . .	37	-48
GA. Atlanta . . .	54	-79	Valentine . . .	541	-35	Galveston . . .	2	-17
Augusta . . .	52	-40	NV. Ely . . .	782	59	Houston . . .	8	-24
Macon . . .	32	-28	Las Vegas . . .	57	-74	Lubbock . . .	82	-96
Savannah . . .	14	-28	Reno . . .	540	-18	Midland . . .	47	-55
ID. Boise . . .	493	1	Winnemucca . . .	647	56	San Angelo . . .	38	-35
Lewiston . . .	383	-61	NH. Concord . . .	517	-110	San Antonio . . .	7	-21
Pocatello . . .	610	-2	NJ. Atlantic City . . .	362	-58	Victoria . . .	4	-14
IL. Chicago . . .	393	-93	NM. Albuquerque . . .	263	-39	Waco . . .	15	-56
Moline . . .	339	-99	NY. Albany . . .	417	-135	Wichita Falls . . .	63	-55
Peoria . . .	285	-126	Binghamton . . .	483	-138	UT. Salt Lake City . . .	508	34
Rockford . . .	402	-111	Buffalo . . .	431	-157	VT. Burlington . . .	475	-194
Springfield . . .	243	-111	New York . . .	312	-81	VA. Lynchburg . . .	231	-32
Fort Wayne . . .	355	-119	Rochester . . .	458	-112	Norfolk . . .	166	-53
Indianapolis . . .	292	-90	Syracuse . . .	428	-139	Richmond . . .	193	-33
South Bend . . .	378	-117	NC. Asheville . . .	204	-79	Roanoke . . .	245	-23
IA. Des Moines . . .	355	-80	Charlotte . . .	88	-67	WA. Quillayute . . .	563	-7
Dubuque . . .	425	-109	Greensboro . . .	167	-48	Seattle-Tacoma . . .	472	-17
Souix City . . .	379	-84	Hatteras . . .	81	-105	Spokane . . .	568	-8
KS. Concordia . . .	275	-92	Raleigh . . .	153	-28	Walla Walla . . .		
Dodge City . . .	275	-56	Wilmington . . .	63	-31	Yakima . . .	466	-8
Goodland . . .	453	-36	ND. Bismark . . .	557	-118	WV Beckley . . .	254	-151
Topeka . . .	233	-88	Fargo . . .	505	-182	Charleston . . .	192	-106
Wichita . . .	201	-74	Williston . . .	533	-163	Huntington . . .	188	-105
KY. Lexington . . .	215	-91	OH. Akron-Canton . . .	349	-143	WI. Green Bay . . .	516	-123
Louisville . . .	167	-97	Cincinnati . . .	250	-100	La Crosse . . .	438	-138
LA. Baton Rouge . . .	15	-17	Cleveland . . .	379	-128	Madison . . .	467	-109
Lake Charles . . .	14	-15	Columbus . . .	282	-126	Milwaukee . . .	467	-145
New Orleans . . .	8	-17	Dayton . . .	304	-101	WY Casper . . .	681	-6
Shreveport . . .	26	-43	Toledo . . .	377	-139	Cheyenne . . .	712	16
ME. Caribou . . .	755	-76	Youngstown . . .	399	-129	Lander . . .	696	15
Portland . . .	568	-98				Sheridan . . .	682	7

Based on 1951-80 normals.

National Weather Data for Selected Cities

Weather Data for the Week Ending May 18, 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	MINIMUM	90 AND ABOVE	32 AND BELOW	TEMP. °F		PRECIP.	
																			.01 INCH OR MORE	.50 INCH OR MORE		
AL BIRMINGHAM	83	64	89	62	74	4	2.9	1.8	1.2	14.7	103	22.3	92	100	66	0	0	0	6	3		
MOBILE	87	69	89	65	78	3	.9	-.4	.7	23.3	156	42.7	175	98	58	0	0	0	5	7		
MONTGOMERY	88	66	90	64	77	5	3.1	2.2	1.3	23.3	184	34.3	161	98	56	4	0	0	2	1		
AK ANCHORAGE	53	37	56	32	45	-1	T	T	T	1.0	62	2.0	63	81	38	0	0	0	0	0		
BARROW	34	25	39	21	30	11	T	T	T	.1	27	.3	34	97	74	0	0	0	0	0		
FAIRBANKS	62	36	66	31	49	1	T	T	T	2.3	252	3.6	193	69	23	0	0	1	1	0		
JUNEAU	55	42	57	32	48	2	.7	-.1	.5	11.3	138	22.7	146	98	53	0	0	1	3	0		
KODIAK	46	38	49	36	42	0	2.1	.9	.7	17.2	163	38.0	178	95	74	0	0	0	7	2		
NOME	41	30	44	26	36	0	.1	.0	.1	1.4	95	2.9	109	95	66	0	0	5	1	0		
AZ PHOENIX	92	66	97	61	79	2	.0	.0	.0	2.1	181	3.2	134	30	12	5	0	0	0	0		
PRESCOTT	74	43	78	33	59	2	.0	-.1	.0	4.0	155	6.2	105	51	17	0	0	0	0	0		
TUCSON	91	55	95	48	73	0	.0	.0	.0	1.4	128	3.5	138	32	9	5	0	0	0	0		
YUMA	93	63	98	58	78	0	.0	.0	.0	.8	266	1.8	203	38	12	5	0	0	0	0		
AR FORT SMITH	86	66	90	64	76	7	.6	-.5	.6	13.0	120	16.0	105	97	56	2	2	0	3	1		
LITTLE ROCK	86	69	90	66	78	7	.5	-.7	.5	15.2	115	23.5	112	88	60	2	0	0	1	1		
CA BAKERSFIELD	78	50	89	43	64	-6	T	-.1	T	3.8	222	4.6	122	74	29	0	0	0	0	0		
EUREKA	57	48	60	47	52	0	.9	-.5	.4	11.3	125	15.7	74	90	71	0	0	0	5	0		
FRESNO	75	50	86	45	62	-5	T	.0	T	7.3	246	8.5	124	82	30	0	0	1	0	0		
LOS ANGELES	68	53	74	50	61	-2	.0	.0	.0	4.0	143	7.9	95	88	51	0	0	0	0	0		
REDDING	71	49	84	42	60	-9	1.8	1.5	1.1	12.1	140	17.0	73	89	40	0	0	5	2	0		
SACRAMENTO	71	48	86	45	60	-5	.2	-.2	.1	6.7	188	10.2	97	94	45	0	0	0	4	0		
SAN DIEGO	67	56	69	52	62	-2	.0	.0	.0	7.3	270	10.4	163	83	56	0	0	0	0	0		
SAN FRANCISCO	63	50	69	48	56	-1	.1	-.1	.1	6.9	156	10.9	89	86	56	0	0	2	0	0		
CO DENVER	74	46	84	39	60	3	.6	.0	.3	3.7	83	4.5	81	74	22	0	0	2	0	0		
GRAND JUNCTION	74	47	86	38	61	-1	.2	.0	.1	1.8	95	2.8	92	58	19	0	0	0	2	0		
PUEBLO	81	47	93	38	64	3	.1	-.2	.1	2.0	79	2.1	69	50	14	2	0	0	2	0		
CT BRIDGEPORT	78	56	88	52	67	9	.6	-.2	.6	10.0	103	14.6	92	91	49	0	0	2	1	1		
HARTFORD	82	54	90	46	68	9	1.0	.3	.8	12.3	122	16.5	98	94	37	1	0	3	1	0		
DC WASHINGTON	87	64	91	57	76	10	.3	-.5	.3	7.2	87	11.0	80	92	48	3	0	2	0	0		
FL APALACHICOLA	86	71	88	68	78	4	1.5	.9	1.3	23.0	259	47.2	294	98	67	0	0	3	1	1		
DAYTONA BEACH	88	68	92	63	78	3	2.3	1.6	1.9	17.7	258	21.6	175	98	55	1	0	2	1	1		
JACKSONVILLE	91	69	94	64	80	5	.1	-.9	.1	16.0	184	27.7	182	95	48	5	0	2	0	0		
KEY WEST	88	77	90	73	83	2	.4	-.3	.3	5.1	117	7.6	95	86	62	2	0	2	0	0		
MIAMI	88	74	91	73	81	3	.1	-.3	.1	7.6	90	11.2	90	87	53	1	0	3	0	0		
ORLANDO	90	69	93	67	79	2	3.0	2.2	1.9	17.5	239	20.9	166	98	49	4	0	5	2	2		
TALLAHASSEE	90	66	92	65	78	4	1.2	.0	.8	21.9	175	41.7	188	99	53	5	0	5	1	1		
TAMPA	90	72	93	71	81	4	1.1	.4	1.1	8.0	116	10.8	90	93	49	4	0	1	1	1		
WEST PALM BEACH	87	72	88	68	79	2	2.4	1.0	2.2	15.2	169	30.0	210	93	60	0	0	3	1	1		
GA ATLANTA	85	67	90	65	76	6	2.3	1.3	1.1	17.4	137	25.1	114	97	53	1	0	3	3	3		
AUGUSTA	89	67	93	64	78	7	3.8	3.0	1.8	17.1	166	26.6	145	100	53	4	0	5	2	2		
MACON	88	68	91	67	78	5	.7	-.2	.6	16.1	148	28.7	147	98	55	4	0	2	1	1		
SAVANNAH	88	70	91	66	79	6	1.1	.0	.5	17.6	184	26.8	170	97	56	3	0	4	0	1		
HI HILO	81	67	83	65	74	1	1.0	-.2	.6	51.8	159	65.0	117	91	62	0	0	0	4	0		
HONOLULU	85	71	87	69	78	1	.0	-.3	.0	7.2	127	10.1	83	74	46	0	0	0	0	0		
KARULUI	84	67	86	63	76	0	T	-.1	T	2.8	68	7.7	70	86	53	0	0	0	0	0		
LIHUE	81	71	82	67	76	1	T	-.7	T	13.2	137	15.4	79	82	62	0	0	0	0	0		
ID BOISE	66	42	77	35	54	-3	.8	.6	.6	3.5	120	4.9	88	86	39	0	0	4	1	1		
LEWISTON	65	47	70	41	56	-2	1.0	.7	.5	3.7	127	4.2	80	88	46	0	0	3	1	1		
POCATELLO	64	39	73	35	52	-2	.2	-.1	.1	7.7	280	8.7	186	91	39	0	0	4	0	0		
IL CHICAGO	80	57	89	45	69	10	1.4	.7	.9	10.3	124	12.4	111	96	49	0	0	3	1	1		
MOLINE	81	59	90	50	70	9	1.3	.4	.8	11.8	130	13.4	112	98	60	1	0	5	1	1		
PEORIA	80	62	86	55	71	10	2.4	1.5	1.1	10.4	117	12.2	102	100	66	0	0	5	2	2		
QUINCY	81	64	86	62	73	10	1.9	1.0	.8	10.2	107	11.1	90	90	60	0	0	5	2	2		
ROCKFORD	79	58	88	47	68	9	.9	.1	.5	8.4	94	10.0	87	95	48	0	0	5	1	1		
SPRINGFIELD	83	62	89	57	73	9	1.6	.8	1.2	11.0	121	13.0	106	100	67	0	0	3	1	1		
IN EVANSVILLE	85	63	88	61	74	9	.6	-.5	.6	8.4	74	14.4	83	99	66	0	0	1	1	1		
FORT WAYNE	83	57	90	49	70	10	.7	.0	.6	9.3	109	12.4	99	97	47	2	0	3	1	1		
INDIANAPOLIS	82	61	86	54	71	9	1.8	1.0	.8	13.1	141	16.6	115	97	59	0	0	5	1	1		
SOUTH BEND	82	57	90	47	70	11	.8	.2	.6	8.7	100	12.2	93	98	46	1	0	3	1	1		
IA DES MOINES	81	61	89	51	71	9	2.9	2.0	1.5	16.0	211	17.2	177	95	58	0	0	4	2	2		
SIoux CITY	78	58	88	50	68	7	1.7	.9	.6	8.9	153	9.8	132	98	58	0	0	6	1	1		
WATERLOO	77	57	88	47	67	8	3.3	2.4	2.6	16.9	208	18.0	183	99	63	0	0	5	1	1		
KS CONCORDIA	81	60	88	52	70	7	.5	-.4	.4	5.1	80	5.8	75	92	51	0	0	2	0	0		
DODGE CITY	87	58	94	49	72	8	.5	-.2	.5	2.8	54	3.1	51	92	31	2	0	1	1	0		
GOODLAND	77	50	85	43	63	5	.2	-.5	.1	2.7	72	3.1	69	94	41	0	0	2	0	0		
TOPEKA	84	64	91	61	74	10	2.4	1.5	1.9	9.8	131	10.5	112	97	53	1	0	5	1	1		
WICHITA	86	64	91	57	75	9	.7	-.2	.7	4.6	70	5.6	69	92	47	1	0	2	1	1		
KY BOWLING GREEN	84	65	92	59	75	8	.5	-.4	.5	9.8	81	20.3	98	96	64	1	0	1	1	1		
LEXINGTON	82	64	87	58	73	9	1.6	.6	.9	11.4	101	17.9	99	98	61	0	0	4	2	2		
LOUISVILLE	85	67	90	64	76	11	1.0	.1	.5	10.7	95	17.7	99	94	60	1	0	4	1	1		
LA ALEXANDRIA	85	71	89	68	78	3	2.3	1.1	1.4	29.8	220	43.8	193	95	62	0	0	5	2	2		
BATON ROUGE	86	69	91	66	78	3	1.9	.7	.7	21.6	164	39.2	172	100	61	3	0	4	2	2		
LAKE CHARLES	82	69	85	67	76	1	2.3	1.0	1.8	18.0	176	34.9	192	100	69	0	0	5	1	1		
NEW ORLEANS	85	70	91	68	77	3	2.1	.9	1.5	29.3	242	54.0	242	98	64	2	0	3	2	2		

Based on 1951-80 normals

Weather Data for the Week Ending May 18, 1991

STATES AND STATIONS	TEMPERATURE °F							PRECIPITATION							RELATIVE HUMIDITY PERCENT		NUMBER OF DAYS					
	AVERAGE	MAXIMUM	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	MINIMUM	90 AND ABOVE	32 AND BELOW	TEMP. °F		PRECIP.	
																			.01 INCH OR MORE	.50 INCH OR MORE		
SHREVEPORT	86	68	89	66	77	4	1.8	-.7	1.1	33.4	296	46.2	246	97	60	0	0	4	2	0	0	
ME CARIBOU	63	40	72	30	51	2	-.4	-.3	-.3	9.2	139	12.4	112	73	38	0	0	1	3	0	0	
PORTLAND	76	46	88	40	61	9	.6	-.1	-.6	15.8	162	20.6	120	84	32	0	0	1	2	1	0	
MD BALTIMORE	87	60	91	53	73	10	.6	-.2	-.5	8.5	95	12.8	86	91	43	2	0	2	2	0	0	
SALISBURY	85	56	91	49	71	8	.6	-.8	-.6	9.5	103	16.4	103	97	49	1	0	0	1	0	0	
MA BOSTON	78	52	89	44	65	7	.6	-.2	-.6	10.1	102	14.9	85	87	40	0	0	0	1	1	0	
CHATHAM	63	51	69	46	57	4	.3	-.9	-.1	9.1	90	14.5	77	89	69	0	0	0	3	0	0	
MI ALPENA	75	49	86	34	62	10	1.6	-.9	-.7	7.9	132	9.4	104	98	47	0	0	0	3	2	0	
DETROIT	83	58	90	47	71	13	1.8	1.2	1.5	7.0	97	9.4	88	93	43	1	0	0	3	1	0	
FLINT	81	55	88	43	68	12	1.0	-.4	-.8	8.6	128	10.8	111	93	47	0	0	0	2	1	0	
GRAND RAPIDS	79	53	87	39	66	12	1.3	-.4	-.3	10.2	131	12.2	108	93	45	1	0	0	1	0	0	
HOUGHTON LAKE	81	51	88	43	66	10	1.3	-.7	-.7	9.6	160	11.4	130	88	39	0	0	0	3	1	0	
LANSING	71	46	87	30	58	8	.5	-.0	-.5	9.3	143	11.4	120	98	54	0	0	0	1	0	0	
MARQUETTE	77	53	85	46	65	9	.5	-.4	-.5	8.4	96	11.1	88	88	51	0	1	3	0	0	0	
MUSKOGON	74	43	89	33	59	9	.1	-.5	-.0	9.1	128	11.3	101	94	51	0	0	2	0	0	0	
SAULT ST. MARIE	74	43	89	33	59	9	.7	-.1	-.4	8.2	136	10.3	105	96	39	0	0	0	3	0	0	
MN ALEXANDRIA	78	54	91	40	66	11	.2	-.5	-.2	6.1	122	7.5	116	82	32	1	0	0	2	0	0	
DULUTH	73	46	83	36	59	10	.2	-.5	-.2	6.9	123	7.9	104	89	37	0	0	0	2	0	0	
INT'L FALLS	78	50	89	38	64	13	.9	-.5	-.2	4.6	116	6.3	114	88	32	0	0	0	1	0	0	
MINNEAPOLIS	76	56	90	43	66	8	.9	-.2	-.5	9.2	171	10.8	153	90	44	1	0	0	5	0	0	
ROCHESTER	74	55	87	40	64	8	1.3	-.5	-.7	11.1	179	12.2	159	95	58	0	0	0	5	1	0	
MS GREENWOOD	88	69	93	67	78	6	.1	-1.0	-.1	22.2	150	35.1	144	95	55	2	0	0	2	0	0	
JACKSON	88	68	92	67	78	6	1.6	-.4	1.4	28.8	201	39.1	166	99	59	2	0	0	2	1	0	
MERIDIAN	87	66	91	63	77	5	.6	-.4	-.4	23.7	162	36.8	152	98	55	1	0	0	3	0	0	
MO CAPE GIRARDEAU	83	66	88	62	74	7	1.4	-.3	-.5	11.4	93	17.6	96	97	62	0	0	0	4	1	0	
COLUMBIA	84	65	87	63	75	10	1.1	-.0	-.5	9.4	95	11.1	82	96	62	0	0	0	4	1	0	
KANSAS CITY	81	63	86	59	72	6	1.0	-.0	-.4	9.1	108	10.7	98	97	60	0	0	0	5	0	0	
SAINT LOUIS	85	66	91	62	76	11	.5	-.3	-.3	8.6	97	11.1	88	95	56	1	0	0	2	0	0	
SPRINGFIELD	82	62	85	58	72	7	3.1	2.2	2.7	11.4	115	15.4	112	99	61	0	0	0	4	1	0	
MT BILLINGS	67	49	74	45	58	3	1.0	-.4	-.5	6.2	144	7.5	126	85	43	0	0	0	4	1	0	
GLASGOW	71	48	73	41	60	5	.5	-.2	-.5	2.7	151	3.3	132	81	34	0	0	0	1	1	0	
GREAT FALLS	66	46	72	37	56	3	.4	-.2	-.4	4.1	109	4.9	91	85	39	0	0	0	1	0	0	
HAVRE	67	47	71	38	57	2	.2	-.2	-.1	2.6	100	3.1	85	87	42	0	0	0	2	0	0	
HELENA	67	45	76	40	56	4	.6	-.2	-.6	3.1	117	3.4	90	78	35	0	0	0	2	1	0	
KALISPELL	65	43	75	36	54	2	-.8	-.4	-.6	3.2	115	5.4	99	93	46	0	0	0	2	1	0	
MILES CITY	68	50	79	43	59	2	.5	-.1	-.2	5.3	166	6.3	144	84	47	0	0	0	3	0	0	
MISSOULA	67	42	77	34	55	3	1.5	1.1	-.9	3.4	125	4.2	86	87	40	0	0	0	4	1	0	
NE GRAND ISLAND	79	56	91	51	67	6	1.4	-.5	1.4	6.8	109	7.4	99	91	50	1	0	0	1	1	0	
LINCOLN	79	60	88	54	70	8	1.0	-.1	-.9	7.2	104	8.3	96	92	53	0	0	0	3	1	0	
NORFOLK	79	57	91	49	68	8	4.2	3.4	3.2	10.2	179	11.5	166	88	49	1	0	0	2	2	0	
NORTH PLATTE	76	50	86	39	63	5	1.1	-.4	-.5	7.0	148	7.5	134	95	46	0	0	0	3	1	0	
OMAHA	79	61	87	51	70	7	1.3	-.4	1.1	12.9	178	14.3	161	90	57	0	0	0	4	1	0	
SCOTTSBLUFF	71	47	92	41	59	2	2.2	1.6	1.5	4.2	110	5.1	109	89	46	1	0	0	3	2	0	
VALENTINE	76	51	92	41	64	6	1.0	-.3	-.9	5.5	129	6.2	123	84	46	1	0	0	2	1	0	
NV ELY	59	29	72	24	44	-6	-.6	-.4	-.6	3.5	143	3.8	99	85	30	0	5	1	1	0	0	
LAS VEGAS	82	55	91	50	69	-4	-.0	-.1	-.0	1.0	138	1.8	107	39	16	1	0	0	0	0	0	
RENO	63	38	76	32	50	-4	-.2	-.2	-.2	2.2	140	2.5	66	76	28	0	1	0	0	0	0	
WINNEMUCCA	61	37	77	25	49	-5	-.6	-.4	-.4	2.6	139	3.3	96	84	36	0	1	0	0	0	0	
NH CONCORD	81	44	89	39	63	8	.5	-.1	-.5	7.4	96	10.7	83	94	27	0	0	0	4	0	0	
NJ ATLANTIC CITY	83	55	90	46	69	9	-.7	-.7	-.7	9.4	105	15.8	100	95	50	1	0	0	1	1	0	
NM ALBUQUERQUE	84	48	90	41	66	2	-.1	-.1	-.2	1.4	8	1.8	43	35	9	1	0	0	0	0	0	
CLOVIS	87	57	93	54	72	7	-.0	-.5	-.0	4	18	1.1	33	68	16	3	0	0	0	0	0	
ROSWELL	93	57	97	54	75	6	-.0	-.2	-.0	-.0	3	-.6	29	36	14	6	0	0	0	0	0	
NY ALBANY	80	48	89	43	64	7	-.4	-.4	-.3	8.3	106	12.1	98	93	35	0	0	0	2	0	0	
BINGHAMTON	77	52	82	42	65	10	-.2	-.5	-.2	9.2	117	13.4	107	93	42	0	0	0	3	0	0	
BUFFALO	78	54	89	44	66	10	1.5	-.9	1.5	13.7	178	17.8	136	92	41	0	0	0	3	1	0	
NEW YORK	84	61	88	53	72	11	-.4	-.3	-.4	8.5	86	13.5	84	81	40	0	0	0	1	0	0	
ROCHESTER	78	52	89	42	65	8	-.8	-.2	-.8	10.1	152	12.9	115	94	43	0	0	0	1	1	0	
SYRACUSE	79	50	89	42	64	8	-.8	-.1	-.7	9.6	117	13.6	101	95	42	0	0	0	3	1	0	
NC ASHEVILLE	81	61	84	59	71	7	-.5	-.4	-.2	12.8	121	17.7	105	100	58	0	0	0	4	0	0	
CHARLOTTE	87	68	91	66	78	10	-.9	-.1	-.4	14.8	146	22.2	125	96	50	2	0	0	4	0	0	
GREENSBORO	85	66	88	64	76	9	1.3	-.5	1.3	16.2	182	21.9	139	96	52	0	0	0	2	1	0	
HATTERAS	84	67	87	57	75	8	-.9	-.9	-.9	8.5	91	22.0	121	95	61	0	0	0	0	0	0	
NEW BERN	87	66	92	58	77	7	1.5	-.5	1.2	7.7	85	16.9	99	97	57	2	0	0	2	1	0	
RALEIGH	87	65	91	61	76	9	-.9	-.9	-.9	5.9	68	10.7	69	98	52	2	0	0	0	0	0	
WILMINGTON	87	67	93	59	77	6	1.0	-.1	-.9	11.1	120	23.0	140	98	57	2	0	0	4	1	0	
ND BISMARCK	74	48	80	38	61	7	-.8	-.3	-.3	3.7	111	4.1	96	89	43	0	0	0	3	0	0	
FARGO	80	56	91	40	68	12	-.7	-.2	-.7	5.7	146	7.3	151	78	31	1	0	0	2	1	0	
GRAND FORKS	79	54	89	40	66	12	-.3	-.1	-.2	5.1	162	6.1	140	84	31	0	0	0	2	0	0	
WILLISTON	70	48	74	39	59	5	-.9	-.5	-.4	3.3	118	3.8	102	87	40	0	0	0	4	0	0	
OH AKRON-CANTON	85	61	91	49	73	14	-.1	-.7	-.1	6.4	74	10.8	81	91	42	2	0	0	2	0	0	
CINCINNATI	84	63	88	59	74	11	-.9	-.1	-.5	11.5	119	18.3	118	98	55	0	0	0	3	0	0	
CLEVELAND	82	59	89	49	71	12	-.5	-.3	-.4	9.3	114	13.8	108	93	45	0	0	0	2	0	0	
COLUMBUS	87	62	92	56	74	13	-.2	-.6	-.1	8.8	101	13.1	96	95	46	2	0	0	4	0	0	

Based on 1951-80 normals

Weather Data for the Week Ending May 18, 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	MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE
	DAYTON	84	61	89	53	72	11	2.5	1.7	1.2	13.3	154	18.3	139	97	51	0	0	3	3		
TOLEDO	85	57	93	48	71	13	1.1	-1.6	1.1	7.2	99	10.0	91	97	38	3	1	1	1	0	0	0
YOUNGSTOWN	83	56	87	48	70	13	1.6	-2.2	1.4	6.8	79	10.4	77	93	42	0	0	3	1	1	0	0
OK OKLAHOMA CITY	85	66	89	64	75	7	3	-1.9	3.3	7.6	95	9.6	83	95	52	0	0	1	1	1	0	0
TULSA	86	69	90	64	77	8	3	-1.6	5.5	6.4	62	8.2	62	91	57	1	1	2	2	2	1	0
OR ASTORIA	57	46	62	41	51	8	-1.1	-2.2	1.1	16.9	123	32.2	100	95	67	0	0	0	0	0	0	0
BURNS	57	37	67	27	47	7	1.0	1.0	1.0	2.0	97	3.0	66	85	57	0	0	0	0	0	0	0
MEDFORD	63	44	72	38	54	5	1.5	1.2	1.2	5.2	147	9.5	94	91	47	0	1	1	1	1	1	1
PENDLETON	61	46	69	39	53	5	1.5	1.2	1.2	3.9	146	5.4	99	83	50	0	0	0	0	0	0	0
PORTLAND	61	47	72	40	54	5	2.0	1.5	1.3	11.6	164	17.9	104	89	57	0	0	0	0	0	0	0
SALEM	61	44	72	32	53	5	2.6	2.1	2.1	13.1	166	19.2	99	95	58	0	0	1	1	1	1	1
PA ALLENTOWN	84	57	89	50	71	11	1.1	1.1	1.1	9.0	91	12.9	79	92	39	0	0	0	0	0	0	0
ERIE	78	57	90	47	68	11	1.1	-1.7	1.1	7.4	90	11.1	88	87	49	1	1	1	1	1	1	1
HARRISBURG	85	61	89	57	73	11	1.1	-1.7	1.1	8.2	93	12.2	84	89	43	0	0	0	0	0	0	0
PHILADELPHIA	86	61	90	51	73	11	1.1	-1.7	1.1	8.7	95	13.5	90	92	46	3	3	2	2	1	1	0
PITTSBURGH	84	61	89	56	72	13	1.1	-1.7	1.1	7.4	83	11.9	84	89	41	0	0	0	0	0	0	0
SCRANTON	82	55	86	46	69	10	1.5	-2.2	1.3	7.3	98	10.1	87	90	39	0	0	0	0	0	0	0
RI PROVIDENCE	79	52	86	45	66	8	1.6	-2.2	1.6	13.7	133	19.5	108	89	36	0	0	0	0	0	0	0
SC CHARLESTON	86	70	91	65	78	6	2.3	1.3	2.1	11.7	127	20.4	129	99	64	2	2	0	0	3	3	1
COLUMBIA	89	68	92	66	79	7	2.1	1.2	1.7	18.6	170	26.0	135	96	56	2	2	0	0	4	3	3
FLORENCE	88	69	92	62	78	7	1.5	-1.8	1.8	10.0	113	16.6	106	96	56	0	0	0	0	4	4	1
GREENVILLE	85	65	90	62	75	6	2.7	1.9	1.6	15.7	125	22.6	107	99	56	1	1	0	0	4	2	2
SD ABERDEEN	76	54	90	43	65	9	3.2	2.6	2.0	8.9	209	9.8	181	87	46	1	0	0	0	3	3	2
BURON	76	53	88	46	64	7	1.7	-1.1	1.5	8.4	181	9.4	162	85	54	0	0	0	0	3	3	1
RAPID CITY	67	50	85	44	59	3	1.5	1.0	1.8	6.3	144	7.4	138	90	51	0	0	0	0	5	5	1
SIoux FALLS	77	55	89	45	66	8	3.2	2.5	1.9	7.6	134	8.2	115	92	53	0	0	0	0	3	2	0
TN CHATTANOOGA	85	65	90	63	75	8	1.2	-1.7	1.2	16.5	124	27.4	118	97	54	2	0	0	0	2	0	0
KNOXVILLE	84	65	88	63	75	7	1.6	-1.8	1.3	12.4	108	21.9	108	98	55	0	0	0	0	3	1	0
MEMPHIS	88	68	92	67	78	7	1.1	-1.4	1.4	24.9	175	34.2	148	95	59	1	0	0	0	6	6	0
NASHVILLE	86	68	91	65	77	9	1.4	-1.3	1.4	11.1	88	19.5	92	92	57	1	0	0	0	1	1	0
TX ABILENE	89	68	94	64	78	6	1.1	-1.7	1.1	2.8	53	5.7	78	83	37	4	0	0	0	1	0	0
AMARILLO	87	57	90	49	72	6	1.1	-1.6	1.1	1.2	36	2.1	47	84	22	2	0	0	0	1	0	0
AUSTIN	85	68	89	66	77	2	1.9	-1.1	1.8	9.1	126	21.2	189	97	59	0	0	0	0	4	1	1
BEAUMONT	85	70	88	67	78	3	5.1	4.0	1.6	18.7	185	38.1	207	96	66	0	0	0	0	5	4	3
BROWNSVILLE	88	72	90	66	80	1	2.9	2.5	1.3	13.4	419	16.4	276	96	60	3	0	0	0	4	3	3
CORPUS CHRISTI	86	70	90	67	78	0	2.9	2.2	1.8	11.4	258	15.2	202	97	63	2	0	0	0	4	2	2
DEL RIO	92	69	97	65	81	3	1.7	1.2	1.7	3.9	106	5.2	103	74	34	5	0	0	0	1	1	1
EL PASO	90	57	94	50	73	1	1.0	-1.1	1.0	1.1	17	1.6	113	26	13	4	0	0	0	0	0	0
FORT WORTH	85	68	88	66	77	4	2.5	1.5	1.6	10.2	112	15.6	123	94	60	0	0	0	0	2	2	2
GALVESTON	83	72	85	68	77	2	4.8	4.1	2.5	13.5	203	30.6	255	93	69	0	0	0	0	5	3	3
HOUSTON	88	70	90	67	79	4	1.7	-1.6	1.8	13.2	145	28.8	181	96	58	3	0	0	0	5	2	2
LUBBOCK	92	60	95	55	76	7	1.7	-1.6	1.3	3.9	3.0	7.0	80	23	4	0	0	0	0	0	0	0
MIDLAND	94	60	97	55	77	5	1.3	-2.2	1.3	12	2.3	68	83	18	7	0	0	0	0	2	0	0
SAM ANGELO	94	64	99	61	79	6	1.3	-1.3	1.3	1.5	38	3.9	71	88	26	7	0	0	0	1	0	0
SAM ANTONIO	86	69	91	64	78	2	1.8	-1.1	1.7	11.1	180	18.5	195	97	55	2	0	0	0	3	1	1
VICTORIA	85	69	90	64	77	0	1.4	-1.7	1.3	16.0	250	26.8	256	98	63	1	0	0	0	3	0	0
WACO	86	68	90	64	77	3	3.5	2.4	3.5	9.2	107	13.8	112	97	61	2	0	0	0	2	1	1
WICHITA FALLS	87	66	93	61	76	5	1.1	-1.0	1.1	5.0	69	7.7	83	95	50	2	0	0	0	0	0	0
UT CEDAR CITY	66	40	74	30	53	-3	-1.1	-1.1	1.1	1.4	55	2.5	62	72	19	0	1	1	1	0	0	0
SALT LAKE CITY	67	43	77	36	55	-3	1.8	-1.4	1.4	5.9	122	7.6	102	85	34	0	0	0	0	3	0	0
VT BURLINGTON	75	43	87	35	59	4	1.5	-1.1	1.5	7.9	120	10.0	99	93	31	0	0	0	0	1	1	1
VA NORFOLK	86	64	93	58	75	9	1.3	-1.6	1.3	11.5	131	17.1	108	94	52	2	0	0	0	1	0	0
RICHMOND	88	61	93	57	75	9	1.1	-1.8	1.1	7.2	85	12.0	81	93	48	2	0	0	0	1	0	0
ROANOKE	86	61	89	59	74	9	1.1	-1.7	1.0	10.4	119	16.1	109	98	47	0	0	0	0	2	0	0
WA QUILLAYUTE	58	45	62	41	51	1	1.3	-1.9	1.1	17.9	80	47.3	96	97	66	0	0	0	0	3	0	0
SEATTLE-TACOMA	61	48	70	43	54	-1	1.3	-1.0	1.1	11.9	172	21.1	123	92	58	0	0	0	0	4	0	0
SPOKANE	62	44	65	37	53	-1	1.7	-1.4	1.4	4.8	150	7.3	101	94	53	0	0	0	0	3	0	0
YAKIMA	68	44	73	33	56	-1	1.1	-1.0	1.0	2.0	145	2.5	73	90	38	0	0	0	0	3	0	0
WV BECKLEY	81	59	85	54	70	10	1.6	-2.3	1.3	10.2	108	16.9	105	98	54	0	0	0	0	3	0	0
CHARLESTON	86	64	90	61	75	12	1.6	-1.3	1.3	10.6	110	16.3	101	99	52	1	0	0	0	3	0	0
HUNTINGTON	87	64	92	60	75	11	1.3	-1.6	1.3	12.4	126	18.1	114	98	51	1	0	0	0	3	0	0
PARKERSBURG	85	62	89	56	73	10	1.3	-1.6	1.3	10.7	120	16.2	113	97	51	0	0	0	0	2	0	0
WI GREEN BAY	78	54	89	45	66	11	1.6	-2.2	1.5	7.1	112	8.0	94	93	47	0	0	0	0	1	0	0
LACROSSE	77	56	88	43	67	9	1.7	-1.9	1.5	11.1	160	12.4	143	98	60	0	0	0	0	6	6	0
MADISON	77	55	89	45	66	9	1.9	-1.1	1.8	11.0	155	12.6	137	96	52	0	0	0	0	3	1	0
MILWAUKEE	78	58	89	43	66	14	1.6	-1.5	1.3	9.0	120	10.9	105	91	49	0	0	0	0	2	0	0
WAUSAU	75	52	87	40	64	8	1.4	-1.5	1.3	9.1	132	10.4	118	95	45	0	0	0	0	4	0	0
WY CASPER	63	42	77	36	53	8	2.4	1.9	1.4	4.9	133	5.9	124	87	47	0	0	0	0	4	2	2
CHEYENNE	63	41	79	36	52	0	2.1	1.6	1.3	4.0	112	4.5	103	81	43	0	0	0	0	3	2	1
LANDER	62	44	71	39	53	1	1.6	1.0	1.2	5.8	117	6.9	115	82	39	0	0	0	0	4	1	1
SHERIDAN	62	46	74	42	54	1	1.6</															

National Agricultural Summary

May 13 - 19, 1991

HIGHLIGHTS: Rains continued to pound the central Gulf coast, causing additional flooding of cropland and heightening concerns over planting prospects. Wet fields delayed fieldwork from the Mississippi Valley through the southeastern part of the Nation. Winter wheat, vegetable, and citrus harvests were active in the southern tier States from California to Florida, and spring planting progressed in more northerly States.

SMALL GRAINS: Winter wheat rated in mostly fair to good condition with 65 percent (%) of the crop headed by the end of the week. This heading progress was 9 percentage points ahead of last year and 2 points ahead of the 5-year average. Condition ratings were mostly fair in the central and southern Great Plains but generally good across the rest of the Nation. Kansas wheat progress continued ahead of schedule with 95% of the crop headed, compared with 85% average. Winter wheat heading progress in all major producing States, except Colorado, was near normal; Colorado's crop was 8% headed, compared with 28% normal. Wheat harvest continued intermittently across the eastern half of Texas, as periodic rains checked progress. Spring wheat condition in the five major producing States (Idaho, Minnesota, Montana, North Dakota, and South Dakota) rated predominately good, with 92% of the crop planted and 71% emerged. Progress of both planting and emergence of spring wheat was similar to last year's and the historical average. Oats were being harvested in California and Texas and were mostly headed in the Southeast. Planting was also well along in the northern production regions. Spring barley planting was also well along in the Rocky Mountains and Pacific Northwest.

CORN: Corn planting surged ahead through the Corn Belt and neared completion from Kansas southward. Nationwide, planting was 78% complete, compared with 75% last year and the historical average of 84%. Progress advanced over 40 points in Minnesota, Nebraska, and South Dakota during the week and over 20 points in most other Corn Belt States. Missouri was a notable exception, as locally heavy rains held progress to 14 points with 70% of the crop planted. Planting was 60% complete in Iowa, compared with 84% last year and 91% average.

SOYBEANS: Planting moved ahead of schedule in the Ohio Valley and North Carolina, and significant progress was made in the Corn Belt. Planting remained delayed from Missouri southward through the Southeast and Gulf Coast States due to wet field conditions. Planting progress in the 17 major producing States stood at 78% complete, 3 points ahead of last year but 6 points behind normal. Less than 15 percent of the crop was seeded from Iowa and Missouri southward through the entire Southeastern United States.

COTTON: Planting showed rapid gains in the Delta and was nearly complete in the West. Nationwide, progress reached 48% complete, compared with 70% last year and the average of 65%. Startling progress was made in Louisiana, which reported planting progress at

59% complete, compared with just 6% last week, as relief from rains in the State's principal producing region allowed growers to begin catching up.

GRAIN SORGHUM: Planting of grain sorghum in the 12 major producing States advanced to 35% complete, 5 points ahead of last year. Progress was normal or slightly ahead of normal in Nebraska, Oklahoma, and Texas but behind normal elsewhere. Sorghum fields showed good progress across Texas. However, excessively wet conditions were affecting fields in wetter portions of the State. Planting activity was minimal in New Mexico as growers awaited additional soil moisture.

RICE: Rice planting progressed some in the Delta region and was nearing completion in Texas. Seeding progress slowed in California due to winds and cool weather. Rice condition rated mostly fair in Louisiana, but water weevils were becoming a problem in the Southwest. Rice stands continued improving in Texas and many upper coastal producers applied herbicides.

OTHER FIELD CROPS: Arizona alfalfa condition rated 75% good and 25% excellent, with harvest moderate to active statewide. Hay cutting was delayed across much of the Southeast due to rain, while some alfalfa stands were cut early in Ohio to control weevil infestations. Rain delayed potato planting in Idaho with 57% of the crop seeded, and farmers were concerned about seed potato decay in several locations. Potato planting was 45% complete in Maine and past the midpoint in all other major producing States. Peanut planting was critically behind normal in Georgia at 56% complete. Progress of peanut planting was beyond halfway throughout the Southeast but just getting underway in Oklahoma and Texas. Dry pea and lentil planting neared completion in the Pacific Northwest. Sunflowers were 39% planted in Minnesota and 14% planted in North Dakota.

FRUIT AND NUTS: Valencia orange and grapefruit harvests continued in Arizona. Cool weather delayed stonefruit maturity in California, while cherry harvest was active in the central and southern areas. Freeze-damaged citrus trees were being pruned in the San Joaquin Valley, and southern citrus harvest progressed. Picking of desert table grapes began. Shedding of new crop fruit was about complete in Florida, and fruit remaining to be picked continued to drop. Winter injury and pseudomonas canker were reported in young pear trees in Oregon's upper Hood River Valley.

(Continued to back cover)

Crop Progress
FOR WEEK ENDING MAY 19, 1991

COTTON
% PLANTED

	1991	1990	AVG.
AL	58	85	88
AZ	93	99	98
AR	47	67	82
CA	99	100	99
GA	45	87	77
LA	59	96	85
MS	33	91	85
MO	44	45	85
NM	92	90	89
NC	92	87	71
OK	32	16	24
SC	75	81	81
TN	18	58	84
TX	36	56	43

14 STATES 48 70 65

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

CORN
% PLANTED

	1991	1990	AVG.
CO	77	84	89
GA	97	99	99
IL	92	67	91
IN	87	64	79
IA	60	84	91
KS	95	85	90
KY	78	49	76
MI	65	70	80
MN	63	84	84
MO	70	42	93
NE	94	88	90
NC	98	99	90
OH	93	83	77
PA	64	52	51
SD	69	66	56
TX	98	97	98
WI	60	60	73

17 STATES 78 75 84

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

RICE
% PLANTED

	1991	1990	AVG.
AR	52	50	83
CA	50	85	82
LA	80	92	92
MS	27	76	92
TX	93	92	98

5 STATES 60 71 87

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

RICE
% EMERGED

	1991	1990	AVG.
AR	30	21	58
CA	10	45	49
LA	72	84	84
MS	15	44	74
TX	76	75	92

5 STATES 40 46 68

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

SOYBEANS
% PLANTED

	1991	1990	AVG.
AL	9	27	26
AR	7	4	16
GA	12	30	28
IL	55	12	56
IN	60	17	40
IA	14	19	44
KS	25	15	20
KY	10	5	20
LA	2	31	25
MI	25	15	25
MN	18	32	44
MS	4	22	20
MO	9	2	30
NE	30	16	32
NC	25	25	17
OH	62	26	44
SC	9	23	15
SD	16	10	20
TN	2	2	19

19 STATES 27 17 36

THESE 19 STATES PRODUCED 95%
OF THE 1990 SOYBEANS CROP.

GRAIN SORGHUM
% PLANTED

	1991	1990	AVG.
AR	50	45	77
CO	18	6	19
IL	26	3	39
KS	15	10	20
LA	59	83	79
MS	40	64	72
MO	17	9	44
NE	28	9	27
NM	32	60	NA
OK	17	5	14
SD	8	8	10
TX	69	72	69

12 STATES 35 30 NA

EXCL. STATES
WITH NA 35 30 39

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

WINTER WHEAT % HEADED			
	1991	1990	AVG.
AR	96	100	99
CA	97	98	98
CO	8	8	28
GA	100	100	100
ID	0	0	0
IL	65	56	72
IN	50	38	39
KS	95	70	85
MI	1	0	1
MO	90	60	81
MT	0	0	0
NE	20	5	24
NC	98	98	91
OH	25	12	14
OK	97	91	96
OR	2	1	10
SD	2	0	6
TX	90	90	87
WA	0	11	7
19 STATES	65	56	63

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

SPRING WHEAT % PLANTED			
	1991	1990	AVG.
ID	93	100	96
MN	99	96	87
MT	87	96	90
ND	90	92	87
SD	100	100	95
5 STATES	92	95	89

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

SPRING WHEAT % EMERGED			
	1991	1990	AVG.
ID	70	83	84
MN	90	83	73
MT	49	73	65
ND	66	64	59
SD	96	100	85
5 STATES	71	74	67

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

Crop Condition

PERCENT

FOR WEEK ENDING MAY 19, 1991

WINTER WHEAT						
STATE	VP	P	F	G	EX	
AR	2	37	49	12	0	
CA	0	0	10	85	5	
CO	4	12	25	52	7	
GA	0	12	35	51	2	
ID	3	5	31	49	12	
IL	0	0	24	61	15	
IN	0	1	26	67	6	
KS	2	19	38	33	8	
MI	2	8	25	45	20	
MO	1	4	36	53	6	
MT	7	14	35	37	7	
NE	0	9	44	45	2	
NC	0	0	19	73	8	
OH	1	7	26	50	16	
OK	0	8	69	23	0	
OR	9	22	23	44	2	
SD	0	3	16	54	27	
TX	6	25	46	22	1	
WA	0	35	39	26	0	
19 STATE	2	15	40	37	6	
PREV WEEK	4	13	40	37	6	
PREV YEAR	1	3	25	56	15	

SPRING WHEAT						
STATE	VP	P	F	G	EX	
ID	5	7	27	46	15	
MN	1	1	17	69	12	
MT	0	1	21	65	13	
ND	0	0	10	80	10	
SD	0	0	6	71	23	
5 STATE	0	1	13	73	13	
PREV WEEK	NA					
PREV YEAR	1	4	24	64	7	

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 1.00 to 3.00 in. Temperatures 4 to 8° above normal.

Days suitable for fieldwork 1.6. Widespread showers delays plantings. Soil moisture 16% adequate, 84% surplus. Acreage intended for spring planting 83% prepared, 94% 1990, 95% avg. Fieldwork progress 98% behind, 2% on schedule. Corn 89% planted, 98% 1990, 97% avg.; 4% silked, 2% 1990, 2% avg.; 1% very poor, 5% poor, 30% fair, 47% good, 17% excellent. Sorghum 35% planted, 61% 1990, 45% avg.; 39% fair, 57% good, 4% excellent. Cotton 58% planted, 85% 1990, 88% avg.; 1% very poor, 30% poor, 61% fair, 8% good. Peanuts 65% planted, 90% 1990, 74% avg.; 40% fair, 60% good. Soybeans 9% planted, 27% 1990, 26% avg. Winter wheat 99% headed, 99% 1990, 98% avg.; 72% turning color, 74% 1990; 67% avg.; 3% harvested, 16% 1990, 14% avg.; 2% very poor, 21% poor, 42% fair, 35% good. First hay 13% harvested, 42% 1990, 34% avg. Pastures 96% of normal. Livestock 9% fair, 72% good, 19% excellent. Activities: Limited land preparation, planting; harvesting peaches; spraying fruit, pecan trees.

ALASKA: Warm daytime temperatures, mostly dry weather. High temperatures 2° below normal to 3° above normal. Lows 2° below normal to 3° above normal. Seasonal precipitation drier than normal at all stations except Homer.

Days suitable for fieldwork 7.0. Topsoil 14% short, 75% adequate, 11% surplus. Subsoil 6% short, 86% adequate, 8% surplus. Farm work progress on schedule to up to 2 weeks behind due to late thaw, early spring flooding, rain. Barley, oat seeding over 40% complete. Commercial potato planting 30% complete. Vegetable transplanting, seeding continued. Livestock good or better.

ARIZONA: Sunny skies, warmer early; windy, cooler 14th through the 18th. Temperatures 5° below to 2° above normal. Extremes 21°; 95° higher elevations, 48°; 97° desert. No rain.

Small grains heading, further advanced 100%, 98% 1990, 100% avg.; turning color 88%, 87% 1990, 86% avg.; small grains good statewide. Cotton 93% planted, 99% 1990, 98% avg. Activities: Emergence irrigations, fertilizer applications, last minute plantings. Alfalfa 75% good, 25% excellent; weed, insect infestations light; harvest moderate to active statewide. Apricot, peaches, dry onions, green beans for processing harvested west. Red, table, chipper potatoes, mixed vegetables, dry onions, peaches harvested central. Spring lettuce harvest began east. Valencia oranges, grapefruit harvested west, central.

ARKANSAS: Temperatures above normal, scattered showers statewide, heaviest northeast, southwest. Extremes 56°; 92°. Rainfall 0.04 to 3.45 in.

Days suitable for fieldwork 4. Soil moisture 39% adequate, 61% surplus. Activities: Planting cotton, rice, soybeans; cutting hay; working livestock. Oats heading 95%, 97% 1990, 95% avg. Corn planted 93%, 88% 1990, 94% avg. Disease problems in wheat remained medium to

heavy. Strawberry harvest continued. Pasture 6% fair, 82% good, 12% excellent. Livestock good.

CALIFORNIA: Two cold low pressure systems dropped into the State, spreading rain, mainly over northern, central areas. Temperatures cooled increasingly more below normal.

Field activities progressed until light rains 17th, 18th. Forage mixes green chopped. Oat hay cut, baled. Cotton planting virtually complete. Growth slowed, cool weather. Rice seeding progress slow; winds, cool temperatures. Herbicide applications continued. Planting corn, dry beans continued. Over wintered sugarbeets harvested, aphid treatments applied new crop fields. Alfalfa harvest normal; second cutting most areas. Normal weed, pest control continued, vineyards, orchards. Cool weather delayed stonefruit maturity. Almond orchards, treated, control peach twig borers, navel orangeworm. Avocado bloom neared completion. Cherry harvest, active, central, southern areas, San Joaquin Valley. Freeze damaged citrus trees, pruned, San Joaquin Valley, while southern areas citrus harvest progressed. Picking, desert table grapes began. Thinning continued, peach, plum, nectarine orchards. Harvest, desert peaches continued, some areas nearing completion. Persimmon trees started to bloom. Early variety plum harvest began, southern San Joaquin Valley. Asparagus harvest active, good quality. Broccoli heavy supply, generally good quality. Cauliflower heavy supply, variable quality. Iceberg lettuce supply moderate, variable quality. Potato harvest continued Hemet San Jacinto area. Strawberries, good supplies, central coast, variable quality. Sweet corn, sweet potato planting active. Tomato planting ongoing. Pasture excellent northwest, northeast, poor to fair south, fair to good north. Light supplemental feeding. Water supplies adequate.

COLORADO: Windy, mild weather prevailed on the 13th to 14th. Low pressure system brought scattered thunderstorms statewide on 15th to 16th. Fair weather on 17th, winds increased again with numerous thunderstorms on 19th. Above normal temperatures noted at lower elevations with near or below normal temperatures in the higher elevations.

Days suitable for fieldwork 5.7. Soil moisture 10% very short, 49% short, 39% adequate, 2% surplus. Barley seeding 91% complete, 95% 1990, 98% avg.; oats seeding 89%, 98% 1990, 94% avg.; summer potatoes planting 87%, 88% 1990, 91% avg.; fall potatoes planting 60%, 60% 1990, 76% avg.; corn planting 77%, 84% 1990, 89% avg. Winter wheat 4% very poor, 12% poor, 25% fair, 52% good, 7% excellent; barley 4% very poor, 11% poor, 15% fair, 45% good, 25% excellent. Winter wheat 8% headed, 8% 1990, 28% avg. Livestock good. Pasture, range feed fair.

FLORIDA: Temperatures 2 to 5° above normal. Extreme highs, mid 90s interior Peninsula; lows mid 60s most areas. Rainfall 1.00 to 4.00 in. Panhandle, central Peninsula; Big Bend, northeast, south less than 1.00 in.

Soil moisture adequate to surplus Panhandle, northern Peninsula; mostly adequate central, southern Peninsula. Some flooding Panhandle, northern Peninsula. Increased lodging, disease some wheat fields. Cotton, peanut planting, wheat harvest delayed. Planting soybeans underway. Corn, sugarcane, tobacco making good progress. Forage growth good with frequent rains. Pasture 15% fair, 60% good, 30% excellent. Cattle good to excellent north, Panhandle fair to good south. Rain most citrus areas, moisture adequate, limited irrigation. Shedding of new crop fruit about complete. Fruit remaining to be picked continuing to drop. Hot days, warm nights prevailed over major vegetable producing areas. Frequent showers, thunderstorms most areas. Localized hail, strong winds caused some damage. Harvest continued active central, gaining northern areas. Volume leaders: Potatoes, watermelons, tomatoes, sweet corn, cucumbers, peppers. Also good volume snap beans, celery, eggplant, radishes, squash. Digging Hastings potatoes past peak.

GEORGIA: Typical mid summer weather pattern across State. Scattered showers, thunderstorms across parts of State each day. Wide variation in rain less than 0.25 in.; 3.00 to 5.00 in. Heavier rains concentrated across north, eastern areas. Hottest temperatures mid 80s northeast Mountains, mostly low 90s elsewhere. Coolest temperatures low, mid 50s northeast to low, mid 60s extreme south.

Days suitable for fieldwork 3.5. Soil moisture 2% short, 49% adequate, 49% surplus. Corn development ahead of normal, 10% silked, 2% avg.; prospects very favorable. Cotton 3% poor, 26% fair, 71% good; plantings again delayed by showers. Sorghum 10% fair, 84% good, 6% excellent; 41% planted, 64% 1990, 51% avg. Peanuts 6% poor, 22% fair, 72% good; 56% planted, 92% 1990, 85% avg.; critically behind normal, latest planted crops recent years. Soybeans 19% fair, 79% good, 2% excellent. Tobacco 2% poor, 57% fair, 36% good, 5% excellent; too much rain, earliest fields beginning to bloom. Watermelons 2% poor, 13% fair, 63% good, 22% excellent; 98% planted, 98% 1990, 98% avg. Wheat 4% harvested for grain, 7% 1990, 6% avg.; harvest delayed by showers, diseases, lodging spreading. Rye 11% poor, 41% fair, 48% good. Apples 7% fair, 93% good. Peaches 23% fair, 77% good; 13% harvested, 23% 1990, 8% avg. Onions 1% very poor, 92% poor, 2% fair, 5% good; 92% harvested, 92% 1990. Hay 1% poor, 16% fair, 70% good, 13% excellent; harvest delayed by showers, fields too mature. Pasture 2% fair, 74% good, 24% excellent. Cattle, hogs good.

HAWAII: Weather favorable for crop development. Mostly sunny skies, light showers windward areas. Trade winds 10 to 25 mph, becoming southerly, light by weekend. Temperatures mid 60s to mid 80s. Rainfall none to 4.00 in.

Days suitable for fieldwork 7.0. Irrigation necessary many crop areas. Regular spray programs underway to control seasonal increase insect populations. Papaya production increased. Watermelon harvest underway. Sugar, pineapple planting, harvesting operations active.

IDAHO: Temperatures below normal across State. Precipitation above normal all, few areas of east.

Days suitable for fieldwork 4. Soil moisture

2% very short, 5% short, 78% adequate, 15% surplus. Winter wheat 57% not yet jointed, 39% jointed, 4% boot stage. Spring barley 88% planted, 100% 1990, 95% avg.; 62% emerged, 87% 1990, 81% avg. Oats 77% planted, 91% 1990, 89% avg.; 49% emerged, 78% 1990, 72% avg. Potatoes 57% planted, 81% 1990, 78% avg.; 7% emerged, 13% 1990, 12% avg. Sugarbeets 84% emerged, 89% 1990, 96% avg.; thinned 10%, 20% 1990, 25% avg. Dry peas 91% planted, 100% 1990, 98% avg.; 57% emerged, 92% 1990, 80% avg. Lentils 90% planted, 100% 1990, 100% avg.; 48% emerged, 92% 1990, 78% avg. Field corn 68% planted, 72% 1990, 79% avg. Dry beans 4% planted, 10% 1990, 12% avg. Replanting sugarbeets several locations. Rain delayed potato planting. Concern for seed potato decay in several locations. Blooming period fruit trees finished, beginning to set. Activities: Seeding, cultivating. Pasture, range 87% of normal. Hay, roughage supplies adequate.

ILLINOIS: Temperatures cooler than normal. Precipitation 0.80 to 2.00 in. across State, which was mostly above normal.

Days suitable for fieldwork 4.0. Soil moisture 2% short, 64% adequate, 34% surplus. Corn 6% fair, 71% good, 23% excellent. Corn height 4 in., most advanced 9 in. Winter wheat filled 10%, 8% 1990, 19% avg. Oats 9% fair, 81% good, 10% excellent. Sorghum planting 26%, 3% 1990, 39% avg. Pasture 98% of normal. Alfalfa first cutting 13%, 4% 1990, 20% avg.; 6% fair, 78% good, 16% excellent. Red clover cut 5%, 1% 1990, 12% avg.; 1% fair, 79% good, 20% excellent.

INDIANA: Temperatures 2 to 4° above normal. Lows mid 50s to mid 60s, highs upper 70s to near 85°. Precipitation 0.25 to over 2.00 in.

Days suitable for fieldwork 5.0. Topsoil 6% short, 76% adequate, 18% surplus. Subsoil 81% adequate, 19% surplus. Corn 62% emerged, 46% 1990, 57% avg. Oats 9 in. high, 6 in. 1990, 7 in. avg. Alfalfa hay 1st cutting 10%, 5% 1990, 16% avg. Pasture 96% of normal, 100% is defined as normal. Excellent progress in northern areas.

IOWA: Temperatures 5 to 7° above normal. Extremes 43°; 90°. Precipitation 0.41 to 5.37 in.; average 1.82 in. Major flooding north central on 17th.

Days suitable for fieldwork 3.8. Topsoil 1% short, 28% adequate, 71% surplus. Subsoil 2% short, 36% adequate, 62% surplus. Winter wheat 2% poor, 13% fair, 77% good, 8% excellent. Hay 1% poor, 14% fair, 68% good, 17% excellent. Pasture 2% poor, 17% fair, 73% good, 8% excellent. Oat 2% poor, 25% fair, 62% good, 11% excellent. Oats 99% sown, 100% 1990, 100% avg.; 95% emerged, 100% 1990, 99% avg. Corn 30% emerged, 39% 1990, 59% avg. Seedbed preparation 91% completed, 100% 1990, 97% avg. Fertilizer application 92% completed, 100% 1990, 98% avg. Livestock good. Low weight gains. Pneumonia in some livestock.

KANSAS: Temperatures 10° above normal over State. Rainfall fairly widespread; nearly 1.50 in. central, east central districts. Least amount precipitation 0.12 in. south central.

Days suitable for fieldwork 4.5. Surface 40% short, 56% adequate, 4% surplus. Subsurface 71% short, 28% adequate, 1% surplus. Wheat progress continues ahead schedule; short moisture in west, south central areas decreasing condition. Insect problems light. Wheat streak mosaic in central, west areas; powdery mildew, leaf rust, tan spot in east. Corn planting close to complete; cool weather slowing growth. About 30% alfalfa cut 1st time. Range, pastures adequate.

KENTUCKY: Afternoon highs, 90s mid week. Temperatures mid 70s, 5 to 10° above normal. Scattered thunderstorms, highest rainfall 0.50 to 1.00 in.

Days suitable for fieldwork 3.7. Soil moisture 7% short, 67% adequate, 26% surplus. Corn planting ahead of last year and average; 78% planted, 75% emerged. Wheat 95% headed, 93% 1990, 92% avg.; 27% fair, 66% good, 7% excellent. Soybeans planting ahead of last year, lags average. Tobacco plants less than 2 in. 14%, 2 to 4 in. 39%, greater than 4 in. 47%. Burley 20% set, 11% 1990, 13% avg. Hay growth good, cutting delayed by showers. Pastures excellent. Fruit prospects good.

LOUISIANA: Temperatures 1.5 to 5.6° above normal. Extremes 62°; 93°. Rainfall 1.18 in. north central to 3.29 in. south central.

Days suitable for fieldwork 1.8. Soil moisture 12% adequate, 88% surplus. Spring plowing 79%, 91% 1990, 96% avg. Corn 10% very poor, 32% poor, 45% fair, 13% good; 99% planted, 100% 1990, 100% avg.; 98% emerged, 100% 1990, 98% avg.; 1% silked, 1% 1990, 2% avg. Cotton 27% emerged, 93% 1990, 76% avg. Planting progressed rapidly, a few days of good weather, northeast, where 75% of acreage is located. Hay 10% first cutting, 31% 1990, 35% avg. Hay rotting in fields continued due to wet conditions. Peaches 9% poor, 73% fair, 18% good; 2% harvested, 1% 1990, 1% avg. Rice 9% poor, 60% fair, 31% good. Water weevils, problem, southwest. Sorghum 22% very poor, 23% poor, 55% fair; 55% emerged, 77% 1990, 67% avg. Soybeans 1% emerged, 23% 1990, 15% avg. Sweet potatoes 13% planted, 21% 1990, 26% avg. Sugarcane 2% poor, 74% fair, 24% good. Rust disease, nutria damage, southeast. Wheat 22% very poor, 49% poor, 28% fair, 1% good; 98% headed, 100% 1990, 100% avg.; 91% turning color, 93% 1990, 88% avg.; 14% harvested, 21% 1990, 17% avg. Harvesting tedious, slow, wheat wet, lodged. Vegetables 14% very poor, 44% poor, 37% fair, 5% good. Pastures 23% poor, 29% fair, 47% good, 1% excellent. Livestock 6% poor, 39% fair, 49% good, 6% excellent.

MARYLAND & DELAWARE: **MARYLAND:** Precipitation 0.35 in. Temperature 71.1°, normal 62.9°. Extremes 42°; 92°.

Days suitable for fieldwork 6.1. Topsoil 5% very short, 33% short, 62% adequate. Subsoil 5% short, 95% adequate. Small grains good. Winter wheat 89% headed, 76% 1990, 66% avg. Corn 83% planted, 77% 1990, 71% avg. Soybeans 21% planted, 16% 1990, 10% avg. Sorghum 11% planted, N/A 1990, N/A avg. Tobacco 26% transplanted, 38% 1990, 17% avg. Sweet corn 57% planted, 64% 1990, 60% avg. Watermelons 74% planted, 78% 1990, 78% avg. Cantaloupes 68% planted, 75% 1990, 66% avg. Cucumbers 62% planted, 52% 1990, 69% avg. Lima beans 47% planted, 45% 1990, 28% avg. Snap beans 65% planted, 52% 1990, 44% avg. Tomatoes 84% planted, 82% 1990, 69% avg. Other hay first cut 19% complete, 14% 1990, 11% avg. Alfalfa hay first cut 46% complete, 23% 1990, 26% avg. Hay supplies adequate. Pasture good. Strawberries 19% harvested, 13% 1990, N/A avg. Activities: Soil preparation; planting corn, soybeans, sorghum, vegetables, oats, tobacco; harvesting hay, strawberries; repairing fence; hauling manure; spreading fertilizer; maintaining machinery; caring for livestock.

DELAWARE: Precipitation 0.15 in. Temperature 71.5°, normal 63.4°. Extremes 45°; 92°.

Days suitable for fieldwork 6.7. Topsoil 67% short, 33% adequate. Subsoil 17% short, 83% adequate. Small grains good. Corn 90% planted,

90% 1990, 77% avg. Soybeans 12% planted, 8% 1990, 8% avg. Sorghum 29% planted, N/A 1990, N/A avg. Sweet corn 52% planted, 63% 1990, 71% avg. Watermelons 76% planted, 70% 1990, 49% avg. Cantaloupes 58% planted, 45% 1990, 47% avg. Cucumbers 27% planted, 58% 1990, 43% avg. Snap beans 29% planted, 47% 1990, 41% avg. Tomatoes 50% planted, 59% 1990, 60% avg. Other hay first cut 41% complete, 50% 1990, 37% avg. Alfalfa hay first cut 43% complete, 38% 1990, 42% avg. Hay supplies adequate. Pasture good. Activities: Soil preparation; planting corn, soybeans, sorghum, vegetables; harvesting hay, strawberries; repairing fence; hauling manure; spreading fertilizer; maintaining machinery; caring for livestock.

MICHIGAN: Temperature data not available.

Days suitable for fieldwork 5. Soil moisture 5% short, 55% adequate, 40% surplus. Corn 65% planted, 70% 1990, 80% avg. Oats 95% planted, 98% 1990, 98% avg. Potatoes 70% planted, 65% 1990, 65% avg. Soybeans 25% planted, 15% 1990, 25% avg. Sugarbeets 95% planted, 99% 1990, 100% avg. Winter wheat 1% headed, 0% 1990, 1% avg.; 2% very poor, 8% poor, 25% fair, 45% good, 20% excellent. Pasture 95% of normal. Activities: Hauling manure, fertilizing, spraying fields, orchards, tilling, planting.

MINNESOTA: Temperatures 5 to 11° above normal. Extremes 26°; 93°. Precipitation 0.03 to 1.86 in. Greatest weekly total 2.70.

Days suitable for fieldwork 4.0. Topsoil 4% short, 60% adequate, 36% surplus. Subsoil 4% very short, 18% short, 51% adequate, 27% surplus. Spring wheat 99% planted, 96% 1990, 87% avg.; 90% emerged, 83% 1990, 73% avg.; 0% jointing, 2% 1990, 2% avg. Oats 98% planted, 96% 1990, 92% avg.; 79% emerged, 83% 1990, 80% avg.; 2% jointing, 3% 1990, 3% avg. Barley 98% planted, 94% 1990, 85% avg.; 81% emerged, 81% 1990, 68% avg.; 1% jointing, 5% 1990, 2% avg. Field corn 66% ground prepared, 92% 1990, 88% avg.; 63% acreage planted, 84% 1990, 81% avg.; 14% emerged 26% 1990, 37% avg. Soybeans 37% ground prepared, 65% 1990, 68% avg.; 18% acreage planted, 32% 1990, 44% avg.; 1% emerged, 2% 1990, 7% avg. Potatoes 60% planted, 62% 1990, 61% avg. Sugarbeets 93% planted, 95% 1990, 90% avg. Dry beans 26% planted, 37% 1990, 41% avg. Flax 64% planted, 50% 1990, 45% avg. Sunflowers 39% planted, 48% 1990, 44% avg. Sweet corn 19% planted, 56% 1990, 53% avg. Green peas 53% planted, 79% 1990, 81% avg.

MISSISSIPPI: Temperature 77°, 5° above normal. Rainfall 2.09 to 0.95 in. above normal. Mostly wet statewide. Soil temperature 79°.

Days suitable for fieldwork 2.6, 3.7 1990, 3.9 avg. Soil moisture 21% adequate, 50% surplus, 29% excessive. Corn 64% planted, 87% 1990, 94% avg.; 62% emerged, 84% 1990, 87% avg.; 7% very poor, 22% poor, 55% fair, 16% good. Cotton 33% planted, 91% 1990, 85% avg.; 14% emerged, 70% 1990, 71% avg. Peanuts 34% planted, 42% 1990, 55% avg. Rice 27% planted, 76% 1990, 92% avg.; 15% emerged, 44% 1990, 74% avg. Sorghum 40% planted, 64% 1990, 72% avg.; 39% emerged, 55% 1990, 59% avg. Soybeans planted 4%, 22% 1990, 20% avg.; emerged 2%, 13% 1990, 11% avg. Sweet potatoes 21% planted, 27% 1990, 42% avg. Watermelons 81% planted, 84% 1990, 82% avg. Wheat mature 58%, 23% 1990, 21% avg.; harvested 3%, 0% 1990, 0% avg.; 24% very poor, 47% poor, 22% fair, 7% good. Hay harvested 6%, 21% 1990, 20% avg. Peaches harvested 2%; 22% poor, 41% fair, 33% good, 4% excellent. Livestock 9% poor, 18% fair, 51% good, 22% excellent. Pasture 87% of normal.

Activities: Planting cotton, corn, rice, some soybeans.

MISSOURI: Temperatures 3° above normal Bootheel to 11° above normal central, northeast. Precipitation 1.30 in., less than 0.50 in. southwest to over 2.00 in. south central.

Days suitable for fieldwork 2.0. Topsoil 1% short, 36% adequate, 63% surplus. Ground worked at least once for spring crops 87%, 75% 1990, 93% avg. Corn planting by district ranges 49% north central to 86% or more west central, southwest, southeast. Single crop soybean plantings vary 6% or less north central, northeast, southeast. Sorghum planting 3% north central, northeast to 39% southwest. Wheat headed less than 70% northwest, north central to virtually complete in southern two thirds. Alfalfa hay first cutting 20%, 4% 1990, 30% avg. Other hay cut 4%, 1% 1990, 11% avg. Pasture 1% poor, 9% fair, 75% good, 15% excellent.

MONTANA: Wet all locations, 0.06 to 2.15 in. Most areas more than 0.50 in. Precipitation above normal since April 1. Temperatures 1 to 6° above normal.

Days suitable for fieldwork 3.9. Topsoil 11% short, 77% adequate, 12% surplus. Subsoil 37% short, 58% adequate, 5% surplus. Spring wheat 1% poor, 21% fair, 65% good, 13% excellent. Barley 1% poor, 22% fair, 65% good, 12% excellent. Oats 3% poor, 19% fair, 66% good, 12% excellent. Sugarbeets 1% very poor, 2% poor, 17% fair, 69% good, 11% excellent. Barley planted 79%, 92% 1990, 88% avg. Corn planted 60%, 43% 1990, 50% avg. Dry beans planted 28%, 51% 1990, 61% avg. Oats planted 73%, 92% 1990, 85% avg. Potatoes planted 12%, 27% 1990, 35% avg. Sugarbeets planted 96%, 100% 1990, 98% avg. Pasture, range feed 85%. Cattle, calves moved to summer pastures 38%. Sheep, lambs moved 35%.

NEBRASKA: Temperatures 4 to 6° above normals. Precipitation 0.13 to 4.22 in.

Days suitable for fieldwork 4.9. Topsoil 4% short, 73% adequate, 23% surplus. Subsoil 44% short, 55% adequate, 1% surplus. Wheat 9% poor, 44% fair, 45% good, 2% excellent; 88% jointed, 96% 1990, 93% avg.; 20% headed, 5% 1990, 24% avg. Corn 94% planted, 88% 1990, 90% avg.; 44% emerged, 38% 1990, 48% avg. Sorghum 28% planted, 9% 1990, 27% avg.; 2% emerged, 2% 1990, 6% avg. Soybeans 30% planted, 16% 1990, 32% avg.; 7% emerged, 2% 1990, 8% avg. Alfalfa 1% poor, 29% fair, 56% good, 14% excellent. Pasture, range 85% of normal.

NEVADA: Temperatures 3 to 9° below normal Extremes 19°; 92°. Precipitation none to 1.74. Precipitation mostly north, central areas. Heavy snows fell in some areas.

Livestock movement continues. Activities: Maintenance, feeding, care of livestock, fertilizing.

NEW ENGLAND: Precipitation 0.30 to 1.25 in. Temperatures high 40s to low 50s northern Maine, high 50s to low 60s elsewhere north, low to high 60s south; normal northern Maine, 4° to 9° above normal elsewhere. Maximum temperatures low 70s north to low 90s south; minimum temperatures low 20s north to mid 40s south.

Days suitable for fieldwork 6.2. Soil moisture 3% very short, 15% short, 72% adequate, 10% surplus. Grazing availability 1% very short, 12% short, 58% adequate, 29% surplus. Fieldwork 4 days ahead of schedule. Maine potatoes 45% planted, 57% 1990, 47% avg.; good.

Rhode Island potatoes 63% planted, 60% 1990, 78% avg.; 10% emerged, 5% 1990, 19% avg.; good. Connecticut River Valley potatoes 60% planted, 65% 1990, 78% avg.; good. Maine oats 65% planted, 50% 1990, 63% avg.; good. Field corn 44% planted, 30% 1990, 36% avg.; 14% emerged, 10% 1990, 14% avg.; good. Sweet corn 49% planted, 35% 1990, 42% avg.; 24% emerged, 21% 1990, 24% avg.; good. Hay good. Connecticut tobacco 45% planted, good. Activities: Corn planting, seeding, manure, fertilizer spreading, fence building, spraying fruit trees.

NEW JERSEY: Temperatures above normal. Extremes 31°; 92°. Rainfall 0.40 in. north, 0.25 in. central, 0.01 in. south. Heaviest 24 hour total 0.71 in. on 13th, 14th. Estimated soil moisture percent field capacity, averaged 82% north, 68% central, 52% south. Four inch soil temperature 65° north, 67° central, south.

Warm weather advanced crop growth. Some frost damage to crops occurred on 20th. Fruit sizing well; most sets heavy. Field corn planting very active. Early fields up 6 inches. Soybean planting general. Barley, rye in full head. Wheat heads continued to develop. Some rye cut for straw. Hay making general. Pasture growth very good.

NEW MEXICO: Warm temperatures southern, eastern districts; 4 to 8° above normal. Highs upper 90s in southeastern part of the State, while central Rio Grande valleys recorded their first readings in the 90s so far this spring. Precipitation was light except over the central, northern mountains where afternoon thundershowers developed during the late week.

Days suitable for fieldwork 6.6. Soil moisture 83% short, 17% adequate. Alfalfa 16% poor, 44% fair, 40% good. Cotton 86% fair, 14% good. Corn 38% fair, 62% good. Irrigated wheat 6% poor, 70% fair, 24% good. Dryland wheat 34% very poor, 53% poor, 13% fair. 98% heading reported. Chile, lettuce, onions good. Apple fruit set light across State due to past freezes. Cattle, sheep poor to good. Range, pasture 59% of normal, ranging 20% to 110%.

NEW YORK: Very warm. Temperatures 6 to 10° above normal. Dry except for showers, thunderstorms on the 17th. Rainfall 0.50 in. with locally inch plus amounts. Extremes 29°; 91°.

Days suitable for fieldwork 6.1. Soil moisture adequate. Warm, dry weather permitted outside activities to progress rapidly. Pasture condition was 93% of normal. Hay condition good, wheat good to excellent. Corn planting reached 48% complete, ahead of last years 27%, average of 37%. Oats 89% seeded, 80% 1990, 79% avg. Excellent pollination conditions for fruit during week. Early blooming fruit varieties in the Lake Ontario region reached petal fall stage. Pears, sweet cherries progressed to shuck split stage. Vegetable planting was very active under ideal conditions. Early crops such as asparagus, spinach, scallions were being harvested. Some strawberries were being picked.

NORTH CAROLINA: Temperatures 5 to 8° above normal across the State. Precipitation none to 3.97 in.

Days suitable for fieldwork 5.1. Soil moisture 1% very short, 26% short, 58% adequate, 15% surplus. Crop condition: Wheat 19% fair, 73% good, 8% excellent; oats 17% fair, 76% good, 7% excellent; barley 18% fair, 78% good, 4% excellent; rye 15% fair, 82% good, 3% excellent; pasture 1% poor, 13% fair, 65% good, 21%

excellent; tobacco 17% fair, 77% good, 6% excellent; corn 1% poor, 23% fair, 70% good, 6% excellent; cotton 12% fair, 83% good, 5% excellent; hay 1% poor, 14% fair, 74% good, 11% excellent; irish potatoes 8% fair, 84% good, 8% excellent; peaches 5% fair, 79% good, 16% excellent; truck crops 15% fair, 82% good, 3% excellent. Cotton planted 92%; peanuts planted 81%; sorghum planted 35%; soybeans planted 25%; burley tobacco transplanted 24%; flue cured tobacco transplanted 95%; sweet potatoes transplanted 22%. Hay first cutting 46%. Activities: Planting corn, cotton, soybeans, peanuts; sorghum, truck crops; land preparation; cutting hay; transplanting tobacco.

NORTH DAKOTA: Mostly warm, windy with scattered thundershowers. Temperatures 7° above normal southwest to 13° above normal northeast, east central, southeast. Extremes 34° south central; 92° southeast. Precipitation 0.49 in. northeast to 1.54 in. southeast.

Days suitable for fieldwork 5.5. Topsoil supplies decreased slightly while subsoil moisture supplies improved. Both improved over 1991. Topsoil 10% short, 88% adequate, 2% surplus. Subsoil 11% very short, 64% short, 25% adequate. Spring wheat 10% fair, 80% good, 10% excellent; durum wheat 9%, 79%, 12%; oats 20%, 72%, 8%; barley 5%, 87%, 8%; winter wheat 27%, 61%, 12%. Crop development near average. Hard red spring wheat 90% planted, 66% emerged and beyond; 92%, 64% 1990; 87%, 58% 5 year (1986-90) avg. Durum wheat 75% planted, 39% emerged and beyond; 83%, 42% 1990; 78%, 43% avg. Oats 85% planted, 53% emerged and beyond; 91%, 63% 1990; 86%, 57% avg. Barley 93% planted, 71% emerged and beyond; 94%, 66% 1990; 88%, 60% avg.; winter wheat 56% emerged thru stool, 44% jointing and beyond; 75%, 25% 1990, 56%, 44% avg. Corn 56% planted, 54% 1990, 50% avg.; flax 45%, 36% 1990, 34% avg.; potatoes 58%, 41% 1990, 55% avg.; sugarbeets 100%, 100% 1990, 93% avg.; soybeans 42%, 26% 1990, 27% avg.; dry beans 22%, 12% 1990, 17% avg.; sunflower 14%, 14% 1990, 15% avg. Post emerged spraying completed for broadleaf weeds 4%, wild oats 9%. Pasture conditions improved slightly to 70% of normal, furnished 67% roughage requirements. Stockwater supplies improved to 9% very short, 34% short, 57% adequate.

OHIO: Temperatures above normal with highs reaching into the 90s on several days breaking previous record highs in some locations. Virtually no precipitation except from isolated thunderstorms.

Days suitable for fieldwork 6.3. Soil moisture 20% short, 74% adequate, 6% surplus. Rain needed in some areas to germinate seeds, activate chemicals. Activities: Planting, applying sprays, fertilizers, harvesting hay. Corn emerged on 62% of acreage, 57% 1990, 51% avg. Crusting becoming a problem in locally dry areas. Soybean emergence 28%, 12% 1990, 18% avg. Flea beetles in some fields. Winter wheat good to excellent; sunny weather limiting disease development. Oat emergence 95% complete, 88% 1990, 85% avg. First cut alfalfa 17%, 3% avg. Other hay first cut 8% versus none last year and average. Some alfalfa stands cut early to control weevil infestations. Ideal conditions prevailed for mowing, curing hay. Processing tomato planting 52% complete, 19% 1990, 40% avg. Sugarbeet planting 99% complete. Potato planting 80% complete, 62% 1990, 69% avg. Strawberry plants blooming; picking 7 to 10 days away. Tree fruits good to excellent.

OKLAHOMA: Temperatures 4 above normal south central to 7° above normal northeast. Precipitation none southwest to 0.73 in. northeast.

Days suitable for fieldwork 5.7. Topsoil 27% short, 54% adequate, 19% surplus. Subsoil 24% short, 76% adequate. Wheat 8% poor, 69% fair, 23% good; 97% heading, 91% 1990, 96% avg.; 47% soft dough, 13% 1990, 41% avg. Wheat fair to good. Insect activity light. Corn 99% seedbed prepared, 96% 1990, 100% avg.; 88% planted, 82% 1990, 96% avg.; 76% up to stand, 68% 1990, 82% avg. Sorghum 91% seedbed prepared, 81% 1990, 77% avg.; 17% planted, 5% 1990, 14% avg.; 10% up to stand, 1% 1990, 6% avg. Soybeans 88% seedbed prepared, 56% 1990, 82% avg.; 44% planted, 6% 1990, 27% avg.; 15% up to stand, 0% 1990, 8% avg. Peanuts 71% seedbed prepared, 61% 1990, 90% avg.; 9% planted, 23% 1990, 28% avg.; 1% up to stand, 0% 1990, 6% avg. Cotton 95% seedbed prepared, 70% 1990, 91% avg.; 32% planted, 16% 1990, 24% avg.; 17% up to stand, 4% 1990, 13% avg. Alfalfa 67% first cutting, 52% 1990, 63% avg. Pasture 89%. Cattle good, marketings average, prices mixed.

OREGON: Temperatures 4 to 8° below normal south central, central; 2 to 6° below, rest of State. Rainfall 3.50 in. Willamette Valley; 0.25 to 1.00 other areas. Astoria lowest with 0.22 in., Eugene heaviest with 3.59 in. Flooding reported Grant, Union, Umatilla Co.; small streams, creeks all northeastern areas.

Soil moisture 23% short, 62% adequate, 15% surplus. Barley 84% planted, 91% 1990, 95% avg. Wet, hampered fieldwork. Alfalfa cutting week away, Douglas Co; clover cutting soon, Marian, Polk, Yamhill Co. Field corn planting underway Malheur Co., continues lag; sugarbeet thinning underway. Orchard bloom complete south valley; fruit set mostly good. Brown rot, freeze damage, peaches; prune set light, Douglas Co. Blackheaded fireworm larvae, some cranberry bogs, Coos Co. Early snap beans coming up, Benton County; onions planted, Malheur Co. Livestock good to excellent, all areas; pastures, ranges improved, still variable, east. Stockwater short, Malheur Co. Statewide range, pasture 1% very poor, 6% poor, 11% fair, 69% good, 13% excellent.

PENNSYLVANIA: Warm, dry across State. Temperature 69°, 12° above normal. Extremes 29°; 91°. Precipitation 0.48 in., 0.34 in. below normal.

Days suitable for fieldwork 6. Soil moisture 19% short, 78% adequate, 3% surplus. Plowing 89% complete, 87% 1990, 86% avg. Corn 64% planted, 52% 1990, 51% avg. Soybeans 18% planted, 12% 1990, 19% avg. Oats 95% planted, 93% 1990, 94% avg. Potatoes 72% planted, 68% 1990, 74% avg. Tobacco beds 100% planted, 100% 1990, 100% avg. Barley 21% pre boot, 27% 1990, 28% avg.; 21% boot, 24% 1990, 26% avg.; 58% heading or headed, 49% 1990, 46% avg. Wheat 30% pre boot, 49% 1990, 52% avg.; 45% boot, 38% 1990, 37% avg.; 25% heading or headed, 13% 1990, 11% avg. Wheat 5% poor, 17% fair, 57% good, 21% excellent. Oats 4% poor, 17% fair, 56% good, 23% excellent. Hay stands mostly good. Alfalfa first cutting 14% complete, 3% 1990, 5% avg. Quality of hay made 9% poor, 20% fair, 71% good. Feed from pastures 33% fair, 67% good. Peaches 4% pre pink, 2% 1990, 3% avg.; 4% pink, 5% 1990, 5% avg.; 92% full bloom or past, 93% 1990, 92% avg. Cherries 2% pre pink, 1% 1990, 4% avg.; 4% pink, 2% 1990, 5% avg.; 94% full bloom or past, 97% 1990, 91% avg. Apples 3% pre pink, 5% 1990, 7% avg.; 8% pink, 8% 1990, 9% avg; 89% full bloom or past, 87% 1990, 84% avg. Activities: Spring plowing, planting; repairing fence; hauling manure; spreading fertilizer; maintaining machinery; caring for livestock.

PUERTO RICO: Rainfall 1.53 in. was 0.02 in. below normal. Highest weekly total 5.24 in. at Arecibo Ionospheric Observatory, 4.85 in. Pico Del Este Luquillo, 4.63 in. at Adjuntas Aes. Highest 24 hour total 3.14 in. at Adjuntas Aes. Divisional temperature 79 to 80° on the Coasts, 74 to 76° in Interior with mean station temperature 65.5° at Pico Del Este Luquillo to 82.5° at Guayama. Extremes 60°; 92°.

SOUTH CAROLINA: Temperatures 5° above normal. Rainfall 1.20 in. northeast to 2.40 in. central. Days suitable for fieldwork 4.4. Soil moisture 2% short, 87% adequate, 11% surplus. Cotton 19% fair, 81% good; 75% planted, 81% 1990, 81% avg. Peanuts fair to good; 86% planted, 81% 1990, 69% avg. Watermelons fair to good; 89% planted, 89% 1990, 91% avg. Cantaloupes fair to good; 84% planted, 85% 1990, 86% avg. Peaches good. Cucumbers fair to good; 89% planted, 92% 1990, 91% avg. Snap beans fair to good; 71% planted, 73% 1990, 81% avg. Barley fair to good; 50% turning color, 68% 1990, 50% avg.; 9% ripe, 16% 1990, 10% avg. Oats fair to good; 96% headed, 100% 1990, 97% avg.; 74% turning color, 77% 1990, 57% avg.; 28% ripe, 24% 1990, 14% avg.; 2% harvested, 2% 1990, 2% avg. Rye fair to good; 72% turning color, 68% 1990, 59% avg.; 20% ripe, 23% 1990, 15% avg. Wheat fair to good; 77% turning color, 81% 1990, 57% avg.; 20% ripe, 26% 1990, 15% avg.; 1% harvested, 1% 1990, 3% avg. Grain hay fair to good; 53% harvested, 71% 1990, 61% avg. Pastures fair to good.

SOUTH DAKOTA: Warm, turned to cloudy with steady temperatures. Extremes 31°; 92°. Thunderstorms dropped plentiful precipitation across the State. North central, east central, south central, southwest, Black Hills 2.00 in. of rain. South central up to 4.70 in., unofficial reports up to 7.50 in. Localized heavy rains caused flash flooding in many areas. Other areas received between 0.50 to 1.50 in. Days suitable for fieldwork 3.6. Topsoil 1% short, 86% adequate, 13% surplus. Subsoil 20% short, 76% adequate, 4% surplus. Rye 2% poor, 10% fair, 49% good, 39% excellent. Oats 1% very poor, 11% fair, 65% good, 23% excellent. Barley 1% poor, 8% fair, 75% good, 16% excellent. Livestock 2% fair, 73% good, 25% excellent. Pasture still improving, 92% of normal. Stockwater 1% very short, 15% short, 80% adequate, 4% surplus. Feed 2% very short, 9% short, 80% adequate, 9% surplus.

TENNESSEE: High pressure dominated week, however series of upper level disturbances produced scattered thundershowers statewide. Above normal temperatures statewide; highs 80s, lows 60s. Rainfall above normal west, Plateau; below normal east.

Days suitable for fieldwork 3.4. Soil moisture 56% adequate, 44% surplus. Corn 52% planted, 68% 1990, 84% avg.; 5% very poor, 13% poor, 30% fair, 50% good, 2% excellent. Cotton 18% planted, 58% 1990, 84% avg.; 19% very poor, 35% poor, 34% fair, 12% good. Sorghum 14% planted, 28% 1990, 54% avg.; 7% very poor, 11% poor, 40% fair, 42% good. Soybeans 2% planted, 4% 1990, 19% avg. Tobacco 28% transplanted, 28% 1990, 24% avg.; 3% poor, 18% fair, 76% good, 3% excellent. Wheat 100% headed, 96% 1990, 98% avg.; 10% poor, 49% fair, 41% good. Alfalfa 34% 1st cutting, 48% 1990, 62% avg. Hay 1% very poor, 2% poor, 11% fair, 71% good, 15% excellent. Cattle 3% fair, 76% good, 21% excellent. Pastures 1% fair, 55% good, 44% excellent. Little fieldwork possible in major

producing regions due to excellent excessive moisture.

TEXAS: Abundant tropical air set stage for numerous heavy rains East Texas, Coastal Plains again this week. Rains occurred central, western portions of State. Amounts rather light, scattered compared with eastern side of State. Rather warm conditions dominated. Cloudiness in rain areas kept temperatures closer to normal. Departures from normal positive over East Texas, Upper Coast, Coastal Bend, and Lower Valley. Greatest departure of almost +2.00 in. noted in Lower Valley. Southeast Texas had departure of +1.32 in. In drier parts of State, departures negative. Rolling Plains showed rain departures of -.80 in. Temperature departures all above normal for week except in heaviest rain areas of Lower Valley, South Texas, and Coastal Bend.

Crops: Wheat, oat harvest continued off and on across eastern half of State. Scattered showers, wet field conditions the delaying factor for most areas. Wheat 55% of normal compared with 72% 1990; 3% harvested, 3% 1990, 3% avg. Corn 85% of normal, unchanged from last year; 13% silked, 4% 1990, 12% avg. Sorghum fields continued good progress across State. However, excessive wet conditions were affecting fields in wetter portions of State. Heading, pollination common most fields South Texas, some earlier planted fields coastal areas. Sorghum 86% of normal compared with 82% 1990. Sorghum 13% headed, 8% 1990, 11% avg. Cotton planting, pre planting activities continued on Plains last week as recent moisture aided planting operations. Producers other areas of State would like to see some warmer, drier weather to stimulate better growth. Statewide cotton condition is rated at 89% of normal compared with 86% last year. Cotton 6% squared, 8% 1990, 7% avg. Rice stands continued improvement last week. Many Upper Coastal producers applying herbicides. Statewide rice condition is rated at 75% of normal compared with 86% last year. Rice 76% emerged, 75% 1990, 92% avg. Soybean planting in Blacklands delayed by more rain. However, existing stands continued excellent growth. Peanut planting continued on Low Plains, Blacklands producers await drier weather. Limited planting underway in Hill Country, cultivating activities, herbicide applications common in Central Texas when weather permitted. Other Field Crops: Oats 11% harvested, 3% 1990, 6% avg. Peanuts 8% planted, 7% 1990, 14% avg. Soybeans 33% planted, 39% 1990, 32% avg. Sugarbeets 100% planted, 100% 1990, 100% avg. Sunflowers 16% planted, 24% 1990, 13% avg. Peach harvest in South Texas winding down. Harvest other areas of State remained steady. Yields continued very good. Pecan tree spraying continued as weather permitted. Moisture conditions for trees appeared to be good.

Commercial Vegetables: Rio Grande Valley, melon harvest slowed by wet weather. Pepper harvest started, progress slowed by weather. Yields looked good. Watermelons setting good crop. Grasshoppers becoming problem to some fields. East Texas, harvest of peppers, green beans, squash getting underway, wet conditions hampered progress. Insects becoming increasing concern. High Plains, potato, onion, early carrot crops continued good progress. Irrigated tomato plants doing great. Some cabbage fields sprayed for insects. Trans Pecos, tomato plants setting blooms. Onion harvest in full swing. Chili plants continued good progress.

Range and Livestock: Range, pasture improvement most areas of State. Plains, Trans Pecos continued declining. Horn flies remained increasing nuisance to livestock. Range,

pasture 2% very poor, 12% poor, 37% fair, 35% good, 14% excellent.

UTAH: Temperature maximums 7° less than normal, minimums 3° less than normal. Precipitation moderate to heavy in all divisions, except the southeast, light.

Days suitable for fieldwork 4.3. Soil moisture 40% short, 37% adequate, 23% surplus. Winter wheat 41% jointed, 64% avg., 14% booted, 45% 1990, 39% avg., height 9.8 in., 16.3 in. 1990, 13 in. avg. Spring wheat 36% jointed. Barley 17% jointed, 48% avg. Oats 76% emerged, 78% avg. Corn 46% planted, 75% avg.; 11% emerged, 44% 1990, 40% avg. Potatoes 65% planted. Alfalfa height 9.6 in., 14 in. avg. Alfalfa first cutting getting underway in southern areas. Cattle moved to summer range 14%, 39% 1990, 32% avg. Sheep moved to summer range 13%, 33% 1990, 29% avg. Range, pasture mostly fair to good. Most areas reporting crop progress 1 to 3 weeks behind normal.

VIRGINIA: Temperatures 8 to 10° above normal. Extremes 46°; 94°. Precipitation 0.10 to 0.30 in.

Days suitable for fieldwork 5.6. Topsoil 5% very short, 33% short, 52% adequate, 10% surplus. Corn 84% planted, 80% 1990, 69% avg. Corn 4% poor, 33% fair, 56% good, 7% excellent. Soybeans 23% planted, 21% 1990, 9% avg. Peanuts planted 96% completed, 97% 1990, 81% avg. Cotton planting nearly completed, 100% 1990, 81% avg. Flue tobacco 84% transplanted, 90% 1990, 31% avg. Fire tobacco 45% transplanted, 50% 1990, 24% avg. Burley tobacco 16% transplanted, 7% 1990, 7% avg. Sun tobacco 75% transplanted, 95% 1990, 50% avg. Wheat 7% poor, 33% fair, 52% good, 8% excellent. Barley 8% poor, 31% fair, 52% good, 9% excellent. Spraying for cereal leaf beetles. Apples, peaches continue to be mostly good. Potato good. Irrigation active in potatoes. Fresh market vegetable planting active. Strawberry harvest heavy. Pastures, alfalfa, other hay mostly good. Hay harvest in full swing.

WASHINGTON: Temperatures normal to 7° below normal east; 3° above normal to 5° below normal west. Precipitation none to 1.58 in. east; 0.07 to 0.70 in. west.

Days suitable for fieldwork 5.5. Soil moisture 63% short, 37% adequate. Hay, other roughage 11% short, 89% adequate. Range, pasture 10% very poor, 31% poor, 48% fair, 10% good, 1% excellent. Wheat 35% poor, 39% fair, 26% good. Barley 9% poor, 72% fair, 19% good. Potato 100% good. Dry bean 100% excellent. Corn 56% fair, 44% good. Spring wheat planted 99%; emerged 94%. Spring barley planted 99%; emerged 91%. Potatoes planted 98%; emerged 68%. Dry peas planted 100%. Green peas planted 100%. Dry beans planted 24%. Corn planted 61%. Alfalfa hay, 1st cutting 12%. Most spring crops are one to three weeks behind normal due to the cool spring temperatures. Spring planting of wheat, barley is nearly completed in eastern counties. Winter wheat in Douglas County was beginning to

show moisture stress, strong winds, drying top soils even deeper. Fertilizer applications, starting on summer fallow fields. Heading of grain crops was delayed due to cool temperatures. Spring wheat in Adams County reached 5 leaf stage. Fireblight was infesting pear trees in lower Yakima Valley. Cold nights were still a concern to apple growers. Transplanting of peppers, cucumbers, melons, other warm season vegetables were starting in central areas on irrigated land. Harvest continued of lettuce, radish, rhubarb, asparagus crops. First cutting of alfalfa continued. Range and pastures were growing slowly in eastern counties. Green chopping increased in western counties on fields having good grass growth. Livestock doing well on spring ranges, pastures.

WEST VIRGINIA: Temperature 70°. Extremes 47°; 93°. Precipitation 0.73 in.

Days suitable for fieldwork 5.3. Soil moisture 24% short, 72% adequate, 4% surplus. Wheat, barley good. Corn 56% planted, 36% emerged. Oats excellent, 97% planted, 75% emerged. Gardens, 26% fair, 70% good, 4% excellent; 62% planted, 40% emerged. Tobacco good, 100% beds seeded, 94% emerged. Hay 8% fair, 86% good, 6% excellent. Apples and Peaches good. Pastures 9% fair, 70% good, 21% excellent; 100% of normal. Cattle, sheep good. Hay supplies 70% adequate, 30% surplus. Other feed adequate. Activities: General maintenance, fencing, plowing, cutting hay, planting corn.

WISCONSIN: Temperature 62°, 5° above normal. Extremes 23°; 94°. Precipitation 0.40 to 1.00 in. Days suitable for fieldwork 5.1. Soil moisture 5% short, 80% adequate, 15% surplus. Pasture 86% of normal, 83% 1990, 79% avg. General condition of crops 2% poor, 7% fair, 69% good, 22% excellent. Winter wheat 5% poor, 15% fair, 68% good, 12% excellent. Corn 4% very poor, 5% poor, 9% fair, 70% good, 12% excellent; 60% planted, 60% 1990, 73% avg. A lot of fields with corn emerged. Soybeans 25% planted, 12% 1990, 27% avg. Oats 89% planted, 98% 1990, 96% avg. Favorable weather resulted in a good week for planting progress.

WYOMING: Temperatures mostly above normal. Precipitation mostly well above normal. Days suitable for fieldwork 3.0. Topsoil 2% short, 68% adequate, 30% surplus. Subsoil 17% short, 79% adequate, 4% surplus. Spring wheat 75% planted, 95% 1990, 90% avg.; 50% emerged, 65% 1990, 65% avg. Oats 80% planted, 85% 1990, 80% avg.; 55% emerged, 60% 1990, 50% avg. Barley 85% planted, 95% 1990, 90% avg.; 70% emerged, 85% 1990, 75% avg. Sugarbeets mostly planted; 40% emerged, 50% 1990, 60% avg. Corn 60% planted, 60% 1990, 55% avg.; 20% emerged, 15% 1990, 15% avg. Potatoes 40% planted, 50% 1990, 50% avg.; 15% emerged, 30% 1990. Dry beans 5% planted, 10% 1990, 10% avg.; 0% emerged, 5% 1990. Winter wheat fair to good. Livestock mostly good. Calf, lamb losses mostly light to normal. Ranges, pastures good to excellent. Stockwater 15% short, 85% adequate.

International Weather and Crop Summary

HIGHLIGHTS

May 12 - 18, 1991

USSR ... In Western USSR, adequate moisture favors crop growth. In the New Lands, mostly favorable weather helps early spring wheat planting.

EUROPE ... Cool weather persists, with widespread rain in the east.

EASTERN ASIA ... Conditions remain favorable in the winter wheat and southern crop regions.

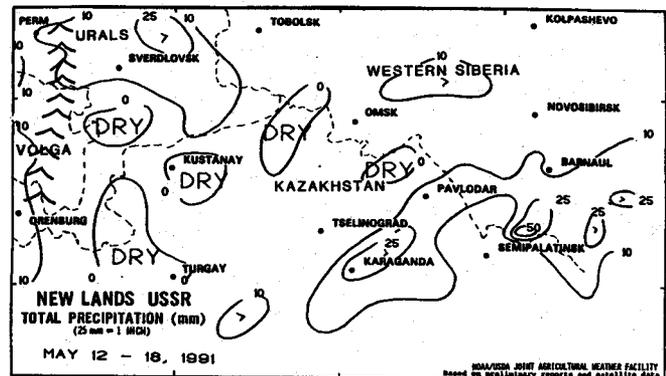
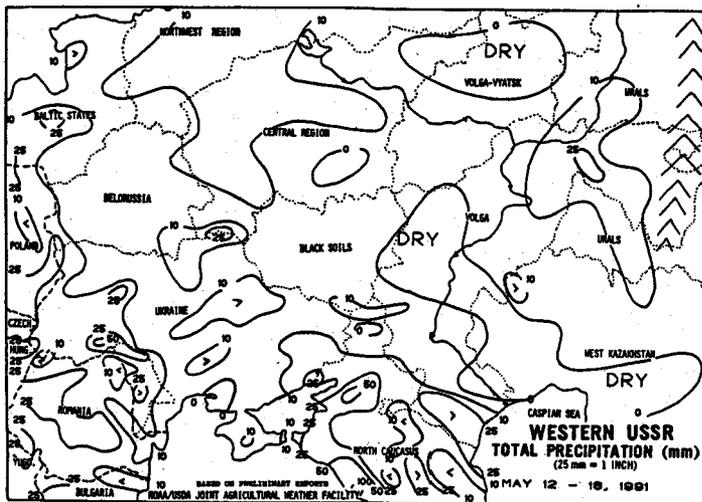
SOUTHEAST ASIA ... Scattered showers bring local relief to Thailand's grain regions. Showers benefit newly planted Philippine grains.

SOUTH AMERICA ... Rains delay harvest in southern Brazil, with only some delays in Argentina.

AUSTRALIA ... Dry conditions continue in the eastern wheat areas further delaying winter wheat planting.

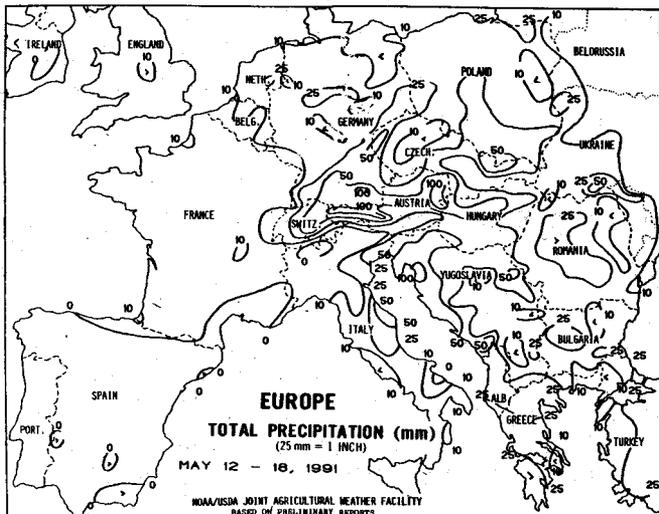
CANADA ... Beneficial showers improve topsoil moisture for spring wheat germination and establishment.

MEXICO ... Rains boost pre-planting topsoil moisture in the eastern crop areas.

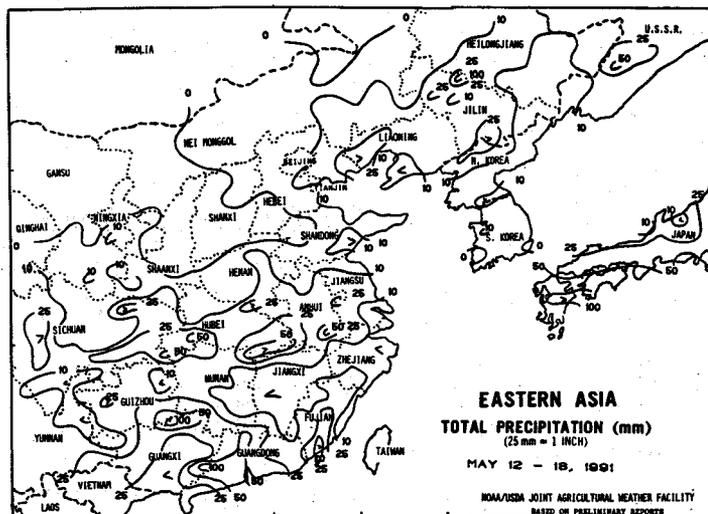


WESTERN USSR ... In Western USSR, winter grains were jointing over most of the region, and some were entering the reproductive phase of development in the extreme south. Crop progress for spring grains ranged from tillering to jointing over the southern half of the region and emerging to tillering in the north. Sugarbeet, sunflower, and corn planting are usually well underway. Widespread light to moderate rain (10-25mm with local amounts in excess of 50mm) benefited crops in the Ukraine and North Caucasus. Precipitation was generally less than 10mm over Belorussia, the Black Soils Region, Volga, and Volga Vyatsk Region. Moisture conditions in these areas were generally adequate to abundant for crop growth. Average weekly temperatures were 1-3 degrees Celsius (C) below normal in the west and south and 1-3 degrees C above normal in the northeast.

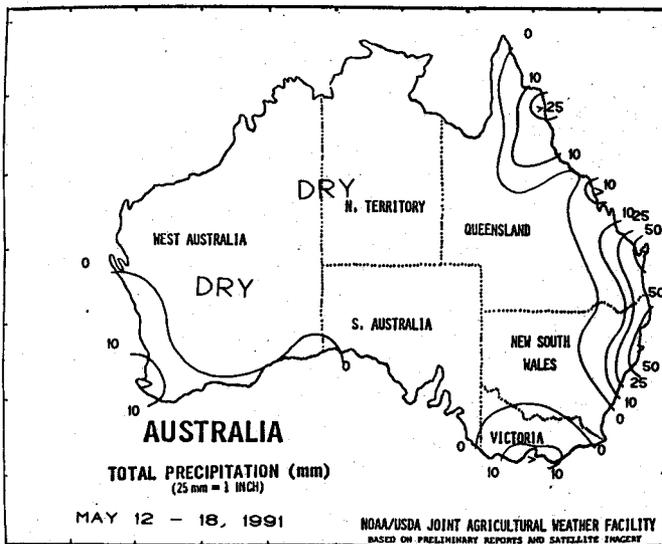
In the New Lands, spring grain planting was in the early stages. Planting usually begins in the south and progresses northward. A cooling trend spread eastward across the region during the week, accompanied by little precipitation. However, some localized areas did receive beneficial rain (10-25mm), including crop areas adjacent to Orenburg and Sverdlovsk and those in a narrow band that stretch eastward from Karaganda through Altay Kray. The rain in these areas was welcomed, increasing topsoil moisture for crop emergence. Persistent dryness and unseasonably warm weather since early April have reduced topsoil moisture in most areas. As a result, widespread significant rain is needed over the region to ensure a favorable start to this year's growing season. Weekly average temperatures were 1-5 degrees C below normal in the west and 5-6 degrees C above normal in the east.



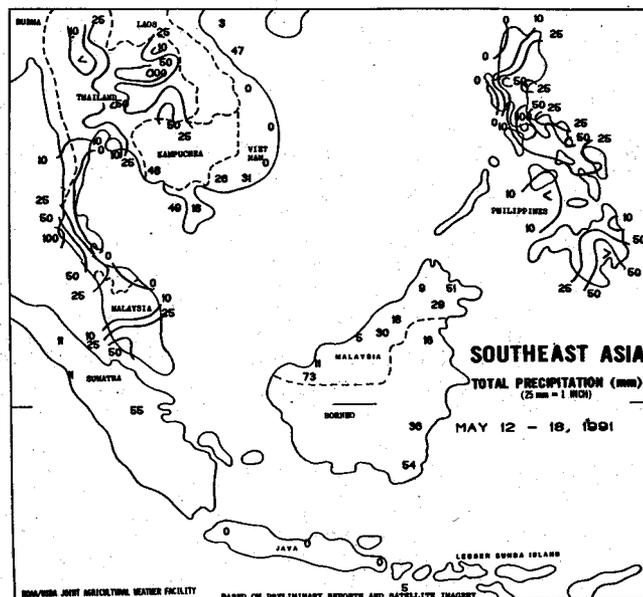
EUROPE ... Dry weather prevailed over the Iberian peninsula, where winter grains are mostly filling but nearly ripe in the south. Milder weather favored crop development, but weekly temperatures still averaged 1-3 degrees C below normal. Little rain (mostly less than 5mm) fell in France, where corn planting is underway. Showers (7-20mm) across the north from England to Poland benefited winter grain and sugarbeet growth. Widespread heavier rain (20-50mm) favored heading winter grains and emerging spring crops from southern Poland to the Balkan countries. Locally excessive rainfall (100-145mm) was confined mostly to northwestern Yugoslavia, Austria, and extreme southern Germany. Light rain (less than 10mm) fell in Italy's Po Valley, with heavier amounts (25-64mm) along Italy's northern Adriatic coast. Weekly temperatures continued to average 2-5 degrees C below normal across much of the continent, slowing crop development.



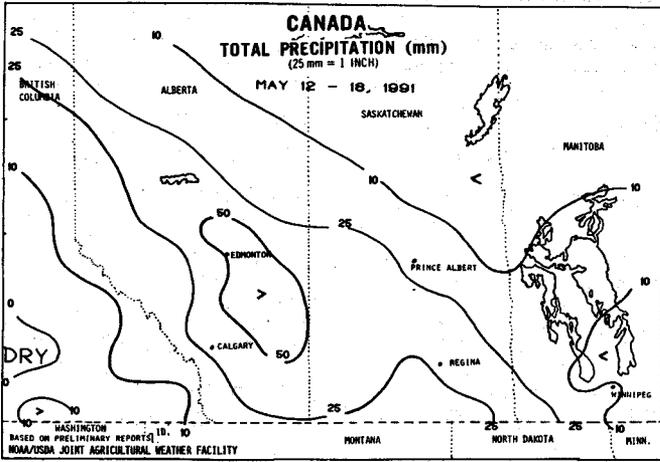
EASTERN ASIA ... Adequate rainfall continues to fall across Manchuria, providing sufficient moisture for germinating spring wheat. Conditions remain favorable for development of winter wheat in the North China Plain. Scattered showers (15-60mm) fell across the southern third of China, with some isolated heavy amounts aiding vegetative crops. Southwest Guangxi received beneficial rains (15-60mm), easing dry conditions. Southern Japan received moderate to heavy rains as tropical cyclone Walt passed just south of the country.



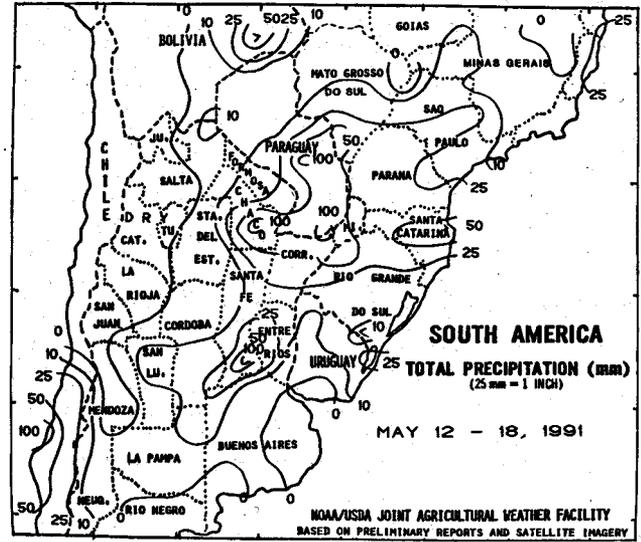
AUSTRALIA ... The eastern wheat areas received only light rains (less than 5mm), causing further delays in winter wheat planting due to insufficient topsoil moisture. However, planting can extend into July so there is plenty of time if significant rains occur. The western wheat regions also received only light rains but recent periodic rains have dampened topsoils.



SOUTHEAST ASIA ... Scattered showers (15-50mm or more) brought local relief to Thailand's primary rice and corn areas. However, continued unseasonably warm weather reduced available moisture for newly planted crops. The southwest monsoon historically becomes established over Indochina during the latter half of May. Monsoon rains and associated cooler weather are critical in upcoming weeks for normal crop development. In the Philippines, beneficial showers (10-50mm or more) fell over most grain regions, although unseasonably dry conditions persisted in portions of northern and western Luzon. Grain planting is underway across the region, necessitating more widespread showers for establishment.

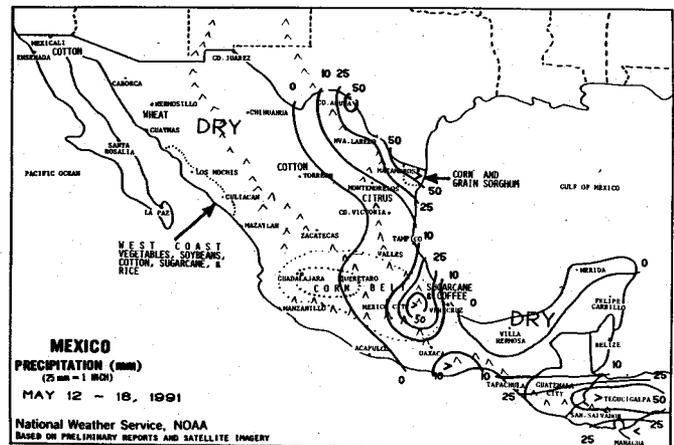


CANADA ... Beneficial showers (10-64mm) returned to the Canadian Prairies, maintaining mostly favorable topsoil moisture for spring wheat planting and establishment. Rainfall in previously dry areas of southern Alberta and southwestern Saskatchewan totaled 21-47mm. In contrast, light rain (15mm or less) fell over Manitoba's crop regions. Weekly temperatures averaged 2-6 degrees C above normal, prompting rapid germination of newly planted crops.



SOUTH AMERICA ... Moderate rain (13-79mm) fell at midweek across southern Brazil and Paraguay, which delayed harvesting of summer crops. In Argentina, early-week thunderstorms brought heavy rains (34-188mm) to southern Santa Fe and northern Buenos Aires. However, dry weather since then has enabled harvesting to resume.

MEXICO ... Portions of the eastern corn belt and northeastern crop areas received light to moderate rains (15-53mm), boosting topsoil moisture reserves for the upcoming planting season.



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(Continued from front cover)

Rainfall reached 4 inches in parts of **southeastern Wyoming**. By midweek, thunderstorms broke out in the **central Plains** and from **Iowa** southward to **Louisiana**. Excessive rainfall included 5 inches in **southeastern Nebraska** on Thursday. Toward week's end, a **Canadian** airmass chewed into the **East's** heat and humidity, sparking thunderstorms. The temperature dipped to 30° F in **Marquette, MI**, on Saturday. Meanwhile, a new Pacific storm dumped copious rain on the **Northwest**. The storm total topped 3. inches in **Eugene, OR**. Rainfall and snowmelt caused flooding in the **northern Rockies**, as well as in the **Blue Mountains** of **Washington** and **Oregon**.

(Continued from p. 11)

VEGETABLES: Spring lettuce harvest began in eastern Arizona, and dry onion and other vegetable harvests continued in the central and western areas. Asparagus harvest was active in California with good quality reported, and broccoli and cauliflower were in large supply. Iceberg lettuce supply was moderate with variable quality. Melon and dehydrating onion harvests were underway in the Imperial Valley. Hot days, warm nights, and frequent rain showers prevailed over Florida's major vegetable-producing areas. Localized hail and strong winds caused some damage to vegetables. Harvests continued to be active in central areas and were gaining in northern areas. Volume leaders were potatoes, watermelons, tomatoes, sweet corn, cucumbers, and peppers. Vegetable planting continued from North Carolina northward through New York, and strawberry picking was underway in the area. In Texas, Rio Grande Valley melon and pepper harvests were slowed by wet weather, while San Antonio-Winter Garden onion and cabbage harvests continued.

PASTURES AND LIVESTOCK: Frequent rains provided good forage growth in Florida, making pasture condition mostly good to excellent. Low weight gains were being reported for Iowa livestock because of continued wetness, and pneumonia incidence increased due to variable temperatures. Cattle, calves, sheep, and lambs continued to be moved to summer pastures in the Rocky Mountains. Range and pasture conditions continued improvement in most areas of Texas due to recent rainfall. However, conditions in the Plains and Trans-Pecos regions continued declining. Horn flies were an increasing nuisance to Texas livestock.

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