

WEEKLY WEATHER AND CROP BULLETIN

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

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

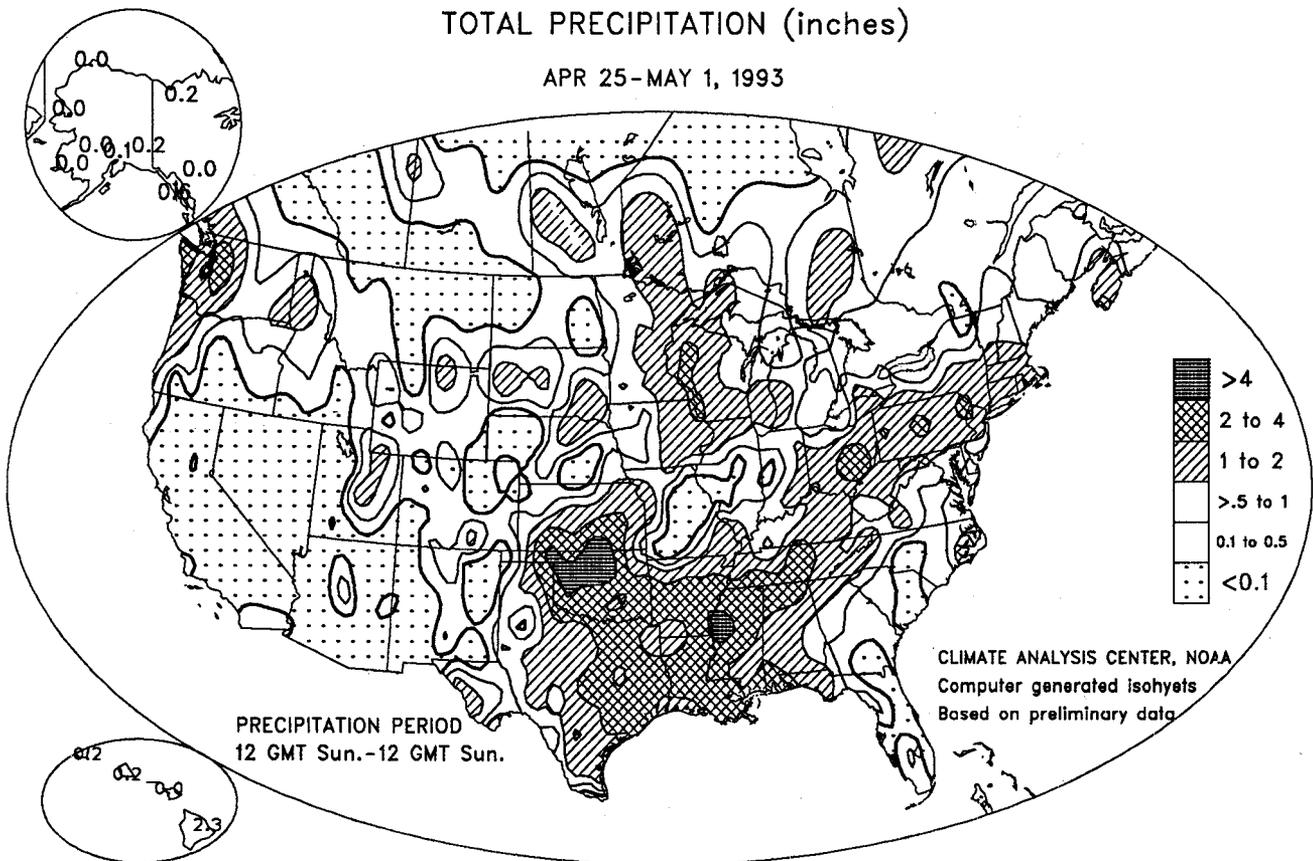
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Washington, D.C.

May 4, 1993

TOTAL PRECIPITATION (inches)

APR 25 - MAY 1, 1993



HIGHLIGHTS

April 25 - May 1, 1993

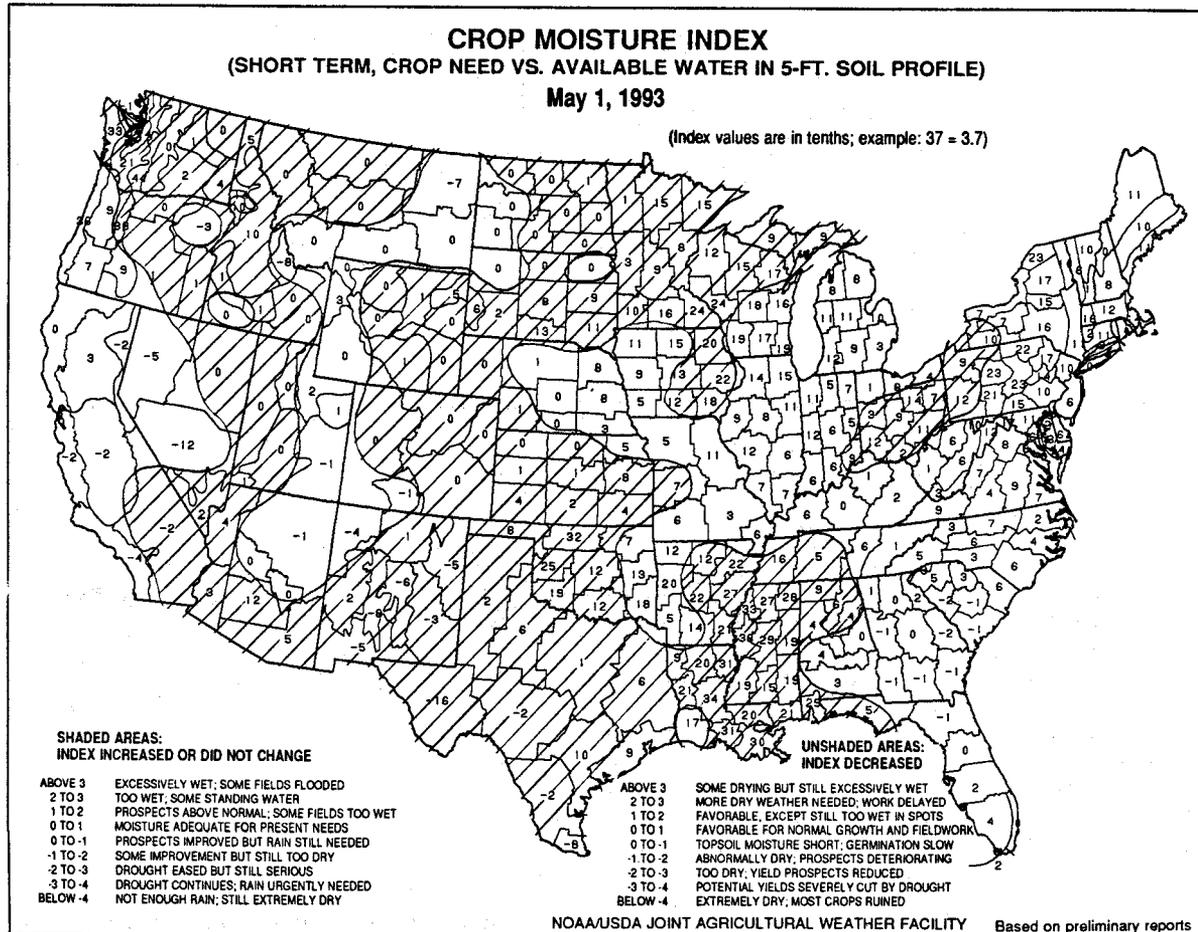
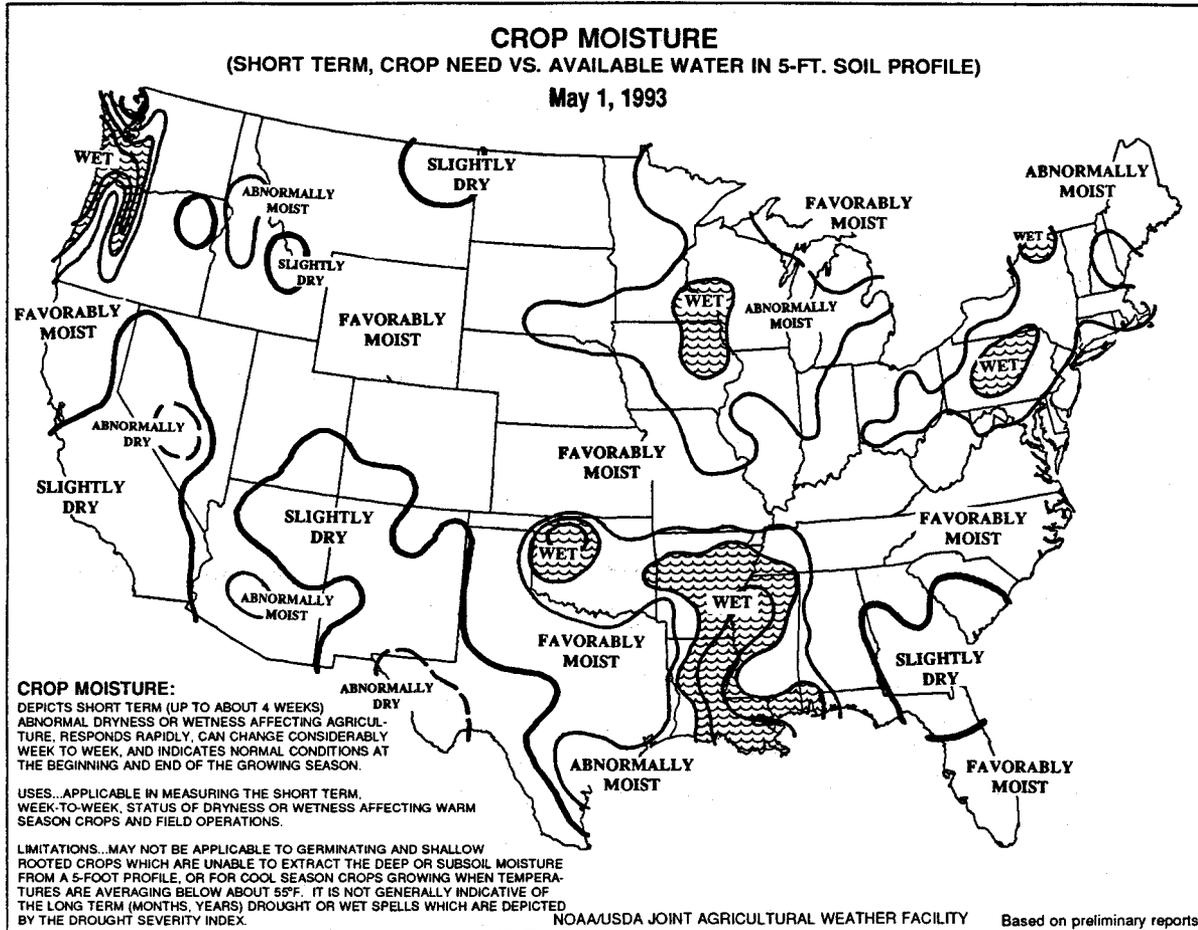
An active spring weather pattern continued, replete with numerous thunderstorms and sharp temperature contrasts. Rains were beneficial in the Pacific Northwest and the southern High Plains, but deterred fieldwork in the upper Midwest and from Oklahoma and eastern Texas to the lower Mississippi Valley. Early in the week, rain lingered from the Tennessee Valley to southern New England as a storm system stalled near the Atlantic seaboard. Total storm rainfall included 2.06 inches in Huntsville, AL, and 1.89 inches in Pittsburgh, PA. By midweek, cool air overspread the East, while strong thunderstorms erupted in the southern Plains. On Tuesday morning, a hard freeze covered the upper Ohio Valley and the eastern Great Lakes States, with lows reaching 24°F in Youngstown, OH and 25°F in Buffalo, NY. A day later, freezing temperatures dotted the Middle

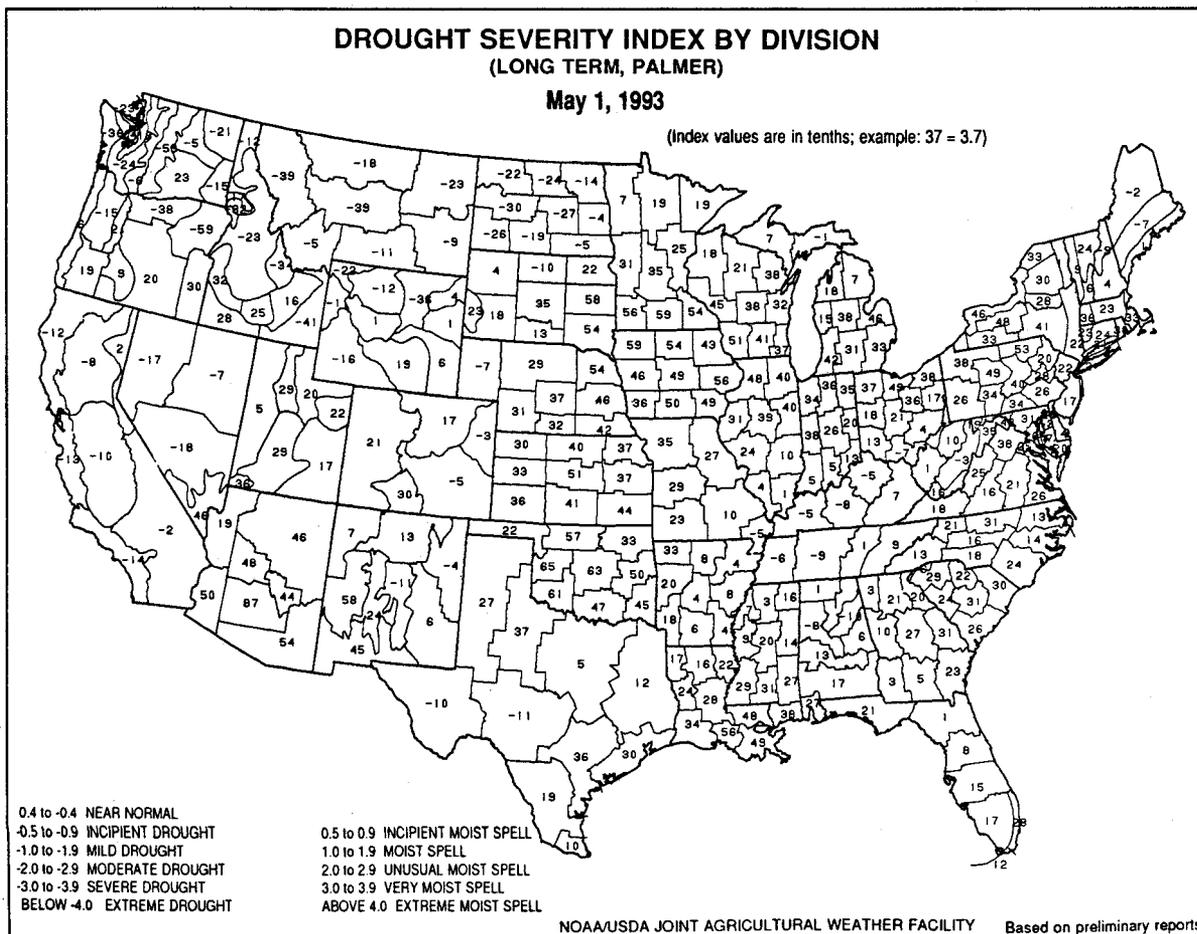
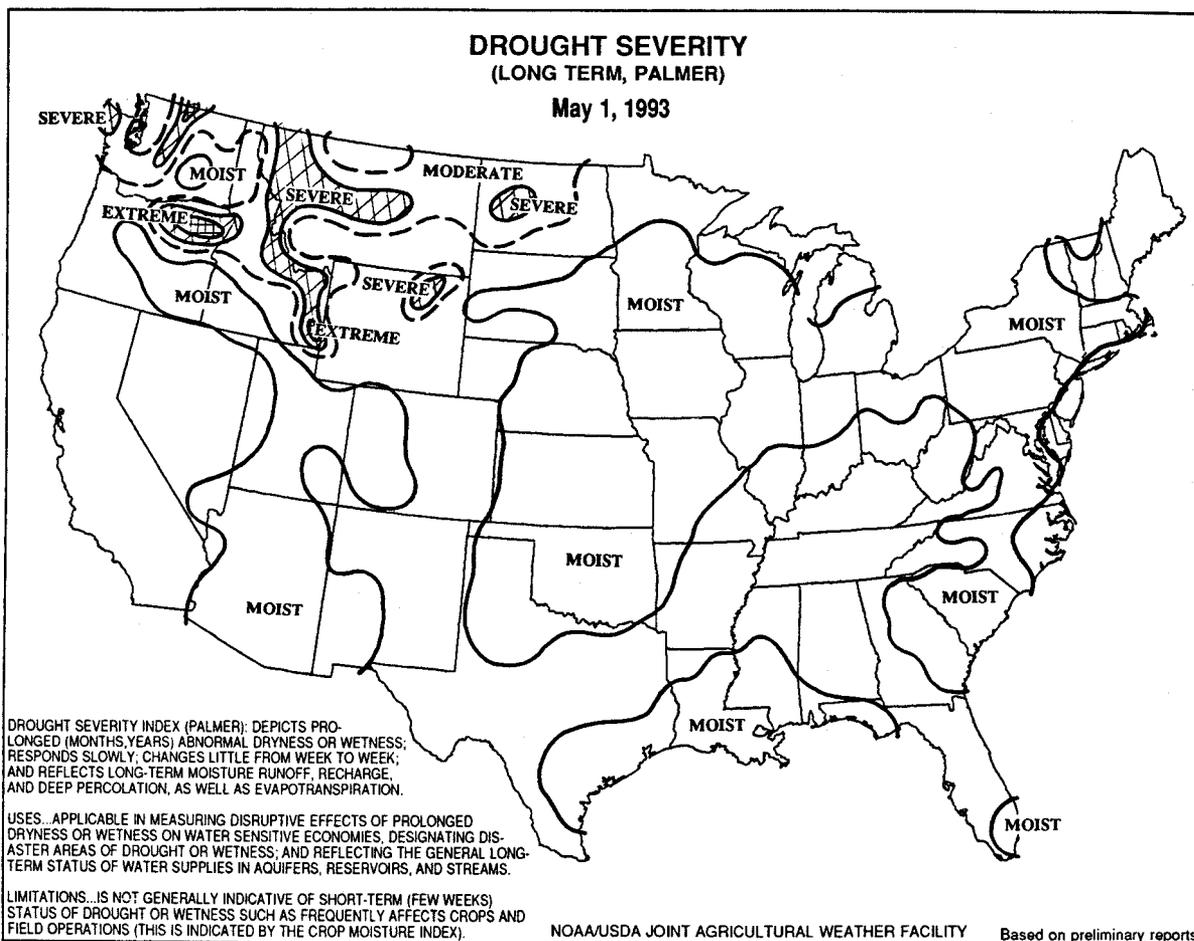
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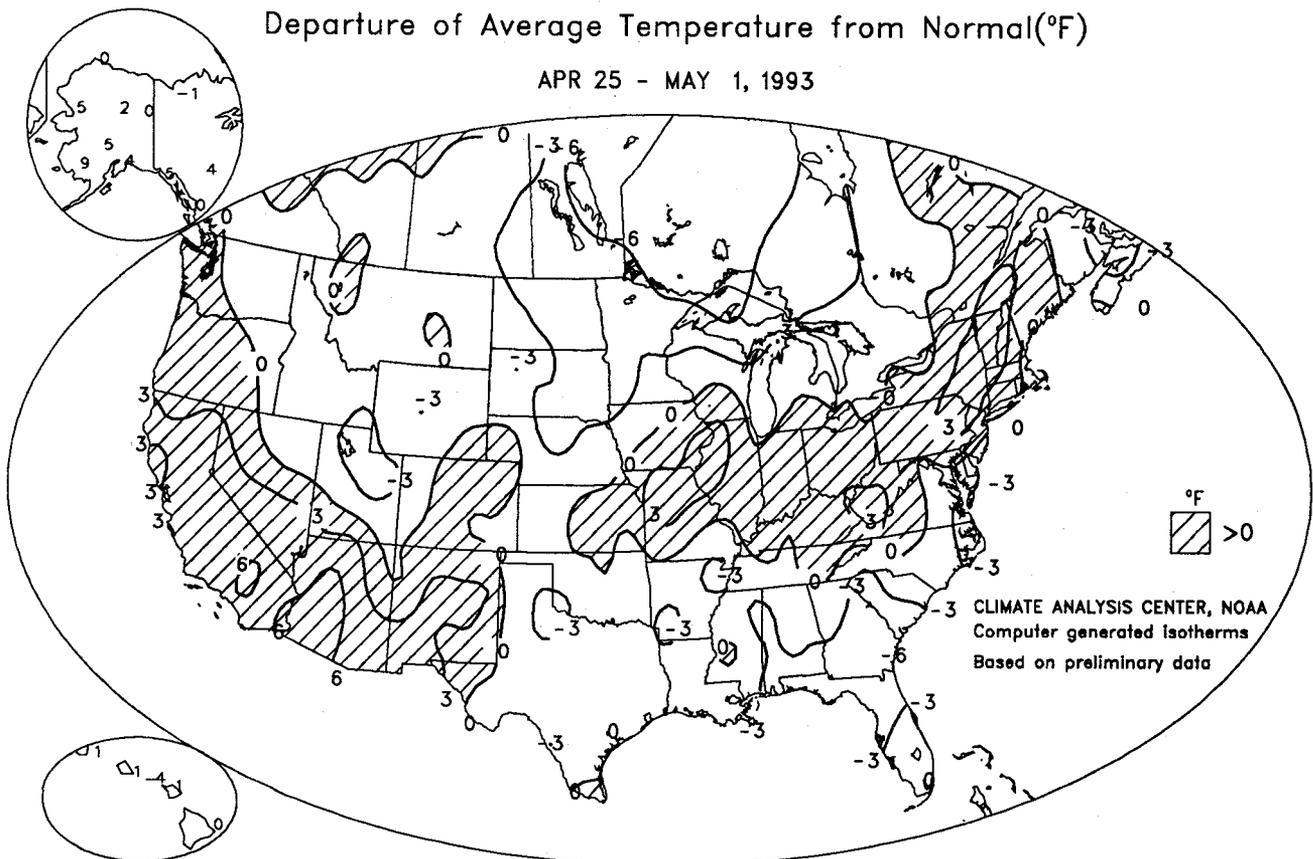
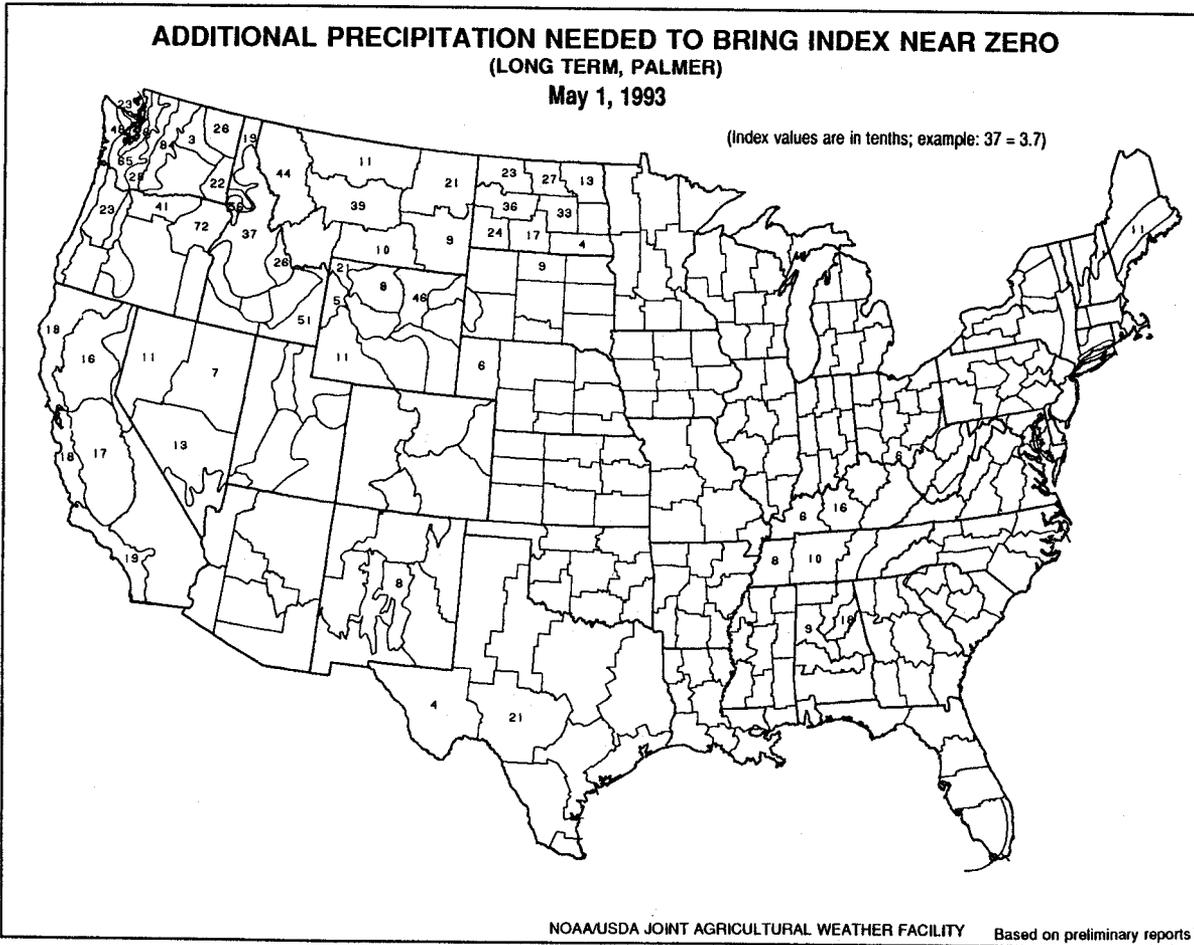
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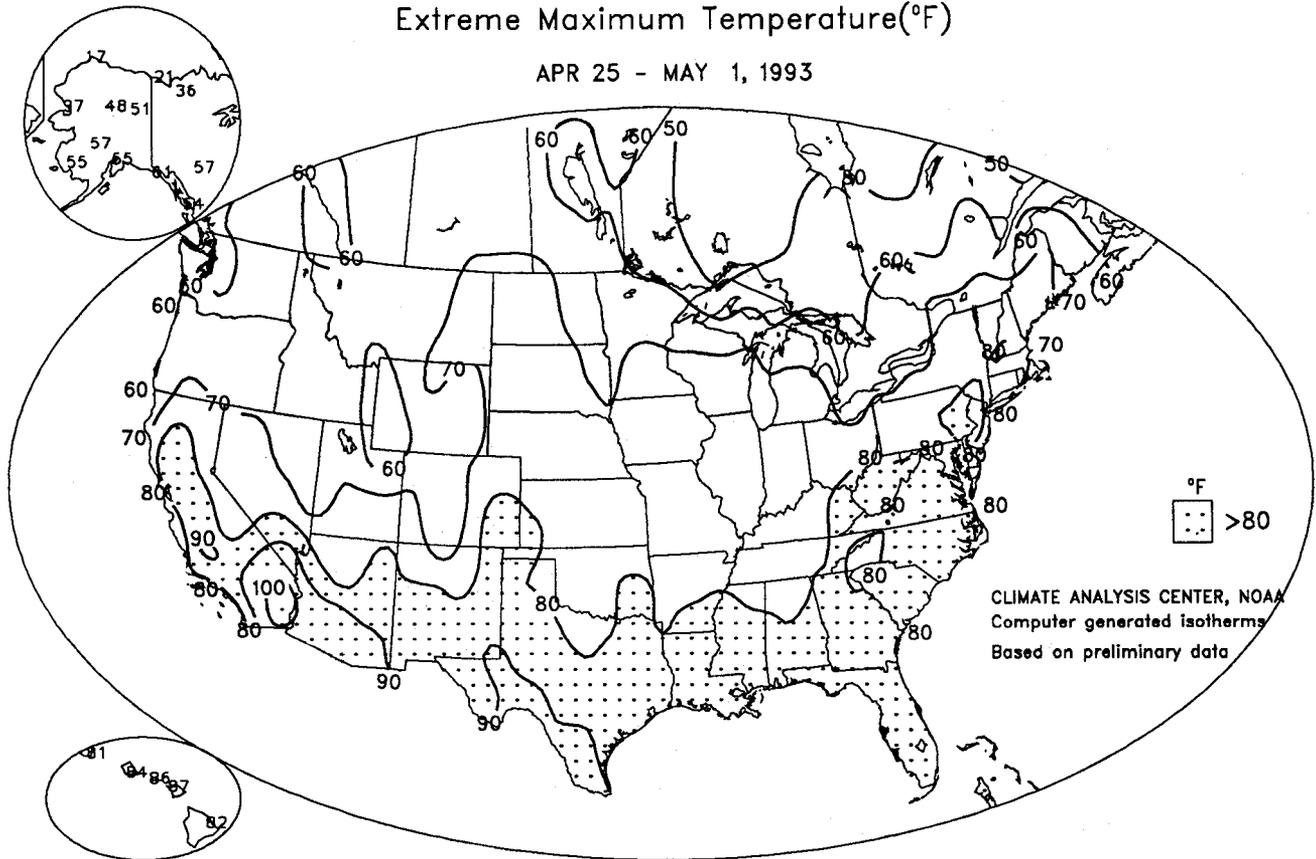






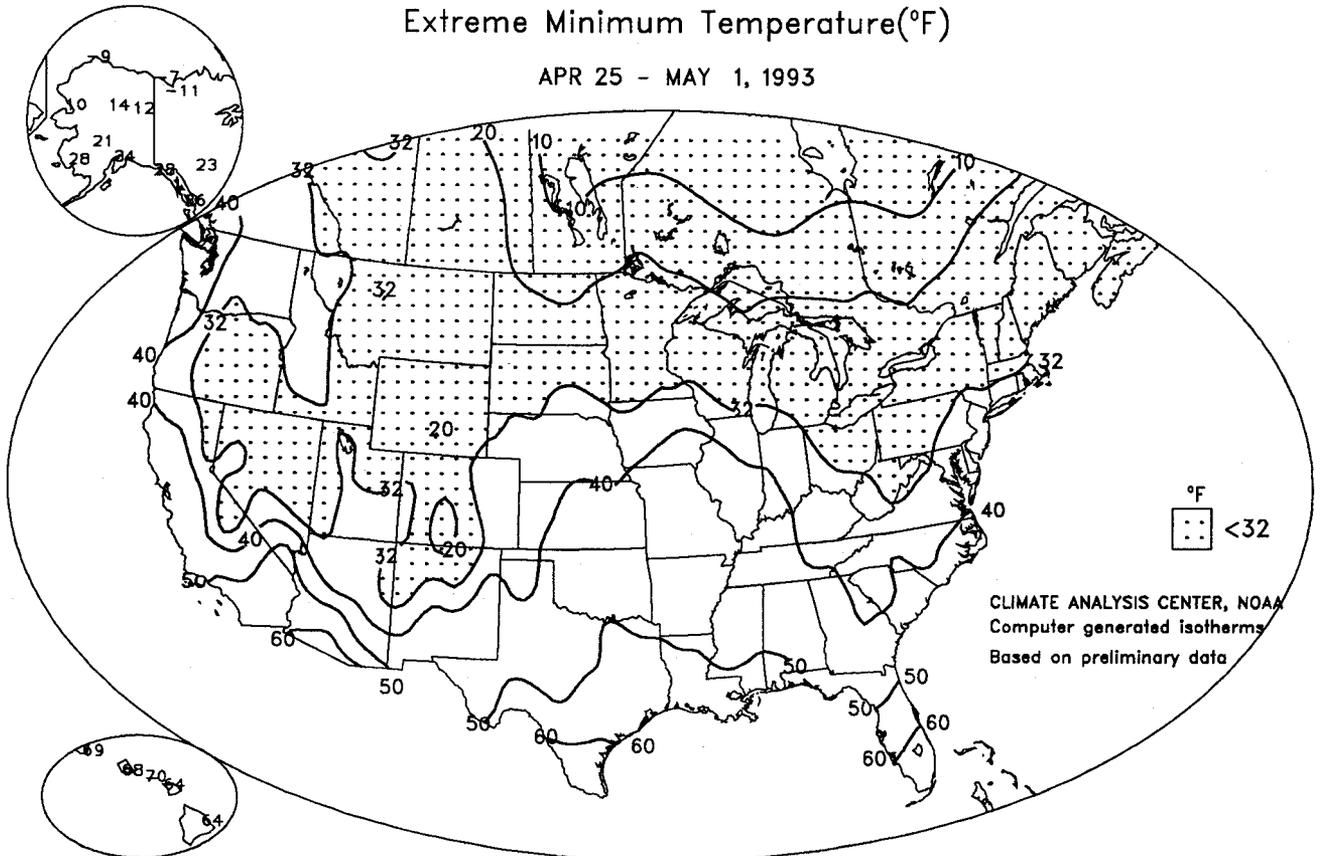
Extreme Maximum Temperature(°F)

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Extreme Minimum Temperature(°F)

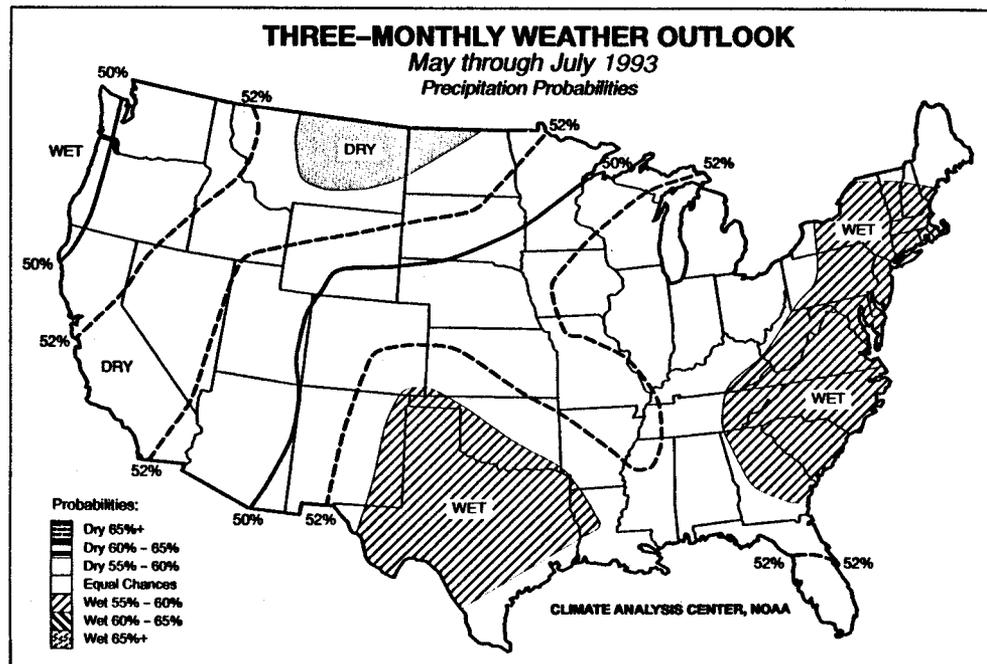
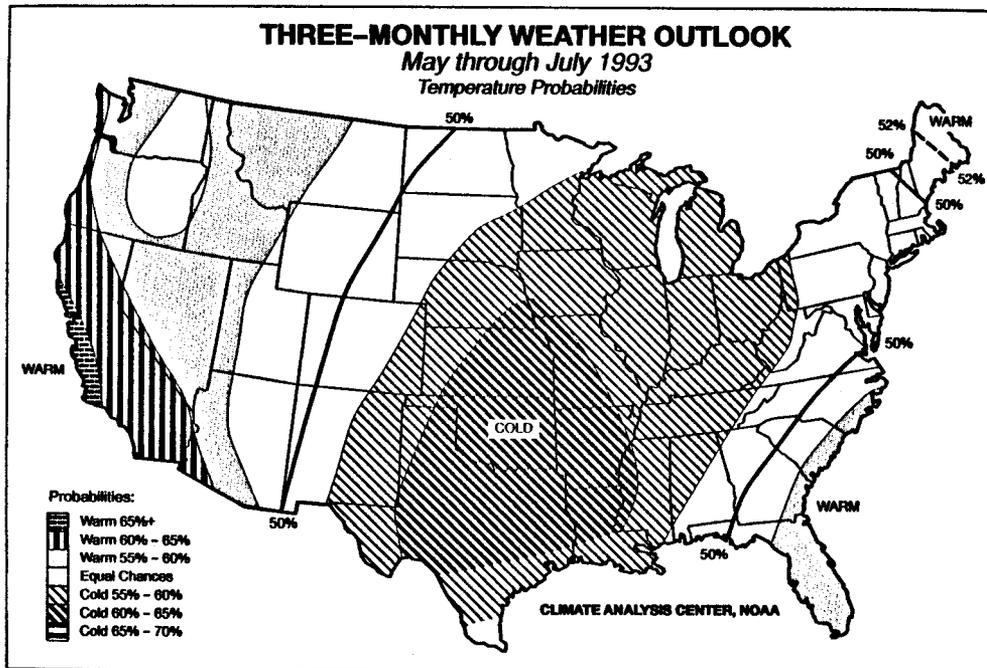
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90-Day Outlook for May - July

The latest National Weather Service 90-day outlook calls for continued cool and wet weather for much of the country east of the Rockies, including a good portion of the major corn, soybean, and winter wheat growing areas. The likelihood for below-normal temperatures and above-normal rainfall is especially high across

Texas and adjacent States. There will be a tendency towards dryness in the northern spring wheat region, especially in Montana and North Dakota. The greatest likelihood for unusual warmth will be along the Pacific coast.



For information on the techniques that the Climate Analysis Center's Prediction Branch uses to prepare the long-range outlooks, see the article by A. J. Wagner entitled "Medium- and Long-Range Forecasting," published by the American Meteorological Society in its journal, *Weather and Forecasting*, Sept. 1989, pp. 413-426. For information on subscribing to their 30- and 90-day outlooks, write to: Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

National Weather Data for Selected Cities

Weather Data for the Week Ending May 1, 1993

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS						
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Mar 1	PCT. NORMAL SINCE Mar 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	TEMP. °F		PRECIP.	
																		.01 INCH OR MORE	.50 INCH OR MORE	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	74	51	79	42	63	-2	.9	-2	.8	7.4	65	15.7	74	88	39	0	0	2	1		
MOBILE	75	59	79	53	67	-1.4	3.6	2.5	1.3	16.5	150	29.0	137	84	61	0	0	2	1		
MONTGOMERY	77	52	83	46	65	-2.2	.9	.0	.8	11.0	103	20.7	98	89	42	0	0	3	1		
AK ANCHORAGE	53	36	55	34	45	4	.1	-1	.1	.27	2.5	84	86	50	0	0	1	0			
BARROW	15	-3	17	-9	6	-1	-1	-1	-1	.37	.7	121	83	70	0	7	0	0			
FAIRBANKS	57	34	65	29	45	-7	.7	.0	.0	.41	3.0	183	83	34	0	2	2	0			
JUNEAU	54	42	62	36	48	6	.7	.0	.2	4.7	76	22.9	158	95	55	0	0	0			
KODIAK	46	39	51	35	42	2	1.6	.5	.7	17.1	190	27.3	126	93	74	0	0	6	1		
NOME	39	24	41	23	32	-7	.0	-2	.0	1.9	150	4.2	157	79	60	0	7	0	0		
AZ PHOENIX	94	67	98	63	81	7	.0	.0	.0	1.6	143	8.6	346	43	13	7	0	0	0		
PRESCOTT	77	44	80	37	61	8	.0	-1	.0	2.5	93	10.9	190	57	16	0	0	0	0		
TUCSON	92	57	94	53	75	6	.0	-1	.0	.5	46	6.8	265	42	9	6	0	0	0		
YUMA	97	66	100	62	82	7	.0	.0	.0	100	3.3	350	43	11	7	0	0	0	0		
AR FORT SMITH	76	53	79	46	64	-1	1.9	.8	1.8	9.2	114	16.4	130	93	45	0	0	2	1		
LITTLE ROCK	71	56	79	52	64	-2	2.9	1.8	1.5	9.9	104	16.9	105	84	53	0	0	4	2		
CA BAKERSFIELD	84	53	91	48	69	3	.0	-1	.0	1.8	109	6.1	173	48	22	1	0	0	0		
EUREKA	61	49	65	45	55	4	.5	.0	.3	10.7	129	23.8	125	85	52	0	0	3	0		
FRESNO	83	53	90	47	68	4	.0	-1	.0	2.0	69	9.6	145	79	26	1	0	0	0		
LOS ANGELES	70	58	75	56	64	3	.0	-1	.0	1.9	68	17.7	233	88	66	0	0	0	0		
REDDING	80	54	87	42	67	6	.0	-3	.0	10.0	153	27.9	164	62	26	0	0	0	0		
SACRAMENTO	80	49	86	41	65	4	.0	-2	.0	3.0	81	16.7	161	89	28	0	0	0	0		
SAN DIEGO	71	59	76	58	65	2	.0	-1	.0	1.2	48	15.0	254	88	61	0	0	0	0		
SAN FRANCISCO	72	50	80	48	61	4	.0	-2	.0	2.7	61	18.7	156	86	49	0	0	0	0		
CO DENVER	67	40	76	34	53	1	.0	-5	.0	3.0	98	4.3	104	73	24	0	0	1	0		
GRAND JUNCTION	69	41	74	36	55	-2	.1	-2	.1	3.1	151	5.6	178	69	20	0	0	1	0		
PUEBLO	71	39	79	32	55	-1	.4	-2	.3	2.7	159	3.3	142	86	27	0	1	2	0		
CT BRIDGEPORT	67	44	74	37	55	3	.8	-1	.8	10.3	134	15.5	111	69	39	0	0	1	1		
HARTFORD	71	39	82	34	55	2	.7	-3	.6	11.4	149	16.9	119	76	27	0	0	2	1		
DC WASHINGTON	73	48	81	40	60	0	.5	-2	.5	10.4	175	15.6	137	84	40	0	0	1	0		
FL APALACHICOLA	75	59	78	52	67	-3	.3	-3	.3	4.5	64	14.9	101	78	48	0	0	1	0		
DAYTONA BEACH	78	59	87	53	69	-3	.0	-6	.0	5.9	113	13.2	119	89	48	0	0	0	0		
JACKSONVILLE	76	53	82	46	65	-6	.0	-6	.0	6.8	110	13.6	102	90	40	0	0	1	0		
KEY WEST	81	71	85	69	76	-2	.0	-5	.0	3.2	91	11.5	156	77	61	0	0	0	0		
MIAMI	81	70	88	67	76	-1	.3	-6	.3	9.1	168	16.2	171	70	53	0	0	1	0		
ORLANDO	81	59	86	56	70	-4	.0	-4	.0	8.0	158	14.4	138	87	47	0	0	0	0		
TALLAHASSEE	80	51	85	41	66	-3	.2	-6	.2	7.3	72	21.4	105	84	44	0	0	1	0		
TAMPA	82	60	84	54	71	-3	.0	-3	.0	6.4	151	12.3	132	83	49	0	0	0	0		
WEST PALM BEACH	79	69	84	67	74	-2	.0	-9	.0	13.6	225	23.7	207	67	52	0	0	2	0		
GA ATLANTA	76	54	79	48	65	0	.4	-6	.3	8.5	84	16.9	86	66	34	0	0	2	0		
AUGUSTA	81	47	85	39	64	-2	.2	-6	.2	9.1	112	18.3	111	81	30	0	0	1	0		
MACON	78	49	82	40	63	-4	.6	-2	.6	12.2	146	21.9	124	88	36	0	0	1	1		
SAVANNAH	78	53	82	43	66	-4	.1	-7	.1	11.2	161	20.0	146	82	38	0	0	1	0		
HI HILO	81	67	83	65	74	1	2.3	-9	.9	21.5	73	26.4	53	92	62	0	0	7	1		
HONOLULU	85	71	85	68	78	1	.2	-1	.1	.3	7	1.4	14	80	49	0	0	2	0		
KAHULUI	84	68	87	64	76	2	.0	-3	.0	2.1	46	4.5	39	76	54	0	0	0	0		
LIHUE	81	72	81	69	76	2	.2	-6	.2	2.3	30	3.5	21	78	64	0	0	1	0		
ID BOISE	62	39	67	33	51	-1	.2	-1	.2	4.5	176	7.2	140	85	30	0	0	4	0		
LEWISTON	62	43	68	38	52	-1	1.1	.8	.5	4.0	176	5.4	122	83	47	0	0	4	1		
POCATELLO	59	36	63	28	47	-1	.2	-1	.2	3.2	129	7.6	170	84	29	0	1	2	0		
IL CHICAGO	63	43	73	34	53	0	.5	-4	.4	9.1	142	13.7	148	83	45	0	0	3	0		
MOLINE	71	47	74	41	59	4	1.6	-6	1.2	10.4	149	13.4	136	86	38	0	0	4	1		
PEORIA	70	50	75	43	60	4	.6	-4	.3	9.3	136	14.5	148	90	41	0	0	4	0		
QUINCY	69	53	73	45	61	3	.2	-8	.1	5.3	74	8.6	87	85	46	0	0	3	0		
ROCKFORD	69	43	74	33	56	3	1.0	-1	.6	10.2	164	13.5	156	87	40	0	0	4	1		
SPRINGFIELD	69	51	74	45	60	2	.5	-4	.4	7.1	101	12.6	122	86	45	0	0	5	0		
IN EVANSVILLE	72	51	79	44	62	0	.5	-5	.3	7.6	82	13.8	88	87	46	0	0	4	0		
FORT WAYNE	67	47	74	35	57	3	1.8	1.0	1.6	8.0	125	15.0	148	85	44	0	0	2	1		
INDIANAPOLIS	70	48	76	37	59	2	.3	-6	.2	7.5	98	13.1	106	86	45	0	0	4	0		
SOUTH BEND	64	43	72	35	53	0	.9	-1	.4	6.3	89	11.8	106	83	36	0	0	3	0		
IA DES MOINES	69	46	72	40	58	2	.5	-4	.4	6.5	111	9.7	123	88	38	0	0	2	0		
SIOUX CITY	64	41	71	33	53	-3	.5	-1	.4	4.6	105	7.4	131	88	34	0	0	4	0		
WATERLOO	67	45	74	38	56	3	1.2	.3	.7	8.4	147	10.3	135	91	41	0	0	2	1		
KS CONCORDIA	67	47	76	43	57	0	.5	-2	.4	4.8	102	7.3	123	89	50	0	0	3	0		
DODGE CITY	69	46	78	41	58	-1	2.2	1.6	1.1	5.1	139	9.0	187	87	50	0	0	3	2		
GOODLAND	66	38	79	31	52	-1	.1	-4	.1	1.2	48	2.6	78	88	37	0	1	3	0		
TOPEKA	71	50	74	42	60	1	.6	-2	.6	8.0	141	11.5	150	91	44	0	0	2	1		
WICHITA	72	51	76	45	61	0	2.2	1.4	1.7	4.8	85	7.7	101	91	49	0	0	3	1		
KY BOWLING GREEN	72	49	77	40	60	0	.8	-3	.7	6.5	68	12.4	70	92	46	0	0	2	1		
LEXINGTON	72	47	79	34	59	1	.9	-1	.9	7.3	87	13.9	96	79	39	0	0	2	1		
LOUISVILLE	74	50	80	39	62	2	.5	-5	.4	8.8	97	16.5	108	91	41	0	0	3	0		
LA BATON ROUGE	81	60	88	53	70	-1	1.2	-1	.9	17.8	172	34.0	163	98	52	0	0	2	1		
LAKE CHARLES	79	63	82	56	71	0	.5	-5	.2	13.0	193	24.2	162	92	64	0	0	4	0		
NEW ORLEANS	79	62	83	55	70	-1	4.4	3.4	2.2	14.7	154	23.2	113	91	61	0	0	4	2		
SHREVEPORT	76	56	82	51	66	-2	1.5	.4	1.0	11.1	135	20.5	124	95	57	0	0	3	1		

Based on 1961-90 normals.

Weather Data for the Week Ending May 1, 1993

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT	NUMBER OF DAYS					
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Mar 1	PCT. NORMAL SINCE Mar 1	TOTAL, IN., SINCE Jan 1		PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	PRECIP.
													.01 INCH OR MORE						.50 INCH OR MORE
ME CARIBOU	57	33	71	27	45	1	.2	-.4	.1	5.2	105	9.5	101	81	31	0	3	2	0
PORTLAND	57	35	62	29	46	-2	.7	-.3	.6	12.0	152	18.6	126	89	34	0	3	2	1
MD BALTIMORE	72	42	81	36	57	-1	.5	-.3	.5	11.8	178	17.3	135	79	35	0	0	1	1
SALISBURY	72	42	80	33	57	0	.5	-.2	.5	11.4	153	17.9	123	91	45	0	1	1	1
MA BOSTON	59	41	73	33	50	-2	1.1	.3	.8	12.5	170	19.7	135	82	38	0	0	2	2
CHATHAM	51	41	58	36	46	-2	1.6	.8	1.0	10.6	138	16.7	108	93	47	0	0	2	2
MI ALPENA	54	33	68	21	43	-3	.6	.0	.3	3.5	79	5.6	77	93	49	0	3	3	0
DETROIT	65	44	73	31	54	2	.4	-.3	.2	5.4	98	10.6	117	83	40	0	1	2	0
FLINT	62	41	72	26	52	1	.4	-.3	.4	5.8	112	9.8	125	81	43	0	2	2	0
GRAND RAPIDS	62	39	71	28	50	-1	1.0	.2	.9	7.3	119	12.6	135	88	36	0	2	2	1
HOUGHTON LAKE	58	37	69	26	48	0	.4	-.2	.3	3.6	83	6.2	89	90	42	0	2	3	0
LANSING	62	40	71	26	51	1	.5	-.2	.4	6.6	127	11.0	139	92	46	0	2	2	0
MARQUETTE	47	28	67	19	37	-6	.6	.0	.3	5.1	93	8.2	87	93	53	0	6	4	0
MUSKOGON	60	38	69	30	49	-1	1.0	.3	.7	6.5	118	9.9	106	85	43	0	2	3	1
SAULT ST. MARIE	51	31	61	23	41	-3	.7	.1	.3	4.2	88	6.6	74	89	45	0	4	4	0
MN ALEXANDRIA	56	37	69	30	47	-3	.8	.2	.6	4.3	117	5.3	101	91	40	0	2	2	1
DULUTH	47	32	66	27	39	-5	1.3	.7	1.0	3.8	91	6.1	97	93	47	0	5	4	1
INT'L FALLS	47	31	59	21	39	-6	1.4	1.0	.5	2.4	89	3.2	76	91	59	0	3	4	0
MINNEAPOLIS	62	41	72	36	52	-1	1.2	.5	.6	3.7	82	5.3	85	90	32	0	0	6	1
ROCHESTER	59	39	71	30	49	-1	1.2	.5	.6	8.0	173	10.0	163	91	34	0	1	4	2
MS GREENWOOD	76	57	81	46	67	-1	4.1	2.9	2.7	13.1	118	18.8	92	90	54	0	0	4	2
JACKSON	80	56	84	45	68	1	1.9	.6	1.7	9.6	83	17.8	81	90	47	0	0	3	1
MERIDIAN	76	56	84	48	66	-1	1.8	.7	.9	12.1	98	26.6	116	85	49	0	0	3	2
MO CAPE GIRARDEAU	71	51	78	45	61	-1	1.4	.3	1.0	8.0	83	16.7	105	93	51	0	0	4	1
COLUMBIA	71	51	76	43	61	3	.2	-.7	.2	7.8	113	12.2	119	94	53	0	0	4	0
KANSAS CITY	71	52	74	44	62	3	1.2	.3	1.2	7.8	135	11.1	139	85	45	0	0	2	1
SAINT LOUIS	71	54	79	48	62	2	.6	-.2	.3	9.6	133	15.9	143	82	48	0	0	3	0
SPRINGFIELD	73	52	77	42	63	3	.6	-.2	.3	5.7	72	11.2	97	87	44	0	0	1	0
MT BILLINGS	61	40	69	31	50	1	.2	.3	.1	2.4	80	3.2	70	78	28	0	1	2	0
GLASGOW	62	35	71	28	49	-1	.6	-.2	.1	1.3	109	1.8	101	87	30	0	2	1	0
GREAT FALLS	58	35	60	32	47	-1	.6	-.2	.6	4.3	166	6.1	151	85	31	0	1	1	1
HAVRE	61	34	63	28	48	-1	.6	-.3	.1	1.0	63	1.7	66	90	34	0	1	0	0
HELENA	58	38	62	33	48	0	.1	-.2	.1	2.2	125	4.0	143	82	31	0	0	1	0
KALISPELL	56	40	60	37	48	1	.2	-.1	.1	2.8	132	5.1	107	87	36	0	0	3	0
MILES CITY	63	38	72	32	51	0	.2	-.4	.1	3.0	147	3.9	129	83	31	0	1	0	0
MISSOULA	58	38	64	30	48	1	.5	.2	.3	2.5	128	4.1	101	91	37	0	1	4	0
NE GRAND ISLAND	66	43	76	37	55	-1	1.1	-.6	.1	2.6	58	5.3	92	95	36	0	0	1	0
LINCOLN	67	42	74	35	54	-2	.9	-.1	.5	4.8	96	6.0	97	98	45	0	0	2	0
NORFOLK	65	42	75	36	53	-1	.4	-.2	.3	4.8	114	7.8	141	90	35	0	0	3	0
NORTH PLATTE	65	39	76	34	52	0	.8	-.2	.6	2.4	74	4.6	111	90	36	0	0	2	1
OMAHA	66	46	73	41	56	0	.4	-.3	.2	5.0	101	6.9	107	90	35	0	0	4	0
SCOTTSBLUFF	65	38	75	31	51	1	.2	-.3	.2	3.3	121	5.4	146	90	27	0	1	2	0
VALENTINE	61	37	79	32	49	-4	.6	.0	.4	4.5	127	5.7	125	85	47	0	2	3	0
NV ELY	65	26	70	21	46	0	.0	-.3	.0	1.4	70	4.9	146	83	19	0	6	0	0
LAS VEGAS	87	60	93	54	74	6	.0	-.1	.0	.2	22	4.3	268	43	11	2	0	0	0
RENO	71	39	77	33	55	3	.0	-.1	.0	.6	50	4.3	134	60	17	0	0	0	0
WINNEMUCCA	67	34	72	28	50	1	.0	-.2	.0	1.8	107	4.3	142	80	17	0	2	0	0
NH CONCORD	69	33	81	26	51	2	.6	-.1	.6	6.8	118	9.9	92	93	33	0	4	1	1
NJ ATLANTIC CITY	68	38	75	30	53	-1	.4	-.4	.4	11.1	151	16.1	116	92	34	0	1	1	0
NM ALBUQUERQUE	78	48	83	40	63	4	.1	.0	.1	.1	14	2.9	148	58	15	0	0	1	0
CLOVIS	76	46	85	39	61	1	.3	.0	.2	.6	43	1.5	65	83	28	0	0	2	0
ROSWELL	81	53	86	45	67	2	.5	.4	.3	1.2	141	2.1	128	75	23	0	0	3	0
NY ALBANY	70	42	78	29	56	5	.8	.1	.8	10.5	174	15.5	145	71	29	0	2	1	1
BINGHAMTON	64	40	73	28	52	3	.8	.0	.7	10.8	179	15.6	145	73	33	0	3	2	1
BUFFALO	62	40	73	25	51	1	.5	-.2	.5	5.6	99	11.9	111	78	37	0	2	1	1
NEW YORK	70	46	78	40	58	3	.6	-.3	.6	9.9	133	16.3	121	77	32	0	0	1	1
ROCHESTER	63	39	74	26	51	0	.2	-.5	.2	5.5	111	9.4	102	89	40	0	2	1	0
SYRACUSE	65	39	75	28	52	1	.7	-.1	.6	10.3	165	15.8	148	80	33	0	2	2	1
NC ASHEVILLE	72	43	76	33	58	-1	.5	-.4	.5	9.4	97	15.3	84	79	25	0	0	1	1
CHARLOTTE	77	50	81	42	63	1	.2	-.4	.2	9.6	133	18.5	125	73	27	0	0	1	0
GREENSBORO	77	48	82	36	62	1	.3	-.4	.3	13.7	206	20.7	158	76	32	0	0	1	0
HATTERAS	66	51	76	46	58	-4	.3	-.5	.3	10.6	134	21.6	125	84	50	0	0	1	0
NEW BERN	75	47	83	42	61	-4	1.5	.7	1.5	10.6	146	19.5	124	87	38	0	0	1	1
RALIGH	77	48	83	35	62	0	.6	-.6	.6	11.0	169	17.7	130	83	28	0	0	1	0
WILMINGTON	77	48	83	40	62	-2	.6	-.7	.7	12.1	160	20.9	125	93	41	0	0	1	0
ND BISMARCK	59	33	72	24	46	-3	.3	-.1	.2	1.7	66	2.3	67	88	33	0	4	2	0
FARGO	57	34	68	25	46	-3	.2	-.3	.2	1.6	53	2.6	62	82	32	0	2	3	0
GRAND FORKS	55	32	67	22	44	-4	.2	-.1	.2	.7	31	1.1	32	85	43	0	3	2	0
WILLISTON	61	32	74	25	46	-2	.6	-.4	.4	1.3	64	1.8	59	90	35	0	5	2	0
OH AKRON-CANTON	65	42	74	27	54	0	1.2	.4	1.0	7.9	120	13.9	126	79	40	0	2	2	1
CINCINNATI	70	48	78	35	59	1	.8	-.1	.6	6.7	83	14.0	104	87	42	0	0	3	1
CLEVELAND	63	43	74	29	53	1	.6	-.2	.5	7.0	114	14.1	135	86	38	0	1	3	0
COLUMBUS	68	43	76	31	55	2	1.9	1.0	1.7	8.0	117	13.9	127	89	40	0	1	4	1
DAYTON	68	45	76	32	57	1	2.1	1.2	2.0	10.6	152	17.3	153	83	42	0	1	3	1

Based on 1961-90 normals.

Weather Data for the Week Ending May 1, 1993

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Mar 1	PCT. NORMAL SINCE Mar 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMP. °F		PRECIP.	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
TOLEDO	66	44	76	29	55	2	.8	.1	.6	6.5	114	11.4	124	92	40	0	0	0	0
YOUNGSTOWN	65	39	76	24	52	0	1.1	.4	1.0	7.1	112	12.7	122	82	35	0	1	2	1
OK OKLAHOMA CITY	74	54	76	49	64	0	1.1	.3	.6	5.4	96	9.9	119	87	46	0	0	3	2
TULSA	74	54	78	48	64	-1	1.6	.7	.5	7.4	100	12.3	113	92	49	0	0	2	1
OR ASTORIA	55	46	56	44	50	0	1.6	.7	.5	16.1	137	23.7	81	97	72	0	0	6	1
BURNS	58	34	65	29	46	0	.1	-.1	.1	3.3	199	5.8	167	85	34	0	4	2	0
MDFORD	71	42	75	37	57	0	.5	-.2	.4	3.1	102	7.1	93	88	32	0	0	0	0
PENDLETON	64	42	71	37	53	0	.5	-.2	.4	3.4	147	6.0	121	84	37	0	0	4	0
PORTLAND	61	48	67	45	54	1	.4	-.1	.2	9.7	162	13.5	89	94	51	0	0	5	0
SALEM	62	46	68	42	54	3	1.2	.5	.1	10.8	162	17.2	101	89	47	0	0	5	0
PA ALLENTOWN	72	42	81	34	57	3	.7	.4	1.2	13.4	194	18.2	139	80	31	0	0	1	1
BRIDGEVILLE	62	41	76	28	52	1	.7	.0	.6	5.9	94	11.3	104	87	42	0	2	2	1
HARRISBURG	74	54	81	44	64	8	.4	-.5	.4	10.8	145	15.8	113	75	34	0	0	1	0
PHILADELPHIA	73	46	80	40	60	4	1.9	1.1	1.0	7.8	117	13.7	118	80	35	0	1	2	2
PITTSBURGH	68	42	77	29	55	1	1.3	.5	1.3	11.5	205	14.5	147	78	27	0	0	1	1
RI PROVIDENCE	64	42	74	35	53	1	1.1	.2	.9	12.0	145	19.6	124	79	41	0	0	3	1
SC CHARLESTON	77	53	82	47	65	-3	.1	-.6	.1	8.5	120	20.5	148	86	41	0	0	1	0
COLUMBIA	80	46	83	36	63	-3	.1	-.6	.1	7.7	93	18.4	110	84	25	0	0	1	0
FLORENCE	80	49	84	41	65	-2	.1	-.6	.1	5.1	74	14.2	103	80	27	0	0	1	0
GREENVILLE	75	44	79	34	60	-3	.3	-.6	.3	13.2	141	23.9	134	80	29	0	0	1	0
SD ABERDEEN	60	35	73	24	48	-3	.2	-.4	.2	2.1	69	3.2	75	90	29	0	2	2	0
HURON	59	36	69	32	48	-4	1.3	.6	.6	5.2	137	6.1	125	91	34	0	1	4	1
RAPID CITY	61	35	75	32	48	-2	1.3	.7	1.3	3.9	129	5.2	134	86	32	0	1	2	1
SIoux FALLS	60	38	68	33	49	-3	1.7	1.0	.9	5.2	122	6.7	124	88	33	0	0	4	2
TN CHATTANOOGA	76	50	82	42	63	1	1.0	1.0	1.0	10.7	102	19.6	97	90	37	0	0	1	1
KNOXVILLE	75	48	81	40	62	1	.6	-.2	.5	8.7	97	15.0	87	86	37	0	0	2	2
MEMPHIS	73	55	80	49	64	-2	2.9	1.7	1.8	9.7	88	15.8	82	89	51	0	0	4	2
NASHVILLE	73	52	77	44	62	0	1.3	.2	1.2	8.9	95	14.7	88	87	44	0	0	2	1
TX ABILENE	78	55	81	49	67	-2	.8	.5	.4	2.3	68	4.4	80	84	46	0	0	3	0
AMARILLO	73	46	79	38	60	-1	.8	.5	.5	2.1	106	3.3	105	88	38	0	0	2	1
AUSTIN	81	62	90	56	71	-1	1.5	.7	1.5	5.0	110	11.6	137	89	57	1	0	3	1
BEAUMONT	80	65	85	58	73	1	.3	-.7	.2	12.0	172	26.0	172	92	60	0	0	3	0
BROWNSVILLE	86	72	91	68	79	1	.1	-.4	.1	2.0	91	6.7	139	91	68	2	0	2	0
CORPUS CHRISTI	80	67	87	62	74	-1	2.2	1.6	2.1	6.2	224	8.3	129	94	76	0	0	3	1
DEL RIO	84	64	93	60	74	1	.7	.0	.7	1.2	34	2.6	43	80	47	2	0	2	1
EL PASO	87	57	90	52	72	5	1.1	.1	.1	1.1	25	1.8	134	47	15	1	0	1	0
FORT WORTH	78	59	80	53	68	1	1.6	.6	1.3	6.7	98	14.3	128	89	51	0	0	3	1
GALVESTON	76	67	78	66	72	-1	2.5	1.9	1.4	10.7	227	23.8	232	91	75	0	0	4	2
HOUSTON	80	62	87	56	71	0	3.0	2.0	1.6	15.9	235	24.3	172	92	64	0	0	3	2
LUBBOCK	78	50	84	43	64	-1	.2	-.2	.2	1.7	89	3.1	105	83	33	0	0	1	0
MIDLAND	82	53	88	47	68	-1	.1	-.2	.1	.8	65	2.9	127	82	32	0	0	1	0
SAN ANGELO	82	57	88	45	69	-1	1.0	.5	.9	1.7	65	3.5	77	83	43	0	0	2	1
SAN ANTONIO	80	63	90	55	72	0	.6	-.2	.4	3.4	82	8.4	110	90	60	1	0	4	0
VICTORIA	81	64	88	58	73	0	2.3	1.5	1.0	7.3	144	14.1	126	94	64	0	0	4	2
WACO	80	57	83	50	69	-2	1.4	.6	.9	8.5	150	14.8	157	93	54	0	0	3	2
WICHITA FALLS	77	54	79	48	65	-1	2.4	1.6	1.4	7.0	126	11.6	131	89	47	0	0	3	2
UT CEDAR CITY	69	35	73	31	52	1	.1	-.2	.2	1.9	77	6.2	154	66	19	0	3	1	0
SALT LAKE CITY	63	39	69	35	51	-2	T	T	T	2.9	71	7.5	116	79	32	0	0	2	0
VT BURLINGTON	67	42	76	28	54	5	.5	-.2	.3	5.3	104	9.3	110	72	30	0	2	2	0
VA NORFOLK	69	46	81	40	58	-3	.5	-.3	.5	9.5	138	16.8	119	82	37	0	0	1	0
RICHMOND	75	45	83	35	60	-1	.4	-.4	.4	10.5	157	17.8	136	80	31	0	0	1	0
ROANOKE	75	44	80	34	59	0	.3	-.5	.3	10.7	156	17.9	143	82	30	0	0	1	0
WA QUILLAYUTE	54	45	56	42	49	1	3.7	2.2	1.1	23.7	123	32.4	70	98	49	0	0	7	3
SEATTLE-TACOMA	57	47	61	45	52	0	1.3	.9	.5	9.5	160	14.0	91	91	44	0	0	6	1
SPOKANE	56	39	61	36	48	-2	.1	-.1	.1	3.1	112	5.3	86	89	40	0	0	4	0
YAKIMA	66	40	70	30	53	0	T	T	T	1.1	94	2.7	87	84	33	0	2	1	0
WV BECKLEY	71	45	78	35	58	3	.6	-.2	.4	8.9	128	13.3	104	73	38	0	0	2	0
CHARLESTON	76	45	85	35	61	2	.8	-.2	.6	8.5	120	13.4	103	81	27	0	0	2	1
HUNTINGTON	75	46	83	35	60	4	.8	-.1	.5	7.7	106	13.6	102	86	29	0	0	2	0
PARKERSBURG	73	45	82	32	59	1	1.4	.6	.9	10.8	144	15.3	113	92	34	0	1	2	1
WI GREEN BAY	57	36	72	27	47	-3	.9	.3	.6	4.9	108	6.7	99	89	38	0	2	4	1
LACROSSE	62	43	73	35	53	-1	1.2	.5	1.2	10.3	207	12.6	186	89	38	0	0	2	1
MADISON	67	41	74	31	54	3	.7	-.1	.3	8.9	164	11.7	153	85	35	0	1	4	0
MILWAUKEE	57	39	71	33	48	-1	1.2	.3	.5	9.8	157	13.5	144	89	39	0	0	3	0
WAUSAU	58	37	72	25	48	-1	1.2	.5	.9	4.9	102	6.7	102	93	43	0	2	2	1
WY CASPER	60	33	67	29	47	0	.4	-.1	.4	2.9	112	4.6	124	92	28	0	4	3	0
CHEYENNE	59	38	66	30	47	1	.3	-.1	.1	3.1	127	4.3	132	82	28	0	2	4	0
LANDER	58	34	64	29	46	-1	1.3	-.3	.3	3.4	102	4.7	108	83	33	0	1	2	0
SHERIDAN	60	36	70	29	48	0	1.0	.5	.6	3.4	121	4.2	101	85	34	0	1	4	1

Based on 1961-90 normals.

April Weather and Crop Summary

Weather

Wet spring weather prevailed across much of the Nation, especially from the Pacific Northwest eastward to the east-central Plains, the Great Lakes States, and the Northeast. However, in contrast to previous months, dry weather dominated in the Southwest and Southeast, allowing for river and stream flows to recede and fieldwork to progress, but raising concerns of topsoil dryness by month's end. But in the Northeast, river and lakefront flooding persisted until month's end.

Cold air frequently plunged southeastward in the wake of storms, moving across the Plains before settling across the East. As a result, temperatures averaged 4 to 6°F below normal from the central Plains to Gulf Coast States. New Orleans, LA notched its coldest April on record. Although temperatures averaged slightly above normal in the Northeast, winter clung stubbornly at times. On April 23, Syracuse, NY received 6.2 inches of snow. Three days later, 0.6 inches fell in Binghamton, NY, which pushed their seasonal snowfall to a record 122.7 inches. However, in the Southwest temperatures averaging up to 4°F above normal were accompanied by dryness. San Diego, CA received no precipitation in April (not even a trace) for the first time since rainfall record-keeping began in 1850.

While the Pacific Northwest received precipitation incrementally, areas east of the Rockies were deluged sporadically. In Portland, OR (downtown), 7.96 inches fell during April, breaking a record set in 1883. Similarly, Eugene, OR received an April-record 7.85 inches. Dayton, OH also broke a rainfall record, with 6.78 inches. But 60 percent of Dayton's total fell on 3 days (April 9, 20, and 25). In the Northeast, each successive storm renewed the threat of flash flooding, and added to an already massive runoff. Lake Champlain, along the Vermont-New York border, reached its highest level in this century.

The storm that drenched Dayton, OH on April 20 was also responsible for snow in the Northeast and record cold in the Southeast. Subfreezing temperatures even reached the Florida Panhandle on April 23. The low of 31°F in Tallahassee was that location's latest freeze by 15 days (the previous record was April 8, 1971). Another shot of cool air toward month's end dropped temperatures to 32°F as far south as Washington, DC's western suburbs on April 28. At Washington National Airport, VA, the temperature first reached 70°F on April 15, the latest spring 70-degree reading on record.

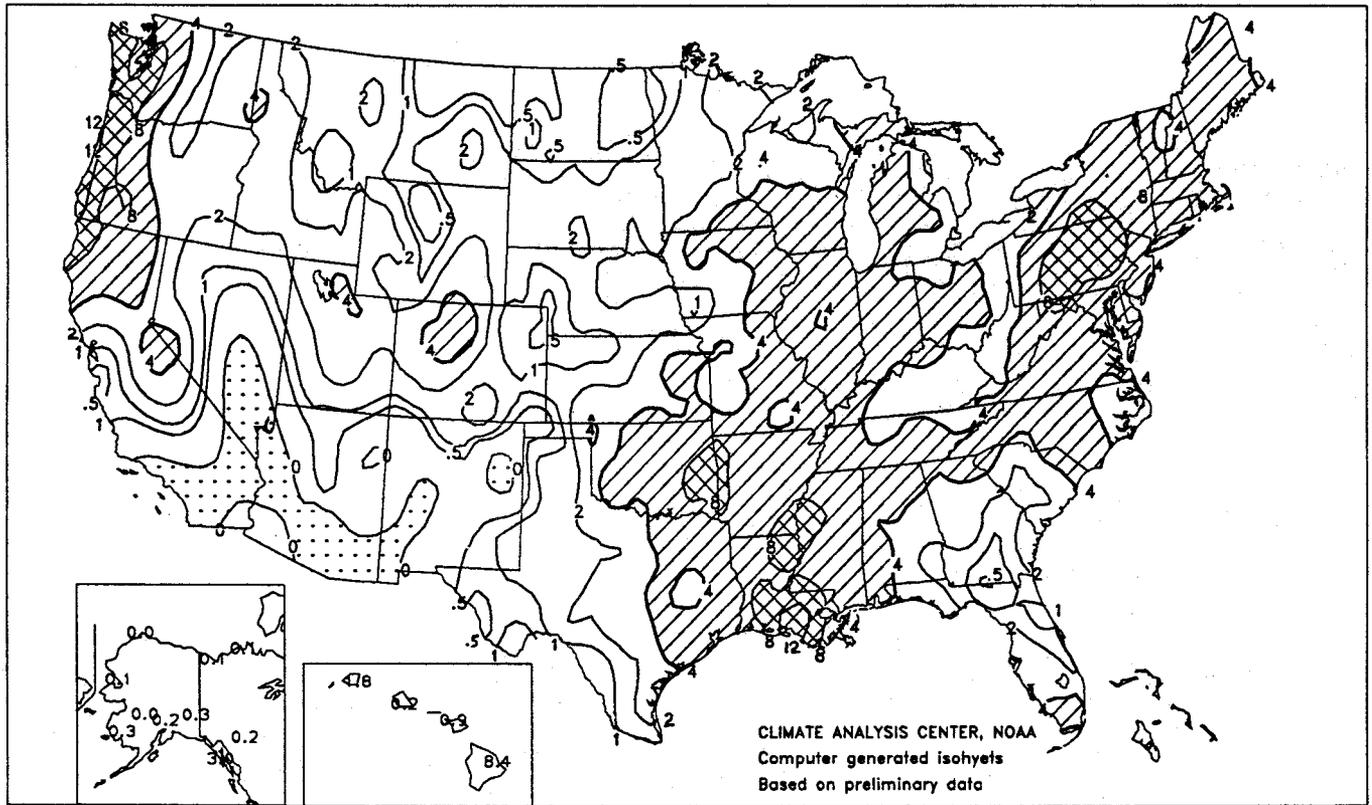
With the proliferation of strong storms crossing the United States during April, snowfalls were frequent and occasionally heavy. For example, an early month storm dropped 31 inches of snow on Cuchara, CO and 12 inches atop Mt. Mitchell, NC. A significant storm crossed the Dakotas and the western Great Lakes at mid-month, depositing up to 1 foot of snow in Eagle River, WI. Additional snow fell in the West's mountains and in the northern-tier States during the latter half of the month. By April 30, snow remained quite deep at the higher elevations of the West, including 113 inches at Alta, UT, and 91 inches at Sierra Ski Ranch, CA.

Fieldwork and Crop Progress

April conditions were mostly wet and cool. The wet conditions delayed fieldwork, while the cool temperatures hindered development of winter planted crops. By the end of the month, drier, warmer conditions allowed producers to start their spring planting and allowed increased development of winter crops. **Winter wheat** condition for the month remained good. Over 30 percent of the crop rated excellent in California, Kansas, and Oregon. Cool, cloudy weather delayed winter wheat progress. Only in California was the crop ahead of the 5-year average. By the end of the month, development was nearly 2 weeks behind last year's progress and 1 week behind the 5-year average. **Wet** weather also delayed the planting of the **spring wheat** crop. However, dry conditions at the end of the month allowed good progress. Seeding progress by the end of the month was less than 1 week later than last year and slightly more than 1 week behind the 5-year average. Producers also experienced delays planting oats, barley, and rye. **Wet** fields caused **corn** planting progress to be nearly 2 weeks behind last year and the 5-year average. Drier conditions in Georgia and Texas allowed progress to be near normal. By the beginning of May, some acreage had been planted in all the major States. Although rain caused delays early in the month, **cotton** planting progress was just a few days behind normal. The greatest planting delays occurred in the Mississippi Delta. **Rice** seeding activities averaged almost 2 weeks behind normal and nearly 3 weeks behind last year due to excessively wet fields. Arkansas and Mississippi growers experienced the greatest delays. **Wet** conditions pushed **sorghum** planting progress to about 1 week behind the 5-year average. Progress in Texas, though behind last year's pace, was slightly ahead of the 5-year average.

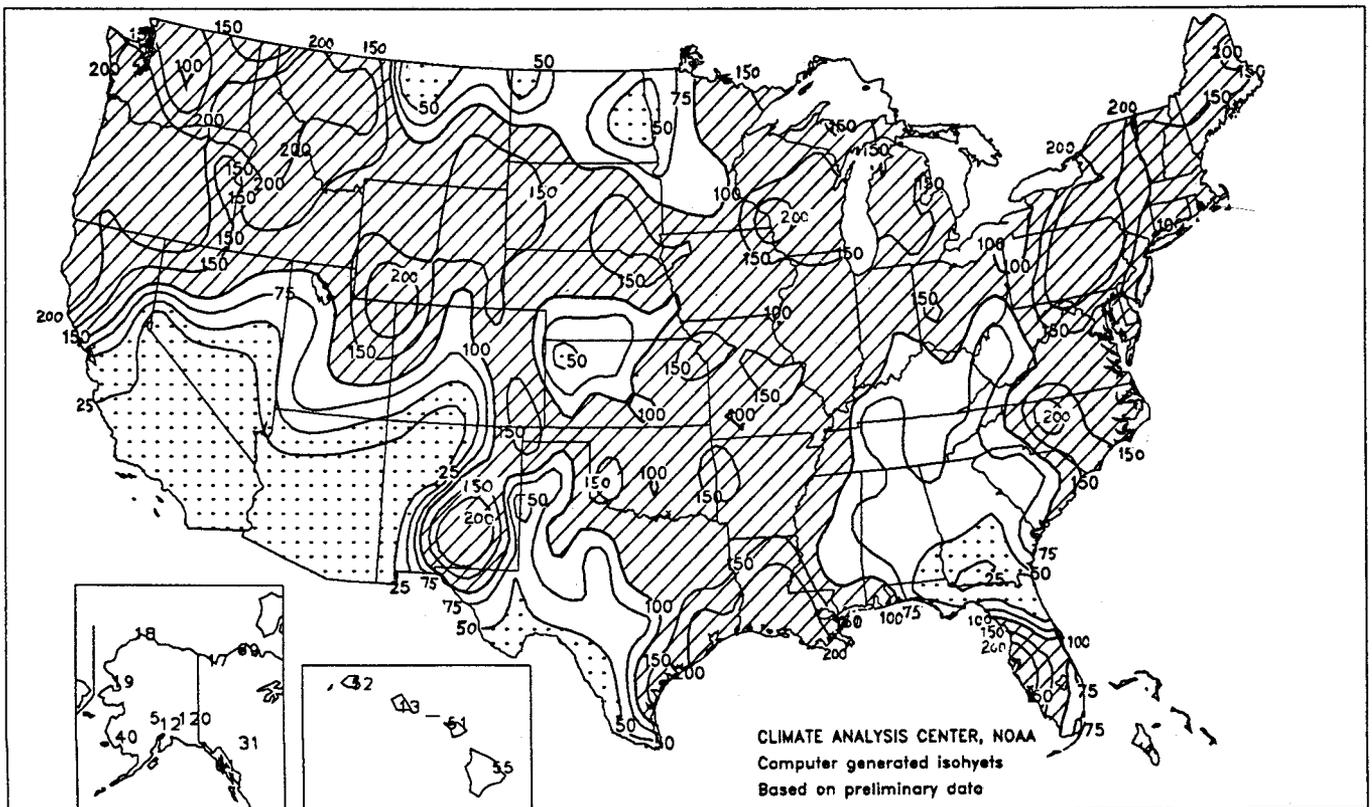
TOTAL PRECIPITATION (inches)

APR 1993



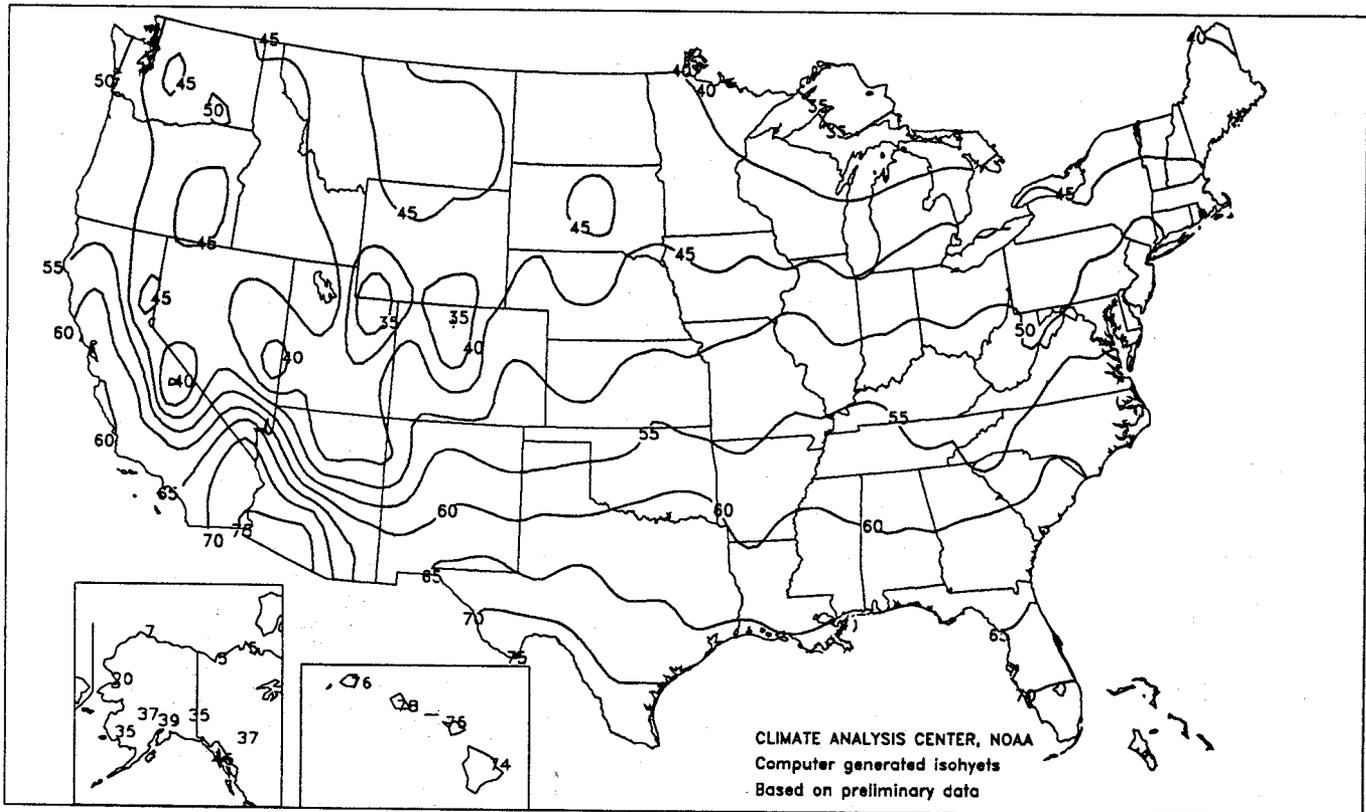
PERCENT OF NORMAL PRECIPITATION

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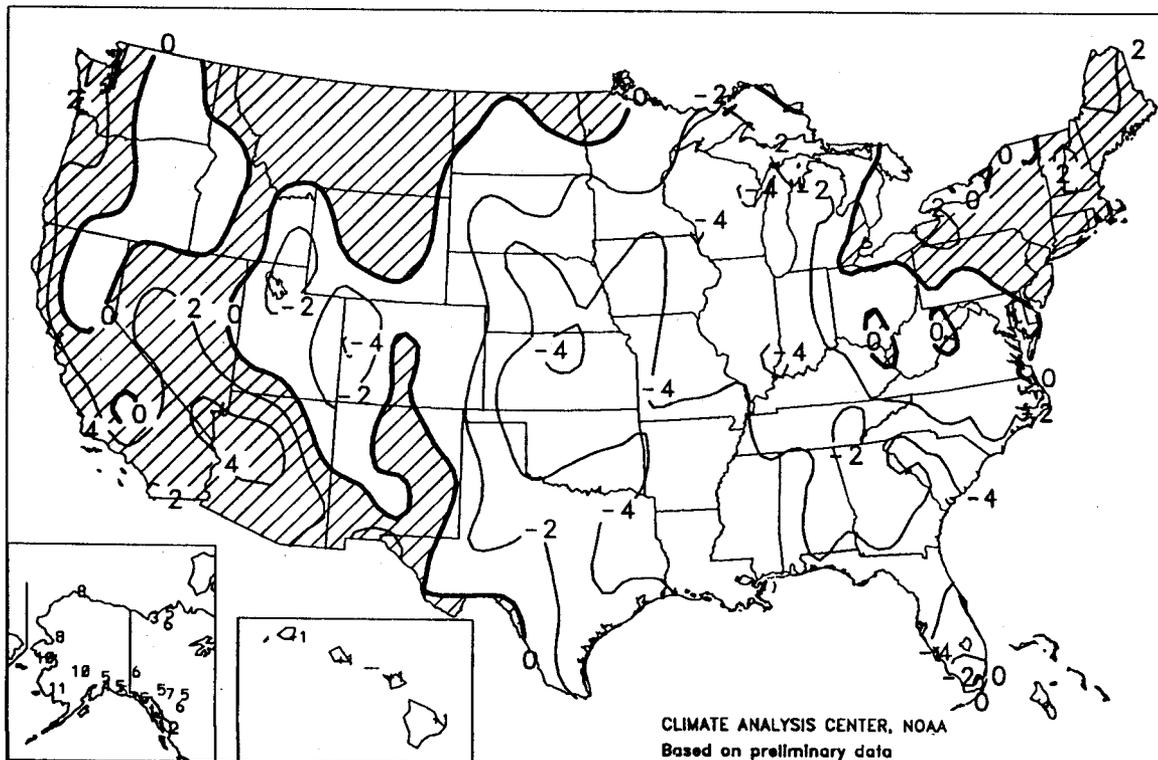
AVERAGE TEMPERATURE(°F)

APR 1993



Departure of Average Temperature from Normal(°F)

APR 1993



TEMPERATURE AND PRECIPITATION SUMMARY

April 1993

STATES AND STATIONS	Temp. °F		Precip.		STATES AND STATIONS	Temp. °F		Precip.		STATES AND STATIONS	Temp. °F		Precip.	
	AVERAGE	DEPARTURE	TOTAL	DEPARTURE		AVERAGE	DEPARTURE	TOTAL	DEPARTURE		AVERAGE	DEPARTURE	TOTAL	DEPARTURE
AL BIRMINGHAM	59	-3	3.0	-2.0	LA BATON ROUGE	64	-5	11.6	6.2	OK YOUNGSTOWN	47	0	2.7	-0.3
HUNTSVILLE	57	-5	3.5	-1.4	LAKE CHARLES	65	-3	8.2	4.9	OK OKLAHOMA CITY	56	-4	2.5	-0.3
MOBILE	62	-6	4.8	0.3	NEW ORLEANS	64	-5	6.8	2.3	TULSA	56	-6	4.6	0.9
MONTGOMERY	61	-3	3.3	-1.0	SHREVEPORT	61	-4	4.2	0.2	OR ASTORIA	49	1	9.0	4.4
AK ANCHORAGE	41	5	0.1	-0.6	ME CARIBOU	40	2	3.5	1.0	BURNS	42	-1	2.0	1.4
BARRON	7	9	T	-0.2	PORTLAND	43	0	5.7	1.6	MEFORD	51	1	1.8	0.7
FAIRBANKS	41	10	T	-0.3	MD BALTIMORE	53	-1	3.7	0.6	PENDLETON	50	0	1.8	0.8
JUNEAU	44	5	1.9	-0.9	MD SALTSMURY	53	0	4.5	1.3	PORTLAND	53	2	5.3	2.9
KODIAK	40	3	8.5	4.3	MA BOSTON	48	0	4.9	1.3	SALEM	52	3	5.6	3.2
NOME	28	10	0.2	-0.5	CHATHAM	44	0	4.4	0.7	PA ALLENTOWN	51	1	6.8	3.3
AZ FLAGSTAFF	46	4	0.3	-1.1	MI ALPENA	39	-2	3.2	0.9	ERIE	48	1	2.3	-0.9
PHOENIX	74	4	0.0	-0.2	DETOIT	48	0	3.3	0.4	HARRISBURG	51	0	6.5	3.3
PRESOTT	55	6	0.0	-0.8	FLINT	45	-1	4.6	1.6	PHILADELPHIA	54	3	4.2	0.4
TUCSON	69	3	0.0	-0.3	GRAND RAPIDS	44	-2	4.9	1.6	PITTSBURGH	50	0	3.7	0.5
WINSLOW	55	2	0.0	-0.3	HOUGHTON LAKE	40	-2	3.0	0.7	SCRANTON	50	2	7.5	4.5
YUMA	75	5	0.0	-0.1	LANSING	45	-1	4.9	1.9	WILLIAMSPORT	54	2	4.2	0.6
AR FORT SMITH	58	-4	7.3	3.4	MARQUETTE	34	-3	4.1	1.5	RI PROVIDENCE	50	2	5.0	0.9
LITTLE ROCK	59	-4	6.3	1.9	MUSKEGON	43	-2	4.8	1.9	SC CHARLESTON	62	-4	2.7	0.0
CA BAKERSFIELD	62	-1	0.0	-0.6	SAULT ST. MARIE	37	-1	3.8	1.5	COLUMBIA	59	-4	1.6	-1.6
BISHOP	55	2	0.0	-0.3	MN ALEXANDRIA	42	-1	2.2	-0.1	FLORENCE	60	-3	2.4	-0.4
EUREKA	54	4	5.9	3.1	DULUTH	37	-2	2.4	0.2	GREENVILLE	56	-4	2.9	-1.0
FRESNO	62	4	0.2	-0.8	JWY L FALLS	39	0	1.7	0.1	SD ABERDEEN	45	0	1.5	-0.3
LOS ANGELES	63	3	0.0	-0.7	MINNEAPOLIS	44	-2	2.0	-0.4	HURON	45	-2	3.2	1.1
REDDING	57	0	3.7	1.6	ROCHESTER	42	-3	4.6	1.8	RAPID CITY	44	-1	3.0	1.2
SACRAMENTO	58	0	0.6	-0.5	ST. CLOUD	42	-1	2.0	-0.3	SIoux FALLS	44	-3	2.6	0.1
SAN DIEGO	64	2	0.0	-0.9	MS GREENWOOD	60	-4	6.2	1.1	BRISTOL	53	-3	2.4	-1.1
SAN FRANCISCO	58	3	0.4	-1.0	JACKSON	61	-3	4.1	-1.4	CHATTANOOGA	58	-1	3.3	-1.0
STOCKTON	61	2	0.3	-1.1	MERIDIAN	61	-3	4.2	-1.3	KNOXVILLE	56	-2	2.5	-1.2
CO ALAMOSA	42	1	0.4	-0.1	TUPELO	59	-4	4.6	-0.6	MEMPHIS	59	-3	6.1	0.6
CO. SPRINGS	46	0	1.0	-0.4	MO CAPE GIRARDEAU	55	-3	3.6	-0.8	NASHVILLE	57	-3	3.3	-1.0
DENVER	49	0	2.1	0.4	COLUMBIA	51	-2	5.5	1.9	TX ABILENE	64	-2	0.8	-1.1
GRAND JUNCTION	50	-4	1.3	0.4	KANSAS CITY	50	-4	5.6	2.5	AMARILLO	54	-3	0.4	-0.6
PUEBLO	51	-1	0.7	-0.2	SAINT LOUIS	54	-3	6.2	2.7	AUSTIN	66	-3	2.9	0.4
CT BRIDGEPORT	49	1	3.5	-0.2	SPRINGFIELD	53	-3	3.1	-0.9	BEAUMONT	66	-3	6.4	2.9
HARTFORD	50	1	4.7	0.9	MT BILLINGS	47	2	1.9	0.1	BROWNSVILLE	73	-2	0.3	-1.2
DC WASHINGTON	55	-2	3.6	0.9	GLASGOW	46	2	0.4	-0.3	CORPUS CHRISTI	70	-3	3.3	1.6
FL APALACHICOLA	63	-5	0.9	-2.3	GREAT FALLS	44	0	3.4	2.0	DEL RIO	72	1	0.7	-1.6
DAYTONA BEACH	65	-4	0.3	-1.9	HAVRE	45	1	0.2	-0.7	EL PASO	67	4	0.1	-0.1
FT. MYERS	67	-6	2.5	1.0	HELENA	44	1	1.6	0.7	FORT WORTH	63	-1	3.5	-0.2
JACKSONVILLE	64	-5	0.8	-1.7	KALISPELL	44	1	2.2	1.1	GALVESTON	67	-2	5.4	3.0
KEY WEST	74	-3	1.8	0.0	MILES CITY	47	1	2.2	0.9	HOUSTON	66	-2	7.9	4.4
MIAMI	74	-1	3.1	0.2	MISSOULA	45	1	1.8	0.9	LAREDO	74	-2	0.7	-0.5
ORLANDO	68	-3	1.8	0.0	NE GRAND ISLAND	48	-3	1.6	-0.9	LUBBOCK	60	-1	1.2	0.2
TALLAHASSEE	62	-4	0.4	-3.3	LINCOLN	48	-4	2.4	-0.3	MIDLAND	63	-2	0.6	-0.2
TAMPA	67	-4	2.4	1.3	NORFOLK	47	-3	3.7	1.4	SAN ANGELO	66	-1	1.5	-0.2
WEST PALM BEACH	71	-3	2.5	-0.4	NORTH PLATTE	46	-3	1.8	-0.2	SAN ANTONIO	67	-2	1.8	-0.7
GA ATHENS	58	-4	2.7	-0.3	OMAHA	48	-4	2.3	-0.4	VICTORIA	68	-2	4.4	1.7
ATLANTA	59	-2	2.8	-1.5	SCOTTSDRUFF	46	0	2.0	0.4	WACO	64	-3	3.6	0.4
AUGUSTA	61	-2	1.5	-1.8	VALENTINE	44	-5	3.5	1.4	WICHITA FALLS	60	-3	3.2	0.2
MACON	60	-4	1.9	-1.6	NV ELKO	43	0	0.2	-0.6	UT BLANDING	--	--	0.5	-0.2
SAVANNAH	62	-4	3.2	0.2	ELY	42	0	0.2	-0.8	CEDAR CITY	47	0	1.0	-0.1
HI HILO	74	1	9.1	-6.2	LAS VEGAS	67	4	T	-0.2	VT SALT LAKE CITY	49	-1	1.5	-0.6
HONOLULU	77	2	0.2	-1.3	RENO	49	0	T	-0.4	VA BURLINGTON	45	1	3.8	1.0
KAHULUI	75	1	0.9	-0.9	WINNEMUCCA	47	1	0.4	-0.4	VA LYNCHBURG	56	0	3.6	0.7
LIHUE	76	2	2.0	-1.5	NH CONCORD	46	2	3.8	0.9	NORFOLK	57	0	3.6	0.5
ID BOISE	48	-1	2.1	0.8	NJ ATLANTIC CITY	51	0	2.2	-1.3	RICHMOND	56	-1	3.2	0.3
LEWISTON	50	0	2.8	1.6	NM ALBUQUERQUE	57	2	0.0	-0.5	ROANOKE	54	-1	2.8	-0.4
POCATELLO	44	0	1.5	0.3	CLOVIS	57	0	T	-0.8	WA COLVILLE	46	0	1.9	0.8
IL CAIRO	--	--	--	--	ROSWELL	62	1	1.1	0.7	QUILLAYUTE	48	2	12.3	4.8
CHICAGO	45	-4	4.6	0.9	NY ALBANY	48	2	5.4	2.4	SEATTLE-TACOMA	51	2	4.5	2.2
MOLINE	49	-2	5.5	1.6	BINGHAMTON	45	0	7.1	4.0	SPOKANE	46	0	1.9	0.7
PEORIA	50	-2	4.9	1.1	BUFFALO	47	2	2.6	-0.3	WALLA WALLA	52	0	3.7	2.3
QUINCY	50	-3	3.3	-0.5	NEW YORK	53	1	3.5	-0.3	YAKIMA	48	-1	0.5	0.0
ROCKFORD	46	-2	6.1	2.5	ROCHESTER	47	1	3.1	0.5	WV BECKLEY	51	0	2.5	-0.9
SPRINGFIELD	51	-2	4.6	0.9	SYRACUSE	47	1	6.6	3.2	CHARLESTON	55	0	1.8	-1.5
IN EVANSVILLE	54	-4	4.4	0.2	NC ASHEVILLE	53	-3	3.2	-0.7	ELKINS	48	-1	3.9	0.1
FORT WAYNE	49	-1	4.3	0.9	CHARLOTTE	59	-1	2.0	-0.7	HUNTINGTON	54	1	2.2	-1.4
INDIANAPOLIS	51	-2	3.8	0.0	GREENSBORO	57	-1	6.1	3.2	PARKERSBURG	52	-1	2.5	-1.0
SOUTH BEND	47	-2	3.6	-0.2	HATTERAS	57	-2	4.0	0.4	WI GREEN BAY	40	-4	4.0	1.6
IA DES MOINES	47	-3	3.0	-0.6	NEW BERN	59	-3	3.7	0.5	LACROSSE	44	-4	6.6	3.7
DUBUQUE	44	-3	4.5	0.3	RALEIGH	57	-2	4.8	2.2	MADISON	44	-3	5.3	2.2
SIoux CITY	46	-4	3.7	1.3	WILMINGTON	60	-1	5.8	2.7	MILWAUKEE	43	-2	6.6	3.1
WATERLOO	46	-2	3.7	0.4	ND BISMARCK	42	-1	1.3	-0.4	WAUSAU	40	-3	4.2	1.4
KS CONCORDIA	49	-3	2.1	-0.2	FARGO	43	0	0.7	-1.1	WY CASPER	44	1	2.4	0.8
DODGE CITY	50	-4	2.9	0.8	GRAND FORKS	42	0	0.4	-1.0	CHEYENNE	42	0	2.5	1.1
GOODLAND	47	-3	0.4	-0.9	WILLISTON	44	1	0.4	-0.9	LANDER	44	0	1.9	-0.2
TOPEKA	50	-5	5.4	2.3	OH AKRON-CANTON	48	-1	4.0	0.8	SHERIDAN	45	1	2.5	0.8
WICHITA	52	-5	1.5	-1.3	CINCINNATI	52	-2	3.1	-0.6	PR SAN JUAN	80	1	6.6	2.8
KY BOWLING GREEN	55	-3	2.6	-1.8	CLEVELAND	48	0	3.2	0.0					
JACKSON	55	2	3.3	-0.7	COLUMBUS	50	1	4.5	1.0					
LEXINGTON	53	-2	3.5	-0.4	DAYTON	50	-1	6.8	3.3					
LOUISVILLE	55	-2	3.6	-0.7	MANSFIELD	48	-1	6.1	2.5					
PADUCAH	56	-2	5.1	0.1	TOLEDO	48	1	3.1	0.1					

Based on 1961-90 normals.

HEATING DEGREE DAYS (Base 65° F) April 1993

STATES AND STATIONS	TOTAL	DEP. FROM NORMAL	STATES AND STATIONS	TOTAL	DEP. FROM NORMAL	STATES AND STATIONS	TOTAL	DEP. FROM NORMAL
AL BIRMINGHAM	197	87	SHREVEPORT	154	85	DAYTON	444	39
MOBILE	110	67	ME CARIBOU	748	-83	TOLEDO	493	-23
MONTGOMERY	141	69	PORTLAND	645	-21	YOUNGSTOWN	526	-2
AK ANCHORAGE	725	-163	MD BALTIMORE	369	35	OK OKLAHOMA CITY	265	81
BARROW	1743	-258	SALISBURY	347	20	TULSA	280	112
FAIRBANKS	711	-333	MA BOSTON	493	4	OR ASTORIA	468	-54
JUNEAU	612	-165	CHATHAM	620	8	BURNS	686	29
KODIAK	729	-81	MI ALPENA	772	31	MEDFORD	397	-44
NOME	1115	-298	DETROIT	506	-22	PENDLETON	432	-9
AZ FLAGSTAFF	551	-151	FLINT	583	7	PORTLAND	366	-72
PHOENIX	0	-52	GRAND RAPIDS	624	63	SALEM	373	-110
PRESCOTT	292	-176	HOUGHTON LAKE	737	44	PA ALLENTOWN	424	-26
TUCSON	28	-58	LANSING	604	43	ERIE	507	-96
WINSLOW	298	-62	MARQUETTE	910	82	HARRISBURG	371	-13
YUMA	0	-37	MUSKEGON	643	49	PHILADELPHIA	314	-49
AR FORT SMITH	230	83	SAULT ST MARIE	834	27	PITTSBURGH	445	-2
LITTLE ROCK	211	87	MN ALEXANDRIA	681	-18	SCRANTON	447	-54
CA BAKERSFIELD	113	-24	DULUTH	825	24	RI PROVIDENCE	455	-58
EUREKA	337	-131	INT'L FALLS	787	-17	SC CHARLESTON	132	63
FRESNO	113	-74	MINNEAPOLIS	617	47	COLUMBIA	200	113
LOS ANGELES	69	-111	ROCHESTER	693	81	FLORENCE	158	67
REDDING	242	16	SAINT CLOUD	695	35	GREENVILLE	276	122
SACRAMENTO	198	-31	MS GREENWOOD	171	73	SD ABERDEEN	602	-10
SAN DIEGO	44	-80	JACKSON	163	86	HURON	602	20
SAN FRANCISCO	201	-105	MERIDIAN	153	68	RAPID CITY	636	24
STOCKTON	147	-59	MO CAPE GIRARDEAU	312	88	SIOUX FALLS	621	60
CO DENVER	489	-39	COLUMBIA	396	80	TN CHATTANOOGA	197	26
GRAND JCT.	446	43	KANSAS CITY	431	117	KNOXVILLE	276	95
PUEBLO	426	5	SAINT LOUIS	327	48	MEMPHIS	192	66
CT BRIDGEPORT	465	-27	SPRINGFIELD	361	-27	NASHVILLE	252	66
HARTFORD	454	-32	MT BILLINGS	531	-81	TX ABILENE	125	27
DE WILMINGTON	361	-17	GLASGOW	570	-105	AMARILLO	317	46
DC WASHINGTON	307	50	GREAT FALLS	629	-40	AUSTIN	54	11
FL APALACHICOLA	77	52	HAVRE	585	-84	BEAUMONT	55	26
DAYTONA BEACH	49	34	HELENA	617	-64	BROWNSVILLE	1	1
FORT MYERS	24	24	KALISPELL	615	-57	CORPUS CHRISTI	11	4
JACKSONVILLE	95	73	MILES CITY	540	-63	DEL RIO	5	-10
KEY WEST	0	0	MISSOULA	603	-30	EL PASO	53	-40
MIAMI	0	0	NE GRAND ISLAND	518	71	FORT WORTH	120	44
ORLANDO	14	14	LINCOLN	519	102	GALVESTON	30	11
TALLAHASSEE	102	52	NORFOLK	545	56	HOUSTON	62	29
TAMPA	24	24	NORTH PLATTE	578	56	LUBBOCK	176	-2
W. PALM BEACH	1	1	OMAHA	510	120	MIDLAND-ODESSA	118	16
GA ATLANTA	184	51	SCOTTSBLUFF	567	9	SAN ANGELO	89	16
AUGUSTA	148	56	VALENTINE	621	45	SAN ANTONIO	42	12
MACON	164	103	NV ELY	677	-46	VICTORIA	26	7
SAVANNAH	113	71	LAS VEGAS	32	-99	WACO	111	41
ID BOISE	501	9	RENO	480	-78	WICHITA FALLS	169	51
LEWISTON	439	-5	WINNEMUCCA	536	-55	UT BLANDING	437	-100
POCATELLO	612	0	NH CONCORD	574	-53	CEDAR CITY	508	-32
IL CHICAGO	595	109	NJ ATLANTIC CITY	429	9	SALT LAKE CITY	489	15
MOLINE	488	50	NM ALBUQUERQUE	238	-64	VT BURLINGTON	584	-85
PEORIA	450	39	CLOVIS	243	-29	VA LYNCHBURG	270	7
QUINCY	432	64	ROSWELL	122	-12	NORFOLK	246	27
ROCKFORD	581	68	NY ALBANY	492	-60	RICHMOND	280	54
SPRINGFIELD	419	65	BINGHAMTON	599	-22	ROANOKE	314	46
IN EVANSVILLE	322	55	BUFFALO	526	-62	WA COLVILLE	561	-3
FORT WAYNE	484	10	NEW YORK	369	-24	QUILLAYUTE	498	-72
INDIANAPOLIS	424	42	ROCHESTER	538	-32	SEATTLE-TACOMA	415	-74
SOUTH BEND	536	41	SYRACUSE	537	-30	SPOKANE	578	2
IA DES MOINES	528	93	NC ASHEVILLE	365	82	YAKIMA	505	31
DUBUQUE	604	70	CAPE HATTERAS	237	51	WV BECKLEY	414	9
SIOUX CITY	550	87	CHARLOTTE	199	44	CHARLESTON	306	8
WATERLOO	567	30	GREENSBORO	244	29	HUNTINGTON	323	30
KS CONCORDIA	459	92	NEW BERN	193	64	PARKERSBURG	383	52
DODGE CITY	439	108	RALEIGH-DURHAM	244	63	WI GREEN BAY	731	92
GOODLAND	537	48	WILMINGTON	169	75	LA CROSSE	619	85
TOPEKA	439	118	ND BISMARCK	678	3	MADISON	633	57
WICHITA	373	98	FARGO	643	-44	MILWAUKEE	654	42
KY BOWLING GREEN	315	73	GRAND FORKS	695	-34	WAUSAU	729	72
LEXINGTON	363	57	WILLISTON	630	-66	WY CASPER	625	-62
LOUISVILLE	299	35	OH AKRON-CANTON	506	14	CHEYENNE	680	-16
LA BATON ROUGE	104	70	CLEVELAND	519	12	LANDER	635	-46
LAKE CHARLES	74	45	COLUMBUS	434	26	SHERIDAN	599	-76
NEW ORLEANS	82	58	CINCINNATI	384	34			

Based on 1961-90 normals.

National Agricultural Summary

April 26 - May 2, 1993

HIGHLIGHTS: Dry weather dominated the first half of the week across most of the Nation. The drier conditions allowed producers to fertilize their fields and start planting. During the second half of the week, rain delayed fieldwork in the central portion of the Nation. The precipitation reduced stress to emerged crops in central and southern Texas. Temperatures were above normal in the Southwest and Northeast, but below normal in the Southeast and Great Plains.

SMALL GRAINS: Winter wheat remained in mostly good condition in the 19 major producing States. Progress of this year's crop was 1 week behind normal. Heading of the winter wheat crop stood at 12 percent (%), compared with 33% last year and the 5-year average of 21%. Dry, sunny conditions allowed the crop to progress well in the Southeast and Kansas. Some wheat in the Cross Timbers region of Texas had rust problems. Water damage occurred to some wheat in Missouri. Although insect populations increased in Texas, insects were not yet a problem. Favorable conditions across the five major spring wheat States allowed planting progress to gain momentum. Spring wheat acreage was 43% planted, compared with 60% last year and 62% average. Just 3% of the crop had emerged, compared with 26% last year and 23% average. The greatest planting progress occurred in South Dakota. Nationally, about 33% of the oats and around 40% of the barley acreage had been planted.

CORN: Corn planting progress remained nearly 2 weeks behind average. Planting was 9% complete in the 17 major corn-producing States, compared with 28% last year and 32% average. All 17 major States reported some progress. Progress in Texas and Georgia equalled or nearly equalled the 5-year average. Wet fields delayed planting in Kansas. In Missouri, progress was 2½ weeks behind normal. Recent rains in Texas aided development of the crop in the Coastal Bend area.

COTTON: Cotton planting progress remained behind normal with 28% planted, compared with 38% last year and 33% average. Planting continued in Arkansas where conditions allowed. Many producers in Texas were waiting for warmer ground temperatures before continuing to plant. More moisture was needed for cotton in the Texas Low Plains. Wind damage occurred in some cotton fields in Arizona and Texas.

SORGHUM: Planting progress in the 12 major States was about 1 week behind average with 25% of the acreage planted. This compared with 30% last year and 27% average. Crop progress in the Blacklands of Texas was about 1 month behind normal. Recent rains in Texas boosted the crop in the Coastal Bend region. The Texas crop condition was 78% of normal, compared with 85% of normal last year. Sorghum planting continued in Arkansas as weather allowed.

RICE: Rice planting progress in the five major States reached 29% complete, compared with 73% last year and 51% average. Progress was about 2 weeks behind average. About 16% of the crop emerged, compared with 43% last year and 28% average. Rice planting activities continued in the Texas Upper Coast at a fast pace, but remained behind schedule. Arkansas planting continued where conditions allowed. The crop was rated mostly fair in Louisiana.

OTHER FIELD CROPS: Onion seeding continued but was trailing last year's progress and the 5-year average in Colorado and Idaho. Onions were in good condition in Georgia, Colorado, and

Idaho. Harvesting advanced in Arizona and Texas. Harvest progress in Georgia stood at 2%, compared with 34% last year and 42% average. Sugar beet planting moved ahead of normal and average in the Northern Plains States. Planting progress lagged the 5-year average in Idaho and Colorado. California new-crop sugar beets were growing well. Harvest of California over-winter sugar beets remained active. Potato planting activities continued across the Nation. Progress was behind the 5-year average in Idaho and Minnesota. About half of the Malheur County, Oregon acreage and half of Colorado's summer potato acreage are planted. Producers in New York started planting where conditions allowed. Harvest remained active in Florida and California. Tobacco condition ranged from fair to good in Kentucky, Tennessee, and the Southeast. Peanut planting advanced in the South and Southeast, although progress was behind last year and average in most areas. Early emerged fields in Georgia needed rain.

FRUIT AND NUTS: Near-ideal weather occurred over the Florida citrus areas. However, lack of rain forced producers to irrigate in many areas. Some light colored foliage showed stress. Grapefruit and Valencia orange harvests remained active. Grapefruit, Valencia oranges, lemons, and peaches were harvested in central and western Arizona. The California navel orange harvest reached 90% completion. Grape growers treated their vineyards for mildew and nematodes. Apple trees continued to bloom across the Nation. Light bloom could reduce fruit set of golden and red delicious apples in Washington. The apple crop in the Southeast ranged from fair to good. Peaches rated good in Georgia. The peach harvest was underway in California but had not yet started in Georgia. Nut producers in California fertilized and sprayed their crops for blight.

VEGETABLES: Cool weather limited growth of vegetables in Florida and Georgia. Frost damaged some sweetcorn in the Zellwood area of Florida. Vegetable planting began in Maryland and Delaware, but was delayed in New York by wet conditions. Planting progress in South Carolina was slightly behind last year and average. Wet conditions have pushed the planting of green peas in Minnesota well behind last year's progress and the 5-year average. Wind and sand damaged peppers and watermelons in some areas of Texas. Vegetables in North Carolina rated mostly good. The condition of the Georgia watermelon crop rated good. The Rio Grande watermelon harvest should begin in a week. Cucumber picking and packing began in the westside area of California. Other vegetable harvests continued in Florida, Arizona, and California.

PASTURE AND LIVESTOCK: Pastures continued in good condition over most of the Nation. Rain-soaked pastures were damaged by cattle in Washington. Rain was needed for pastures in southern Texas and New Mexico. Feed supplies were adequate in all areas except for Washington, where it rated short. Livestock condition remained good for most of the Nation. In Iowa, livestock condition improved from the previous week. Scours were still a problem for newborn calves in South Dakota. Producers were moving cattle to pastures in California, Kansas, and South Dakota.

Crop Progress

for the Week Ending May 2, 1993

COTTON
(Percent Planted)

	Current	Last Wk	1992	Avg.
AL	40	28	70	64
AZ	76	62	69	78
AR	16	2	21	17
CA	85	70	90	88
GA	35	14	35	22
LA	34	5	74	48
MS	11	1	53	45
MO	7	0	14	15
NM	61	47	74	79
NC	12	3	14	21
OK	3	2	2	4
SC	25	8	28	27
TN	6	0	30	24
TX	23	18	22	19
14 States	28	18	38	33

These 14 States produced 99% of the 1992 cotton crop.

WINTER WHEAT
(Percent Headed)

	Current	Last Wk	1992	Avg.
AR	34	12	68	71
CA	96	95	96	91
CO	0	0	0	0
GA	86	49	96	96
ID	0	0	0	0
IL	0	0	3	4
IN	0	0	0	0
KS	0	0	25	10
MI	0	0	0	0
MO	0	0	13	12
MT	0	0	0	0
NE	0	0	0	0
NC	30	15	71	65
OH	0	0	0	0
OK	18	4	89	50
OR	0	0	0	0
SD	0	0	0	0
TX	45	22	63	48
WA	0	0	0	0
19 States	12	5	33	21

These 19 States produced 90% of the 1992 winter wheat crop.

RICE
(Percent Emerged)

	Current	Last Wk	1992	Avg.
AR	3	NA	44	17
CA	0	NA	0	0
LA	46	NA	67	56
MS	5	NA	43	27
TX	40	NA	43	56
5 States	16	NA	43	28

These 5 States produced 97% of the 1992 rice crop.

GRAIN SORGHUM
(Percent Planted)

	Current	Last Wk	1992	Avg.
AR	23	17	69	42
CO	0	0	7	1
IL	0	0	3	1
KS	0	0	2	2
LA	23	5	57	53
MS	31	20	55	49
MO	2	0	15	11
NE	0	0	0	1
NM	9	1	5	NA
OK	3	2	6	5
SD	0	0	0	0
TX	63	54	65	60
12 States	25	21	30	NA
Excl. States with NA	25	21	30	27

These 12 States produced 99% of the 1992 grain sorghum crop.

CORN
(Percent Planted)

	Current	Last Wk	1992	Avg.
CO	28	6	37	27
GA	96	88	98	96
IL	1	0	36	46
IN	3	2	18	32
IA	3	0	19	27
KS	25	10	65	50
KY	28	10	59	42
MI	1	0	2	10
MN	4	0	21	19
MO	10	3	39	52
NE	9	0	37	33
NC	61	40	84	74
OH	4	0	10	28
PA	3	0	6	11
SD	3	0	15	9
TX	84	62	83	88
WI	1	0	4	8
17 States	9	4	28	32

These 17 States produced 94% of the 1992 corn crop.

SPRING WHEAT
(Percent Emerged)

	Current	Last Wk	1992	Avg.
ID	11	NA	75	54
MN	3	NA	12	31
MT	5	NA	32	21
ND	2	NA	14	11
SD	1	NA	61	52
5 States	3	NA	26	23

These 5 States produced 96% of the 1992 spring wheat crop.

RICE
(Percent Planted)

	Current	Last Wk	1992	Avg.
AR	15	6	84	44
CA	3	1	15	12
LA	64	50	81	70
MS	14	7	78	55
TX	63	45	75	83
5 States	29	19	73	51

These 5 States produced 97% of the 1992 rice crop.

SPRING WHEAT
(Percent Planted)

	Current	Last Wk	1992	Avg.
ID	51	33	95	82
MN	48	22	42	67
MT	46	21	84	70
ND	36	11	45	49
SD	58	17	97	89
5 States	43	16	60	62

These 5 States produced 96% of the 1992 spring wheat crop.

Crop Condition
(Percent)

for the Week Ending May 2, 1993

WINTER WHEAT

State	VP	P	F	G	EX
AR	0	0	35	65	0
CA	0	0	5	50	45
CO	0	4	15	56	25
GA	0	13	38	49	0
ID	2	3	24	61	10
IL	0	0	13	83	4
IN	0	3	14	72	11
KS	0	1	5	62	32
MI	3	12	35	40	10
MO	0	4	58	37	1
MT	0	1	23	58	18
NE	0	0	18	66	16
NC	0	0	29	71	0
OH	2	8	33	44	13
OK	0	0	21	79	0
OR	0	2	9	47	42
SD	0	2	6	61	31
TX	0	3	51	41	5
WA	0	0	4	96	0
19 State	0	2	20	62	16
Prev Week	0	2	19	62	17
Prev Year	2	11	35	45	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 0.18 to 1.05 in. north; 0.20 to 1.75 in. central; 0.05 to 2.65 in. south. Temperatures 2 to 7° below normal north; 2 to 6° below normal central; 4 to 7° below normal south. Lows 36 to 49° north; 38 to 49° central; 42 to 53° south. Highs 74 to 79° north; 77 to 80° central; 78 to 81° south.

Days suitable for fieldwork 5.4. Soil moisture 4% short, 86% adequate, 10% surplus. Acreage prepared 79%, 88% 1992, 83% avg. Corn planted 73%, 93% 1992, 87% avg. Sorghum planted 16%, 22% 1992, 29% avg. Peanuts planted 35%, 42% 1992, 42% avg. Wheat headed 49%, 85% 1992, 86% avg. Wheat turning color 12%, 24% 1992, 30% avg. Wheat 3% poor, 38% fair, 59% good. Pasture 36% fair, 62% good, 2% excellent. Primary activities: Harvesting timber; land preparation; soil testing; planting corn, cotton, peanuts, soybeans, spring vegetables; applying fertilizer; spraying fruit; marketing cattle; general care of livestock, poultry, catfish.

ARIZONA: Sunny, warm throughout period statewide. Few thunderstorms 28th north central, east central; 29th east central, southeast. Temperatures 2 to 7° above normal. Extremes 28°; 88° higher elevation, 42°; 101° deserts.

Cotton planting active. Planted 76%, 69% 1992, 78% avg. Activities included: Irrigating, planting, pesticide applications, pest monitoring. Cotton condition fair to good, insects light to moderate, weeds light, wind damage some areas. Alfalfa good. Harvest activities moderate west, central; light, eastern. Weeds, light; insect infestations moderate to heavy statewide; disease light. Small grains heading 97%, 96% 1992, 96% avg. Fields in mostly good condition. Western areas vegetable harvest wrapping up; limited volume cabbage available. Broccoli, cabbage, carrots, mixed greens, leaf lettuce, green onions, romaine lettuce, kale, parsley, dry onions, potatoes, turnips, radishes, spinach available, central. Fruit harvest limited to valencia oranges, lemons, grapefruit, peaches available both western, central areas. Cattle, calves mostly good northern, central; good southeast. Stockwater supplies mostly adequate northern, adequate central, adequate to surplus southeast. Soil moisture short to adequate, north, southeast; adequate, central. Ranges, pastures mostly good north, central, excellent southeast. Feed supplies were rated average north, above average central, average to above average southeast. Insect damage light.

ARKANSAS: Cool wet week, temperatures below normal. Scattered showers, thunderstorms beginning weekend, rainfall heaviest in eastern areas. Extremes 38°; 83°. Rainfall 0.58 to 3.04 in.

Days suitable for fieldwork 4. Moderate rate of crop growth. Soil moisture supplies 2% short, 37% adequate, 61% surplus. Producers continued to prepare land for planting as weather allowed. Wheat condition fair to good. Producers continued to apply burn-down chemicals to rice fields in dry areas. Fruit crop good condition. Vegetable crop good condition. Corn 64% planted, 94% 1992, 86% avg. Rice, sorghum, cotton planting continued as weather allowed. Livestock good. Producer feeding hay, supplies adequate. Pasture good condition.

CALIFORNIA: Last week was mostly dry with warmer than normal temperatures. Precipitation 0.80 in. at Tulelake in the northeast corner. The high temperature topped 100° at Imperial.

Open weather permitted good progress field activities most areas. Small grains excellent growth. Seeding gained momentum, higher elevation fields. Rice seeding hampered somewhat, cool temperatures. Ground preparation, preplant treatments water weevils, weeds. Cotton planting rapidly winding down San Joaquin Valley; desert area seeding neared completion. Oats, winter forage

cut silage, green chopped. Established alfalfa irrigated, sprayed weevils, cut hay. Corn, dry edible beans, safflower, sugarbeets, sunflowers planted. Early seeded fields growing well. New crop sugarbeets irrigated, fertilized, thinned, treated aphids, mildew. Harvest over-wintered sugarbeets full swing. Grape growers irrigating; fertilizing, discing, treating for mildew and nematodes. Stonefruit thinned. Freestone peaches, nectarines picked in Coachella Valley. Cherry harvest active San Joaquin County. Apples treated for codling moth. Almonds fertilized. Walnuts sprayed for blight. Avocado, grapefruit, lemon harvests active. Navel orange picking 90% complete. Harvesting Valencia oranges for export active. Asparagus harvest continued San Joaquin Delta, Yuba. Bell pepper planting continued westside, San Joaquin Valley. Broccoli harvest was moderate Salinas-Watsonville, Santa Maria; generally good quality. Westside winding down. Cabbage harvest continued westside. Carrot harvest continued Coachella Valley. Central coast cauliflower harvest light, variable quality. Cucumber picking, packing began westside. Fresh market tomato harvest began Coachella Valley, planting continued other regions. Head lettuce harvest seasonally increasing Salinas-Watsonville, light in Santa Maria. Westside winding down. Harvest leaf, romaine lettuce Salinas-Watsonville fairly heavy, variable quality. Melon planting began Blythe, San Jacinto districts. Fields prepared Yuba. Potato harvest continues Coachella Valley. Processing tomatoes weeded, thinned westside; planting continues other areas. Squash harvest increasing westside, Coachella Valley. Sweet corn harvested Coachella Valley; planting continued westside. Other crops harvested included: radishes, green onions, peas, turnips, oriental vegetables. Range, pastures excellent condition. Foothill grasses blooming, maturing rapidly. Ground moisture declining as rains further apart. Upper ranges looking good. Cattle, feed conditions good. Cattle movement increasing.

COLORADO: There were isolated showers on the 26th, widespread showers, thunderstorms on 27th, 28th as a fairly strong system moved across the State. Most of the major River Basins 0.30 to 0.40 in. of moisture except for the Rio Grande Basin, where amounts were less than 0.10 in. Greatest amounts were around 1.00 in. southeast. Another system moved through on the night of the 30th, morning of 1st with light rain or snow showers. Southeast received most of the moisture. Dry and warm on the 2nd. Temperatures near normal west of the Continental Divide, 2 to 4° above normal in the east.

Days suitable for fieldwork 5.4. Soil moisture 1% very short, 18% short, 73% adequate, 8% surplus. Spring barley seeded 65%, 85% 1992, 80% avg.; emerged 40%, 44% 1992, 46% avg. Oats seeded 52%, 78% 1992, 71% avg. Spring wheat seeded 23%, 47% 1992, 53% avg.; emerged 15%, 13% 1992, 17% avg. Sugarbeets planted 93%, 91% 1992, 94% avg. Dry onions planted 80%, 92% 1992, 81% avg.; 2% poor, 6% fair, 92% good to excellent. Corn planted 28%, 37% 1992, 27% avg. Summer potatoes are 50% planted, fall potato planting is just getting underway. Winter wheat jointed 31%, 59% 1992, 42% avg. Winter wheat 4% poor, 15% fair, 56% good, 25% excellent. Cows calved 87%, 88% 1992, 88% avg.; ewes lambled 87%, 91% 1992, 88% avg. Livestock mostly good to excellent. Pasture, range feed good.

FLORIDA: Temperatures 4 to 6° below normal northern areas 2 to 5° below normal central areas, near to slightly below normal southeastern areas. Highs; low, mid 80s north, mid, upper 80s central, south. Lows; mid 40s north, upper 40s to mid 50s central, upper 50s to upper 60s south. Rain confined mainly to western Panhandle, 0.50 to 1.00 in. totals common.

Soil moisture short to adequate. Peanut, cotton planting active. Some peanuts emerging. Wheat heading out. Corn growth slowed by cooler weather. Tobacco development some areas set back couple weeks by April 23rd frost. Sugarcane making good progress. Near ideal weather, very little rain, irrigation all citrus areas. Bloom continues. Stress showing in light colored foliage. Valencia harvest active. White grapefruit going to processors, colored grapefruit moving half and half to fresh, processing. Caretakers cutting cover crops, post bloom spraying, hedging, topping. Another dry week in major vegetable producing areas. Cooler than normal temperatures delaying growth. April 23rd frost caused light damage to Zellwood sweet corn. Some acres lost. Harvest of most crops winding down south. Volume leaders: Tomatoes, potatoes, cucumbers, celery, peppers. Also available: Snap beans, cabbage, carrots, chinese cabbage, sweet corn, eggplant, escarole, romaine lettuce, specialty lettuces, radishes, squash, strawberries, cherry tomatoes. State's pastures poor to excellent. Pasture ratings, 10% poor, 40% fair, 45% good, 5% excellent. State's cattle herds good condition.

GEORGIA: Rain one day or less. Rain totals generally under 0.50 in., few isolated spots northwest over 1.00 in. Temperatures 3 to 6° below normal. Coolest lows in lower 30s mountains to lower 40s central, south. Highs middle, upper 70s north, lower 80s central, middle 80s State border.

Days suitable for fieldwork 6.0. Soil moisture 1% very short, 45% short, 53% adequate, 1% surplus. Corn 39% fair, 58% good, 3% excellent; planting now equal average. Cotton 53% fair, 47% good; planting progress equal last years fast pace. Sorghum 53% fair, 47% good; 12% planted, 27% 1992, 20% avg. Peanuts 56% fair, 44% good; 33% planted, 39% 1992, 32% avg.; rain needed for early emerged fields many areas. Soybeans 2% planted, 2% 1992, 2% avg. Tobacco 13% poor, 56% fair, 27% good, 4% excellent; 96% transplanted, 100% 1992, 100% avg.; crop improving. Wheat 100% boot, 100% 1992, 100% avg.; wheat heading 7 to 10 days later than average. Other small grains improved. Onions 1% poor, 99% good; 2% harvested, 34% 1992, 42% avg. Watermelons 19% poor, 68% fair, 13% good; 94% planted, 94% 1992, 94% avg. Other vegetables 6% poor, 57% fair, 35% good, 2% excellent; cool nights slowing development, dry soils slowing planting. Apples 21% fair, 79% good; 95% blooming, 98% 1992, 99% avg. Peaches 8% poor, 15% fair, 63% good, 14% excellent; 0% harvested, 2% 1992, 3% avg. Pasture 1% poor, 31% fair, 63% good, 5% excellent. Cattle, hogs good. Activities: Harvesting small grains for hay, silage, applying fertilizer, lime to pastures, hay fields, irrigating row crops.

HAWAII: State received sunny periods mixed with intermittent showers, locally gusty winds. Variable showers fell mainly over windward, higher elevations. Temperatures mid 60s to mid 80s. Rainfall none to 4.30 in.

Growers continued irrigation to maintain normal crop progress. Gusty trades over the weekend, hampered spraying activities on farms in exposed areas. Banana production steady, papaya output seasonally low, watermelon harvesting increasing.

IDAHO: Temperatures 4° below normal to 7° above normal. Precipitation across most of the State, with some areas of the north receiving more than 1.50 in.

Days suitable for fieldwork 5. Soil moisture 0% very short, 4% short, 86% adequate, 10% surplus. Spring barley planted 45%, 94% 1992, 79% avg.; emerged 9%, 73% 1992, 51% avg. Oats planted 30%, 78% 1992, 61% avg.; emerged 5%, 64% 1992, 37% avg. Potatoes planted 20%, 51% 1992, 38% avg. Sugarbeets planted 84%, 100% 1992, 98% avg.; emerged 8%, 77% 1992, 58% avg. Onions planted 89%, 100% 1992, 97% avg.; emerged 7%. Dry peas planted 4%, 88% 1992, 63% avg.; emerged 1%. Lentils planted 1%, 86% 1992, 58% avg. Field corn planted 6%, 35% 1992, 24% avg. Irrigation water supplies 0% very poor, 4% poor, 25% fair, 55% good, 16% excellent. Hay, roughage supplies 5% very short, 16%

short, 78% adequate, 1% surplus. Activities: Planting crops, replanting winter wheat where necessary, fertilizing, spraying weeds, cleaning ditches, some irrigating, fencing. Pasture, range condition 90% of normal. Calving completed 98%. Lambing completed 95%. Livestock mostly good condition.

ILLINOIS: Continued wet conditions, with some sunshine, occurred last week, as temperatures averaged about 1° above normal, precipitation 0.20 to 1.40 in. Highs mid 60s to lower 70s. Lows upper 40s to lower 50s.

Days suitable for fieldwork 2.0. Soil moisture 11% adequate, 89% surplus. Oats planted 30%, 91% 1992, 93% avg. Alfalfa condition 4% excellent, 76% good, 20% fair. Fieldwork progressed some as farmers applied fertilizers, seeded oats, planted some corn, tended livestock. Pasture condition 90% of normal.

INDIANA: Temperatures 3 to 7° above normal. Highs mid 60s north to low 70s south. Mean lows were between 46 to 55°. Soil temperatures warmed considerably into the 50s to near 60°. Rainfall generally held around 0.50 in. Greater moisture was experienced in the northeast, southwest areas of the State where totals varied from 0.80 to 1.35 in.

Little was accomplished during the past week. Manure hauling, planting progress are almost at a stand still. Some areas of the State did get a minimal amount of corn planted. Pastures 89% of normal, 81% last week. Wheat good; 3% poor, 14% fair, 83% good to excellent category. Topsoil 29% adequate, 71% surplus. Subsoil moisture 35% adequate, 65% surplus. Oats seeded 32%, 80% 1992, 82% avg. Spring tillage 47%, 83% 1992, 84% avg. Tobacco beds seeded 82%, 95% 1992.

IOWA: Temperatures 2° below normal, but 4° above normal southeast. Extremes 32°, 76°. Precipitation 0.41 in. northwest to 5.62 in. southeast; average 1.31 in. (normal 0.70 in.). Many rivers remain at or above flood stage after sixth consecutive week of above normal precipitation.

Days suitable for fieldwork 3.1. Topsoil 31% adequate, 69% surplus. Subsoil 20% adequate, 80% surplus. Fertilizer application 34%, 80% 1992, 84% normal. Primary seedbed preparation completed 30%, 74% 1992, 83% normal. Oats sown 32%, 94% 1992, 96% avg.; emerged 4%, 67% 1992, 69% avg. Winter wheat 1% very poor, 4% poor, 42% fair, 49% good, 4% excellent. Pasture 1% very poor, 9% poor, 43% fair, 38% good, 9% excellent. Conditions for livestock improved.

KANSAS: Temperatures 2° below normal to 3° above normal over State. Precipitation received all districts. Heaviest fell in east central, southeastern districts.

Days suitable for fieldwork 4. Farmers took advantage opportunity work fields. Seedbed preparation, corn planting delayed by wet field conditions throughout spring. Corn planting 25% complete, 50% avg. Topsoil moisture 10% short to very short, 56% adequate, 34% surplus. Subsurface moisture 74% adequate, 26% surplus. Wheat 94% good-excellent, 5% fair, 1% poor. Sunshine, warmer temperatures past week promoted rapid wheat growth, progress still behind normal. Sixty percent of State's wheat acreage jointed compared 85% avg. Disease pressure in wheat widespread but light. Because wet conditions, potential for foliar diseases great. Cattle moving pasture. Pastures good condition, providing about 50% cattle roughage requirements. Farmers principle activities seedbed tillage, corn planting, moving cattle to pasture.

KENTUCKY: Mostly dry, warm. Temperatures slightly above normal, highs in low to mid 70s, lows near 50°. Light rain averaging 0.50 to 0.75 in. Deficits 0.25 to 0.50 in.

Days suitable for fieldwork 4.4. Soil moisture 24% surplus, 75% adequate, 1% short. Wheat condition 2% poor, 29% fair, 68% good, 1% excellent. Emerged corn 6%, 37% 1992, 21% avg. Emerged corn condition 6% very poor, 12% poor, 26% fair, 56% good. Tobacco

plants 75% less than 2 inches, 20% 2 to 4 inches, 5% greater than 4 inches. Tobacco condition 8% poor, 48% fair, 42% good, 2% excellent. Fruit crop condition 1% poor, 21% fair, 62% good, 16% excellent. Hay crops condition 2% poor, 22% fair, 69% good, 7% excellent. Pasture condition 92% of normal.

LOUISIANA: Temperatures 0.1 to 2.2° below normal. Extremes 40°; 88°. Rainfall 1.38 in. northwest to 3.58 in. central.

Days suitable for fieldwork 5.7. Soil moisture 4% short, 78% adequate, 18% surplus. Corn 3% very poor, 19% poor, 55% fair, 23% good; 96% planted, 99% 1992, 97% avg.; 86% emerged, 97% 1992, 91% avg. Planting near completion. Cotton 9% emerged, 45% 1992, 26% avg. Made excellent progress. Hay 14% first cutting, 9% 1992, 9% avg. Rice 6% poor, 90% fair, 4% good. Farmers busy spraying pesticides for diseases. Sorghum 3% emerged, 43% 1992, 39% avg. Planting was very active. Soybeans 1% planted, 1% 1992, 2% avg. Land preparation active for planting. Spring plowing 84% plowed, 89% 1992, 84% avg. Made excellent progress. Sweet potatoes 4% planted, 4% 1992, 8% avg. Wheat 4% very poor, 36% poor, 55% fair, 5% good; 91% headed, 97% 1992, 96% avg.; 22% turning color, 26% 1992, 34% avg. Wheat crop in fair condition. Sugarcane 2% poor, 31% fair, 57% good, 10% excellent. Off-barring, fertilizing active. Livestock 43% fair, 55% good, 2% excellent. Pastures 7% very poor, 1% poor, 4% fair, 88% good. Vegetables 12% poor, 56% fair, 32% good. Strawberry harvest continued.

MARYLAND & DELAWARE: MARYLAND: Precipitation 0.52 in. Temperature 56.1°, normal 58.9°. Extremes 25°; 84°.

Days suitable for fieldwork 5.5. Topsoil moisture, 77% adequate, 23% surplus. Subsoil moisture 33% adequate, 67% surplus. Small grains fair to mostly good, barley headed 32%, 53% 1992, 53% avg.; rye 25% headed, 38% 1992, 49% avg.; wheat, oats just beginning to head. Light disease problems, powdery mildew. Field corn 17% planted, 31% 1992, 27% avg. Sweet corn 24% planted, 26% 1992, 22% avg. Pasture mostly excellent condition, small amount of hay cut. Potatoes, green peas four-fifths planted. Vegetable, melon planting underway. Apple bloom 29%, 62% 1992, 74% avg.; strawberries 24% blooming, 51% 1992, 62% avg.

DELAWARE: Precipitation 0.61 in. Temperature 54.7°, normal 59.1°. Extremes 32°; 79°.

Days suitable for fieldwork 5.3. Topsoil moisture adequate; subsoil moisture 17% adequate, 83% surplus. Small grains fair to mostly good condition, light infestation of powdery mildew, leaf spot. Barley 42% headed, 48% 1992, 52% avg.; rye 28% headed, 36% 1992, 51% avg.; wheat just beginning. Corn for grain 25% seeded, 60% 1992, 37% avg. Sweet corn 34% planted, 38% 1992, 35% avg. Potatoes 4/5 planted, green peas 2/3 planted. Apples 46% blooming, 72% 1992, 83% avg.; strawberries 26% blooming, 47% 1992, 55% avg. Pastures, livestock excellent condition, haymaking just beginning.

MICHIGAN: Extremes 17°; 74°. Precipitation none to 1.59 in. across the State.

Days suitable for fieldwork 2.0. Soil moisture 20% adequate, 80% surplus. Corn 1% planted, 2% 1992, 10% avg. Oats 10% planted, 25% 1992, 55% avg. Potatoes 1% planted, 10% 1992, 15% avg. Sugarbeets 1% planted, 3% 1992, 50% avg. Soybeans 0% planted, 0% 1992, 0% avg. Winter wheat 0% headed, 0% 1992, 0% avg.; 3% very poor, 12% poor, 35% fair, 40% good, 10% excellent. Pasture condition 75% of normal. Activities: Spreading fertilizer; hauling manure; getting equipment ready; waiting to start spring planting.

MINNESOTA: Temperatures near normal to 5° below normal for State. Extremes 20°; 74°. Precipitation 0.04 to 1.05 in. above normal for the State. Greatest total was 2.39 in.

Days suitable for fieldwork 2.9. Topsoil 1% very short, 3% short, 54% adequate, 42% surplus. Spring wheat 48% planted, 42% 1992, 67% avg. Oats 36% seeded, 58% 1992, 70% avg. Barley 41%

seeded, 33% 1992, 54% avg. Sugarbeets 57% planted, 14% 1992, 52% avg. Potatoes 11% planted, 13% 1992, 16% avg. Green peas 9% planted, 44% 1992, 43% avg. Sweet corn 1% planted, 13% 1992, 8% avg. Corn 16% ground prepared, 37% 1992, 48% avg. Corn planted 4%, 21% 1992, 19% avg. Soybeans 4% ground prepared, 13% 1992, 16% avg. Soybeans planted 1%, 2% 1992, 3% avg. Dry bean planted 1%, 3% 1992, 2% avg.

MISSISSIPPI: Temperatures 64°, 2.6 below normal. Extremes 36°; 85°. Most of the State received 1.00 to 3.00 in. of rainfall. State average 2.49 in., 1.28 above normal. Soil temperatures 67°.

Days suitable for fieldwork 3.8, 6.0 1992, 4.4 avg. Soil moisture 42% adequate, 47% surplus, 11% excessive. Corn 58% planted, 92% 1992, 77% avg.; 33% emerged, 84% 1992, 67% avg.; 4% very poor, 16% poor, 59% fair, 21% good. Cotton 11% planted, 53% 1992, 45% avg.; 0% emerged, 31% 1992, 23% avg. Peanuts 4% planted, 25% 1992, 25% avg. Rice 14% planted, 78% 1992, 55% avg.; 5% emerged, 43% 1992, 27% avg. Sorghum 31% planted, 55% 1992, 49% avg.; 22% emerged, 37% 1992, 33% avg.; 10% very poor, 26% poor, 42% fair, 22% good. Soybeans 1% planted, 2% 1992, 5% avg. Sweet potatoes 2% planted, 13% 1992, 21% avg. Watermelons 64% planted, 75% 1992, 74% avg.; 25% poor, 50% fair, 25% good. Wheat 95% jointing, 100% 1992, 100% avg.; 51% heading, 94% 1992, 93% avg.; 9% poor, 60% fair, 31% good. Peaches 7% very poor, 22% poor, 22% fair, 49% good. Livestock 4% fair, 93% good, 3% excellent. Pasture 90% of normal. Activities: Planting cotton, corn, sorghum.

MISSOURI: Temperatures mostly 2 to 4° above normal. Rainfall 0.94 in., varying by area from under 0.50 in. central, northeastern districts to 1.00 to 2.00 in. northwestern, north central, west central, south central, southeastern districts.

Days suitable for fieldwork 2.0, varying from less than 1 day north central, northeast, to 4 days southwestern, southeastern districts. Topsoil 28% adequate, 72% surplus. Corn planting 2.5 weeks behind average, ranging 2 to 4% complete central, northern districts to 48% southeast. Sorghum planting generally not begun except southeastern district 6%. Oats sown 38%, 96% 1992, 98% avg. Wheat development about 1 week behind avg., some water damage in low spots. Ground worked once for spring crops 39%, 78% 1992, 81% avg. Pasture 3% poor, 43% fair, 47% good, 7% excellent.

MONTANA: Temperatures 1.5° below normal west of Divide, 2.5° above normal in southeast, normal elsewhere. Light to good amounts of precipitation received statewide with south central receiving the most with average of 0.50 in.

Days suitable for fieldwork 5.0. Topsoil 21% short, 71% adequate, 8% surplus. Subsoil moisture 29% short, 64% adequate, 7% surplus. Barley planted 42%, 81% 1992, 86% avg. Barley emerged 7%, 39% 1992, 21% avg. Oats planted 45%, 82% 1992, 71% avg. Oats emerged 5%, 71% 1992, 57% avg. Sugarbeets planted 79%, 77% 1992, 78% avg.; emerged 2%, 19% 1992, N.A. avg. Corn planted 25%, 53% 1992, 35% avg.; emerged 0%, 7% 1992, N.A. avg. Dry beans planted 7%, 2% 1992, 0% avg.; emerged 0%, N.A. 1992, N.A. avg. Potatoes planted 4%, 41% 1992, 12% avg.; emerged 0%, 0% 1992, N.A. avg. Pasture, range feed 84% of normal. Calving 91% complete, lambing 80% complete.

NEBRASKA: Temperatures 1 to 3° below normals. Scattered precipitation 0.10 in. northwest to over 1.00 in. north central.

Days suitable for fieldwork 5.0. Topsoil moisture 79% adequate, 21% surplus. Subsoil moisture 74% adequate, 26% surplus. Wheat condition 18% fair, 66% good, 16% excellent; 20% jointed, 61% 1992, 44% avg. Corn 9% planted, 37% 1992, 33% avg. Oats 64% sown, 100% 1992, 98% avg. Sugarbeet planting 95% complete. Potato planting beginning. Alfalfa condition 7% fair, 78% good, 15% excellent. Pasture, range condition 97% of normal.

NEVADA: Ridge of high pressure dominated weather pattern during week. Weak weather disturbance brushed northern part of State early

in period causing light showers 25th, 26th. High pressure followed with fair, mild weather during middle of week. Another weak disturbance brought light showers to northeastern areas 30th. System caused gusty northeast winds southern part of State. Extremes 21°; 93°.

Progress most crops normal, condition generally good to excellent. Potato planting making good progress. Calving, lambing, shearing nearly completed. Livestock movement to summer ranges continues. Ranges generally good condition, best in years.

NEW ENGLAND: Precipitation 0.20 to 0.92 in. north; 0.50 to 1.47 in. south. Temperatures 45 to 50° Maine; 49 to 56° elsewhere. Maximum temperatures 62 to 76° Maine; 74 to 82° elsewhere. Minimum temperatures 20 to 29° north; 25 to 37° south.

Major farm activities: Liming, fertilizing, plowing fields. Seeding some early season crops. Oil sprays applied to fruit trees.

NEW JERSEY: Temperatures slightly below normal. Extremes 28°; 83°. Rainfall 0.93 in. north, 0.84 in. central, 0.52 in. south. Heaviest 24 hour total 1.52 in. on 26th, 27th. Estimated soil moisture, in percent field capacity, averaged 96% north, 93% central, 90% south. Four inch soil temperatures averaged 54° north, 55° central, 55° south.

Field preparation, planting very active. Fieldwork still remains 3 days to 2 weeks behind due to excessive topsoil moisture, rains. Some planting of various types of lettuce, escarole, endive, spring spinach, snap beans. Asparagus, fall spinach available in moderate volume. Apples, peaches are blooming. Blueberries, strawberries starting to bloom. Limited fresh market tomatoes being transplanted from greenhouses. Limited planting of spring cabbage, sweet corn, potatoes.

NEW MEXICO: Temperatures within a couple of degrees of normal at nearly all reporting locations. Extremes 14° north-central mountains to 93° southeastern desert. A late winter storm brought snow, rain to most areas during the latter part of the week, with heaviest amounts in the central, east. Higher around 0.75 in.

Days suitable for fieldwork 6.7. Soil moisture 69% short, 31% adequate, some light wind, freeze damage effects felt on various fruits. Crop conditions: Alfalfa 9% poor, 21% fair, 64% good, 6% excellent; first cutting underway in south. Cotton 50% fair, 50% good. Irrigated wheat 13% fair, 83% good, 4% excellent. Dryland wheat 7% very poor, 14% poor, 58% fair, 21% good. Wheat crop 52% headed. Chile 8% poor, 33% fair, 42% good, 17% excellent. Onions 10% fair, 79% good, 11% excellent. Lettuce good to excellent with harvest underway. Cattle, sheep fair to excellent. Range, pasture 77% of normal.

NEW YORK: Temperatures fluctuated substantially from one day to the next. Week started very warm with highs in the 70s, then cooled with highs only in the 40s to 50s. A gradual warm-up followed, highs again reached into the 70s. Extremes 22°; 80°. Precipitation was close to normal. Northern areas received 0.25 in.; elsewhere 0.25 to 0.50 in. early in week. Rest of week was dry.

Soil moisture, surplus to excessive. Pastures 79% of normal. Winter wheat in good condition, growth slow in some areas. Hay fair to good condition. Corn from last year still in fields. Potato planting started where machinery can get onto fields. Drying conditions needed before planting can make much progress. Vegetable planting behind normal due to wetness. Some crops planted on well drained soils. Muckland fields remain very wet. Strawberries off to a late start. Fruit growers pruning trees and doing vineyard work to prepare for 1993 crops. Machinery operations limited by wet conditions.

NORTH CAROLINA: Temperatures 4° below normal to 1° above normal. Precipitation 1.50 in. at New Bern to 0.01 in. at Carthage.

Days suitable for fieldwork 5.3. Soil moisture 1% short, 86% adequate, 13% surplus. Crop condition: Pasture 1% poor, 20% fair,

68% good, 11% excellent. Winter wheat 29% fair, 71% good. Oats 25% fair, 75% good. Barley 23% fair, 77% good. Rye 1% poor, 24% fair, 75% good. Tobacco plant beds 5% poor, 42% fair, 52% good, 1% excellent. Irish potatoes 3% poor, 42% fair, 55% good. Peaches 4% poor, 15% fair, 70% good, 11% excellent. Truck crops 5% poor, 37% fair, 58% good. Hay, roughage supplies 3% very short, 9% short, 84% adequate, 4% surplus. Tobacco plant bed supply 3% very short, 29% short, 68% adequate. Corn planted 61%, 84% 1992, 74% avg. Flue-cured tobacco transplanted 40%, 52% 1992, 45% avg. Cotton planted 12%, 14% 1992, 21% avg. Peanuts planted 5%, 6% 1992, 9% avg. Sorghum planted 10%, 20% 1992, 16% avg. Sweet potatoes transplanted 5%, 10% 1992, 10% avg. Major activities: Land preparation; planting corn; transplanting tobacco plants. Other activities: planting cotton, peanuts; transplanting sweet potatoes; tending livestock; general farm maintenance.

NORTH DAKOTA: Temperatures below normal with scattered precipitation. Temperatures 3° below normal northwest, to 6° below normal northeast. Extremes 15° northeast; 75° west central. Precipitation 0.04 in. northwest to 0.35 in. northeast.

Days suitable for fieldwork 6.5. Topsoil mostly adequate, above average. Topsoil 2% very short, 7% short, 89% adequate, 2% surplus. Subsoil 7% very short, 43% short, 48% adequate, 2% surplus. Planting progress behind last year and average. Hard red spring wheat 38% planted, 2% emerged and beyond; 45%, 14% 1992; 49%, 11% avg.; durum wheat 19% planted, 1% emerged and beyond; 17%, 3% 1992; 26%, 3% avg.; barley 39% planted, 3% emerged and beyond; 35%, 11% 1992, 46%, 11% avg.; oats 33% planted, 3% emerged and beyond; 50%, 16% 1992, 44%, 10% avg.; winter wheat 1% jointing and beyond; condition none very poor or poor, 23% fair, 74% good, 3% excellent. Sugarbeets 66% planted, 39% 1992, 55% avg.; corn 3%, 9% 1992, 6% avg; flax 2%, 2% 1992, 3% avg.; potatoes 7%, 1% 1992, 4% avg. Roughage requirements furnished by pastures 33%; pasture condition 80% of normal. Calving 92% complete, lambing 95%, shearing 97%. Stockwater supplies 1% very short, 9% short, 90% adequate and none surplus.

OHIO: Drier, milder than normal during the week. Gulf moisture was limited, which kept rainfall amounts on the light side in most areas. High temperatures mid 60s to around 70° over northern areas, around 70° to the mid 70s over central, southern areas. These readings were 1 to 5° above normal across the State. Lows averaged in the 40s to near 50°, which was 1 to 6° above normal. Coldest readings were in the mid 20s to mid 30s. Rainfall around 0.30 in. or less, which was drier than normal by around 0.50 to 0.90 in. Soil temperatures at the 4-inch depth under bare ground averaged between 53 to 57°.

Days suitable for fieldwork 2.6. Soil moisture 36% adequate, 64% surplus. Oats planted 25%, 73% 1992, 80% avg.; emerged 10%, 52% 1992, 44% avg. Tobacco beds sown 85%. Potatoes planted 4%, 18% 1992, 30% avg. Sugarbeets planted 16%. Pasture 3% poor, 27% fair, 59% good, 11% excellent. Hay 5% poor, 30% fair, 55% good, 10% excellent. Warmer weather, sunshine contributed to more fieldwork as the ground finally began to dry out.

OKLAHOMA: Temperatures 3° below normal southwest to 2° above normal northeast. Precipitation 1.05 in. northeast to 3.83 in. north central.

Days suitable for fieldwork 4.7. Topsoil 4% short, 40% adequate, 56% surplus. Subsoil 100% adequate. Wheat 21% fair, 79% good; 94% jointing, 100% 1992, 97% avg.; 18% heading, 89% 1992, 50% avg. Oats 37% jointing, 100% 1992, 90% avg.; 3% heading, 57% 1992, 34% avg. Barley 30% jointing, 91% 1992, 94% avg.; 1% heading, 37% 1992, 36% avg. Corn 95% seedbed prepared, 99% 1992, 97% avg.; 85% planted, 80% 1992, 69% avg.; 54% up-to stand, 50% 1992, 30% avg. Sorghum 35% seedbed prepared, 50% 1992, 57% avg.; 3% planted, 6% 1992, 5% avg.; 1% up-to-stand, 2% 1992, 1% avg. Soybeans 37% seedbed prepared, 72% 1992, 66% avg.; 11% planted, 4% 1992, 8% avg.; 3% up-to-stand, 1% 1992, 1% avg. Peanuts 66% seedbed prepared, 76% 1992, 63% avg.; 1% planted, 3%

1992, 2% avg. Cotton 74% seedbed prepared, 72% 1992, 68% avg.; 3% planted, 2% 1992, 4% avg.; 1% up-to-stand, 0% 1992, 2% avg. Alfalfa 7% 1st cut, 19% 1992, 15% avg. Pastures 96% of normal. Livestock 26% fair, 74% good. Prices for feeder steers, heifers mixed. Marketings average.

OREGON: Temperatures 1 to 3° above normal west, 1 to 3° below normal east. Precipitation Coastal areas 1.80 in., northern Cascades 2.50 in.; elsewhere western areas 0.80 in., eastern areas 0.10 to 0.20 in. Record April precipitation much of Willamette Valley.

Soil moisture 1% short, 82% adequate 17% surplus. Winter wheat condition 2% poor, 9% fair, 47% good, 42% excellent. Barley planted 75%. Fieldwork, plantings delayed, wet conditions statewide. Some spring grain seeding underway in eastern areas. Klamath Basin sugarbeets 5% planted, Malheur Co. sugarbeets 95-98% planted. Some field corn being planted, western areas. Fruit trees in full bloom or near full bloom, statewide. Cherries: Petal drop stage. Strawberries, blueberries bloom underway, Marionberries showing freeze damage, grey mold in blueberries; Willamette Valley. Vegetable plantings delayed, wet conditions; Willamette Valley. Malheur County onion seeding nearing completion, potato seedings 40 to 50% complete. Sweet corn seedings underway. Hermiston area asparagus harvest continued. Livestock good. Western area pastures excessively wet, some turf damage, eastern area pastures adequate moisture. Range, pasture condition 96% of normal.

PENNSYLVANIA: Above normal temperatures, precipitation. Wet soil conditions continued to hamper fieldwork. Early morning frost reported in many fruit areas. Temperature 59°, 9° above normal. Extremes 22°, 82°. Precipitation 1.27 in., 0.45 in. above normal.

Days suitable for fieldwork 3. Soil moisture 0% short, 28% adequate, 72% surplus. Plowing 24% complete, 61% 1992, 66% avg. Corn 3% planted, 6% 1992, 11% avg. Soybeans 0% planted, 1% 1992, 1% avg. Oats 30% planted, 66% 1992, 72% avg. Potatoes 6% planted, 25% 1992, 38% avg. Tobacco beds 100% planted, 100% 1992, 96% avg. Barley 1% boot, 12% 1992, 15% avg. Wheat 2% boot, 6% 1992, 7% avg.; 5% very poor, 4% poor, 28% fair, 45% good, 18% excellent. Hay stands mostly fair to good. Peaches 56% pink, 57% 1992, 68% avg.; 33% full bloom or past, 31% 1992, 48% avg. Cherries 55% pink, 51% 1992, 66% avg.; 36% full bloom or past, 32% 1992, 48% avg. Apples 35% pink, 26% 1992, 50% avg.; 3% full bloom or past, 2% 1992, 23% avg. Activities: Hauling manure; maintaining machinery; fixing fence; preparing for spring work; limited planting of oats, corn, potatoes; pruning fruit trees; caring for livestock.

PUERTO RICO: Island rainfall of 2.88 in. was 1.47 in. above normal. Highest rainfall 7.61 in. at Manati 2E, followed by 5.56 in. at Corozal Aes, and 5.27 in. at Arecibo 3ESE. The highest 24-hour total was 5.70 in. at Manati 2E on April 30. Temperatures averaged 79 to 80° on the coasts and 72 to 75° inland with mean station temperatures ranging from 64.4° at Pico del Este--Luquillo to 81.8° at Guayama. Extremes: 56°, 98°.

SOUTH CAROLINA: Temperatures across the State 2 to 3° below normal. Precipitation less than 0.10 in. statewide.

Days suitable for fieldwork 6.4. Soil moisture 7% very short, 67% short, 26% adequate. Tobacco fair to good; 82% planted, 92% 1992, 98% avg. Corn fair to good; 94% planted, 97% 1992, 95% avg. Cantaloupes fair to good; 76% planted, 78% 1992, 75% avg. Watermelons fair to good; 81% planted, 86% 1992, 84% avg. Cucumbers fair to good; 77% planted, 77% 1992, 79% avg. Snapbeans fair to good; 61% planted, 63% 1992, 62% avg. Tomatoes fair to good. Oats fair to good; 64% headed, 80% 1992, 85% avg.; 3% turning color, 13% 1992, 13% avg. Rye fair to good; 9% turning color, 22% 1992, 17% avg. Wheat fair to good; 51% headed, 77% 1992, 86% avg. Grain hay fair to good; 21%

harvested, 24% 1992, 24% avg. Peaches fair to good. Pastures fair to good.

SOUTH DAKOTA: Temperatures near normal to 5° below normal. Extremes 18°, 78°. Precipitation was widespread with amounts ranging from zero along the northern border to over 2.00 in. the south central, southeast. Maximum 2.32 in.

Days suitable for fieldwork 3.3. Topsoil 4% short, 59% adequate, 37% surplus. Subsoil 1% very short, 4% short, 72% adequate, 23% surplus. Rye 11% fair, 56% good, 33% excellent. Barley 41% planted, 92% 1992, 82% avg. Oats 34% planted, 98% 1992, 89% avg. Fieldwork progress varied greatly across the State with the best progress in the northwest, north central parts of the State. Fields are still too wet to work in some areas. Livestock 1% poor, 3% fair, 82% good, 14% excellent. Cattle were being moved to pastures near home as most were still receiving supplemental feed. Scours continue to cause sickness in calves. Lambing was 87% complete, calving was 82% complete. Pasture conditions 86% of normal.

TENNESSEE: Temperatures averaged slightly above normal to slightly below normal across the State. Highs 70 to 79°. Lows 45 to 55°. Rainfall 0.04 to 2.00 in.

Days suitable for fieldwork 4.1. Soil moisture 88% adequate, 12% surplus. Corn 49% planted, 76% 1992, 50% avg. Cotton 6% planted, 35% 1992, 24% avg. Sorghum 2% planted, 35% 1992, 24% avg. Tobacco 93% plants up, 100% 1992, 99% avg.; 2% transplanted, 4% 1992, 2% avg. Wheat 92% jointed, 93% 1992, 95% avg.; 7% headed, 57% 1992, 49% avg.; 13% fair, 73% good, 14% excellent. Apples 91% blooming or beyond, 99% 1992, 99% avg. Alfalfa 2% poor, 25% fair, 66% good, 7% excellent. Pastures 15% fair, 67% good, 18% excellent. Cattle 2% poor, 8% fair, 81% good, 9% excellent. Corn planting advanced sharply. Cotton planting has just begun. Sorghum planting will pick up once more corn is in the ground.

TEXAS: Series of storm systems brought rain to nearly all areas this past week. As usual, eastern half of State picked up heaviest totals. Unlike past systems cold air did not follow, temperatures remained close to normal most areas. Temperature departures were 1 to 3° below normal around State. Only exceptions were Panhandle, Trans-Pecos where departures were 1° above normal. Even though rain was significant Northeast Texas, Blacklands totals were behind normal by one to three tenths of an inch. Trans-Pecos, Lower Rio Grande Valley overall averages were slightly behind normal values.

Crops: Corn planting continued High, Low Plains, early stands look good. In Blacklands, some corn behind schedule. Coastal Bend, recent rainfalls have helped with rapid development of crop. Central Texas, corn leaf aphids present some fields. Statewide corn condition 83% normal, 92% 1992. Sorghum beginning emerge some fields Low Plains, while other areas planting still underway. Blacklands, crop about 30 days behind normal, some greenbugs showing up. Yellow sugarcane aphids showing up some fields, Central Texas. Coastal Bend, sorghum got big boost from recent rains, coming along well. Statewide sorghum condition 78% normal, 85% 1992. Some early cotton planting scattered across High Plains, many producers still preparing land, waiting for warmer temperatures. Low Plains, planting underway most areas, more moisture needed. High winds continue stress crop in Trans-Pecos. Rice planting activities continued Upper Coast at fast pace, remains behind schedule. Soybean planting active, North, East Texas. Small grains, High Plains experiencing stress due lack of moisture, recent showers have helped. Russian wheat aphids population increasing, it does not appear be major problem at this time. In Cross Timbers, rust showing up as wheat matures, wheat bailing taking place. Some areas having problems with wild oats wheat fields. Central Texas, heavy winds caused some wheat lay down. Harvest approaching in South Texas. Statewide wheat condition 74% normal, 85% 1992.

Commercial Vegetables: Rio Grande Valley, onion harvesting winding down, watermelon harvest about 4 to 5 days away from beginning. San Antonio-Winter Garden, some watermelon fields

suffered from wind damage, blowing sand. Peppers setting blooms. Lettuce harvest full swing. Cabbage harvesting will start one to two weeks. East Texas, white flies are being controlled. Tomatoes, watermelons, peppers, squash doing well. Early spring vegetable being harvested. Sweet potato slips should be ready to be put out next week. High Plains, cabbage, onion planting winding down. Some stands poor, while others showing good progress. Trans Pecos, pepper planting completed, some wind damage to plants has occurred. Onions growing well, watermelon, cantaloupe are up. Peach thinning continued various areas, limited basis as result of late freezes. East Texas, disease, insect spraying occurring. Cross Timbers, leaf curl becoming more of problem. Upper Coast, many trees dropping fruit. Some early peaches available, South Texas. Blacklands, some pecans still being grafted, while grafting about complete in Central Texas. In many areas, zinc being applied to trees. Trans-Pecos area expecting good crop.

Range and Livestock: Livestock good condition across State. Limited forage High, Low Plains forcing some supplemental feeding to continue. Parts of Low Plains helped by recent rains, moisture still short supply. Upper Coast, cattle moving off Saltgrass. Ticks increasing some areas. South Texas, rain needed for pastures, stock tanks. Trans Pecos, flies, ticks subsiding.

UTAH: Temperature maximums, minimums approximated normal. Precipitation was moderate in north central, northern mountains. Precipitation for the rest of the State was light except for Dixie, southeast which reported no precipitation.

Days suitable for fieldwork 6.0. Soil moisture 3% short, 94% adequate, 3% surplus. Winter wheat 21% good, 79% fair. Fall barley 30% good, 44% fair, 26% poor. Alfalfa hay height 6.4 inches, 12.7 inches 1992, 9.1 inches avg. Spring wheat: Planted 78%; emerged 35%, 92% 1992, 84% avg. Barley: Planted 80%; emerged 41%, 89% 1992, 78% avg. Oats: Planted 53%, 80% 1992, 80% avg; emerged 22%, 52% 1992, 50% avg. Corn planted: 10%, 56% 1992, 35% avg. Fruit full bloom or past: Apricots 99%; sweet cherries 96%; tart cherries 50%; peaches 76%; pears 84%; apples 55%. Potatoes planted 25%. Calf death losses normal to above normal. Lamb death losses normal. Pasture and range good to excellent.

VIRGINIA: Temperatures near normal. Extremes 24°; 84°. Precipitation slightly below normal ranging from 0.11 to 0.74 in.

Days suitable for fieldwork 4.3. Topsoil 79% adequate, 21% surplus. Pasture 10% fair, 81% good, 9% excellent. Alfalfa 2% poor, 9% fair, 80% good, 9% excellent. Other hay 30% fair, 59% good, 11% excellent. Wheat 3% poor, 28% fair, 65% good, 4% excellent. Barley 1% poor, 27% fair, 67% good, 5% excellent. Peach 23% fair, 77% good. Apple 17% fair, 71% good, 12% excellent. Potato 50% fair, 50% good. Corn 35% planted, 45% 1992, 42% avg.; 12% very poor, 19% poor, 41% fair, 25% good, 3% excellent. Peanuts 6% planted, 13% 1992, 15% avg. Soybeans 3% planted, 2% 1992, 2% avg. Cotton 10% planted, 30% 1992, 57% avg. Flue tobacco 5% transplanted, 10% 1992, 10% avg. Liming, fertilizing land, harvesting rye silage, dragging off potatoes, spraying fruit trees, planting snapbeans, cucumbers, listing tobacco fields.

WASHINGTON: Temperatures 4° above normal to 2° below normal west; normal to 5° below normal east. Precipitation 0.70 to 1.71 in. west; 0.02 to 1.47 in. east.

Days suitable for fieldwork 4.8. Soil moisture 6% short, 94% adequate. Irrigation water supply 37% short, 63% adequate. Hay, other roughage 32% very short, 45% short, 23% adequate. Range, pasture 33% very poor, 64% poor, 3% fair. Winter wheat dryland 5% fair, 95% good; irrigated 100% good. Spring wheat dryland 5% fair, 95% good; irrigated 100% good. Barley dryland 5% fair, 95% good; irrigated 100% good. Wet weather continued. Seeding of spring crops advanced slowly, still well behind normal. Tree fruits blooming; light bloom on Golden Delicious apples could reduce set of golden, red delicious crops. Asparagus harvest continued. Livestock areas sloppy; some pastures damaged by grazing livestock. Hay supplies short, commanding premium prices.

WEST VIRGINIA: Temperature 58°. Extremes 27°; 86°. Precipitation 0.38 in.

Days suitable for fieldwork 4.9. Soil moisture 90% adequate, 10% surplus. Wheat good. Barley good. Oats 62% planted, 50% emerged. Corn 23% planted. Gardens 26% planted, 17% emerged. Hay 36% fair, 64% good. Apples good. Peaches good. Soil prepared 37%. Tobacco beds planted 95%. Pastures 22% fair, 70% good, 8% excellent; 90% of normal. Cattle 12% fair, 88% good. Sheep 39% fair, 61% good. Hay feed supplies 20% short, 80% adequate. Other feed supplies adequate. Farm activities: fencing, spreading fertilizer, planting corn, oats, gardens, preparing soil.

WISCONSIN: Temperature 50°; at normal. Extremes 15°; 78°. Precipitation 1.00 to 2.20 in.

Days suitable for fieldwork 1.7. Soil moisture 31% adequate, 69% surplus. Intended spring tillage 10% complete, 29% 1992, 46% avg. Oats 8% planted, 32% 1992, 57% avg. Corn 1% planted, 4% 1992, 8% avg. Damage to Winter wheat: 12% report no damage, 68% light damage, 18% moderate damage, 2% severe damage. Damage to Alfalfa; 20% report no damage, 48% light damage, 18% moderate damage, 14% severe damage.

WYOMING: Wetter than normal with temperatures near normal. Temperatures 5° below normal to 3° above normal. Precipitation was above normal, except below normal in the southeast.

Days suitable for fieldwork 4.4. Topsoil 92% adequate, 8% surplus. Subsoil 8% short, 92% adequate. Spring wheat 31% planted, 91% 1992, 73% avg.; 5% emerged, 40% 1992, 30% avg. Oats 41% planted, 73% 1992, 62% avg.; 6% emerged, 33% 1992, 25% avg. Barley 65% planted, 91% 1992, 84% avg.; 35% emerged, 55% 1992, 55% avg. Sugarbeets 73% planted, 95% 1992, 88% avg.; 3% emerged, 19% 1992, 18% avg. Corn 11% planted, 45% 1992, 22% avg. Potatoes 9% planted, 32% 1992, 24% avg. Winter wheat condition 5% fair, 95% good. Alfalfa prospects 23% fair, 72% good, 5% excellent. Spring calves born 91%, 91% 1992, 90% avg. Calf death losses 8% light, 62% normal, 30% heavy. Farm flock: Ewes lambed 93%, 98% 1992, 94% avg.; shorn 91%, 96% 1992, 90% avg. Range flock: Ewes lambed 40%, 51% 1992, 55% avg.; shorn 71%, 83% 1992, 74% avg. Lamb death losses 15% light, 79% normal, 6% heavy. Range, pasture condition 93% of normal.

(Continued from front cover)

Atlantic region, with Atlantic City, NJ noting 30°F, and Dulles Airport, VA registering 32°F. Farther west, thunderstorms deluged north-central Texas and central Oklahoma. As much as 3 to 5 inches inundated areas near Stillwater, OK, causing flash flooding. Late in the week, a complex weather system brought a variety of weather to the middle third of the Nation, while the

Southwest and the East were warm and dry. Late-season snowfall blanketed areas from the Sangre de Cristo range in New Mexico to the Black Hills of South Dakota. Red River, NM received 8 inches. Farther east, heavy rainfall resumed in Oklahoma, and developed in the lower Mississippi Valley and the upper Midwest. Late-week rainfall included 1.19 inches in La Crosse, WI, 3.21 inches in Enid, OK, and 3.54 inches near Jackson, MS.

April 1993

MONTHLY DATA FROM SELECTED FOREIGN CITIES
CLIMATE ANALYSIS CENTER-NMC-NWS-NOAA
*** = DATA NOT AVAILABLE

International Weather and Crop Summary
HIGHLIGHTS

April 25 - May 1, 1993

FSU-WESTERN: Unseasonably warm, dry weather allowed fieldwork for spring grain planting to advance northward without delay and stimulated vegetative growth in winter grains.

EUROPE: Rain helped corn planting in France but hot, dry weather prevailed in Poland.

NORTHWESTERN AFRICA: Light to moderate rain over northern Morocco benefited immature crops, but came too late to significantly improve yield prospects.

SOUTH AFRICA: Corn harvesting and winter wheat planting progressed.

SOUTH ASIA: Hot, dry weather favored winter crop drydown but stressed livestock.

SOUTHEAST ASIA: Unseasonably warm, dry weather reduced moisture for Thailand's newly planted rice and corn.

EASTERN ASIA: Rain benefited winter wheat and summer crops across the North China Plain. Widespread showers favored irrigation supplies across central and southern China.

AUSTRALIA: Summer crop harvesting neared completion, but pastures were unfavorably dry.

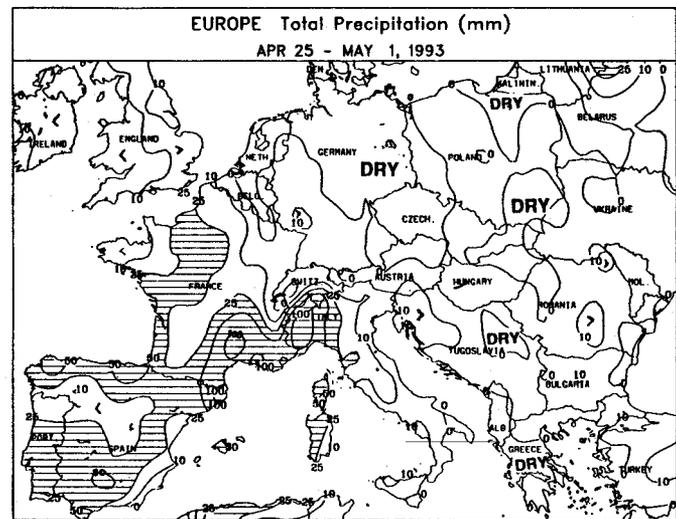
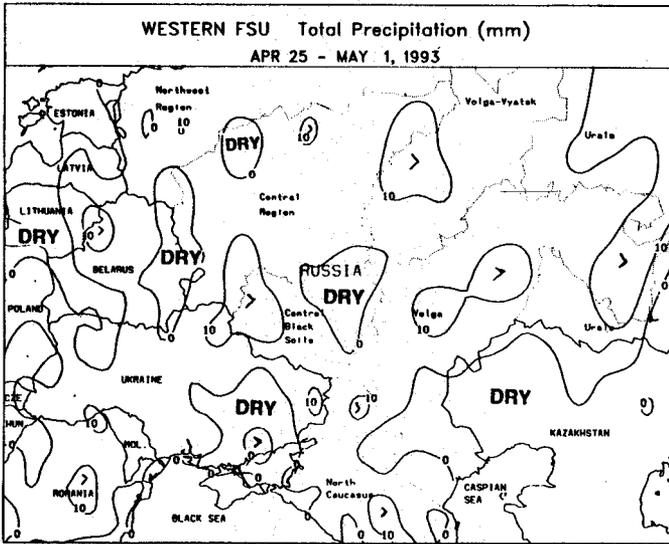
SOUTH AMERICA: Late-week rains delayed summer crop harvesting in Argentina, after previous favorable dry weather. Dry weather boosted harvest progress across southern Brazil.

COUNTRY	CITY	TEMPERATURE (C)					PRECIPITATION (MM)		
		AVG MAX	AVG MIN	HI	LO	AVG	DPART F/NRM	TOTAL	DPART F/NRM
NORWAY	OSLO	10	0	24	-7	5	2.0	35	-13
SWEDEN	STOCKHOLM	11	1	27	-6	6	1.5	23	-8
FINLAND	HELSINKI	9	-1	22	-7	4	1.0	19	-18
U KING	GLASGOW	12	5	21	-3	9	0.4	113	50
	EDINBURGH	11	5	16	-2	8	0.8	66	25
	BIRMINGHAM	13	6	20	-1	9	1.7	83	34
	LONDON	14	6	23	-1	10	2.3	82	28
IRELAND	DUBLIN	13	7	19	2	10	1.9	46	-5
ICELND	REYKJAVIK	7	2	10	-3	4	1.2	52	-5
DENMRK	COPENHAGEN	12	3	26	-4	8	1.0	13	-26
LUXEMB	LUXEMBOURG	16	7	27	-1	11	3.3	31	-28
SWITZL	ZURICH	15	7	27	0	11	3.0	75	-17
	GENEVA	16	6	24	-2	11	2.1	55	-10
FRANCE	PARIS/ORLY	17	8	26	1	12	***	107	**
	STRASBOURG	18	7	29	-1	13	3.4	22	-24
	BOURGES	16	6	25	-1	11	1.5	92	42
	BORDEAUX	17	8	26	3	12	1.0	130	63
	TOULOUSE	16	7	23	2	12	0.8	138	76
	MARSEILLE	19	10	24	6	14	1.4	154	111
SPAIN	VALLADOLID	16	5	25	-1	10	0.1	39	-4
	MADRID	18	5	27	0	12	-0.7	23	-21
	SEVILLE	22	10	29	7	16	-0.9	47	-12
PORTUG	LISBON	18	11	24	8	14	-0.8	89	38
GERMANY	HAMBURG	15	5	27	-2	10	3.1	31	-20
	BERLIN	16	7	27	-2	11	2.8	13	-28
	DUSSELDORF	17	7	30	0	12	2.4	51	0
	LEIPZIG	17	5	26	-3	11	3.0	13	-27
	DRESDEN	16	7	26	-3	11	3.1	28	-18
	STUTTGART	16	6	26	-2	11	2.3	29	-26
	NURNBERG	17	6	26	-3	12	3.7	23	-24
	MUNICH	**	**	**	**	**	**	**	**
AUSTRI	VIENNA	16	5	25	-1	11	0.6	28	-15
	INNSBRUCK	16	5	26	-1	11	2.2	52	-9
CZECH	PRAGUE	16	4	25	-3	10	2.4	10	-28
POLAND	WARSAW	14	4	25	-3	9	1.2	23	-10
	LODZ	14	5	26	-4	9	2.0	35	-15
	KATOWICE	14	3	25	-7	8	1.0	17	-37
	PRZEMYSL	13	3	23	-5	8	0.0	22	-26
HUNGAR	BUDAPEST	17	7	26	-1	12	0.4	19	-19
F YUGO	BELGRADE	18	8	26	-1	13	0.8	26	-33
ROMANI	BUCHAREST	17	4	23	-1	10	-0.9	18	-27
BULGAR	SOFTA	16	5	23	-2	10	0.0	25	-31
ITALY	MILAN	17	8	23	3	13	0.6	53	-35
	VERONA	18	8	26	2	13	0.9	62	-3
	VENICE	17	9	24	2	13	0.6	24	-46
	GENOA	17	11	21	8	14	-0.9	114	29
	ROME	18	8	24	3	13	-0.5	50	-1
	NAPLES	19	10	26	5	14	1.2	60	-16
GREECE	THESSALONIKA	19	8	25	1	14	-0.4	12	-24
	LARISSA	21	7	28	-1	14	-0.3	12	-18
	ATHENS	20	12	25	5	16	-0.4	46	30
TURKEY	ISTANBUL	16	9	23	5	12	1.4	17	-21
	ANKARA	16	2	23	-7	9	-2.9	25	-1
CYPRUS	LARNACA	22	11	27	7	16	-0.6	14	-7
ESTONI	TALLINN	8	0	22	-7	4	1.0	29	-5
FSU	LENINGRAD	8	1	19	-5	4	0.4	24	-9
LITHUA	KAUNAS	13	3	25	-4	8	2.0	11	-29
FSU	MINSK	11	3	24	-7	7	0.8	45	2
	KAZAN	7	0	21	-7	4	-0.6	39	4
	MOSCOW	10	2	21	-6	6	-0.1	30	-11
	SVERDLOVSK	7	-2	18	-12	3	-1.5	13	-15
	OMSK	6	-2	16	-18	2	-1.4	63	42
	KUSTANAY	6	-3	17	-20	2	-3.9	37	13
	KRASNOYARSK	8	-2	22	-19	3	2.1	15	-14
	NOVOSIBIRSK	6	-2	20	-22	2	2.8	41	28
	BARNAUL	9	-1	22	-17	4	0.8	78	53
	KHABAROVSK	8	-2	15	-5	3	-1.4	35	-7
	VLADIVOSTOK	9	2	19	-3	6	1.2	20	-45
	KIEV	11	5	23	-1	8	-0.4	36	-11
	LVOV	13	3	23	-3	8	0.2	25	-23

Based on Preliminary Reports

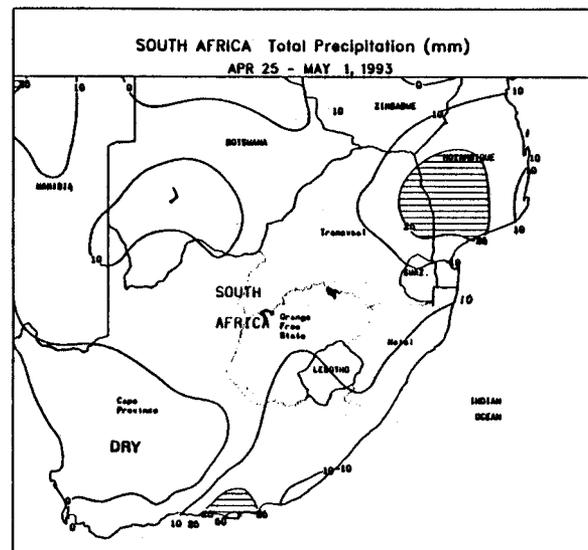
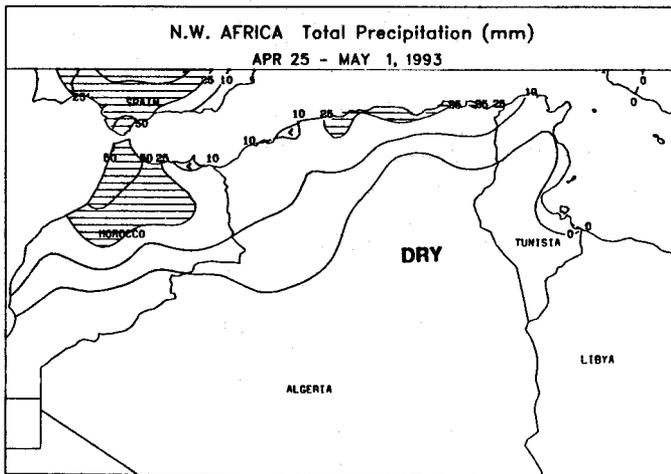
April 1993

COUNTRY	CITY	TEMPERATURE (C)					PRECIPITATION (MM)			D PART	D PART	
		AVG	AVG	HI	LO	AVG	F/NRM	TOTAL	F/NRM			
FSU	KIROVOGRAD	12	4	23	-3	8	-0.3	49	17			
	ODESSA	11	5	21	1	8	-0.9	32	-1			
	YALTA	13	7	18	3	10	-0.1	30	-2			
	VORONEZH	11	2	21	-5	7	-1.2	16	-22			
	SARATOV	10	3	20	-4	6	-0.2	46	19			
	KHARKOV	12	4	21	-1	8	-1.3	18	-18			
	VOLGOGRAD	12	4	20	-1	8	-0.7	63	39			
	ROSTOV	13	5	21	0	9	-1.9	71	25			
	ASTRAKHAN	15	5	21	1	10	-0.8	17	-1			
	KRASNODAR	15	5	24	0	10	-1.2	69	16			
	ORENBURG	9	0	21	-9	5	-2.1	35	12			
	TSELINOGRAD	7	-2	18	-15	3	-0.3	26	12			
	KARAGANDA	8	-1	22	-12	3	-1.9	48	27			
	TBILISI	17	7	24	1	12	-1.5	51	-4			
	TASHKENT	21	10	35	-2	16	0.1	106	46			
	ASHKHABAD	23	11	35	4	17	0.3	46	3			
	DAMASCUS	25	6	34	0	15	-0.3	5	-8			
	ISRAEL	JERUSALEM	22	9	33	2	15	-0.3	0	-34		
	PAKIST	KARACHI	35	22	40	13	29	0.1	0	-4		
	INDIA	AMRITSAR	34	16	43	9	25	-0.2	20	-5		
NEW DELHI		37	21	43	13	29	-0.2	6	-9			
AHMEDABAD		40	24	44	18	32	0.5	0	-2			
INDORE		39	22	43	15	30	0.4	0	-3			
CALCUTTA		35	24	38	19	29	-1.5	132	97			
VERAVAL		32	23	37	21	27	0.4	0	0			
BOMBAY		32	24	34	21	28	-0.5	0	0			
POONA		38	18	41	15	28	-0.9	1	-11			
BEGAMPET		38	25	42	21	31	0.3	18	-3			
VISHAKHAPATNAM		32	26	32	24	29	***	30	**			
MADRAS	36	25	39	18	30	-0.4	0	-11				
MANGALORE	33	25	36	22	29	-0.4	57	17				
H KONG	KINGS PEAK	24	20	29	14	22	***	123	**			
N KREA	PYONGYANG	14	2	24	-5	8	-0.4	90	28			
S KREA	SEOUL	16	7	24	0	11	0.8	86	18			
JAPAN	SAPORO	10	3	20	-1	6	-0.2	87	24			
	NAGOYA	19	9	26	1	14	0.0	79	-73			
	TOKYO	18	10	27	5	14	-0.2	65	-59			
	YOKOHAMA	18	10	26	4	14	0.1	74	-69			
KYOTO		19	9	28	1	14	0.3	105	-58			
	OSAKA	19	11	26	3	15	0.1	76	-61			
THAILN	PHETCHABUN	37	25	40	21	31	0.9	32	-43			
	BANGKOK	35	27	37	23	31	0.2	45	-24			
MALAYS	KUALA LUMPUR	33	24	35	23	29	1.7	133	-139			
VIETNM	HANOI	28	22	32	17	25	1.1	100	19			
CHINA	HARBIN	13	-1	25	-9	6	0.2	23	-2			
	HAMI	21	6	32	-8	14	0.2	0	-2			
	LANCHOW	20	8	30	1	14	1.9	6	-14			
	BELJING	20	8	32	0	14	0.2	17	-10			
	TIENTISIN	20	8	32	-1	14	-0.4	12	-13			
	LHASA	15	2	21	-2	9	0.6	4	-2			
	KUNMING	24	10	28	6	17	1.0	20	-6			
	CHENGCHOW	22	9	37	2	16	0.1	40	-8			
	YEHCHANG	23	14	35	6	18	1.0	50	-45			
	HANKOW	22	14	32	6	18	1.9	129	-2			
	CHUNGKING	23	16	35	11	19	***	117	**			
	CHIHKIANG	21	14	33	7	17	1.0	89	-75			
	WU HU	21	12	32	1	16	***	53	**			
	SHANGHAI	18	11	30	4	15	***	38	**			
	NANCHANG	21	15	31	7	18	1.0	115	-108			
TAIPEI	23	19	33	13	21	0.5	193	25				
CANTON	24	19	32	13	22	0.0	397	215				
NANNING	26	19	33	11	23	0.6	124	20				
CNRY I	LAS PALMAS	22	16	27	12	19	0.5	2	-4			
MOROCC	CASABLANCA	19	13	25	9	16	0.3	31	-7			
	MARRAKECH	25	12	33	9	19	1.7	3	-31			
ALGERI	ALGER	21	9	29	4	15	0.3	56	-25			
	BATNA	19	**	26	**	**	***	2	-26			
TUNISI	TUNIS	23	11	29	7	17	1.4	2	-37			
NIGER	NIAMEY	42	26	43	22	34	0.1	2	-4			
MALI	TIMBUKTU	41	24	44	19	33	1.5	0	-2			
	BAMAKO	39	27	42	21	33	1.1	3	-16			
MAURIT	NOUAKHOTT	33	19	42	16	26	0.9	0	0			
SENEGL	DAKAR	25	19	33	17	22	0.9	0	0			
CHAG A	DIEGO GARCIA	30	27	33	23	28	0.5	388	207			
LIBYA	TRIPOLI	27	12	38	3	19	0.5	0	-17			
	BENGHAZI	24	14	38	7	19	0.0	0	-6			
EGYPT	CAIRO	29	15	40	11	22	0.4	0	-1			
	ASWAN	36	20	41	14	28	1.2	0	0			
ETHIOP	ADDIS ABABA	**	**	27	10	**	***	**	**			
	KENYA	NAIROBI	27	15	29	11	**	***	**	**		
	TANZAN	DAR ES SALAAM	**	**	32	22	**	***	248	-24		
	GABON	LIBREVILLE	31	23	32	19	27	0.0	176	-171		
	TOGO	LOME	32	25	33	21	29	0.5	94	-6		
	B FASO	OUAGADOUGOU	41	27	42	21	34	1.1	25	2		
	IVRY C	ABIDJAN	32	26	40	20	**	***	180	35		
	MOZAMB	MAPUTO	30	21	35	16	25	1.8	15	-39		
	ZAMBIA	LUSAKA	26	**	29	13	**	***	13	-4		
	ZIMBAB	HARARE	25	15	28	14	20	2.0	97	53		
	S AFRI	PRETORIA	26	13	29	7	19	1.5	30	-24		
		JOHANNESBURG	22	9	26	2	16	0.6	31	-21		
		BETHAL	23	**	26	1	**	***	1	-37		
		DURBAN	27	18	33	10	23	1.0	43	-30		
		CAPE TOWN	22	13	31	7	17	0.3	189	151		
	CANADA	TORONTO	12	2	20	-2	7	0.6	86	21		
		MONTREAL	10	1	22	-4	6	0.2	163	88		
		WINNIPEG	11	-3	20	-10	4	0.6	25	-12		
		REGINA	11	-2	20	-6	5	0.6	16	-5		
		SASKATOON	11	-2	19	-7	5	0.9	27	8		
	LETHBRIDGE	14	0	19	-5	7	1.1	35	-1			
	CALGARY	11	-2	17	-7	5	0.8	7	-18			
	EDMONTON	11	1	18	-4	6	0.6	48	25			
	VANCOUVER	13	7	18	3	10	1.2	127	51			
MEXICO	GUADALAJARA	29	14	33	8	21	-0.5	0	-8			
	MEXICO CITY	**	13	30	10	**	***	17	4			
	ACAPULCO	32	21	34	14	26	-1.1	0	-5			
BERMUD	ST. GEORGES	23	19	25	15	21	1.7	185	104			
BAHAMA	NASSAU	27	19	30	15	23	0.0	49	-2			
CUBA	HAVANA	27	20	31	17	24	-0.8	119	69			
JAMAIC	KINGSTON	31	24	33	21	28	0.8	38	2			
P RICO	SAN JUAN	31	23	33	22	27	0.6	166	71			
GUADEL	RAIZET	31	23	32	20	27	1.3	73	1			
MARTINQ	LAMENTIN	30	24	31	22	27	1.5	69	-51			
BARBAD	BRIDGETOWN	31	25	31	22	28	1.3	12	-44			
TRINID	PORT OF SPAIN	33	24	35	21	29	1.9	15	-21			
COLOMB	BOGOTA	19	9	22	1	14	0.6	107	4			
VENEZU	CARACAS	32	24	38	20	28	2.1	193	170			
F GUIA	CAYENNE	29	24	31	22	26	0.3	484	81			
BRAZIL	FORTALEZA	30	24	31	22	27	0.6	171	-162			
	RECIFE	30	23	32	21	27	0.4	47	-278			
	BELO HORIZONTE	27	19	30	16	23	1.2	181	118			
	CAMPO GRANDE	30	20	33	15	25	1.3	48	-42			
	FRANCA	27	18	28	15	22	2.2	102	21			
	LONDRINA	28	18	32	12	23	1.4	121	8			
	SANTA MARIA	**	17	34	7	**	***	67	-75			
	PORTO ALEGRE	28	17	34	7	22	2.7	28	-75			
PERU	LIMA	26	19	28	17	22	1.4	0	0			
BOLIVI	LA PAZ	14	3	17	0	8	-0.2	58	28			
CHILE	SANTIAGO	21	9	32	5	15	0.6	68	58			
ARGENT	IGUAZU	29	18									



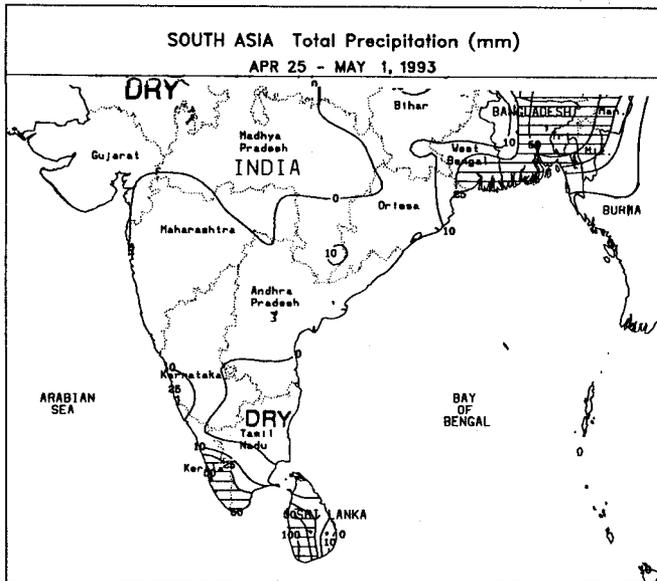
FSU-WESTERN: Warm, dry weather allowed fieldwork for spring grain planting to advance northward, and stimulated further vegetative growth in winter grains. Although precipitation amounts were generally below 10 mm, some local amounts exceeding 10 mm were scattered throughout the region. Weekly average temperatures were 4-8 degrees Celsius (C) above normal in the west, 1-3 degrees C above normal in central areas, and near normal in the east. The mild weather favored winter grains, which were greening over northern areas and jointing over most of Ukraine and North Caucasus. Moisture conditions favored early crop growth in most areas. This past week's favorably warm, dry weather allowed fieldwork to advance without delays. Wet, cool weather the previous two weeks had caused significant fieldwork delays and slowed growth in winter grains.

EUROPE: Beneficial rain fell in southwestern Europe while warm, dry weather persisted in the northeast. Widespread rain (15-50 mm) promoted winter wheat growth and provided favorable topsoil moisture for spring crop plantings in southeastern England, France, and western portions of Italy's Po Valley. Soaking rain covered nearly all of the Iberian Peninsula, coming too late for drought-plagued winter crops which were already into heading but providing some relief to pastures and irrigated summer crop areas. In contrast to the favorable moisture in the west, unseasonably warm weather (temperatures averaging 6-10 degrees C above normal) hastened growth of winter crops and promoted early spring crop plantings in northeastern Europe. Soil moisture is generally adequate, but the spring heat and recent dryness in the northeast reduced topsoil moisture supplies. Scattered showers fell over the Balkans, where spring fieldwork is underway.

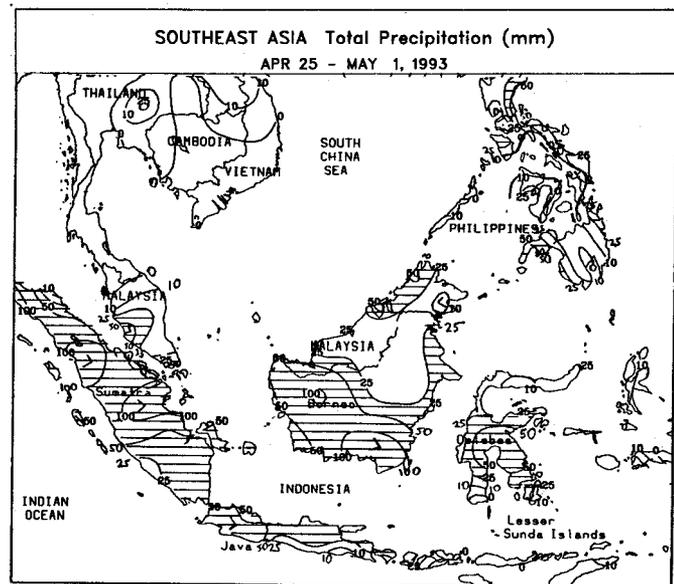


NORTHWESTERN AFRICA: Light to moderate rain (10-52 mm) covered winter grains in northern Morocco, with mostly dry weather prevailing over the south. Although the rain over northern Morocco benefited immature crops, it arrived too late to significantly improve yield prospects because most winter grains were approaching maturity. In Algeria and Tunisia, light showers (10-25 mm) covered winter grain areas near the coast, while mostly dry weather continued over crop areas further inland. Usually, winter grain harvesting begins in May and extends through July. Weekly average temperatures were 3-5 degrees C below normal in Morocco and western Algeria, and 1-3 degrees C below normal in eastern Algeria and Tunisia.

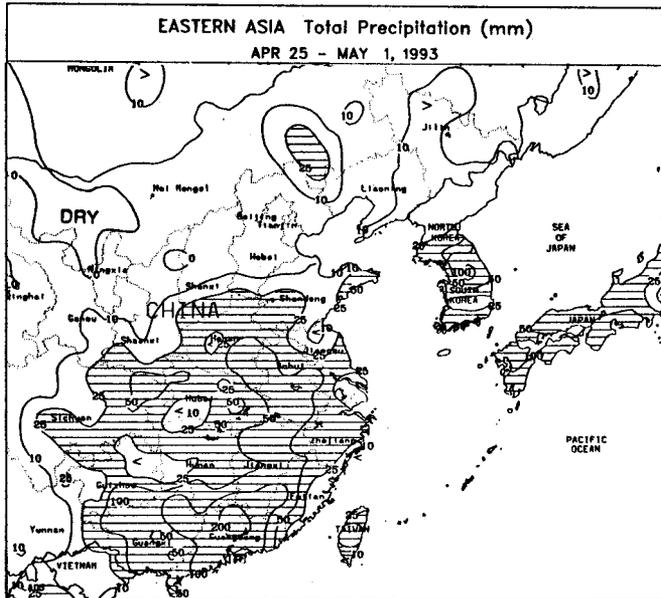
SOUTH AFRICA: Mostly dry, seasonably mild weather favored corn drydown and harvesting, as well as winter wheat planting. However, scattered frost across southern Transvaal, Orange Free State, and northern wheat areas of southern Cape Province impeded emergence. In Natal, light rain (10-19 mm) covered coastal sugarcane areas.



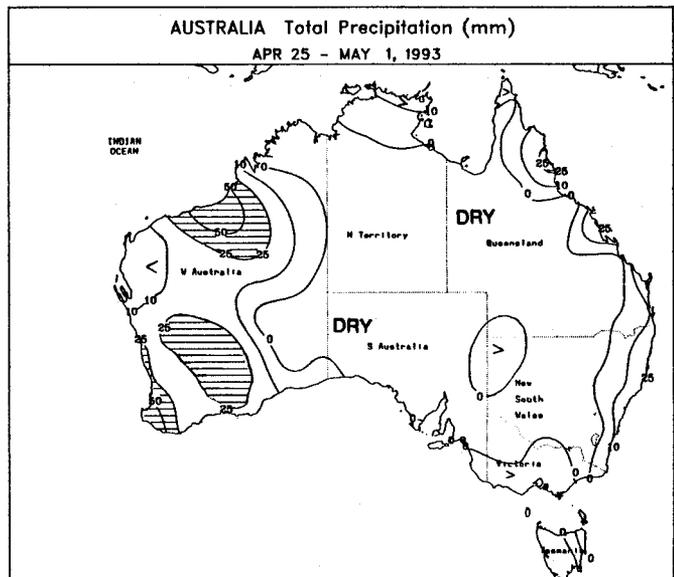
SOUTH ASIA: Hot, dry weather from Pakistan to central India aided winter grain and oilseed drydown but stressed livestock. Temperatures averaged 2-6 degrees C above normal in this area, with highs reaching the low to mid 40's C each day. However, high temperatures normally reach 40 degrees C during May in central and northwestern areas, prior to the onset of the southwest monsoon. Elsewhere, showers (10-71 mm) fell over rice areas along India's southwestern coast and in the east from southern Bihar to Assam, improving planting moisture.



SOUTHEAST ASIA: Unseasonably dry, warmer weather reduced moisture for Thailand's newly cultivated rice and corn. Daily highs approached 40 degrees C (2-5 degrees C above normal) across the primary rainfed grain areas. High temperatures usually decrease during May with the advent of the southwest monsoon. Dry weather also dominated peninsular Thailand, but scattered showers (10-27 mm) covered western Malaysia's oil palm region. Widespread showers (29-50 mm or more) continued over Indonesia, further improving dry season rice prospects. In the Philippines, rainfall totalled 15 mm or less in most primary rice and corn areas. During May, prevailing winds usually shift to a more westerly pattern, which would bring 25-50 mm per week to rice and corn areas in the western half of the islands.



EASTERN ASIA: Beneficial rain (10-60 mm, with isolated amounts greater than 100 mm) fell across the central and southern North China Plain, favoring vegetative to reproductive winter wheat and moisture for germinating summer crops, but slowing summer crop planting. The northern winter wheat areas (Hebei and Shanxi) received light (less than 10 mm) but beneficial rain. Across Manchuria, light to moderate showers (5-18 mm) aided topsoil moisture for summer crop planting. Widespread showers (15-75 mm) fell across central and southern China, favoring soil moisture for rainfed winter grains and rice irrigation supplies. Heavier showers (100-300 mm) likely caused some flooding in extreme south-central China (Guangdong, portions of both Guangxi and Jiangxi). Temperatures averaged 2-4 degrees C above normal across central and southern China and 1-3 degrees C below normal across the North China Plain and Manchuria.



AUSTRALIA: Dry weather continued across interior eastern Australia, speeding summer crop harvesting to near completion but limiting pasture growth. Coastal areas of northeastern Queensland and northern New South Wales received scattered showers (8-36 mm), favoring sugarcane. The dry spell during February and March likely reduced sugarcane yield potential. Moderate rains (20-40 mm) fell over the wheat region of Western Australia, increasing soil moisture for upcoming winter wheat planting.

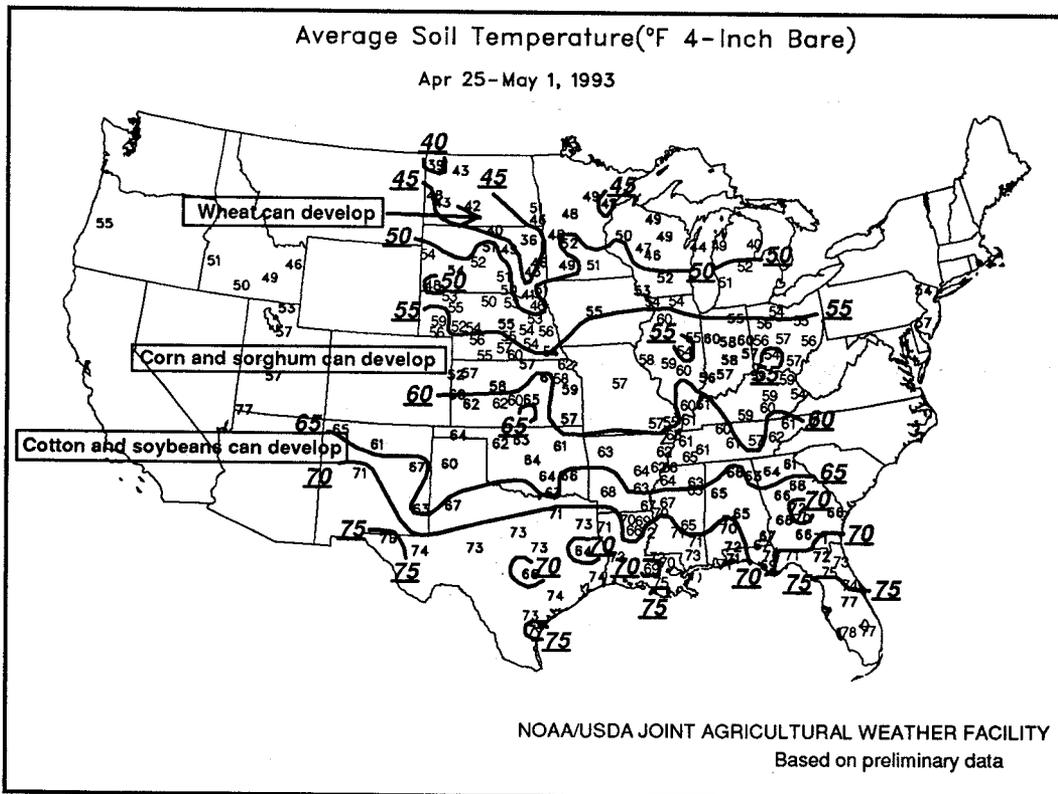
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