

WEEKLY WEATHER AND CROP BULLETIN

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

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

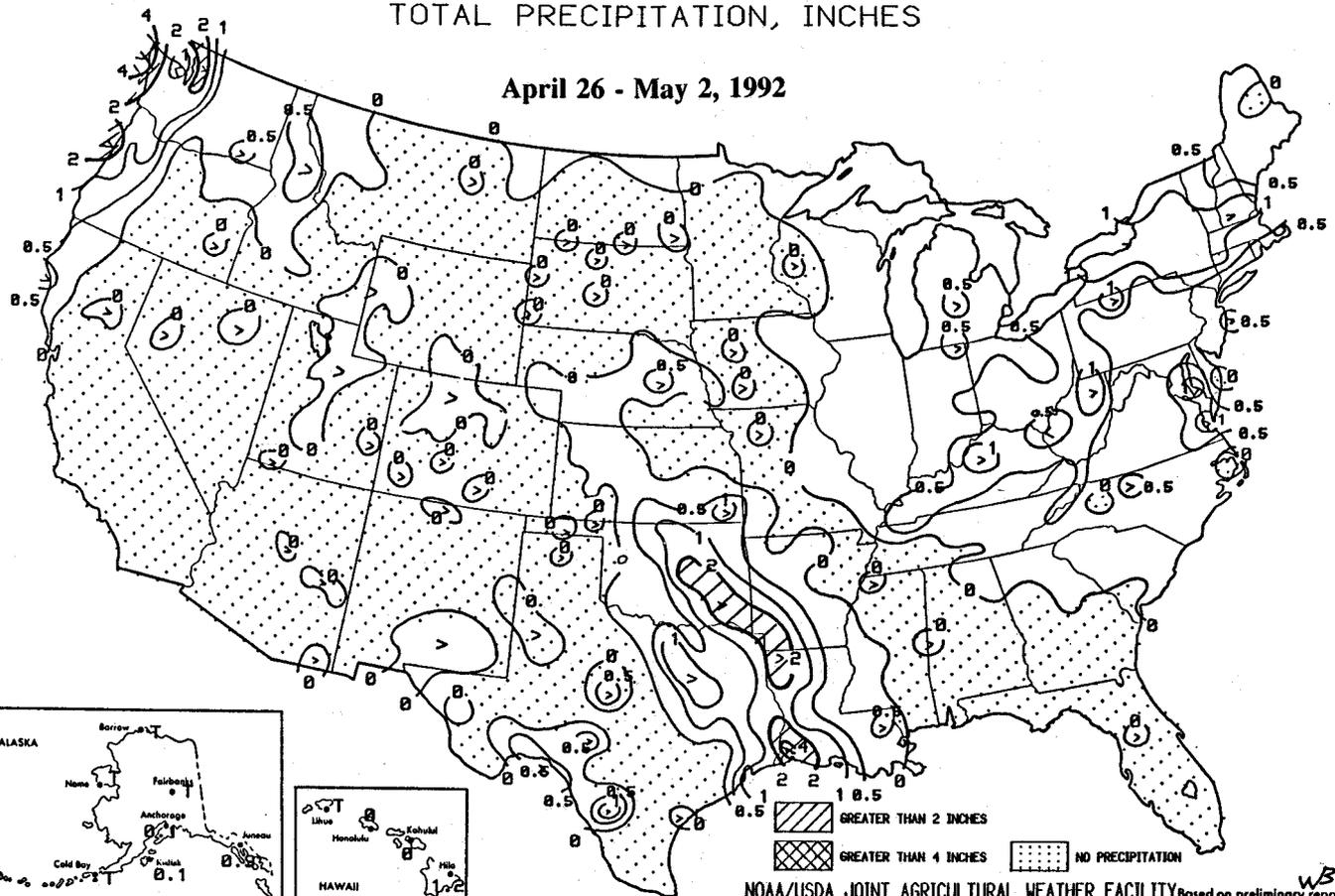
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May 5, 1992

TOTAL PRECIPITATION, INCHES

April 26 - May 2, 1992



NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY Based on preliminary reports

HIGHLIGHTS

April 26 - May 2, 1992

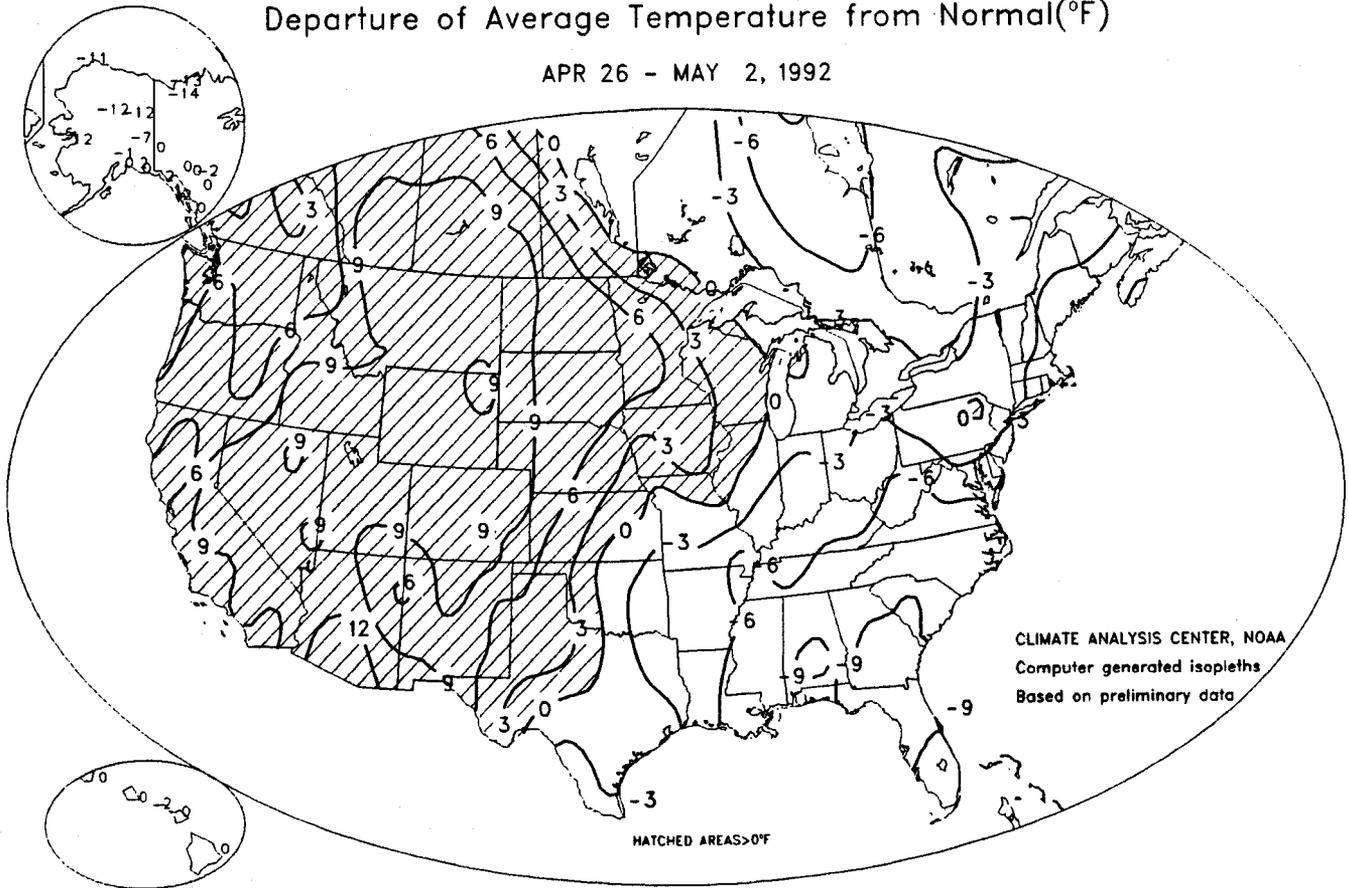
More than 100 daily record lows in the **East** contrasted sharply with 150 daily record highs in the **West**. Significant rainfall was confined to the **Northwest**, the **Northeast**, and the **southeastern Plains**. Early-week temperatures dipped to freezing as far south as **Fayetteville, AR**, and **Oxford, MS**. **Chicago, IL**, and **South Bend, IN**, dropped to 28°F. The core of the cold settled over the **Southeast** by midweek, lowering readings to 32°F in **Greenville, SC**, and 37°F in **Macon, GA**. But from the **Plains** westward, an early heat wave took hold. **North Platte, NE**, rebounded from a daily record low of 24°F on the 26th to set an April record high of 98°F on the 30th. All-time April record highs were established at 20 locations on the 29th and 30th, including **Phoenix, AZ** (105°F), and **Valentine, NE** (100°F). The predominantly dry weather pattern was broken only by a thunderstorm
(Continued to back cover)

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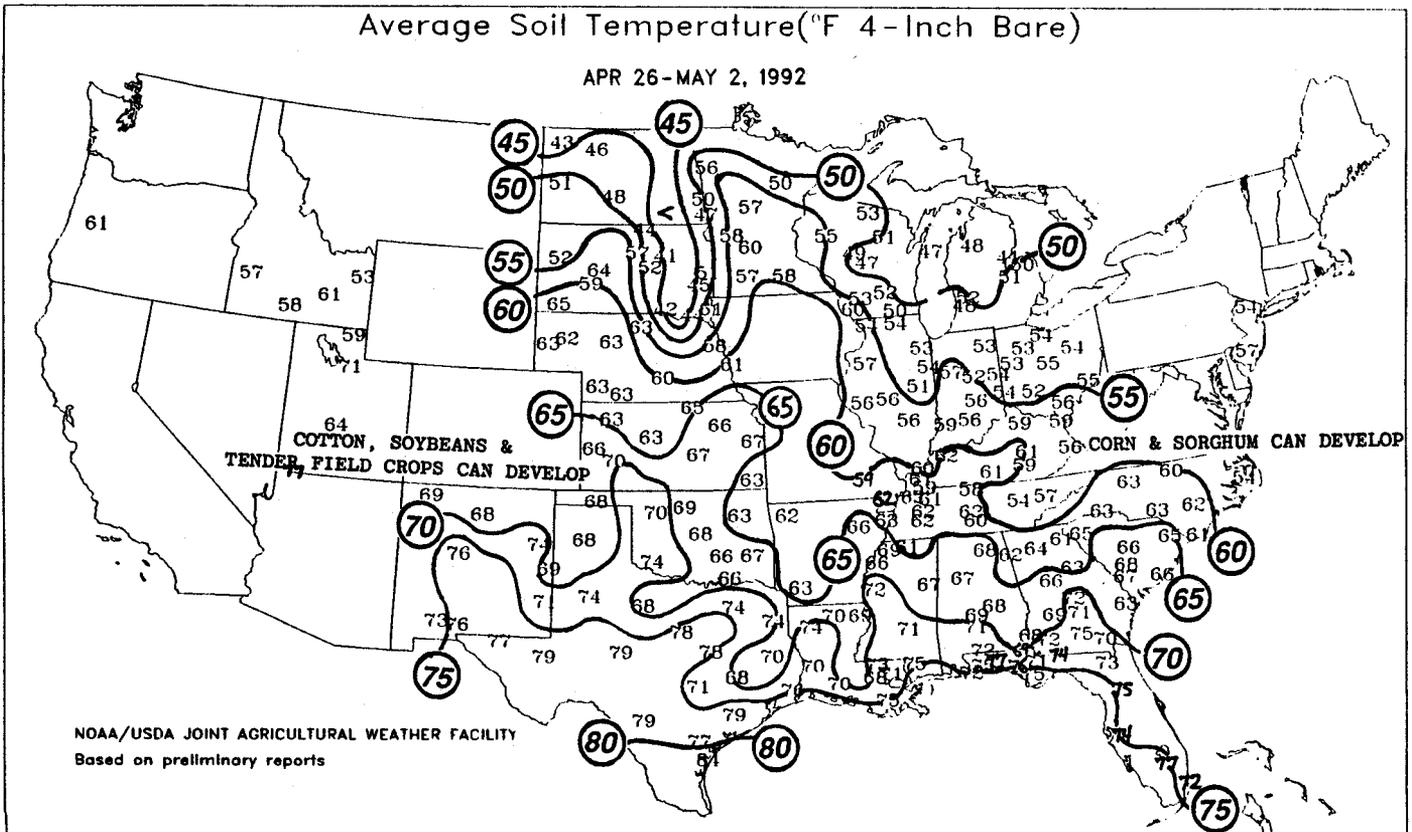
Departure of Average Temperature from Normal(°F)

APR 26 - MAY 2, 1992



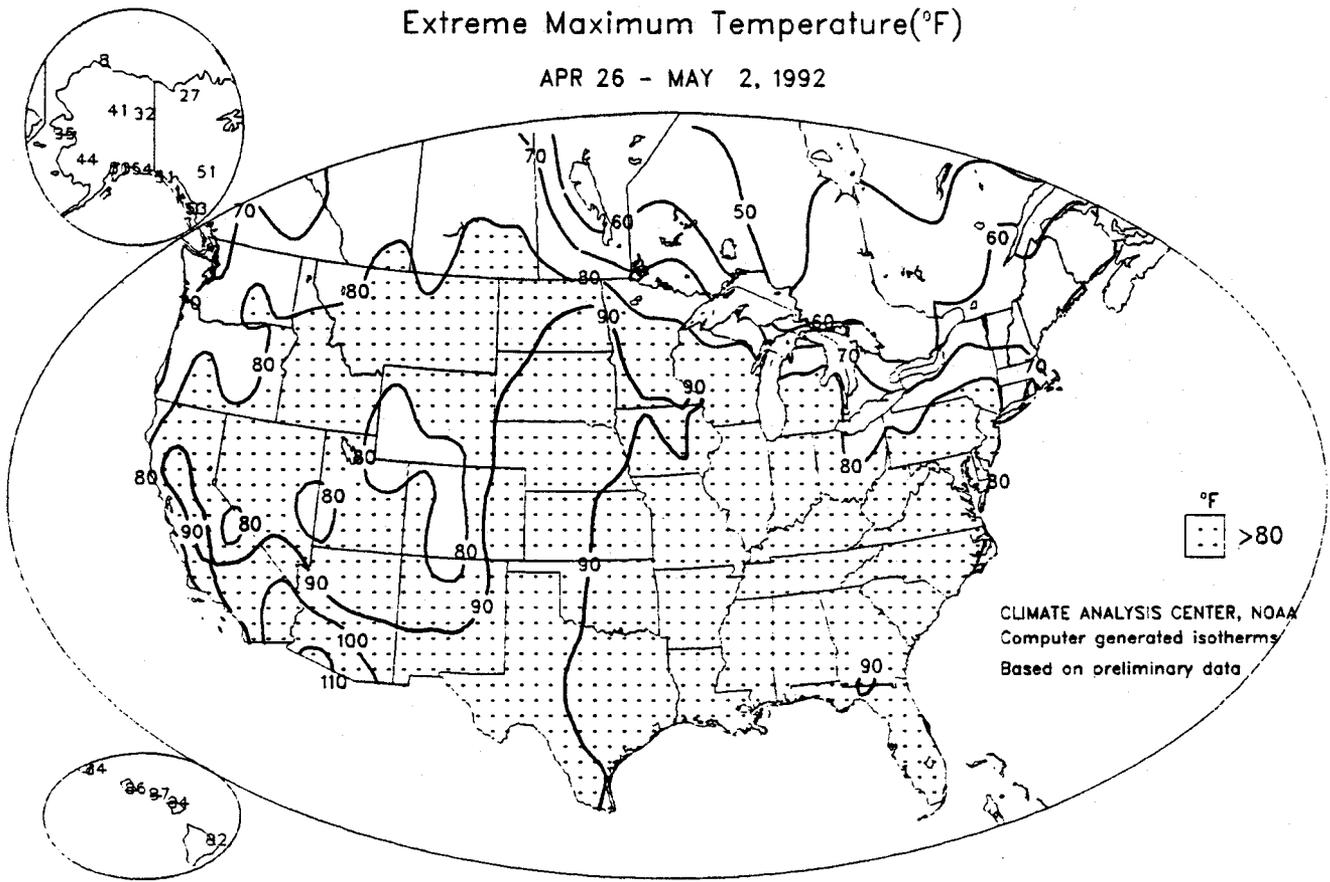
Average Soil Temperature(°F 4-Inch Bare)

APR 26-MAY 2, 1992



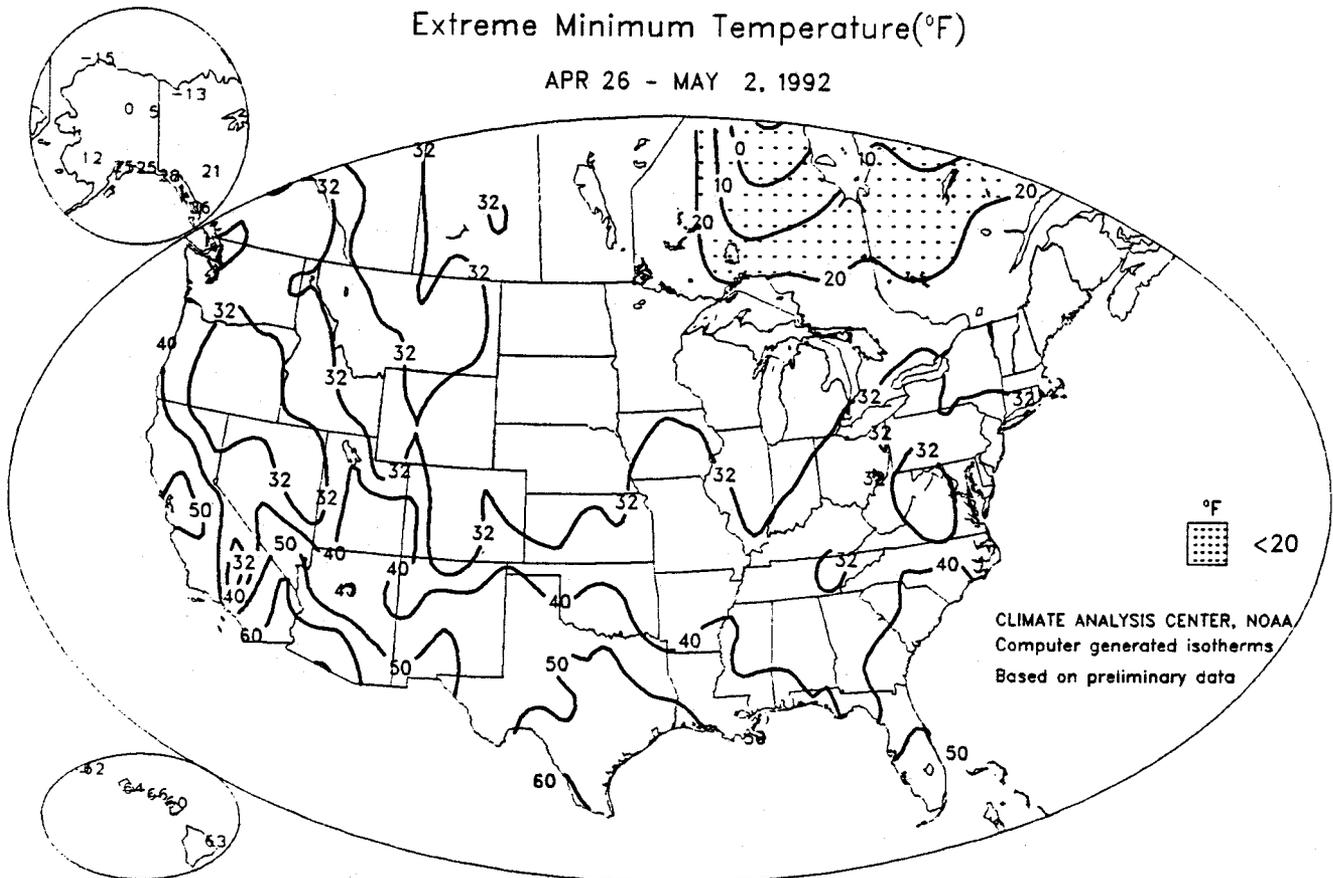
Extreme Maximum Temperature(°F)

APR 26 - MAY 2, 1992



Extreme Minimum Temperature(°F)

APR 26 - MAY 2, 1992

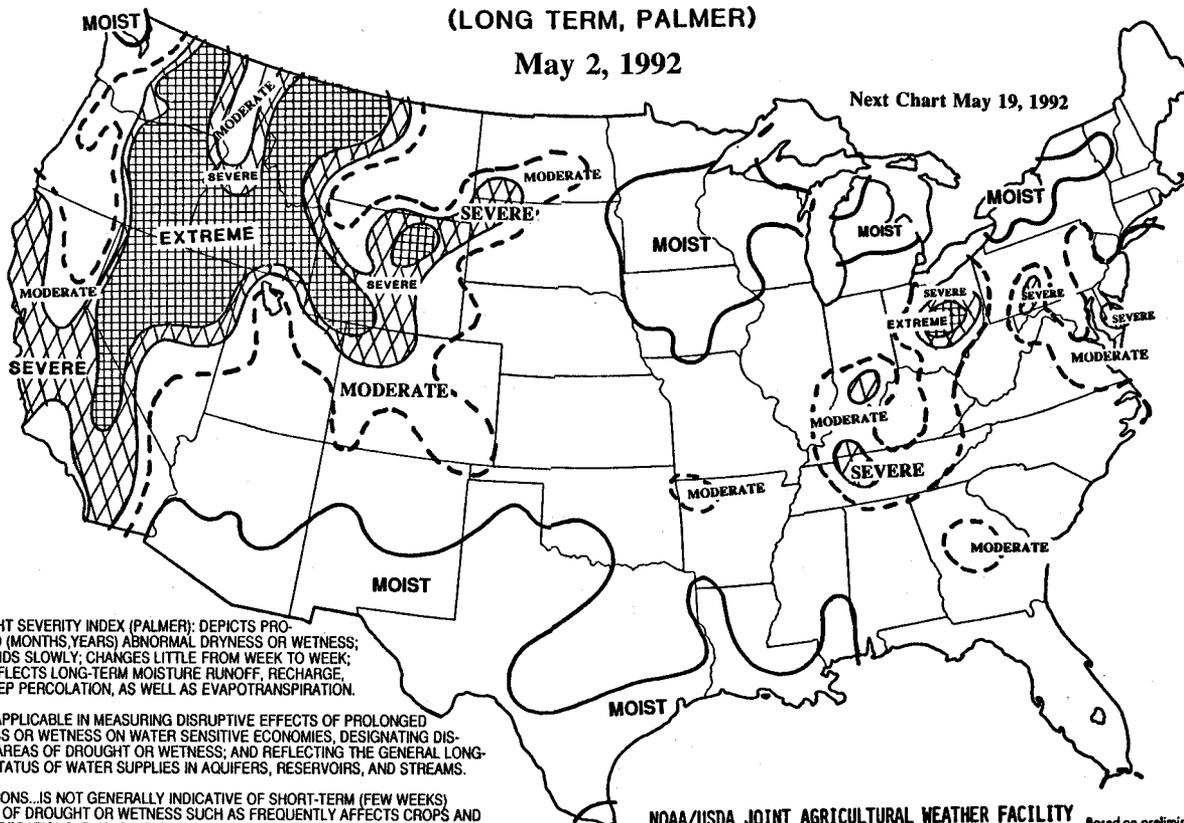


DROUGHT SEVERITY

(LONG TERM, PALMER)

May 2, 1992

Next Chart May 19, 1992



DROUGHT SEVERITY INDEX (PALMER): DEPICTS PROLONGED (MONTHS/YEARS) ABNORMAL DRYNESS OR WETNESS; RESPONDS SLOWLY; CHANGES LITTLE FROM WEEK TO WEEK; AND REFLECTS LONG-TERM MOISTURE RUNOFF, RECHARGE, AND DEEP PERCOLATION, AS WELL AS EVAPOTRANSPIRATION.

USES... APPLICABLE IN MEASURING DISRUPTIVE EFFECTS OF PROLONGED DRYNESS OR WETNESS ON WATER SENSITIVE ECONOMIES, DESIGNATING DISASTER AREAS OF DROUGHT OR WETNESS; AND REFLECTING THE GENERAL LONG-TERM STATUS OF WATER SUPPLIES IN AQUIFERS, RESERVOIRS, AND STREAMS.

LIMITATIONS... IS NOT GENERALLY INDICATIVE OF SHORT-TERM (FEW WEEKS) STATUS OF DROUGHT OR WETNESS SUCH AS FREQUENTLY AFFECTS CROPS AND FIELD OPERATIONS (THIS IS INDICATED BY THE CROP MOISTURE INDEX).

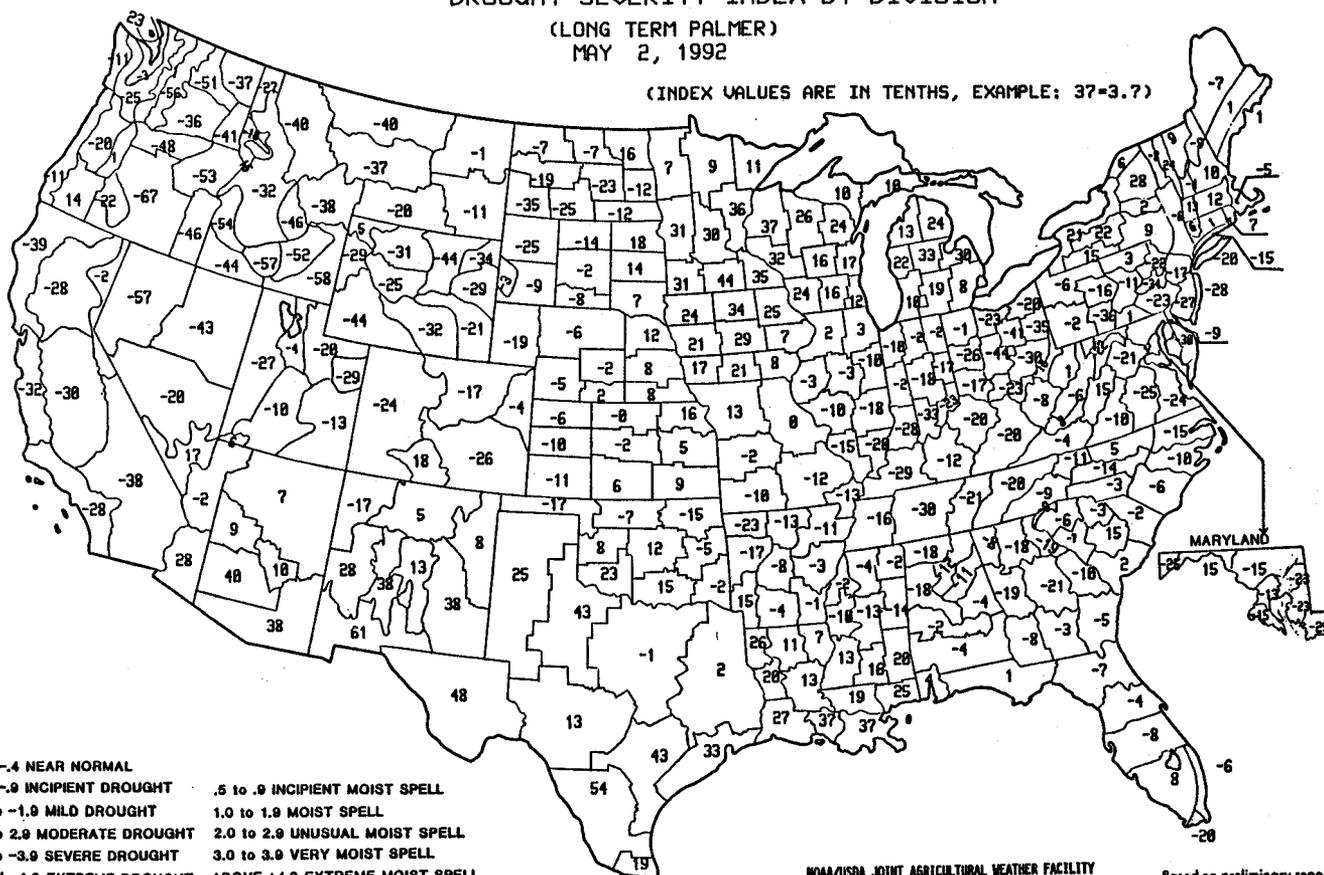
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY Based on preliminary reports

DROUGHT SEVERITY INDEX BY DIVISION

(LONG TERM PALMER)

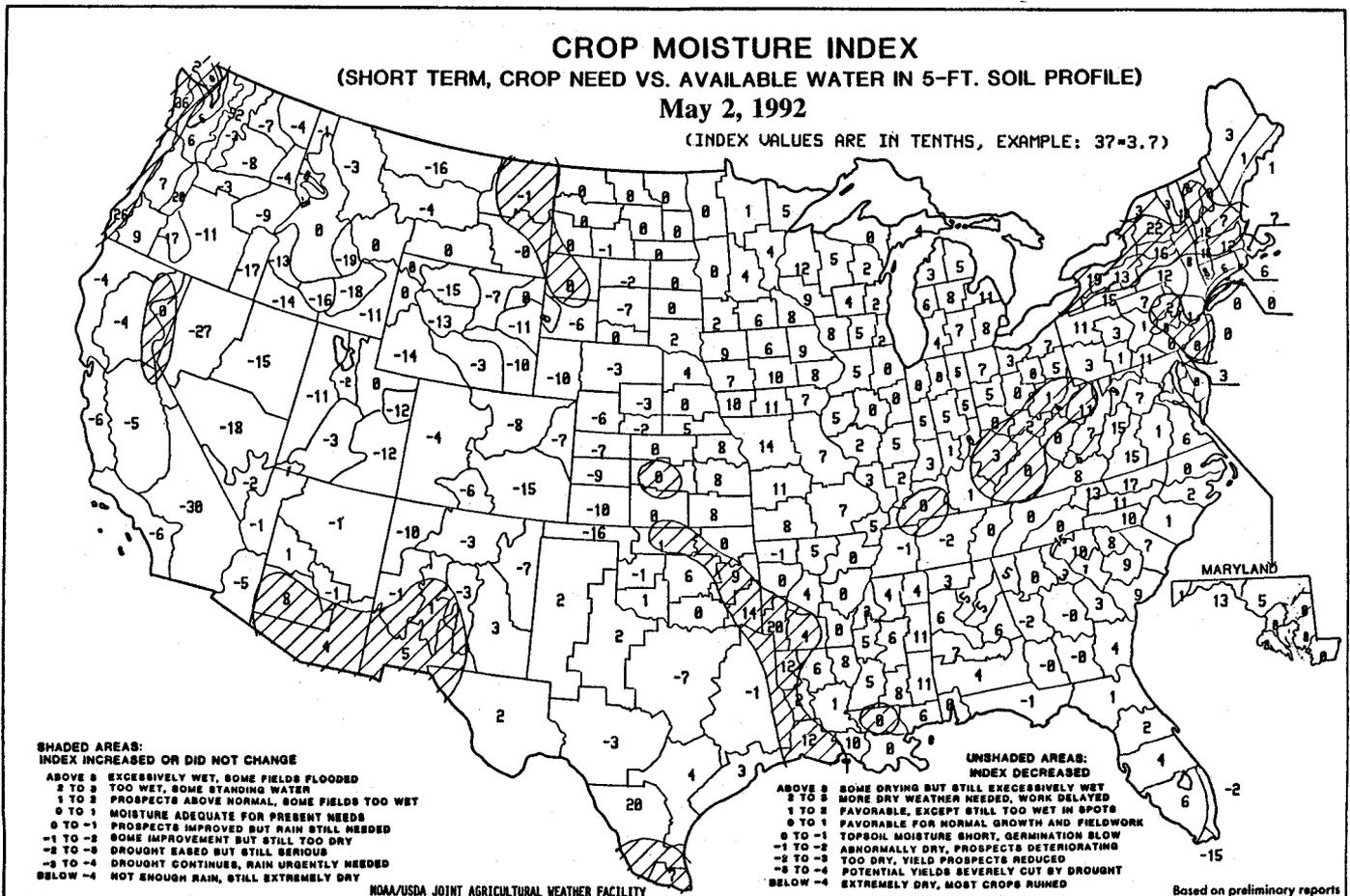
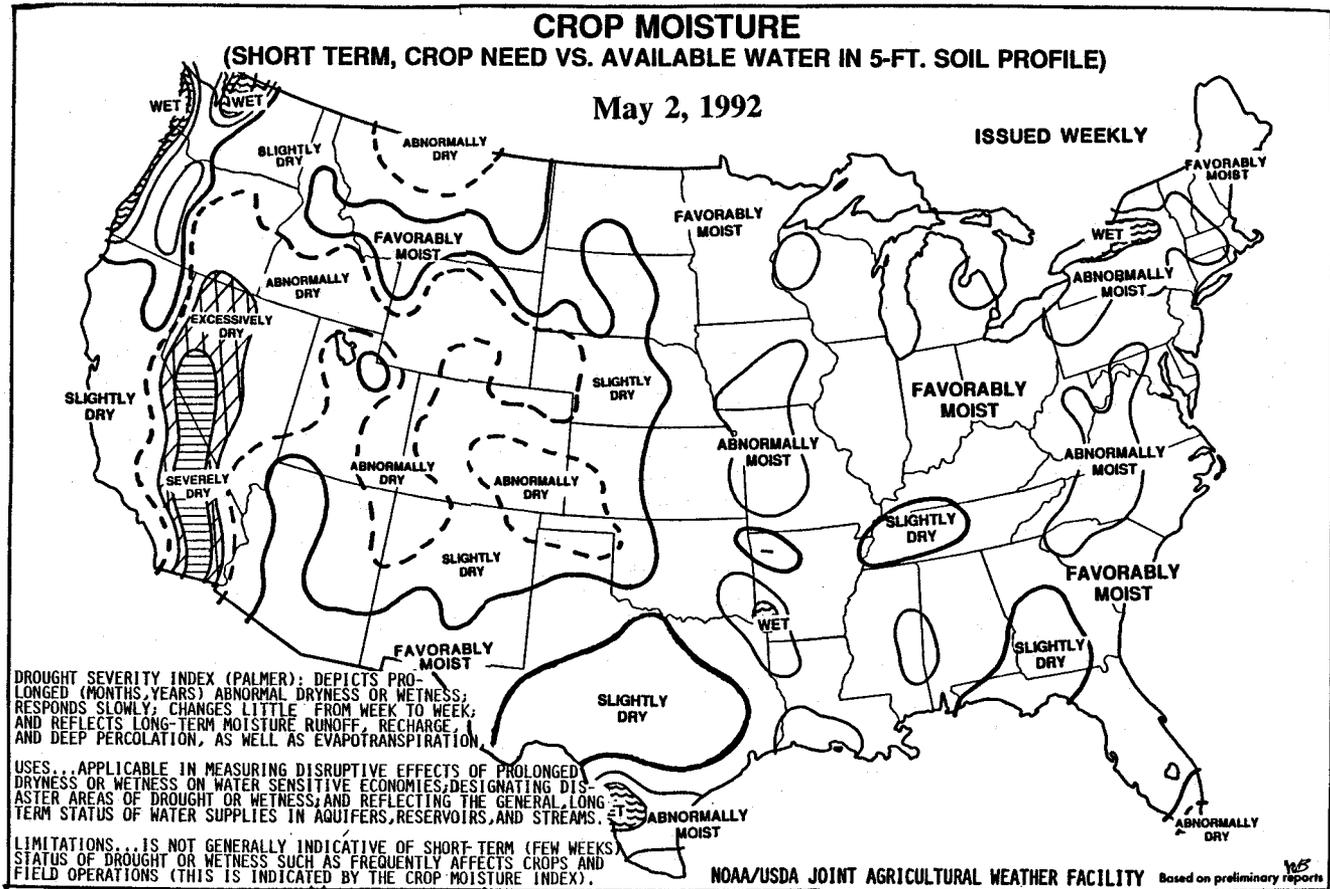
MAY 2, 1992

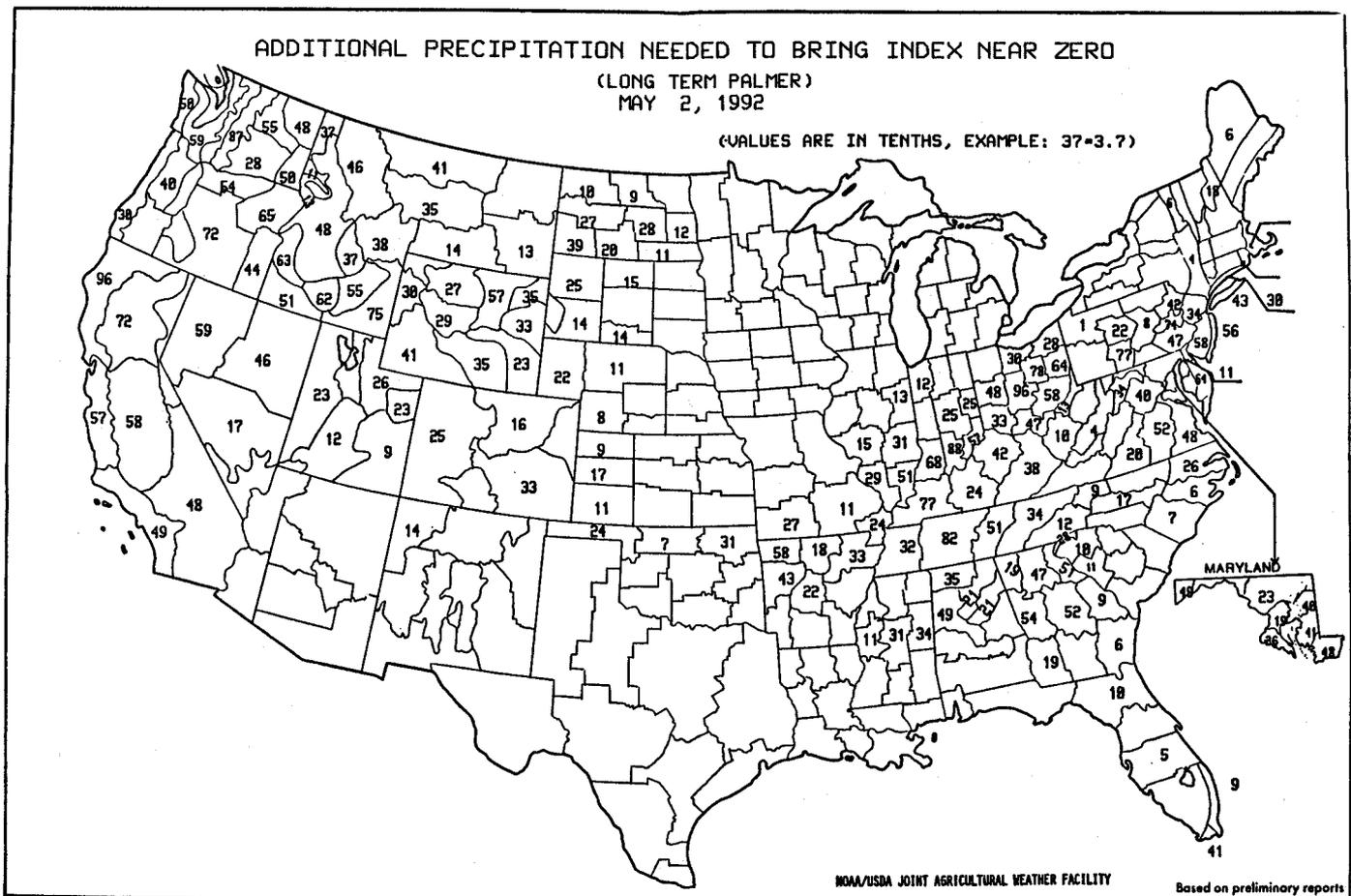
(INDEX VALUES ARE IN TENTHS, EXAMPLE: 37=3.7)



- | | |
|------------------------------|--------------------------------|
| .4 to -.4 NEAR NORMAL | .5 to .9 INCIPENT MOIST SPELL |
| -.5 to -.9 INCIPENT DROUGHT | 1.0 to 1.9 MOIST SPELL |
| -1.0 to -1.9 MILD DROUGHT | 2.0 to 2.9 UNUSUAL MOIST SPELL |
| -2.0 to 2.9 MODERATE DROUGHT | 3.0 to 3.9 VERY MOIST SPELL |
| -3.0 to -3.9 SEVERE DROUGHT | 3.0 to 3.9 VERY MOIST SPELL |
| BELOW -4.0 EXTREME DROUGHT | ABOVE +4.0 EXTREME MOIST SPELL |

NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY Based on preliminary reports





The Drought Severity Index (Long-Term, Palmer)

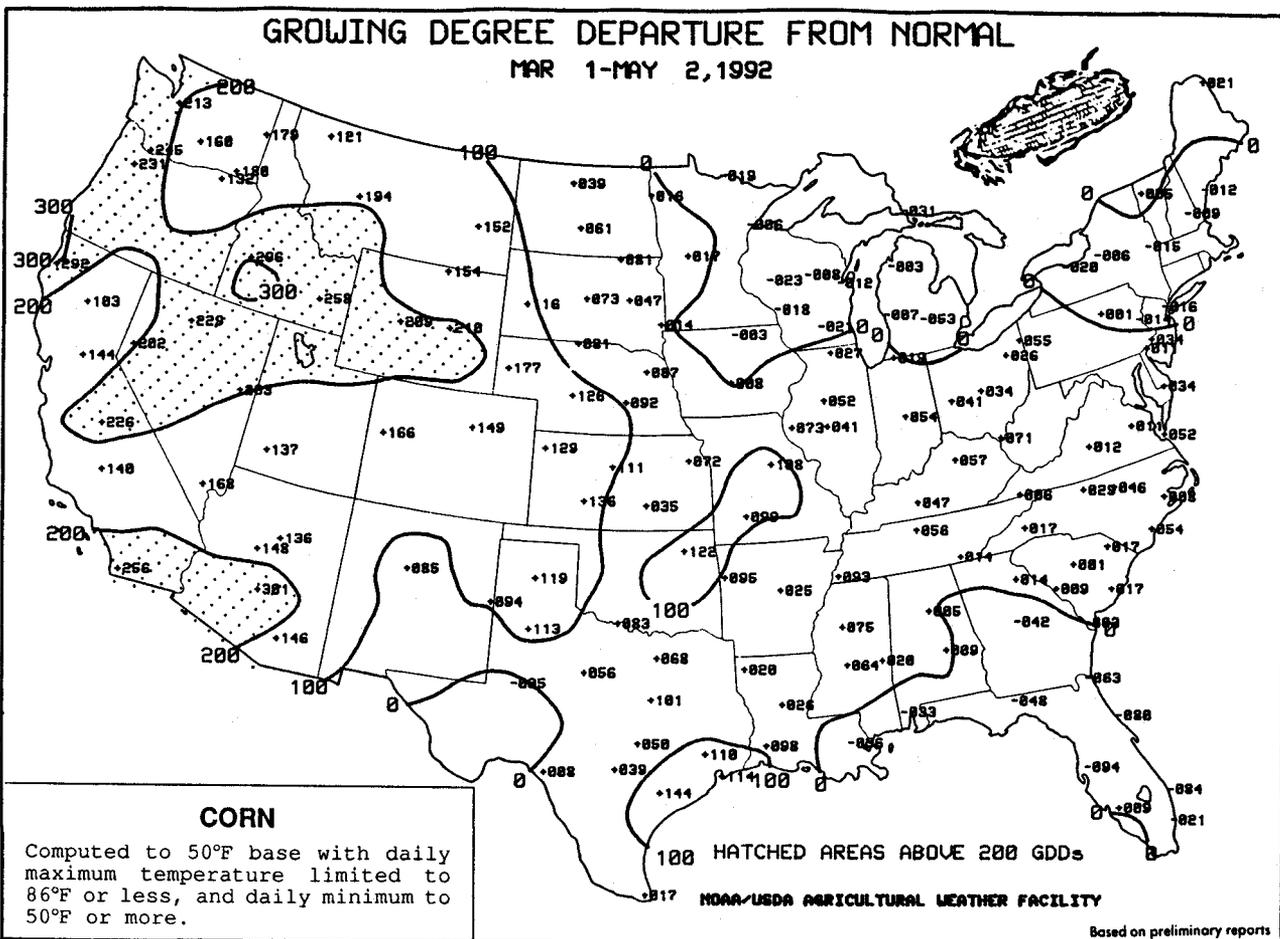
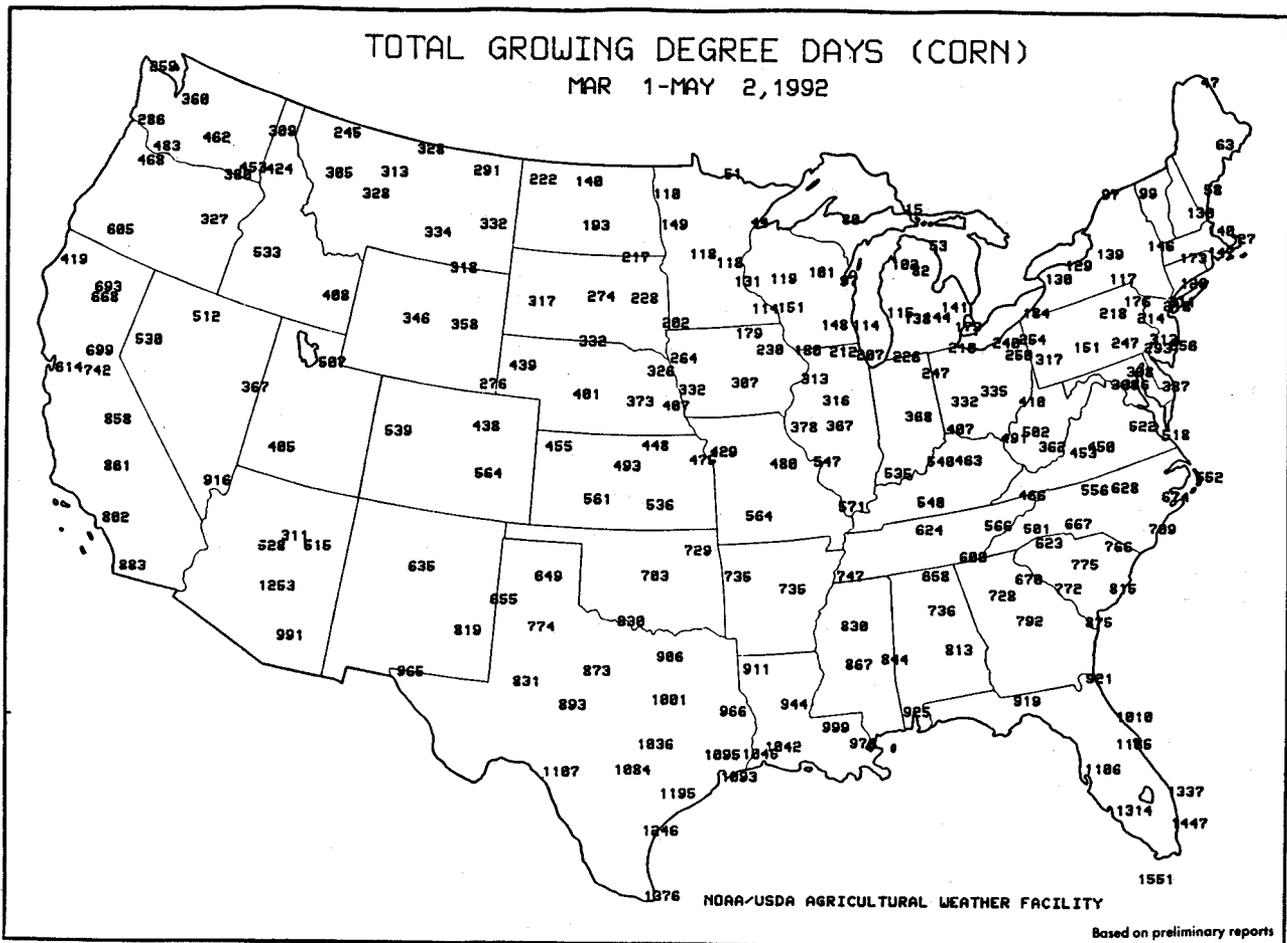
The Drought Severity, or Palmer, Index is an index of meteorological drought (or moisture excess) and indicates prolonged abnormal conditions affecting water-sensitive economies. The index ranges from about -6 to +6, with negative values denoting dry spells and positive values denoting wet spells. Categories of values are given under the accompanying map. The equations for the index were derived from monthly average data and based on the concept of a balance between moisture supply and demand (Palmer, 1965). The equations have been modified to compute the index on a weekly basis for publication in the *Weekly Weather and Crop Bulletin*. Input data consist of weekly temperature averages and precipitation totals for 344 climatic divisions in the United States.

The index is a sum of the current moisture anomaly and a portion of the previous index to include the effect of the duration of the drought or wet spell. The moisture anomaly is the product of a climatic weighting factor and the moisture departure. The weighting factor allows the index to have a reasonably comparable significance for different locations and time of year. An index value for a division in Florida would have the same local implication as a similar value in a more arid division in western Kansas. The moisture departure is the difference of water supply and demand. Supply is precip-

itation and stored soil moisture, and demand is the potential evapotranspiration, the amount needed to recharge the soil, and runoff needed to keep the rivers, lakes, and reservoirs at a normal level. The runoff and soil recharge and loss are computed by keeping a hydrologic accounting of moisture storage in two soil layers. The surface layer can store 1 inch, while the available capacity in the underlying layer depends on the soil characteristics of the division being measured. Potential evapotranspiration is derived from Thornthwaite's method (1948).

A parameter derived from the calculations of the Drought Severity Index is the additional precipitation in inches needed to bring the index to near zero. This parameter is computed for all values of the current week's index less than -0.5 (the upper limit of an incipient drought) and left blank for all values greater than or equal to -0.5. The precipitation values are theoretically the additional amounts required to end the drought defined by the index in each climatic division. In using this parameter to make projections, it must be realized that these values are instantaneous, valid only for the current week. To end drought in a given climatic division for the oncoming week, the precipitation amount listed plus near-normal rainfall must occur.

--Tom Heddinghaus



National Weather Data for Selected Cities

Weather Data for the Week Ending **May 2, 1992**

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS					
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Mar 1	PCT. NORMAL SINCE Mar 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE	MAXIMUM	MINIMUM	TEMP. °F		PRECIP.	
																	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	71	44	85	37	58	-9	F	-1.1	F	6.0	50	13.7	62	93	40	0	0	0	0	
MOBILE	75	49	86	42	62	-10	.0	-1.2	.0	5.5	46	25.4	117	92	35	0	0	0	0	
MONTGOMERY	74	45	86	36	60	-9	.0	-1.9	.0	6.0	57	22.0	114	93	37	0	0	0	0	
AK ANCHORAGE	49	33	52	29	41	0	.1	-1.1	.1	3.0	30	2.6	88	81	41	0	2	1	0	
BARROW	4	-9	8	-15	-3	-11	.1	-1.0	.0	2.2	69	4.4	55	83	70	0	0	0	0	
FAIRBANKS	39	24	46	15	32	-8	.1	-1.1	.0	5.5	81	2.1	124	71	33	0	7	0	0	
JUNEAU	48	40	53	37	44	1	1.6	-1.9	.4	10.7	166	26.6	191	94	68	0	0	6	0	
KODIAK	50	36	54	29	43	3	.1	-1.9	.1	7.6	96	18.8	100	89	51	0	2	2	0	
NOME	29	15	35	2	22	-2	.1	-1.1	.0	10.3	103	2.1	85	89	60	0	7	2	0	
AZ PHOENIX	103	72	105	70	87	15	.0	-1.0	.0	1.2	203	5.5	234	30	10	7	0	0	0	
PRESCOTT	83	47	89	43	65	11	.0	-1.1	.0	3.0	114	5.2	163	40	12	0	0	0	0	
TUCSON	100	63	102	60	82	13	.0	-1.1	.0	2.3	235	5.4	220	38	11	7	0	0	0	
YUMA	102	69	106	66	86	11	.0	-1.0	.0	1.6	607	2.9	321	---	---	7	0	0	0	
AR FORT SMITH	73	49	84	36	61	-5	.4	-1.6	.4	6.2	73	9.1	71	95	46	0	0	0	0	
LITTLE ROCK	73	53	82	41	63	-4	.0	-1.3	.0	9.8	94	13.9	76	81	51	0	0	0	0	
CA BAKERSFIELD	88	57	93	53	73	7	.0	-1.1	.0	1.9	120	5.6	154	62	24	4	0	0	0	
EUREKA	67	52	73	46	59	9	.3	-1.2	.2	6.0	75	13.7	68	88	61	0	0	0	0	
FRESNO	88	57	92	53	73	9	.0	-1.2	.0	2.3	85	9.0	135	70	21	5	0	0	0	
LOS ANGELES	76	60	80	58	68	7	.0	-1.1	.0	5.3	200	11.6	141	89	54	0	0	0	0	
REDDING	82	53	91	46	68	3	.0	-1.4	.0	5.3	68	18.5	82	83	26	2	0	0	0	
SACRAMENTO	84	52	92	48	68	7	.0	-1.2	.0	2.9	89	9.8	95	89	25	2	0	0	0	
SAN DIEGO	79	62	83	60	71	8	.0	-1.1	.0	4.7	200	9.8	167	88	49	0	0	0	0	
SAN FRANCISCO	75	53	84	50	64	8	.0	-1.2	.0	4.4	107	12.9	107	92	42	0	0	0	0	
CO DENVER	80	47	90	34	64	11	.0	-1.5	.0	4.0	127	5.3	122	55	15	1	0	0	0	
GRAND JUNCTION	85	51	89	44	68	11	.0	-1.2	.0	1.9	125	2.4	91	41	11	0	0	0	0	
PUEBLO	84	43	94	32	63	7	.0	-1.3	.0	1.7	97	2.0	85	55	15	2	1	0	0	
CT BRIDGEPORT	60	43	79	38	52	-2	.1	-1.7	.1	5.7	72	9.7	68	88	45	0	0	2	0	
HARTFORD	65	38	81	32	52	-3	1.1	-2.2	1.0	8.0	96	13.0	86	93	35	0	1	2	1	
DC WASHINGTON	67	48	87	43	57	-4	.6	-1.1	.6	6.0	91	11.0	92	90	44	0	0	2	1	
FL APALACHICOLA	76	51	88	43	64	-7	.0	-1.7	.0	3.1	42	18.4	124	---	---	0	0	0	0	
DAYTONA BEACH	75	51	83	47	63	-9	.0	-1.5	.0	5.1	95	9.2	84	86	36	0	0	0	0	
JACKSONVILLE	75	50	89	45	63	-10	.0	-1.8	.0	9.4	142	17.9	134	87	33	0	0	0	0	
KEY WEST	78	65	83	59	71	-8	.0	-1.5	.0	4.2	147	5.7	86	73	45	0	0	0	0	
MIAMI	81	60	87	54	70	-7	.0	-1.1	.0	5.1	92	8.4	87	82	34	0	0	0	0	
ORLANDO	77	56	86	53	66	-8	.0	-1.6	.0	12.8	225	16.6	150	88	33	0	0	0	0	
TALLAHASSEE	78	44	91	34	61	-9	.0	-1.0	.0	4.2	42	17.1	87	93	28	1	0	0	0	
TAMPA	75	53	82	44	64	-10	.0	-1.5	.0	3.1	58	8.2	78	87	43	0	0	0	0	
WEST PALM BEACH	79	58	83	53	68	-8	.0	-1.0	.0	5.2	84	10.2	88	81	35	0	0	0	0	
GA ATLANTA	70	48	86	39	59	-7	.0	-1.9	.0	4.8	46	12.4	62	84	36	0	0	0	0	
AUGUSTA	74	44	89	39	59	-8	.0	-1.7	.0	6.4	76	15.5	94	94	35	0	0	1	0	
MACON	74	45	88	37	59	-10	.0	-1.8	.0	5.6	63	16.0	90	88	33	0	0	0	0	
SAVANNAH	74	50	88	44	62	-8	.0	-1.8	.0	6.1	83	14.9	109	84	30	0	0	0	0	
HI HILO	78	66	83	63	72	-1	1.2	-1.5	.4	10.6	39	13.3	26	96	66	0	0	6	0	
HONOLULU	85	68	86	65	76	0	.0	-1.3	.0	.8	16	2.6	22	75	45	0	0	0	0	
KAHULUI	84	67	85	60	75	0	.0	-1.2	.0	1.3	33	4.7	43	88	54	0	0	0	0	
LIHUE	80	67	84	62	74	0	.0	-1.7	.0	4.6	58	8.9	50	81	55	0	0	0	0	
ID BOISE	78	48	89	37	63	10	.0	-1.3	.0	.8	37	2.1	42	59	19	0	0	0	0	
LEWISTON	72	47	80	38	60	5	.1	-1.2	.1	2.2	98	3.6	79	76	35	0	0	2	0	
POCATELLO	77	42	86	30	59	10	.0	-1.3	.0	1.2	56	2.1	50	62	15	0	1	0	0	
IL CHICAGO	65	39	88	28	52	-2	.1	-1.7	.1	4.9	72	7.1	74	88	39	0	2	2	0	
MOLINE	71	46	87	29	58	2	.0	-1.9	.0	3.9	56	7.0	70	86	34	0	1	1	0	
PRORIA	70	45	87	31	57	1	.1	-1.8	.1	4.2	60	6.8	68	88	38	0	1	3	0	
QUINCY	70	49	84	38	59	1	.2	-1.8	.2	7.8	106	9.8	96	78	38	0	0	2	0	
ROCKFORD	66	44	88	29	55	1	.1	-1.8	.0	5.7	80	8.0	82	87	41	0	1	3	0	
SPRINGFIELD	69	46	84	31	57	-2	.2	-1.7	.2	5.2	72	7.8	74	92	41	0	1	2	0	
IN EVANSVILLE	68	46	84	36	57	-4	.2	-1.8	.2	5.9	65	8.2	54	93	46	0	0	2	0	
FORT WAYNE	63	41	83	31	52	-2	.3	-1.6	.1	6.7	99	9.8	90	89	49	0	1	3	0	
INDIANAPOLIS	64	42	83	31	53	-4	.0	-1.8	.0	6.8	91	9.4	74	87	48	0	1	1	0	
SOUTH BEND	64	41	86	28	52	-2	.2	-1.6	.1	5.1	70	8.5	72	91	45	0	2	2	0	
IA DES MOINES	72	49	88	37	61	4	.0	-1.8	.0	6.1	107	9.2	118	77	34	0	0	0	0	
SIOUX CITY	75	44	91	27	60	4	.0	-1.7	.0	4.7	110	6.0	103	78	30	2	2	0	0	
WATERLOO	71	46	89	31	58	5	.1	-1.8	.1	6.8	112	9.4	119	83	33	0	1	1	0	
KS CONCORDIA	74	48	88	33	61	3	.0	-1.7	.0	4.6	105	6.2	106	86	37	0	0	0	0	
DODGE CITY	80	49	98	32	64	5	.0	-1.6	.0	1.6	47	2.4	53	73	26	2	1	0	0	
GOODLAND	81	44	96	25	63	9	.0	-1.5	.0	1.9	81	2.6	84	66	20	2	1	0	0	
TOPEKA	74	47	87	35	60	1	.0	-1.8	.0	8.5	154	10.6	141	90	37	0	0	0	0	
WICHITA	73	49	84	35	61	0	.2	-1.5	.2	5.0	105	6.1	97	96	50	0	0	1	0	
KY BOWLING GREEN	69	45	87	35	57	-5	.5	-1.4	.5	7.8	79	12.9	69	94	45	0	0	3	0	
LEXINGTON	66	46	82	36	56	-4	1.0	-1.0	.5	7.3	80	12.8	79	88	46	0	0	4	0	
LOUISVILLE	68	47	85	39	57	-4	1.0	-1.1	.8	9.3	103	13.0	83	87	43	0	0	3	1	
LA ALEXANDRIA	75	57	83	45	66	-5	.4	-1.9	.4	9.4	87	22.3	111	89	53	0	0	2	0	
BATON ROUGE	77	54	86	44	65	-6	.1	-1.2	.1	6.8	64	24.0	118	93	42	0	0	1	0	
LAKE CHARLES	77	61	80	52	69	-3	3.1	-1.9	3.1	11.3	152	26.2	169	95	58	0	0	1	1	
NEW ORLEANS	76	53	83	44	65	-7	.1	-1.1	.1	9.4	99	28.1	142	93	43	0	0	1	0	

Based on 1951-80 normals.

Weather Data for the Week Ending May 2, 1992

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS							
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Mar 1	PCT. NORMAL SINCE Mar 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE	MAXIMUM	MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE		.50 INCH OR MORE	
																			0	1	0	1
SHREVEPORT	77	54	85	44	65	-4	2.5	1.4	2.5	9.2	104	20.3	123	92	47	0	0	0	0	2	1	
ME CARIBOU	55	31	63	23	43	-1	1	1	1	4.5	88	11.0	113	68	25	0	0	0	0	1	0	
PORTLAND	52	34	62	30	44	-4	1	1	1	6.6	82	14.8	96	89	42	0	0	0	0	0	0	
MD BALTIMORE	66	44	87	38	55	-4	4	4	4	6.4	88	10.1	76	92	43	0	0	0	0	0	0	
SALISBURY	65	42	84	34	54	-5	4	4	4	5.0	67	11.0	77	91	46	0	0	0	0	0	0	
MA BOSTON	57	40	70	37	49	-5	9	9	9	6.7	84	12.1	77	87	46	0	0	0	0	0	1	
CHATHAM	49	37	55	32	43	-5	1	1	1	6.0	73	9.6	57	84	63	0	0	0	0	2	2	
MI ALPENA	55	36	67	27	46	-1	1	1	1	4.1	89	7.5	98	88	42	0	0	0	0	2	2	
DETROIT	64	41	83	32	52	0	1	1	1	7.7	131	11.0	116	84	42	0	0	0	0	1	1	
FLINT	62	38	82	27	50	-1	1	1	1	6.4	119	9.1	108	90	46	0	0	0	0	1	1	
GRAND RAPIDS	63	42	87	30	52	0	1	1	1	7.5	117	10.1	101	92	43	0	0	0	0	1	1	
ROUGHTON LAKE	58	38	76	26	48	0	3	3	3	5.3	112	7.9	105	86	42	0	0	0	0	2	2	
LANSING	62	39	84	26	51	-1	1	1	1	7.3	136	10.1	119	95	49	0	0	0	0	1	1	
MARQUETTE	54	31	80	25	43	-1	1	1	1	4.7	70	8.7	81	88	52	0	0	0	0	5	2	
MUSKEGON	58	40	75	27	49	-2	2	2	2	5.6	95	8.3	84	89	44	0	0	0	0	2	2	
SAULT ST. MARIE	51	34	57	26	42	-2	2	2	2	4.5	99	8.5	100	91	52	0	0	0	0	2	2	
MN ALEXANDRIA	71	43	87	31	57	8	8	8	8	3.8	107	5.1	99	78	27	0	0	0	0	1	1	
DULUTH	60	34	82	22	47	2	2	2	2	3.8	91	4.9	80	87	35	0	0	0	0	3	1	
INT'L FALLS	60	35	76	25	47	2	1	1	1	3.3	74	4.5	101	94	42	0	0	0	0	2	3	
MINNEAPOLIS	70	45	87	30	58	5	5	5	5	3.6	91	4.8	86	70	31	0	0	0	0	1	3	
ROCHESTER	67	43	89	29	55	4	4	4	4	5.8	126	7.3	121	80	37	0	0	0	0	1	0	
MS GREENWOOD	75	50	85	40	63	-6	0	0	0	6.6	55	12.3	56	93	41	0	0	0	0	0	0	
JACKSON	74	47	85	38	62	-7	0	0	0	3.6	31	11.7	56	96	40	0	0	0	0	1	0	
MERIDIAN	74	46	86	39	60	-8	0	0	0	9.8	79	20.8	94	93	35	0	0	0	0	0	0	
MO CAPE GIRARDEAU	69	48	85	35	58	-1	1	1	1	5.8	59	11.1	70	91	46	0	0	0	0	3	1	
COLUMBIA	71	48	85	36	59	-1	1	1	1	5.7	75	8.1	72	85	42	0	0	0	0	1	0	
KANSAS CITY	71	48	85	36	59	-2	0	0	0	8.7	138	11.9	136	91	41	0	0	0	0	0	0	
SAINT LOUIS	72	51	87	38	62	0	1	1	1	5.9	84	8.9	81	80	39	0	0	0	0	1	0	
SPRINGFIELD	71	46	83	35	58	-2	0	0	0	4.7	60	7.8	67	93	45	0	0	0	0	1	1	
MT BILLINGS	76	46	85	36	61	11	0	0	0	3.0	96	3.2	67	59	18	0	0	0	0	0	0	
GLASGOW	76	45	86	35	61	11	0	0	0	1.8	72	1.1	61	61	18	0	0	0	0	0	0	
GREAT FALLS	73	43	84	35	58	10	0	0	0	1.8	70	2.5	58	61	19	0	0	0	0	0	0	
HAVRE	75	44	83	30	60	10	0	0	0	1.5	27	1.7	24	68	18	0	0	0	0	1	0	
HELENA	74	41	86	33	58	10	0	0	0	1.2	63	1.5	52	68	18	0	0	0	0	1	0	
KALISPELL	66	37	74	27	52	4	1	1	1	2.0	98	3.9	84	88	37	0	0	0	0	2	2	
MILES CITY	78	45	85	37	62	10	0	0	0	2.9	137	3.0	91	71	22	0	0	0	0	0	0	
MISSOULA	70	38	83	31	54	6	1	1	1	2.9	149	3.4	83	84	31	0	0	0	0	1	1	
NE GRAND ISLAND	77	44	93	29	61	5	0	0	0	3.7	84	6.5	113	81	29	2	2	2	2	1	0	
LINCOLN	76	44	90	28	60	3	0	0	0	3.3	66	5.6	84	83	32	1	2	2	0	0	0	
NORFOLK	78	43	95	26	60	5	0	0	0	3.2	80	5.3	100	78	27	2	2	2	2	1	0	
NORTH PLATTE	80	42	98	24	61	8	1	1	1	3.3	103	5.6	137	83	22	1	2	2	0	0	0	
OMAHA	74	48	90	34	61	3	1	1	1	6.5	127	9.0	133	80	42	1	0	0	0	2	2	
SCOTTSBLUFF	81	42	93	24	61	10	0	0	0	1.5	60	3.2	94	69	16	1	1	1	0	0	0	
VALENTINE	79	41	100	21	60	8	0	0	0	2.2	76	3.0	80	73	21	1	1	1	0	0	0	
NV ELY	76	36	82	25	56	11	0	0	0	1.5	79	2.7	81	51	14	0	0	0	0	1	0	
LAS VEGAS	93	65	97	61	79	11	0	0	0	4.8	803	6.6	425	36	12	6	0	0	0	0	0	
RENO	77	46	84	37	61	11	0	0	0	1.1	62	1.3	39	59	16	0	0	0	0	0	0	
WINNEMUCCA	79	41	87	33	60	10	0	0	0	1.1	74	1.4	46	52	13	0	0	0	0	0	0	
NH CONCORD	62	33	69	26	48	-2	1	1	1	5.6	90	8.8	77	92	34	0	0	0	0	4	3	
NJ ATLANTIC CITY	62	39	85	30	51	-5	3	3	3	4.6	62	7.6	53	94	46	0	0	0	0	2	2	
NM ALBUQUERQUE	85	54	88	50	69	10	0	0	0	1.6	94	1.6	98	47	13	0	0	0	0	0	0	
CLOVIS	82	51	92	42	66	5	2	2	2	1.6	109	3.8	158	71	20	3	0	0	0	1	0	
ROSWELL	88	53	96	45	71	6	1	1	1	1.9	104	2.4	149	67	22	3	0	0	0	1	0	
NY ALBANY	65	38	82	29	52	0	1	1	1	5.8	94	8.9	83	85	30	0	0	0	0	2	1	
BINGHAMTON	59	41	79	35	50	0	1	1	1	7.7	124	11.3	102	85	41	0	0	0	0	4	1	
BUFFALO	59	41	70	36	50	-1	1	1	1	8.3	134	12.8	110	91	43	0	0	0	0	4	1	
NEW YORK	65	48	86	43	56	0	1	1	1	5.6	70	8.5	59	86	38	0	0	0	0	2	0	
ROCHESTER	60	41	75	36	51	-1	1	1	1	8.1	154	11.5	114	87	43	0	0	0	0	4	1	
SYRACUSE	61	38	79	30	50	-2	1	1	1	8.8	133	13.9	117	91	39	0	0	0	0	4	1	
NC ASHEVILLE	67	41	86	33	54	-6	0	0	0	7.5	88	14.2	95	93	39	0	0	0	0	1	0	
CHARLOTTE	69	47	87	42	58	-7	0	0	0	7.5	90	15.1	94	80	35	0	0	0	0	1	0	
GREENSBORO	67	42	84	35	55	-8	0	0	0	8.6	119	15.2	107	90	35	0	0	0	0	3	0	
HATTERAS	64	47	73	38	55	-8	1	1	1	8.5	115	17.1	104	86	52	0	0	0	0	1	0	
NEW BERN	70	46	83	40	58	-8	2	2	2	4.9	71	13.6	91	94	39	0	0	0	0	1	0	
RALEIGH	69	43	86	37	56	-7	1	1	1	4.9	72	10.9	79	90	34	0	0	0	0	2	1	
WILMINGTON	70	46	80	44	58	-9	1	1	1	8.8	121	18.0	125	93	38	0	0	0	0	1	0	
ND BISMARCK	74	41	93	20	58	8	0	0	0	3	36	1.6	48	70	24	1	1	1	0	0	0	
FARGO	74	41	94	29	58	8	0	0	0	2.0	68	3.4	89	79	25	1	1	1	0	0	0	
GRAND FORKS	70	40	90	28	55	7	1	1	1	2.0	88	3.0	85	84	30	1	1	1	0	0	0	
WILLISTON	74	43	83	28	58	9	0	0	0	2.9	147	3.4	118	73	23	0	0	0	0	1	0	
OH AKRON-CANTON	60	38	79	34	49	-5	0	0	0	8.0	117	11.9	102	90	47	0	0	0	0	1	0	
CINCINNATI	65	44	83	38	54	-4	1	1	1	7.0	90	10.9	80	94	50	0	0	0	0	3	0	
CLEVELAND	61	40	80	34	50	-3	1	1	1	7.2	110	13.2	117	89	51	0	0	0	0	5	0	
COLUMBUS	65	41	80	34	53	-4	0	0	0	6.5	94	9.1	77	96	49	0	0	0	0	5	0	

Based on 1951-80 normals.

Weather Data for the Week Ending May 2, 1992

STATES AND STATIONS	TEMPERATURE °F							PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS					
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Mar 1	PCT. NORMAL SINCE Mar 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE	MAXIMUM	MINIMUM	90 AND ABOVE	32 AND BELOW	TEMP. °F		PRECIP.	
																			.01 INCH OR MORE	.50 INCH OR MORE		
DAYTON	63	43	82	35	53	4	.9	.1	.4	8.5	127	12.5	109	94	55	0	0	0	0	5	0	
TOLEDO	65	42	84	34	53	0	.3	-.4	.1	6.6	113	10.0	103	88	44	0	0	0	0	4	0	
YOUNGSTOWN	61	37	79	29	49	0	.6	-.2	.3	7.8	112	11.6	98	91	47	0	1	0	1	1	0	
OK OKLAHOMA CITY	75	53	84	46	64	0	.2	-.8	.2	4.7	88	7.1	93	88	42	0	0	0	0	1	0	
TULSA	73	53	84	41	63	-2	1.0	-.1	1.0	6.1	80	7.9	74	91	46	0	0	0	2	2	1	
OR ASTORIA	61	46	66	37	54	4	1.4	.5	.5	8.7	72	23.7	77	97	65	0	0	0	0	5	0	
BURNS	71	32	77	23	52	4	.0	-.2	.2	1.2	70	2.3	53	74	19	0	0	4	0	0	0	
MEDFORD	79	45	88	34	62	9	.3	-.1	.2	1.5	52	3.0	35	95	32	0	0	0	2	0	0	
PENDLETON	71	46	79	37	59	4	.2	.0	.2	1.5	71	2.9	59	81	35	0	0	0	2	0	0	
PORTLAND	70	50	78	40	60	7	1.1	.6	.5	5.7	95	14.1	88	96	48	0	0	0	4	4	1	
SALEM	71	47	76	34	59	7	.8	.3	.4	5.2	78	14.5	78	92	49	0	0	0	0	0	0	
PA ALLENTOWN	66	45	84	37	55	0	.1	-.8	.0	4.2	53	7.5	52	86	38	0	0	0	3	0	0	
ERIE	60	41	82	34	50	0	.6	-.2	.3	6.4	96	10.9	98	90	52	0	0	0	2	1	0	
HARRISBURG	65	47	87	40	56	-1	.3	-.5	.3	7.8	112	10.4	82	82	42	0	0	0	0	1	0	
PHILADELPHIA	68	47	84	41	58	0	.1	-.6	.1	4.5	60	6.7	49	86	40	0	0	0	2	3	0	
PITTSBURGH	62	41	81	33	52	-3	.6	-.1	.4	6.2	87	10.1	81	85	42	0	0	0	0	0	0	
SCRANTON	64	45	85	36	54	1	.5	-.2	.4	4.7	81	7.4	72	80	37	0	0	0	4	0	0	
RI PROVIDENCE	59	38	72	31	49	-4	.3	-.6	.2	6.6	79	13.5	83	91	42	0	1	3	3	0	0	
SC CHARLESTON	71	49	83	44	60	0	.1	-.6	.1	6.3	89	13.6	98	84	37	0	0	0	2	0	0	
COLUMBIA	72	45	89	38	58	-9	.1	-.7	.1	6.5	73	13.9	79	94	33	0	0	0	1	0	0	
FLORENCE	72	48	88	43	60	-8	.4	-.2	.3	4.8	66	10.2	72	85	35	0	0	0	2	0	0	
GREENVILLE	69	43	85	32	56	-9	.1	-.8	.1	10.2	97	18.9	97	84	37	0	1	1	0	0	0	
SD ABERDEEN	77	40	98	24	58	7	.0	-.5	.0	.9	30	2.1	49	78	21	1	2	0	0	0	0	
HURON	77	43	95	29	60	8	.0	-.5	.0	3.0	87	4.8	106	76	24	1	2	0	0	0	0	
RAPID CITY	76	42	92	28	59	9	T	-.5	T	2.6	84	3.1	74	68	25	1	2	0	0	0	0	
SIoux FALLS	76	41	92	24	59	6	T	-.6	T	4.4	106	6.9	123	82	25	1	2	0	0	0	0	
TN CHATTANOOGA	69	45	85	33	57	-7	.1	-.8	.1	7.0	63	15.9	75	95	41	0	0	0	2	0	0	
KNOXVILLE	68	46	82	33	57	-7	.1	-.7	.0	6.1	64	13.3	72	90	44	0	0	0	3	0	0	
MEMPHIS	72	51	84	39	62	-5	.0	-1.3	.0	8.5	73	12.5	61	85	41	0	0	0	0	0	0	
NASHVILLE	71	47	87	35	59	-5	T	-1.0	T	5.3	51	10.9	57	92	43	0	0	0	2	0	0	
TX ABILENE	84	59	90	53	72	3	T	-.7	T	2.9	77	8.3	146	83	35	1	0	1	0	0	0	
AMARILLO	83	51	95	43	67	6	T	-.4	T	2.7	131	3.5	113	78	25	1	0	0	0	0	0	
AUSTIN	82	60	85	55	71	-1	.0	-.9	.0	7.3	144	18.7	204	87	45	0	0	0	0	0	0	
BEAUMONT	78	61	81	55	70	-2	.9	-.2	.9	9.6	126	27.1	170	96	58	0	0	0	1	1	0	
BROWNSVILLE	83	65	87	57	74	-3	T	-.4	T	4.3	194	9.8	196	94	55	0	0	0	0	0	0	
CORPUS CHRISTI	83	64	90	58	74	-2	.0	-.6	.0	7.8	272	17.4	292	92	50	1	0	0	0	0	0	
DEL RIO	85	62	96	56	74	-1	.7	-.2	.7	4.6	171	10.3	252	78	39	1	0	1	1	1	1	
EL PASO	93	62	97	56	78	10	.1	.0	.1	.9	185	2.2	168	51	19	5	0	0	1	0	0	
FORT WORTH	79	58	84	50	68	-1	1.4	.3	1.1	5.7	84	11.4	109	83	49	0	0	0	2	1	1	
GALVESTON	76	66	80	62	71	-1	1.0	.3	1.0	7.8	155	24.6	236	84	61	0	0	0	1	1	1	
HOUSTON	82	60	86	56	71	-1	T	-1.0	T	10.1	149	23.8	175	89	44	0	0	0	0	0	0	
LUBBOCK	86	55	96	47	71	6	T	-.4	T	2.6	125	6.0	197	85	24	3	0	0	0	0	0	
MIDLAND	87	53	98	46	70	2	.0	-.3	.0	2.0	136	5.8	237	86	27	2	0	0	0	0	0	
SAN ANGELO	87	56	93	47	71	1	.0	-.5	.0	2.0	76	7.7	185	90	34	3	0	0	0	0	0	
SAN ANTONIO	84	60	90	54	72	-1	T	-.8	T	9.2	211	21.2	274	90	43	1	0	0	0	0	0	
VICTORIA	84	62	87	58	73	-1	.0	-.8	.0	9.0	211	23.1	275	91	42	0	0	0	0	0	0	
WACO	83	57	89	50	70	-1	.1	-1.0	.1	4.9	79	15.6	158	90	43	0	0	1	0	0	0	
WICHITA FALLS	83	55	90	47	69	1	.1	-.8	.0	2.3	45	5.2	74	89	41	1	0	2	0	0	0	
UT CEDAR CITY	78	46	83	38	62	10	.0	-.2	.0	2.3	109	3.8	106	54	15	0	0	0	0	0	0	
SALT LAKE CITY	78	50	86	41	64	11	.0	-.5	.0	2.1	51	4.1	61	64	20	0	0	0	0	0	0	
VT BURLINGTON	60	35	65	26	47	-2	.2	.0	.3	5.3	102	8.5	97	92	36	0	4	3	0	0	0	
VA NORFOLK	65	46	86	39	55	5	.3	-.4	.2	3.9	57	10.5	75	92	49	0	0	0	3	0	0	
RICHMOND	69	43	88	37	56	6	.3	-.5	.0	8.2	124	12.7	97	96	40	0	0	0	2	0	0	
ROANOKE	67	42	87	36	55	4	.1	-.7	.0	7.4	107	13.7	105	87	37	0	0	0	3	0	0	
WA QUILLAYUTE	59	45	65	38	52	4	5.7	4.4	2.2	15.8	81	46.9	101	99	67	0	0	0	5	3	3	
SEATTLE-TACOMA	65	50	70	43	58	6	1.1	.6	.6	5.8	97	16.8	102	92	52	0	0	0	5	1	1	
SPOKANE	67	43	76	30	55	5	.1	-.2	.1	1.1	44	5.0	76	79	35	0	1	3	0	0	0	
YAKIMA	72	43	81	30	58	5	.1	.0	.1	1.1	99	2.0	62	89	31	0	1	1	0	0	0	
WV BECKLEY	60	40	81	32	50	5	.5	-.3	.3	8.6	113	12.9	90	93	45	0	1	4	0	0	0	
CHARLESTON	65	43	86	34	54	4	.4	-.4	.2	8.0	103	12.6	88	94	50	0	0	4	4	0	0	
HUNTINGTON	66	44	84	32	55	5	.3	-.6	.2	6.8	88	10.8	77	91	46	0	1	4	0	0	0	
PARKERSBURG	64	41	83	31	53	6	.8	.0	.3	6.7	95	9.5	75	92	46	0	1	4	0	0	0	
WI GREEN BAY	62	40	88	31	51	1	.2	-.5	.1	5.5	115	6.8	96	85	44	0	2	3	0	0	0	
LACROSSE	70	44	93	31	57	3	T	-.8	T	8.0	155	9.7	139	77	32	1	1	0	0	0	0	
MADISON	65	43	83	30	54	2	.2	-.6	.1	5.1	93	7.2	95	89	41	0	2	3	0	0	0	
MILWAUKEE	60	41	88	32	50	1	.1	-.6	.1	5.0	82	7.7	84	84	45	0	1	2	0	0	0	
WAUSAU	64	37	85	28	51	1	.1	-.7	.1	4.9	98	6.2	89	86	37	0	3	3	0	0	0	
WY CASPER	77	38	84	29	58	10	.0	-.4	.0	1.4	51	1.9	51	64	13	0	2	0	0	0	0	
CHEYENNE	74	41	83	29	58	11	T	-.4	T	2.1	87	2.5	80	62	16	0	1	0	0	0	0	
LANDER	76	43	82	34	60	12	T	-.6	T	2.2	61	2.8	60	53	15	0	0	0	0	0	0	
SHERIDAN	75	41	86	31	58	10	T	-.5	T	2.4	73	2.6	54	70	23	0	2	0	0	0	0	

Based on 1951-80 normals.

April Weather and Crop Summary

Weather

April 1992 began and ended with heat in the West and a chill in the East. In between, weather quietude was shattered only by a classic spring storm. Monthly temperatures ranged from near-to below-normal in the East to much-above-normal in the West. Departures approached +10°F in the Southwest. Precipitation totals were boosted by the major storm, which traversed the Nation from April 16 to 21. Above-normal precipitation was recorded in parts of the Northwest, eastern Plains, Great Lakes, and middle Atlantic States. Nevertheless, several areas received little rainfall. Monthly rainfall was less than 50 percent of normal from central California to the west-central Plains, and in a strip from Arkansas to Kentucky. Other pockets of dryness encompassed portions of the northern Plains and the Northeast.

Aside from the major storm, only a handful of systems dampened the Nation. In the Northwest, beneficial moisture pushed ashore on five occasions, beginning on April 8, 11, 15, 26, and 28. The rainfall propelled Eugene, OR (7.81 inches), and Quillayute, WA (13.91 inches) to April rainfall records. Although the rain eased short-term water concerns, nine Western States (CA, CO, ID, MT, NV, OR, UT, WA, and WY) are still suffering from varying degrees of long-term drought. Farther east, warm, dry weather depleted topsoil moisture in the High Plains. Goodland, KS, recorded a mere 0.01 inch of rain for the month, and Casper, WY, had its driest April on record (0.08 inch).

Vigorous disturbances converged on the Plains from the southwest and the northwest after mid-month to form the month's most significant storm. Heavy rain and high winds lashed the Pacific Northwest, and thunderstorm outbreaks pounded the southern Plains. Scattered flash flooding affected Oklahoma and Texas. Farther north, rain changed to wet snow and accumulated heavily from Kansas City, MO, northward. Up to 14 inches of snow buried eastern Nebraska. In the Southeast, the storm provided the best soaking of the month. But in the middle Atlantic States' foothills, rainfall in excess of 4 inches caused streams and rivers to overflow.

More than 150 daily record lows were set in the East, most of which occurred during the first or last few days of the month. In contrast, about 200 daily record highs and 20 April record highs were established in the West. The early-month cold outbreak sent temperatures below freezing deep into the Southeast. Athens, GA, and Huntsville, AL, recorded 26°F on April 3. In the Northwest, widespread frost covered the interior on the 5th and the 23rd. Along the Canadian border, bitter cold briefly intruded around mid-month, sending temperatures to 4°F in Devil's Lake, ND, and -1°F in Marquette, MI. Cold air twice brushed the Midwest toward month's end before settling over the East. On both occasions, temperatures briefly dropped into the 20's as far west as Nebraska. But in the West, a late-month heatwave set all-time April records from Arizona to North Dakota. Valentine, NE, recorded its earliest ever 100°F reading, and temperatures soared into the 90's as far north as North Dakota.

Fieldwork

Mostly dry weather across much of the Nation allowed field preparation and spring planting to progress ahead of schedule during April. Much-needed rains visited the northern Great Plains and North Central States during the latter half of the month, which improved crop prospects but slowed field work. Soil moisture remained somewhat short in the Great Plains by the end of the month, however, and growers were becoming concerned about crop prospects.

In April, fall-seeded **small grains** were beginning to head in the Southeast, California, and Texas. Winter wheat was greening in the Central States, and heading progress advanced rapidly with above-normal temperatures during the middle of the month. Heading of winter wheat had advanced to 34 percent (%) of the acreage in the 19 major States by May 3, 2 percentage points behind last year's early heading crop, but 10 points ahead of the 5-year average. Winter wheat condition rated mostly good to fair nationwide, despite mostly fair to poor ratings in Illinois, Indiana, Missouri, and Ohio due to winterkill. Spring wheat seeding progressed ahead of schedule early in the month, before being halted by rains and snow later in the month. On May 3, spring wheat planting was 63% complete in the five major States, 6 points behind last year and 2 points behind the historic average. Barley planting was near completion in the Pacific Northwest, and was active in the Rocky Mountains. Planting of oats was active across the Nation during April.

Corn planting was in full swing in Georgia and Texas entering April, and beginning in Kansas, Missouri, and North Carolina. Planting gained momentum until late-month storms slowed activity, particularly in the Corn Belt. By May 3, 28% of the corn crop was planted in the 17 major producing States, compared with last year's progress of 29% and the historic average of 39%.

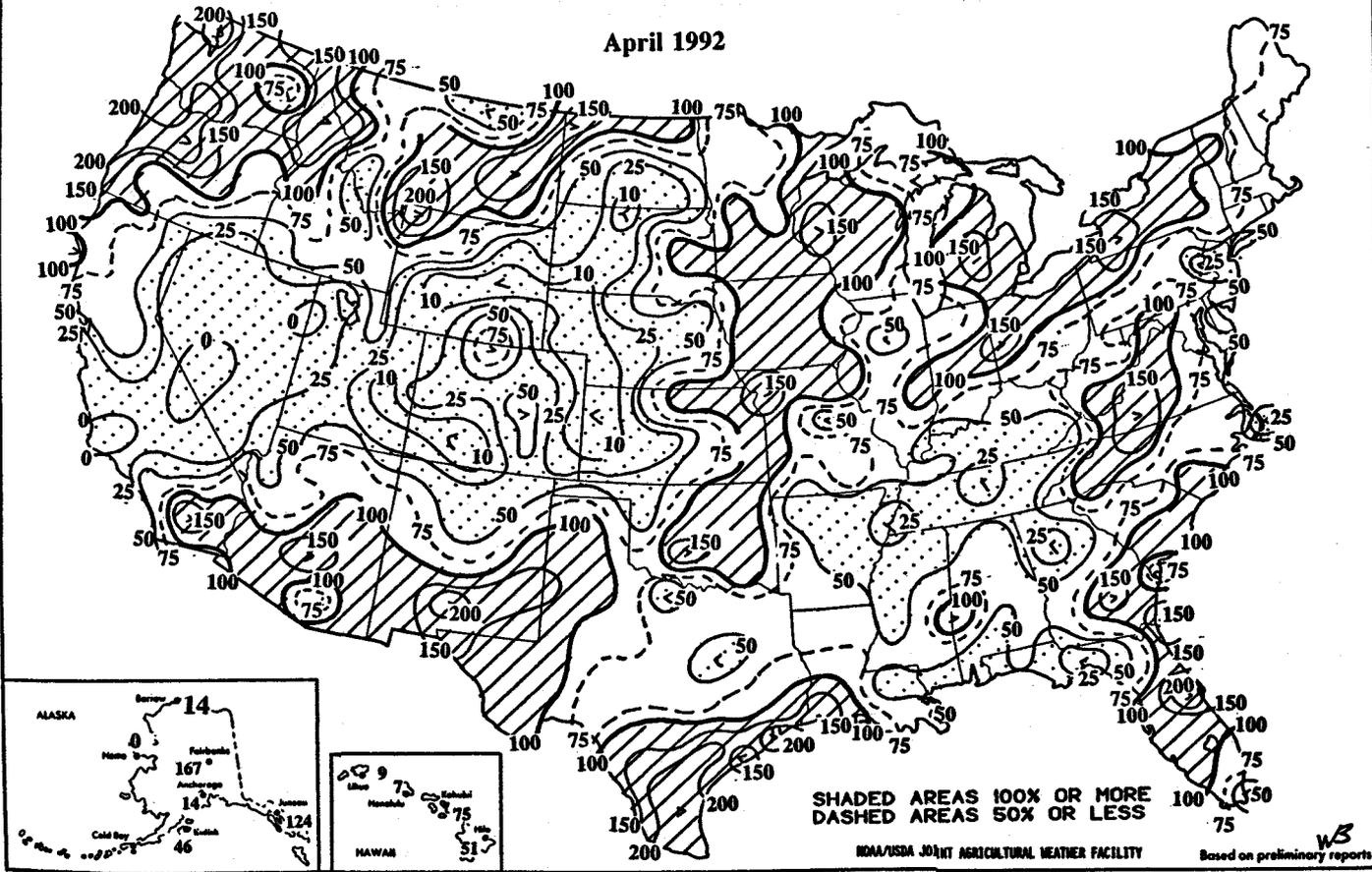
Rains were limiting progress of **cotton** planting in the Southwest and Texas early in April, but improved weather later in the month allowed planting to progress rapidly. Planting reached 38% complete in the 14 major producing States by May 3, 14 percentage points ahead of last year and 5 points ahead of the historic average. Planting was in the early stages in the Southeast, gaining momentum in the Delta and Texas, and well along in the West.

Relatively light rains in the Delta allowed **rice** planting to progress much faster than usual. By May 3, planting was 76% complete, 40 percentage points ahead of last year, and 24 points ahead of the historic average. Planting was gaining momentum in California and was well along in the Delta.

Grain sorghum planting got underway in April and outpaced both last year's progress and the historic average. Planting was 26% complete in the 12 major States on May 3, compared with 22% for last year and the average. Planting was over half complete in Texas and the Delta, and was beginning in several of the more Northern States.

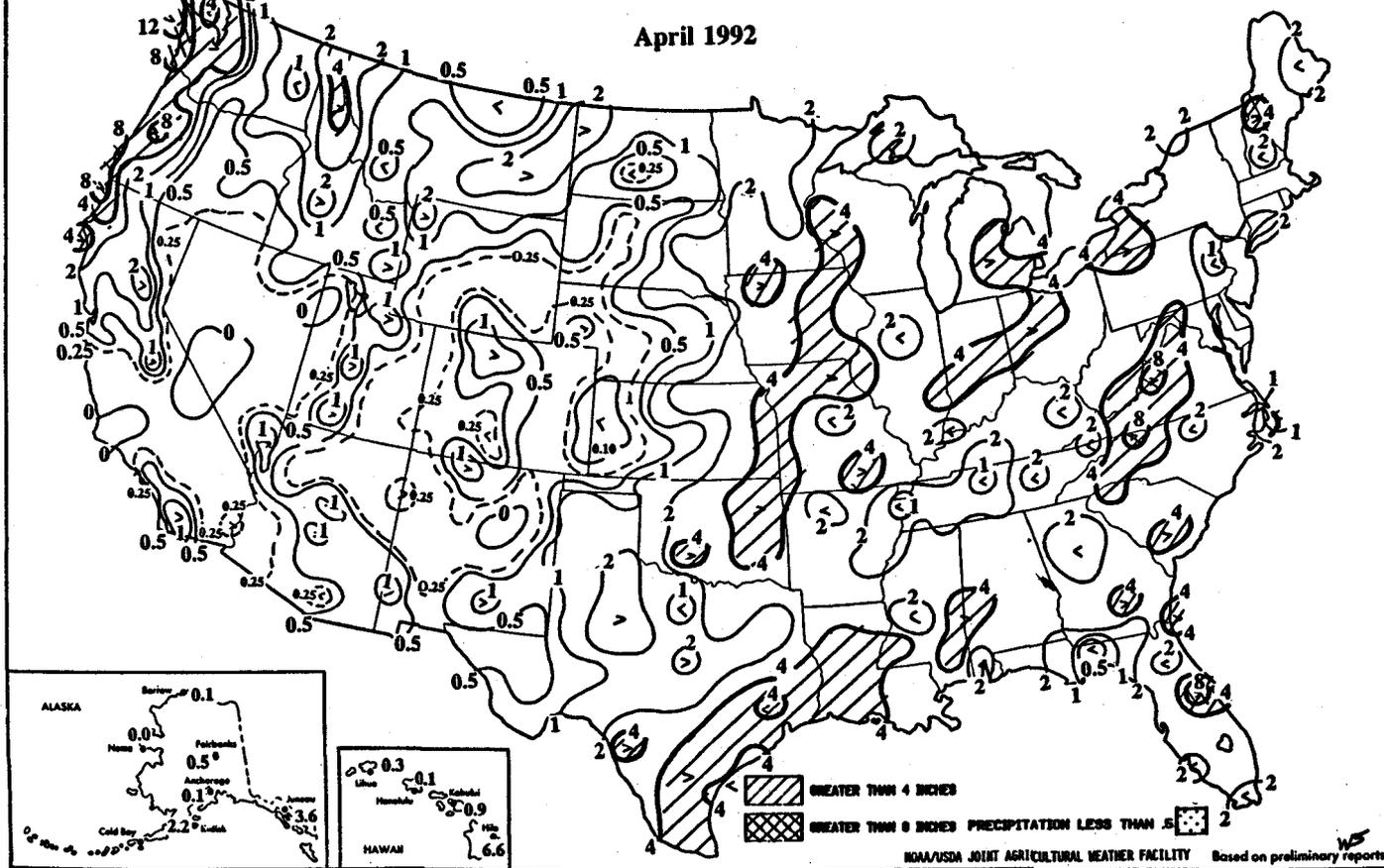
PERCENTAGE OF NORMAL PRECIPITATION

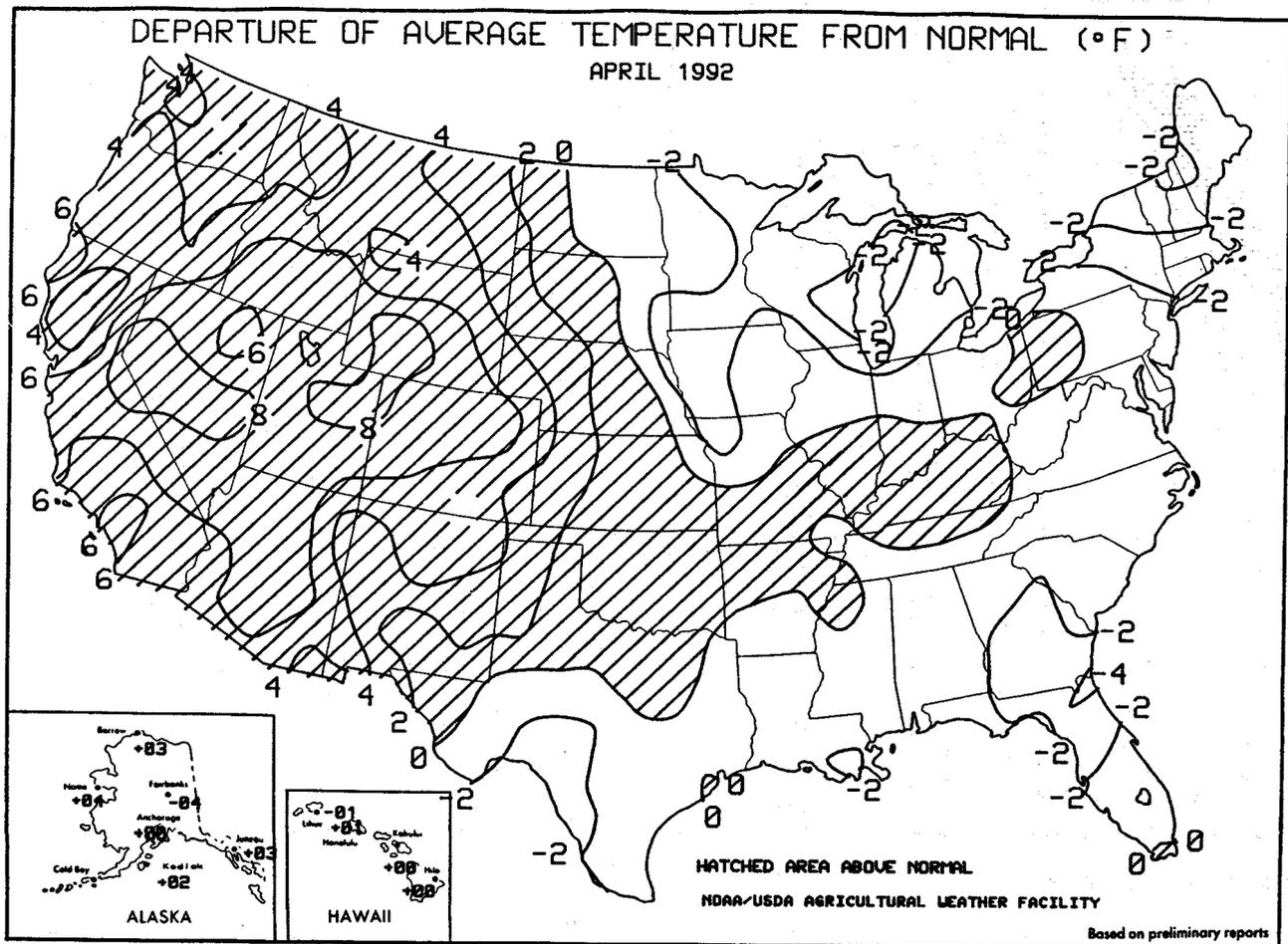
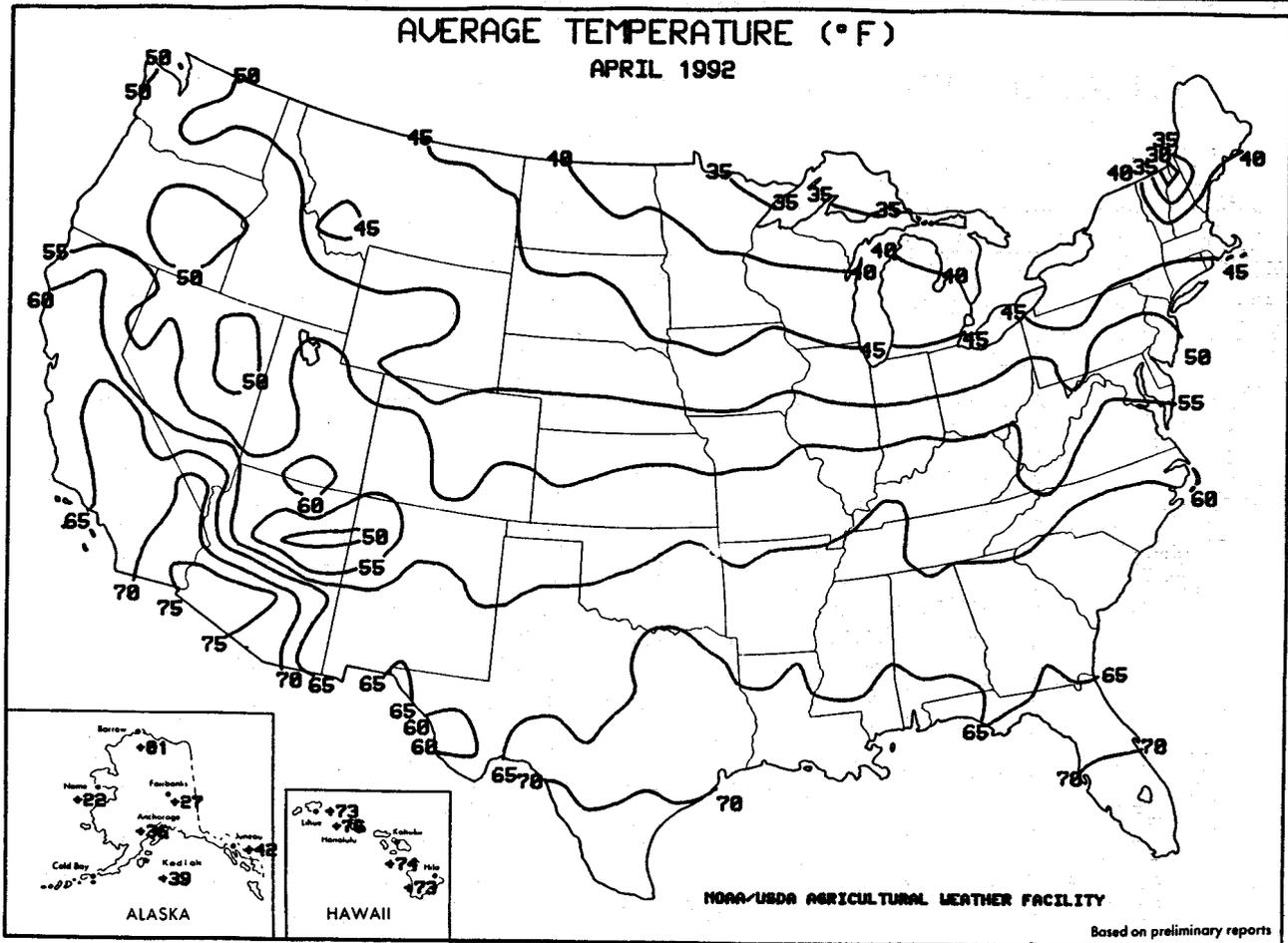
April 1992



TOTAL PRECIPITATION, INCHES

April 1992





TEMPERATURE AND PRECIPITATION SUMMARY

April 1992

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	61	-2	2.6	-2.4	LA ALEXANDRIA	66	-1	3.8	-1.8	TOLEDO	47	-1	3.4	0.4
AL HUNTSVILLE	60	-2	2.5	-2.4	LA BATON ROUGE	67	-1	2.3	-3.3	TOLEDO YOUNGSTOWN	48	0	3.9	0.5
AL MOBILE	65	-3	1.9	-3.4	LA LAKE CHARLES	68	-1	7.2	3.3	OK OKLAHOMA CITY	61	1	3.6	0.8
AL MONTGOMERY	63	-3	2.2	-2.2	LA NEW ORLEANS	66	-2	2.5	-2.0	OK TULSA	62	1	4.8	0.6
AK ANCHORAGE	35	0	0.1	-0.6	ME SHREVEPORT	65	-1	3.3	-1.4	OR ASTORIA	51	4	7.5	2.7
AK BARRROW	1	3	0.1	-0.1	ME CARIBOU	36	-1	2.6	0.0	OR BURNS	47	4	0.7	0.0
AK FAIRBANKS	26	-4	0.5	0.2	MD PORTLAND	41	-2	2.5	-1.4	OR MEDFORD	56	6	1.1	0.0
AK JUNEAU	42	2	3.6	0.7	MD BALTIMORE	52	-2	1.8	-1.6	OR PENDELTON	53	3	1.2	0.2
AK KODIAK	39	2	2.2	-1.4	MD SALLISBURY	53	-1	1.7	-1.5	OR PORTLAND	55	5	3.8	1.5
AK NOME	22	4	0.0	-0.6	MA BOSTON	46	-2	2.3	-1.4	OR SALEM	54	5	4.4	2.0
AZ FLAGSTAFF	49	7	0.8	-0.6	MA CHATHAM	42	-3	2.5	-1.4	PA ALLENTOWN	47	-1	0.9	-3.0
AZ PHOENIX	77	9	0.5	0.2	MI ALPENA	38	-2	2.6	0.0	PA ERIE	47	1	4.0	0.5
AZ PRESCOTT	58	6	0.4	-0.2	MI DETROIT	46	-1	4.3	1.2	PA HARRISBURG	52	0	2.6	-0.8
AZ TUCSON	71	6	0.2	-0.1	MI FLINT	44	-2	3.8	0.8	PA PHILADELPHIA	53	0	1.3	-2.2
AZ WINSLOW	57	4	0.3	0.0	MI GRAND RAPIDS	44	-3	4.0	0.4	PA PITTSBURGH	51	1	2.3	-1.0
AR FORT SMITH	62	1	3.9	-0.3	MI HOUGHTON LAKE	39	-2	3.1	0.6	PA SCRANTON	47	-1	1.7	-1.4
CA LITTLE ROCK	63	0	2.2	-3.1	MI LANSING	43	-2	4.6	1.8	PA WILLIAMSPORT	49	-1	2.1	-1.4
CA BAKERSFIELD	67	4	T	-0.7	MI MARQUETTE	35	-3	2.1	-1.5	RI PROVIDENCE	47	-2	2.3	-1.6
CA BISHOP	59	6	0.0	-0.3	MI MUSKEGON	43	-2	3.3	0.2	SC CHARLESTON	63	-1	2.8	0.2
CA EUREKA	56	7	2.4	-0.5	MI SAULT ST. MARIE	36	-3	2.5	0.1	SC COLUMBIA	62	-2	3.2	-0.4
CA FRESNO	67	7	0.2	-1.0	MN ALEXANDRIA	41	-1	2.3	0.1	SC FLORENCE	63	-1	2.6	-0.3
CA LOS ANGELES	66	6	0.2	-0.7	MN DULUTH	36	-2	2.9	0.7	SD GREENVILLE	59	-2	4.8	0.5
CA REDDING	62	1	1.9	-0.9	MN INT'L FALLS	36	-3	1.4	-0.2	SD ABERDEEN	44	0	4.4	-1.5
CA SACRAMENTO	62	4	0.9	-0.4	MN MINNEAPOLIS	44	-2	2.0	0.0	SD HURON	45	-1	2.1	0.1
CA SAN DIEGO	67	6	0.3	-0.5	MN ROCHESTER	42	-2	3.2	0.7	SD RAPID CITY	47	3	0.7	-1.2
CA SAN FRANCISCO	61	6	0.2	-1.3	MS ST. CLOUD	41	-2	1.8	-0.5	TN BRISTOL	56	0	1.5	-2.0
CA STOCKTON	--	-	0.7	-0.7	MS GREENWOOD	64	0	2.7	-2.8	TN CHATTANOOGA	59	-1	2.1	-2.5
CO ALAMOSA	47	6	T	-0.5	MS JACKSON	64	-1	1.5	-4.2	TN KNOXVILLE	59	-1	2.1	-1.7
CO CO. SPRINGS	52	6	0.9	-0.5	MS MERIDIAN	64	-1	5.5	0.1	TN MEMPHIS	63	0	1.4	-4.4
CO DENVER	55	8	0.5	-1.3	MO TUPELO	62	-1	2.4	-3.3	TX NASHVILLE	60	0	0.8	-3.7
CO GRAND JUNCTION	59	8	0.2	-0.5	MO CAPE GIRARDEAU	--	--	2.5	-2.0	TX ABILENE	65	0	2.0	-0.0
CO PUEBLO	55	3	0.4	-0.6	MO COLUMBIA	55	0	1.8	-2.1	TX AMARILLO	59	2	1.6	0.6
CT BRIDGEPORT	47	-2	1.9	-1.8	MO KANSAS CITY	53	-3	4.9	1.6	TX AUSTIN	68	-1	1.9	-1.2
CT HARTFORD	46	-2	3.1	-0.9	MO SAINT LOUIS	58	2	2.5	-1.1	TX BEAUMONT	68	-1	5.8	1.6
DC WASHINGTON	55	-1	2.6	-0.4	MO SPRINGFIELD	58	1	2.4	-1.6	TX BROWNSVILLE	73	-2	4.2	2.6
FL APALACHICOLA	67	-1	1.0	-2.3	MT BILLINGS	49	4	2.4	0.4	TX CORPUS CHRISTI	71	-2	3.7	1.9
FL DAYTONA BEACH	67	-2	2.8	0.6	MT GLASGOW	46	3	0.4	-0.3	TX DEL RIO	69	-3	1.3	-0.6
FL FT. MYERS	73	0	2.0	0.5	MT GREAT FALLS	47	4	1.3	-0.2	TX EL PASO	68	4	0.3	0.1
FL JACKSONVILLE	65	-4	5.3	2.3	MT HAVRE	47	4	0.4	-0.8	TX FORT WORTH	66	0	2.5	-1.6
FL KEY WEST	76	-2	1.4	-0.1	MT HELENA	48	5	0.6	-0.5	TX GALVESTON	69	0	5.6	2.9
FL MIAMI	74	-1	2.4	-0.8	MT KALISPELL	46	3	1.0	0.0	TX HOUSTON	69	0	3.7	0.0
FL ORLANDO	70	-2	9.1	6.8	MT MILES CITY	49	4	2.5	1.1	TX LAREDO	72	-4	4.5	3.3
FL TALLAHASSEE	64	-3	0.3	-3.8	MT MISSOULA	47	3	1.7	0.7	TX LUBBOCK	62	-2	1.3	0.2
FL TAMPA	69	-2	2.2	0.4	NE GRAND ISLAND	51	1	0.8	-1.9	TX MIDLAND	63	-1	1.0	0.2
FL WEST PALM BEACH	73	-2	2.6	-0.6	NE LINCOLN	52	0	1.9	-0.9	TX SAN ANGELO	65	-2	1.0	-0.7
GA ATHENS	61	-1	1.1	-2.9	NE NORFOLK	49	0	0.7	-1.5	TX SAN ANTONIO	69	-1	3.0	0.3
GA ATLANTA	62	0	1.0	-3.4	NE NORTH PLATTE	51	3	0.2	-1.6	TX VICTORIA	71	-1	7.8	5.2
GA AUGUSTA	61	-2	2.7	-0.6	NE OMAHA	49	-3	2.8	-0.1	TX WACO	67	0	1.3	-2.5
GA MACON	62	-4	2.0	-1.5	NE SCOTTSSBLUFF	50	4	0.3	-1.1	TX WICHITA FALLS	63	0	1.1	-1.9
GA SAVANNAH	65	-2	2.1	-1.1	NV VALENTINE	48	2	0.8	-1.0	UT ELANDING	--	--	0.1	-0.6
HI HILO	72	0	6.6	-6.5	NV ELKO	48	5	T	-0.8	UT CEDAR CITY	54	7	0.3	-0.7
HI HONOLULU	76	0	0.1	-1.4	NV ELY	49	8	0.1	-0.8	VT SALT LAKE CITY	57	8	1.0	-1.2
HI KAHULUI	74	0	0.9	-0.3	NV LAS VEGAS	71	7	T	-0.2	VT BURLINGTON	42	0	2.6	-0.2
HI LIHUE	73	-1	0.3	-3.0	NV RENO	56	10	0.1	-0.4	VA LYNCHBURG	56	0	4.3	1.4
ID BOISE	55	6	0.7	-0.5	NV WINNEMUCCA	52	7	0.1	-0.7	VA NORFOLK	58	0	1.3	-1.6
ID LEWISTON	54	4	1.8	0.6	NH CONCORD	42	-2	1.8	-1.2	VA RICHMOND	58	0	2.2	-0.7
ID POCATELLO	51	7	0.7	-0.4	NJ ATLANTIC CITY	49	-1	1.6	-1.6	VA ROANOKE	55	-1	4.9	1.8
IL CAIRO	--	-	2.4	-2.0	NM ALBUQUERQUE	60	5	0.2	-0.2	WA COLVILLE	47	1	2.0	0.9
IL CHICAGO	46	-2	2.2	-1.6	NM CLOVIS	59	2	1.1	0.3	WA QUILLYAYUTE	49	4	13.9	6.6
IL MOLINE	49	-1	2.9	-1.1	NY ROSWELL	63	3	0.6	0.2	WA SEATTLE-TACOMA	53	5	4.2	1.8
IL PEORIA	50	-1	1.6	-2.2	NY ALBANY	45	-2	2.8	-0.2	WA SPOKANE	49	3	0.6	-0.4
IL QUINCY	52	-1	5.5	1.7	NY BINGHAMTON	43	-1	3.5	0.4	WA WALLA WALLA	55	3	1.8	0.4
IL ROCKFORD	46	-2	3.6	-0.6	NY BUFFALO	44	-2	4.7	1.6	WA YAKIMA	51	2	1.0	0.5
IL SPRINGFIELD	52	-2	2.8	-1.1	NY NEW YORK	50	-2	1.5	-2.2	WV BECKLEY	52	0	4.1	0.6
IN EVANSVILLE	58	1	1.2	-2.9	NY ROCHESTER	44	-2	3.4	0.8	WV CHARLESTON	56	0	2.9	-0.6
IN FORT WAYNE	48	-2	3.5	-0.1	NY STRACUSE	44	-2	3.5	0.2	WV ELKINS	48	-1	2.6	-1.1
IN INDIANAPOLIS	52	-1	4.2	0.5	NC ASHEVILLE	56	0	4.0	0.5	WV HUNTINGTON	56	-1	2.8	-0.7
IN SOUTH BEND	46	-3	2.2	-1.8	NC CHARLOTTE	61	1	2.5	-0.7	WV PARKERSBURG	53	-1	2.1	-1.3
IA DES MOINES	49	-1	4.0	0.8	NC GREENSBORO	58	-1	5.8	2.7	WI GREEN BAY	42	-2	3.0	0.3
IA DUBUQUE	45	-2	3.8	-0.4	NC HATTERAS	59	0	0.7	-2.5	WI LACROSSE	46	-2	4.4	1.4
IA SIOUX CITY	47	-3	1.1	-1.2	NC NEW BERN	61	-1	2.0	-1.0	WI MADISON	44	-2	3.2	0.1
IA WATERLOO	46	-1	4.6	1.0	NC RALPHIGH	59	0	1.9	-1.0	WI MILWAUKEE	43	-2	2.4	-0.9
KS CONCORDIA	53	0	2.6	0.3	ND WILMINGTON	62	-2	3.1	0.1	WI WAUSAU	41	-2	2.8	0.0
KS DODGE CITY	56	2	0.2	-1.6	ND BISMARCK	42	0	0.2	-1.3	WI CASPER	49	7	0.1	-1.4
KS GOODLAND	53	4	T	-1.2	ND FARGO	41	-1	0.9	-1.0	WI CHEYENNE	49	7	0.3	-0.9
KS TOPEKA	55	0	3.2	0.2	ND GRAND FORKS	40	-1	1.2	-0.2	WI LANDER	51	9	0.2	-2.0
KS WICHITA	57	0	1.4	-1.0	ND WILLISTON	43	1	2.3	1.0	WI SHERIDAN	48	5	1.4	-0.6
KY BOWLING GREEN	58	0	1.2	-3.0	OH AKRON-CANTON	48	-1	3.7	0.5	PR SAN JUAN	81	2	2.1	-1.4
KY JACKSON	58	5	1.7	-2.3	OH CINCINNATI	54	0	2.7	-0.8					
KY LEXINGTON	56	1	2.1	-1.9	OH CLEVELAND	48	-1	3.8	0.5					
KY LOUISVILLE	58	1	2.7	-1.4	OH COLUMBUS	52	0	2.8	-0.6					
KY PADUCAH	59	1	2.1	-2.5	OH DAYTON	51	-1	5.4	2.0					
					OH MANSFIELD	48	-1	4.2	0.6					

Based on 1951-80 normals.

National Agricultural Summary

April 27 - May 3, 1992

HIGHLIGHTS: Dry weather across much of the Nation allowed spring planting to progress rapidly. High temperatures in the Western States promoted crop development, while cooler temperatures in the East slowed seed germination and crop growth.

SMALL GRAINS: Winter wheat condition for the 19 major producing States rated mostly good to fair, with continued improvement in the middle Mississippi and Ohio Valleys. Crop condition deteriorated, however, in the Rocky Mountains as soil moisture has diminished. Some winter wheat in the Great Lakes suffered severe winter freeze damage. Heading of winter wheat advanced to 34 percent (%) of the acreage in the 19 major States, 2 percentage points behind last year's early heading crop, but 10 points ahead of the 5-year average. Heading was nearly complete in California and Georgia, and continued to spread in the southern Great Plains. Spring wheat planting was in full swing with the drier weather and good progress was made. Planting was 63% complete in the five major States, 6 points behind last year and 2 points behind the historic average. Twenty-seven percent of the spring wheat crop had emerged, on par with 29% last year and 26% average. Spring barley planting was nearly complete in the Pacific Northwest, well along in the Rocky Mountains, and in full swing in the North Central States. Planting of oats was well along in the West and underway in the Great Lakes and Ohio Valley.

CORN: Planting progress was lagging in the Corn Belt due to earlier wet weather, but gained during the week. Corn acreage was 28% planted in the 17 major producing States, compared with last year's progress of 29% and the historic average of 39%. Planting began in the Northern States and was nearly complete in the Southeast.

COTTON: Cotton planting advanced sharply to 38% complete in the 14 major producing States, 14 points ahead of last year and 5 points ahead of the average. Planting was well along in the West and in full swing in the East.

GRAIN SORGHUM: Grain sorghum planting continued to outpace both last year's progress and the historic average, advancing to 26% complete in the 12 major States. This compares with 22% for last year and the average. Planting was over half complete in Texas and the Delta, and was beginning in several of the more northern States. Some fields in the Texas Blacklands may be replanted due to hail.

RICE: Rice planting continued to advance ahead of normal in each of the five major producing States. Nationwide, planting was 76% complete,

40 points ahead of last year, and 24 points ahead of the historic average. Planting gained momentum in California and was well along in the Delta.

OTHER FIELD CROPS: Alfalfa haying continued in the Southwest and the first cutting began in Washington. Spring potato harvest was underway in the Perris-Hemet area of California, while planting of summer potatoes continued. Seeding of fall potatoes continued in the Northwest and started in North Dakota, Michigan, and the Connecticut River Valley. Over-wintered sugar beet harvest progressed in California. Sugar beet planting was completed in Idaho, continued in the Rocky Mountains and Great Plains, and began in the Great Lakes. Dry pea and lentil seeding neared completion in Idaho and Washington. Sweetpotato planting was underway in the Delta. Sunflower and flaxseed planting began in North Dakota and Minnesota. Canola was emerging in Washington.

FRUIT AND NUTS: Arizona harvests of oranges, grapefruit, peaches, and tangerines continued. California's navel orange harvest was near completion, while the Desert region grapefruit harvest continued. Valencia orange harvest was past the peak and slowing in Florida, and grapefruit harvest was almost complete. Apple thinning was in progress in Washington, and cranberries were beginning to bloom about 5 weeks ahead of schedule.

VEGETABLES: Arizona harvests of peas, green beans, lettuce, and dry onions were active. Vegetable harvests continued very active in California, including artichokes, asparagus, onions, peas, and all cool-season crops. Strawberry harvest was peaking on California's central coast. Vegetable harvests were winding down in southern Florida and gaining momentum in the central part of the State. Onion harvest was in full swing in Georgia. Planting was very active in the Atlantic Coast States. Sweet corn and green pea planting was underway in Minnesota. Lettuce harvest started in New Mexico. Insect damage was minimal to Texas melon plants, with the Whitefly population being closely monitored.

PASTURES AND LIVESTOCK: Calving and lambing were decreasing and movement to spring and summer grazing increased. Fleas and ticks were becoming active as temperatures rose, and hornfly populations were increasing in Texas.

The "April Weather in Historical Perspective" feature and the "April Heating Degree Days" tabulation will appear in next week's issue.

Crop Progress

for the Week Ending May 3, 1992

COTTON
(Percent Planted)

	Current	Last Wk	1991	Avg.
AL	73	47	48	67
AZ	72	59	68	84
AR	26	9	4	25
CA	90	75	90	92
GA	35	17	20	34
LA	86	28	6	45
MS	53	24	8	46
MO	15	5	10	25
NM	74	48	73	81
NC	15	8	33	28
OK	2	0	3	8
SC	31	10	32	31
TN	32	5	6	30
TX	23	18	19	18
14 States	38	23	24	33

These 14 States produced 99% of the 1991 cotton crop.

CORN
(Percent Planted)

	Current	Last Wk	1991	Avg.
CO	37	11	15	28
GA	98	96	95	96
IL	33	15	57	56
IN	16	4	33	39
IA	22	3	13	38
KS	70	35	60	50
KY	60	40	45	42
MI	3	0	5	15
MN	21	1	10	30
MO	41	29	48	58
NE	38	9	25	36
NC	85	78	87	70
OH	6	4	28	44
PA	7	3	13	14
SD	13	0	5	11
TX	87	73	89	90
WI	5	0	6	12
17 States	28	11	29	39

These 17 States produced 94% of the 1991 corn crop.

GRAIN SORGHUM
(Percent Planted)

	Current	Last Wk	1991	Avg.
AR	71	65	23	43
CO	7	0	2	1
IL	3	1	4	3
KS	2	0	3	2
LA	61	37	51	52
MS	55	44	37	47
MO	17	10	6	12
NE	0	0	0	2
NM	5	2	10	NA
OK	7	5	9	6
SD	0	0	0	0
TX	66	62	60	59
12 States	25	22	22	NA
Excl. States with NA	26	22	22	22

NA - not available.

These 12 States produced 98% of the 1991 grain sorghum crop.

RICE
(Percent Planted)

	Current	Last Wk	1991	Avg.
AR	87	78	21	46
CA	15	2	15	8
LA	84	71	65	70
MS	78	59	14	54
TX	76	68	79	88
5 States	76	65	36	52

These 5 States produced 97% of the 1991 rice crop.

RICE
(Percent Emerged)

	Current	Last Wk	1991	Avg.
AR	47	NA	14	14
CA	0	NA	0	1
LA	70	NA	56	56
MS	43	NA	11	22
TX	43	NA	58	63
5 States	45	NA	26	28

These 5 States produced 97% of the 1991 rice crop.

WINTER WHEAT
(Percent Headed)

	Current	Last Wk	1991	Avg.
AR	75	50	85	81
CA	96	95	90	94
CO	0	0	0	0
GA	96	72	100	98
ID	0	0	0	0
IL	1	0	6	5
IN	1	0	9	3
KS	25	5	35	15
MI	0	0	0	0
MO	15	3	24	17
MT	0	0	0	0
NE	0	0	0	1
NC	75	50	81	60
OH	0	0	0	0
OK	93	78	85	56
OR	0	0	0	0
SD	0	0	0	0
TX	64	50	61	48
WA	0	0	0	0
19 States	35	24	37	25

These 19 States produced 92% of the 1991 winter wheat crop.

SPRING WHEAT
(Percent Planted)

	Current	Last Wk	1991	Avg.
ID	96	90	82	83
MN	47	23	83	78
MT	84	59	69	66
ND	49	22	57	54
SD	98	92	93	89
5 States	63	40	69	65

These 5 States produced 87% of the 1991 spring wheat crop.

SPRING WHEAT
(Percent Emerged)

	Current	Last Wk	1991	Avg.
ID	77	NA	51	53
MN	15	NA	72	42
MT	32	NA	7	20
ND	16	NA	17	13
SD	63	NA	53	56
5 States	27	NA	29	26

These 5 States produced 87% of the 1991 spring wheat crop.

(Continued to back cover)

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 mostly under 0.25 in. northeast; scattered trace amounts elsewhere. Temperatures 4 to 8° below normal. Highs mid to upper 80s most areas. Lows mid to upper 30s central; low 30s northeast; low 40s extreme south.

Days suitable for fieldwork 6.1. Soil moisture 32% short, 68% adequate. Cool temperatures delayed seed germination, emergence some areas. Acreage intended for spring planting 89% prepared, 77% 1991, 83% avg. Fieldwork progress 85% on schedule; 6% behind normal, 3 days avg.; 9% ahead of normal, 5 days avg. Corn 94% planted, 77% 1991, 88% avg.; 5% poor, 33% fair, 56% good, 6% excellent. Sorghum 23% planted, 20% 1991, 29% avg. Cotton 73% planted, 48% 1991, 67% avg.; 2% poor, 66% fair, 32% good. Peanuts 44% planted, 42% 1991, 41% avg. Soybeans 7% planted, 4% 1991, 7% avg. Winter wheat 86% headed, 95% 1991, 86% avg.; 26% turning color, 32% 1991, 31% avg.; conditions 32% fair, 68% good. Pastures 26% fair, 66% good, 8% excellent. Livestock 23% fair, 74% good, 3% excellent. Primary activities: Planting row crops, vegetables; preparing land; cultivating corn, cotton; applying lime, fertilizer, herbicides; harvesting hay; scouting wheat, potato fields; general care of livestock, poultry, catfish.

ARIZONA: Sunny, warm statewide, 26th thru May 2nd; thunderstorms southeast 26th, 27th; light showers east, southeast 1st, 2nd. Rainfall 0.07 in. southeast to 0.24 east. Temperature 7 to 15° above normal. Extremes 31°; 97° higher elevations, 48°; 106° deserts.

Cotton planted 72%, 68% 1991, 84% avg. Cotton good to excellent condition, weeds, insects light; Alfalfa condition good to excellent statewide, fair east; weeds, insects moderate statewide; harvest, moderate to active. Small grains heading, 97%, 97% 1991, 97% avg.; turning color, 54%, 50% 1991, 52% avg. Condition excellent. Oranges, grapefruit, peaches harvested, west, central. Peas, green beans harvested, west. Lettuce, red, chipper potatoes, dry onions, tangerines, mixed vegetables harvested, central. Pasture, range conditions 95% of normal. Cattle, calves mostly fair north, mostly good central, southeast. Stockwater, soil moisture, mostly adequate statewide. Range, feed supplies average north, above average central, average to above average southeast. Insect damage light.

ARKANSAS: Temperatures a little below normal, scattered showers, thunderstorms, southwest. Extremes 28°; 86°. Rainfall none to 2.61 in.

Days suitable for fieldwork 6. Soil moisture supplies 40% short, 55% adequate, 5% surplus. Main farming activities for week; planting, land preparation, flushing rice, pasture weed control, cutting hay, working cattle. Wheat fair to good. Army worms reported in southeast. Some hail damage reported in south central. Cotton emerged 9%, 0% 1991, 6% avg. Soybeans planted 6%, 0% 1991, 2% avg. Grain sorghum emerged 71%, 19% 1991, 22% avg. Sorghum conditions 43% fair, 57% good. Some reports of chinch bugs in east central. Corn planted 86%, 88% 1991, 86% avg. Corn conditions 20% fair, 80% good. Livestock good. Producers continue to spray for ticks, flies. Pastures good. Pasture growth thin in northwest, north central due to dry conditions. Hay, first cutting in southwest, west central.

CALIFORNIA: Strong high pressure pushed over State for significant warming, drying. Temperatures above normal.

Field activities progressed, open weather. Small grains matured rapidly; final irrigation some fields. Rice planting full swing. Ground preparation, treatments weeds, water weevils ongoing. Cotton planting active; good germination, emergence. Grasshopper damage evident, Fresno County. Small grains, forage mixes cut hay, green chopped. Corn, dry beans, new crop sugarbeets planted. Safflower good growth, planting still underway few areas. Over wintered sugarbeet harvest progressed. Alfalfa hay harvest normal. Some fields treated broadleaf weeds, cutworms. Grape growers irrigated, removed suckers, treated mildew. Some grape vines in bloom, others formed berries. Desert wine grapes, good bud set. Desert peaches harvested. Mowing, discing, fertilizing orchards. Northern region nut drop, late almond varieties. Codling moth spray walnuts, apples. Peaches, plums, nectarines thinned, sizing well. Navel orange harvest near completion, Tulare county harvest picked up speed. Desert grapefruit harvest continued; non-desert harvest expected next week. Kiwifruit full bloom. Persimmon, pomegranate, olive trees bloom. Tulare county, olive bloom heavy. Cherries picked. Avocado harvest continued, Riverside. New crop avocado bloom neared completion, Tulare County. Artichoke harvest continued central coast. Asparagus cutting active Firebaugh district Sacramento Valley, Delta Salinas Valley areas. Broccoli movement moderate Salinas-Watsonville fairly light Santa Maria, good quality. Cauliflower supplies fairly heavy Salinas-Watsonville fairly light Santa Maria variable quality. Celery harvest started Santa Maria very light supplies good quality. Packing continued south districts excellent quality. Iceberg lettuce harvest Kern-Tulare Westside areas completed. Volume fairly heavy variable quality Salinas-Watsonville, fairly heavy good quality Santa Maria. Leaf Romaine lettuce harvest moderate to fairly light variable quality Salinas-Watsonville. Onion digging started Westside area continued desert area. Freezer peas harvested Westside area. Fall potato movement Tulare-Butte Valley light. Spring potato harvest underway in Perris-Hemet, planting summer potatoes continued. Freezer spinach harvest on going some central valley areas. Strawberry harvest peaking central coast, south Eastside districts variable quality. Processing tomatoes thinned treated for insects mildew, fresh market transplantings still being staked tied. Planting continued for beans, melons, peppers sweet potatoes. Range and pasture conditions overall good. Some pockets fair to poor. High temperatures increased drying. Rangeland grass cut, bailing, green chop. Water supplies continued good. Movement, supplemental feeding light.

COLORADO: A stationary ridge of high pressure brought warm temperatures, dry weather to the State. Record high temperatures set a several locations during several days. No precipitation recorded during the week. Gusty winds second half of week raised rangeland fire danger. Temperatures 2 to 9° above average most locations, 6 to 11° above avg. in the South Platte River Basin.

Days suitable for fieldwork 6.7. Soil moisture 9% very short, 42% short, 49% adequate. Barley seeded 85%, 67% 1991, 81% avg.; emerged 41%. Oats seeded 78%, 68% 1991, 71% avg.; emerged 51%.

Spring wheat seeded 47%, 56% 1991, 55% avg.; emerged 13%. Dry onions planted 92%, 83% 1991, 79% avg. Sorghum planted 7%, 2% 1991, 1% avg. Corn planted 37%, 15% 1991, 28% avg. Sugarbeets planted 91%, 98% 1991, 95% avg. Winter wheat jointed 59%, 42% 1991, 37% avg. Winter wheat 3% very poor, 9% poor, 24% fair, 53% good, 11% excellent. The crop needs rain to prevent further declines in crop prospects. Cows calved and ewes lambed 88%, 91%, respectively. Livestock mostly good. Pasture, range feed good.

FLORIDA: Cool, dry week across State. Temperatures 6 to 10° below normal. Highs; mid 80s to near 90° common at weekend. Lows; mid, upper 30s northern areas first half of week, mostly 40s elsewhere, except 50s along mid, lower Atlantic coast. Most locations received no rain, with light showers at few locations.

Soil moisture short to adequate throughout State. In areas of Panhandle, cotton, peanut planting delayed by dry soil. Winter wheat turning. Farmers made preparations for planting soybeans. Corn, tobacco had light frost damage. Sugarbeets making good progress. Citrus groves, trees near excellent condition. Rain needed, irrigation continues. Trees adjusting to size crop they can hold for next season. Abundant new growth. Valencia harvest past peak, slowing. Grapefruit harvest almost complete. Caretakers cutting cover crops, finishing post bloom sprays, winding down hedging, topping programs. Dry, cool weather prevailed over major vegetable producing areas. Some leafburn, northern areas. Harvest winding down southern areas, gaining momentum central areas. Volume leaders: Tomatoes, potatoes, sweet corn, pepper, cucumbers, celery. Also available: Snap beans, cabbage, carrots, eggplant, escarole, lettuce, radishes, squash, watermelon. Initial harvest Zellwood sweet corn. States pastures fair to good. Pasture ratings, 5% poor, 45% fair, 50% good. Moisture levels short to adequate. State's cattle herds fair to good condition.

GEORGIA: Cool, dry week. Rain on 1 day or less, most of northern half under 0.10 in. Temperatures 4 to 8° below normal. Lows middle, upper 20s northeast mountains, low to middle 30s elsewhere north, upper 30s central, south. Highs low 80s northeast, middle 80s elsewhere north, upper 80s central, south, low 90s State border.

Days suitable for fieldwork 6.0. Soil moisture 3% very short, 38% short, 59% adequate. Corn 5% poor, 36% fair, 57% good, 2% excellent; Cool nights slowing development. Cotton 62% fair, 38% good. Sorghum 33% fair, 67% good; 27% planted, 28% 1991, 24% avg. Peanuts 2% poor, 45% fair, 53% good; 39% planted, 33% 1991, 46% avg. Soybeans 65% fair, 35% good; 2% planted, 2% 1991, 6% avg. Tobacco 6% poor, 49% fair, 44% good, 1% excellent. Few reports of TSWV in tobacco. Wheat 100% boot, 100% 1991, 100% avg. Other small grains 21% fair, 78% good, 1% excellent. Onions 7% fair, 93% good; 34% harvested, 51% 1991. Watermelons 1% very poor, 16% poor, 73% fair, 10% good; 94% planted, 94% 1991, 95% avg.; Cool temperatures, insects hurting the crop. Other vegetables 8% poor, 49% fair, 43% good. Apples 5% fair, 95% good; 98% blooming, 100% 1991, 100% avg. Freeze damage mountains, extent not determined. Peaches 2% very poor, 1% poor, 16% fair, 81% good; 2% harvested, 4% 1991, 7% avg.; Cool weather slowing development. Pasture 1% poor, 19% fair, 73% good, 7% excellent. Cattle, hogs good.

HAWAII: Mostly dry, sunny weather with some light, scattered shower activity occurred during the week. Continuing dry, drought like conditions adversely affecting agriculture. Current weather being blamed on "El Niño" weather pattern. Hawaii, Maui counties continued irrigation water restrictions some areas. Farmers forced to alter, restrict planting schedules,

field activities. Temperatures varied high 60s to mid 80s. Rainfall none to 2.00 in.

Days suitable for fieldwork 7.0. On Hawaii island, banana production continued at near normal levels but papaya supplies were low. Concern for next year's sugarcane crop if dry weather continues. Workers furloughed major sugar plantation direct result of weather due to reduced planting, field activities. Pastures, grazing areas critical condition many localities. Some cattle deaths reported due to starvation, supplemental feeding increased.

IDAHO: Statewide, temperatures 4 to 13° above normal. Precipitation mostly north with Sandpoint receiving most with 0.44 in.

Days suitable for fieldwork 6. Soil moisture 21% very short, 24% short, 52% adequate, 3% surplus. Spring barley planted 95%, 74% 1991, 80% avg.; emerged 75%, 42% 1991, 56% avg. Oats planted 79%, 48% 1991, 65% avg.; emerged 67%, 30% 1991, 37% avg. Sugarbeets planted 100%, 99% 1991, 98% avg.; emerged 79%, 47% 1991, 63% avg. Potatoes planted 55%, 32% 1991, 40% avg. Lentils planted 87%, 41% 1991, 61% avg. Dry peas planted 89%, 44% 1991, 68% avg.; emerged 53%, 4% 1991, 39% avg. Field corn planted 38%, 18% 1991, 24% avg. Irrigation water supplies 15% very poor, 32% poor, 21% fair, 32% good. Activities: Insect spraying, weed control, irrigation, fertilizing, planting, fencing, branding, vaccination. Pasture, range 75% of normal. Hay, roughage supplies mostly adequate. Calving 98% complete. Lambing 99% complete. Livestock reported in good condition.

ILLINOIS: State experienced an early-week cold front and drier than normal weather throughout the week. Temperatures mid 40s to mid 70s across the State. Precipitation across State below 0.25 to 0.90 in. Four-inch soil temperature mid 50s to lower 60s.

Winter wheat 2% excellent, 36% good, 31% fair, 15% poor, 16% very poor. Alfalfa 3% excellent, 50% good, 42% fair, 5% poor. Condition of oats was 5% excellent, 76% good, 17% fair, 2% poor. Soil moisture was mostly adequate.

INDIANA: Temperatures 1 to 3° below normal. Highs low to mid 80s. Lows, upper 20s to mid 30s. Precipitation 0.10 to 0.50 in.

Days suitable for fieldwork 3.1. Topsoil 3% short, 72% adequate, 25% surplus. Subsoil 12% short, 73% adequate, 15% surplus. Spring cropland 84% tilled, 83% 1991, 87% avg. Wheat 11 in. high, 13 in. 1991, 15 in. avg. Wheat 53% jointed, 64% 1991, 61% avg. Oats 79% seeded, 80% 1991, 86% avg. Clover 81% seeded, 90% 1991, 91% avg. Hay and roughage 14% very short, 43% short, 41% adequate and 2% surplus. Pasture 4% poor, 45% fair, 48% good, 3% excellent. Large amount of field activity south, very little northeast.

IOWA: Temperatures 5 to 7° above normal. Extremes 27°; 92°. Precipitation none to 0.28 in.; average 0.01 in., weekly normal 0.82 in.

Days suitable for fieldwork 3.3. Topsoil 1% short, 87% adequate, 12% surplus. Subsoil 74% adequate, 26% surplus. Winter wheat 8% very poor, 22% poor, 34% fair, 31% good, 5% excellent. Hay 4% very poor, 15% poor, 42% fair, 33% good, 6% excellent. Oats 5% poor, 37% fair, 53% good, 5% excellent. Pasture condition 89% of normal. Oats 95% sown, 87% 1991, 97% avg. Oats 70% emerged, 69% 1991, 73% avg. Corn 22% planted, 13% 1991, 38% avg. Seedbed preparation 76% completed, 71% 1991, 87% avg. Fertilizer application 82% completed, 73% 1991, 87% avg. Livestock are in good to excellent condition.

KANSAS: Temperatures normal to 7° above normal. Little to no precipitation over the State, 0.03 to 0.05 in. west, none to 0.26 in. central, none to 0.52 in. east.

Days suitable for fieldwork 5.0. Surface moisture 51% short, 44% adequate, 5% surplus.

Subsurface moisture 43% short, 56% adequate, 1% surplus. Warm temperatures, southerly winds drying fields. Wheat headed much increased in southern areas. Corn planting progressed rapidly due to open weather last week. Corn stands emerging. Sorghum, soybean planting just beginning. Most cattle gone to pasture. Rangeland providing adequate forage except in southwest, central, south central where soil moisture is lacking.

KENTUCKY: Temperatures began well below normal. Overnight lows fell to mid to upper 20s, afternoon highs 50s. Temperatures warmed to 80s 1st, averaged 1 to 5° below normal. Rainfall early, again 2nd generally 0.25 to 0.75 in.

Days suitable for fieldwork 5.1. Soil moisture 4% very short, 38% short, 57% adequate, 1% surplus. Thunderstorm 2nd helped some dry areas. Tobacco transplanting beginning, expected active this week. Plants in beds 15% greater than 4", 30% 2"-4", 55% under 2". Greenhouse, other float plants generally earlier. Tobacco plants in beds condition fair to mostly good. Corn planting nearly finished some western counties, only beginning in northeastern counties. Wheat condition 1% poor, 34% fair, 53% good, 12% excellent. Hay prospects fair, many alfalfa fields damaged cold, weevils, weeds. Pastures fair to good, moisture needed some areas.

LOUISIANA: Temperatures 4.2 to 7.2° below normal. Extremes 38°; 86°. Rainfall 0.06 in. southeast to 2.00 in. northwest.

Days suitable for fieldwork 4.7. Soil moisture 9% short, 70% adequate, 21% surplus. Corn 35% fair, 65% good; 99% emerged, 94% 1991, 88% avg. Fertilizing, cultivating, active. Cotton 49% emerged, 3% 1991, 23% avg. Rice 5% poor, 43% fair, 52% good. Fertilizing, spraying, active, southwest. Hay 9% first cutting, 3% 1991, 10% avg. Spring plowing 90% complete, 73% 1991, 85% avg. Sorghum 48% emerged, 45% 1991, 38% avg. Sugarcane 1% fair, 99% good. Spraying herbicides, fertilizing, winding down. Sweet potatoes 4% planted, 8% 1991, 10% avg. Wheat 3% poor, 47% fair, 50% good; 98% headed, 89% 1991, 96% avg.; 25% turning color, 49% 1991, 38% avg. Armyworms a problem, northeast. Livestock 22% fair, 71% good, 7% excellent. Pasture 1% very poor, 2% poor, 4% fair, 93% good. Fertilizing, spraying active. Vegetables 24% fair, 74% good, 2% excellent. Strawberry, crawfish harvesting continued.

MARYLAND & DELAWARE: **MARYLAND:** Precipitation 0.50 in. Temperature 54.7°, normal 58.9°. Extremes 25°; 86°.

Days suitable for fieldwork 5.2. Topsoil 18% short, 77% adequate, 5% surplus. Subsoil 20% short, 70% adequate, 10% surplus. Corn 34% planted, 32% 1991, 27% avg. Sweet corn 28% planted, 36% 1991, 25% avg. Potatoes 97% planted, 77% 1991, 87% avg. Green peas 78% planted, 81% 1991, 96% avg. Spring oats 85% planted, 82% 1991, 87% avg. Field preparation 69%, 70% 1991, 70% avg. Small grains mostly good condition, barley 59% headed, rye 43%, wheat & oats beginning to head. Pastures in mostly good condition, improved. Hay short supply. Apples 66%, strawberries 55% blooming. Activities for the week: Very active planting; corn, melons, cucumbers, snap beans. Scouting small grains, alfalfa for insects, disease; tagging, vaccinating, docking livestock.

DELAWARE: Precipitation 0.25 in. Temperature 52.2°, normal 59.0°. Extremes 32°; 76°.

Days suitable for fieldwork 6.4. Topsoil 14% very short, 57% short, 29% adequate. Subsoil 14% very short, 57% short, 29% adequate. Corn 64% planted, 30% 1991, 36% avg. Sweet corn 40% planted, 28% 1991, 36% avg. Potatoes 97% planted. Green peas 93% planted, 76% 1991, 77% avg. Field preparation 90%, 64% 1991, 66% avg. Small grains good condition, barley 53% headed, 82% 1991, 57%

avg.; rye 42% headed, 90% 1991, 50% avg. Pastures mostly excellent condition. Hay demand declining. Apples 78%, strawberries 50% blooming. Activities for the week: waiting for soil temperatures to improve, beginning to plant melons, snap beans; preparing to apply N to small grain; marketing, veterinary chores on young livestock.

MICHIGAN: Temperatures 2° below to 2° above normal. Extremes 22°; 87°. Precipitation none to 0.95 in. across the State.

Days suitable for fieldwork 2. Soil moisture 25% adequate, 75% surplus. Corn 3% planted, 5% 1991, 15% avg. Oats 25% planted, 45% 1991, 70% avg. Potatoes 10% planted, 15% 1991, 15% avg. Sugarbeets 5% planted, 10% 1991, 70% avg. Soybeans 0% planted, 3% 1991, 5% avg. Winter wheat 0% headed, 0% 1991, 0% avg.; 5% very poor, 10% poor, 30% fair, 40% good, 15% excellent. Pasture condition 75% of normal. Major activities: Spreading fertilizer; hauling manure; preparing fields for planting; getting equipment ready; waiting to start spring planting.

MINNESOTA: Temperatures 1 to 7° above normal. Extremes 26°; 94°. Precipitation 0.33 to 0.70 in. below normal.

Days suitable for fieldwork 3.7. Topsoil 1% very short, 3% short, 76% adequate, 20% surplus. Subsoil 2% very short, 11% short, 67% adequate, 20% surplus. Spring wheat 47% planted, 83% 1991, 78% avg.; 15% emerged, 72% 1991, 42% avg. Oats 61% seeded, 67% 1991, 79% avg.; 22% emerged, 32% 1991, 44% avg. Barley 40% seeded, 70% 1991, 68% avg.; 10% emerged, 21% 1991, 18% avg. Corn 41% ground prepared, 41% 1991, 59% avg.; 21% planted 10% 1991 30% avg. Soybean 15% ground prepared, 8% 1991, 24% avg.; 6% planted, 1% 1991, 6% avg. Sunflower 1% planted, 6% 1991, 5% avg. Sugarbeets 18% planted, 45% 1991, 69% avg. Potatoes 15% planted, 13% 1991, 21% avg. Flaxseed 1% planted, 11% 1991, 8% avg. Dry Beans 7% planted, 3% 1991, 4% avg. Sweet Corn 13% planted, 2% 1991, 12% avg. Green Peas 48% planted, 34% 1991, 50% avg.

MISSISSIPPI: Temperature 60°, 7.7° below normal. Extremes 31°; 88°. No rain across most of the State, average 0.02 in., 1.23 below normal. Soil temperature 68°.

Days suitable for fieldwork 6.0, 0.7 1991, 4.4 avg. Soil moisture 27% short, 73% adequate. Corn 92% planted, 61% 1991, 76% avg.; 84% emerged, 59% 1991, 64% avg.; 52% fair, 47% good, 1% excellent. Cotton 53% planted, 8% 1991, 46% avg.; 31% emerged, 5% 1991, 21% 5 year avg. Peanuts 25% planted, 19% 1991, 27% avg. Rice 78% planted, 14% 1991, 54% avg.; 43% emerged, 11% 1991, 22% avg.; 27% poor, 36% fair, 37% good. Sorghum 55% planted, 37% 1991, 47% avg.; 37% emerged, 31% 1991, 32% avg. Soybeans 2% planted, 1% 1991, 5% avg. Sweet potatoes 13% planted, 17% 1991, 24% avg. Water-melons 75% planted, 78% 1991, 73% avg. Wheat 94% heading, 93% 1991, 88% avg.; 2% mature, 8% 1991, 7% avg.; 30% fair, 67% good, 3% excellent. Peaches 20% very poor, 40% poor, 18% fair, 22% good. Livestock 13% fair, 84% good, 3% excellent. Pasture 92% of normal. Activities: Planting row crops, applying chemicals.

MISSOURI: Temperatures near normal except extreme south 5 to 8° below normal. Virtually no precipitation.

Days suitable for fieldwork 3.8. Topsoil 8% short, 82% adequate, 10% surplus. Driest areas southwest, south central, wettest areas northwest, west central. Ground worked at least once for spring crops 78%, 84% 1991, 84% avg. Corn planting ranges less than 25% northwest, north central, to 96% southeast. Sorghum planting ranges 1% northern districts to 34% southeast. Soybean planting just getting started all districts. Wheat headed varies from none northern districts to 62% southeast. Pasture 12% poor, 49% fair, 38% good, 1% excellent.

MONTANA: Temperatures 7 to 11° above normal. Scattered showers, only two stations more than 0.10 in.

Days suitable for fieldwork 6.0. Topsoil 33% short, 63% adequate, 4% surplus. Subsoil 41% short, 57% adequate, 2% surplus. Barley 81% planted, 57% 1991, 63% avg. Barley 39% emerged, 7% 1991, 19% avg. Oats 71% planted, 46% 1991, 54% avg. Sugarbeets 77% planted, 64% 1991, 79% avg. Corn 53% planted, 31% 1991, 40% avg. Potatoes 41% planted, 1% 1991, 8% avg. Pasture, range feed conditions 86%. Cattle, calves moved to summer ranges 12%, sheep, lambs 9% moved.

NEBRASKA: Temperatures 6 to 10° above normal. Only scattered precipitation, a trace to 0.10 in. throughout the week.

Days suitable for fieldwork 5.8. Topsoil 34% short, 63% adequate, 3% surplus. Subsoil 19% short, 79% adequate, 2% surplus. Wheat 5% very poor, 15% poor, 49% fair, 26% good, 5% excellent; wheat jointed 67%, 34% 1991, 48% avg. Corn 38% planted, 25% 1991, 36% avg. Alfalfa 1% poor, 38% fair, 54% good, 7% excellent. Pasture, range 88% of normal.

NEVADA: High pressure dominated followed by weak low pressure system late in week. Precipitation generally light, limited to northeastern third of State. Record high temperatures scattered across State. Extremes 17°; 99°.

Progress most crops about 10 days ahead of normal. Potato planting to start this week. Condition onions, garlic good to excellent. Surface irrigation water very short to none. Calving lambing, shearing nearly completed. Livestock movement to summer ranges continues. Ranges generally poor condition.

NEW ENGLAND: Precipitation 0.10 to 0.85 in. Maine, none to 1.65 in. New Hampshire, Vermont, Massachusetts, 0.10 to 1.15 in. Connecticut, Rhode Island. Temperatures low to high 40s north, high 40s to mid 50s south, 0 to 6° below normal. Maximum temperatures low 60s north to low 80s south; minimum temperatures low 20s north to high 30s south.

Days suitable for fieldwork 5.7. Soil moisture 4% very short, 11% short, 50% adequate, 35% surplus. Available grazing 30% very short, 48% short, 19% adequate, 3% surplus. Fieldwork progress 4 days behind. Maine potatoes 0% planted, 4% 1991, 4% avg. Connecticut River Valley potatoes 13% planted, 21% 1991, 22% avg.; good. Maine oats 0% planted, 6% 1991, 3% avg. Field corn 2% planted, 13% 1991, 3% avg.; good. Sweet corn 6% planted, 10% 1991, 7% avg.; good. Hay good in south, fields dormant in north. Apple, pears bud stage, peaches bud to early bloom. Blueberries, strawberries bud stage. Cranberries delayed dormant stage. Major farm activities: Plowing, spreading manure, fertilizing, field preparation.

NEW JERSEY: Temperatures below normal. Extremes 25°; 88°. Rainfall 0.11 in. north, 0.08 in. central; 0.10 in. south. Heaviest 24 hour total 0.24 in. on 27th, 28th. Estimated soil moisture, in percent field capacity, averaged 93% north, 79% central, 80% south. Four-inch soil temperatures averaged 53° north, south, 53° central.

Field preparation, planting continued very active. Soil moisture content good. Frost two days; little damage reported. Light harvest of asparagus, leafy greens, broccoli rabe, dill. Spinach volume good; leek, parsley supply moderate. Planting of sweet corn, cabbage, endive, escarole continued. Planting of squash, cucumbers, melons, pickles began under tunnels. Tomato, pepper transplanting continued. Peaches is petal fall stage. Apple bloom began. Light bloom on blueberries, strawberries. Wintered-over rye, wheat, pastures greened; made much growth.

NEW MEXICO: Record breaking high temperatures during midweek helped keep the State warmer than normal. Temperatures mostly 6 to 10° above normal with a few areas in the north, southeast 2 to 5° above normal. Precipitation was spotty over the mountain ridges, in the southern desert.

Days suitable for fieldwork 6.8. Soil moisture 37% short, 63% adequate. Crop conditions: Alfalfa, 8% poor, 12% fair, 80% good, with the first cutting in full swing. Cotton 20% fair, 80% good. Corn 20% fair, 80% good, with 60% planted. Irrigated wheat, 20% fair, 80% good with 87% heading. Dry-land wheat 38% poor, 13% fair, 49% good with 81% heading. Chile 14% fair, 86% good. Onions, lettuce both in good shape with lettuce harvest started. Cattle, sheep fair to good. Range, pasture 90% of normal.

NEW YORK: Cool week. Frost experienced most areas on 26th, again in eastern areas on 27th. High in 50s to 60s, lows in 30s to 40s until 2nd when surge of warm air pushed highs into the 80s. Extremes 22°; 82°. Heaviest, most widespread precipitation fell on the 2nd in heavy showers, thunderstorms. Up to 2.00 in. were common in upstate regions. Only the extreme southeast area missed out on the heavy rains.

Days suitable for fieldwork 4.3. Soil moisture mostly adequate to surplus. Pasture condition 85% of normal. Hay in fair to good condition, wheat mostly good. Corn 6% planted, 3% 1991, 5% avg. Oats 21% seeded, 44% 1991, 42% avg. Wet conditions continued to slow fieldwork. Plowing fertilizing, liming active as conditions permitted. Early disease, insect sprays applied to fruit. Apples progressed to green tip or early tight cluster stage of development in the Lake Ontario region. In the Hudson Valley, apples were at tight cluster. Sweet cherries at white bud stage. Peach, pear, sweet cherry bloom expected soon. Vegetable planting gained momentum as weather permitted. Orange County onions 95% planted, sweet corn 20%, lettuce 40%.

NORTH CAROLINA: Weekly temperatures below normal; above last of week. Extremes 25°; 87°. Precipitation none to 0.74.

Days suitable for fieldwork 4.9. Soil moisture 6% short, 92% adequate, 2% surplus. Crop condition: Wheat 8% fair, 91% good, 1% excellent. Oats 7% fair, 93% good. Barley 11% fair, 89% good. Rye 9% fair, 89% good, 2% excellent. Pasture 2% poor, 16% fair, 77% good, 5% excellent. Tobacco 2% poor, 19% fair, 77% good, 2% excellent. Tobacco plant beds 14% fair, 81% good, 5% excellent. Corn 24% fair, 73% good, 3% excellent. Hay 2% poor, 31% fair, 67% good. Irish potatoes 28% fair, 67% good, 5% excellent. Peaches 33% very poor, 22% poor, 34% fair, 11% good; Truck crops 27% fair, 70% good, 3% excellent. Corn planted 85%, 87% 1991, 70% avg. Cotton planted 15%, 33% 1991, 28% avg. Peanuts planted 7%, 13% 1991, 12% avg. Sorghum planted 22%, 25% 1991, 17% avg. Soybeans planted 5%, 8% 1991, 6% avg. Flue cured tobacco transplanted 56%, 59% 1991, 42% avg. Wheat headed 75%, 81% 1991, 60% avg. Tobacco plant bed supplies 86% adequate, 14% surplus. Hay, roughage supplies 94% adequate, 6% surplus. Livestock feed from pastures 70%. Major activities: Land preparation; planting corn, cotton, sorghum, soybeans, peanuts, truck crops; transplanting flue cured tobacco. Other activities: Tending tobacco beds; topdressing, spraying small grains; fertilizing pastures; harvesting hay; tending livestock; transplanting Christmas trees; general farm maintenance.

NORTH DAKOTA: State was warm, windy, dry. Temperatures 6 to 9° above normal. Extremes 19°; 99° both south central. Precipitation none to 0.03 in.

Days suitable for fieldwork 6.4. Topsoil 7% very short, 40% short, 52% adequate, 1% surplus. Subsoil 12% very short, 34% short, 54% adequate. Weather conditions allowed significant planting progress. Hard red spring wheat 49% planted, 16% emerged and beyond; 57%, 17% 1991; 54%, 13% avg.

Durum wheat 18% planted, 3% emerged and beyond; 33%, 6% 1991; 32%, 5% avg. Oats 54% planted, 19% emerged and beyond; 44%, 9% 1991; 47%, 11% avg. Barley 38% planted, 12% emerged and beyond; 61%, 17% 1991, 53%, 13% avg. Winter wheat 97% emerged thru stool, 3% jointing and beyond; 2% poor, 45% fair, 53% good. Sugarbeets 45% planted, 46% 1991, 69% avg.; corn 10%, 6% 1991, 9% avg.; flax 2%, 4% 1991, 5% avg.; potatoes 2%, 3% 1991, 6% avg.; soybeans 1%, none 1991, 1% avg. Weather was favorable for young livestock. Calving 94% complete, lambing 93%, shearing 97%. Range, pasture conditions 82% of normal; furnished 27% roughage requirements. Stockwater supplies 1% very short, 25% short, 73% adequate, 1% surplus.

OHIO: Drier, cooler than normal weather occurred across State. A surge of cold air from Canada brought frost or freeze conditions to the State on 28th to 29th mornings with readings down to the upper 20s to mid 30s. Highs low to mid 60s north to near 70° south which was 1 to 4° below normal. Lows the upper 30s in the north to mid 40s south. Rainfall about 0.25 to 0.60 in, which is 0.15 to 0.70 in. below normal. Soil temperatures at the 4-inch depth under bare ground averaged in the low and mid 50s.

Days suitable for fieldwork 1.8. Grounds remained wet from last week's precipitation. Soil moisture 4% short, 63% adequate and 33% surplus. Oats sown 74%, 88% 1991, 88% avg. Oats emerged 57%, 64% 1991, 62% avg. Pasture 1% very poor, 6% poor, 32% fair, 52% good, 9% excellent. Hay 1% very poor, 5% poor, 34% fair, 52% good, 8% excellent.

OKLAHOMA: Temperatures 1° below normal southeast to 7° above normal Panhandle. Precipitation none west central to 2.13 south east.

Days suitable for fieldwork 5.2. Topsoil 31% short, 54% adequate, 15% surplus. Subsoil 21% short, 79% adequate. Wheat 47% fair, 53% good; 93% heading, 85% 1991, 56% avg.; 19% soft dough, 12% 1991, 13% avg. Corn 85% planted, 85% 1991, 71% avg.; 59% emerged, 31% 1991, 40% avg. Crop insect activity light. Cattle condition good; marketings average; prices higher.

OREGON: Temperatures well above normal, precipitation generous statewide; coast 1.00 to 3.00 in., Willamette Valley 1.00 in., southwestern 0.30 to 0.60 in., eastern areas 0.00 to 0.75 in. most locations received under 0.60 in.

Soil moisture 30% short, 67% adequate, 3% surplus. Winter wheat 7% poor, 32% fair, 57% good, 4% excellent. Barley 95% planted. Field preparation continued, assist by good weather. Field crops generally ahead of normal. Meadows, small grains fertilized. Spring cereals fertilized, western areas; ahead of normal. Fruit thinning continue, Willamette Valley; heavy set. Fruits, nuts 1 to 3 weeks ahead of normal. Strawberry progress slowed, cool weather at mid week; one half of strawberries have bloomed. Blueberries good. Heavy cherry set, The Dalles; Bing variety heavier than Royal Anne. First plantings of vegetables complete, peas, vegetable seed crops beginning to bloom; Willamette Valley. Early sweet corn also emerging, western areas; Potato planting, field prep. underway; Klamath Basin. Livestock condition good to excellent. Stockwater continues to be short, eastern areas. Some branding, shearing underway. Statewide pasture, range 89% of normal.

PENNSYLVANIA: Temperature 56°, 6° above normal. Extremes 24°; 88°. Precipitation 0.44 in., 0.38 in. below normal.

Days suitable for fieldwork 4. Soil moisture 10% short, 80% adequate, 10% surplus. Plowing 65% complete, 67% 1991, 68% avg. Corn 7% planted, 13% 1991, 14% avg. Soybeans 1% planted, 1% 1991, 2% avg. Oats 71% planted, 77% 1991, 76% avg. Potatoes 29% planted, 36% 1991, 46% avg. Tobacco beds 100% planted, 92% 1991, 96% avg.

Barley 85% pre boot, 77% 1991, 80% avg.; 14% boot, 21% 1991, 17% avg.; 1% heading or headed, 2% 1991, 3% avg. Wheat 92% pre boot, 88% 1991, 92% avg.; 8% boot, 11% 1991, 8% avg.; 0% heading or headed, 1% 1991, 0% avg. Wheat 4% very poor, 3% poor, 21% fair, 59% good, 13% excellent. Oats 4% very poor, 2% poor, 28% fair, 50% good, 16% excellent. Hay stands mostly good to fair. Feed from pastures 4% very poor, 6% poor, 36% fair, 54% good. Peaches 38% pre pink, 24% 1991, 25% avg.; 23% pink, 13% 1991, 18% avg.; 39% full bloom or past, 63% 1991, 57% avg. Cherries 41% pre pink, 20% 1991, 24% avg.; 20% pink, 13% 1991, 17% avg.; 39% full bloom or past, 67% 1991, 59% avg. Apples 68% pre pink, 31% 1991, 36% avg.; 29% pink, 24% 1991, 28% avg.; 3% full bloom or past, 45% 1991, 36% avg. Activities: Spraying of small grains; spring plowing; repairing fence; hauling manure; spreading fertilizer; maintaining machinery; cutting ryelage; caring for livestock.

PUERTO RICO: No data available.

SOUTH CAROLINA: Temperatures across the State 4 to 8° below normal. Rainfall 0.20 in. statewide.

Days suitable for fieldwork 6.1. Soil moisture 9% very short, 36% short, 55% adequate. Tobacco fair to good; 94% planted, 94% 1991, 86% avg. Corn fair to good; 98% planted, 94% 1991, 94% avg. Watermelons fair to good; 86% planted, 86% 1991, 84% avg. Cantaloupes fair to good; 79% planted, 78% 1991, 75% avg. Cucumbers fair to good; 78% planted, 79% 1991, 81% avg. Snap beans fair to good; 64% planted, 59% 1991, 63% avg. Oats fair to good; 82% headed, 85% 1991, 84% avg.; 15% turning color, 21% 1991, 13% avg. Wheat fair to good; 80% headed, 92% 1991, 83% avg.; 9% turning color, 21% 1991, 11% avg. Rye fair to good; 24% turning color, 23% 1991, 16% avg. Grain hay fair to good; 26% harvested, 21% 1991, 25% avg. Peanuts fair; 54% planted, 50% 1991, 30% avg. Pastures fair to good. Cooler than normal weather last week slowed crop growth.

SOUTH DAKOTA: Temperatures 8 to 12° above normal. Extremes 17°; 101°. Mostly dry, light rain in the Black Hills, northwest, north central; generally less than 0.10 in. Maximum 0.25 in.

Days suitable for fieldwork 4.9. Topsoil 16% critical, 40% short, 43% adequate, 1% surplus. Subsoil 22% critical, 35% short, 42% adequate, 1% surplus. Rye 11% poor, 23% fair, 50% good, 16% excellent. Small grain seeding is ahead of normal, almost complete. Warm weather helped small grain crop development. Livestock 8% fair, 72% good, 20% excellent. Low or dry Stock dams were reported in the west. Pasture 80% of normal, greening due to warm weather. Few cows moved to pasture. Cows calved 83%. Sheep lambed 85%.

TENNESSEE: High pressure prevailed during week, however, upper atmospheric disturbances produced rain across middle, eastern area 27th. Cold front moved through State 3rd producing light showers Statewide. Temperatures well below normal, despite warming trend last half of week. Northeast, Plateau were coldest with readings between 5 to 10° below normal.

Days suitable for fieldwork 5.4. Soil moisture 3% very short, 26% short, 70% adequate, 1% surplus. Winter wheat good to excellent. Spring planting made excellent progress last week. Tick, fly, lice populations active. Livestock good to excellent.

TEXAS: High pressure moved over State during week, weak features sparked showers anyway. Steering winds slowed under high pressure; resulting showers spotty, sometimes heavy. One station reported over 1 inch of rain while nearby stations remained dry. Most districts below normal rain amounts for the week. Exceptions in Trans Pecos, Coastal Bend, Lower Valley. Temperatures remained warm with most districts above normal readings for the week. Clouds,

spotty showers kept South Texas near or below normal.

Crops: Small grains made excellent progress due to warm weather conditions. Many producers on the Plains were irrigating wheat fields, dryland fields stressed for moisture. Some fields damaged by hail in Blacklands being grazed or baled. Wheat harvest to begin soon. Wheat condition 85%, 54% 1991. Corn planting continued at rapid pace on the Plains. Emerged fields have good stands. Some insect problems detected in isolated fields. Cultivation practices continued. Corn condition 92%, 86% 1991. Grain sorghum planting active on the Plains. Some fields in Blacklands maybe replanted due to hail. Serious insect problems diminished, migration still occurring. Sorghum condition 85%, 83% 1991. Cotton planting gained momentum on irrigated fields in Plains. Some dryland producers on Plains waiting for additional moisture plant. Southern areas, cotton making good growth with warm temperatures. Some spraying for insect control underway in Coastal Bend. Rice planting gained momentum in Upper Coast. Emerged plants progressing well. Application of fertilizers, herbicides continued.

Commercial Vegetables: Rio Grande Valley, preparation for melon harvest underway. Insect damage minimum on melon plants. Whitefly population being monitored. High Plains, onions, potatoes being watered. Spraying for insect control began. Trans Pecos, emerged chile plants progressing well. Planting cantaloupes continued. East Texas, vegetables making good growth. Pecan trees appeared to have good leaf development. Trees being fertilized, sprayed across the State.

Range and Livestock: Pastures being fertilized and sprayed for weed control. Livestock conditions good around State as pastures provide adequate grazing. Hornfly population increasing.

UTAH: Temperature maximums 13° above normal, minimums averaged 7° above normal. No rainfall.

Days suitable for fieldwork 6.9. Soil moisture 68% short; 32% adequate. Spring wheat emerged 91%, 82% 1991, 82% avg. Barley emerged 88%, 72% 1991. Oats 79% planted, 75% 1991.; emerged 52%, 47% 1991. Winter wheat height 10.7 inches, 5.9 inches 1991. Winter wheat jointed or better 42%. Corn 53% planted, 25% 1991; emerged 12%, 4% 1991. Alfalfa height 12.3 inches, 5.4 inches 1991, 8.4 inches Avg. Potatoes planted 55%. A problem with over population of Mormon crickets was reported in Tooele county. Apricots, sweet cherries, peaches good to excellent condition. Tart cherries, pears, apples mostly excellent condition. Calf death losses, sheep death losses below normal to normal. Pasture, range poor to fair condition.

VIRGINIA: Temperatures 7 to 10° below normal. Extremes 26°; 88°. Precipitation varied greatly with most areas receiving 0.33 in. or less.

Days suitable for fieldwork 3.8. Topsoil 4% short, 83% adequate, 13% surplus. Pasture 2% poor, 39% fair, 50% good, 9% excellent. Alfalfa 2% very poor, 8% poor, 30% fair, 52% good, 8% excellent. Barley 2% poor, 24% fair, 66% good, 8% excellent. Wheat 1% poor, 20% fair, 68% good, 11% excellent. Apples mostly good. Peaches mostly fair to good. Potatoes mostly fair. Other hay 9% poor, 48% fair, 43% good. Corn 45% planted, 47% 1991, 38% avg.; 2% poor, 58% fair, 40% good. Cotton 30% planted, 87% 1991, 64% avg. Peanuts 13% planted, 23% 1991, 13% avg. Flue tobacco 10% transplanted, 14% 1991, 10% avg. Soybeans 2% planted, 3% 1991, 3% avg. Harvesting rye for haylage, spraying orchards, spraying tomatoes, potatoes, planting snaps, cucumbers.

WASHINGTON: Temperatures 3 to 8° above normal west; 2 to 7° above normal east. Precipitation 0.82 to 2.35 in. west; 0.07 to 0.81 in. east.

Days suitable for fieldwork 5.3. Soil moisture 41% short, 58% adequate, 1% surplus. Hay, other roughage 16% short, 71% adequate, 13% surplus. Range, pasture 46% poor, 21% fair, 32% good, 1% excellent. Winter wheat 42% fair, 58% good. Winter barley 2% fair, 98% good. Potatoes 80% planted, 76% 1991, 78% avg.; 29% emerged, 36% 1991, 37% avg. Spring wheat 99% planted, 96% 1991, 96% avg.; 97% emerged, 79% 1991, 84% avg. Barley 99% planted, 93% 1991, 91% avg.; 92% emerged, 60% 1991, 72% avg. Dry peas 99% planted, 80% 1991, 84% avg. Some moisture was received, however dry soil conditions still prevail in the dryland cereal producing areas. Some winter wheat showed disease symptoms in the dryland areas. Flag leaves were showing and some wheat was in the boot stage. Canola was emerged. First cutting of alfalfa hay started. Apple thinning was in progress. Cranberries were beginning to bloom about 5 weeks ahead of schedule. Most cattle were in spring pasture; some were moving to summer grazing areas.

WEST VIRGINIA: Temperature 54°. Extremes 26°; 90°. Precipitation 0.68 in.

Days suitable for fieldwork 3.5. Soil moisture, 7% short, 79% adequate, 14% surplus. Tobacco beds fair to good; 77% planted, 54% emerged. Gardens fair to good; 21% planted, 17% emerged. Wheat good. Barley good. Corn 20% planted, 7% emerged. Oats 37% planted, 30% emerged. Hay 5% very poor, 9% poor, 28% fair, 58% good. Apples good. Peaches good. Pastures 10% very poor, 2% poor, 46% fair, 42% good; 77% of normal. Hay feed supplies adequate. Other feed supplies adequate. Cattle 8% poor, 7% fair, 85% good. Sheep 5% poor, 2% fair, 93% good. Cows calved 93%. Sheep lambed 95%. Farm activities: General maintenance, plowing, planting corn, oats, seeding tobacco beds, fencing, fertilizing, working cattle, calving, lambing.

WISCONSIN: Temperature 54°; 4° above normal. Extremes 15°; 94°. Precipitation 0.10 to 0.60 in.

Days suitable for fieldwork 5.2. Farmers were finally able to get into fields this week. Much of the work was done over the weekend. In the northern districts, fields slower to dry due to cooler weather. Soil moisture 1% short, 61% adequate, 38% surplus. Intended spring tillage 39% complete, 36% 1991, 55% avg. Oats 42% planted, 46% 1991, 68% avg. Corn 5% planted, 6% 1991, 12% avg. Damage to winter wheat 1% reported no damage, 7% with light damage, 14% with moderate damage and 78% reported severe damage. Damage to alfalfa: 5% report no damage, 26% light damage, 47% moderate damage, 22% report severe damage.

WYOMING: Temperatures were well above normal. Some areas were as much as 8 to 12° above normal. Precipitation none for the week with the exception of the northwest where very light rainfall was recorded. All areas had far below normal weekly precipitation for late April and early May.

Days suitable for fieldwork 6.5. Cumulative days of fieldwork since April 1st 33.1. Topsoil 61% short, 39% adequate. Spring wheat 91% planted, 64% 1991, 68% avg.; 43% emerged, 33% 1991, 31% avg. Oats 73% planted, 57% 1991, 57% avg.; 36% emerged, 21% 1991, 24% avg. Barley 91% planted, 81% 1991, 82% avg.; 56% emerged, 54% 1991, 54% avg. Sugarbeets 95% planted, 86% 1991, 87% avg.; 20% emerged, 23% 1991, 22% avg. Corn 47% planted, 18% 1991, 18% avg.; 8% emerged. Potatoes 33% planted, 25% 1991, 24% avg.; 23% emerged, 13% 1991. Farmers preparing fields for dry bean planting. Winter wheat 16% poor, 51% fair, 33% good. Small grain insect infestation light to moderate; heavy in parts of the southwest. Livestock good to excellent. Spring calves born 91%, 89% 1991, 89% avg. Farm flock ewes lambed 98%, 96% 1991, 93% avg.; shorn 96%, 92% 1991, 90% avg. Range flock ewes lambed 51%, 57% 1991, 57% avg.; shorn 83%, 73% 1991, 71% avg. Calf, lamb death losses light to normal. Range livestock moved to summer ranges: cattle, calves 11%; sheep and lambs 12%. Range, pastures good to excellent.

April 1992
MONTHLY DATA FROM SELECTED FOREIGN CITIES
CLIMATE ANALYSIS CENTER-NMC-NWS-NOAA
 *** = DATA NOT AVAILABLE

International Weather and Crop Summary
HIGHLIGHTS

April 26 - May 2, 1992

FORMER USSR: Mostly dry weather in central crop areas of Russia and Ukraine allows rapid spring grain planting. Unseasonable cold slows winter grain growth and spring grain emergence.

EUROPE: Rain helps crop development from the United Kingdom to western Hungary.

EASTERN ASIA: Rainfall is too light to significantly help heading winter wheat in the North China Plain.

SOUTHEAST ASIA: Showers continue over Indochina, but more is needed for main-season rice and corn planting.

SOUTH ASIA: Showers boost pre-planting moisture in southern and eastern rice areas.

SOUTH AMERICA: Wetness slows harvesting in Brazil's center-south and in northeastern Argentina.

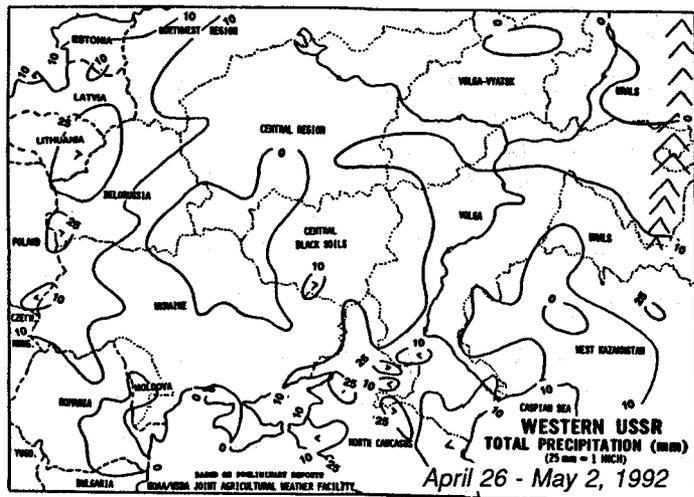
AUSTRALIA: Rain in the east slows harvesting but improves topsoil moisture for winter grain planting.

NORTHWESTERN AFRICA: Unseasonably warm, dry weather favors winter grain maturation in Morocco and western Algeria. Rain benefits immature crops in Tunisia.

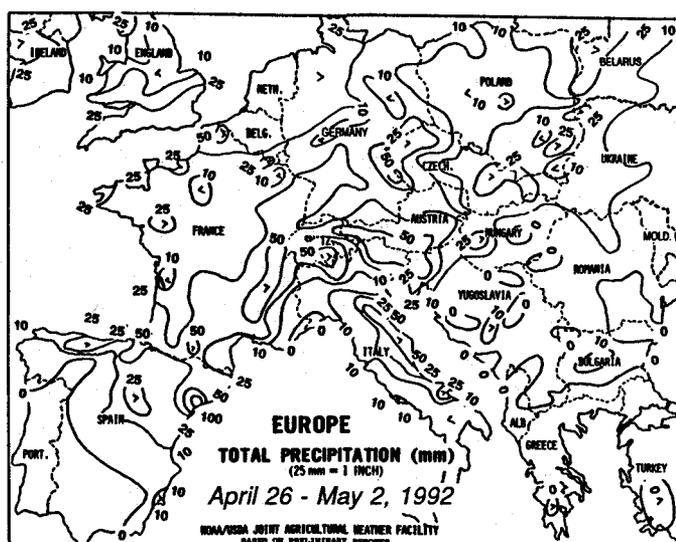
SOUTH AFRICA: Much needed rain helps Cape Province winter wheat planting.

COUNTRY	CITY	TEMPERATURE (C)					PRECIPITATION (MM)		
		AVG MAX	AVG MIN	HI MAX	LO MIN	AVG	DPART F/NRM	TOTAL	DPART F/NRM
NORWAY	OSLO	7	-1	16	-6	3	0.3	68	19
SWEDEN	STOCKHOLM	7	0	15	-9	3	-1.2	84	52
FINLND	HELSINKI	5	-1	12	-10	2	-0.3	55	14
U KING	GLASGOW	11	5	15	-1	8	-0.5	78	15
	EDINBURGH	11	4	16	-1	8	0.7	94	56
	BIRMINGHAM	13	5	17	-2	9	1.1	38	-5
	LONDON	13	4	18	-2	9	0.8	76	20
IRELND	DUBLIN	12	6	17	2	9	0.9	79	32
ICELND	REYKJAVIK	5	0	9	-4	3	-0.7	35	-23
DENMRK	COPENHAGEN	10	3	15	-3	6	-0.2	33	-5
LUXEMB	LUXEMBOURG	13	4	20	-1	8	0.2	27	-22
SWITZL	ZURICH	13	5	26	0	9	0.8	97	6
	GENEVA	15	6	26	-1	10	1.3	84	26
FRANCE	PARIS/ORLY	15	6	22	1	10	***	39	**
	STRASBOURG	16	5	25	-1	10	1.0	41	-2
	BOURGES	15	5	23	-1	10	0.0	40	-6
	BORDEAUX	17	7	26	1	12	0.7	73	13
	TOULOUSE	17	7	25	1	12	0.8	39	-17
	MARSEILLE	19	9	28	4	14	1.1	18	-25
SPAIN	VALLADOLID	18	5	26	-3	12	1.6	28	-7
	MADRID	21	6	29	-1	13	1.2	19	-24
GERMNY	LEIPZIG	11	2	13	0	7	-1.5	12	-29
	DRESDEN	10	3	14	0	7	-1.5	3	-43
	HAMBURG	12	4	17	-2	8	1.0	81	34
	BERLIN	14	5	25	1	10	1.0	33	-7
	DUSSELDORF	14	6	19	1	10	0.2	69	18
	STUTTGART	14	3	27	-4	8	-0.3	34	-21
	NURNBERG	14	3	27	-3	9	0.5	25	-19
	MUNICH	13	3	26	-3	8	0.3	81	9
AUSTRI	VIENNA	16	5	26	-1	10	0.4	27	-16
	INNSEBRUCK	14	3	26	-1	9	-0.1	92	27
CZECH	PRAGUE	13	3	26	-4	8	0.6	21	-17
POLAND	WARSAW	12	3	22	-4	8	0.0	35	0
	LODZ	12	4	22	-2	8	0.7	26	-24
	KATOWICE	13	3	25	-6	8	0.6	62	8
	PRZEMYSL	13	4	24	-2	8	0.4	31	-17
HUNGAR	BUDAPEST	17	7	28	1	12	1.2	13	-26
YUGOSL	SARAJEVO	15	5	28	-2	9	0.0	105	29
ROMANI	BUCHAREST	18	5	28	-1	11	0.1	47	2
BULGAR	SOFIA	16	6	25	-1	11	0.6	85	38
ITALY	MILAN	17	7	26	0	12	0.0	96	18
	VERONA	18	7	26	2	12	0.2	28	-32
	VENICE	16	9	22	5	12	0.2	65	-7
	GENOA	17	11	25	7	14	-0.7	86	1
	ROME	18	10	25	5	14	0.7	94	45
	NAPLES	18	10	23	6	14	1.0	68	-6
GREECE	THESSALONIKA	19	8	27	3	14	-0.5	70	34
	LARISSA	20	7	26	2	14	-0.1	99	71
	ATHENS	19	11	26	7	15	-1.1	17	0
TURKEY	ISTANBUL	17	9	26	4	13	1.9	38	0
	ANKARA	16	2	26	-4	9	-2.3	36	10
CYPRUS	LARNACA	22	11	27	7	16	-0.4	12	-9
USSR	TALLINN	6	0	15	-6	3	0.1	64	28
	LENINGRAD	6	1	20	-5	4	0.1	74	38
	KAUNAS	9	2	16	-3	6	-0.2	56	17
	MINSK	9	2	18	-3	5	-0.3	71	31
	KAZAN	9	2	18	-3	5	1.0	34	2
	MOSCOW	9	2	18	-4	6	0.0	35	-3
	SVERDLOVSK	6	-3	20	-14	1	-2.8	47	21
	OMSK	6	-3	21	-17	2	-1.4	18	-2
	KUSTANAY	10	-1	25	-7	5	-0.1	6	-16
	KRASNOYARSK	4	-4	15	-15	1	-0.7	44	18
	NOVOSIBIRSK	4	-4	18	-17	0	1.0	42	29
	BARNAUL	7	-1	17	-16	3	0.4	35	7
	KHABAROVSK	10	0	19	-8	5	1.6	33	-5
	VLADIVOSTOK	9	3	19	-4	6	1.5	19	-44
	KIEV	11	4	20	-1	7	-1.0	87	47
	LVOV	12	4	23	-3	8	0.4	69	21
	KIROVOGRAD	14	3	22	-6	8	-0.3	11	-21
	ODESSA	11	6	17	1	8	-0.5	6	-25

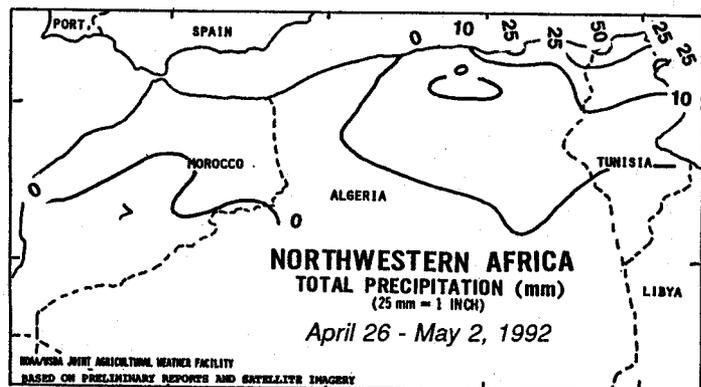
Based on Preliminary Reports



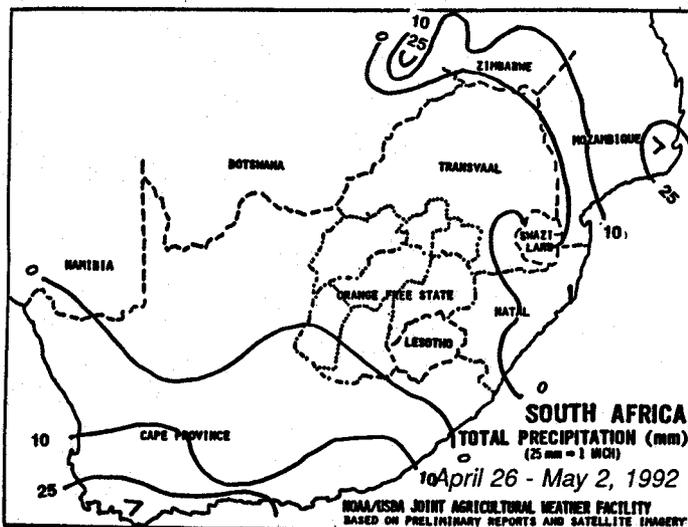
FORMER USSR: Winter grains were greening in the extreme north and jointing in Ukraine and North Caucasus. Spring grain planting continued to progress northward. Corn, sunflower, and sugarbeet planting is usually just beginning in extreme southern Ukraine. Dry weather covered most of Ukraine, Black Soils Region, eastern Belarus, and Central Region, allowing spring grain planting to progress at a rapid pace. Although light precipitation (10-25 mm) over the Baltic States, western Belarus, western Ukraine, North Caucasus, and Volga Valley slowed spring grain planting, the moisture benefited winter grains. Unusually warm weather covered western Ukraine where weekly average temperatures ranged from 3 to 4 degrees Celsius (C) above normal. In contrast, unseasonable cold (weekly average temperatures 4-7 degrees C below normal) over eastern Ukraine, Black Soils Region, North Caucasus, and Volga Valley slowed winter grain growth and spring grain emergence.



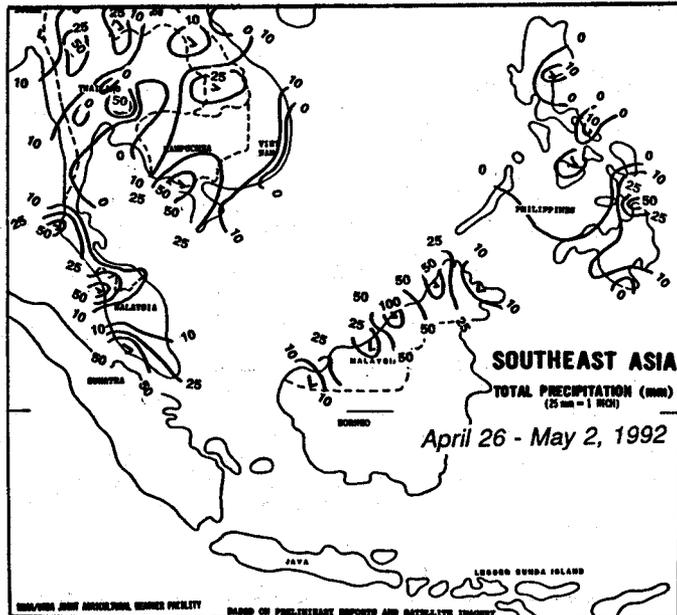
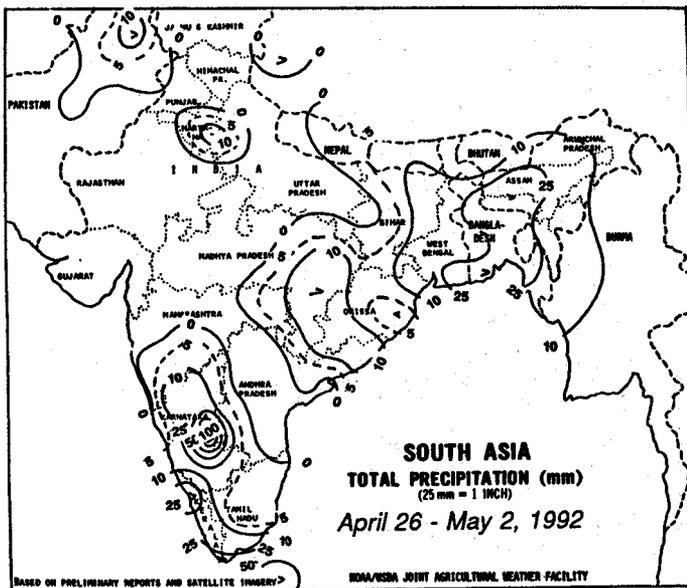
EUROPE: Storminess increased over western Europe, with beneficial showers (10-33 mm) stretching from the United Kingdom to Germany, throughout France and much of northern Italy, and reaching into northeastern Spain. The rain was especially needed for jointing to heading winter grains and summer crop establishment. Generally favorable conditions prevailed in Poland and Czechoslovakia, where weekly rainfall varied from 5 mm in central Poland to over 30 mm in both western and eastern extremities of Czechoslovakia. Much-needed rain (10-27 mm) fell in the northern and western portions of Hungary, where soil moisture is low for winter grain development and early corn planting. However, dryness continued in southeastern Hungary and Romania and extended throughout most of southeastern Europe. Dry weather prevailed in the south from Portugal across the Mediterranean to Greece, favoring early harvesting but limiting moisture supplies. Mild weather prevailed across Europe, with weekly temperatures averaging 1-5 degrees Celsius above normal.



NORTHWESTERN AFRICA: Unseasonably warm, dry weather covered winter grains in Morocco, western and central Algeria, favoring winter grain maturation. Light to moderate rain (10-52 mm) in extreme eastern Algeria and Tunisia benefited immature crops. Winter grain harvesting usually begins in May and extends through July. Weekly average temperatures were above normal in Morocco and 3-5 C below normal in Tunisia.

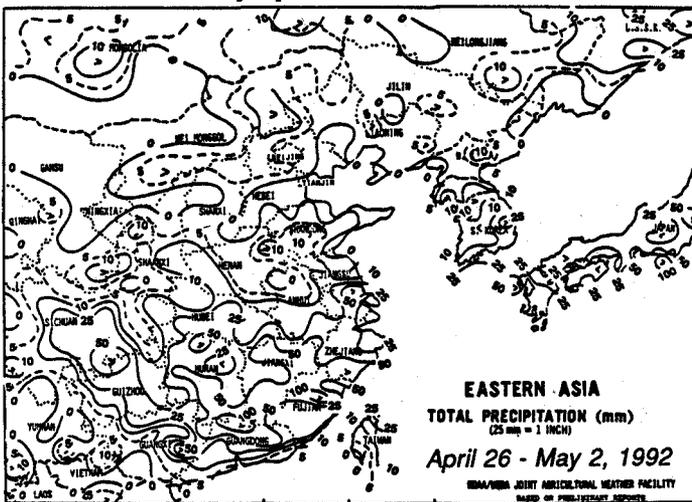


SOUTH AFRICA: Highly beneficial, moderate showers (10-40 mm) in winter wheat areas of southern Cape Province were timely for planting and germination. However, more rain is needed for proper establishment following the summer drought. Drier conditions prevailed elsewhere, favoring mature corn and winter wheat planting in eastern areas. The first widespread frost of the season covered grain areas of Orange Free State and southern Transvaal.

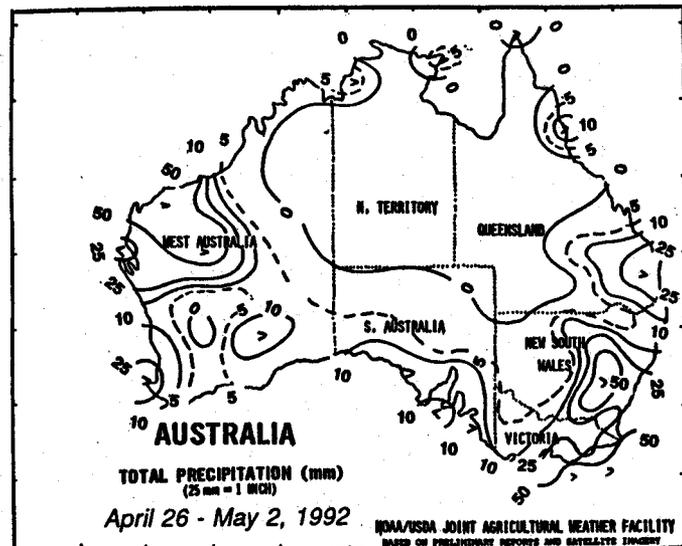


SOUTH ASIA: Moderate rain (10-47 mm) fell in rice areas of eastern India and Bangladesh, and in western crop areas of India's southern tip, improving pre-planting moisture. Convective showers, accompanied by the warmest temperatures of the season, are expected during May in the south and east. The southwest monsoon usually arrives in these areas during early June. In central India, hot weather continued, but periods of cloudiness and scattered, light rain (1-16 mm) brought some relief from the heat. Further north, scattered, mostly light rain (10 mm or less) had little impact on winter grain and oilseed harvests, winding down following mostly favorable conditions during April.

SOUTHEAST ASIA: Scattered showers (10-50 mm or more) continued over Indochina, bringing relief from unseasonably hot weather. While recent shower activity has increased, below-normal pre-monsoon rainfall and hot weather have maintained high evaporative losses. Widespread showers are required to prevent further delays in rice and corn planting activities. Further south, moderate to heavy showers (25-98 mm) continued along the Malay Peninsula and eastern Malaysia. Data were missing from Indonesia, but satellite imagery depicted continuing shower activity over Java and Sumatra. In the Philippines, dry, warm weather dominated all primary crop regions, causing further delays in corn and rice planting.

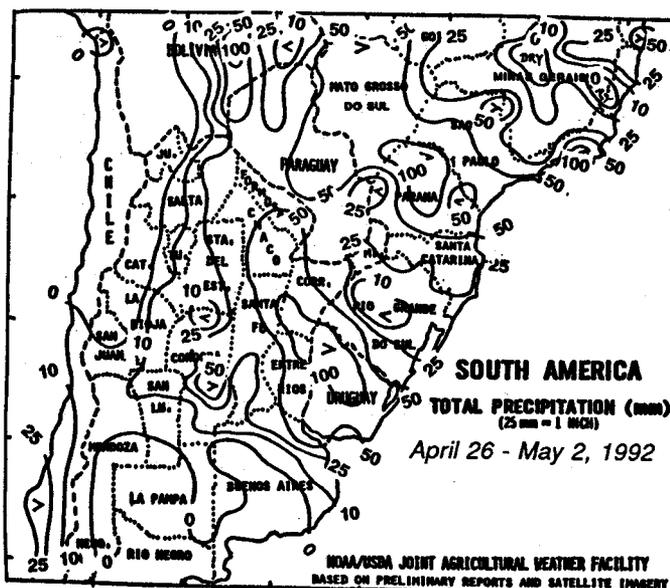


EASTERN ASIA: Showers swept across winter wheat areas of the North China Plain, but amounts were too light (10 mm or less) to improve conditions for heading grains in Shanxi, Hebei, and Shandong. Above-normal temperatures (average temperatures 1-3 degrees C above normal, highs from the upper 20's to low 30's) placed additional stress on winter crops. Heavier rain (10-25 mm or more) benefited reproductive winter wheat from Hubei to Jiangsu. Moderate to heavy showers (25-100 mm) maintained mostly favorable moisture reserves from the Yangtze Valley southward but caused some additional local flooding. Rainfall was light and scattered in Manchuria, allowing spring wheat planting to progress.



AUSTRALIA: Significant showers covered much of the wheat belt, providing beneficial pre-season moisture for the upcoming planting season. Early wheat planting has likely begun in southeastern Queensland, where weekly rainfall averaged 5-25 mm in most crop areas. Locally heavier rain (25-70 mm) fell in eastern New South Wales, providing topsoil moisture for winter grain planting but delaying any summer crop harvesting. Light showers (1-7 mm) fell in Victoria and southwestern New South Wales, while 8-18 mm of rain improved topsoils in South Australia. Variable shower activity brushed Western Australia.

SOUTH AMERICA: In Brazil, showers diminished in Rio Grande do Sul, where weekly rainfall ranged from 5 to 25 mm in the major soybean areas. Frequent wetness continues to hamper crop harvesting throughout Brazil's corn and soybean region of the center-south, however. Locally heavy rain (75-115 mm) delayed fieldwork in Mato Grosso do Sul and Parana, while significant showers (20-60 mm) fell over Sao Paulo, southern Minas Gerais, and Goias. Inundating rain (75-142 mm) soaked Uruguay. In Argentina, widespread rain (20-78 mm) slowed or halted fieldwork in northern portions of the major corn-producing areas, including much of Cordoba and Santa Fe, and extreme northern Buenos Aires. The heavy rain also interfered with northern cotton harvesting. Mostly dry weather prevailed over most of Buenos Aires and La Pampa, improving conditions for harvesting following the previous week's rain.

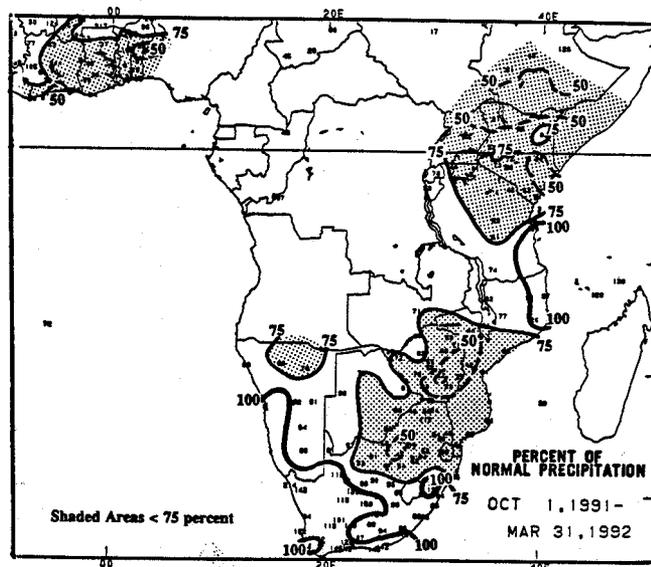


The 1991-92 Southern African Drought

The 1991-92 growing season was one of the worst this century across southern Africa, with drought affecting every country in the region. The dry weather has had a devastating impact on food production, livestock, and water supplies. Data compiled by USDA shows crop production is likely to drop some 60 percent from last year. The result could be "widespread severe malnutrition later in the year in the more vulnerable areas," according to the U.S. Agency for International Development (USAID). Reports from Zimbabwe, in the heart of the drought region, speak of thousands of cattle deaths, severe water shortages, and total crop failures in some areas. According to USAID, over 60 percent of the rural population has applied for government-funded relief. In Mozambique, three major cities will reportedly run out of water soon. The heat and dryness have destroyed 100 percent of the corn crop in parts of Mozambique (USAID).

The start to the season was promising in most areas, with dryness in October and November mainly limited to southern Zimbabwe and South Africa's Transvaal. In December, drought became firmly established in the southern half of Zimbabwe and across the southern two-thirds of Mozambique, with rainfall less than one-half normal. December rainfall totaled as little as one-tenth of normal in southern Zimbabwe. Intense heat and dryness scorched southern Africa in January and February, damaging crops during critical growth stages. Rainfall was under 50 percent of normal for the 2-month period across much of the region (Weekly Weather and Crop Bulletin, Feb. 25, 1992). Rainfall under 20 percent of normal resulted in total crop losses in parts of Zimbabwe and the western Maize Triangle of South Africa (USDA). As the accompanying map shows, growing-season rainfall (Oct. - Mar.) was well below normal across the region.

In Zimbabwe and South Africa, the January-February heat and dryness was even more severe than during the 1982-83 drought, which was considered one of the worst on record. In Harare, Zimbabwe, January-February rainfall totaled under 100 mm for the first time this century. In Pretoria, South Africa, the mean January-February temperature was the highest on record. Though more normal rains returned in March to much of the region, unusually dry, warm weather continued in the major summer crop areas of South Africa. April was warm and dry across most of the region. With little rain expected during the May-August dry season, the drought's impact on water supplies and grasslands can be expected to continue at least until next October-November, when the 1992-93 rainy season begins.



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(Continued from front cover)
complex and a fast-moving cold front. The complex developed over **Oklahoma** at midweek and plunged southeastward, dumping 3 inches of rain on **McAlester, OK**, and **Lake Charles, LA**. The front swept across the **Northern States**, producing more than 1 inch of rain in the **coastal Pacific Northwest** and wind gusts above 70 mph in parts of **Montana**. Briefly cooler air punched into the **Northwest**, allowing **Bend, OR**, to reach 26°F on May 1. Farther east, the front permitted a short-lived warmup and generated thunderstorms. On Saturday, most of **New York** was pelted by more than 1 inch of rain, while **Williamsport, PA**, surged to 88°F. At week's end, sharply colder air lurked in **eastern Canada**, while heat began to rebuild into the **West**.

(Continued from p. 16)

Crop Condition
(Percent)

for the Week Ending May 3, 1992

WINTER WHEAT

State	VP	P	F	G	EX
AR	0	0	11	78	11
CA	0	0	5	60	35
CO	3	9	24	53	11
GA	0	0	27	73	0
ID	1	7	26	50	16
IL	16	15	31	36	2
IN	10	21	57	12	0
KS	0	21	34	37	8
MI	5	10	30	40	15
MO	9	19	54	18	0
MT	4	20	32	37	7
NE	5	15	49	26	5
NC	0	0	8	91	1
OH	8	16	38	32	6
OK	0	0	47	53	0
OR	0	7	32	57	4
SD	7	19	44	28	2
TX	0	1	23	62	14
WA	0	0	42	58	0
19 State	2	11	35	45	7
Prev Week	2	8	36	46	8
Prev Year	3	14	38	39	8

VP - Very Poor P - Poor F - Fair
G - Good EX - Excellent

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