

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

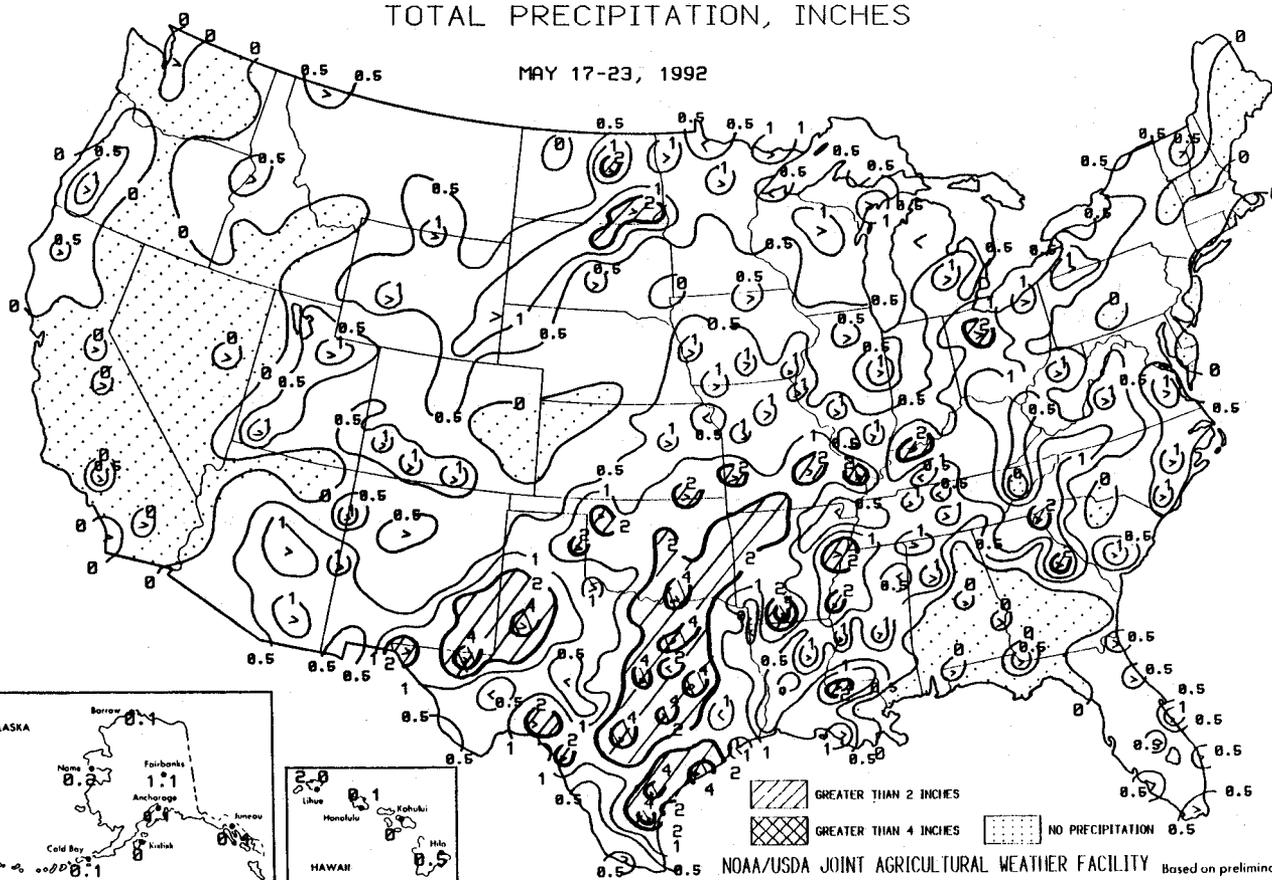
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May 27, 1992

TOTAL PRECIPITATION, INCHES

MAY 17-23, 1992



NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY Based on preliminary reports

HIGHLIGHTS

May 17 - 23, 1992

Cold frontal incursions twice pushed unseasonably cool air into the **Northern and Eastern States**, and rains deluged the **South Central States**. Elsewhere, beneficial showers fell in the **middle and lower Mississippi Valley**, the **eastern Corn Belt**, and the **northern Plains**, but dry weather persisted in the **west-central Plains** and in parts of the **Southeast**. Early in the week, heavy rain continued in **eastern Texas**, while thunderstorms heralded the passage of a cold front through the **Eastern States**. Farther west, westerly downslope winds pushed temperatures into the 90's throughout the **northern Plains**. By midweek, the ribbon of warmth reached the **Great Lakes** and **interior New England**, nestled between cold airmasses along the **Atlantic coast** and in **south-central Canada**. On Thursday, **Pomona** and **Atlantic City, NJ**, registered lows of 28°F, while **Caribou, ME**, reached 92°F. A day later, **Atlantic City** attained 91°F, and **Newark, NJ**, reached 98°F, tying their all-time record for May. Meanwhile in **south-central Texas**, heavy rains ended by midweek, but not before pushing the **San Antonio** and

Guadalupe Rivers out of their banks. Heavy rain developed in the **southern High Plains** after midweek, later spreading into the **east-central Plains** and the **eastern Corn Belt**. Flash flooding was prevalent in **western Texas** and **southeastern New Mexico**. Late in the week, unseasonably cold air nosed into the **northern Plains**. Temperatures dropped to 29°F in **Great Falls, MT**, and 28°F in **Bismarck, ND**.

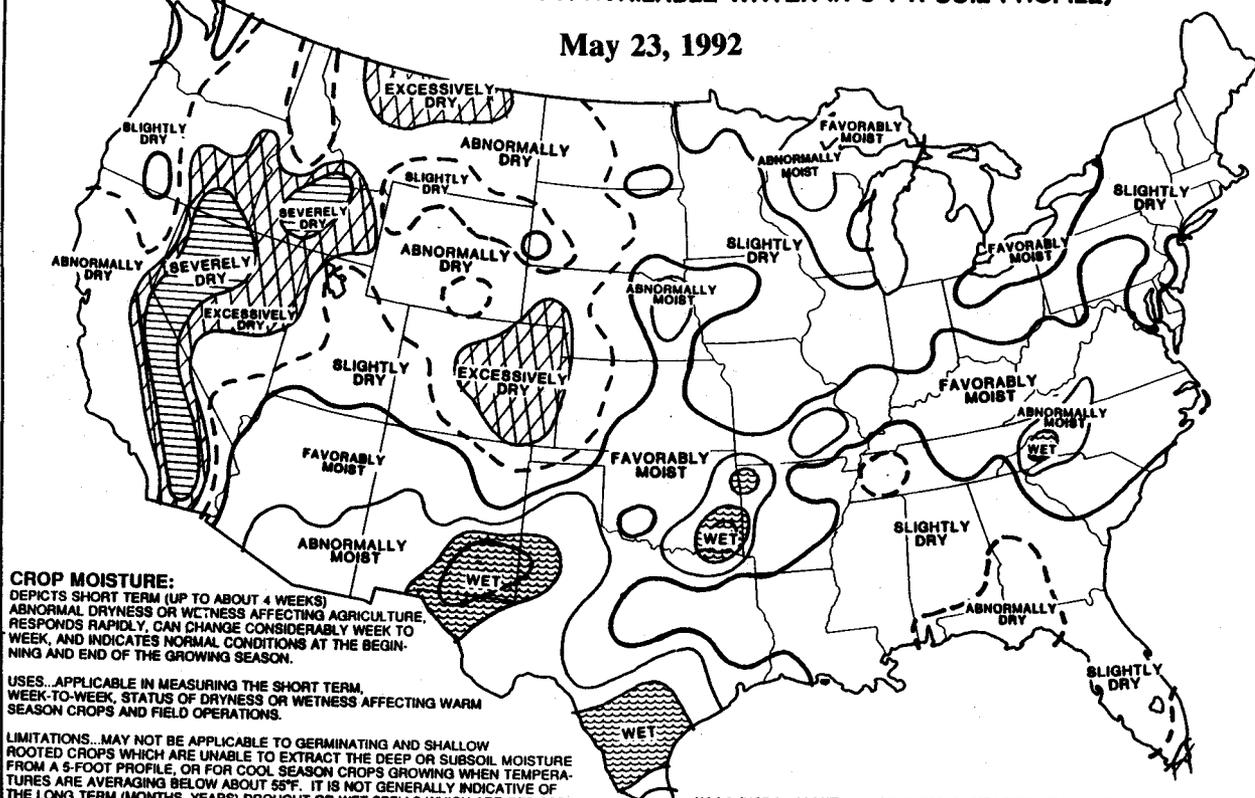
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CROP MOISTURE (SHORT TERM, CROP NEED VS. AVAILABLE WATER IN 5-FT. SOIL PROFILE)

May 23, 1992



CROP MOISTURE:
 DEPICTS SHORT TERM (UP TO ABOUT 4 WEEKS) ABNORMAL DRYNESS OR WETNESS AFFECTING AGRICULTURE. RESPONDS RAPIDLY, CAN CHANGE CONSIDERABLY WEEK TO WEEK, AND INDICATES NORMAL CONDITIONS AT THE BEGINNING AND END OF THE GROWING SEASON.

USES... APPLICABLE IN MEASURING THE SHORT TERM, WEEK-TO-WEEK, STATUS OF DRYNESS OR WETNESS AFFECTING WARM SEASON CROPS AND FIELD OPERATIONS.

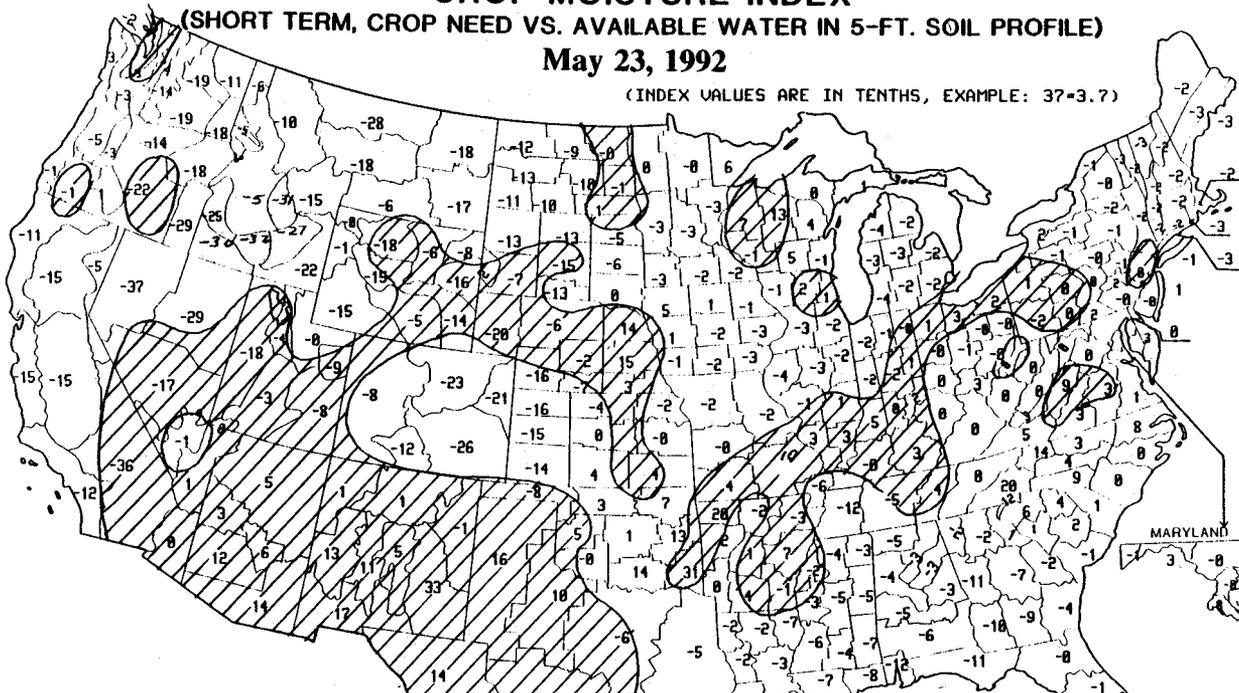
LIMITATIONS... MAY NOT BE APPLICABLE TO GERMINATING AND SHALLOW ROOTED CROPS WHICH ARE UNABLE TO EXTRACT THE DEEP OR SUBSOIL MOISTURE FROM A 5-FOOT PROFILE, OR FOR COOL SEASON CROPS GROWING WHEN TEMPERATURES ARE AVERAGING BELOW ABOUT 55°F. IT IS NOT GENERALLY INDICATIVE OF THE LONG TERM (MONTHS, YEARS) DROUGHT OR WET SPELLS WHICH ARE DEPICTED BY THE DROUGHT SEVERITY INDEX.

NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY Based on preliminary reports

CROP MOISTURE INDEX (SHORT TERM, CROP NEED VS. AVAILABLE WATER IN 5-FT. SOIL PROFILE)

May 23, 1992

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



SHADED AREAS: INDEX INCREASED OR DID NOT CHANGE

- ABOVE 8 EXCESSIVELY WET, SOME FIELDS FLOODED
- 2 TO 8 TOO WET, SOME STANDING WATER
- 1 TO 2 PROSPECTS ABOVE NORMAL, SOME FIELDS TOO WET
- 0 TO 1 MOISTURE ADEQUATE FOR PRESENT NEEDS
- 0 TO -1 PROSPECTS IMPROVED BUT RAIN STILL NEEDED
- 1 TO -2 SOME IMPROVEMENT BUT STILL TOO DRY
- 2 TO -3 BROUGHT EASED BUT STILL SERIOUS
- 3 TO -4 DROUGHT CONTINUES, RAIN URGENTLY NEEDED
- BELOW -4 NOT ENOUGH RAIN, STILL EXTREMELY DRY

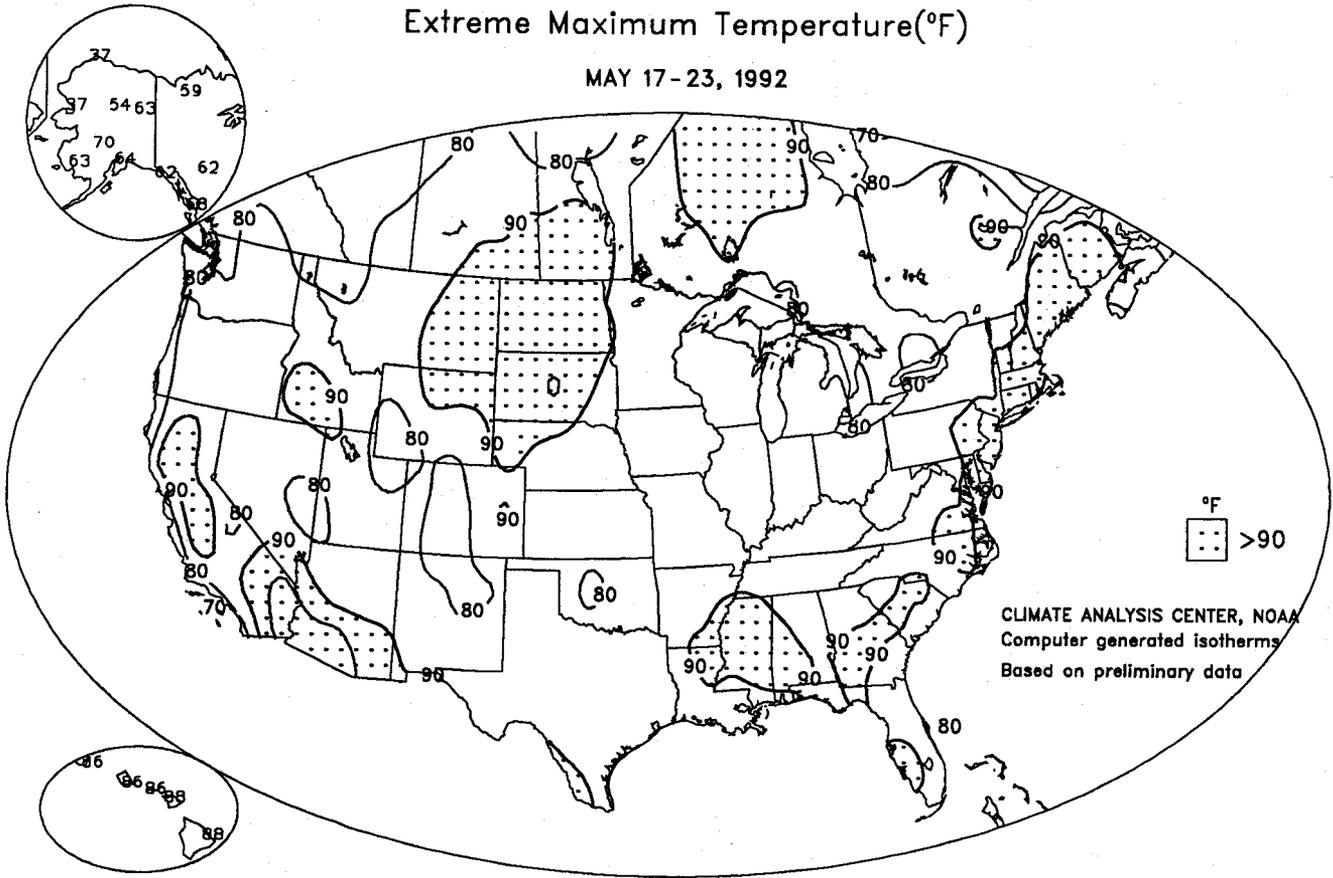
UNSHADED AREAS: INDEX DECREASED

- ABOVE 8 SOME DRYING BUT STILL EXCESSIVELY WET
- 2 TO 8 MORE DRY WEATHER NEEDED, WORK DELAYED
- 1 TO 2 FAVORABLE, EXCEPT STILL TOO WET IN SPOTS
- 0 TO 1 FAVORABLE FOR NORMAL GROWTH AND FIELDWORK
- 0 TO -1 TOPSOIL MOISTURE SHORT, GERMINATION SLOW
- 1 TO -2 ABNORMALLY DRY, PROSPECTS DETERIORATING
- 2 TO -3 TOO DRY, YIELD PROSPECTS REDUCED
- 3 TO -4 POTENTIAL YIELDS SEVERELY CUT BY DROUGHT
- BELOW -4 EXTREMELY DRY, MOST CROPS RUINED

NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY Based on preliminary reports

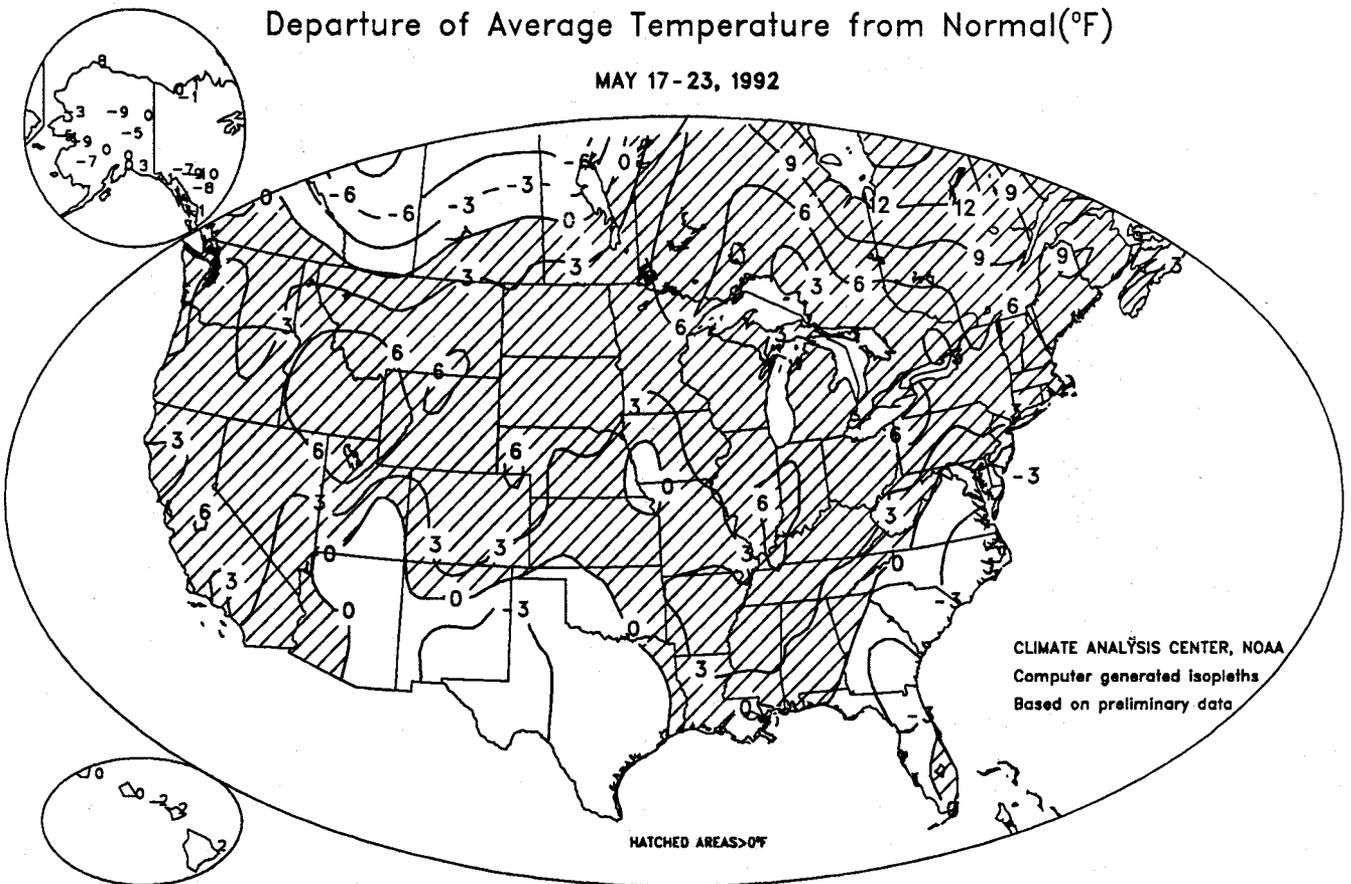
Extreme Maximum Temperature(°F)

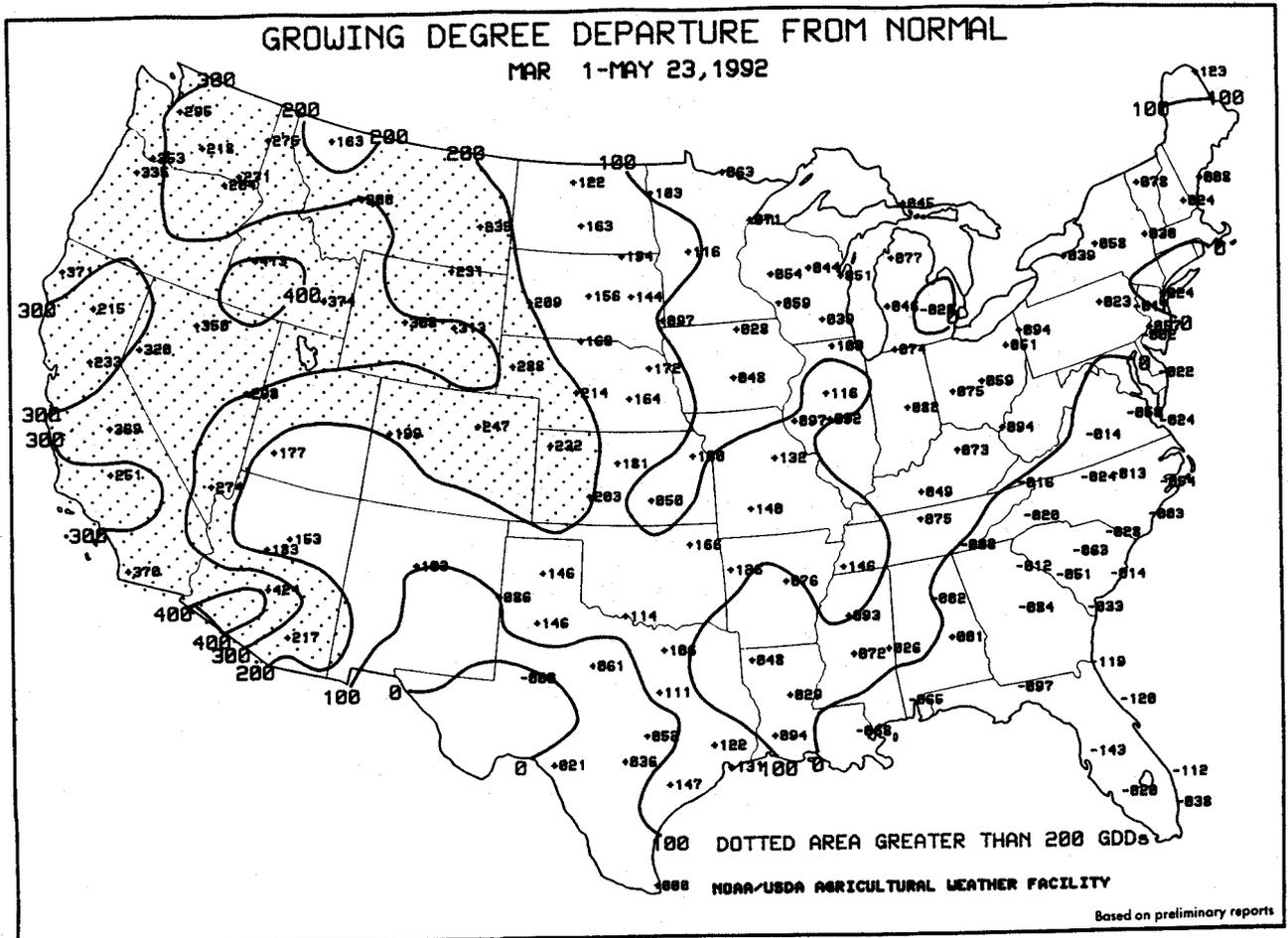
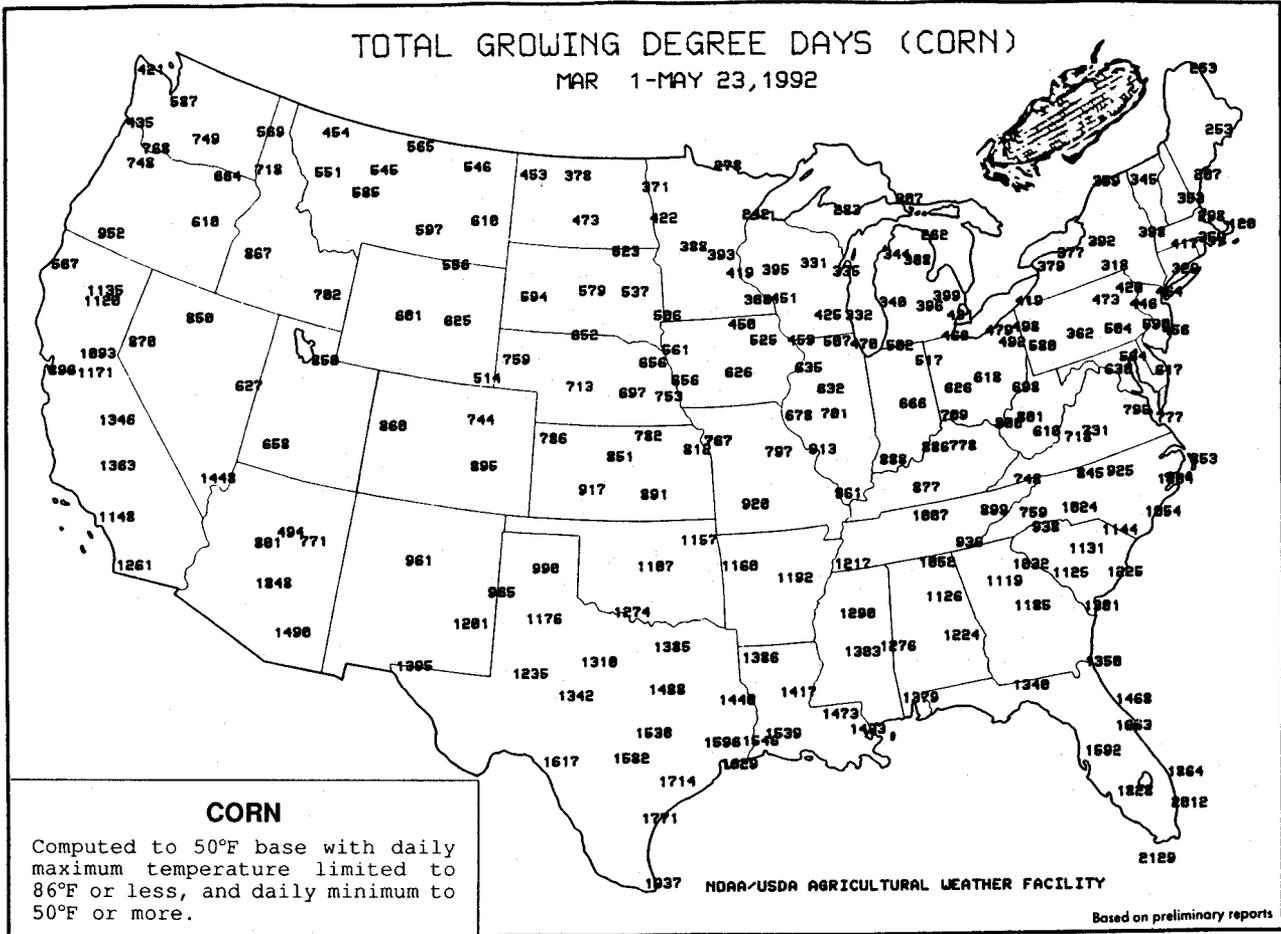
MAY 17-23, 1992



Departure of Average Temperature from Normal(°F)

MAY 17-23, 1992





Cold Nips the High Plains and Great Lakes

Record cold across the High Plains and Great Lakes regions on Monday and Tuesday mornings, May 25 and 26, threatened crops in several States. On Monday, sub-freezing temperatures spread across much of Michigan, affecting fruit crops during their flowering stage, when they are most vulnerable to cold damage. The freeze also hit parts of North Dakota and Montana, but crops were not vulnerable in these States (fig. 1). On Tuesday, however, the freezing temperatures spread southward to Kansas, where Goodland

reported 27° F (fig. 2). Wheat in western Kansas, eastern Colorado, and western Nebraska in the flowering stage of development was susceptible to freeze damage. Impacts would be highly variable from field to field, depending on the growth stage. Few damage reports are available, but more information should be available in next week's *Bulletin*. A few days earlier, low temperatures damaged some crops in the Northeast (see State Summaries in this issue for New Jersey, Maryland, and Delaware).

--Douglas Le Comte

Figure 1 Minimum Temperatures (°F) through 7 a.m. CDT
May 25, 1992

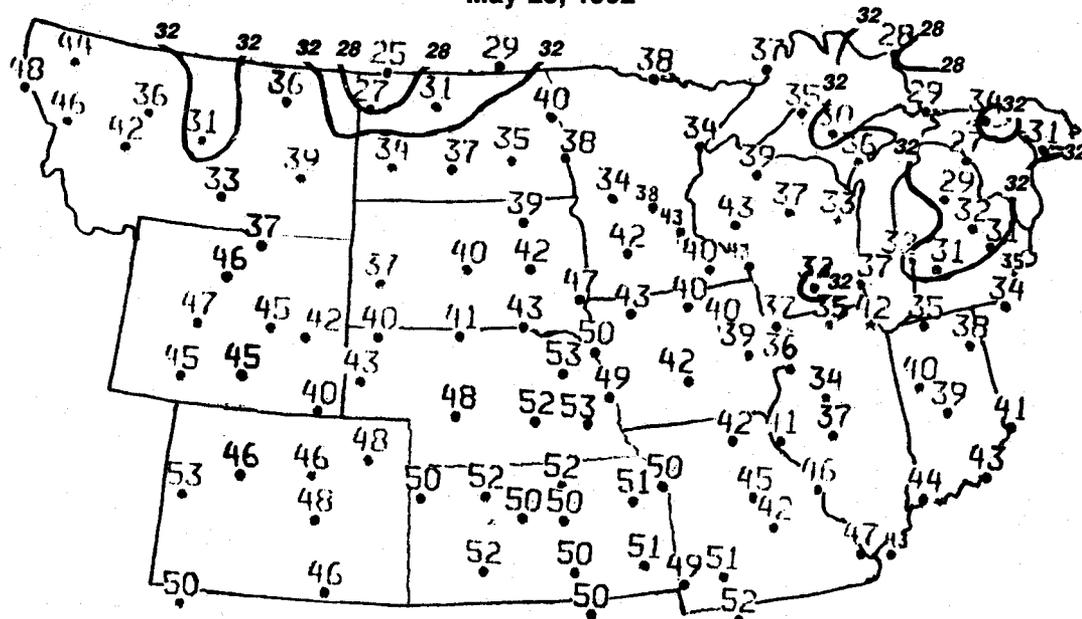
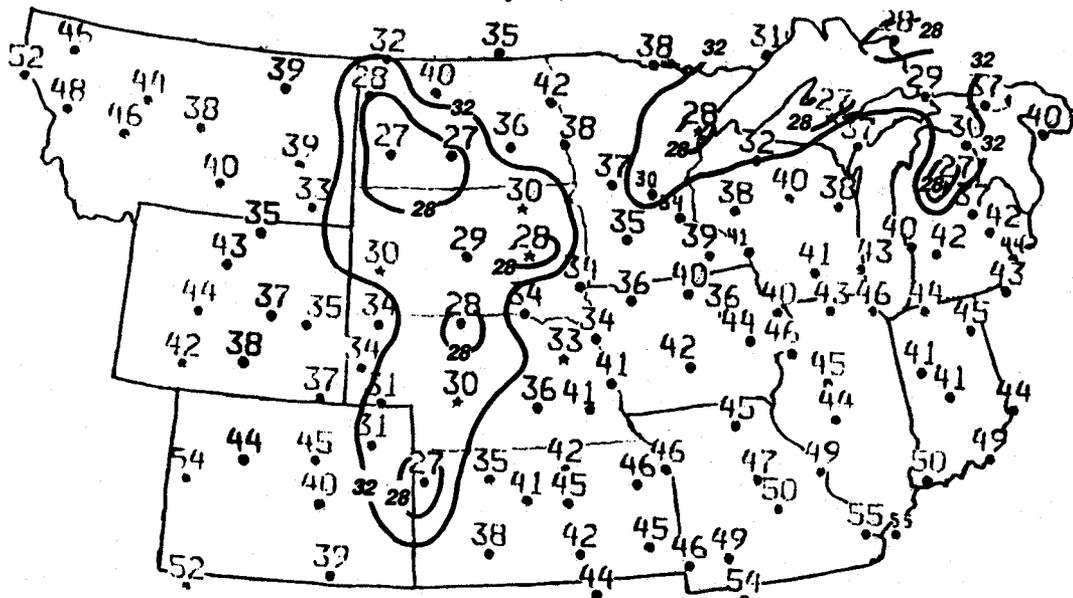


Figure 2 Minimum Temperatures (°F) through 7 a.m. CDT
May 26, 1992



NOTE: In some cases, actual minimum temperatures may be slightly lower due to additional cooling after 7 a.m. Isotherms are drawn only for 28°F and 32°F.

National Weather Data for Selected Cities

Weather Data for the Week Ending May 23, 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	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	87	61	89	52	74	3	.0	-1.0	.0	6.9	46	14.6	58	86	36	0	0	0	0	0	0	
MOBILE	88	64	90	62	76	0	.0	-1.2	.0	5.5	35	25.4	100	98	38	0	0	0	0	0	0	
MONTGOMERY	87	61	89	55	74	0	.0	-1.9	.0	6.7	51	22.7	103	93	36	0	0	0	0	0	0	
AK ANCHORAGE	59	38	65	31	49	0	.0	-1.1	.0	.7	45	2.9	88	72	34	0	0	0	0	0	0	
BARROW	34	28	38	17	31	0	.0	-1.0	.0	1.3	72	5.5	57	97	83	0	0	0	0	0	0	
FAIRBANKS	54	36	71	31	45	0	.0	-1.1	.0	1.8	172	3.3	163	82	36	0	0	0	0	0	0	
JUNEAU	57	34	63	30	46	0	.0	-1.2	.0	15.4	177	31.4	193	88	26	0	0	0	0	0	0	
KODIAK	58	38	63	34	48	0	.0	-1.2	.0	8.3	72	19.5	87	82	41	0	0	0	0	0	0	
NOME	35	31	37	29	33	0	.0	-1.1	.0	1.4	95	2.3	82	98	84	0	0	0	0	0	0	
AZ PHOENIX	91	69	102	61	80	0	.9	.8	.0	4.0	350	6.5	267	58	23	4	4	0	0	0	0	
PRESCOTT	72	48	84	40	60	0	.3	.2	.0	3.3	201	6.9	201	69	33	0	0	0	0	0	0	
TUCSON	89	59	99	50	74	-1	1.0	1.0	.3	3.3	306	6.4	251	68	24	4	4	0	0	0	0	
YUMA	96	67	103	63	82	2	.1	.1	.1	1.7	621	3.0	329	99	66	7	0	0	0	0	0	
AR FORT SMITH	80	66	86	63	73	2	2.4	1.3	1.0	10.5	90	13.4	83	99	66	0	0	0	0	6	2	
LITTLE ROCK	83	67	87	65	75	2	1.8	.6	1.3	12.2	87	16.4	75	93	67	0	0	0	0	3	1	
CA BAKERSFIELD	88	60	96	55	74	2	.0	.0	.0	1.9	114	5.6	150	59	22	3	0	0	0	0	0	
FRESNO	84	50	67	45	57	2	.0	.0	.0	6.0	66	13.7	64	90	69	0	0	0	0	1	0	
SAN JOSE	88	59	95	56	73	4	.0	.0	.0	2.3	79	9.0	130	69	21	3	0	0	0	0	0	
LOS ANGELES	72	60	73	59	66	4	.0	.0	.0	5.3	194	11.6	140	89	63	0	0	0	0	0	0	
REDDING	86	55	100	52	72	1	.0	.0	.0	5.4	62	18.5	79	83	21	2	0	0	0	0	0	
SACRAMENTO	86	53	94	50	70	1	.0	.0	.0	2.9	83	9.8	93	88	25	2	0	0	0	0	0	
SAN DIEGO	72	63	74	62	67	0	.1	.0	.1	4.8	190	9.9	164	84	62	0	0	0	0	1	0	
SAN FRANCISCO	73	54	76	51	64	0	.0	.0	.1	4.4	101	12.9	105	89	50	0	0	0	0	0	0	
CO DENVER	77	51	87	45	64	2	.2	-1.4	-1	4.3	88	5.5	91	74	32	0	0	0	0	0	0	
GRAND JUNCTION	78	53	87	50	66	2	.5	-1.3	-2	3.1	157	3.7	117	72	29	0	0	0	0	5	0	
PUEBLO	81	50	90	43	65	3	.1	-1.2	-1	2.0	72	2.2	67	68	26	1	0	0	0	2	0	
CT BRIDGEPORT	76	51	89	42	63	3	.1	-1.7	-1	6.7	66	10.8	65	78	35	0	0	0	0	1	0	
HARTFORD	83	46	95	38	65	4	.0	-1.7	-1	8.5	80	13.5	77	88	23	3	0	0	0	1	0	
DC WASHINGTON	80	53	91	43	67	-1	.3	-1.6	-3	7.4	83	12.4	86	86	39	1	0	0	0	1	0	
FL APALACHICOLA	83	67	86	63	75	0	.0	-1.7	-0	3.1	33	18.4	110	90	59	0	0	0	0	0	0	
DAYTONA BEACH	82	69	83	64	75	-1	.2	-1.7	-2	6.0	80	10.1	78	90	51	0	0	0	0	1	0	
JACKSONVILLE	80	61	84	58	71	-5	.6	-1.4	.6	14.4	153	22.8	142	99	54	0	0	0	0	2	1	
KEY WEST	84	75	85	71	80	-2	.8	-1.1	.5	5.0	99	6.5	74	85	58	0	0	0	0	4	1	
MIAMI	85	73	87	70	79	2	.2	-1.4	.2	5.7	58	8.9	64	84	50	0	0	0	0	3	0	
ORLANDO	85	67	88	65	76	-2	.1	-1.9	.1	13.5	168	17.3	129	96	47	0	0	0	0	2	0	
TALLAHASSEE	88	61	91	55	74	-1	.0	-1.2	.0	4.6	34	17.5	76	94	36	2	0	0	0	0	0	
TAMPA	88	67	90	64	78	-1	.0	-1.8	.0	3.2	43	8.3	65	96	42	0	0	0	0	1	0	
WEST PALM BEACH	83	71	86	70	77	-1	.7	-1.8	-2	6.8	67	11.8	76	86	56	0	0	0	0	6	0	
GA ATLANTA	84	62	88	55	73	2	.1	-1.9	-2	6.0	45	13.5	59	81	37	0	0	0	0	0	0	
AUGUSTA	86	54	91	46	70	-2	.2	-1.6	-2	7.2	66	16.3	86	96	36	1	0	0	0	1	0	
MACON	86	57	91	47	72	-2	.0	-1.9	.0	5.9	52	16.4	81	91	34	2	0	0	0	0	0	
SAVANNAH	85	61	89	55	73	-1	.0	-1.1	.0	6.7	64	15.5	93	95	40	0	0	0	0	1	0	
HI HILO	86	66	88	63	76	2	.0	-2.0	.0	12.7	38	15.4	27	92	58	0	0	0	0	0	0	
HONOLULU	84	72	86	71	78	1	.8	.6	.6	1.7	30	3.5	28	86	60	0	0	0	0	3	1	
KAHULUI	85	72	88	69	79	3	1.1	1.0	.5	2.4	59	5.9	53	98	66	0	0	0	0	5	0	
LIHUE	84	67	86	66	76	0	.3	-1.4	.1	7.0	70	11.4	57	91	55	0	0	0	0	3	0	
ID BOISE	82	48	92	37	65	6	.0	-1.3	.0	.8	27	2.1	36	63	19	1	0	0	0	0	0	
LEWISTON	77	48	84	38	63	3	.1	-1.2	.1	2.3	72	3.8	68	64	22	0	0	0	0	2	0	
POCATELLO	79	47	87	39	63	8	.1	-1.2	.1	1.4	48	2.3	47	68	21	0	0	0	0	2	0	
IL CHICAGO	77	50	86	40	63	3	.3	-1.4	-3	5.2	58	7.4	64	88	46	0	0	0	0	2	0	
MOLINE	81	55	88	44	68	5	.1	-1.8	-1	4.3	43	7.3	57	91	44	0	0	0	0	3	0	
PRORIA	79	57	86	47	68	5	.3	-1.5	-3	5.0	52	7.6	60	97	58	0	0	0	0	2	0	
QUINCY	76	57	82	51	67	2	.1	-1.9	-1	8.1	78	10.1	77	80	53	0	0	0	0	3	0	
ROCKFORD	80	51	89	40	66	5	.4	-1.5	-2	6.1	64	8.4	69	83	39	0	0	0	0	2	0	
SPRINGFIELD	79	60	84	50	70	5	.0	-1.7	.0	5.7	59	8.3	64	98	57	0	0	0	0	3	0	
IN EVANSVILLE	80	64	85	56	72	5	2.0	1.0	.8	8.5	71	10.9	60	98	66	0	0	0	0	7	2	
FORT WAYNE	80	55	86	48	68	6	1.3	.5	.9	8.3	91	11.4	86	93	51	0	0	0	0	3	1	
INDIANAPOLIS	80	59	84	50	70	6	.2	-1.7	-1	7.7	78	10.3	68	97	59	0	0	0	0	2	0	
SOUTH BEND	80	55	86	45	67	7	.3	-1.3	-3	5.5	61	8.9	65	90	47	0	0	0	0	2	0	
IA DES MOINES	77	55	85	49	66	2	.7	-1.2	-3	7.0	84	10.1	97	90	50	0	0	0	0	3	0	
SIOUX CITY	73	52	83	42	63	-1	.1	-1.7	-1	8.1	124	9.4	116	91	52	0	0	0	0	1	0	
WATERLOO	78	52	89	47	65	4	.2	-1.7	-1	7.5	85	10.1	95	90	41	0	0	0	0	3	0	
KS CONCORDIA	75	56	83	46	65	0	.3	-1.7	-2	6.8	96	8.4	98	96	57	0	0	0	0	4	0	
DODGE CITY	76	56	81	48	66	0	.4	-1.4	-3	3.3	58	4.1	61	97	53	0	0	0	0	2	0	
GOODLAND	78	49	87	37	64	3	.0	-1.7	.0	1.9	45	2.7	52	92	30	0	0	0	0	0	0	
TOPEKA	77	56	84	47	67	1	.2	-1.7	-2	10.1	123	12.2	120	96	54	0	0	0	0	2	0	
WICHITA	75	60	81	51	67	0	.6	-1.3	.6	7.6	103	8.7	98	95	65	0	0	0	0	2	1	
KY BOWLING GREEN	80	62	85	61	71	3	.5	-1.5	.4	9.0	71	14.1	66	99	56	0	0	0	0	2	0	
LEXINGTON	80	62	83	60	71	5	1.3	-1.3	.7	9.8	82	15.2	80	96	55	0	0	0	0	3	1	
LOUISVILLE	81	64	86	62	73	6	.5	-1.5	.2	10.5	88	14.2	76	97	59	0	0	0	0	4	0	
LA ALEXANDRIA	88	66	89	64	77	1	.0	-1.1	.0	10.5	73	23.4	99	94	41	0	0	0	0	0	0	
BATON ROUGE	88	66	90	64	77	1	.0	-1.0	.0	7.2	52	24.4	103	95	44	1	0	0	0	0	0	
LAKE CHARLES	86	68	88	67	77	1	.5	-1.8	.5	11.9	106	26.8	139	100	49	0	0	0	0	2	1	
NEW ORLEANS	87	64	89	61	76	0	.3	-1.8	-3	9.7	75	28.4	122	100	48	0	0	0	0	2	0	

Based on 1951-80 normals.

Weather Data for the Week Ending May 23, 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	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	TEMP. °F		PRECIP.	
																		.01 INCH OR MORE	.50 INCH OR MORE	.01 INCH OR MORE	.50 INCH OR MORE
SHREVEPORT	87	66	88	62	76	2	.3	-.7	.3	10.5	87	21.5	109	99	52	0	0	2	0	0	0
ME CARIBOU	80	49	93	32	64	12	4	-.6	4	6.2	88	12.7	109	71	23	0	0	2	1	0	0
PORTLAND	76	45	90	37	61	6	4	-.7	4	6.7	85	14.9	84	81	28	0	0	2	1	0	0
MD BALTIMORE	80	50	91	38	65	0	0	-.7	0	7.5	79	11.3	72	83	37	0	0	0	0	0	0
SALISBURY	80	46	93	36	63	-2	0	-.8	0	7.2	74	13.2	86	95	46	0	0	0	0	0	0
MA BOSTON	77	55	92	45	66	6	6	-.8	6	7.1	68	12.5	68	71	31	0	0	0	0	0	0
CHATHAM	64	47	78	40	55	1	1	-.8	1	7.6	70	11.1	57	94	36	0	0	0	0	0	0
MI ALPENA	75	40	87	29	57	3	3	-.1	3	5.2	80	9.6	90	82	42	0	0	0	0	0	0
DETROIT	79	51	87	42	65	5	5	-.4	5	8.3	107	11.6	102	99	44	0	0	0	0	0	0
FLINT	79	50	86	40	64	6	6	-.3	6	7.5	104	10.2	105	92	41	0	0	0	0	0	0
GRAND RAPIDS	79	49	86	39	64	4	4	-.1	4	8.5	102	11.1	93	90	42	0	0	0	0	0	0
HOUGHTON LAKE	75	44	85	32	60	4	4	-.6	4	5.4	83	8.0	87	84	36	0	0	0	0	0	0
LANSING	79	47	85	37	63	4	4	1.6	4	9.1	130	11.8	118	89	45	0	0	0	0	0	0
MARQUETTE	71	42	86	31	57	5	5	-.4	5	6.4	68	10.4	77	81	45	0	0	2	2	1	0
MUSKEGON	76	48	83	38	62	4	4	-.3	4	5.9	77	8.6	74	86	40	0	0	0	0	0	0
SAULT ST. MARIE	74	42	86	37	58	7	7	-.3	7	6.4	85	9.5	91	78	43	0	0	0	0	0	0
MN ALEXANDRIA	74	50	89	38	62	5	5	-.3	5	5.5	85	9.5	94	86	47	0	0	0	0	0	0
DULUTH	71	47	83	38	59	7	7	-.4	7	5.4	98	6.7	94	86	47	0	0	0	0	0	0
INT'L FALLS	72	46	87	30	59	6	6	-.5	6	6.6	106	7.7	93	87	45	0	0	0	0	0	0
MINNEAPOLIS	77	52	87	44	64	4	4	-.5	4	4.0	91	6.4	107	88	45	0	1	3	3	0	0
ROCHESTER	74	50	84	43	62	3	3	-.2	3	4.3	72	5.6	72	85	41	0	0	0	0	0	0
MS GREENWOOD	90	66	91	63	78	4	4	1.2	4	7.2	105	8.8	105	92	51	0	0	0	0	0	0
JACKSON	90	63	92	60	77	3	3	-.1	3	9.0	58	14.6	58	94	44	5	0	0	2	1	0
MERIDIAN	90	63	92	58	76	3	3	-.9	3	3.7	25	11.8	48	94	37	3	0	0	1	0	0
MO CAPE GIRARDEAU	81	65	85	53	73	3	3	1.0	3	9.9	65	20.9	84	89	35	4	0	0	0	0	0
COLUMBIA	77	60	85	53	68	2	2	-.5	2	7.2	67	9.7	67	99	66	0	0	0	0	4	0
KANSAS CITY	78	56	85	45	67	-1	1	-.7	1	9.6	104	12.8	109	98	56	0	0	0	0	3	0
SAINT LOUIS	79	64	82	53	72	4	4	-.8	4	7.3	77	10.3	77	95	62	0	0	0	0	6	0
SPRINGFIELD	77	62	84	54	70	3	3	1.0	0	6.5	61	9.6	66	99	70	0	0	0	0	4	1
MT BILLINGS	77	48	92	43	63	6	6	-.7	6	4.3	91	4.5	70	81	35	2	0	0	2	1	0
GLASGOW	76	46	94	34	61	5	5	-.5	5	1.4	64	1.7	59	77	30	2	0	0	1	0	0
GREAT FALLS	71	42	85	29	57	2	2	-.3	2	2.4	56	3.1	51	74	29	0	1	1	1	0	0
HAVRE	75	41	91	30	58	2	2	-.4	2	.6	19	.8	19	73	27	1	1	1	1	0	0
HELENA	76	45	87	33	61	7	7	-.3	7	1.4	45	1.7	42	73	24	0	0	0	2	0	0
KALISPELL	71	41	78	29	56	3	3	-.6	3	2.7	85	4.7	80	86	32	0	2	2	1	0	0
MILES CITY	80	50	94	38	65	6	6	-.3	6	3.9	106	4.0	82	76	32	2	0	0	0	0	0
MISSOULA	76	41	81	33	58	5	5	-.2	5	3.1	103	3.6	70	83	25	0	0	0	2	0	0
NE GRAND ISLAND	74	54	81	43	64	1	1	-.8	0	6.7	97	9.5	115	94	53	0	0	0	2	0	0
LINCOLN	77	54	83	43	65	1	1	-.4	1	5.2	69	7.6	81	94	53	0	0	0	3	0	0
NORFOLK	75	54	84	45	64	2	2	-.7	2	5.0	79	7.2	92	87	50	0	0	0	2	0	0
NORTH PLATTE	75	49	83	36	62	2	2	-.6	2	5.1	95	7.4	118	91	41	0	0	0	1	0	0
OMAHA	74	55	83	44	65	0	0	-.9	0	8.4	104	10.9	112	88	61	0	0	0	4	0	0
SCOTTSBLUFF	80	48	93	36	64	5	5	1.0	4	3.1	72	4.8	92	79	31	3	0	0	2	1	0
VALENTINE	79	48	95	30	63	4	4	-.3	3	2.6	55	3.4	60	85	32	1	1	2	2	0	0
NV ELY	73	35	80	27	54	3	3	-.2	3	1.8	67	3.0	73	61	17	0	2	2	0	0	0
LAS VEGAS	89	65	97	62	77	2	2	-.0	0	4.9	655	6.6	392	35	15	3	0	0	0	0	0
RENO	79	44	87	41	62	6	6	-.2	0	.8	44	1.3	34	56	14	0	0	0	0	0	0
WINNEMUCCA	80	42	88	34	61	5	5	-.2	0	1.1	56	1.4	40	47	14	0	0	0	0	0	0
NE CONCORD	83	40	94	31	62	5	5	-.7	0	6.1	75	9.4	69	97	22	3	1	0	0	0	0
NJ ATLANTIC CITY	77	42	91	28	60	-2	2	-.7	0	6.0	64	9.1	56	90	34	1	2	0	0	0	0
NM ALBUQUERQUE	76	53	86	51	65	-2	7	-.6	2	2.2	180	3.0	150	85	33	0	0	0	5	0	0
CLOVIS	74	53	80	52	63	-4	2.0	1.5	1.2	4.0	140	6.2	164	92	40	0	0	0	3	1	0
ROSWELL	80	56	89	53	68	-3	3.3	3.1	1.6	4.3	336	5.9	280	96	42	0	0	0	6	2	0
NY ALBANY	81	46	90	36	64	5	5	-.8	0	6.1	74	9.3	71	88	26	2	0	0	0	0	0
BINGHAMTON	76	48	85	42	62	5	5	-.7	0	9.0	107	12.6	95	76	33	0	0	0	1	0	0
BUFFALO	79	50	84	41	65	7	7	1.0	4	5	117	14.0	103	91	34	0	0	0	3	0	0
NEW YORK	80	54	94	48	67	4	4	-.8	0	6.8	66	9.6	58	71	25	2	0	0	0	0	0
ROCHESTER	79	48	86	38	64	5	5	-.4	2	8.7	124	12.1	103	92	33	0	0	0	3	0	0
SYRACUSE	79	48	88	40	64	5	5	-.5	3	9.7	112	14.9	106	88	34	0	0	0	2	0	0
NC ASHEVILLE	77	51	84	43	64	-1	1.3	-.4	9	12.9	115	19.7	111	97	44	0	0	0	2	1	0
CHARLOTTE	83	60	90	53	71	2	2	-.8	0	10.0	93	17.6	96	83	34	1	0	0	0	0	0
GREENSBORO	80	53	88	44	67	-1	1	-.7	1	9.8	104	16.4	100	92	38	0	0	0	2	0	0
HATTERAS	75	58	81	50	67	-2	1	-.9	1	11.3	113	20.0	105	95	57	0	0	0	1	0	0
NEW BERN	90	55	90	45	67	-3	4	-.6	3	6.2	63	14.9	83	95	44	1	0	0	2	0	0
RALEIGH	80	53	89	44	66	-2	4	-.5	2	5.8	62	11.8	72	96	41	0	0	0	3	0	0
WILMINGTON	81	57	88	50	69	-3	0	1.0	0	12.2	122	21.4	124	92	45	0	0	0	1	0	0
ND BISMARCK	76	46	90	28	61	4	4	-.4	2	1.9	51	2.6	55	85	40	2	1	2	2	0	0
FARGO	74	48	93	33	61	3	3	-.8	3	3.8	88	5.2	99	84	42	1	0	0	4	1	0
GRAND FORKS	72	48	89	35	60	4	4	1.4	9	4.5	129	5.5	116	82	42	0	0	0	2	1	0
WILLISTON	75	44	93	32	59	3	3	-.2	2	3.7	119	4.3	105	86	36	2	1	2	0	0	0
OH AKRON-CANTON	78	52	84	46	65	5	5	-.6	2	9.0	98	12.9	92	87	45	0	0	0	2	1	0
CINCINNATI	79	60	84	57	70	5	5	1.0	1	6	90	12.9	79	97	59	0	0	0	3	1	0
CLEVELAND	79	52	87	45	66	5	5	1.5	8	1.2	8.9	14.8	110	90	47	0	0	0	2	1	0
COLUMBUS	80	56	86	50	68	5	5	-.9	1	7.7	82	10.3	72	96	56	0	0	0	3	1	0

Based on 1951-80 normals.

Weather Data for the Week Ending May 23, 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	.01 INCH OR MORE	.50 INCH OR MORE
DAYTON	81	58	86	50	69	6	1.4	.6	.5	10.3	112	14.3	103	95	57	0	0	0	3	1		
TOLEDO	80	51	88	43	66	5	1.2	.6	1.1	8.3	107	11.7	101	91	43	0	0	0	2	1		
YOUNGSTOWN	79	49	85	43	64	5	1.5	.2	.3	8.7	95	12.5	89	91	41	0	0	0	2	0		
OK OKLAHOMA CITY	75	64	80	59	69	0	1.6	.3	.7	7.7	85	10.2	89	97	70	0	0	0	5	1		
TULSA	78	66	84	62	72	1	1.3	.1	.9	10.7	96	12.5	88	97	66	0	0	0	4	1		
OR ASTORIA	64	45	73	39	54	1	T	.6	T	9.2	65	24.2	74	90	56	0	0	0	0	0		
BURNS	76	37	84	30	57	3	T	.1	T	1.2	56	2.3	49	70	15	0	2	2	0	0		
MEDFORD	81	48	92	37	64	5	1.3	1.0	1.0	2.8	75	4.3	46	94	28	1	0	0	4	1		
PENDLETON	76	46	84	39	61	1	T	.2	T	1.5	53	2.9	52	68	22	0	0	2	0	0		
PORTLAND	77	49	87	40	63	5	T	.4	T	5.8	78	14.2	81	86	35	0	0	0	1	0		
SALEM	76	43	86	33	60	4	T	.4	T	5.3	65	14.5	73	87	31	0	0	0	1	0		
PA ALLENTOWN	80	50	93	40	65	4	1.1	.7	.1	6.9	67	10.2	60	87	32	2	0	0	1	0		
ERIE	77	53	86	40	65	8	.7	.1	.4	7.1	81	11.6	88	79	44	0	0	0	3	0		
HARRISBURG	79	53	89	42	66	2	T	.8	T	9.1	97	11.8	77	92	60	0	0	0	1	0		
PHILADELPHIA	83	53	94	46	68	4	T	.7	T	5.7	59	7.8	50	73	28	2	0	0	0	0		
PITTSBURGH	81	53	85	47	67	5	T	.8	T	7.3	77	11.2	76	84	35	0	0	0	1	0		
SCRANTON	80	48	90	40	64	4	1.1	.7	.0	6.1	77	8.8	71	82	30	1	0	2	0	0		
RI PROVIDENCE	80	48	94	40	64	4	T	.8	T	7.3	67	14.2	76	81	25	3	0	0	0	0		
SC CHARLESTON	84	61	89	56	72	-1	1.4	.7	.7	7.2	72	14.5	86	94	38	0	0	0	2	0		
COLUMBIA	86	56	89	45	71	-2	T	.9	T	8.2	71	15.5	78	95	33	0	0	0	0	0		
FLORENCE	86	56	92	49	71	-1	1.1	.7	.2	6.2	66	11.7	71	87	33	1	0	2	0	0		
GREENVILLE	81	55	88	45	68	-2	1.3	.6	.0	13.7	104	22.4	102	92	40	0	0	0	2	0		
SD ABERDEEN	77	49	96	34	63	5	1.6	.0	.6	1.7	36	2.9	46	88	40	1	1	0	1	0		
HURON	78	51	91	39	65	6	1.1	.6	.1	3.1	60	5.0	78	86	42	1	0	0	1	0		
RAPID CITY	78	46	93	32	62	5	1.8	.1	.1	4.4	90	4.8	81	78	34	3	1	1	2	0		
STOUK FALLS	75	53	84	39	64	4	T	.8	T	6.0	96	8.5	110	84	47	0	0	0	0	0		
TN CHATTANOOGA	83	58	87	51	71	2	2	.7	.1	8.3	60	17.3	72	100	42	0	0	0	2	0		
KNOXVILLE	83	59	85	51	71	2	T	.8	T	8.8	73	16.0	76	100	46	0	0	0	0	0		
MEMPHIS	88	69	92	68	79	6	2.1	1.0	1.7	10.6	71	14.7	61	91	45	1	0	0	3	1		
NASHVILLE	84	64	86	58	74	4	.9	.7	.3	7.0	52	12.5	57	94	48	0	0	0	1	0		
TX ABILENE	80	63	86	56	72	-2	1.2	.8	.6	4.0	67	9.4	119	96	54	0	0	0	5	1		
AMARILLO	76	55	81	49	66	-2	1.8	.5	.5	4.0	101	4.8	96	100	45	0	0	0	3	3		
AUSTIN	83	66	85	61	75	-1	2.5	1.1	1.1	14.6	183	26.0	215	99	61	0	0	0	5	3		
BRAMMONT	85	68	87	66	77	1	T	1.1	T	10.3	94	27.9	144	99	58	0	0	0	1	0		
BROWNSVILLE	86	71	86	68	78	-2	1.2	.4	.1	6.8	188	12.3	193	96	60	0	0	0	3	0		
CORPUS CHRISTI	82	70	85	67	76	-2	1.5	.7	1.4	11.1	217	20.7	252	98	71	0	0	0	4	1		
DEL RIO	84	67	88	65	76	-3	1.8	.3	.5	6.5	160	12.2	224	82	48	0	0	0	4	1		
EL PASO	83	58	91	56	70	-3	2.9	2.9	2.4	4.8	763	6.1	421	88	31	1	0	6	1	1		
FORT WORTH	81	67	87	63	74	0	2.4	1.5	1.2	11.2	113	16.9	125	98	63	0	0	0	4	2		
GALVESTON	81	73	84	67	77	0	.6	.2	.6	8.4	116	25.2	200	86	68	0	0	0	2	1		
HOUSTON	84	68	88	66	76	0	.8	.3	.4	14.2	142	27.9	166	97	58	0	0	0	3	0		
LUBBOCK	79	58	87	56	68	-2	2.9	2.2	1.3	5.8	153	9.2	193	100	50	0	0	0	4	2		
MIDLAND	81	57	86	54	69	-5	3.0	2.5	2.7	5.5	193	9.3	243	94	45	0	0	0	2	1		
SAN ANGELO	84	62	88	57	73	-2	1.3	.3	.2	2.7	60	8.4	142	95	42	0	0	0	2	0		
SAN ANTONIO	82	67	86	65	75	-2	4.3	3.4	1.6	15.1	221	27.1	265	97	64	0	0	0	5	4		
VICTORIA	83	69	87	67	76	-2	2.7	1.6	1.1	19.7	271	33.8	296	97	65	0	0	0	4	2		
WACO	84	66	89	61	75	0	1.8	.7	.7	8.5	90	19.3	146	98	60	0	0	0	4	2		
WICHITA FALLS	80	65	84	62	73	-1	1.5	.5	1.0	4.5	56	7.4	74	98	64	0	0	0	5	1		
UT CEDAR CITY	71	47	81	39	59	1	1.6	.4	.3	2.9	108	4.4	106	74	34	0	0	0	3	0		
SALT LAKE CITY	79	55	89	49	67	7	.9	.6	.9	3.9	77	5.9	77	71	30	0	0	0	2	1		
VT BURLINGTON	81	45	91	34	63	6	1	1	0	5.7	80	8.9	83	90	27	3	0	0	2	0		
VA NORFOLK	75	54	89	50	65	-3	T	.8	T	5.8	62	12.4	75	93	47	0	0	0	2	0		
RICHMOND	80	50	89	43	65	-2	1.7	.9	1.7	11.4	125	15.8	102	97	41	0	0	0	2	1		
ROANOKE	78	50	88	41	64	-2	1.3	.5	.3	12.1	129	18.3	119	93	43	0	0	0	2	0		
WA QUILLAYUTE	65	42	77	34	54	2	0	1.1	0	16.6	72	47.7	96	94	47	0	0	0	0	0		
SEATTLE-TACOMA	72	48	82	42	60	4	T	.3	T	5.9	83	16.8	96	83	35	0	0	0	0	0		
SPOKANE	74	45	82	35	60	4	T	.3	T	1.1	32	5.0	67	67	22	0	0	0	0	0		
YAKIMA	77	43	86	33	60	2	0	1.1	0	1.1	77	2.0	56	77	21	0	0	0	0	0		
WV BECKLEY	77	54	83	44	65	4	1	1	1	10.3	103	14.6	87	82	42	0	0	0	2	0		
CHARLESTON	81	56	86	46	69	4	1.4	.5	.3	11.0	108	15.7	93	92	46	0	0	0	3	0		
HUNTINGTON	82	58	87	50	70	4	T	.9	T	10.3	99	14.3	86	96	46	0	0	0	3	0		
PARKERSBURG	80	55	85	51	68	3	1.7	1.1	.4	9.1	96	11.8	78	92	47	0	0	0	3	0		
WI GREEN BAY	76	46	86	37	61	4	1.6	.2	.3	7.1	102	8.3	91	93	47	0	0	0	3	0		
LACROSSE	77	53	86	45	65	4	1.2	.7	.2	8.2	108	9.9	105	86	43	0	0	0	1	0		
MADISON	79	49	88	39	64	5	1.8	.1	.7	6.2	81	8.3	85	92	39	0	0	0	3	1		
MILWAUKEE	73	49	86	40	61	5	1.5	.0	.5	5.6	71	8.3	76	85	47	0	0	0	1	1		
WAUSAU	73	47	82	40	60	3	1.3	.4	1.3	9.5	125	10.7	113	94	43	0	0	0	2	1		
WY CASPER	75	45	89	31	60	6	1.7	.2	.5	2.4	59	2.9	57	74	33	0	1	3	0	0		
CHEYENNE	71	44	83	38	58	4	1.3	.3	.3	3.0	74	3.4	71	84	35	0	0	0	4	0		
LANDER	74	46	86	39	60	6	1.6	.0	.4	3.5	64	4.1	63	75	28	0	0	0	2	0		
SHERIDAN	75	45	92	34	60	6	1.9	.4	.4	4.1	84	4.3	67	86	38	2	0	0	3	1		

Based on 1951-80 normals.

National Agricultural Summary

May 18 - 24, 1992

HIGHLIGHTS: Drying soils continued to concern agricultural producers in the Northwest, Rocky Mountains, Great Plains, middle Mississippi Valley, and Southeast as rainfall was generally light and spotty. Parts of Arizona, Texas, and southern New Mexico, conversely, experienced hail and flood damage to some crops. Sharply colder weather from Canada delved into the northern Great Plains at the end of the week.

SMALL GRAINS: Winter wheat condition for the 19 major producing States continued to decline, as lack of soil moisture further diminished crop prospects in the Northwest, Rocky Mountains, and Great Plains. Crop condition rated good in California, the Gulf, and the Southeast. Winter wheat heading continued to advance earlier than normal and was evident on 78 percent (%) of the acreage in the 19 major States, 5 percentage points ahead of last year, and 8 points ahead of the 5-year average. Heading was complete in some Southern States, advancing rapidly in the central Great Plains and middle Mississippi Valley, and beginning in the Northern States. Harvest was beginning in the southernmost States. Some fields in the Texas Blacklands had significant lodging due to heavy rain and wind, and heavy infestations of armyworms were reported in southeast Kansas and northwestern and north-central Arkansas. Spring wheat planting in the five major States of Idaho, Minnesota, Montana, and North and South Dakota was 97% complete, 1 point ahead of last year and matching the historic average. Spring wheat emergence reached 83%, compared with 81% last year and 84% average. Spring wheat emergence remained behind schedule in Minnesota, and ahead of schedule in Idaho. Spring wheat condition rated mostly good to fair in the major States but drying soils resulted in lower ratings. Emergence of spring barley was well advanced in the Rocky Mountains, Minnesota, and North Dakota. Emergence of oats was also well along and harvest was beginning in the Southeast.

CORN: Corn planting was nearly complete with 96% of the acreage planted in the 17 major producing States, 13 points ahead of last year and 7 points ahead of the average. Planting progress was ahead of, or equal to, the average in all major States. Crop condition rated mostly fair in Georgia and Missouri, and mostly good in all other major States. Some corn was beginning to silk in the extreme Southeast and tasseling was beginning in central and southeastern Texas.

SOYBEANS: Soybean planting also continued to progress much earlier than normal, reaching 68% complete in the 19 major producing States, 28 points ahead of last year and 19 points ahead of the historic average. Rapid progress was again recorded in the Corn Belt, and planting intensified in many of the southern producing States.

COTTON: Cotton planting reached 79% complete in the 14 major producing States, 22 points ahead of last year and 10 points ahead of the average. Planting was completed in California and Louisiana, and nearly so in the southern Mississippi and Tennessee Valleys and in the Gulf region. Some rain and hail damage was reported in eastern Arizona and southern New Mexico.

GRAIN SORGHUM: Planting of grain sorghum advanced sharply in the Great Plains and reached 57% complete in the 12 major States, compared with 41% last year and the average of 46%. Planting was well along in the Delta and gaining momentum in the High Plains.

RICE: Rice planting was nearly over with 96% complete in the five major producing States, 24

points ahead of last year, and 9 points ahead of the historic average. Planting was very nearly complete in the Delta and well along in California. Eighty-three percent of the crop had emerged, compared with 55% last year and 71% average. Crop condition improved with rains in Mississippi and rated mostly fair in Arkansas and Mississippi, and mostly good in California, Louisiana, and Texas.

OTHER FIELD CROPS: Haying was active in the East, West, and Central regions, and the first hay cutting began in Minnesota. Spring potato harvest increased in California's Kern-Tulare district. Fall potato seeding neared completion from Washington to Minnesota, and was well along from Michigan to Maine. Dry bean planting continued to gain momentum in the Rocky Mountains and North Central States. Sugar beet planting was virtually complete in the Northern States, and harvest of over-wintered beets was winding down in California. Sunflower and flaxseed planting continued to advance in Minnesota and the Dakota's. Peanut planting was well along in the Southeast, but rains delayed seeding in Oklahoma and Texas, and some recently planted fields in central Texas were damaged by heavy rains. Sweetpotato planting continued in the Delta and North Carolina.

FRUIT AND NUTS: Oranges, grapefruit, tangerines, peaches, and grapes were being harvested in western and central Arizona. California's navel orange harvest was drawing to a close, while Valencia orange, desert area lemon, grapefruit, and avocado harvests continued. Florida citrus groves needed rain, and orchards were showing some stress. Florida's new crop fruit remained in good condition and late orange and grapefruit harvests were slowing. Apples, pears, and peaches were in full bloom in New England.

VEGETABLES: Melon, lettuce, and dry onion harvests were active in Arizona. Asparagus cutting was nearly finished in the Sacramento Valley and continued very light in the Sacramento Delta and Salinas Valley. Snap bean picking gained momentum in the central San Joaquin Valley. California broccoli, cauliflower, and lettuce continued, while fresh market tomato and garlic harvests got underway. Southern Florida vegetable harvests were nearly complete, and harvests were active in the central and northern parts of the State. Florida's volume leaders were watermelons, tomatoes, sweet corn, cucumbers, and peppers. Georgia's onion harvest neared completion. Sweet corn and green pea planting continued in Minnesota. New Jersey early-season vegetable harvests were active although some egg plant, peppers, and tomatoes were damaged by frost. Lettuce harvest was slowing in New Mexico. Spring onions remaining in fields in the Rio Grande Valley were largely lost due to continued flooding. Asparagus harvest continued in Washington.

PASTURES AND LIVESTOCK: Dry weather across much of the Great Plains and the West continued to hamper range and pasture growth. Stockwater supplies were becoming a problem in some areas. Beef cattle breeding season remained underway in most regions.

Crop Progress

for the Week Ending May 24, 1992

COTTON (Percent Planted)

	Current	Last Wk	1991	Avg.
AL	96	92	74	91
AZ	98	93	97	99
AR	94	88	68	86
CA	100	99	100	100
GA	75	71	70	86
LA	100	99	59	82
MS	95	92	45	81
MO	95	93	64	85
NM	93	88	96	96
NC	89	63	97	82
OK	39	39	42	33
SC	92	72	84	87
TN	94	88	41	79
TX	64	52	44	51
14 States	79	71	57	69

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

CORN (Percent Planted)

	Current	Last Wk	1991	Avg.
CO	95	90	77	86
GA	100	100	100	100
IL	99	98	95	92
IN	97	89	90	84
IA	99	97	65	91
KS	99	99	96	95
KY	91	85	83	80
MI	85	60	80	85
MN	98	94	71	89
MO	96	90	77	84
NE	100	98	94	95
NC	98	94	99	93
OH	95	83	98	87
PA	67	44	78	59
SD	98	93	78	83
TX	99	98	99	99
WI	85	67	78	84
17 States	96	91	83	89

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

GRAIN SORGHUM (Percent Planted)

	Current	Last Wk	1991	Avg.
AR	95	91	54	97
CO	19	15	18	15
IL	59	36	40	48
KS	35	25	20	25
LA	89	85	57	76
MS	88	84	42	73
MO	72	54	21	46
NE	68	36	43	44
NM	27	20	35	NA
OK	30	24	16	23
SD	41	19	7	19
TX	77	73	73	71
12 States	57	45	41	NA
Excl. States with NA	57	46	41	46

NA - not available.

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

RICE (Percent Planted)

	Current	Last Wk	1991	Avg.
AR	99	97	66	83
CA	80	50	80	84
LA	57	93	79	91
MS	100	98	40	84
TX	95	93	95	99
5 States	96	90	72	87

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

RICE (Percent Emerged)

	Current	Last Wk	1991	Avg.
AR	88	77	46	64
CA	45	10	50	52
LA	92	87	72	83
MS	90	80	28	74
TX	78	68	84	92
5 States	83	70	55	71

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

SOYBEANS (Percent Planted)

	Current	Last Wk	1991	Avg.
AL	38	25	14	32
AR	31	18	11	22
GA	26	14	20	40
IL	87	66	66	65
IN	81	51	68	54
IA	87	63	24	59
KS	40	25	35	30
KY	30	21	17	27
LA	61	30	5	26
MI	55	20	40	45
MN	86	62	37	63
MS	30	26	7	24
MO	58	31	15	36
NE	74	42	50	52
NC	32	17	35	28
OH	75	42	85	60
SC	23	13	15	23
SD	67	37	40	48
TN	28	16	4	21
19 States	68	45	40	49

These 19 States produced 95% of the 1991 soybean crop.

SPRING WHEAT (Percent Planted)

	Current	Last Wk	1991	Avg.
ID	100	99	96	98
MN	94	83	99	98
MT	96	95	93	96
ND	97	88	96	96
SD	100	100	100	100
5 States	97	90	96	97

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

SPRING WHEAT (Percent Emerged)

	Current	Last Wk	1991	Avg.
ID	98	91	75	87
MN	76	52	95	97
MT	76	71	65	76
ND	83	62	79	79
SD	100	98	100	100
5 States	83	68	81	84

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

**WINTER WHEAT
(Percent Headed)**

	Current	Last Wk	1991	Avg.
AR	99	98	99	100
CA	99	98	99	99
CO	80	54	8	17
GA	100	100	100	100
ID	12	4	0	5
IL	79	48	78	85
IN	48	22	73	59
KS	100	90	98	90
MI	0	0	10	5
MO	85	62	96	92
MT	2	1	0	0
NE	90	25	43	45
NC	93	90	99	95
OH	15	1	70	54
OK	100	100	99	98
OR	58	34	25	38
SD	14	1	4	10
TX	92	86	94	91
WA	26	16	29	19
19 States	78	66	73	70

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

**Crop Condition
(Percent)**

for the Week Ending May 24, 1992

RICE

State	VP	P	F	G	Ex
AR	0	12	67	21	0
CA	0	0	5	85	10
LA	0	3	30	67	0
MS	0	0	65	35	0
TX	0	0	14	72	14
5 State	0	6	45	46	3
Prev Week	2	8	48	39	3
Prev Year	4	13	46	36	1

SPRING WHEAT

State	VP	P	F	G	Ex
ID	1	6	35	50	8
MN	1	2	21	69	7
MT	3	22	28	45	2
ND	0	0	26	70	4
SD	2	12	44	40	2
5 State	1	6	28	61	4
Prev Week	2	3	23	68	4
Prev Year	0	1	12	75	12

WINTER WHEAT

State	VP	P	F	G	Ex
AR	0	0	13	58	29
CA	0	0	5	70	25
CO	13	21	41	23	2
GA	0	1	43	53	3
ID	0	5	41	42	12
IL	13	7	36	42	2
IN	6	19	50	24	1
KS	6	24	46	19	5
MI	1	9	30	50	10
MO	6	15	61	17	1
MT	15	28	27	28	2
NE	3	51	37	9	0
NC	0	0	6	91	3
OH	4	13	35	42	6
OK	0	2	63	35	0
OR	1	7	45	45	2
SD	8	26	46	19	1
TX	0	3	30	54	13
WA	0	0	79	21	0
19 State	4	15	44	32	5
Prev Week	4	14	43	34	5
Prev Year	3	12	42	36	7

CORN

State	VP	P	F	G	EX
CO	1	3	21	66	9
GA	5	13	52	30	0
IL	0	0	23	71	6
IN	0	3	28	62	7
IA	0	3	18	64	15
KS	0	2	34	50	14
KY	0	1	22	69	8
MI	2	3	25	50	20
MN	0	2	27	63	8
MO	0	4	57	38	1
NE	0	5	36	52	7
NC	0	0	20	76	4
OH	0	2	23	59	16
PA	NA	NA	NA	NA	NA
SD	1	4	28	57	10
TX	0	0	12	61	27
WI	0	2	25	65	8
17 State	0	3	26	61	10
Prev Week	N/A	N/A	N/A	N/A	N/A
Prev Year	N/A	N/A	N/A	N/A	N/A

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

State Summaries of Weather and Agriculture

These summaries provide brief descriptions of crop and weather conditions important on a national scale. More detailed data are available in Weather and Crop Bulletins published each Monday by NASS State Statistical Offices in cooperation with the National Weather Service.

ALABAMA: Rainfall mostly light to none; over 0.50 in. isolated areas. Temperatures 1 to 3° above normal north, west central; near to slightly below normal elsewhere.

Days suitable for fieldwork 6.6. Soil moisture 42% very short, 56% short, 2% adequate. Row crops continued to suffer from drought stress; poor stands cotton, peanuts in southern area. Farmers irrigating where possible. Acreage intended for spring planting 97% prepared, 85% 1991, 95% avg. Fieldwork progress 72% on schedule; 21% behind normal, 6 days avg.; 7% ahead of normal, 11 days avg. Corn 2% silked, 7% 1991, 15% avg.; 8% very poor, 40% poor, 38% fair, 14% good. Sorghum 42% planted, 36% 1991, 51% avg.; 11% very poor, 15% poor; 50% fair, 24% good. Cotton 96% planted, 74% 1991, 91% avg.; 2% very poor, 9% poor, 39% fair, 50% good. Peanuts 79% planted, 75% 1991, 86% avg.; 1% very poor, 34% poor, 52% fair, 13% good. Soybeans 38% planted, 14% 1991, 32% avg. Winter wheat 78% turning color, 85% 1991, 79% avg.; 12% harvested, 5% 1991, 20% avg.; 3% poor, 36% fair, 57% good, 4% excellent. First hay 59% harvested, 18% 1991, 42% avg. Pastures 15% very poor, 31% poor, 34% fair, 20% good. Livestock 2% poor, 50% fair, 45% good, 3% excellent. Activities: Harvesting wheat, hay, peaches, spring potatoes; planting, cultivating row crops; irrigating fields; mowing pastures; scouting cotton; repairing fences, machinery; care of livestock, poultry, catfish.

ALASKA: Railbelt wide, warm, seasonal temperatures dominated after a later than normal cold Spring. High temperatures 7° cooler than normal to 7° above normal. Lows 1 to 3° below normal.

Days suitable for fieldwork 5.0. Topsoil 14% short, 77% adequate, 9% surplus. Subsoil 10% short, 79% adequate, 11% surplus. Fieldwork progress on schedule to 3 weeks behind in the Tanana Valley due to wet fields, lingering snow. Oat seeding 60% complete, barley seeding 50% complete, commercial potato planting 50% complete. Growth prospects for hayfields, pasture 4% poor, 29% fair, 43% good, 24% excellent.

ARIZONA: Light showers, 17th, mountains. Scattered showers and thunderstorms; 18th east, 19th central, east, 20th statewide except far west, 21st statewide, 22nd north, east, 23rd statewide. Temperatures 3° below to 3° above normal. Extremes 32°; 91° higher elevations, 50°; 103° deserts.

Cotton planted 98%, 97% 1991, 99% avg. Rain, hail damage, east. Cotton squaring 7%, 2% 1991. Cotton condition good, weeds, insects light. Alfalfa condition good to excellent; weeds, insects mostly light statewide; harvest, active. Moderate rain damage east. Small grains turning color, 96%, 95% 1991, 94% avg.; harvested, 8%, 4% 1991. Rain, hail damage south, east; mostly excellent. Oranges, grapefruit harvested west, central. Grapes, watermelon, cantaloupe, honeydew harvested, west. Red, chipper potatoes, dry onions, tangerines, peaches, mixed vegetables harvested, central. Lettuce harvest, east.

ARKANSAS: Temperatures above normal statewide, scattered showers throughout week, heaviest in northwest, east central. Extremes 55°; 91°. Rainfall 0.14 to 3.83 in.

Days suitable for fieldwork 5. Soil moisture 37% short, 60% adequate, 3% surplus. Main farming activities: Planting, land preparation, fertilizing rice, side dressing corn, pasture weed control, cutting hay, working cattle. Wheat good to excellent. Wheat maturing rapidly. Cotton emerged 80%, 49% 1991, 69% avg. Cotton conditions 57% fair, 43% good. Soybeans emerged 18%, 6% 1991, 13% avg. Grain sorghum emerged 84%, 41% 1991, 62% avg. Sorghum 4% poor, 63% fair, 28% good, 5% excellent. Corn planted 100%, 94% 1991, 96% avg. Corn conditions 37% fair, 63% good. Some corn fields in southwest were plowed under due to insect infestations. Livestock in good condition. Producers continue seasonal spraying for ticks, flies. Cattle making good gains in Southwest. Pastures in mostly good condition. Army worms reported heavy in northwest, north central. Hay yields down 40% of normal in north central. Some freeze damage showing on tomatoes in north central.

CALIFORNIA: After high pressure weakened mid week showers fell mountains, northern end of Sacramento Valley. Above normal temperatures returned at weekend as high pressure rebuilt.

Open weather permitted good progress field activities. Small grains mature, most areas. Wheat harvest increased, southern counties. Alfalfa, oats, forage mixes cut hay, green chopped. Alfalfa treatment lygus, weevils. Rice planting rapid progress, complete. Excellent growth most areas. Irrigation, treatments weeds, lygus ongoing. Planting corn, dry beans. New crop sugarbeets planted, irrigated. Over wintered sugarbeet harvest winding down. Grape growers treat mildew, leafhoppers, grape leaf skeletonizer. Desert table grape harvest continued. Tree fruit picking gained momentum, more varieties matured. Stonefruit week, ten days early, Fresno County. Irrigation, fertilization, spraying worms almond, walnut orchards. Peaches thinned, sprayed. Persimmons setting fruit, pomegranates bloom, set fruit, Tulare County. Navel orange harvests, drawing to close. Valencia orange harvest continued. Desert area lemon, grapefruit, avocado harvest continued. Artichoke harvest light central coast. Asparagus cutting nearly finished Sacramento Valley, continued very light Delta, Salinas Valley areas good quality. Snap bean picking gained momentum central valley. Broccoli moderate Salinas Watsonville, Santa Maria, good quality. Cauliflower fairly light Salinas Watsonville, Santa Maria variable quality. Cucumber packing Kern Tulare. Garlic being harvested central valley areas. Iceberg lettuce fairly heavy Salinas Watsonville moderate Santa Maria variable quality. Leaf, Romaine lettuce fairly heavy variable quality Salinas Watsonville. Spring onion digging active central Imperial Valleys. Seeding 1992 fall potato crop continued Tulelake Butte Valley spring potato harvest increased Kern Tulare district. Strawberry harvest continued variable quality central coast district. Picking neared completion some Sacramento Valley eastside area. Fresh market tomato harvest started Kern Tulare area. Planting continued for beans, melons, peppers, sweet potatoes, tomatoes. Range and pasture conditions fair to good. Rangeland rapidly drying. Forage quality good. Livestock condition good. Movement

to summer pasture active. Water supplies variable. Supplemental feeding light to moderate.

COLORADO: Afternoon thunderstorms with strong winds, little moisture through 21st. From the 22nd through the 24th up to 0.40 in. of rain, though many areas did not receive any. Much cooler later in the period. Temperatures 3 to 6° above normal most of State.

Days suitable for fieldwork 6.2. Soil moisture 26% very short, 43% short, 28% adequate, 3% surplus. Barley emerged 98%, 75% 1991, 82% avg. Oats emerged 84%, 74% 1991, 80% avg. Spring wheat emerged 80%, 47% 1991, 69% avg. Dry beans planted 18%, 4% 1991, 7% avg. Sorghum planted 19%, 18% 1991, 15% avg., emerged 8%. Corn emerged 78%, 41% 1991, 49% avg. Winter wheat headed 80%, 8% 1991, 17% avg. Winter wheat 13% very poor, 21% poor, 41% fair, 23% good, 2% excellent. Corn 1% very poor, 3% poor, 21% fair, 66% good, 9% excellent. Livestock mostly good. Pasture, range feed poor.

FLORIDA: Temperatures 1 to 3° below normal except northeast 4 to 6° below normal. Highs, low to middle 90s north, 90° central, upper 80s south. Lows, low to middle 50s north, around 60 elsewhere. Rainfall mostly none to less than 0.25 in.

Soil moisture mostly short throughout State, except northeast corner adequate to surplus. Dry soil delaying planting cotton, peanuts, soybeans. All dryland crops under stress. Winter wheat harvest, haying active. Sugarcane making good progress. Citrus groves need rain, some stress showing, all irrigation being used. New crop fruit good condition in spite of dry weather. Drop of excessive new fruit almost over. Valencias remaining to be picked have very high pounds solids. Late orange harvest is slowing as supplies run low. Grapefruit harvest almost over. Warm days, mild nights prevailed over major vegetable producing areas. Rainfall very limited. Harvest near complete south; active central; underway northern areas. Volume leaders: Watermelon, potatoes, tomatoes, sweet corn, cucumbers, peppers. Also available: Snap beans, cabbage, carrots, celery, eggplant, escarole, radishes, cherry tomatoes. Lettuce harvest complete. States pastures poor to good. Pasture 25% poor, 45% fair, 25% good, 5% excellent. Moisture levels mostly short. State's cattle herds fair to good.

GEORGIA: Rain north, east central, local 0.50 to 1.50 in. Little remainder of State. Temperatures 1 or 2° above normal north, west central, 2 to 4° below normal elsewhere. Warmest 85 to 90° north, 90 to 95° central, south. Coolest low, mid 40s mountains, upper 40s, mid 50s elsewhere.

Days suitable for fieldwork 6.1. Soil moisture 36% very short, 46% short, 17% adequate, 1% surplus. Corn 3% silked, 24% 1991, 12% avg.; condition off again. Cotton 13% poor, 77% fair, 10% good; planting slows, stand problems some dryland fields. Sorghum 17% poor, 61% fair, 22% good; 40% planted, 53% 1991, 59% avg. Peanuts 18% poor, 59% fair, 23% good; 82% planted, 75% 1991, 91% avg.; 1% blooming, 12% 1991, 7% avg.; rating drops again, stand problems some dryland fields. Soybeans 3% poor, 74% fair, 23% good; dry soils slowing planting. Tobacco 8% poor, 77% fair, 15% good. Wheat 3% harvested for grain, 15% 1991, 18% avg.; early yields, test weight promising. Onions 67% fair, 33% good; 91% harvested, 100% 1991, 100% avg. Watermelons 33% poor, 56% fair, 11% good; 98% planted, 100% 1991, 100% avg. Other vegetables fair to good, irrigation active. Apples 1% poor, 23% fair, 76%

good. Peaches 2% very poor, 2% poor, 10% fair, 86% good; 14% harvested, 22% 1991, 18% avg. Hay, pastures fair to good. Cattle and hogs fair to good, mostly good. Activities: Irrigating all crops possible, some fields prior to seedbed preparation; harvesting hay, spraying tree crops.

HAWAII: Low pressure system near the State brought rain to islands during the week. Heavy rain drenched some areas Oahu, Maui earlier in the week. Despite recent rainfall, water restrictions remained in effect for Upcountry Maui. A high wind watch was in effect for upper elevations. South-easterly winds caused muggy weather. Farm activities were slowed by heavy rains but resumed with sunny weather. Temperatures mid 60s to upper 80s. Rainfall none to 2.80 in.

Days suitable for fieldwork 7.0. Banana production continued at steady, near normal levels. Papaya production increased. Diamondback moth damaging cabbage plantings on Maui. Sweet corn production on Oahu expected moderate to heavy with favorable weather.

IDAHO: Statewide, temperatures 3 to 10° above normal. Scattered precipitation fell mainly in the north. Grangeville received most with 0.80 in.

Days suitable for fieldwork 7. Soil moisture 22% very short, 36% short, 42% adequate. Spring wheat 56% not yet jointed, 35% jointed, 9% boot. Spring barley planted 99%, 93% 1991, 97% avg.; emerged 96%, 73% 1991, 86% avg.; 62% not yet jointed, 31% jointed, 7% boot. Oats planted 99%, 85% 1991, 94% avg.; emerged 91%, 59% 1991, 81% avg. Sugarbeets emerged 99%, 95% 1991, 98% avg.; thinned 45%, 16% 1991, 33% avg. Potatoes planted 98%, 69% 1991, 87% avg.; emerged 34%, 11% 1991, 20% avg. First cutting alfalfa 17%, 2% 1991, 7% avg. Lentils emerged 99%, 67% 1991, 80% avg. Dry peas emerged 99%, 71% 1991, 83% avg. Field corn planted 83%, 71% 1991, 82% avg.; emerged 49%, 26% 1991, 49% avg. Dry beans planted 21%, 4% 1991, 17% avg. Irrigation water supplies 12% very poor, 22% poor, 39% fair, 26% good, 1% excellent. Activities: Cultivating, cutting alfalfa; irrigation; hilling potatoes; weed, insect control; fencing; planting. Pasture, range 70% of normal. Hay, roughage supplies mostly adequate. Livestock good.

ILLINOIS: Unseasonably warm, humid weather developed during the week across State. Temperatures upper 40s to upper 70s across the State. Precipitation across State 0.03 to 1.72 in.

Average height of all corn that had emerged by 24th 4 inches, compared to 6 inches 1991, 5 inches avg. The average height of most advanced fields was 8 inches, compared to 11 inches 1991, 9 inches avg. Full stand of corn as of 24th 86%. Replanting of corn as of 24th 7%. Winter wheat filled was 30% complete as of 24th, compared to 31% 1991, 34% avg. Turning yellow of winter wheat acres was 1% as of 24th, 1% both 1991 and avg. First cutting of alfalfa was 33% complete as of 24th, 27% 1991, 31% avg. Cutting of Red Clover was 15% complete as of 24th, 24% both 1991 and avg. Alfalfa 1% excellent, 58% good, 30% fair, 9% poor, 2% very poor. Oats 2% excellent, 63% good, 33% fair, 2% poor. Red Clover 2% excellent, 58% good, 30% fair, 9% poor, 1% very poor. Soil moisture was 70% short, 26% adequate, 4% surplus.

INDIANA: Temperatures averaged around normal due to extreme highs and lows. Highs 50s to low 80s. Lows, low 30s to upper 50s. Precipitation 0.25 to 2.00 in.

Days suitable for fieldwork 5.4. Topsoil 44% short, 50% adequate, 6% surplus. Subsoil 38% short, 61% adequate, 1% surplus. Corn emerged 82%, 77% 1991, 69% avg. Soybeans emerged 51%, 46% 1991, 37% avg. Wheat 95% jointed, 99% 1991, 97%

avg. Wheat in milk 10%. Oats headed 8%. Oats 8 in. high, 10 in. 1991, 9 in. avg. Alfalfa hay 1st cutting 17%, 22% 1991, 26% avg. Pasture 85%, 84% last week, 96% 1991. Scattered showers brought relief some areas while others await moisture.

IOWA: Temperatures 1 to 3° above normal. Extremes 36°; 89°. Precipitation 0.09 in to 2.38 in.; average 0.59 in.

Days suitable for fieldwork 5.0. Topsoil 56% short, 42% adequate, 2% surplus. Subsoil 7% short, 91% adequate, 2% surplus. Winter wheat 10% very poor, 23% poor, 41% fair, 25% good, 1% excellent. Hay 5% very poor, 11% poor, 38% fair, 40% good, 6% excellent. Oats 6% poor, 27% fair, 58% good, 9% excellent. Soybeans 1% very poor, 2% poor, 25% fair, 59% good, 13% excellent. Pasture 3% very poor, 9% poor, 39% fair, 39% good, 10% excellent. Corn 90% emerged, 48% 1991, 75% avg.; stand 93% of normal; replanted 1%. Soybean 40% emerged, 11% 1991, 27% avg. First cutting alfalfa 3% harvested, 1% 1991, 3% avg. Livestock good.

KANSAS: Temperatures above normal over the State; 3° above normal south central to 8° above normal northwest. Precipitation 0.14 in. central to 0.75 in. southeast. Most areas received 0.50 in. or less rainfall.

Days suitable for fieldwork 5.0. Surface moisture 61% short, 34% adequate, 5% surplus. Subsurface moisture 63% short, 37% adequate. Received scattered rains. Wheat mostly poor to fair. Temperatures dipped to twenties this morning (26th) northwest. Some damage may have resulted to the wheat crop. Heavy infestations armyworms southeast wheat. Corn planting almost complete. Sorghum, soybean planting ahead of average. Pasture forage adequate many areas, short in parts of west, central State. Stockwater short southwest, central third of State. Hauling water to cattle some areas. Approximately 50% of the alfalfa cut first time.

KENTUCKY: Temperatures around 80°. Lows mid 50s to lower 60s. Rainfall significant 1.00 to 2.00 in. common central areas. Elsewhere amounts mostly 0.50 to 1.00 in. most fell 20th, 21st.

Days suitable for fieldwork 3.6. Soil moisture 4% very short, 25% short, 54% adequate, 17% surplus. Wheat 1% poor, 29% fair, 58% good, 12% excellent. Some fields showing septoria leaf, glume blotch disease. Burley tobacco 37% set compared to 44% 1991, 32% avg. Soybeans emerged 5% poor, 30% fair, 58% good, 7% excellent. Hay crop 3% very poor, 15% poor, 52% fair, 28% good, 2% excellent.

LOUISIANA: Temperatures 0.4° below to 3.4° above normal. Extremes 60°; 91°. Rainfall 0.08 in. west central to 1.33 in. southwest.

Days suitable for fieldwork 6.1. Soil moisture 15% very short, 34% short, 51% adequate. Corn 6% poor, 27% fair, 64% good, 3% excellent; 7% silked, 4% 1991, 4% avg. Cotton 50% fair, 50% good; 98% emerged, 38% 1991, 71% avg. Irrigation active, north. Hay 46% first cutting, 9% 1991, 35% avg. Water weevils in rice a problem, southwest. Spring plowing 99% complete, 78% 1991, 93% avg. Peaches 5% poor, 40% fair, 55% good; 10% harvested, 3% 1991, 4% avg. Sorghum 9% poor, 30% fair, 61% good; 82% emerged, 53% 1991, 66% avg. Soybeans 44% emerged, 4% 1991, 16% avg. Sugar-cane 1% fair, 99% good. Many field being layed-by. Sweet potatoes 22% planted, 16% 1991, 26% avg. Wheat 8% poor, 40% fair, 52% good; 99% turning color, 99% 1991, 95% avg.; 28% harvested, 17% 1991, 27% avg. Livestock 21% fair,

70% good, 9% excellent. Pastures 4% poor, 5% fair, 91% good. Vegetables 2% poor, 22% fair, 74% good, 2% excellent.

MARYLAND & DELAWARE: MARYLAND: Precipitation 0.31 in. Temperature 63.1°, normal 65.0°. Extremes 34°; 93°.

Days suitable for fieldwork 5.8. Topsoil 33% short, 67% adequate. Subsoil 5% very short, 36% short, 59% adequate. Corn 88% planted, 91% 1991, 78% avg. Sweet corn 56% planted, 75% 1991, 68% avg. Small grains good, barley 31% turned, rye 27% turned. Wheat 81% headed, 95% 1991, 84% avg.; oats 23% headed 26% 1991, 14% avg. Pastures good to excellent. Hay short supply. Active cutting, baling hay. A few strawberries, green peas have been picked. Light to moderate disease, insect pressure on vegetables, wheat. Melon planting near normal, vegetable planting behind. Tobacco transplants starting slow with alternating cool, warm temperatures. Hay making just starting but catching up to normal. Starting to plant sorghum and soybeans. A few strawberries, green peas picked. Some scattered frost damage during weekend.

DELAWARE: Precipitation 0.12 in. Temperature 62.2°, normal 65.4°. Extremes 33°; 92°.

Days suitable for fieldwork 6.9. Topsoil 17% short, 83% adequate. Subsoil 33% short, 67% adequate. Corn 91% planted, 96% 1991, 88% avg. Sweet corn 83% planted, 61% 1991, 72% avg. Small grains good condition, barley 38% turned, 84% 1991, 40% avg. Rye 92% headed, 100% 1991, 100% avg. Wheat 63% headed, 99% 1991, 93% avg. Oats 74% headed, 75% 1991. Pastures mostly good to excellent. A few strawberries, green peas being harvested. Activities: Active corn planting; very active planting melons and vegetables. Cutting, baling hay. Soybean, sorghum planting underway. Light to moderate disease, insect pressure on small grains, some spraying. Some scattered frost damage during weekend to potatoes, vegetables, corn. Replanting some corn, vegetables.

MICHIGAN: Temperatures 1 to 5° above normal. Extremes 29°; 89°. Precipitation none to 1.58 in. across the State.

Days suitable for fieldwork 6.5. Soil moisture 70% short, 30% adequate. Corn 85% planted, 80% 1991, 85% avg.; 40% emerged, 45% 1991, 50% avg.; 2% very poor, 3% poor, 25% fair, 50% good, 20% excellent. Oats 96% planted, 97% 1991, 99% avg. Potatoes 75% planted, 75% 1991, 75% avg. Soybeans 55% planted, 40% 1991, 45% avg. Winter wheat 0% headed, 10% 1991, 5% avg.; 1% very poor, 9% poor, 30% fair, 50% good, 10% excellent. Pasture 75% of normal. Major activities: Crop planting, fertilizer spreading, weed spraying.

MINNESOTA: Temperatures 4 to 5° above normal. Extremes 25°; 95°. Precipitation 0.02 to 0.77 in. State, near normal to 0.75 in. below normal. Greatest weekly total was 1.32 in.

Days suitable for fieldwork 5.7. Topsoil 11% very short, 43% short, 40% adequate, 6% surplus. Spring wheat 94% planted, 99% 1991, 98% avg.; 76% emerged, 95% 1991, 97% avg.; 6% jointing, 7% 1991, 8% avg. Oats 98% seeded, 99% 1991, 99% avg.; 88% emerged, 87% 1991, 92% avg.; 7% jointing, 10% 1991, 10% avg. Barley 90% seeded, 99% 1991, 98% avg.; 70% emerged, 95% 1991, 95% avg.; 3% jointing, 9% 1991, 6% avg. Corn 98% planted 71% 1991 89% avg.; 82% emerged, 38% 1991, 62% avg. Soybean 86% planted, 37% 1991, 63% avg.; 35% emerged, 7% 1991, 19% avg. Sunflower 61% planted, 77% 1991, 70% avg. Sugarbeets 99% planted, 99% 1991, 99% avg. Potatoes 72% planted, 76% 1991, 80% avg. Flaxseed 42% planted, 88% 1991, 74% avg. Dry beans 66% planted, 57% 1991, 66% avg. Sweet corn 78% planted, 35% 1991, 59% avg. Green peas

94% planted, 66% 1991, 83% avg. Alfalfa hay 1% first cutting, 0% 1991, 1% avg.

MISSISSIPPI: Weather Data Not Available.

Days suitable for fieldwork 6.2, 2.7 1991, 3.7 avg. Soil moisture 63% very short, 34% short, 3% adequate. Corn 97% emerged, 64% 1991, 85% avg.; 6% poor, 59% fair, 35% good. Cotton 95% planted, 45% 1991, 81% avg.; 88% emerged, 34% 1991, 69% avg.; 9% poor, 80% fair, 11% good. Peanuts 63% planted, 52% 1991, 62% avg. Rice emerged 90%, 28% 1991, 74% avg.; 65% poor, 35% fair. Sorghum 88% planted, 42% 1991, 73% avg.; 81% emerged, 40% 1991, 68% avg.; 15% poor, 26% fair, 59% good. Soybeans 30% planted, 7% 1991, 24% avg.; 28% emerged, 5% 1991, 15% avg.; 6% poor, 80% fair, 14% good. Sweet potatoes 40% planted, 23% 1991, 46% avg. Watermelons 88% planted, 82% 1991, 91% avg. Wheat 44% mature, 65% 1991, 45% avg.; 5% harvested, 4% 1991, 3% avg.; 1% very poor, 1% poor, 49% fair, 49% good. Hay 38% harvested, 8% 1991, 21% avg. Peaches 17% harvested, 3% 1991, 3% avg.; 13% very poor, 25% poor, 31% fair, 31% good. Livestock 1% poor, 38% fair, 61% good. Pasture 74% of normal. Activities: Planting soybeans, harvesting hay.

MISSOURI: Temperatures 1° above normal northwest to 5° above normal southeast. Precipitation 1.09 in., varying 0.33 in. or less northeastern, west central districts to well over 1.00 in. east central, southern districts, up to 6.50 in. Ste. Genevieve County.

Days suitable for fieldwork 4.6. Topsoil 55% short, 41% adequate, 4% surplus. Corn planting virtually complete many areas, over 90% every district. Single-crop soybean planting by district ranges 35% southwest to over 70% northwest, north central, northeast. Some farmers waiting for more rain before continuing planting. Sorghum planting varies 39% southwest to 91% southeast. Wheat development 4 or 5 days behind normal, heading 60 to 72% complete northern districts, 88 to 96% central districts, 100% south. Wheat turning color 9%, 20% 1991, 20% avg., turning mostly limited to southeast. Alfalfa first cutting 35%, 25% 1991, 40% avg. Other hay cut 12%, 9% 1991, 16% avg. Pasture 17% poor, 60% fair, 21% good, 2% excellent.

MONTANA: Temperatures 2 to 12° above normal. Precipitation most areas, some snow.

Days suitable for fieldwork 6.0. Topsoil 65% short, 32% adequate, 3% surplus. Subsoil 69% short, 31% adequate. Barley 96% planted, 87% 1991, 94% avg. Barley 77% emerged, 60% 1991, 70% avg. Oats 95% planted, 85% 1991, 91% avg. Sugarbeets 100% planted, 100% 1991, 100% avg. Corn 88% planted, 76% 1991, 78% avg. Potatoes 65% planted, 48% 1991, 62% avg. Pasture, range feed conditions 71%. Cattle, calves moved to summer ranges 65%, sheep, lambs 66% moved.

NEBRASKA: Temperatures near normal except in the northwest, north central 5° above normals. Precipitation occurred midweek, ranging from none to over 1.00 in.

Days suitable for fieldwork 4.2. Topsoil 45% short, 47% adequate, 8% surplus. Subsoil 33% short, 66% adequate, 1% surplus. Wheat 3% very poor, 51% poor, 37% fair, 9% good; 90% headed, 43% 1991, 45% avg. Corn 5% poor, 36% fair, 52% good, 7% excellent; 100% planted, 94% 1991, 95% avg.; 97% emerged, 69% 1991, 70% avg. Sorghum 68% planted, 43% 1991, 44% avg.; 26% emerged, 18% 1991, 19% avg. Soybeans 74% planted, 50% 1991, 52% avg.; 30% emerged, 20% 1991, 22% avg. Alfalfa 10% poor, 27% fair, 59% good, 4% excellent; 16% first cutting harvested, 4% 1991, 12% avg. Pasture and range 79% of normal.

NEVADA: Low pressure system brought some cooling southern areas, temperatures only few degrees above normal south, south central. High pressure moved into northern areas end of period resulting in average temperatures 5 to 7° above normal most areas northern division. Only south central received any significant rainfall, half inch some eastern areas.

Surface irrigation water supplies remain very short to short. Field crops generally fair to good. First cutting alfalfa hay starting central areas. Livestock movement to summer ranges continues. Range stockwater a problem some areas.

NEW ENGLAND: Precipitation none to 0.20 in. throughout region, up to 0.55 in. northern Maine. Temperatures low to mid 60s north, low to high 60s south; 6 to 14° above normal. Maximum temperatures mid 80s to high 90s; minimum temperatures mid 20s to low 40s.

Days suitable for fieldwork 7. Soil moisture 12% very short, 48% short, 40% adequate. Available grazing 39% short, 56% adequate, 5% surplus. Fieldwork progress 5 days behind schedule. Maine potatoes 60% planted, 75% 1991, 66% avg.; 7% emerged, 13% 1991, 2% avg.; good. Rhode Island potatoes 85% planted, 74% 1991, 88% avg.; 40% emerged, 38% 1991, 27% avg.; good. Connecticut River Valley potatoes 80% planted, 77% 1991, 87% avg.; 40% emerged, 51% 1991, 60% avg.; good. Maine oats 70% planted, 82% 1991, 72% avg.; 22% emerged; good. Field corn 61% planted, 70% 1991, 53% avg.; 20% emerged, 38% 1991, 21% avg.; good. Sweet corn 60% planted, 63% 1991, 56% avg.; 27% emerged, 47% 1991, 32% avg.; good. Hay fair to good. Shade tobacco 17% transplanted; good. Outdoor tobacco 3% transplanted; good. Apples, pears full bloom, peaches full bloom to petal fall. Cranberries bud stage. Strawberries, blueberries early bloom. Major farm activities: Plowing, spreading manure, fertilizing, field preparation, planting crops.

NEW JERSEY: Temperatures near normal. Extremes 27°; 95°. Rainfall 0.34 in. north, 0.17 in. central, 0.08 in. south. Heaviest 24 hour total 0.57 in. on 24th, 25th. Estimated soil moisture, in percent field capacity, averaged 85% north, 79% central, 63% south. Four-inch soil temperatures averaged 60° north, central, 61° south.

Field preparation, planting continue. Soil moisture content short overall. Harvest continues. Asparagus, beets, Chinese cabbage, endive, leeks, scallions, parsley, radish, spinach, leafy greens, lettuce except iceberg, in moderate supply. Planting of corn, soybeans continues. Peaches past shuck off, apples past full petal fall. Two nights of severe frost caused light strawberry, cranberry damage. Heavy blueberry damage. Severe eggplant damage. Pepper, tomato damage spotty. All grains have headed. Pastures look good.

NEW MEXICO: A week of unusually showery, cool weather was highlighted by severe storms and flooding across southeastern areas. All areas except for the far northern mountains were 2° to 5° cooler than normal. All stations had precipitation with most amounts between 0.50 to 1.00 in. while the southeast had totals over 6.00 in.

Days suitable for fieldwork 5.3. Soil moisture 14% short, 75% adequate, 11% surplus. Crop conditions: Alfalfa, 6% poor, 28% fair, 60% good, 6% excellent. Cotton 50% fair, 50% good. Corn 11% fair, 89% good. Irrigated wheat, 11% fair, 89% good. Dryland wheat 14% poor, 14% fair, 72% good. Wheat crop was 100% headed out. Onions reported in good condition with harvest ready to start. Lettuce 33% fair, 67% good with harvest slowing

down. Chile 8% poor, 23% fair, 69% good. Apples 18% fair, 73% good, 9% excellent. Various reports from across the southern part of the state of hail and flood damage to some cotton, wheat, sorghum, and peanuts. End of week damages not available at this time. Cattle and sheep in fair to excellent condition. Range condition 92% of normal.

NEW YORK: Temperatures 5 to 10° above normal. Temperatures close to 90° on 20th through 23rd. Extremes 28°; 94°. Precipitation was generally below normal with most areas receiving 0.50 in. or less. The exception was western regions. Thunderstorms produced amounts over 1.00 in.

Days suitable for fieldwork 6.4. Soil moisture mostly adequate. Pasture 89% of normal. Hay, wheat condition mostly good. Excellent weather prevailed for fieldwork. Corn planting reached 60% complete, 67% 1992, 51% avg. Oat seeding 74% finished, 94% 1991, 85% avg. Potato planting over 50% complete. Apples sizing rapidly in Hudson Valley region. Heavy set on many varieties. Fruit growing areas experienced frost morning of 25th. Damage not assessed. Vegetable crop also effected. Orange County onions at three flag stage. Lettuce planting 50% complete. Asparagus harvest gaining momentum.

NORTH CAROLINA: Temperatures below normal. Precipitation below normal.

Days suitable for fieldwork 4.9. Soil moisture 20% short, 74% adequate, 6% surplus. Crop condition: Wheat 6% fair, 91% good, 3% excellent; oats 6% fair, 91% good, 3% excellent; barley 5% fair, 91% good, 4% excellent; rye 7% fair, 90% good, 3% excellent; pasture 16% fair, 81% good, 3% excellent; tobacco 37% fair, 60% good, 3% excellent; corn 20% fair, 76% good, 4% excellent; cotton 8% poor, 46% fair, 46% good; peanuts 5% poor, 28% fair, 61% good, 6% excellent; hay 3% poor, 19% fair, 75% good, 3% excellent; irish potatoes 4% fair, 88% good, 8% excellent; apples 64% fair, 36% good; peaches 10% very poor, 19% poor, 52% fair, 19% good; truck crops 35% fair, 60% good, 5% excellent. Corn planted 98%, 99% 1991, 93% avg.; cotton planted 89%, 97% 1991, 82% avg.; peanuts planted 80%, 90% 1991, 72% avg.; sorghum planted 52%, 37% 1991, 43% avg.; soybeans planted 32%, 35% 1991, 28% avg.; flue-cured tobacco transplanted 96%, 98% 1991, 87% avg.; burley tobacco transplanted 13%, 43% 1991, 28% avg.; sweet potatoes 32%, 32% 1991, 29% avg. Wheat headed 93%, 99% 1991, 95% avg. Hay, roughage supplies 1% short, 92% adequate, 7% surplus. Hay first cutting 51%. Major activities: Planting corn, cotton, sorghum, soybeans, peanuts, truck crops; transplanting flue-cured tobacco, sweet potatoes. Other activities: Tending tobacco beds; topdressing, spraying small grains; fertilizing pastures; harvesting hay; tending livestock; cultivating, spraying field crops; equipment repair; general farm maintenance.

NORTH DAKOTA: Warm, dry early followed by cold, wet late in week over most of State. Temperatures 4 to 5° above normal. Extremes 26° central; 96° southeast. Precipitation 0.10 in. northwest to 1.88 in. southeast.

Days suitable for fieldwork 5.2. Topsoil 11% very short, 24% short, 64% adequate, surplus 1%. Subsoil 12% very short, 27% short, 60% adequate, surplus 1%. Small grain condition mostly good with varied amounts of frost damage across State. Spring wheat 26% fair, 70% good, 4% excellent; durum 21%, 78%, 1%; oats 56%, 42%, 2%; barley 19%, 79%, 2%. Small grain planting nearly complete, near average. Hard red spring wheat 97% planted, 83% emerged and beyond; 96%, 79%

1991; 96%, 79% avg. Durum wheat 92% planted, 63% emerged and beyond; 89%, 62% 1991; 91%, 66% avg. Oats 96% planted, 83% emerged and beyond; 93%, 72% 1991; 95%, 76% avg. Barley 96% planted, 82% emerged and beyond; 97%, 83% 1991; 97%, 82% avg. Winter wheat 59% jointing and beyond, 65% 1991, 61% avg. Sugarbeets 99% planted, 100% 1991, 100% avg.; corn 86%, 79% 1991, 73% avg.; flax 64%, 68% 1991, 58% avg.; potatoes 63%, 82% 1991, 81% avg.; soybeans 80%, 74% 1991, 57% avg.; dry beans 51%, 60% 1991, 46% avg.; sunflower 31%, 44% 1991, 39% avg. Average height of emerged late season crops: corn 3 in.; sunflower 2 in.; flax, dry beans, soybeans, sugarbeets, potatoes 1 in. Post emerged herbicide applications for broadleaf control 15% complete, wild oats 27%. Range and pasture conditions 82% of normal; furnished 87% roughage requirements. Stockwater supplies 2% very short, 34% short, 64% adequate.

OHIO: Drier than normal weather prevailed across State for the past week. Summer-like temperatures at the beginning of the period were replaced by much cooler readings late 23rd to 24th. Daily high temperature low to upper 70s which was normal to 3° above normal. Lows 40s north to the 50s south. Coldest temperatures 30s north to low 40s south. Soil temperatures at the 4-inch depth under bare ground averaged in the mid to upper 60s. Rainfall averaged mostly around 0.40 to 1.25 in. over State.

Days suitable for fieldwork 5.4. Soil moisture 27% short, 67% adequate, 6% surplus. Corn emerged 60%, 82% 1991, 69% avg. Soybeans emerged 27%, 54% 1991, 38% avg. Potatoes planted 79%, 91% 1991, 82% avg. Processing tomatoes planted 58%, 76% 1991, 62% avg. Pasture 6% poor, 31% fair, 52% good, 11% excellent. Hay 1% very poor, 5% poor, 32% fair, 52% good, 10% excellent. Periodic cool spells are hindering wheat development. Headed wheat is much below normal.

OKLAHOMA: Temperatures 1° below normal north central, southwest, south central to 2° above normal east central. Precipitation 0.51 in. northeast to 2.96 in. southeast.

Days suitable for fieldwork 3.8. Topsoil 22% short, 39% adequate, 39% surplus. Subsoil 16% short, 84% adequate. Wheat 2% poor, 63% fair, 35% good; 100% heading, 99% 1991, 98% avg.; 79% soft dough, 67% 1991, 53% avg. Corn 100% planted, 98% 1991, 97% avg.; 96% emerged, 96% 1991, 90% avg. Crop insect activity light to moderate. Cattle good; marketings average; prices steady to lower.

OREGON: Temperatures above normal, statewide. Western areas 2 to 5° above normal while eastern areas 3 to 6° above normal, except north central areas 1 to 2° above normal. Precipitation: dry western areas, except south western interior, Medford 1.40 in., Grants Pass 0.56 in. Eastern areas 0.25 to 0.50 in.

Soil moisture 55% short, 45% adequate. Winter wheat 1% very poor, 7% poor, 45% fair, 45% good, 2% excellent. Barley 99% planted. Winter wheat headed 58%. Spring cereal grains drying quickly. First cutting of hay nearing completion. Strawberry harvest continued, blackberries, raspberries ripening earlier than normal; Willamette Valley. Cherry harvest near; one week Milton Freewater district, two weeks Willamette Valley, sizing The Dallas district. Pear thinning in progress, Hood River Valley. Hood River and Willamette Valley apple thinning underway. Cranberry fruit set started, Stevens, other mid season varieties, southern coast. Bloom good to excellent, cranberry pollination underway; southern coast. Klamath Basin potato planting continued. Pea harvest underway, Marion Co. Eastern ranges, pastures continue to be extremely

dry. Stockwater shortages continue, eastern areas. Pastures normal to near normal, western areas. Statewide pasture, range 71% of normal.

PENNSYLVANIA: Temperature 68°, 11° above normal. Extremes 31°, 94°. Precipitation 0.31 in., 0.51 in. below normal.

Days suitable for fieldwork 6. Soil moisture 23% short, 74% adequate, 3% surplus. Plowing 90% complete, 93% 1991, 88% avg. Corn 67% planted, 78% 1991, 59% avg. Soybeans 28% planted, 38% 1991, 24% avg. Oats 95% planted, 98% 1991, 95% avg. Potatoes 73% planted, 86% 1991, 76% avg. Barley 20% pre boot, 17% 1991, 22% avg.; 20% boot, 14% 1991, 18% avg.; 60% heading or headed, 69% 1991, 60% avg. Wheat 31% pre boot, 19% 1991, 32% avg.; 45% boot, 33% 1991, 39% avg.; 24% heading or headed, 48% 1991, 29% avg. Wheat 1% very poor, 3% poor, 15% fair, 62% good, 19% excellent. Oats 1% very poor, 3% poor, 18% fair, 60% good, 18% excellent. Hay stands mostly good to fair. Alfalfa first cutting 13% complete, 32% 1991, 13% avg. Quality of hay made 5% poor, 14% fair, 81% good. Feed from pastures 2% poor, 31% fair, 67% good. Peaches 3% pre-pink, 1% 1991, 0% avg.; 3% pink, 2% 1991, 3% avg.; 94% full bloom or past, 97% 1991, 97% avg. Cherries 6% pre-pink, 0% 1991, 1% avg.; 8% pink, 2% 1991, 3% avg; 86% full bloom or past, 98% 1991, 96% avg. Apples 6% pre-pink, 1% 1991, 3% avg.; 10% pink, 3% 1991, 6% avg.; 84% full bloom or past, 96% 1991, 91% avg. Activities: Spraying fruit trees, small grains; spring plowing; planting; hauling manure; spreading fertilizer; maintaining machinery; cutting ryelage, haylage, hay; caring for livestock.

PUERTO RICO: No Data Available.

SOUTH CAROLINA: Temperatures across the State near normal in the north, coast to 2° below normal in central. Rainfall 0.25 in. statewide.

Days suitable for fieldwork 6.0. Soil moisture 65% short, 35% adequate. Tobacco fair to good; corn fair to good; cotton fair to good; 92% planted, 84% 1991, 87% avg. Soybeans 23% planted, 15% 1991, 23% avg. Peaches fair; 2% harvested, 1% 1991, 4% avg. Watermelons fair to good; 91% planted, 89% 1991, 91% avg. Cantaloupes fair to good; 87% planted, 85% 1991, 87% avg. Cucumbers fair to good; 90% planted, 91% 1991, 90% avg. Snap beans fair to good; 75% planted, 73% 1991, 81% avg. Oats fair to good; 73% turning color, 85% 1991, 72% avg.; 34% ripe, 45% 1991, 29% avg.; 1% harvested, 4% 1991, 6% avg. Wheat fair to good; 62% turning color, 86% 1991, 75% avg.; 14% ripe, 46% 1991, 28% avg. Rye fair to good; 75% turning color, 80% 1991, 71% avg.; 34% ripe, 42% 1991, 25% avg.; 5% harvested, 7% 1991, 4% avg. Barley fair to good; 52% turning color, 66% 1991, 62% avg.; 8% ripe, 27% 1991, 16% avg. Grain hay fair to good; 61% harvested, 59% 1991, 68% avg. Peanuts fair to good; 87% planted, 92% 1991, 83% avg. Sorghum 22% planted, 35% 1991, 35% avg. Pastures fair to good. Some concern about short soil moisture.

SOUTH DAKOTA: Temperatures slightly above normal. Extremes 29°, 103°. Precipitation 0.50 to 1.00 in. in the west, north; less than 0.10 in. in the south central, southeast. Maximum 1.63 in.

Days suitable for fieldwork 5.5. Topsoil 29% critical, 48% short, 22% adequate, 1% surplus. Subsoil 30% critical, 43% short, 26% adequate, 1% surplus. Rye 7% very poor, 5% poor, 50% fair, 32% good, 6% excellent. Barley 12% poor, 45% fair, 41% good, 2% excellent. Oats 1% very poor, 12% poor, 40% fair, 40% good, 7% excellent. Flax 13% poor, 48% fair, 39% good. sunflowers 31%

planted, 7% 1991, 18% avg. Flax 79% planted, 69% 1991, 67% avg. Small grains look good where there is adequate moisture. Livestock 1% poor, 12% fair, 76% good, 11% excellent. Low or dry Stock dams in west. Pasture 75% of normal, little growth due to dry conditions. Cattle moved to pasture, 80%.

TENNESSEE: Weak warm front moved slowly through State 18th, 19th causing scattered thunderstorms across State. High pressure brought mostly dry weather 20th through 22nd. Cold front pushing down from the northwest caused scattered thunderstorms over the weekend. Temperatures 5° above normal middle, west; near normal east. Rainfall 0.75 in. below normal middle; 0.33 in. below normal west, east; 0.50 in. above normal Plateau.

Days suitable for fieldwork 5.1. Soil moisture 10% very short, 47% short, 39% adequate, 4% surplus. Corn 98% planted, 76% 1991, 84% avg. cotton 94% planted, 41% 1991, 79% avg. Sorghum 82% planted, 15% 1991, 51% avg. Soybeans 28% planted, 4% 1991, 21% avg. Tobacco 58% transplanted, 49% 1991, 43% avg.; 1% very poor, 42% fair, 57% good. Wheat 42% turning color, 55% 1991, 39% avg.; 1% very poor, 5% poor, 33% fair, 59% good, 2% excellent. alfalfa 68% 1st cutting, 45% 1991, 68% avg. Hay 3% very poor, 16% poor, 49% fair, 30% good, 2% excellent. Cattle 1% very poor, 1% poor, 21% fair, 73% good. 4% excellent. Rain needed for seed germination. Some planting halted by dry conditions.

TEXAS: Rainfall generally heavy over western two-thirds of State, especially in the Plains. Districts in central, west 1.00 to 3.00 in. of rain. Several individual stations 3.00 to 5.00 in. Storms initially heavy over south-central Texas during midweek period as upper disturbances moved across the region from south, southwest. Defined disturbance moved close to West Texas over the weekend, shifting emphasis for heavy rains from Central to West Texas. With all the clouds and showers around, temperatures near or below normal region wide. Exception was East Texas where readings were 3° above normal. A front produced cooler temperatures in West Texas over the holiday weekend.

Crops: Small grain fields received needed moisture in the Plains where a few producers have begun wheat harvest. Some wheat, oat fields harvested in the Cross Timbers, but many remained too wet. Some fields in the Blacklands had significant lodging due to heavy rain, wind. Insect, rust problems decreased significantly. Corn fields making excellent progress. Some producers irrigated, sprayed fields. Fields starting to tassel in Central Texas, Upper Coast. Grain sorghum fields continued to progress good from recent rain. Planting delayed at midweek by rain in the Plains. Insect damage caused some problems in the Blacklands. Statewide sorghum 83% normal compared with 85% 1991. Cotton planting slowed by rain on the Plains. Early planted fields emerging. Insects have caused some damage to young plants in the Blacklands. In Central Texas, Coastal Bend standing water has caused problems to late planted fields. Statewide cotton 69% normal compared with 86% 1991. Rice planting hampered by rain along the Upper Coast. Rainfall provided ample moisture for peanut planting and many producers should begin planting as fields dry. Most early planted fields have emerged; however, in Central Texas heavy rain damaged some recently planted fields. Soybean planting hindered along the Upper Coast, Blacklands by saturated fields.

Commercial Vegetables: In the Rio Grande Valley, most spring onions remaining in fields were lost to continued flooding. In East Texas,

some watermelon fields were cultivated. Potato, tomato, squash being harvested. Some plants have wilted due to excess water in fields. In the High Plains, some insect spraying and irrigating occurred. Thrips reported in some onion fields. In Trans-Pecos, chili peppers and melons progressed well. Peach harvest continued on early varieties. Some stink bug damage reported in the Hill Country. Excess moisture caused some trees to defoliate and drop fruit. Pecan trees were making good progress. High winds and heavy rains caused some loss of nut clusters. Disease problems developing.

Range and Livestock: Ranges, pastures improved with added moisture. Weed control continued in many areas. Livestock condition remained good although hornfly population increased. Some producers fertilizing hay while others cutting hay.

UTAH: Temperature maximums 4° above normal, minimums averaged 5° above normal. Light precipitation western third of the State, moderate elsewhere.

Days suitable for fieldwork 5.3. Soil moisture 60% short, 40% adequate. Spring wheat jointed or better 79%, 40% 1991. Spring wheat booted or better 42%. Spring wheat headed 7%. Barley jointed or better 74%, 42% 1991. Barley booted or better 40%. Barley headed 12%. Oats emerged 91%, 77% 1991. Oats jointed or better 47%. Oats booted or better 98%, 22% 1991. Winter wheat jointed or better 98%, 51% 1991. Winter wheat booted or better 76%, 21% 1991, 49% avg. Winter wheat headed 19%. Corn planted 93%, 75% 1991. Corn emerged 66%, 21% 1991, 53% avg. Corn height 4.8 inches. Alfalfa hay cutting 25% complete. Potatoes planted 100%. Continued warm weather has placed most crops 2-3 weeks ahead of normal. Cattle moved to spring pasture 59%, 29% 1991, 40% avg. Sheep moved to spring pasture 47%, 21% 1991. Pasture, range poor to fair.

VIRGINIA: Temperatures above normal the first of the week, fell to below normal the end of the week. Week averaged 3° below normal. Extremes 31°; 90°. Precipitation 0.50 to 1.50 in. across the State. The greatest amount of rainfall was 3.32 in. recorded in Blackstone.

Days suitable for fieldwork 3.3. Topsoil 7% short, 68% adequate, 25% surplus. Pasture 36% fair, 45% good, 19% excellent. Alfalfa 32% fair, 49% good, 19% excellent. Wheat 22% fair, 64% good, 14% excellent. Apples mostly good. Potatoes mostly fair. Other hay 56% fair, 37% good, 7% excellent. Corn 82% planted, 88% 1991, 80% avg. Corn 3% poor, 54% fair, 43% good. Soybeans 20% planted, 32% 1991, 24% avg. Cotton 95% planted, 100% 1991, 90% avg. Peanuts 93% planted, 98% 1991, 94% avg. Flue tobacco 90% transplanted, 95% 1991, 69% avg. Fire tobacco 63% transplanted, 75% 1991, 52% avg. Burley tobacco 17% transplanted, 40% 1991, 24% avg. Sun tobacco 60% transplanted, 90% 1991, 66% avg. Harvesting hay, spraying fruit, preparing soybean land, planting snaps, cucumbers, picking peas, staking tomatoes.

WASHINGTON: Temperatures 1 to 4° above normal west; 1° below to 4° above normal east. Rainfall none to 0.05 in. west; none to 0.35 in. east.

Days suitable for fieldwork 7.0. Soil moisture 74% short, 26% adequate. Hay, other roughage 12% short, 79% adequate, 9% surplus. Range, pasture 26% very poor, 38% poor, 36% fair. Winter wheat 79% fair, 21% good; 26% headed, 29% 1991, 19% avg. Winter barley 92% fair, 8% good. Potatoes 99% planted, 99% 1991, 99% avg.; 83% emerged, 76% 1991, 77% avg. Spring wheat 99% emerged, 95% 1991, 99% avg.; 25% headed, 4% 1991, 7% avg. Barley emerged 99%, 93% 1991, 98% avg.; 15%

headed, 4% 1991, 9% avg. Corn 90% planted, 74% 1991, 77% avg. Dry beans 40% planted, 43% 1991, 55% avg. Alfalfa hay first cut 58% complete, 21% 1991, 24% avg. Warm, dry weather had producers nervous about crop prospects. Concerns with wheat heads filling due to moisture stress central areas. Hay cutting active under good conditions. Corn planting in full swing west. Western orchards showing apple Ermine moths. Pears dropping central areas, crop still looks good. Strawberries blooming west, harvested central areas. Asparagus harvest continued. Lack of moisture hurting pastures, cattle being moved to areas with better feed. Beef cattle breeding season underway.

WEST VIRGINIA: Temperature 64°. Extremes 35°, 90°. Precipitation 0.53 in.

Days suitable for fieldwork 4.2. Soil moisture 17% short, 75% adequate, 8% surplus. Tobacco beds good; 98% planted, 84% emerged. Gardens fair to good; 51% planted, 40% emerged. Wheat good to excellent; 63% jointed; 42% headed. Barley excellent, 89% headed. Corn 51% planted, 40% emerged. Oats good; 57% planted; 53% emerged. Hay 17% poor, 30% fair, 46% good, 7% excellent. Apples good. Peaches good. Pastures 12% poor, 22% fair, 54% good, 12% excellent; 83% of normal. Hay feed supplies, adequate. Cattle 13% fair, 80% good, 7% excellent. Sheep 9% fair, 90% good, 1% excellent. Cows calved, 100%. Sheep lambed, 100%. Activities: plowing, planting soybeans, cutting hay, fencing, fertilizing, working cattle.

WISCONSIN: Temperature 60°; 2° above normal. Extremes 24°; 91°. Precipitation 0.30 to 0.60 in.

Days suitable for fieldwork 5.1. Soil moisture 34% short, 59% adequate, 7% surplus. It is especially dry in the southern districts where very little rain has been received in May; many reporters indicate a need for moisture to help crop growth. Pasture condition 78% of normal, 88% 1991, 78% avg. General condition of crops 2% poor, 26% fair, 69% good and 3% excellent. Oats condition 1% very poor, 5% poor, 26% fair, 60% good and 8% excellent. Corn 85% planted, 78% 1991, 84% avg.; 2% poor, 25% fair, 65% good, 8% excellent. Soybeans 60% planted, 50% 1991, 48% avg. Winter wheat 51% very poor, 31% poor, 12% fair, 6% good.

WYOMING: Warm weather continues. Temperatures 5 to 10° above normal across much of the State. Warmest in southeastern areas with one area nearly 11° above normal. Precipitation was below normal across the south, east. Rainfall was above normal across the north, far west. Some places received over a half of an inch above normal.

Days suitable for fieldwork 5.4. Topsoil 57% short, 43% adequate. Subsoil 62% short, 38% adequate. Spring wheat 85% emerged, 81% 1991, 88% avg.; 5% jointed not in boot, 1% boot. Oats 75% emerged, 80% 1991, 81% avg.; 9% jointed not in boot. Barley 89% emerged, 90% 1991, 92% avg.; 8% jointed not in boot. Sugarbeets 67% emerged, 80% 1991, 92% avg. Corn 93% planted, 78% 1991, 88% avg.; 43% emerged, 51% 1991, 52% avg. Potatoes 72% planted, 91% 1991, 80% avg.; 48% emerged, 37% 1991, 49% avg. Dry beans 25% planted, 29% 1991, 43% avg.; 4% emerged, 7% 1991, 13% avg. Winter wheat 20% emerged not jointed, 46% jointed not in boot, 33% boot, 1% headed. Current winter wheat 2% very poor, 40% poor, 53% fair, 5% good. Current barley 1% very poor, 21% poor, 8% fair, 68% good, 2% excellent. Current oat 3% very poor, 23% poor, 36% fair, 38% good. Current spring wheat 6% very poor, 8% poor, 61% fair, 25% good. Current sugarbeet 8% very poor, 14% poor, 28% fair, 43% good, 7% excellent. Range livestock moved to summer ranges: cattle, calves 53%; sheep, lambs 48%. Range, pasture 78% of normal.

International Weather and Crop Summary HIGHLIGHTS

May 17 - 23, 1992

FSU: In western crop areas, rain benefits heading winter grains in southern Ukraine and North Caucasus. In the New Lands, light showers moisten topsoils for planting in the west, while a heat wave covers the east.

EUROPE: Showers benefit crops along the Mediterranean, but dryness prevails in the north.

SOUTH ASIA: Heavy rain, with some flooding, covers rice areas of eastern India and Bangladesh. A cyclone hits Myanmar.

SOUTHEAST ASIA: Beneficial rains continue over Indochina, spurring corn and rice planting.

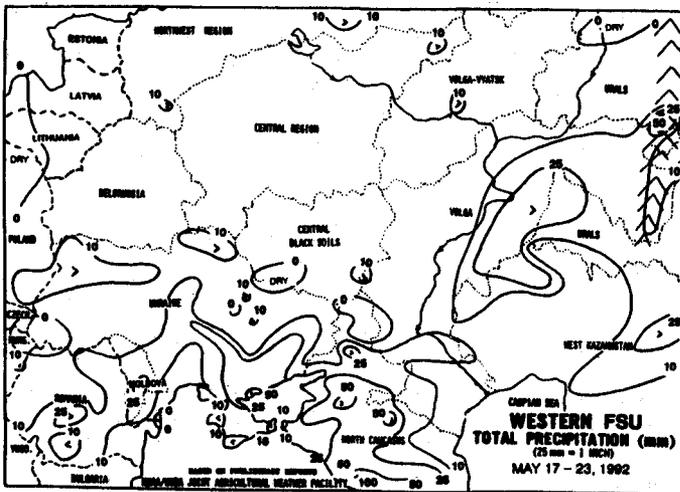
EASTERN ASIA: Summer crop planting continues in the north, while showers keep rice reservoir levels high in the south.

AUSTRALIA: Winter grain harvesting progresses countrywide, while rains benefit western topsoils.

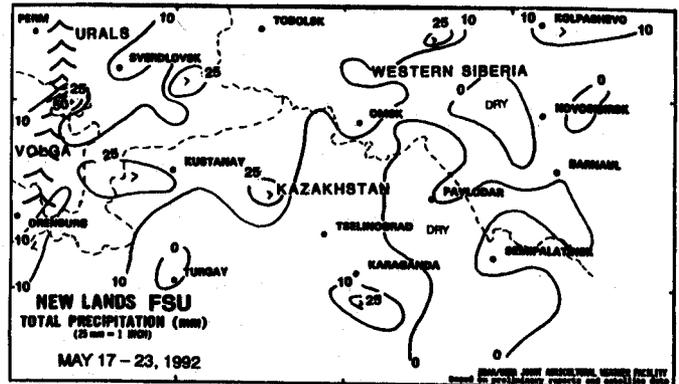
CANADA: The Prairies are generally cool and wet, although the chronically dry southwest receives only light rain.

SOUTH AMERICA: Soybean harvesting nears completion in Brazil. Dry weather favors fieldwork across Argentina.

MEXICO: Rain favors eastern corn, sugarcane, and coffee.



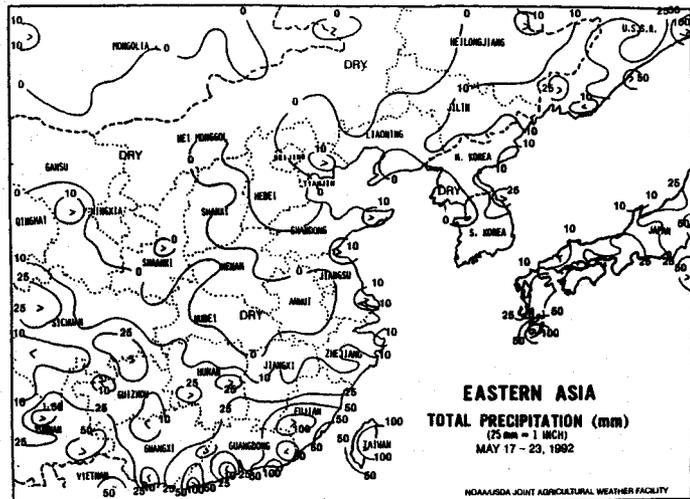
FSU: In western crop areas of the former Soviet Union (FSU), widespread light to moderate rain (10-40 mm, with local amounts in excess of 50 mm) covered southern Ukraine and the southern two-thirds of the North Caucasus. The rain benefited winter grains entering the heading stage, spring barley in the jointing stage, as well as emerging corn, sunflower, and sugarbeets. Little, if any, precipitation fell over northeastern Ukraine, the northern tip of the North Caucasus, eastern Black Soils Region, and lower Volga, where moisture reserves remained limited. However, average temperatures were 3-6 degrees Celsius (C) below normal in these areas, lowering crop stress. Further north, light precipitation (3-6 mm) over the Baltic States, Belarussia, Central Region, and the Volga Vyatsk caused only minor planting delays. Average temperatures over most of the region were 2-6 degrees C below normal, slowing winter grain development and summer crop emergence.



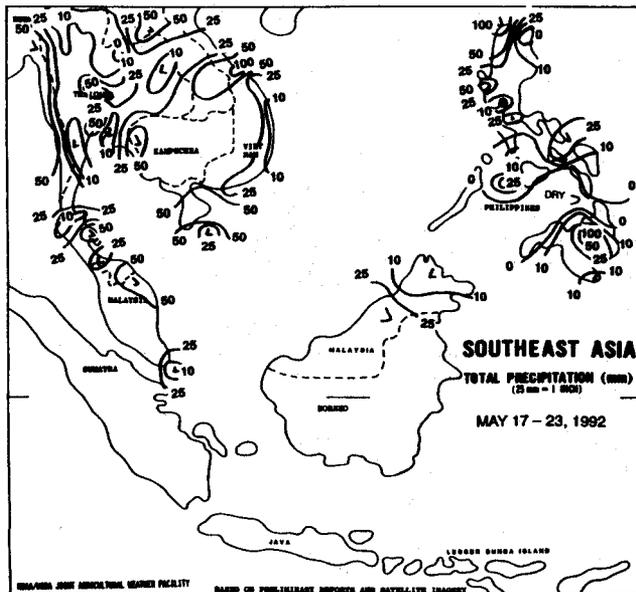
In the **New Lands**, spring grain planting was well underway. Although light rain (10-25 mm), which fell in a band that stretched northeastward from Orenburg through Kustanay and into Omsk, slowed planting, it increased topsoil moisture for crop emergence. Mostly dry weather covered eastern spring grain areas, allowing planting to progress rapidly. However, average temperatures in the east were 10 degrees C above normal, with highest temperatures ranging from 30 to 33 degrees C. The unseasonably warm weather caused rapid drying of topsoils, and rain is needed for uniform crop emergence.



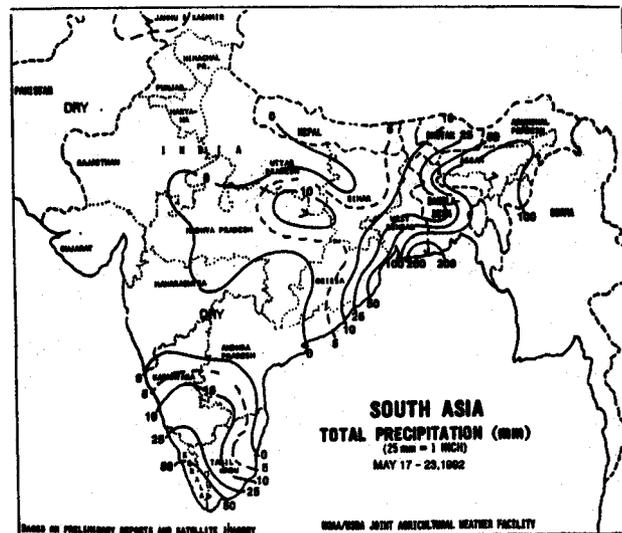
EUROPE: Shower activity increased along the Mediterranean region, while dryness extended across northern Europe. Rainfall averaging 10-30 mm, with scattered heavier amounts (31-90 mm), moistened topsoils for summer crops from the northern Iberian Peninsula across southern France and Italy's Po Valley to southeastern Europe. The beneficial moisture reached southwestern Hungary and southern Romania. Light rain (1-7 mm) sprinkled the remainder of Hungary and northwestern Romania, where prolonged dryness was stressing reproductive winter grains and emerging summer crops. Dry weather prevailed from southern England and northern France to northern Poland, as a persistent high pressure system stagnated over Scandinavia. As a result, temperatures averaged 3-5 degrees C above normal in the west, slightly above normal in the northeast, and somewhat below normal in the southeast. The warm weather across the north accelerated crop.



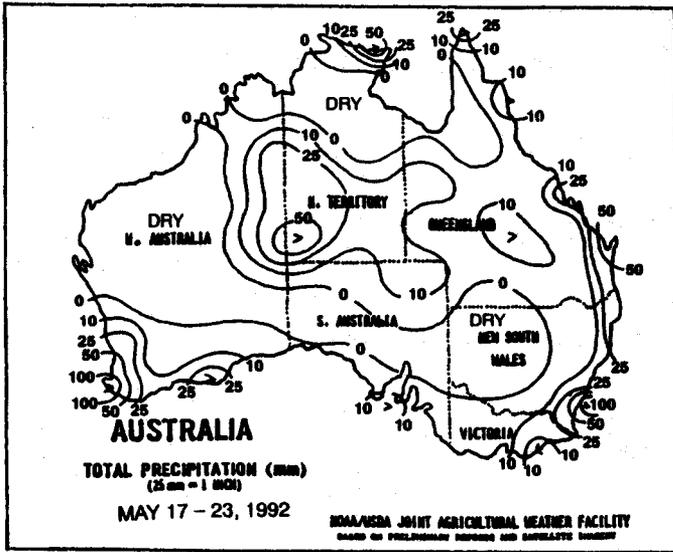
EASTERN ASIA: The North China Plain and Manchuria received only light rain (3-14 mm), slowing corn and soybean planting but favoring germination. Additional moisture would benefit topsoils for germination across Manchuria. Northern winter wheat should be entering the filling stage. Scattered showers (24-92 mm) fell across southern China, keeping rice irrigation supplies high. Temperatures averaged 3-5 degrees C below normal across southern China and near normal across the North China Plain and Manchuria.



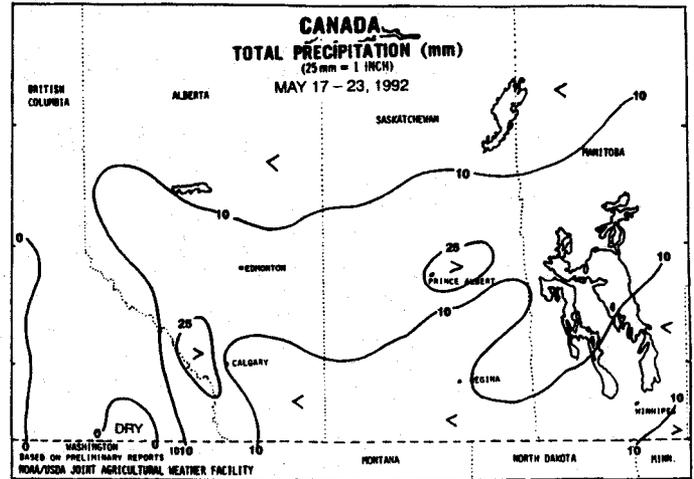
SOUTHEAST ASIA: Widespread, variable showers (10-81 mm) continued over Indochina, improving prospects for rice and corn planting. However, amounts were below normal over much of Thailand, and continuing above-normal temperatures maintained high evapotranspiration rates. Further south, rainfall (10-56 mm) was lighter than last week's inundating totals over Malaysia. In the Philippines, rainfall (25 mm or less) continued unseasonably light over most primary crop regions, although locally heavy showers (25-137 mm) dotted the islands.



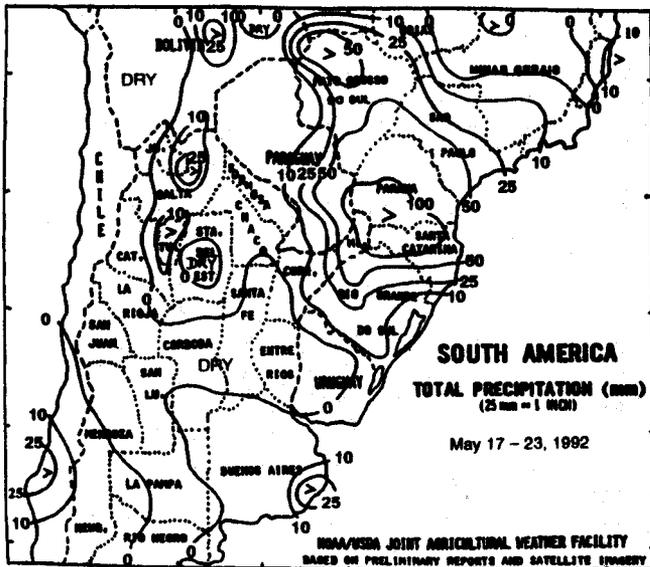
SOUTH ASIA: Heavy showers (50-100 mm or more, with isolated accumulations near 200 mm) fell over primary rice areas of eastern India and Bangladesh, boosting moisture reserves for main-season planting but causing some flooding. The rain was caused partly by the cyclone that hit Myanmar on the 19th. While no data were received for coastal Myanmar, the storm, which made landfall with winds of 75 knots, likely brought heavy showers, flooding, and localized crop damage to coastal areas. Elsewhere, moderate to heavy showers (10-92 mm) continued over southwestern India, improving conditions for early summer crop planting. Most crop areas of central and northwestern India and Pakistan were dry, but temperatures averaged near to below normal, reversing the recent trend. However, highs reached the low to mid 40's C, maintaining stressful conditions for livestock in the area.



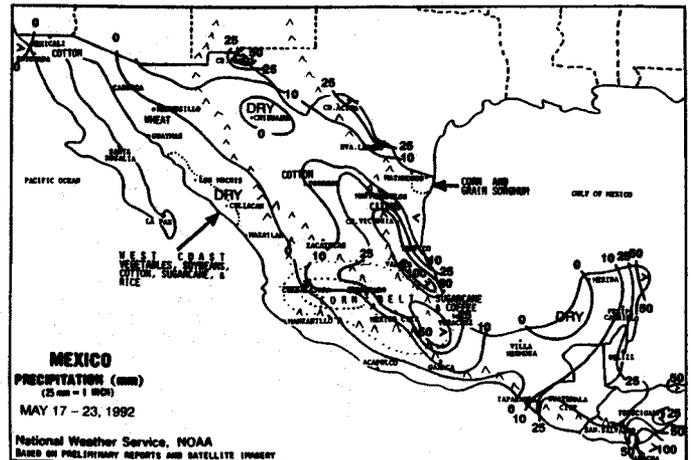
AUSTRALIA: Light to moderate rain (9-37 mm) favored topsoil moisture for western winter grains, where planting should be beginning. Across eastern Australia, dry weather aided winter grain planting and late summer crop harvesting. Soil moisture levels were mostly adequate across the east, but additional planting moisture would be helpful in central and southern New South Wales. Temperatures averaged 1-3 degrees C below normal across the western and eastern winter grain regions.



CANADA: Precipitation (10 mm or less) was unfavorably light over southern Alberta and most of southern and central Saskatchewan, where moisture is needed for spring wheat establishment. However, heavier precipitation (10-27 mm), some in the form of snow, fell across northern Alberta and Saskatchewan. Precipitation was lighter than recent weeks in Manitoba, ranging from 5 to 16 mm. Temperatures averaged near to below normal over southern Saskatchewan and Manitoba, but cooler-than-normal weather prevailed elsewhere, with subfreezing temperatures occurring over many crop areas. Although moisture is needed in the southwestern Prairies for normal crop development, drier and warmer weather would be welcomed in most other Prairie crop areas for planting and germination of spring grains and oilseeds. In Ontario, light to moderate rain (3-29 mm) and warmer-than-normal temperatures benefited vegetative winter wheat.



SOUTH AMERICA: Moderate to heavy rain (47-160 mm) across southern Brazil delayed late fieldwork, as soybean harvesting neared completion. The rains aided winter wheat emergence but slowed citrus and coffee harvesting in Sao Paulo, while drier weather favored coffee harvesting in Minas Gerais. Little or no rain fell across Argentina, helping corn and soybean harvesting and winter wheat planting. Southern Paraguay continued to receive scattered moderate showers (44-90 mm), which again delayed cotton and soybean harvesting. Temperatures averaged 1-3 degrees C below normal across central Argentina and extreme southern Brazil and 2-3 degrees C above normal across the rest of southern Brazil.



MEXICO: Moderate to heavy rain (43-161 mm) fell across the east-central portions of the country, favoring corn, sugarcane, and coffee. Little or no rain fell elsewhere, aiding summer grain planting. Widespread rains across Central America indicated that the main rainy season should start within the next several weeks.

El Niño and U.S. Corn Belt Rainfall

The graphs on the following pages show the variability of rainfall from normal in four U.S. Corn Belt cities between May and August in the year following the onset of an El Niño event (for example, 1992). For Des Moines, IA, Peoria, IL, and Columbus, OH, data is shown for the past 100 years (1892-1991), covering 23 El Niño events. For Indianapolis, IN, data since 1948 is depicted, covering 10 El Niño events. For classification purposes, rainfall is considered to be normal if it is within 50 mm of the long-term average, and above or below normal on either side of this threshold.

In Des Moines, IA, May to August rainfall in the year following an El Niño onset was above normal eight times, below normal six times, and within 50 mm of normal on nine occasions (fig. 1). The 100-year average May to August rainfall in Des Moines is 400 mm (15.73 inches).

In Peoria, IL, rainfall was above normal seven times, below normal five times, and within 50 mm of normal on eleven occasions (fig. 2). The 100-year average May to August rainfall in Peoria is 373 mm (14.68 inches).

In Indianapolis, IN, rainfall was above normal twice, below normal four times, and within 50 mm

of normal on four occasions (fig. 3). The 34-year average May to August rainfall in Indianapolis is 391 mm (15.37 inches).

In Columbus, OH, rainfall was above normal five times, below normal seven times, and within 50 mm of normal on eleven occasions (fig. 4). The 100-year average May to August rainfall in Columbus is 363 mm (14.28 inches).

Though the data indicate a slight tendency toward wetness in the western Corn Belt and dryness in the eastern Corn Belt, recent years' data seem to refute this claim. In Indianapolis, four El Niño events have passed since rainfall was below normal in May-August 1970 (fig. 3). And in Columbus, nearly 40 years and nine El Niño events have passed since the dryness of May-August 1952 (fig. 4). Farther west, year-after-El Niño years have brought mixed returns. For example, Des Moines experienced dryness in 1983, but wetness in 1987. Therefore, it appears that the mechanisms controlling the U.S. Corn Belt's weather during the year following an El Niño onset are more complex than the atmospheric perturbations associated with an El Niño event.

--Brad Rippey

Figure 1
DES MOINES, IA
RAINFALL DEPARTURE FROM NORMAL, MAY-AUG

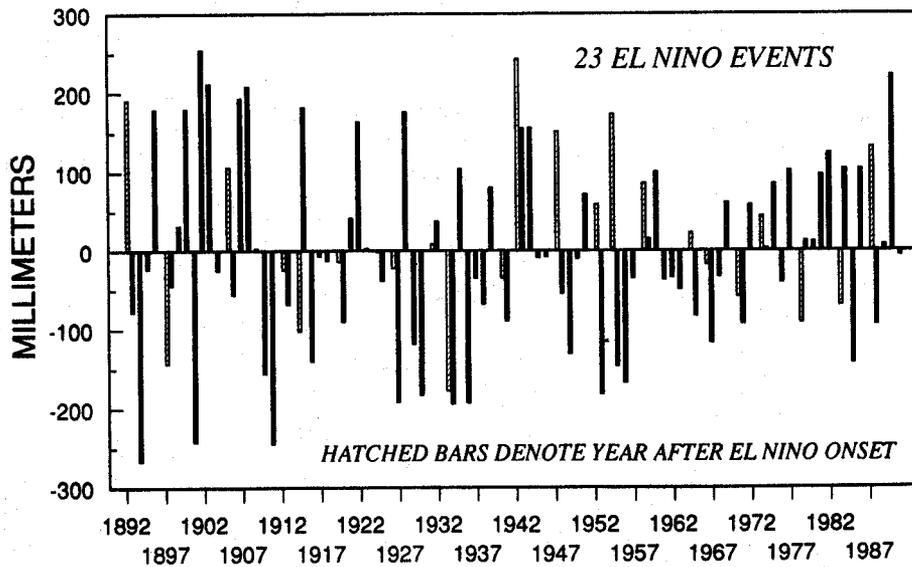


Figure 2 **PEORIA, IL**
RAINFALL DEPARTURE FROM NORMAL, MAY-AUG

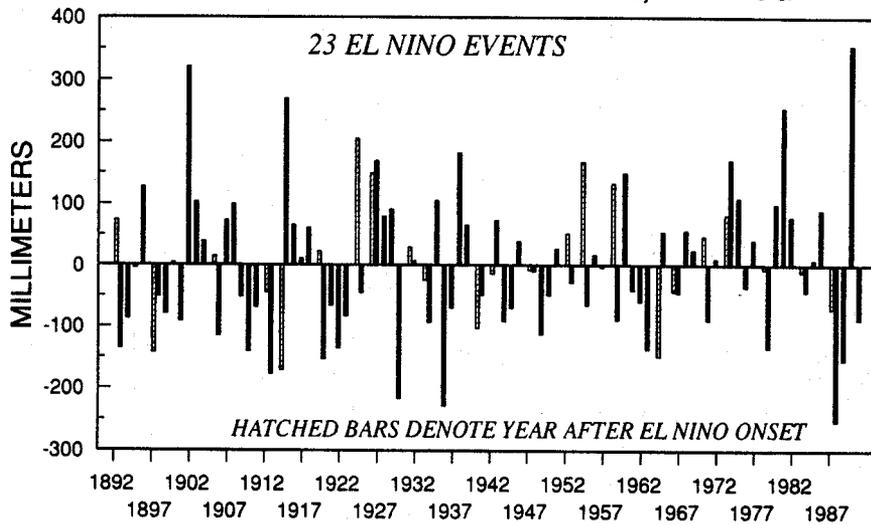


Figure 3 **INDIANAPOLIS, IN**
RAINFALL DEPARTURE FROM NORMAL, MAY-AUG

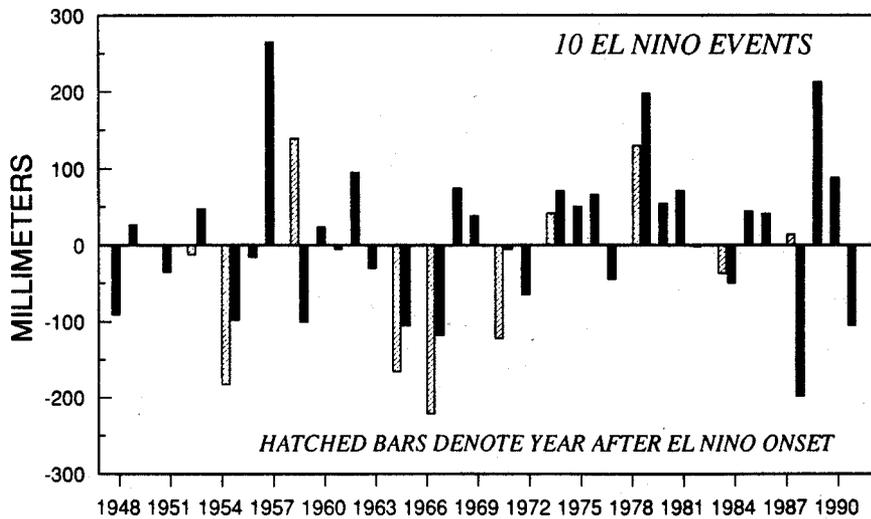
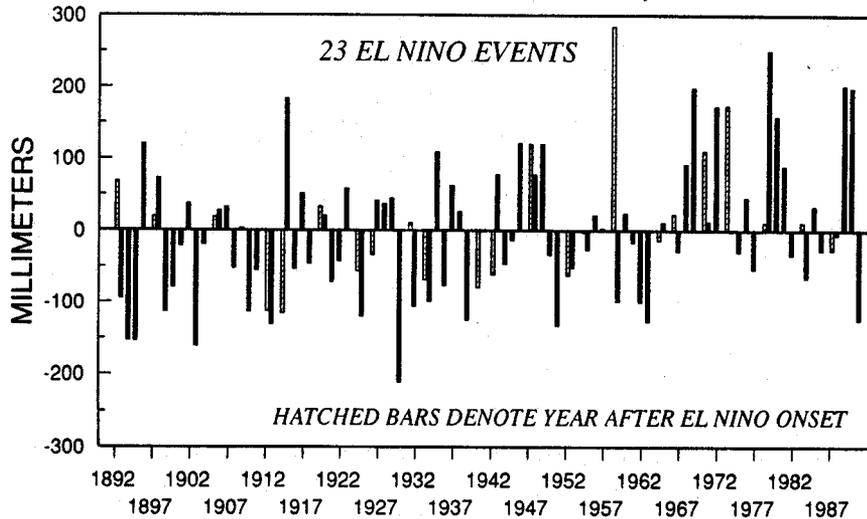


Figure 4 **COLUMBUS, OH**
RAINFALL DEPARTURE FROM NORMAL, MAY-AUG



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