

WEEKLY WEATHER AND CROP BULLETIN

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

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

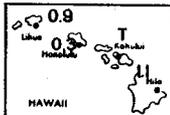
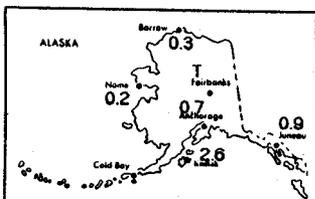
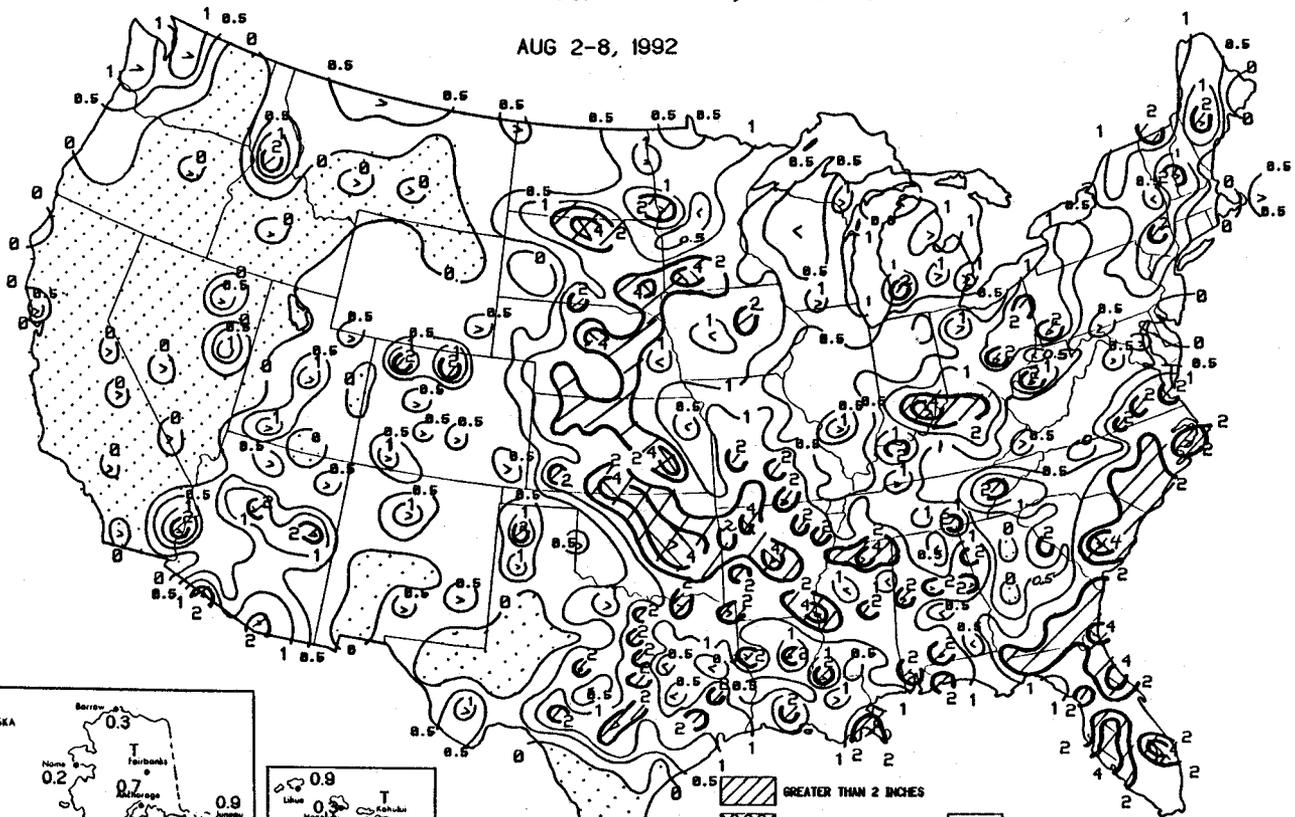
Volume 79, No. 32

Washington, D.C.

August 11, 1992

TOTAL PRECIPITATION, INCHES

AUG 2-8, 1992



NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary reports

HIGHLIGHTS

August 2 - 8, 1992

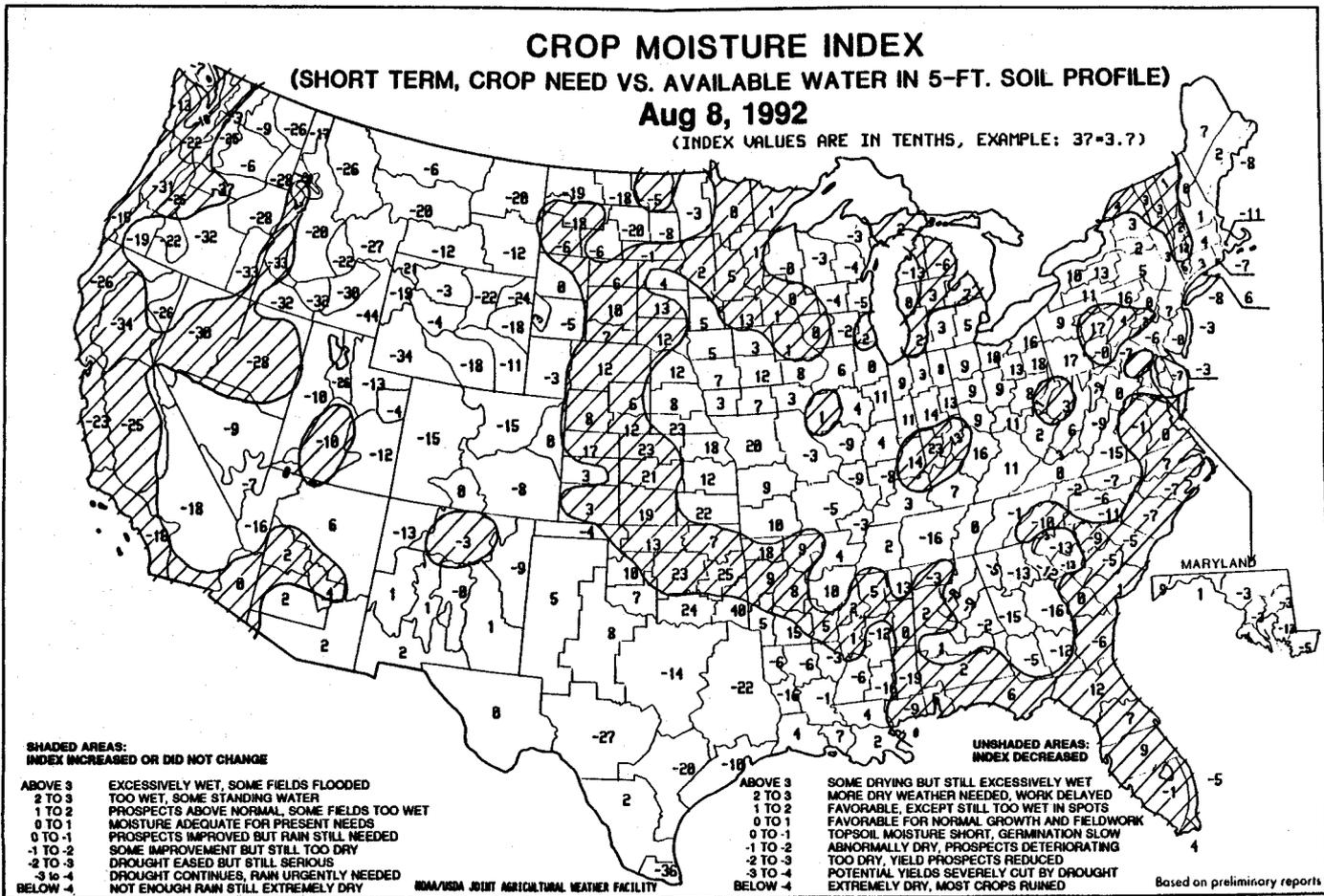
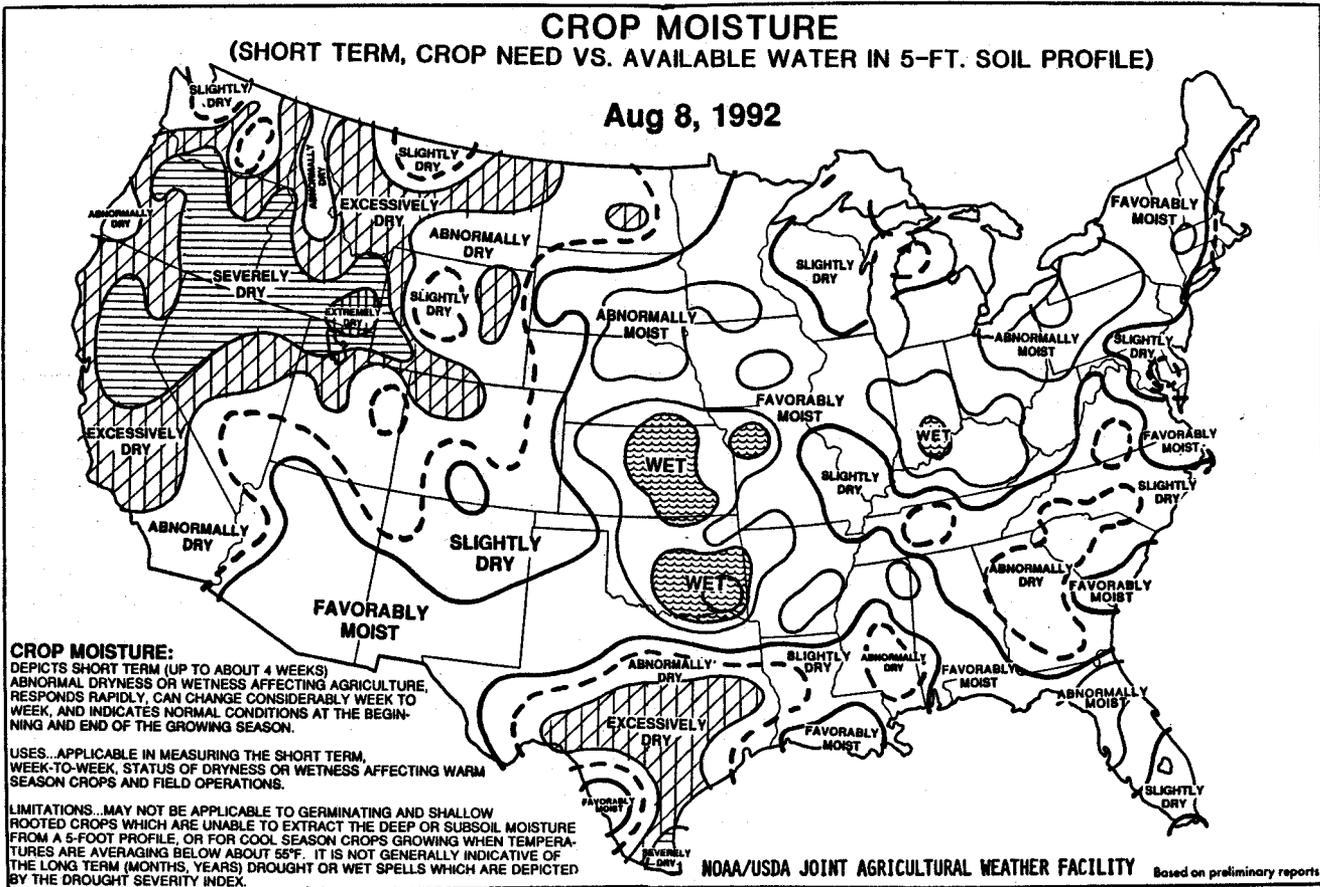
An early-week cold front brought yet another round of record coolness to the **Central and Eastern States** as the **West** sweltered, but a late-week Pacific storm temporarily reversed the trend, pushing the warmest air of the year into parts of the **Plains**. Daily record lows were set in about 2 dozen locations during the first half of the week, while locally heavy thunderstorms affected the **Plains** and the **East Coast States**. **St. Cloud, MN**, tied or established its ninth daily record low since June 20 with a reading of 44°F on the 5th (preceded by 42°F on the 4th). Local flooding developed by midweek from **Nebraska** to **Arkansas**, as heavy rain fell on previously saturated soils. In **Nebraska**, flooding occurred along the **North Loup River** in Howard County. Up to 4 inches of rain deluged **southeastern Kansas** and **southwestern Missouri**. Nearly 5 inches of rain fell on Wednesday morning in **Ozark, AR**. And major flooding resulted from 2 days of intense rains in **east-central Oklahoma**, where

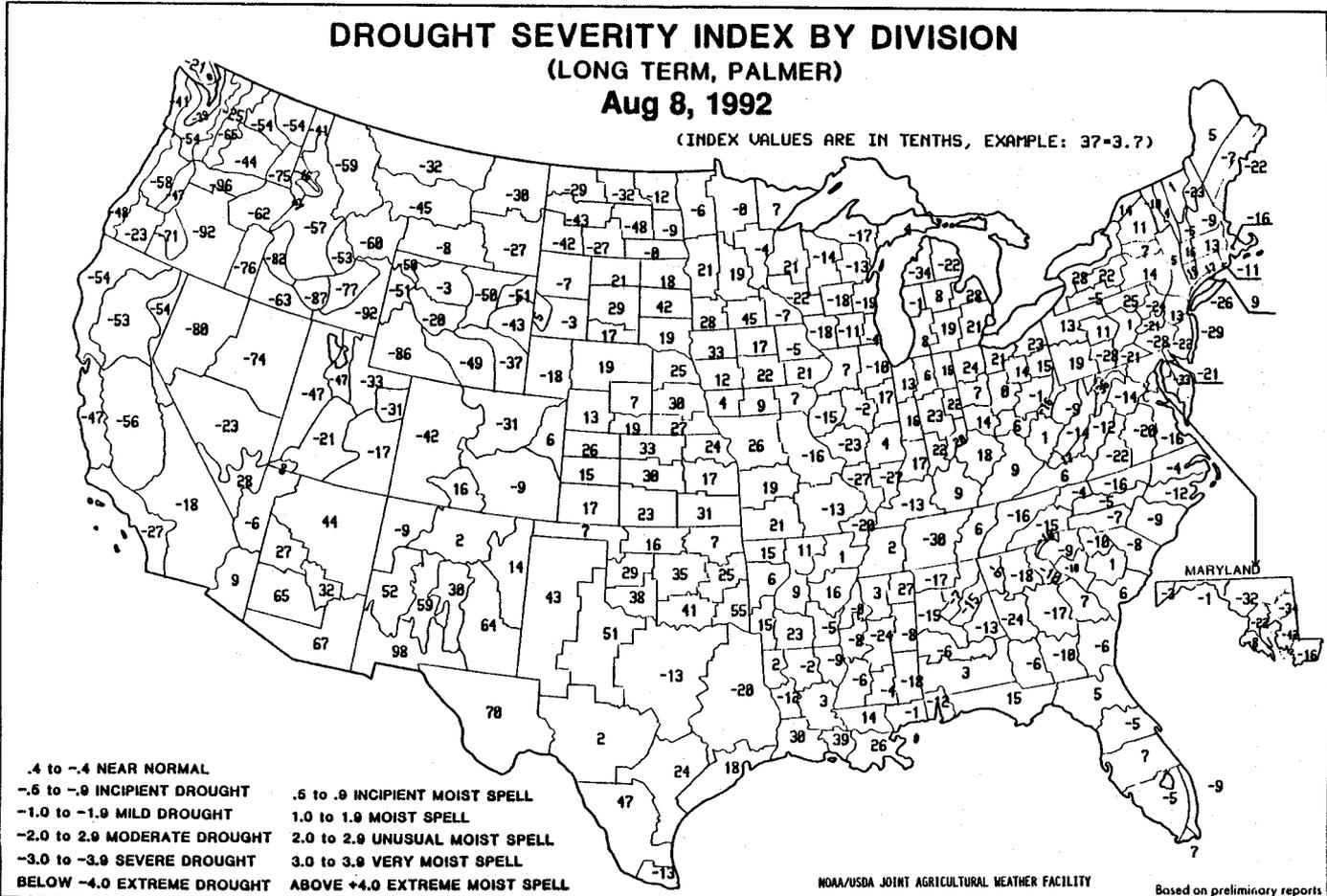
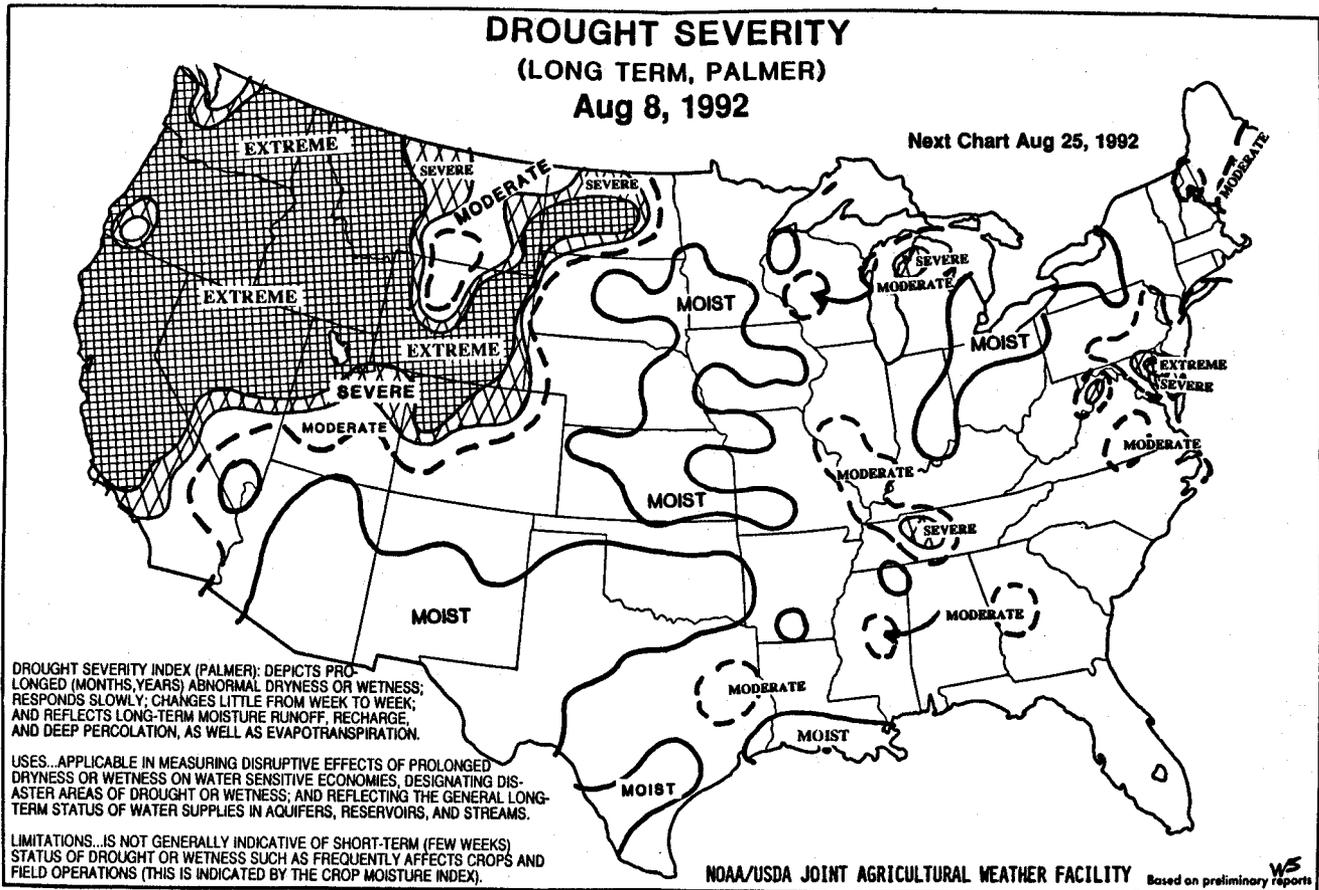
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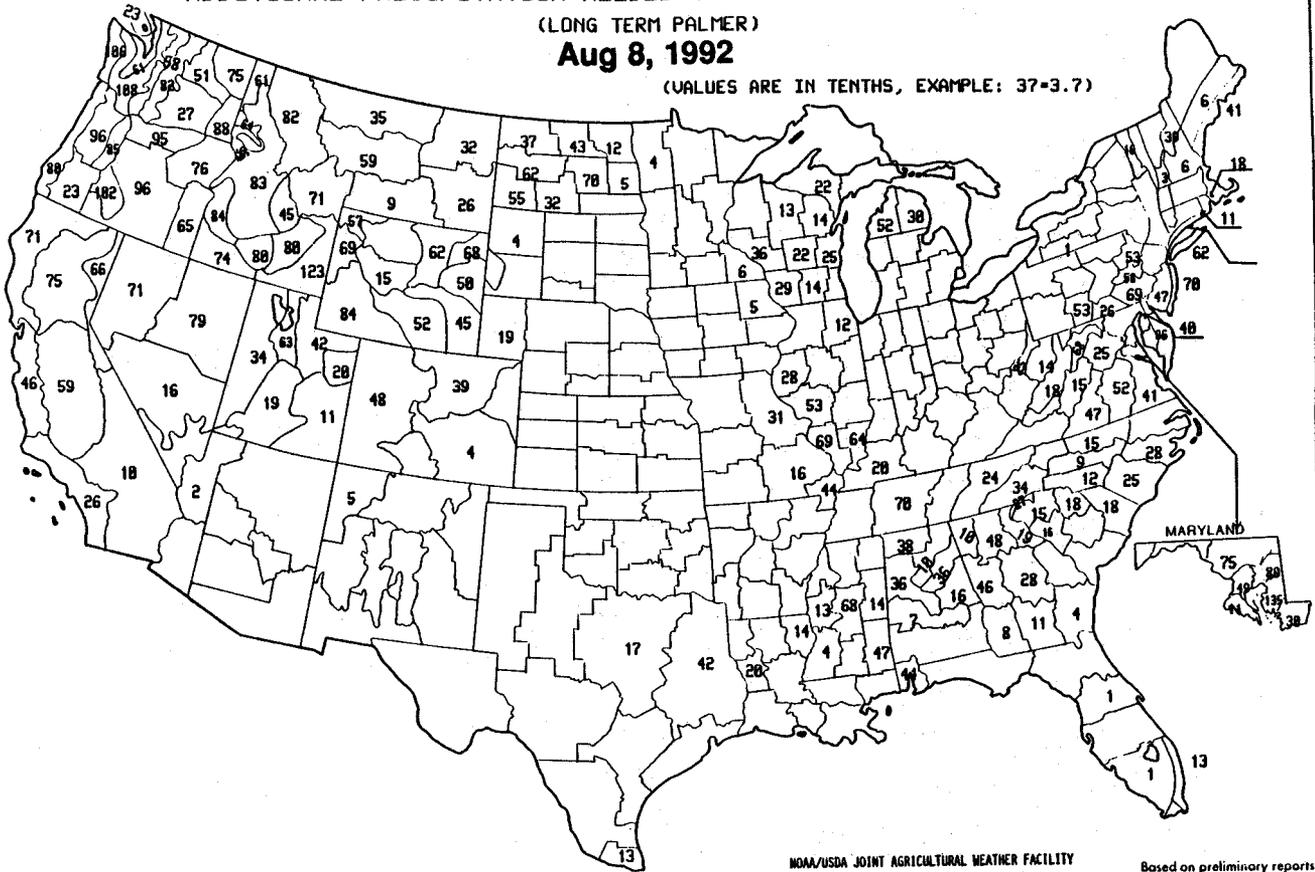


ADDITIONAL PRECIPITATION NEEDED TO BRING INDEX NEAR ZERO

(LONG TERM PALMER)

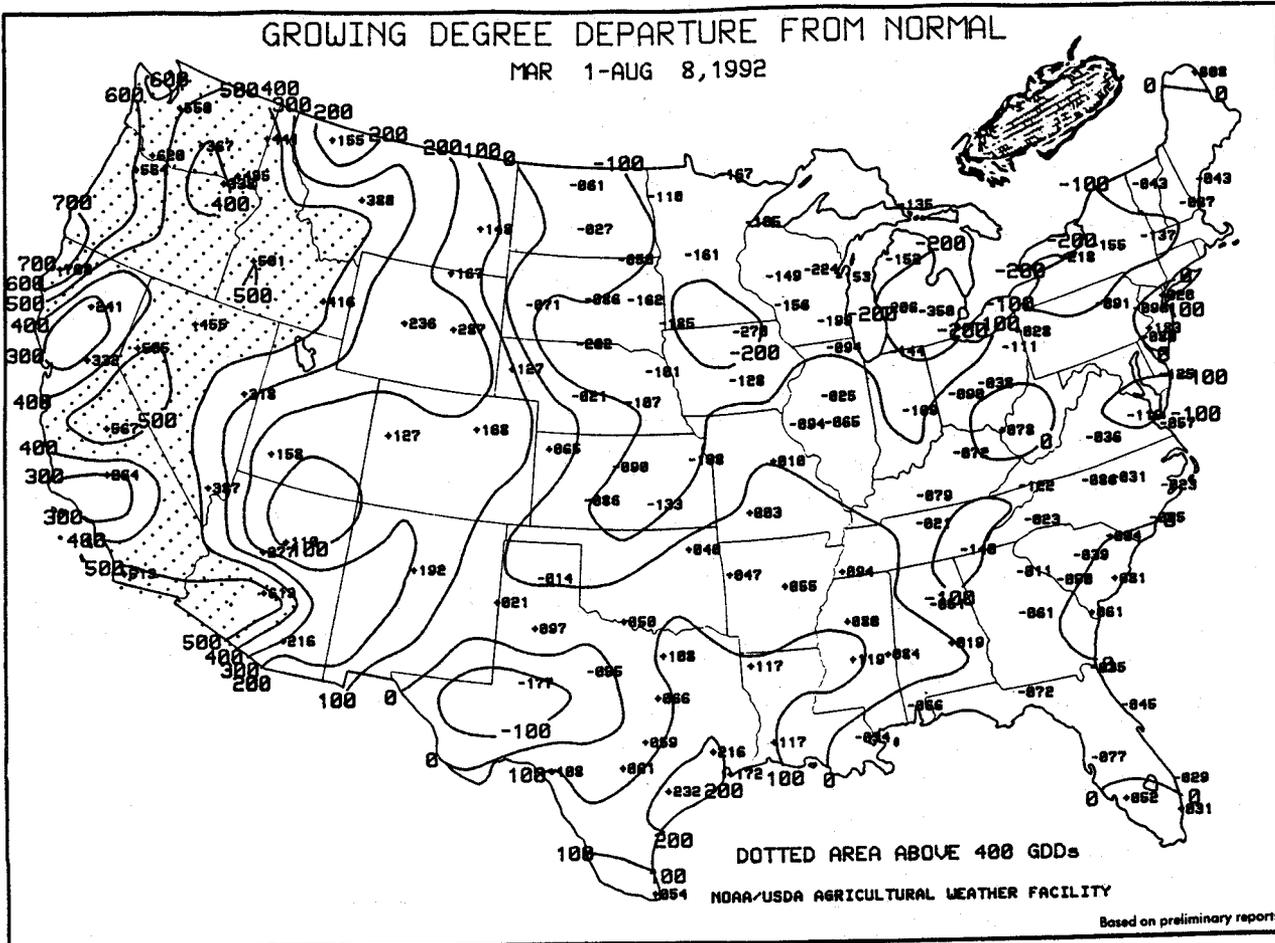
Aug 8, 1992

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



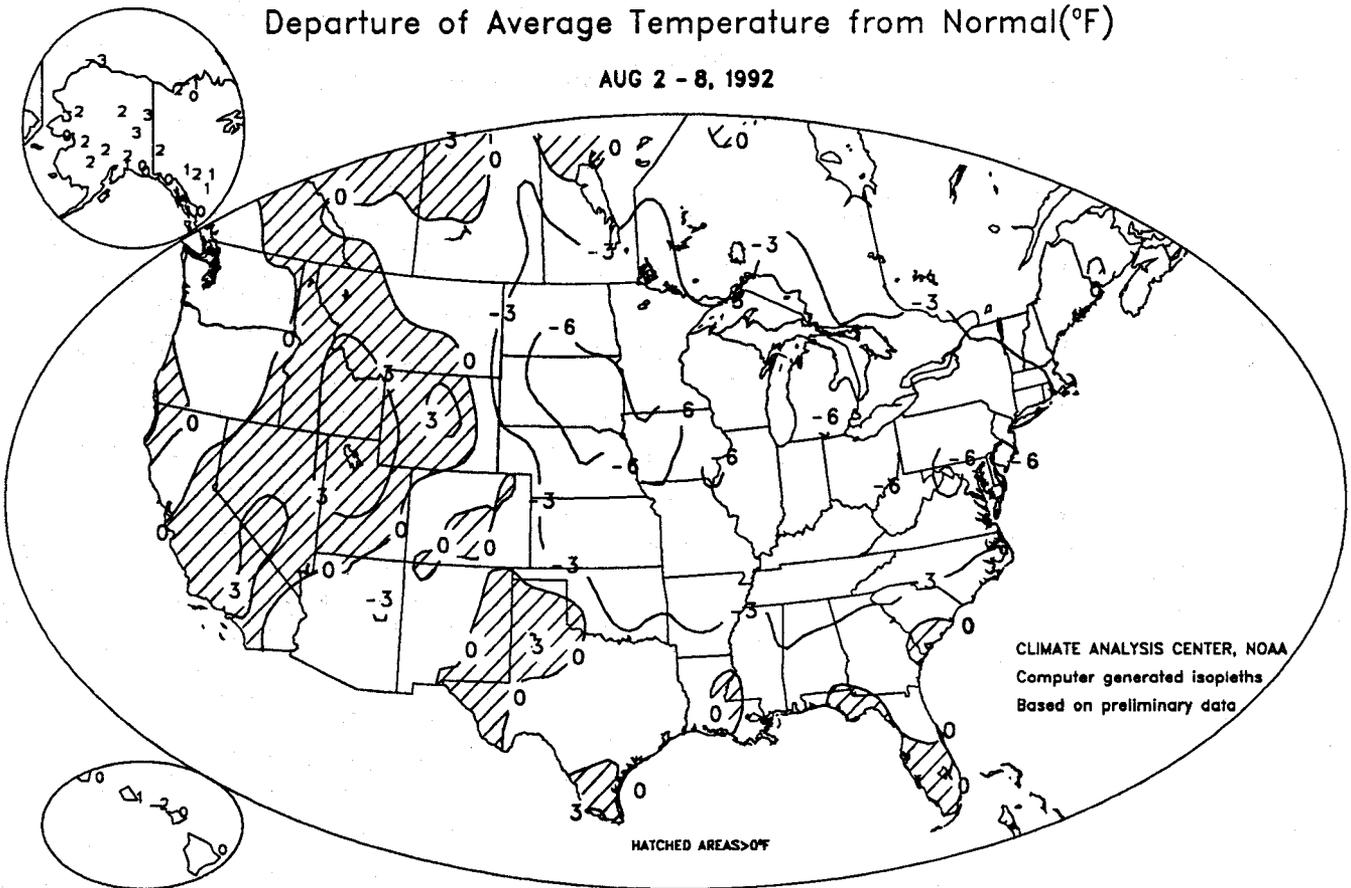
GROWING DEGREE DEPARTURE FROM NORMAL

MAR 1-AUG 8, 1992



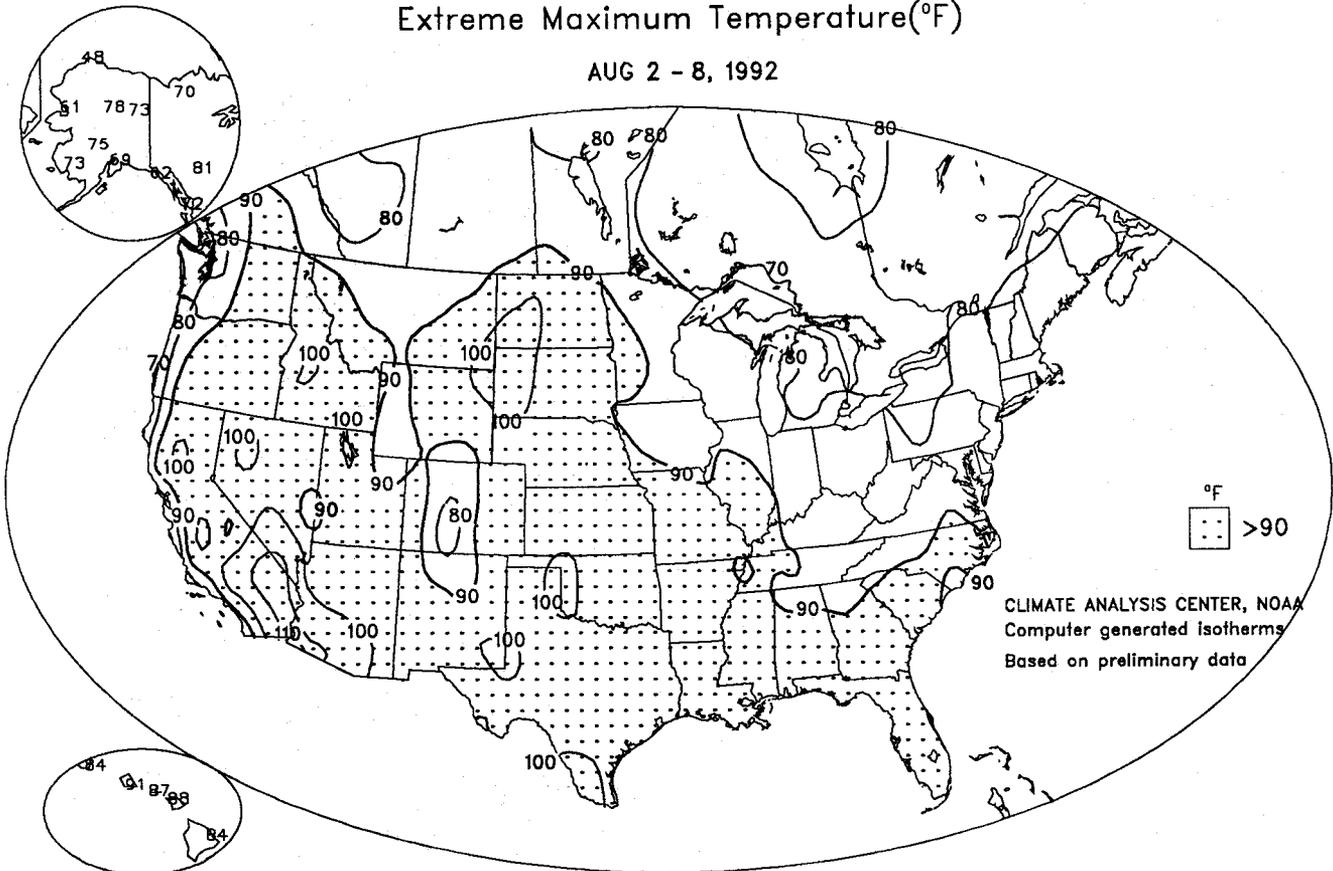
Departure of Average Temperature from Normal(°F)

AUG 2 - 8, 1992



Extreme Maximum Temperature(°F)

AUG 2 - 8, 1992



National Weather Data for Selected Cities

Weather Data for the Week Ending August 8, 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 Jun 1	PCT. NORMAL SINCE Jun 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		
AL BIRMINGHAM	88	66	91	60	77	-3	.2	.7	.2	13.4	133	28.3	78	98	56	3	0	3	0	3	0	
AL MOBILE	91	72	93	69	82	-1	3.1	1.5	2.6	16.1	110	43.1	104	99	56	6	0	3	1	3	1	
AL MONTGOMERY	92	68	94	66	80	-2	.1	.6	2.1	15.3	169	39.3	123	100	52	7	0	2	0	2	0	
AK ANCHORAGE	65	53	69	49	59	1	.7	.3	.4	2.7	76	5.9	84	94	58	0	0	4	0	4	0	
AK BARROW	40	31	49	27	36	-3	.3	.0	.2	4.7	48	1.2	52	99	81	0	0	4	0	4	0	
AK FAIRBANKS	73	51	81	48	62	3	.4	.4	.4	4.5	125	7.8	134	94	45	0	0	1	0	1	0	
AK JUNEAU	64	52	69	45	58	2	1.0	.0	1.0	9.2	110	44.0	173	98	72	0	0	1	1	1	1	
AK KODIAK	60	52	71	48	56	1	2.6	1.7	1.0	10.4	118	36.8	113	97	81	0	0	6	6	2	2	
AK NOME	57	44	64	40	51	-1	.2	.5	1.1	1.2	29	3.5	49	91	66	0	0	3	3	0	0	
AZ PHOENIX	102	79	107	74	91	-1	1.1	.8	.8	3.3	285	9.9	272	70	31	7	0	0	0	0	0	
AZ PRESCOTT	84	61	94	60	73	-1	1.5	.8	.8	3.6	87	11.0	146	89	42	1	0	0	2	2	1	
AZ TUCSON	99	71	105	70	85	0	1.7	1.1	1.4	2.9	85	9.3	158	85	30	0	0	0	0	0	0	
AZ YUMA	106	83	108	79	94	-1	1.3	.7	.7	0.0	0	3.2	280	114	97	62	7	0	0	0	0	
AR FORT SMITH	88	70	94	67	79	-3	.7	.7	.7	13.5	181	28.2	112	88	67	4	0	0	0	0	0	
AR LITTLE ROCK	87	70	94	67	79	-4	3.6	2.9	2.5	14.5	183	31.8	104	88	67	4	0	0	0	0	0	
CA BAKERSFIELD	100	68	101	66	84	0	.0	.0	.0	5.0	50	5.7	147	55	15	0	0	0	0	0	0	
CA BUREKA	65	56	71	54	60	4	.0	.0	.0	1.5	225	15.3	68	93	75	0	0	1	0	0	0	
CA FRESNO	99	66	103	64	83	3	.0	.0	.0	3.2	367	9.2	132	54	15	0	0	0	0	0	0	
CA LOS ANGELES	79	67	82	66	73	2	.0	.0	.0	.2	>1000	11.9	143	93	64	0	0	0	0	0	0	
CA REDDING	97	62	102	58	80	-3	.0	.0	1.7	155	20.2	81	66	18	0	0	0	0	0	0	0	
CA SACRAMENTO	93	58	99	56	76	0	.0	.0	.0	.3	231	10.1	95	81	25	5	0	0	0	0	0	
CA SAN DIEGO	78	69	79	68	74	2	.0	.0	.0	1.1	117	10.0	162	85	65	0	0	0	0	0	0	
CA SAN FRANCISCO	70	55	75	52	63	0	.0	.0	.0	4	355	13.3	107	93	59	0	0	0	0	0	0	
CO DENVER	88	58	92	52	73	0	1.1	.3	1.1	4.3	110	10.7	102	79	24	3	0	1	0	1	0	
CO GRAND JUNCTION	91	64	99	59	77	0	2.2	.0	1.1	1.3	122	5.6	126	62	23	4	0	2	0	0	0	
CO FUEBLO	92	58	99	52	75	-1	2.2	.3	2.2	4.7	133	7.1	98	61	23	5	0	1	0	1	0	
CT BRIDGEPORT	80	60	83	57	70	-4	.6	.6	.6	9.5	130	21.9	89	90	48	0	0	1	1	1	0	
CT HARTFORD	81	56	84	53	69	-4	1.1	.8	1.1	10.5	142	25.6	100	93	42	0	0	1	1	1	0	
DC WASHINGTON	83	64	88	62	74	-5	.5	.5	.5	8.2	98	22.7	96	89	48	0	0	1	1	1	1	
FL APALACHICOLA	92	74	94	72	83	1	5	-1.1	1.5	8.9	64	27.2	87	99	61	7	0	4	3	4	3	
FL DAYTONA BEACH	90	71	94	68	81	-1	2.7	1.4	1.2	13.5	101	25.9	93	99	61	5	0	4	1	1	1	
FL JACKSONVILLE	94	72	97	71	83	1	6.0	4.3	2.6	16.4	115	40.2	127	98	54	7	0	6	4	4	4	
FL KEY WEST	90	79	92	75	84	0	1.5	.6	.9	14.5	150	21.8	112	84	63	4	0	5	1	1	1	
FL MIAMI	89	77	92	75	83	1	1.8	.6	1.8	18.4	110	27.3	84	90	62	4	0	4	1	1	1	
FL ORLANDO	92	73	94	72	82	0	1.3	.2	1.3	12.7	76	30.5	96	100	55	6	0	5	0	5	0	
FL TALLAHASSEE	93	70	95	68	82	0	2.2	.5	.9	20.4	118	42.8	102	99	51	7	0	6	2	2	2	
FL TAMPA	91	74	93	72	83	1	.9	-.9	-.9	11.9	81	20.2	71	96	57	6	0	4	0	4	0	
FL WEST PALM BEACH	89	74	92	71	82	-1	1.9	.8	.7	20.9	138	32.7	100	93	59	3	0	3	2	2	2	
GA ATLANTA	86	69	89	64	77	-2	T	-.8	T	13.2	145	27.3	83	94	56	0	0	0	0	0	0	
GA AUGUSTA	91	69	94	67	80	-1	1.1	-.8	1.1	12.0	128	28.6	98	99	50	5	0	2	0	0	0	
GA MACON	90	71	93	68	81	-1	1.5	-.4	.3	15.9	173	33.1	108	96	53	5	0	2	0	0	0	
GA SAVANNAH	92	73	96	72	83	1	3.1	1.6	1.7	18.2	122	35.2	106	96	53	5	0	6	2	2	2	
HI HILO	83	69	85	67	76	0	1.1	-1.3	.6	27.4	156	43.5	57	94	64	0	0	5	1	1	1	
HI HONOLULU	89	75	91	72	82	2	.3	.2	.3	2.2	190	5.9	43	76	49	1	0	2	0	2	0	
HI KARULUI	87	70	88	63	79	0	T	-.1	T	1.4	206	7.7	64	86	55	0	0	0	0	0	0	
HI LIHUE	85	75	85	72	80	1	.9	.5	.7	3.7	90	15.2	61	86	63	0	0	3	1	1	1	
ID BOISE	94	57	100	53	76	2	0	-.1	0	2.1	177	4.2	58	49	16	6	0	0	0	0	0	
ID LEWISTON	88	60	96	57	74	0	.2	.1	.2	2.2	107	6.3	79	49	17	3	0	2	0	2	0	
ID POCATELLO	94	59	100	53	76	5	T	-.1	T	2.1	130	4.3	64	48	12	6	0	0	0	0	0	
IL CHICAGO	78	57	85	53	68	-5	.9	.2	.5	6.0	72	13.5	64	94	52	0	0	3	1	1	0	
IL MOLINE	80	58	90	51	69	-5	.2	-.7	2.2	14.1	138	21.4	89	98	54	1	0	1	0	1	0	
IL PEORIA	79	60	90	54	70	-5	T	-.8	T	9.0	103	16.6	74	94	56	1	0	1	0	1	0	
IL QUINCY	79	61	89	53	70	-6	1	-.8	1	7.2	77	17.4	74	87	53	0	0	1	0	1	0	
IL ROCKFORD	78	56	85	51	67	-6	.5	-.3	.4	6.8	68	15.3	66	93	53	0	0	3	0	3	0	
IL SPRINGFIELD	82	63	94	59	72	-3	T	-.8	T	9.2	116	17.5	80	96	55	1	0	1	0	1	0	
IN EVANSVILLE	84	64	90	59	74	-4	1.0	.3	1.0	10.9	130	22.4	81	95	53	1	0	2	1	1	1	
IN FORT WAYNE	80	57	86	54	68	-5	T	-.8	T	8.7	110	21.6	98	95	50	0	0	0	0	0	0	
IN INDIANAPOLIS	80	60	88	55	70	-4	.2	-.7	1	16.0	173	26.9	106	97	53	0	0	3	0	3	0	
IN SOUTH BEND	78	58	81	54	68	-5	.2	-.7	.2	7.2	84	16.9	73	95	51	0	0	1	0	1	0	
IA DES MOINES	80	61	89	53	71	-5	1.0	.1	.7	9.8	116	20.4	102	92	57	0	0	3	1	1	1	
IA SIOUX CITY	78	60	90	53	69	-6	1.5	.8	1.2	9.0	111	18.6	108	99	63	1	0	3	1	1	1	
IA WATERLOO	78	55	87	46	67	-6	1.1	.2	.7	8.9	89	19.0	88	96	54	0	0	3	1	1	1	
KS CONCORDIA	84	65	93	62	75	-5	1.0	.2	.5	18.8	223	28.5	157	99	59	2	0	4	0	4	0	
KS DODGE CITY	88	65	97	59	77	-3	1.0	.4	.9	10.6	158	16.1	112	95	46	3	0	2	1	1	1	
KS GOODLAND	87	60	95	58	74	-2	1.3	.8	.9	12.1	216	16.1	140	90	45	2	0	2	1	1	1	
KS TOPEKA	85	67	94	63	76	-4	1.2	.6	.6	9.9	98	22.3	104	97	61	2	0	2	0	2	0	
KS WICHITA	86	68	93	65	77	-4	1.3	.6	.6	13.8	166	23.4	128	98	59	2	0	4	1	1	1	
KY BOWLING GREEN	84	63	86	57	73	-5	1.1	.7	.7	6.8	69	23.9	74	98	56	0	0	2	0	2	0	
KY LEXINGTON	80	61	83	56	71	-5	1.9	.9	1.5	19.9	193	36.8	121	93	59	0	0	2	1	1	1	
KY LOUISVILLE	82	64	85	59	73	-5	3.2	2.4	3.1	12.7	149	28.4	101	92	54	0	0	3	1	1	1	
LA BATON ROUGE	93	73	96	72	83	-1	1.1	-.2	1	21.2	180	47.3	130	99	53	6	0	1	0	1	0	
LA LAKE CHARLES	89	73	93	71	81	-1	.7	-.5	.7	16.5	153	45.4	144	100	62	4	0	1	1	1	1	
LA NEW ORLEANS	91	73	93	68	82	0	.8	-.6	.6	16.1	124	45.2	120	98	58	7	0	5	1	1	1	

Based on 1951-80 normals.

Weather Data for the Week Ending August 8, 1992

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS							
	AVERAGE	MAXIMUM	MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Jun 1	PCT. NORMAL SINCE Jun 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE	MINIMUM	90 AND ABOVE	32 AND BELOW	TEMP. °F		PRECIP.	
																			.01 INCH OR MORE	.50 INCH OR MORE	.01 INCH OR MORE	.50 INCH OR MORE
SHREVEPORT	93	72	96	69	83	-1	T	-1.5	7.3	96	30.4	107	96	49	6	0	0	0	0	0	0	
ME CARIBOU	75	54	81	49	64	0	.3	-1.6	10.7	129	23.5	114	90	53	0	0	0	0	5	5	0	
PORTLAND	78	55	80	51	67	0	.5	-1.1	8.5	131	24.3	97	94	51	0	0	0	0	2	0	0	
MD BALTIMORE	83	60	88	57	71	-5	T	-1.1	7.0	79	20.0	79	95	49	0	0	0	0	0	0	0	
SALISBURY	82	60	86	53	71	-5	0	-1.3	7.6	80	21.8	81	98	55	0	0	0	0	0	0	0	
MA BOSTON	82	61	85	60	72	-5	T	-1.8	7.3	112	20.0	78	86	41	0	0	0	0	1	1	0	
CHATHAM	75	59	77	56	67	-1	.6	-1.3	7.9	117	19.0	71	93	69	0	0	0	0	0	0	0	
MI ALPENA	76	51	81	42	63	-3	.8	-1.1	5.9	84	14.5	84	98	45	0	0	0	0	2	2	1	
DETROIT	76	57	79	53	67	-5	1.2	-1.4	9.4	129	21.7	112	92	48	0	0	0	0	4	4	0	
FLINT	77	55	80	47	66	-4	.8	-1.0	7.7	180	23.1	129	96	53	0	0	0	0	4	4	1	
GRAND RAPIDS	76	55	79	47	66	-6	1.0	-1.3	6.6	114	15.5	115	97	53	0	0	0	0	2	2	1	
HOUGHTON LAKE	75	53	78	42	64	-3	1.0	-1.3	6.6	85	13.8	83	98	50	0	0	0	0	5	1	1	
LANSING	76	53	79	46	65	-5	.7	-1.1	6.6	9.2	129	21.4	119	98	54	0	0	0	2	2	0	
MARQUETTE	72	48	79	43	60	-4	.9	-1.2	3.3	6.4	16.8	76	92	55	0	0	0	0	3	3	0	
MUSKEGON	76	55	80	47	65	-5	.6	-1.1	5.5	4.8	13.4	75	95	50	0	0	0	0	2	2	0	
SAULT ST. MARIE	71	49	78	44	60	-4	1.3	-1.5	1.0	6.9	16.4	90	92	60	0	0	0	0	5	1	1	
MN ALEXANDRIA	77	57	93	51	67	-4	.1	-1.7	1.1	6.9	14.3	89	95	47	1	0	0	0	2	0	0	
DULUTH	73	50	86	40	62	-3	1.3	-1.4	1.2	10.0	17.8	98	95	48	0	0	0	0	4	1	1	
INT'L FALLS	74	50	82	44	62	-3	.8	-1.1	1.8	7.2	13.6	90	98	49	0	0	0	0	1	1	1	
MINNEAPOLIS	76	57	89	51	67	-6	1.9	-1.1	1.5	12.0	18.0	105	94	54	0	0	0	0	4	1	1	
ROCHESTER	74	54	86	47	64	-6	1.0	-1.2	1.5	6.1	15.0	85	98	60	0	0	0	0	4	1	1	
MS GREENWOOD	92	72	94	68	82	0	.5	-1.2	3.3	10.2	11.8	24.9	71	96	52	7	0	0	3	0	0	
JACKSON	93	70	96	69	81	0	1.6	-1.7	1.2	10.8	12.4	23.7	69	100	53	6	0	0	3	1	1	
MERIDIAN	91	70	94	70	81	0	1.2	-1.3	1.9	14.3	14.5	36.7	103	92	49	6	0	0	3	1	1	
MO CAPE GIRARDEAU	85	66	93	61	76	-6	.1	-1.8	0	7.5	9.2	20.9	73	93	53	1	0	0	2	0	0	
COLUMBIA	84	63	92	58	73	-5	.8	-1.1	1.8	7.8	10.3	17.5	76	95	55	1	0	0	1	1	1	
KANSAS CITY	82	66	93	61	74	-6	1.4	-1.5	1.2	20.7	21.3	33.7	148	98	62	1	0	0	2	1	1	
SAINT LOUIS	84	67	95	63	76	-3	.2	-1.4	1.2	5.7	7.2	16.1	72	85	48	1	0	0	1	0	0	
SPRINGFIELD	81	64	90	60	73	-5	1.6	-1.9	1.5	14.4	16.3	24.2	99	96	65	1	0	0	4	1	1	
MT BILLINGS	89	58	95	56	74	1	.1	-1.1	1.1	4.5	14.8	9.4	93	69	24	3	0	0	1	0	0	
GLASGOW	84	58	91	54	71	-1	.2	-1.2	1.2	4.7	10.3	6.4	82	80	32	1	0	0	2	0	0	
GREAT FALLS	85	54	87	48	70	0	.3	-1.0	1.3	5.4	13.2	10.0	93	76	23	0	0	0	2	0	0	
HAVRE	81	55	84	51	68	-2	.7	-1.4	1.5	4.0	10.7	5.3	64	89	39	0	0	0	2	1	1	
HELENA	89	57	92	51	73	5	T	-1.3	1.4	3.4	10.3	5.6	70	58	19	5	0	0	0	0	0	
KALISPELL	85	49	93	44	67	-2	.1	-1.3	1.0	6.1	17.7	11.2	114	86	21	1	0	0	2	0	0	
MILES CITY	89	58	96	54	74	-1	.2	-1.2	1.1	5.6	12.2	9.7	96	83	28	3	0	0	3	0	0	
MISSOULA	88	52	97	43	70	-2	.1	-1.1	1.1	4.0	14.1	8.1	96	64	15	3	0	0	1	0	0	
NE GRAND ISLAND	81	61	89	56	71	-6	2.6	-2.0	2.5	12.6	18.0	22.7	140	97	62	0	0	0	4	1	1	
LINCOLN	83	62	93	55	73	-5	.8	-1.0	1.6	9.8	12.4	17.8	98	97	61	2	0	0	3	1	1	
NORFOLK	79	60	91	53	69	-4	2.1	-1.5	1.1	1.5	11.1	10.5	128	105	96	58	1	0	4	2	2	
NORTH PLATTE	84	58	93	55	71	-6	2.0	-1.5	1.0	8.3	11.6	17.0	117	98	51	2	0	0	3	2	1	
OMAHA	79	63	91	56	71	-4	1.3	-1.4	1.8	12.4	14.2	23.7	121	89	65	1	0	0	4	1	1	
SCOTTSDUFF	88	56	98	51	72	-1	.1	-1.1	1.1	6.1	11.9	11.3	102	93	33	2	0	0	1	0	0	
VALENTINE	83	58	97	54	70	-4	3.0	-2.4	1.3	10.6	17.6	14.4	116	92	46	1	0	0	2	2	2	
NV ELY	88	52	95	47	70	-3	1.6	-1.4	1.0	3.8	24.3	7.0	119	64	17	3	0	0	3	2	2	
LAS VEGAS	101	79	109	74	90	0	T	-1.1	T	1.1	18	6.7	284	46	20	7	0	0	0	0	0	
RENO	92	54	96	51	73	4	.0	-1.1	0	1.3	20.2	2.7	57	44	11	6	0	0	0	0	0	
WINNEMUCCA	96	51	101	48	74	-3	.0	-1.1	0	.5	4.3	1.9	40	30	13	7	0	0	0	0	0	
NH CONCORD	82	52	84	47	67	-2	.4	-1.4	1.4	7.1	10.6	17.3	83	96	40	0	0	0	1	0	0	
NJ ATLANTIC CITY	82	54	84	50	68	-7	0	-1.1	0	7.0	8.6	16.9	67	97	45	0	0	0	0	0	0	
NM ALBUQUERQUE	92	63	95	60	77	-1	.9	-1.5	1.7	3.5	15.9	7.0	161	74	22	6	0	0	2	1	1	
CLOVIS	93	65	97	63	79	1	.1	-1.5	1.1	4.5	7.2	13.8	130	76	23	6	0	0	2	0	0	
ROSWELL	97	66	100	63	82	2	.8	-1.3	1.8	4.1	12.5	11.2	200	77	21	7	0	0	1	1	1	
NY ALBANY	81	54	83	49	67	-4	.5	-1.3	1.3	6.7	9.5	17.9	85	95	45	0	0	0	3	0	0	
BINGHAMTON	74	54	78	50	64	-5	.2	-1.5	1.2	7.9	10.0	24.7	112	93	46	0	0	0	1	0	0	
BUFFALO	76	59	82	54	67	-3	.8	-1.2	1.3	11.9	17.7	27.4	130	90	49	0	0	0	3	0	0	
NEW YORK	83	65	87	64	74	-2	.2	-1.8	1.2	7.8	9.8	19.1	75	77	41	0	0	0	1	0	0	
ROCHESTER	77	58	81	53	67	-4	1.2	-1.5	1.6	9.2	15.1	22.4	121	93	50	0	0	0	3	1	1	
SYRACUSE	78	58	83	52	68	-3	.4	-1.5	1.2	10.2	12.2	27.8	120	89	44	0	0	0	3	0	0	
NC ASHEVILLE	79	63	85	60	71	-3	1.6	-1.6	1.8	9.3	10.7	29.7	108	96	58	0	0	0	3	1	1	
CHARLOTTE	84	69	91	68	77	-2	.7	-1.1	1.6	9.3	11.1	28.0	101	85	54	1	0	0	3	1	1	
GREENSBORO	80	65	87	62	72	-5	T	-1.0	T	8.3	9.0	25.8	97	94	61	0	0	0	0	0	0	
HATTERAS	85	72	87	70	79	0	2.4	-1.0	2.1	8.6	7.7	29.9	95	97	66	0	0	0	6	1	1	
NEW BERN	86	70	91	69	78	-2	3.6	-2.1	1.9	11.8	8.6	29.0	88	98	62	1	0	0	4	2	2	
RALEIGH	82	66	89	61	74	-4	.4	-1.7	1.3	9.0	9.7	22.5	85	98	62	0	0	0	2	0	0	
WILMINGTON	87	70	89	68	79	-2	3.7	-2.2	1.8	13.9	9.3	39.4	118	97	65	0	0	0	6	2	2	
ND BISMARCK	77	51	99	43	64	-7	1.2	-1.2	1.2	6.3	11.6	9.0	83	99	50	2	0	0	1	0	0	
FARGO	79	55	91	45	67	-4	.5	-1.1	1.5	7.8	11.0	13.5	104	93	48	1	0	0	2	1	1	
GRAND FORKS	78	54	93	47	66	-3	.6	-1.1	1.3	5.7	8.8	11.7	99	94	47	1	0	0	2	0	0	
WILLISTON	81	54	99	51	68	-3	.5	-1.2	1.5	3.5	7.3	8.4	89	91	40	2	0	0	1	1	1	
OH AKRON-CANTON	76	57	81	51	67	-5	2.0	-1.2	1.1	14.6	17.9	29.1	126	95	55	0	0	0	3	2	2	
CINCINNATI	79	60	82	55	70	-6	1.5	-1.7	1.7	12.1	13.2	25.8	98	97	58	0	0	0	2	2	2	
CLEVELAND	78	57	86	49	68	-4	.3	-1.4	1.3	12.1	15.8	27.9	127	93	51	0	0	0	3	0	0	
COLUMBUS	79	58	84	53	69	-5	.6	-1.3	1.5	15.3	17.0	27.6	113									

Weather Data for the Week Ending August 8, 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 Jun 1	PCT. NORMAL SINCE Jun 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE	MAXIMUM	AVERAGE MINIMUM	TEMP. °F		PRECIP.	
																	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
DAYTON	80	60	83	54	70	-4	.5	-2	.5	10.6	133	26.2	115	92	49	0	0	1	1	
TOLEDO	79	57	85	50	68	-4	.3	-4	.2	8.1	108	21.2	107	95	49	0	0	3	0	
YOUNGSTOWN	76	55	82	46	66	-5	1.2	1.0	11.9	140	25.3	108	97	54	0	0	3	0		
OK OKLAHOMA CITY	88	70	94	66	79	-4	1.6	1.4	13.0	176	25.0	124	94	58	2	0	2	1		
TULSA	88	72	94	68	80	-4	1.9	1.3	12.5	143	26.1	107	91	58	3	0	3	2		
OR ASTORIA	65	53	69	46	59	-2	.7	.5	.7	1.5	40	25.8	69	94	67	0	0	2	1	
BURNS	88	49	94	46	68	-1	.0	-1	.0	3.4	368	5.7	98	54	14	2	0	0	0	
MEDFORD	91	56	99	52	74	1	.0	-1	.0	3.2	328	7.5	71	75	19	5	0	0	0	
PENDELTON	86	58	93	53	72	-2	T	-1	T	1.7	154	4.6	66	52	20	2	0	0	0	
PORTLAND	77	58	86	53	68	-1	.5	.3	.5	1.3	63	15.6	77	92	46	0	0	2	0	
SALEM	78	51	85	46	65	-2	.1	.0	.1	1.7	104	16.2	74	91	37	0	0	2	0	
PA ALLENTOWN	81	56	83	53	68	-5	1.1	.1	.8	9.8	113	22.1	84	93	45	0	0	2	1	
ERIE	77	60	85	53	69	-1	1.4	.5	.6	9.4	113	21.8	97	86	53	0	0	3	1	
HARRISBURG	80	59	85	54	70	-6	1.1	-.6	.1	5.6	72	17.3	72	91	43	0	0	1	0	
PHILADELPHIA	83	64	84	62	73	-4	.3	-.6	.3	7.2	82	16.6	66	85	43	0	0	2	0	
PITTSBURGH	77	57	82	52	67	-5	1.1	-.4	1.0	10.5	128	22.5	94	93	51	0	0	2	1	
SCRANTON	78	56	82	50	67	-4	.7	-1	.5	6.0	78	17.1	82	92	46	0	0	3	1	
RI PROVIDENCE	81	59	84	54	70	-3	T	-.9	T	8.2	121	22.9	87	91	42	0	0	0	0	
SC CHARLESTON	90	72	93	71	81	0	3.7	2.1	1.4	14.3	91	32.9	97	99	59	4	0	6	3	
COLUMBIA	90	71	96	70	81	0	1.9	.6	1.4	10.4	92	26.2	81	95	54	5	0	3	1	
FLORENCE	89	71	93	69	80	-1	1.6	.5	1.3	8.5	73	21.0	72	95	57	4	0	3	1	
GREENVILLE	84	65	90	63	75	-4	.1	-.8	.1	7.8	79	31.7	96	95	53	1	0	3	0	
SD ABERDEEN	77	55	91	47	66	-7	.7	.2	.3	9.3	153	12.2	96	97	58	1	0	4	0	
HURON	77	58	92	52	68	-7	1.1	.6	.8	11.4	189	16.6	126	97	61	1	0	5	1	
RAPID CITY	84	55	103	51	70	-4	T	-4	T	5.4	95	11.0	89	94	39	2	0	0	0	
SIoux FALLS	78	58	89	52	68	-6	1.9	-1.2	1.1	12.9	181	21.6	137	96	57	0	0	5	2	
TN CHATTANOOGA	83	65	87	62	74	-5	.2	-.6	.1	14.4	164	32.4	96	99	60	0	0	2	0	
KNOXVILLE	83	66	86	62	74	-4	2.0	1.3	2.0	9.7	107	26.2	85	96	59	0	0	1	1	
MEMPHIS	86	71	93	68	79	-3	.9	.0	.6	13.8	161	29.9	89	93	62	2	0	3	1	
NASHVILLE	87	67	94	58	77	-3	.1	-.7	.1	10.3	123	24.2	77	91	50	1	0	1	0	
TX ABILENE	95	71	97	65	83	-2	T	-.5	T	7.5	145	19.3	139	82	34	7	0	0	0	
AMARILLO	95	66	97	63	80	-2	.3	-.4	.2	10.3	148	16.9	133	81	27	7	0	2	0	
AUSTIN	95	73	96	69	84	-2	.7	-.3	.4	6.6	124	34.4	186	97	43	7	0	2	0	
BEAUMONT	91	73	93	71	82	-2	1.1	-.2	.7	17.4	142	45.9	139	100	62	6	0	4	1	
BROWNSVILLE	96	76	97	75	86	1	.0	-.5	.0	1.9	41	17.2	148	94	44	7	0	0	0	
CORPUS CHRISTI	94	75	95	73	84	0	T	-.6	T	2.5	37	27.4	170	97	49	7	0	0	0	
DEL RIO	96	74	98	73	85	-1	.0	-.3	.0	3.3	89	17.0	176	71	35	7	0	0	0	
EL PASO	97	68	100	64	83	1	.1	-.2	.1	1.1	43	7.4	185	75	24	7	0	3	0	
FORT WORTH	95	74	96	68	84	-1	.1	-.2	.1	8.0	161	26.3	136	88	43	7	0	1	0	
GALVESTON	89	79	92	74	84	-1	1.2	-.3	.7	7.2	86	36.2	165	84	60	4	0	3	1	
HOUSTON	93	73	94	71	83	-1	1.3	-.4	.9	8.6	96	39.4	146	99	56	6	0	3	1	
LUBBOCK	96	70	98	67	83	4	T	-.5	T	6.1	109	17.4	155	77	29	7	0	0	0	
MIDLAND	96	65	99	62	81	-1	.0	-.3	.0	4.3	123	17.7	226	90	28	7	0	0	0	
SAN ANGELO	97	71	99	65	84	0	.2	-.1	.2	6.9	204	16.1	163	85	31	7	0	1	0	
SAN ANTONIO	94	75	96	69	85	0	1.5	1.0	1.4	8.5	156	37.8	228	91	42	7	0	2	1	
VICTORIA	99	73	98	72	84	0	T	-.6	T	3.6	47	38.9	192	99	46	7	0	0	0	
WACO	99	73	100	67	86	-1	.1	-.2	.1	5.2	111	27.2	143	92	37	7	0	1	0	
WICHITA FALLS	98	73	101	66	86	0	.8	-.4	.8	10.7	205	19.5	119	83	37	7	0	1	1	
UT CEDAR CITY	88	59	98	57	74	0	.4	-.1	.4	1.2	61	6.0	97	67	26	3	0	1	0	
SALT LAKE CITY	96	70	103	67	83	6	T	-.2	T	.7	38	6.7	67	47	17	7	0	0	0	
VT BURLINGTON	79	57	82	51	68	-1	.9	-.1	.8	7.3	91	17.6	90	96	47	0	0	4	1	
VA NORFOLK	82	68	90	60	75	-4	2.4	1.2	1.6	9.1	91	23.1	84	96	58	1	0	3	2	
RICHMOND	84	64	89	57	74	-4	1.0	-.2	1.0	8.9	88	26.6	100	99	53	0	0	2	1	
ROANOKE	80	60	87	54	70	-6	T	-.9	T	8.6	111	28.4	118	94	51	0	0	1	0	
WA QUILLAYUTE	67	54	70	48	60	1	1.2	-.7	.8	3.4	56	51.6	90	97	69	0	0	3	1	
SEATTLE-TACOMA	73	56	81	51	64	0	.7	-.4	.5	2.7	116	19.6	97	94	49	0	0	2	1	
SPOKANE	83	56	91	50	69	0	T	-.2	T	2.6	142	7.9	81	56	18	2	0	0	0	
YAKIMA	86	51	94	41	68	-2	T	-.1	T	1.7	221	3.8	84	82	25	3	0	1	0	
WV BECKLEY	76	57	79	50	66	-3	.2	-.7	.2	9.2	95	25.3	92	92	56	0	0	1	0	
CHARLESTON	82	58	84	52	70	-5	1.6	-.6	.9	11.2	114	28.3	102	99	54	0	0	4	2	
HUNTINGTON	81	60	85	53	70	-5	.1	-.9	.1	11.2	120	26.7	100	95	54	0	0	2	0	
PARKERSBURG	79	58	83	52	68	-7	.5	-.4	.3	10.9	122	23.9	96	97	55	0	0	2	0	
WI GREEN BAY	77	55	82	48	66	-3	1.0	-.3	.6	6.9	97	15.3	89	98	48	0	0	4	1	
LACROSSE	77	57	90	50	67	-6	.5	-.3	.5	7.2	81	17.3	90	98	48	1	0	3	0	
MADISON	78	54	86	43	66	-5	.9	-.1	.7	8.0	93	16.3	84	92	47	0	0	3	1	
MILWAUKEE	75	59	85	53	67	-4	1.4	-.6	.9	10.1	128	18.4	94	88	50	0	0	3	1	
WAUSAU	74	54	82	50	64	-5	.3	-.6	.2	4.9	55	15.7	81	97	48	0	0	3	0	
WY CASPER	91	61	97	51	76	5	T	-.1	T	2.3	97	6.2	78	64	18	4	0	1	0	
CHEYENNE	81	55	89	50	68	-1	.2	-.2	.2	4.2	99	8.6	88	79	30	0	0	1	0	
LANDER	88	58	93	51	73	2	.1	.0	.1	3.7	169	9.8	105	60	19	3	0	1	0	
SHERIDAN	89	55	95	51	72	1	T	-.2	T	5.9	177	10.5	101	81	27	3	0	0	0	

Based on 1951-80 normals.

July Weather and Crop Summary

Weather

Drought broke dramatically across the Corn Belt during July, and although it remained cooler than normal, temperatures were high enough to help turn the Nation's corn crop condition from 52 percent good to excellent on July 5 to 79 percent good to excellent by August 2. Soybean, grain sorghum, and spring wheat crops also enjoyed ample July showers without excessive heat. Monthly precipitation topped 150 percent of normal in an arc through the Northern and Central States. Pockets of heavy rain also covered parts of Texas and the Southeast. Widespread dryness was confined to the Red River Valley and the South Atlantic States, as well as the dry-season Western States.

Temperature departures were remarkable for a summer month in the North Central States. In fact, temperatures averaged 9°F below normal at several stations in Nebraska and South Dakota, which was the greatest negative departure for July in the contiguous United States since similar values were recorded in southern Texas 16 years ago. And not since 1958 had a July sported a combination of cool weather in the North Central States and wet weather from the east-central Plains to the eastern Great Lakes, along with an acute fire danger (hot and dry) in the Western States.

Early in the month, a strong upper level ridge built across the Southern States, allowing 100°F heat to creep as far north as the west-central Plains and the Middle Atlantic States. A series of cold fronts from central Canada took their toll on the ridge, squashing it by mid-month, but not before Pueblo, CO, hit 104°F on the 6th, and Norfolk, VA, reached 101°F on the 12th and 14th. But the fronts served to keep the North Central States cool, as Sault Sainte Marie, MI, topped 70°F for the first time in 19 days on July 7. Part of the crushed ridge rebounded over the Western States, leaving areas east of the Rockies unprotected from thunderstorm-laden Canadian cold fronts. Hit-or-miss harbinging rains dampened the Corn Belt and the east-central Plains early in the month, but became widespread after the 9th. July rainfall records began to fall by mid-month, and Columbus, OH, set an all-time 24-hour record with more than 5 inches on the 13th. By the time July ended, Kansas City, MO, had endured its wettest July (15.47 inches), topping the record set in 1958 (10.70 inches), and its second wettest month ever, behind September 1914 (16.14 inches). Columbus, Akron, and Mansfield, OH, along with Moline, IL, also set July rainfall records and received more than 10 inches of rain.

After each successive cold front pushed into the Southeast, Canadian-origin air blanketed the Northern and Central States. Crop development, already behind schedule due to cool, dry weather in May and June, remained up to 2 weeks behind schedule in the northern and western Corn Belt by month's end. Temperatures twice failed to top 60°F in Dubuque, IA (on the 23rd and the 30th), and the average maximum temperature was only 74.5°F in Sioux Falls, SD, a record, and more than 10°F below normal. But on the other side of the Continental Divide, hot, dry weather after mid-month invited wildfire development. At the end of July, major fires scorched trees and brush west of Yosemite National Park, CA, in south-central Oregon, and in west-central Idaho.

Fieldwork

Intermittent rains across the eastern half of the Nation interrupted early-season harvest activities, but improved prospects for late-season crops. Predominately dry weather in the West, meanwhile, allowed harvests to progress on schedule.

Winter wheat harvest was well along in the Southeast, Delta, and southern Plains entering July, but progress was behind normal for the 19 major producing States. Rains across the Eastern United States throughout the month frequently interrupted harvest, keeping progress behind schedule. Hail damaged some central and southern Great Plains acreage at mid-month. Winter wheat harvest was 85 percent (%) complete in the 19 major producing States by August 2, 2 percentage points behind last year and 4 points behind the 5-year average. Harvest was in full swing despite rains in Michigan and Ohio, and gaining momentum in the northern Rocky Mountains and Great Plains. Limited acreage remained for harvest in the central Great Plains and middle Mississippi Valley.

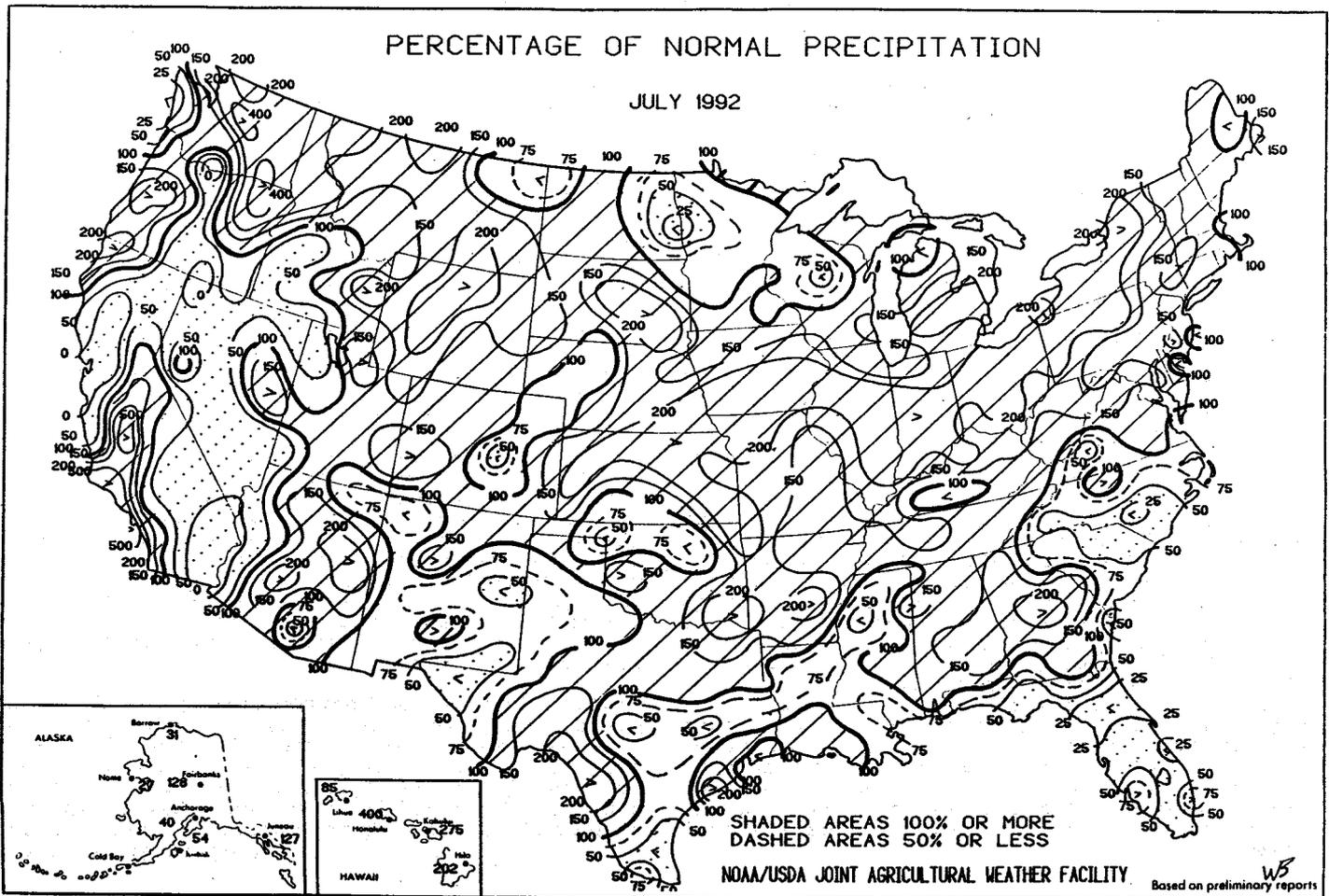
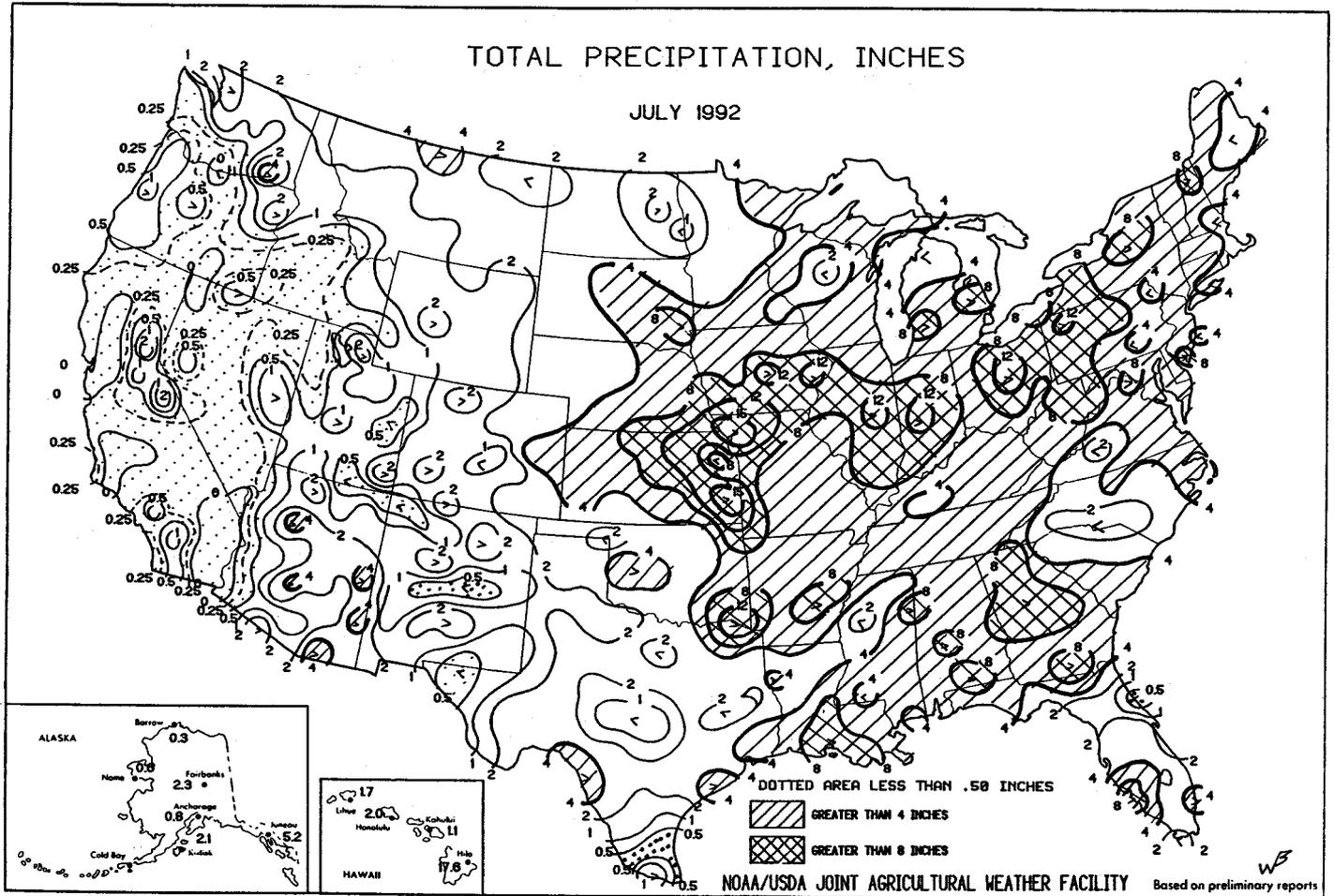
Progress of **spring wheat** heading was behind schedule at the start of July, and below-normal temperatures in the northern Rocky Mountains and Great Plains throughout the month kept crop progress behind. Periodic showers during the month benefited the crop, particularly late-seeded acreage. Harvest began in Idaho and South Dakota late in the month and was commencing in Minnesota by August. Harvest was 2% complete by August 2, 17 percentage points behind last year and 25 points behind the historic average.

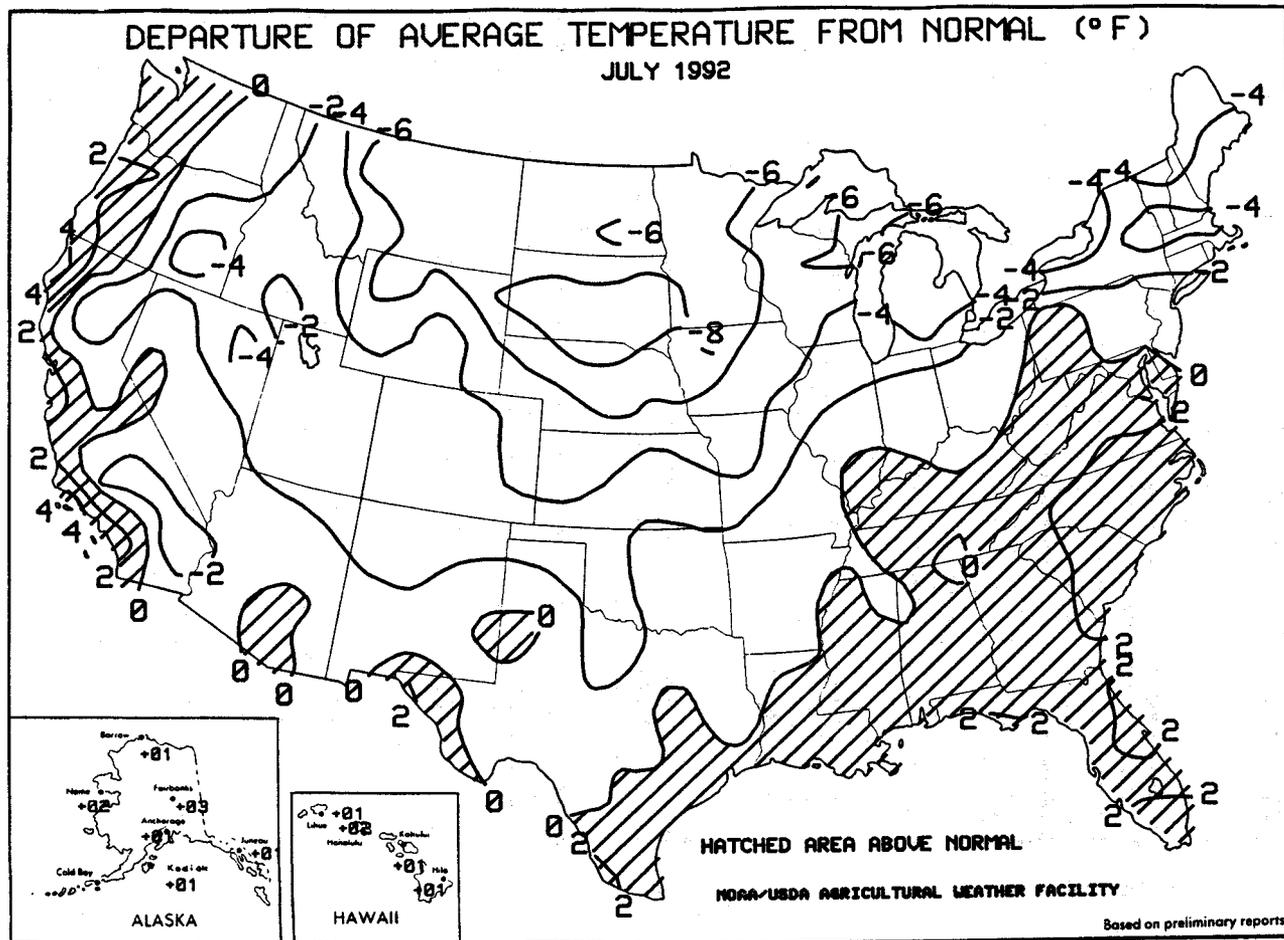
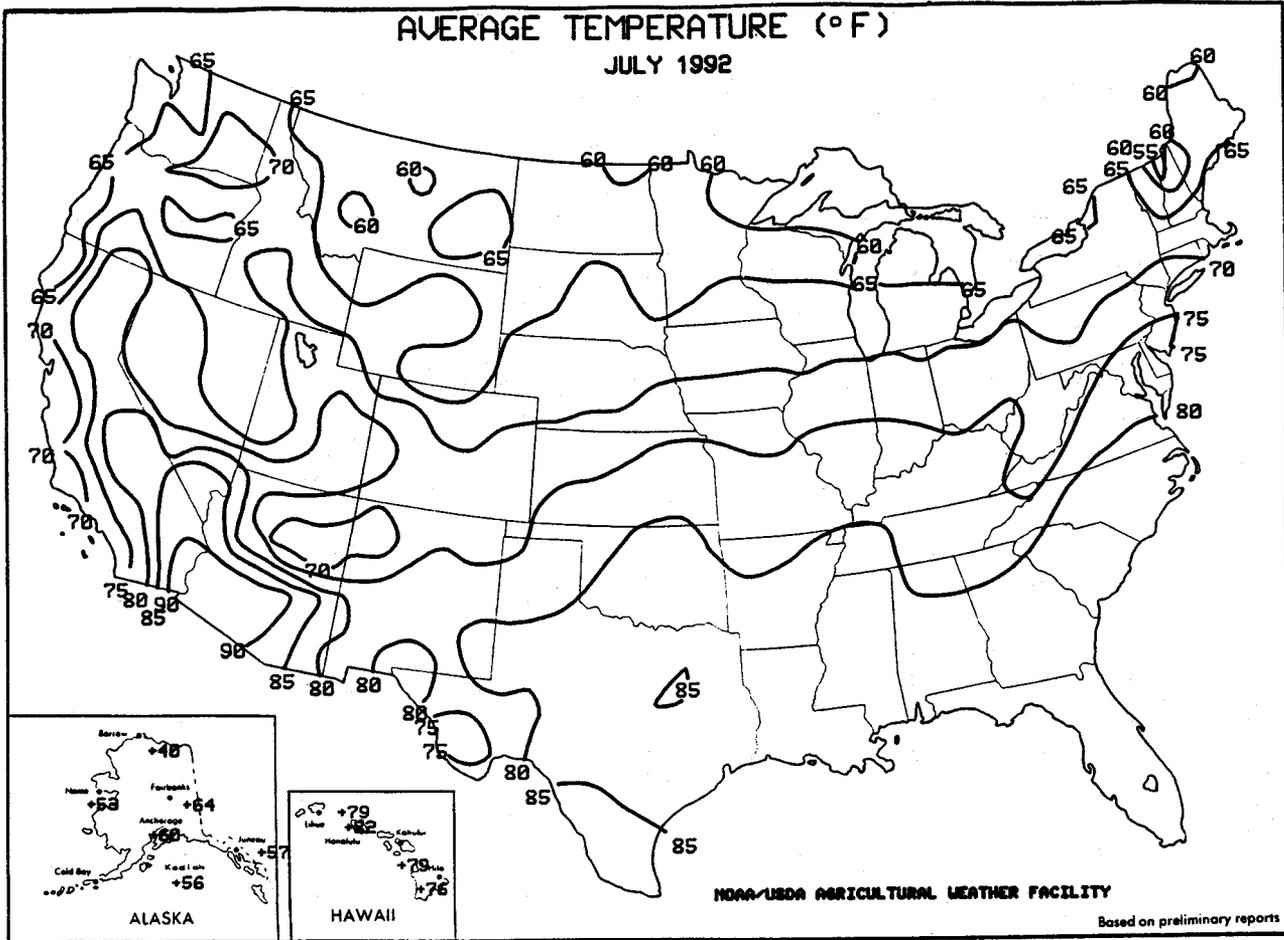
Despite early planting, progress of **corn** silking was behind normal entering July. Silking was prevalent in the Southeast, but was behind schedule in the Corn Belt. July rains relieved critical shortages of soil moisture and improved crop condition. Relatively cool weather during the month delayed corn crop development, with the most dramatic delays occurring in the northern Corn Belt. Silking progressed to 76% of the acreage in the 17 major producing States by August 2, 13 points behind last year and 9 points behind the average. Sixteen percent of the crop was in the dough stage, compared with 40% last year and 30% average. Harvest was active between rains in the extreme South.

Soybean progress was also behind schedule entering July, with blooms appearing later than usual in most States. Second-crop planting was active in the middle Mississippi Valley and Delta during much of the month, as rains kept early-season grain harvests behind schedule. By the end of the month, soybean progress remained delayed in the northern producing States but was ahead of schedule in the Delta. Seventy-six percent of the crop acreage was blooming in the 19 major States, 3 points behind last year and 1 point behind the average. Pods were setting on 32% of the acreage, 18 points behind last year and 14 points behind the average. Crop condition was predominately good.

Replanting of failed **cotton** acreage on the Texas plains was completed early in July, and crop progress was near normal in the 14 major producing States. The crop was developing ahead of schedule in the Delta, but was behind in the southern Atlantic Coast States. Rains improved crop condition during the month, but some acreage

(Continued to p. 23)





TEMPERATURE AND PRECIPITATION SUMMARY

July 1992

STATES AND STATIONS	Temp. °F		Precip.		STATES AND STATIONS	Temp. °F		Precip.		STATES AND STATIONS	Temp. °F		Precip.	
	AVERAGE	DEPARTURE	TOTAL	DEPARTURE		AVERAGE	DEPARTURE	TOTAL	DEPARTURE		AVERAGE	DEPARTURE	TOTAL	DEPARTURE
AL BIRMINGHAM	80	0	7.4	2.0	LA ALEXANDRIA	83	1	0.7	-3.8	TOLEDO	70	-2	6.5	3.3
AL HUNTSVILLE	79	0	6.1	1.1	LA BATON ROUGE	84	2	6.5	-0.6	TOLEDO YOUNGSTOWN	70	0	9.7	5.7
AL MOBILE	82	0	7.8	0.0	LA LAKE CHARLES	83	1	6.1	0.8	OK OKLAHOMA CITY	81	-1	4.0	1.0
AL MONTGOMERY	81	0	7.8	3.0	LA NEW ORLEANS	83	1	5.8	-1.0	OK TULSA	82	-1	2.1	-1.4
AK ANCHORAGE	60	1	0.8	-1.2	LA SHREVEPORT	83	0	3.4	-0.2	OR ASTORIA	61	1	0.2	-0.8
AK BARROW	40	1	0.3	-0.6	ME CARIBOU	60	-5	4.5	0.5	OR BURNS	65	-5	0.3	0.0
AK FAIRBANKS	64	3	2.3	0.6	ME PORTLAND	66	-2	4.1	1.2	OR MEDFORD	74	2	0.6	0.3
AK JUNEAU	57	1	5.2	1.2	MD BALTIMORE	77	0	5.1	1.2	OR PENDLETON	72	-2	0.7	0.4
AK KODIAK	56	1	2.1	-1.5	MD SALISBURY	77	1	4.6	0.2	OR PORTLAND	70	3	0.7	0.2
AK NOME	52	2	0.6	-1.6	MA BOSTON	69	-5	2.7	0.0	OR SALEM	69	3	0.5	0.2
AZ FLAGSTAFF	65	-1	2.7	0.2	MA CHATHAM	65	-2	2.8	-0.1	PA ALLENTOWN	72	-1	5.4	1.3
AZ PHOENIX	93	1	3.0	2.2	MI ALPENA	61	-5	3.4	0.3	PA ERIE	69	0	6.1	2.7
AZ PRESCOTT	74	-1	1.9	-0.9	MI DETROIT	69	-4	5.9	2.8	PA HARRISBURG	75	-1	3.5	-0.2
AZ TUCSON	87	1	0.9	-1.5	MI FLINT	67	-4	9.4	6.6	PA PHILADELPHIA	77	0	5.0	1.2
AZ WINSLOW	72	-7	3.5	2.1	MI GRAND RAPIDS	67	-5	8.8	5.9	PA PITTSBURGH	72	0	8.7	4.9
AR YUMA	93	0	T	-0.1	MI HOUGHTON LAKE	63	-4	2.9	0.0	PA SCRANTON	71	-1	3.8	0.5
AR FORT SMITH	81	-1	4.5	1.4	MI LANSING	66	-4	6.4	3.9	PA WILLIAMSPORT	71	-1	9.7	5.7
CA LITTLE ROCK	81	-1	5.4	1.8	MI MARQUETTE	58	-6	4.9	1.7	RI PROVIDENCE	70	-2	3.6	0.6
CA BAKERSFIELD	81	-3	T	0.0	MI MUSKEGON	66	-4	2.7	0.3	SC CHARLESTON	84	3	4.4	-3.0
CA BISHOP	75	-2	0.1	-0.1	MI SAULT ST. MARIE	57	-6	4.1	1.1	SC COLUMBIA	84	3	2.2	-3.2
CA EUREKA	60	5	0.2	0.2	MN ALEXANDRIA	63	-7	2.9	-0.1	SC FLORENCE	84	3	2.8	-2.9
CA FRESNO	81	0	0.2	0.2	MN DULUTH	59	-6	3.6	-0.3	SC GREENVILLE	80	1	2.7	-1.8
CA LOS ANGELES	71	2	0.3	0.3	MN INT'L FALLS	59	-7	4.0	0.2	SD ABERDEEN	64	-8	3.0	0.6
CA REDDING	80	-3	T	-0.2	MN MINNEAPOLIS	66	-7	5.2	1.7	SD HURON	65	-9	4.9	2.6
CA SACRAMENTO	75	0	0.0	-0.1	MN ROCHESTER	64	-7	3.5	-0.3	SD RAPID CITY	64	-8	3.2	1.2
CA SAN DIEGO	72	1	T	0.0	MN ST. CLOUD	63	-7	3.0	-0.4	SD SIOUX FALLS	65	-8	8.4	5.7
CA SAN FRANCISCO	66	4	0.0	0.0	MS GREENWOOD	83	1	1.8	-2.7	TN BRISTOL	75	0	5.1	0.9
CA STOCKTON	77	-1	0.0	-0.1	MS JACKSON	82	0	4.5	-0.1	TN CHATTANOOGA	78	-1	5.3	0.8
CO ALAMOSA	62	-3	1.2	0.0	MS MERIDIAN	82	1	5.6	0.3	TN KNOXVILLE	78	0	4.6	0.3
CO CO. SPRINGS	68	0	0.8	-2.1	MO TUPELO	81	-0	3.0	-1.6	TN MEMPHIS	82	0	5.4	1.4
CO DENVER	71	-3	2.2	0.3	MO CAPE GIRARDEAU	--	--	3.8	0.1	TN NASHVILLE	80	1	5.9	2.1
CO GRAND JUNCTION	75	-4	1.0	0.6	MO COLUMBIA	75	-3	5.4	2.3	TX ABILENE	81	-3	2.7	0.6
CO FURBIO	73	-4	1.4	-0.4	MO KANSAS CITY	74	-6	15.5	11.4	TX AMARILLO	76	-2	2.4	-0.3
CT BRIDGEPORT	71	-2	3.8	0.3	MO SAINT LOUIS	79	0	4.3	0.7	TX AUSTIN	84	-1	1.0	-0.9
CT HARTFORD	70	-4	4.6	1.6	MO SPRINGFIELD	76	-2	6.8	3.2	TX BEAUMONT	83	0	5.4	-0.5
DC WASHINGTON	80	1	5.3	1.5	MT BILLINGS	66	-7	1.7	0.8	TX BROWNSVILLE	85	1	0.4	-1.1
FL APALACHICOLA	84	2	2.3	-4.8	MT GLASGOW	64	-7	1.4	-0.4	TX CORPUS CHRISTI	84	-1	0.9	-1.5
FL DAYTONA BEACH	83	2	0.2	-5.4	MT GREAT FALLS	62	-8	1.8	0.8	TX DEL RIO	85	-2	4.3	2.6
FL FT. MYERS	85	2	0.4	-0.2	MT HAVRE	63	-8	4.3	3.0	TX EL PASO	85	2	0.6	-0.9
FL JACKSONVILLE	84	2	3.3	-3.1	MT HELENA	64	-3	1.1	0.0	TX FORT WORTH	84	-1	2.5	0.3
FL KEY WEST	85	1	1.1	-2.5	MT KALISPELL	62	-3	2.4	1.4	TX GALVESTON	84	2	3.4	-0.4
FL MIAMI	85	2	4.2	-1.8	MT MILES CITY	67	-8	2.9	1.4	TX HOUSTON	84	0	3.8	0.3
FL ORLANDO	85	2	2.6	-5.4	MT MISSOULA	64	-3	1.8	0.9	TX LAREDO	89	1	1.4	0.3
FL TALLAHASSEE	83	1	3.2	-5.5	NE GRAND ISLAND	70	-7	4.7	2.0	TX LUBBOCK	81	1	1.7	-0.6
FL TAMPA	84	1	2.8	-4.5	NE LINCOLN	73	-5	6.6	3.4	TX MIDLAND	80	-2	1.6	-0.1
FL WEST PALM BEACH	83	1	2.9	-3.1	NE NORFOLK	69	-7	4.4	1.2	TX SAN ANGELO	83	-1	2.0	0.8
GA ATHENS	81	2	4.2	-1.0	NE NORTH PLATTE	69	-6	3.8	0.8	TX SAN ANTONIO	85	0	1.3	-0.6
GA ATLANTA	80	2	9.0	4.3	NE OMAHA	70	-7	9.7	6.0	TX VICTORIA	85	1	2.3	-0.3
GA AUGUSTA	82	1	7.0	2.7	NE SCOTTSBLUFF	69	-5	3.0	1.0	TX WACO	86	0	2.4	0.6
GA MACON	82	1	9.9	5.4	NE VALENTINE	66	-9	2.2	-0.2	TX WICHITA FALLS	83	-3	1.8	-0.2
GA SAVANNAH	84	3	2.0	-5.4	NV ELKO	65	-5	0.3	0.0	UT BLANDING	--	--	2.2	1.2
HI HILO	76	1	17.6	8.9	NV ELY	65	-2	1.4	0.7	UT CEDAR CITY	72	-2	0.5	-0.6
HI HONOLULU	81	2	2.0	1.5	NV LAS VEGAS	89	-2	T	-0.4	UT SALT LAKE CITY	75	-2	0.3	-0.4
HI KAHULUI	79	1	1.1	0.7	NV RENO	71	1	0.2	-0.1	VT BURLINGTON	66	-3	4.6	1.2
HI LIHUE	79	1	1.7	-0.3	NH WINNEMUCCA	71	-2	0.1	-0.1	VA LYNCHBURG	78	2	3.3	-0.6
ID BOISE	71	-3	T	-0.2	NH CONCORD	66	-4	3.5	0.6	VA NORFOLK	82	3	4.5	-0.6
ID LEWISTON	72	-2	1.3	0.8	NJ ATLANTIC CITY	74	-1	3.4	-0.6	VA RICHMOND	79	1	5.7	0.6
ID POCATELLO	67	-4	0.7	0.3	NM ALBUQUERQUE	76	-3	2.0	0.7	VA ROANOKE	77	1	1.7	-1.7
IL CAIRO	--	--	7.7	3.7	NM CLOVIS	76	-1	1.0	-1.8	WA COLVILLE	64	-4	2.4	1.6
IL CHICAGO	69	-4	3.8	0.5	NY ROSWELL	81	0	1.1	-0.6	WA QUILLYUTE	61	2	0.4	-2.2
IL MOLINE	71	-4	11.8	6.9	NY ALBANY	68	-4	4.3	1.3	WA SEATTLE-TACOMA	67	2	0.9	0.2
IL PEORIA	72	-3	8.2	4.2	NY BINGHAMTON	66	-3	6.3	2.8	WA SPOKANE	68	-2	1.1	0.6
IL QUINCY	73	-3	5.6	1.2	NY BUFFALO	67	-4	8.9	6.0	WA WALLA WALLA	74	-2	4.7	4.3
IL ROCKFORD	69	-4	5.1	0.6	NY NEW YORK	75	-1	4.4	0.7	WA YAKIMA	69	-1	0.4	0.3
IL SPRINGFIELD	74	-2	6.9	3.3	NY ROCHESTER	67	-5	6.0	3.6	WV BECKLEY	72	3	5.3	0.6
IN EVANSVILLE	79	1	8.4	4.4	NY SYRACUSE	67	-4	8.0	4.3	WV CHARLESTON	76	1	6.4	1.1
IN FORT WAYNE	71	-2	5.4	2.0	NC ASHEVILLE	75	1	1.1	-2.7	WV ELKINS	70	1	8.3	3.6
IN INDIANAPOLIS	74	-2	11.8	7.5	NC CHARLOTTE	82	4	1.8	-2.1	WV HUNTINGTON	76	0	7.9	3.2
IN SOUTH BEND	70	-3	5.2	1.6	NC GREENSBORO	80	2	5.4	1.2	WV PARKERSBURG	74	0	7.4	3.3
IA DES MOINES	71	-5	7.8	4.6	NC HATTERAS	80	2	5.3	-0.1	WI GREEN BAY	65	-5	4.2	1.0
IA DUBUQUE	67	-5	7.5	3.2	NC NEW BERN	83	4	4.1	-2.7	WI LACROSSE	68	-5	4.0	0.3
IA SIOUX CITY	69	-7	4.8	1.4	NC RALEIGH	80	3	3.4	-0.9	WI MADISON	67	-4	5.5	1.8
IA WATERLOO	68	-5	5.9	1.2	NC WILMINGTON	83	3	3.2	-4.3	WI MILWAUKEE	68	-3	5.6	2.1
KS CONCORDIA	74	-5	11.4	8.1	ND BISMARCK	64	-7	2.5	0.4	WI WAUSAU	64	-6	1.8	-2.2
KS DODGE CITY	76	-5	2.7	-0.4	ND FARGO	64	-6	0.8	-2.5	WI CASPER	67	-4	1.5	0.5
KS GOODLAND	71	-4	4.0	1.6	ND GRAND FORKS	63	-6	1.2	-1.7	WI CHEYENNE	65	-4	1.9	0.0
KS TOPEKA	76	-3	6.4	2.3	ND WILLISTON	64	-6	1.0	-0.8	WI LANDER	66	-5	2.2	1.5
KS WICHITA	79	-2	4.8	1.1	OH AKRON-CANTON	71	-1	10.9	6.9	WI SHERIDAN	64	-6	2.4	1.5
KY BOWLING GREEN	79	0	3.1	-1.3	OH CINCINNATI	74	-2	7.0	2.7	PR SAN JUAN	82	1	4.4	-0.5
KY JACKSON	76	3	6.7	1.8	OH CLEVELAND	71	-2	9.1	5.7					
KY LEXINGTON	76	0	10.3	5.3	OH COLUMBUS	74	-1	12.4	8.4					
KY LOUISVILLE	78	1	6.5	2.4	OH DAYTON	74	-1	6.8	3.5					
KY PADUCAH	80	1	6.9	3.2	OH MANSFIELD	71	-2	13.2	9.5					

Based on 1951-80 normals.

July Weather in Historical Perspective

Nationally, July 1992 ranked among the coolest, wettest Julys on record (table 1). Temperatures averaged more than 2°F below normal in the contiguous States, becoming the coldest July since 1950, and third coldest since 1895 (fig. 1). National precipitation was about 125 percent of normal, a level previously attained only four times (1958, 1950, 1915, and 1905) during the past 98 years (fig. 2). Although this July's weather pattern was certainly unusual, it was not without precedent, having been most recently observed in 1958.

All regions but the Southeast recorded temperatures within the coldest third of the July rankings. All four States in the East North Central region (IA, MI, MN, and WI), along

with Maine, Massachusetts, Nebraska, and New York, registered their coldest July on record (fig. 3). A near-record July chill was noted in the Northeast and West North Central regions (fig. 4).

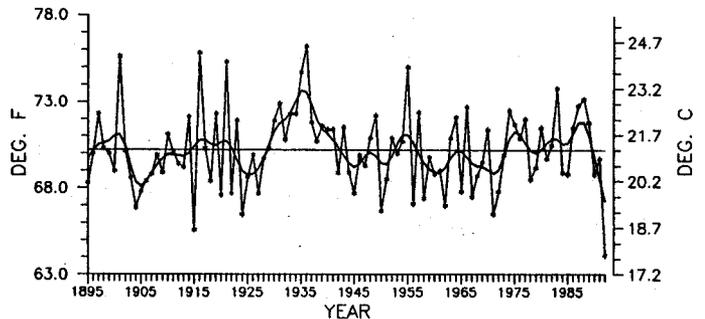
Near-record rainfall accompanied the cool weather in five regions (table 1), encompassing nearly all of the Nation's northern half. In the Central region, which stretches from Missouri to Ohio and southward to Tennessee, precipitation was nearly twice the normal, falling short of only the record wetness of July 1958 (fig. 5). The Southeast region was the lone region to boast warmer- and drier-than-normal conditions in July, and even there considerable cooling occurred after mid-month.

TABLE 1. TEMPERATURE AND PRECIPITATION RANKINGS FOR JULY 1992, BASED ON THE PERIOD 1895-1992. 1 = DRIEST/COLDEST, 98 = WETTEST/HOTTEST.

REGION	PRECIPITATION	TEMPERATURE
NORTHEAST	93	2
EAST NORTH CENTRAL	93	1
CENTRAL	97	20
SOUTHEAST	17	85
WEST NORTH CENTRAL	88	2
SOUTH	70	27
SOUTHWEST	36	8
NORTHWEST	88	18
WEST	50	31
NATIONAL	94	3

Figure 3

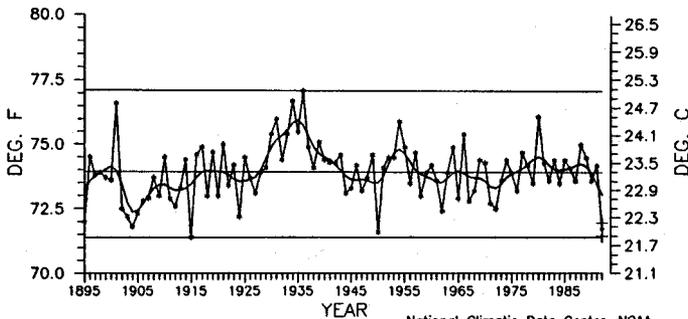
EAST NORTH CENTRAL REGION TEMPERATURE JULY, 1895-1992



National Climatic Data Center, NOAA

Figure 1

U.S. NATIONAL TEMPERATURE JULY, 1895-1992

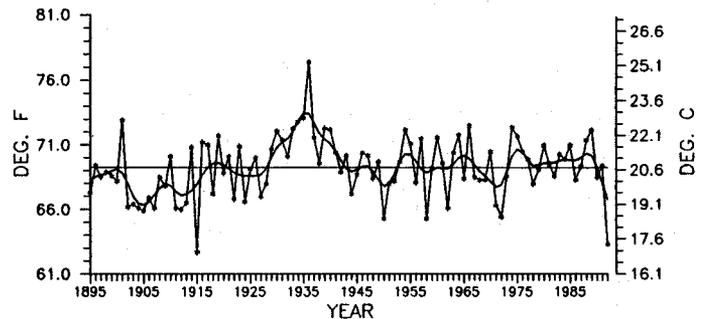


National Climatic Data Center, NOAA

STRAIGHT HORIZONTAL LINES ARE:
 MAXIMUM VALUE (TOP),
 LONG-TERM AVERAGE (MIDDLE),
 MINIMUM VALUE (BOTTOM).
 CONFIDENCE INTERVAL FOR CURRENT YEAR IS INDICATED BY '+'

Figure 4

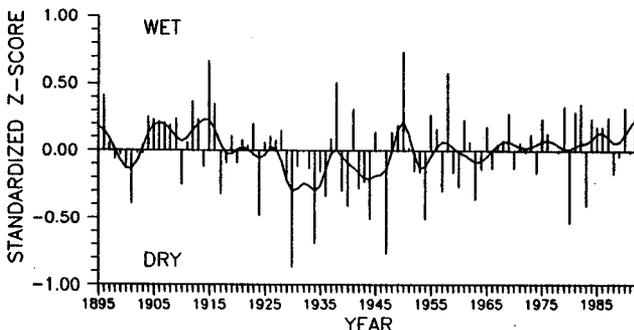
WEST NORTH CENTRAL REGION TEMPERATURE JULY, 1895-1992



National Climatic Data Center, NOAA

Figure 2

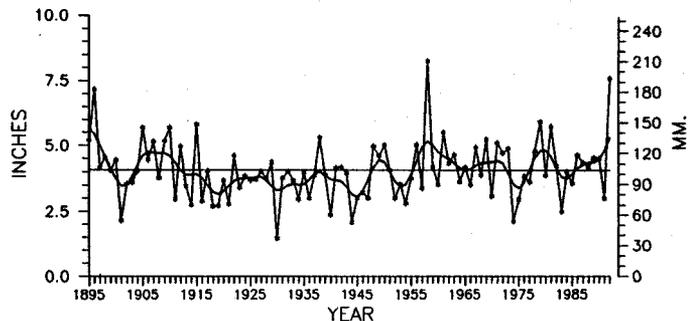
U.S. NATIONAL WEIGHTED MEAN PRECIPITATION INDEX JULY, 1895-1992



National Climatic Data Center, NOAA

Figure 5

CENTRAL REGION PRECIPITATION JULY, 1895-1992



National Climatic Data Center, NOAA

National Agricultural Summary

August 3 - 9, 1992

HIGHLIGHTS: Row crop progress remained behind normal because of continued cool temperatures in the Central and Eastern States. Rains continued to benefit crop prospects from the High Plains eastward.

SMALL GRAINS: Winter wheat harvest reached 90 percent (%) complete in the 19 major producing States, 1 percentage point ahead of last year but 3 points behind the 5-year average. Harvest was in full swing in the northern Rocky Mountains, Great Plains, and Pacific Northwest, while approaching completion in the middle and upper Mississippi Valley and Great Lakes. Temperatures continued to average well below normal in the northern Rocky Mountains and Great Plains, keeping spring wheat behind schedule. Spring wheat harvest was just 5% complete, 34 points behind last year and 43 points behind the historic average. Spring wheat condition continued to rate mostly good in all five major producing States. Barley, oats, and rye harvests were active in the Central and Northern States, with oats harvest approaching completion in the middle Mississippi Valley.

CORN: Continued below-normal temperatures across the Central and Eastern States kept corn progress behind schedule. Eighty-nine percent of the corn was in the silking stage or beyond in the 17 major producing States, 7 points behind last year and 5 points behind the average. Only thirty percent of the crop was in the dough stage, compared with 57% last year and 47% average. Harvest remained active between rains in the South. Crop condition continued to rate mostly good.

SOYBEANS: Soybean progress continued to be hampered by below-normal temperatures in the northern producing States, but remained ahead of schedule in the Delta and Tennessee Valley. Blooming was 88% complete in the 19 major States, 1 point ahead of last year and 2 points ahead of the average. Pod-setting advanced to 56% of the acreage, 10 points behind last year and 7 points behind the average. Crop condition remained predominately good, with rainfall benefiting crops in all producing States.

COTTON: Cotton progress continued to lag in the southern Plains and Southeast. Bolls were setting on 71% of the acreage in the 14 major producing States, 12 points behind last year and 14 points behind the average. Bolls were opening on 6% of the acreage, compared with 9% last year and 7% average. Fields were being defoliated in the Rio Grande Valley, where harvest was underway. Crop condition was mostly fair in the Carolinas, New Mexico, and Texas, and mostly good in the other major States. Boll weevil activity remained high in southeast and east-central Arkansas.

GRAIN SORGHUM: Grain sorghum continued to develop ahead of schedule in the Delta, but remained behind in the Great Plains and middle Mississippi Valley. Forty-nine percent of the crop had headed in the 12 major producing States, 17 points behind last year and 12 points behind the 5-year average. Grain sorghum was coloring on 26% of the acreage, compared with 28% last year and 27% average. Harvest was virtually complete in Texas' Coastal Bend region, and was beginning in the Southeast.

RICE: Rice progress remained ahead of schedule for the five major producing States, with 71% of the acreage headed, 14 points ahead of both last year and the average. Harvest continued in Louisiana and Texas, and reached 10% complete for the five States, matching last year and 3 points ahead of the historic average.

OTHER FIELD CROPS: Rains in the Central and Eastern States continued to interrupt haying and damage cut hay, while haying continued unabated in the West. Potato digging was active in the West Coast States, Colorado, and central and northern East Coast States. Dry beans were blooming in Colorado and Michigan. Dry pea, lentil, and mint harvests continued in the Pacific Northwest. Safflower and sugar beet harvests were ongoing in California. Bloom was advancing in North Dakota sunflowers. Tobacco harvest continued on the East Coast, and began in Kentucky and Tennessee.

FRUIT AND NUTS: Lemon, Valencia orange, and grapefruit picking was active in Arizona. Peach harvest was nearing completion in the Delta and Southeast. Summer stone fruit harvests continued, and pomegranate and prune harvests began in California. California table grape harvest continued, wine grape harvest increased, and preparations were being made for raisin grape harvest. Tart cherry harvest approached completion in New York's Lake Ontario region. Apple, blackberry, and peach picking continued in Oregon. Bartlett pear picking was well along in Oregon and Washington.

VEGETABLES: Harvest of summer storage onions began in Colorado, and continued in the Pacific Northwest. Chile harvest was gaining momentum in New Mexico. Summer vegetable picking progressed well with mostly dry weather in the West.

PASTURES AND LIVESTOCK: Continued hot, dry weather in the West further hurt range conditions and strained water supplies. Pastures in the Central and Eastern States continued to benefit from timely rains, with good forage availability.

Crop Progress

for the Week Ending August 9, 1992

COTTON (Percent Setting Bolls)

	Current	Last Wk	1991	Avg.
AL	94	90	95	95
AZ	100	99	98	98
AR	99	95	99	98
CA	100	95	95	96
GA	98	94	98	99
LA	100	98	88	92
MS	98	91	93	95
MO	92	89	91	98
NM	80	71	89	87
NC	68	62	89	87
OK	27	18	78	63
SC	87	78	96	87
TN	97	76	90	93
TX	47	39	72	75
14 States	71	64	83	85

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

COTTON (Percent Bolls Opening)

	Current	Last Wk	1991	Avg.
AL	2	NA	2	4
AZ	25	NA	6	23
AR	2	NA	0	1
CA	5	NA	0	2
GA	1	NA	3	6
LA	1	NA	0	3
MS	1	NA	1	2
MO	0	NA	0	2
NM	0	NA	0	0
NC	1	NA	3	2
OK	0	NA	0	1
SC	0	NA	1	0
TN	1	NA	0	2
TX	9	NA	19	12
14 States	6	NA	9	7

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

GRAIN SORGHUM (Percent Headed)

	Current	Last Wk	1991	Avg.
AR	97	94	71	79
CO	7	3	16	21
IL	72	58	86	69
KS	25	15	50	40
LA	100	99	75	86
MS	95	91	81	89
MO	79	69	70	71
NE	33	12	73	68
NM	28	19	60	NA
OK	41	34	51	53
SD	19	9	47	57
TX	76	73	85	81
12 States	49	40	66	NA
Excl. States with NA	49	40	66	61

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

CORN (Percent Silking)

	Current	Last Wk	1991	Avg.
CO	63	41	75	74
GA	100	100	100	100
IL	100	97	100	97
IN	98	90	100	94
IA	96	85	93	97
KS	95	90	100	97
KY	99	91	100	98
MI	65	30	96	90
MN	70	45	93	90
MO	97	92	100	95
NE	99	95	99	98
NC	96	95	100	99
OH	94	70	99	94
PA	60	42	83	69
SD	62	37	90	87
TX	95	91	100	100
WI	62	36	88	86
17 States	89	76	96	94

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

CORN (Percent Dough)

	Current	Last Wk	1991	Avg.
CO	7	2	22	16
GA	99	97	99	99
IL	65	30	84	69
IN	39	15	82	57
IA	14	0	36	35
KS	45	40	80	65
KY	68	35	73	53
MI	0	0	20	15
MN	2	0	18	27
MO	64	50	80	73
NE	25	11	61	44
NC	77	73	91	82
OH	25	15	84	58
PA	3	0	34	19
SD	8	5	38	35
TX	73	69	90	89
WI	6	0	42	28
17 States	30	16	57	47

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

GRAIN SORGHUM (Percent Coloring)

	Current	Last Wk	1991	Avg.
AR	59	40	36	35
CO	0	0	0	0
IL	27	7	17	14
KS	3	0	5	5
LA	78	56	52	50
MS	61	47	50	50
MO	24	9	27	25
NE	0	0	7	5
NM	0	0	11	NA
OK	9	8	16	21
SD	0	0	4	7
TX	64	60	70	64
12 States	26	21	28	NA
Excl. States with NA	26	22	29	27
NA - not available.				

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

SOYBEANS (Percent Blooming)

	Current	Last Wk	1991	Avg.
AL	66	47	57	61
AR	69	47	57	51
GA	72	59	86	84
IL	95	87	100	95
IN	97	91	100	92
IA	95	85	92	97
KS	80	60	90	80
KY	75	64	79	73
LA	90	77	46	67
MI	80	55	90	90
MN	96	82	96	98
MS	81	67	62	63
MO	85	74	75	77
NE	97	90	94	96
NC	49	34	63	49
OH	92	84	100	92
SC	59	38	62	53
SD	76	63	92	91
TN	72	50	52	59
19 States	88	76	87	86

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

SOYBEANS (Percent Setting Pods)

	Current	Last Wk	1991	Avg.
AL	42	22	28	33
AR	43	28	32	24
GA	48	29	57	50
IL	71	47	91	82
IN	60	26	80	60
IA	68	47	70	82
KS	50	20	65	50
KY	31	20	39	30
LA	71	51	18	40
MI	20	5	55	45
MN	55	23	72	81
MS	56	33	32	35
MO	59	36	48	52
NE	53	25	62	61
NC	20	14	35	23
OH	50	28	98	77
SC	25	16	29	21
SD	45	20	76	68
TN	38	17	15	27
19 States	56	32	66	63

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

WINTER WHEAT (Percent Harvested)

	Current	Last Wk	1991	Avg.
AR	100	100	100	100
CA	99	99	99	99
CO	94	93	91	94
GA	100	100	100	100
ID	56	33	20	32
IL	100	93	100	100
IN	98	86	100	100
KS	100	99	100	100
MI	90	70	100	100
MO	98	94	100	100
MT	10	4	27	58
NE	98	91	100	100
NC	100	100	100	100
OH	95	78	100	100
OK	100	100	100	100
OR	83	67	48	60
SD	49	39	100	99
TX	100	100	100	100
WA	80	55	29	55
19 States	90	85	89	93

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

RICE
(Percent Headed)

	Current	Last Wk	1991	Avg.
AR	74	54	49	47
CA	15	5	15	14
LA	86	81	78	78
MS	79	52	46	66
TX	83	75	97	97
5 States	71	56	57	57

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

RICE
(Percent Harvested)

	Current	Last Wk	1991	Avg.
AR	0	0	0	0
CA	0	0	0	0
LA	33	19	27	19
MS	0	0	0	0
TX	23	14	39	25
5 States	10	6	10	7

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

SPRING WHEAT
(Percent Harvested)

	Current	Last Wk	1991	Avg.
ID	35	14	16	19
MN	9	2	46	56
MT	0	0	6	27
ND	1	0	40	44
SD	14	10	70	82
5 States	5	2	39	48

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

Crop Condition
(Percent)

for the Week Ending August 9, 1992

CORN

State	VP	P	F	G	EX
CO	2	8	22	57	11
GA	0	0	14	79	7
IL	0	0	7	72	21
IN	0	1	13	72	14
IA	0	0	8	64	28
KS	5	2	8	42	43
KY	0	0	4	66	30
MI	2	8	25	45	20
MN	2	12	43	40	3
MO	0	0	17	64	19
NE	0	3	27	40	30
NC	0	7	44	46	3
OH	1	4	20	52	23
PA	0	5	12	46	37
SD	2	3	17	57	21
TX	0	3	12	71	14
WI	2	9	35	47	7
17 State	1	3	18	57	21
Prev Week	1	3	17	58	21
Prev Year	5	14	34	38	9

SOYBEANS

State	VP	P	F	G	EX
AL	0	0	1	86	13
AR	0	0	16	62	22
GA	0	0	30	68	2
IL	0	0	10	77	13
IN	0	2	25	65	8
IA	0	1	18	65	16
KS	0	1	18	45	36
KY	0	0	19	77	4
LA	0	0	50	50	0
MI	2	8	25	45	20
MN	2	7	56	32	3
MS	0	0	28	69	3
MO	0	5	30	60	5
NE	0	0	11	61	28
NC	0	5	34	60	1
OH	3	8	32	44	13
SC	0	3	52	45	0
SD	1	2	15	60	22
TN	0	0	3	78	19
19 State	0	2	24	61	13
Prev Week	1	4	22	61	12
Prev Year	3	14	41	37	5

COTTON

State	VP	P	F	G	EX
AL	0	0	2	78	20
AZ	0	0	14	57	29
AR	0	0	11	79	10
CA	0	0	0	70	30
GA	0	0	28	69	3
LA	0	2	37	61	0
MS	0	0	39	60	1
MO	0	0	22	67	11
NM	4	4	50	42	0
NC	0	9	47	42	2
OK	0	24	7	69	0
SC	0	1	83	16	0
TN	0	0	17	75	8
TX	7	16	53	23	1
14 State	3	9	37	45	6
Prev Week	3	8	39	43	7
Prev Year	2	4	38	48	8

GRAIN SORGHUM

State	VP	P	F	G	EX
AR	0	0	7	70	23
CO	0	4	10	83	3
IL	0	0	15	75	10
KS	0	3	19	50	28
LA	0	0	32	68	0
MS	0	0	14	81	5
MO	0	0	21	67	12
NE	0	2	14	60	24
NM	0	0	36	52	12
OK	0	1	2	87	10
SD	0	7	20	63	10
TX	0	2	28	57	13
12 State	0	2	20	59	19
Prev Week	0	2	16	60	22
Prev Year	3	13	39	39	6

SPRING WHEAT

State	VP	P	F	G	EX
ID	3	13	27	50	7
MN	1	1	19	63	16
MT	6	13	25	43	13
ND	0	2	20	66	12
SD	1	5	32	59	3
5 State	1	5	23	60	11
Prev Week	1	4	22	60	13
Prev Year	2	7	25	59	7

RICE

State	VP	P	F	G	EX
AR	0	0	17	83	0
CA	0	0	10	80	10
LA	0	0	58	42	0
MS	0	13	30	57	0
TX	0	0	9	67	24
5 State	0	1	25	70	4
Prev Week	0	0	38	59	3
Prev Year	1	2	34	61	2

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

State Summaries of Weather and Agriculture

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

ALABAMA: Rainfall 0.25 to 1.75 in. north; none to 1.00 in. south. Temperatures 1 to 4° below normal north; 1 to 2° below normal central; 1 to 3° above normal south. Lows upper 50s; upper 70s near coast. Highs low to mid 90s.

Days suitable for fieldwork 4.4. Soil moisture 10% short, 73% adequate, 17% surplus. Corn 89% dented, 88% 1991, 88% avg.; 53% mature, 60% 1991, 64% avg.; 15% harvested, 24% 1991, 29% avg.; 4% fair, 35% good, 61% excellent. Sorghum 2% harvested, 5% 1991, 9% avg.; 91% good, 9% excellent. Peanuts 99% pegging, 98% 1991, 99% avg.; 70% good, 30% excellent. Pasture 6% fair, 65% good, 29% excellent. Livestock 4% fair, 77% good, 19% excellent. Primary activities: Harvesting hay, potatoes, fruits, vegetables, corn silage; cultivating row crops; scouting fields for insects, diseases; applying herbicides to peanuts and cotton, fungicides applied to peanuts; general care of livestock, poultry, catfish.

ALASKA: Warm weather with seasonal showers slowed haymaking throughout Railbelt. Highs 2° below normal to 6° above normal. Lows 4 to 8° above normal. Seasonal precipitation 1.38 in. wetter than normal, Fairbanks to 2.22 in. drier than normal, PMC-Butte, Palmer area.

Days suitable for haymaking 3.0. Topsoil, subsoil moisture supplies 15% short, 85% adequate. Small grains: oats 100% dough/earlier. Barley 60% dough/earlier, 40% turning color. First crop hay harvest 80% complete. Barley 1% poor, 55% fair, 44% good.

ARIZONA: Thunderstorms 2nd, northwest, northeast; 3rd, northwest, south central; 4th, central; 5th to 6th, statewide; 7th to 8th, central. Temperatures normal to 4° below. Extremes 45°; 97° higher elevations, 63°; 108° deserts.

Cotton setting bolls 100%, 98% 1991, 98% avg.; bolls opening 25%, 6% 1991, 23% avg.; 14% fair, 57% good, 29% excellent; weeds light to moderate; insects light to moderate, central, east; moderate, west. Alfalfa mostly good; insects light to moderate, weeds moderate to light statewide; harvest, moderate to active, light rain damage most areas, moderate central. Lemon harvest continued, west. Cantaloupes, watermelons, valencia oranges, grapefruit, mixed vegetables harvested, central. Apples, cabbage harvested, east.

ARKANSAS: Temperatures slightly below normal; scattered showers, thunderstorms statewide first of week. Extremes 58°; 97°. Rainfall 0.18 to 6.35 in.

Days suitable for fieldwork 4. Soil moisture 2% short, 56% adequate, 42% surplus. Main farming activities: Scouting rice, cotton; applying fungicide to rice, applying insecticides to cotton, applying herbicide to soybeans, pasture weed control, hay harvesting, working cattle, harvesting fruits, vegetables. Cloudy, humid days slowed progress on cotton, rice crops. Early season rice varieties being drained in preparation for harvest. Producers continued to spray for rice sheath blight, blast in central, east central. Tobacco bud worm pressure easing in cotton fields in southeast. Boll weevil activity remained high in southeast, east central. Some shedding of fruit reported in northeast. Soybean weed control hampered by continuous rainfall. Some beans have begun to

yellow in east. Some worm problems in central. Corn conditions 2% fair, 58% good, 40% excellent. Harvest should begin by mid month. Peach fair to good. Harvest nearing completion. Watermelon harvest continued, nearing 75% complete. High humidity, heat caused stress to poultry. Livestock good. Pastures mostly good. Armyworms a problem in south central. Grasshopper numbers remained high northwest, west central. Hay harvest continued.

CALIFORNIA: Strong high pressure dominated the State's weather again. Inland valley temperatures warmed well above normal. Thunderstorm activity over the southern deserts brought some precipitation. Elsewhere the State was dry.

Crops continued develop rapidly, warm weather conditions. Grain harvest complete, except northernmost districts, southern dryland areas. Planting second crops nearing completion most areas. Warm temperatures excellent development cotton. Lower boll set maturing. Development one to two weeks ahead of normal. Rice good growth, heading rapidly. Corn silage harvest active. Fields irrigated, fertilized, sprayed. Alfalfa cut, dried, baled, green chopped. Alfalfa seed harvest underway. Blackeye beans maturing rapidly. Sunflower heading. Safflower, sugarbeet harvest continued. Summer stone fruit harvest continued. 85% Freestone peach crop picked. 85% nectarines harvested. Plum crop 75% picked. Pear harvest 70% completed. Table grape harvest continued. Raisin grape growers preparing vineyards; some harvested. Some wine grapes picked. Pomegranate harvest began. Almond harvest increased. Prune harvest commenced. Picking apples, asian pears ongoing. Valencia orange harvest proceeded slowly. Navel oranges treated red scale. Strawberry harvest continued good demand, variable quality central coast. Broccoli, cauliflower light, variable quality central coast. Carrot harvest continued steady Westside, Kern districts. Celery fairly light, good quality Salinas-Watsonville; light, variable quality Santa Maria. Sweet corn harvest continued Statewide good quality. Iceberg lettuce moderate Salinas-Watsonville, light Santa Maria variable quality. Fall lettuce ground preparation nearly complete Westside area. Leaf, Romaine lettuce moderate, variable quality Salinas-Watsonville. Melon harvest moved slower Westside area, other area shipments continued good quality. Summer onion digging active central, southern districts, later fields Modoc county looking good. Summer potato harvest progressed Delta, south districts. Fall potato fields Tulalake-Butte Valley growing well. Sweet potato harvest began Selma district, continued Merced-Atwater area. Fresh market, processing tomato harvest continued Statewide good quality. Other vegetables harvested: beans, cucumbers, garlic for fresh market, processing, peppers, various oriental vegetables. Range, pasture continued to deteriorate, mostly fair to poor, good, very poor pockets. Few rangelands fire hazards. Supplemental feeding some areas. Marginally sufficient water stock ponds. Some irrigation curtailed. Grazing, sheeping-off continued. Cattle, sheep, good condition, moderate market movement.

COLORADO: Showers, thunderstorms over State all week. Precipitation generally light; isolated thunderstorms produced localized heavy rain over

eastern plains. Temperatures mostly 2 to 4° below normal for the period except for the Colorado River Basin which was near normal.

Days suitable for fieldwork 4.9. Soil moisture 3% very short, 16% short, 80% adequate, 1% surplus. Alfalfa 2nd cutting 47%, 47% 1991, 58% avg. Barley harvested 36%, 28% 1991, 48% avg. Oats harvested 50%, 50% 1991, 44% avg. Spring wheat turning color 41%, 42% 1991, 69% avg; harvested 9%. Sorghum headed 7%, 16% 1991, 21% avg. Dry beans flowering 54%, 55% 1991, 67% avg. Winter wheat harvested 94%, 91% 1991, 94% avg. Summer potatoes harvested 11%, 12% 1991, 10% avg. Harvest of summer storage onions just underway with condition mostly good to excellent. Row crop development is behind normal for this time of year due to cooler temperatures. Corn silking 63%, 75% 1991, 74% avg.; dough stage 7%; 2% very poor, 8% poor, 22% fair, 57% good, 11% excellent. Dry beans 7% poor, 28% fair, 59% good, 6% excellent. Livestock mostly good. Pasture, range feed condition good to excellent.

FLORIDA: Temperatures about normal throughout State. Highs; low to mid 90s. Lows; upper 60s to lower 70s. Rainfall; 1.00 to 3.00 in. most areas with some localities receiving 4.00 in. plus.

Soil moisture adequate except surplus west central Peninsula. All crops making generally good progress. Corn for grain harvest gaining momentum. Tobacco harvest near complete. Haying steady. Rain most citrus areas. Trees excellent condition. New crop fruit doing well. Fruit sizes normal. Fruit splitting in few groves that had excessive moisture, abundant new foliage. Caretakers cutting cover crops, spraying, fertilizing young trees. Some tree planting. Soil moisture adequate. Ground preparation active all major vegetable areas. Palmetto-Ruskin tomato transplanting expected to start this week. Planting, transplanting eggplant, peppers, tomatoes continues east coast. State's pastures fair to excellent. Pasture 15% fair, 55% good, 30% excellent. Moisture levels adequate to surplus. State's cattle herds good to excellent.

GEORGIA: Temperatures 1 to 3° below normal northern areas, near normal south. Coolest during first half with week minimums from mid to upper 50s in mountains to upper 60s, low 70s central, south. Hottest mid to upper 80s higher mountains to mid 90s central, south. Showers, thunderstorms scattered about every day, most numerous east, south. Rainfall under 0.25 in. many locations to locally 1.00 to 3.00 in. Heaviest weekly totals 3.48 in. near Stillwell, 3.12 in. Savannah Airport, 3.04 in. near Washington.

Days suitable for fieldwork 5.7. Soil moisture 3% very short, 45% short, 49% adequate, 3% surplus. Corn 95% dent, 96% 1991, 95% avg.; 74% mature, 89% 1991, 81% avg.; 7% harvested for grain, 29% 1991, 23% avg. Cotton insect control active. Sorghum 21% fair, 77% good, 2% excellent. Peanuts 22% fair, 73% good, 5% excellent; 100% pegging, 100% 1991, 100% avg.; 0% dug, 1% 1991; disease, insect control active. Tobacco 48% fair, 52% good; 77% harvested, 85% 1991, 74% avg. Watermelons 96% harvested, 96% 1991, 96% avg. Other vegetables 12% poor, 70% fair, 18% good; season supply down most vegetables. Apples 1% poor, 23% fair, 76% good; 9% harvested, 30% 1991, 24% avg. Peaches 5% very poor, 19% fair, 76% good; 94% harvested, 95% 1991, 98% avg. Pecans 6% very poor, 13% poor, 64% fair, 17% good; insect pressure increasing. Hay, pastures fair to mostly good, reports of armyworms increasing. Cattle, hogs good. Other activities: Included harvesting silage, hay, mowing pastures, spraying, irrigating.

HAWAII: Trade wind showers fell across the State benefiting agriculture during the week. Irrigation water supplies were adequate with continuous rainfall after midweek. Warm weather, variable levels of shower activity allowed crops to make fair to good progress. Temperatures varied high 60s to high 80s with winds at 10 to 25 mph. Rainfall none to 2.50 in.

Days suitable for fieldwork 7.0. Banana, papaya production continued near normal levels. Rainfall benefited Macadamia nut, coffee orchards. Sweet corn harvesting moderate to heavy. Watermelon output hampered by whitefly infestation.

IDAHO: Temperatures 5° below normal to 4° above normal across the State. Light precipitation in northern areas.

Days suitable for fieldwork 7. Soil moisture 18% very short, 45% short, 37% adequate. Winter wheat 2% very poor, 10% poor, 30% fair, 50% good, 8% excellent. Spring barley harvested 37%, 14% 1991, 24% avg. Oat harvested 48%, 22% 1991, 24% avg. Potatoes 98% closing middles, 31% turning, 5% vines dying/killed. Potato good. Second cutting alfalfa 80%, 58% 1991, 66% avg. Dry pea harvest 74%, 25% 1991, 43% avg. Lentil harvest 58%, 14% 1991, 21% avg. Mint 1st cutting 88%, 38% 1991, 57% avg. Peach harvest 78% complete. Irrigation water supplies 17% very poor, 37% poor, 26% fair, 20% good. Activities: 2nd cutting alfalfa, irrigation, harvesting of small grains, mint, dry peas, lentils. Pasture, range 54% of normal. Livestock good.

ILLINOIS: Seasonably cool, dry weather prevailed as high pressure dominated. Temperatures high 50s to the lower 80s, while precipitation was 0.01 to 1.50 in. in most parts of the State.

Days suitable for fieldwork 5.75. Soil moisture 19% short, 69% adequate, 12% surplus. Corn dented 15%, 49% 1991, 28% avg. Soybeans turning yellow 1%, 5% 1991, 2% avg. Alfalfa second cutting 94%, 100% 1991, 98% avg.; third cutting 28%, 44% 1991, 41% avg.; 13% excellent, 68% good, 18% fair, 1% poor. Oats ripe 99%, 100% 1991, 100% avg.; harvested 77%, 100% 1991, 98% avg. Pasture 88% of normal.

INDIANA: Temperatures 2 to 5° below normal. Highs low to mid 80s. Lows upper 50s to mid 60s. Precipitation none to 0.50 north, central, 0.75 to 5.00 south. Flash flooding with 9.00 to 11.00 in. Floyd, Scott, Clack counties during the weekend.

Days suitable for fieldwork 5.2. Topsoil 6% short, 75% adequate, 19% surplus. Subsoil 7% short, 73% adequate, 20% surplus. Oats harvested 86%, 100% 1991, 94% avg. Rye harvested 97%, 100% 1991, 99% avg. Alfalfa cut twice 82%, 100% 1991, 91% avg. Pasture 92%, 94% last week, 36% 1991. Warm, sunny weather is needed to improve maturity of corn, soybeans.

IOWA: Temperatures 3 to 4° below normal. Extremes 44°; 93°. Rainfall trace to 2.29 in.; average 0.89 in.

Days suitable for fieldwork 3.8. Topsoil 59% adequate 41% surplus. Subsoil 76% adequate, 24% surplus. Hay 4% poor, 22% fair, 62% good, 12% excellent. Pasture 2% poor, 20% fair, 52% good, 26% excellent. Corn in milk stage 44%, 68% 1991, 74% avg. Oats harvested 85%, 100% 1991, 99% avg. Winter wheat harvested 87%, 100% 1991, 100% avg. Second cutting alfalfa 83% harvested, 99% 1991, 98% avg. Second cutting clover 54% harvested, 77% 1991, 83% avg. Muddy feedlots, cool, wet weather starting to stress livestock.

KANSAS: Temperatures 2 to 8° below normal over State; avg. 2° below normal northwest, 4° below normal west central, north central, 5° below normal central, 7° below normal south central, 8° below

normal southeast. Remainder of State 6° below normal. Precipitation received all districts. Ranged from 0.74 in. west central to 2.48 in. northwest. Only 3 of 9 districts received less than 1.00 in. of rain.

Days suitable fieldwork 2.5. Surface moisture 4% short, 51% adequate, 45% surplus. Subsurface moisture 3% short, 81% adequate, 16% surplus. Wheat harvest is generally complete, still a few fields farmers hope to harvest. Row crops mostly good to excellent. Row crop progress slightly behind normal because of cool temperatures, lack of sunshine during growing season. Insect, disease problems light. Pasture condition very good. Forage, stockwater adequate over State. Thirty-five percent alfalfa cut third time. On average 70% cut third time by this date. About 5% cut fourth time.

KENTUCKY: High temperatures low to mid 80s, 4° below normal. Low temperatures mid 60s, near normal. Precipitation around 0.30 in. west, 1.00 to 2.00 in. central, east. Local amounts near 6.00 in. Louisville area.

Days suitable fieldwork 5.0. Soil moisture 1% very short, 13% short, 75% adequate, 11% surplus. Soil moisture shortages primarily southwestern counties. Corn good to excellent, 33% denting or beyond. Burley fair to good, some water, storm damage. Burley 11% cut, 16% 1991, 5% avg. Dark tobacco 15% cut. Pasture good to excellent. Hay crops fair to good, weather continues unfavorable for hay harvesting. Apples sizing well, many growers have half a crop.

LOUISIANA: Temperature 1.1° below to 0.3° above normal. Extremes 65°; 99°. Rainfall none to 1.67 in. southwest.

Days suitable for fieldwork 5.2. Soil moisture 5% short, 90% adequate, 5% surplus. Corn 29% fair, 68% good, 3% excellent; 89% mature, 91% 1991, 79% avg.; 14% harvested, 33% 1991, 19% avg. Hay 51% second cutting, 5% 1991, 13% avg. Peaches 99% harvested, 95% 1991, 97% avg. Rice 49% ripe, 43% 1991, 31% avg. Fertilizing, flooding second crop began. Sorghum 37% ripe, 31% 1991, 18% avg.; 4% harvested, 7% 1991, 4% avg. Sugarcane 1% fair, 78% good, 21% excellent; 0% planted, 1% 1991, 1% avg. Sugarcane bores increasing, spraying active where needed. Sweet potatoes 15% fair, 85% good; 13% harvested, 10% 1991, 7% avg. Livestock 15% fair, 77% good, 8% excellent. Pastures 3% poor, 6% fair, 87% good, 4% excellent. Fertilizing, hay baling active. Vegetables 10% poor, 68% fair, 22% good. Scouting for insects, spraying active in cotton. Aerial blight causing problems in soybeans in several areas.

MARYLAND & DELAWARE: MARYLAND: Precipitation 0.56 in. Temperature 71.9°, normal 75.8°. Extremes 43°; 92°.

Days suitable for fieldwork 5.6. Topsoil 5% very short, 28% short, 67% adequate. Subsoil 5% very short, 26% short, 69% adequate. Corn mostly good: Silking 86%, 94% 1991, 89% avg.; dough stage 30%, 62% 1991, 51% avg.; 14% dent, 28% 1991, 21% avg. Soybeans fair mid-State, mostly good elsewhere: 65% blooming, 69% 1991, 60% avg.; 23% setting pods, 38% 1991, 33% avg. Pastures poor mid State, good to mostly excellent elsewhere. Alfalfa third cutting 41%, other hay third cutting 16%. Vegetable harvest active, potato digging active. Light to moderate insects on soybeans, corn, tobacco, alfalfa. Some diseases on vegetables, melons. Need rain to hold corn, soybean conditions.

DELAWARE: Precipitation 0.67 in. Temperature 71.4°, normal 76.3°. Extremes 54°; 86°.

Days suitable for fieldwork 6.3. Topsoil 57% short, 43% adequate. Subsoil 12% very short, 51% short, 37% adequate. Soybeans fair to good; 65%

blooming, 65% 1991, 55% avg.; 12% setting pods, 16% 1991, 15% avg. Corn fair to good, some lost; 95% silked, 99% 1991, 99% avg., 22% dough stage, 56% 1991, 39% avg.; 3% dent, 15% 1991, 14% avg. Sorghum maturing. Potato digging active. Alfalfa third cutting 59%, other hay third cutting 51%, supplies adequate. Peaches picked 31%; apples 4%. Vegetable and melon harvest very active. Pastures good condition. Irrigating. Spider mites light on soybeans.

MICHIGAN: Temperatures 2 to 6° below normal. Extremes 39°; 85°. Precipitation 0.03 to 2.00 in.

Days suitable for fieldwork 6.0. Soil moisture 20% short, 75% adequate, 5% surplus. Hay 60% second cutting, 80% 1991, 70% avg.; 4% very poor, 11% poor, 30% fair, 40% good, 15% excellent. Oats 80% turning, 100% 1991, 100% avg.; 30% Ripe, 90% 1991, 90% avg.; 2% very poor, 8% poor, 30% fair, 45% good, 15% excellent. Dry Beans 70% blooming, 90% 1991, 85% avg.; 3% very poor, 12% poor, 40% fair, 35% good, 10% excellent. Pasture 80% of normal. Major activities: Baling straw, combining wheat, cultivating row crops, harvesting fruit and vegetables.

MINNESOTA: Temperatures 1 to 3° below normal. Extremes 40°; 93°. Precipitation 0.30 to 2.06 in. State, 0.40 in. below normal to 1.19 in. above normal. Greatest weekly total was 4.30 in.

Days suitable for fieldwork 5.1. Topsoil 3% very short, 21% short, 58% adequate, 18% surplus. Spring wheat 82% turning ripe, 98% 1991, 98% avg.; 19% cut\swathed, 63% 1991, 74% avg.; 9% combined, 46% 1991, 56% avg. Oats 97% turning ripe, 99% 1991, 99% avg.; 52% cut\swathed, 94% 1991, 94% avg.; 23% combined, 83% 1991, 82% avg. Barley 92% turning ripe, 99% 1991, 99% avg.; 25% cut\swathed, 97% 1991, 95% avg.; 14% combined, 82% 1991, 82% avg. Corn 96% tasseling, 98% 1991, 98% avg.; 23% in milk, 75% 1991, 76% avg. Soybeans 96% blooming, 96% 1991, 98% avg.; 50% setting pods, 72% 1991, 81% avg. Winter wheat 40% harvested, 93% 1991, 93% avg. Rye 53% harvested, 87% 1991, 90% avg. Spring wheat 1% very poor, 1% poor, 19% fair, 63% good, 16% excellent. Oat 1% very poor, 1% poor, 25% fair, 61% good, 12% excellent. Barley 1% very poor, 1% poor, 20% fair, 62% good, 16% excellent. Soybean 2% very poor, 7% poor, 56% fair, 32% good, 3% excellent. Corn 2% very poor, 12% poor, 43% fair, 40% good, 3% excellent.

MISSISSIPPI: Temperatures 79°, 2.0° below normal. Extremes 57°; 96°. Most of the State received near normal rainfall; average 0.95 in., 0.06 above normal. Soil temperatures 84°.

Days suitable for fieldwork 3.4, 5.8 1991, 5.5 avg. Soil moisture 6% short, 46% adequate, 42% surplus, 6% excessive. Corn dough 96%, 88% 1991, 88% avg.; dented 81%, 72% 1991, 70% avg.; mature 45%, 44% 1991, 29%, avg.; harvested 7%, 5% 1991, 4% avg.; silage harvested 42%, 69% 1991, 47% avg.; 18% fair, 67% good, 15% excellent. Cotton 98% setting bolls, 93% 1991, 95% avg.; open bolls 1%, 1% 1991, 2% avg.; 39% fair, 60% good, 1% excellent. Rice 79% heading, 46% 1991, 66% avg.; mature 10%, 4% 1991, 4% avg.; harvested NA, NA 1991, NA avg.; 13% poor, 30% fair, 57% good. Sorghum 95% heading, 81% 1991, 89% avg.; 61% coloring, 50% 1991, 50% avg.; 18% mature, 40% 1991, 17% avg.; harvested NA, 3% 1991, 1% avg.; silage harvested 35%, 23% 1991, 29% avg.; 14% fair, 81% good, 5% excellent.; Soybeans 81% blooming, 62% 1991, 63% avg.; 56% podding, 32% 1991, 35% avg.; coloring 5%, 3% 1991, 3% avg.; 28% fair, 69% good, 3% excellent. Water-melons 94% harvested, 85% 1991, 82% avg. Hay harvested 78%, 75% 1991, 68% avg. Peaches 95% harvested, 97% 1991, 96% avg.; 23% very poor, 17% poor, 28% fair, 22% good, 10% excellent. Livestock 10% fair, 77% good, 13% excellent. Pasture 92% of normal. Activities: Insect control, harvesting.

MISSOURI: Temperatures 3 to 8° below normal. Rainfall 0.77 in., varying from less than 0.25 in. east central, southeastern districts to over 1.00 in. north central, west central, central.

Days suitable for fieldwork 4.1. Topsoil 8% short, 65% adequate, 27% surplus, lowest rating east central 64% short, highest rating, northwest, north central 50% or more surplus. Moderate temperatures, good moisture helping crop development. Corn reaching dough stage ranges 50% northern third to 99% southeast. Soybeans setting pods at least 50% all districts except southwest, south central where progress just over 30%. Sorghum heading varies from about 50% northern third, southwest to 98% southeast. Sorghum coloring ranges less than 10% north central, northeast, west central, east central to 44% southeast. Wheat harvesting ranges from 3% to 7% left in northern districts, complete elsewhere. Oat harvest 93%, 100% 1991, 100% avg. Alfalfa second cutting 90%, 99% 1991, 99% avg. Third cutting 26%, 55% 1991, 60% avg. Other hay cut 91%, 98% 1991, 96% avg. Pasture 1% very poor, 4% poor, 22% fair, 55% good, 18% excellent.

MONTANA: Temperatures near to 2° below normal north, east while near to 4° above normal west, south. Scattered, light precipitation statewide with hail, heavy rain north central, south central.

Days suitable for fieldwork 5.9. Topsoil 31% short, 68% adequate, 1% surplus. Subsoil moisture 38% short, 62% adequate. Barley 73% turning, 93% 1991, 93% avg.; 6% very poor, 14% poor, 29% fair, 43% good, 8% excellent. Oats 69% turning, 90% 1991, 90% avg.; 4% very poor, 12% poor, 26% fair, 48% good, 10% excellent. Sugarbeets 1% very poor, 2% poor, 41% fair, 34% good, 22% excellent. Pasture, range feed condition 81%, a decrease of 4 points from last week. Alfalfa hay 96% harvested, 100% 1991, 100% avg.

NEBRASKA: Temperatures 1 to 4° below normal. Rainfall 0.10 in. in the Panhandle to 3.50 in. in parts of the southwest, central. Row crops 1 to 2 weeks behind normal development.

Days suitable for fieldwork 3.2. Topsoil 4% short, 48% adequate, 48% surplus. Subsoil 84% adequate, 16% surplus. Wheat harvested 98%, 100% 1991, 100% avg. Corn 3% poor, 27% fair, 40% good, 30% excellent; 99% silked, 100% 1991, 98% avg.; 25% dough, 61% 1991, 44% avg. Soybean 11% fair, 61% good, 28% excellent; 97% blooming. 94% 1991, 96% avg.; 53% setting pods, 62% 1991, 61% avg. Sorghum 2% poor, 14% fair, 60% good 24% excellent; 33% headed, 73% 1991, 68% avg. Alfalfa 2% poor, 32% fair, 53% good, 13% excellent; third cutting 18%, 26% 1991, 38% avg. Pasture, range 100% of normal.

NEVADA: Period began with high pressure system, temperatures generally above average but not dramatically so. As week progressed low pressure cooled weather, produced thunderstorms with some heavy rainfall. Rainfall 0.02 in. to 1.57 in.; heaviest east central areas. Northeast reported smoky skies as fires continued to burn.

Irrigation water supplies 75% very short, 15% short 10% adequate. Progress most crops ahead of normal. Winter wheat 75% harvested, 20% 1991, 45% avg. Spring wheat 50% harvested, 0% 1991, 40% avg. Barley 45% harvested, 0% 1991, 35% avg. Alfalfa hay second cutting 65% complete, 35% 1991, 55% avg. Pasture, range 50% of normal. Stockwater short many areas.

NEW ENGLAND: Precipitation none to 0.80 in. Maine and New Hampshire, with up to 3.40 in. Rumford, Maine; 0.35 to 2.20 in. Vermont, elsewhere north; 0.30 to 1.50 in. south. Temperatures mid to high 60s north, mid 60s to

low 70s south; 1° above normal to 3° below normal. Maximum temperatures high 70s to mid 80s north, high 70s to mid 80s south; minimum temperatures mid 40s to mid 50s north, south.

Days suitable for fieldwork 5. Soil moisture 6% short, 71% adequate, 23% surplus. Available grazing 16% short, 78% adequate, 6% surplus. Fieldwork progress 5 days behind schedule. Maine potatoes good. Rhode Island potatoes excellent, 8% harvested. Connecticut River Valley potatoes 6% harvested, 5% 1991, 2% avg.; good. Maine oats good. Field corn good. Sweet corn 25% harvested, 49% 1991, 30% avg.; good. Second cut hay 46% harvested, 60% 1991, 49% avg.; good. Third cut hay 5% harvested, 11% 1991, 11% avg.; good. Shade tobacco 33% harvested; good. Outdoor tobacco 21% harvested; good. Apple color fair to good, size medium; good. Peaches 19% harvested, size medium; good. Pear 5% harvested, size medium; good. Cranberry good to excellent. Maine wild blueberry 15% harvested, size medium; good to excellent. Major farm activities: Spraying for insects, harvesting vegetables, sweet corn, tomatoes, blueberries, haying.

NEW JERSEY: Temperatures much below normal. Extremes 44°; 92°. Rainfall 0.94 in. north, 0.45 in. central, 0.16 south. Heaviest 24-hour total 0.86 in. on 8th, 9th. Estimated soil moisture, in percent field capacity, averaged 84% north, 71% central, 58% south. Four inch soil temperatures averaged 67° north, 70° central, 71° south.

Soil moisture content short in some southern areas. Dandelion, dill, basil, broccoli rabe, collards, kale, okra, leeks, spinach, parsley, green onions, Chinese cabbage in light volume. Green beans, cabbage, beets, cucumbers, cantaloupes, watermelon in moderate supply. Eggplant, peppers, squash, tomatoes, sweet corn, peaches in good volume. Blueberries in light,, declining volume. Apples, early varieties being picked. Corn in dough, soybeans show pod setting in central areas. Pastures in southern areas showing effects of warm weather.

NEW MEXICO: Typical summer weather prevailed during the week. Temperatures averaged within a couple of degrees of normal at nearly all locations. Extremes ranged from 44° to 103°. Most of the state received some rainfall from thunderstorms with higher amounts close to 1.50 in.

Days suitable for fieldwork 6.0. Soil moisture 45% short, 52% adequate, 3% surplus. Light hail damage in isolated areas, no reports of major damage. Crop conditions: Alfalfa 16% fair, 81% good, 3% excellent. Corn, 1% poor, 4% fair, 95% good. Chile 19% fair, 81% good with harvest gaining momentum. Onions 13% fair, 81% good, 6% excellent with 87% of the States crop harvested. Apples 20% fair, 80% good. Pecans 29% fair, 71% good. Cattle, sheep mostly fair to good. Range, pasture 96% of normal.

NEW YORK: Rainfall adequate. Widespread showers, thunderstorms 3rd, 4th, 8th. Most areas got 0.50 to 1.50 in. Eastern areas experienced severe storms on 4th which produced wind and hail damage. Rest of the week: near or slightly below normal temperatures, dry weather. Extremes 43°; 87°.

Days suitable for fieldwork 3.9. Soil moisture mostly surplus. Pasture 90% of normal. Alfalfa second cutting 58% complete, 80% 1991, 64% avg. Wheat 76% harvested, 97% 1991, 96% avg. Corn mostly good, hay fair to mostly good. Drier weather needed for hay, wheat harvesting. Many vegetable growing areas received additional unwanted rainfall. Fields too wet for machinery to harvest or spray in some areas. More and more crops maturing and moving to market. Orange County onions in good condition. Tart cherry harvest 80% complete in Lake Ontario region.

Apples show excellent fruit development. Grape crop hampered by unseasonably cool, wet weather.

NORTH CAROLINA: Temperatures 5° below normal to near normal. Precipitation 4.37 in. at Longwood to no precipitation at a number of locations.

Days suitable for fieldwork 5.6. Soil moisture 6% very short, 32% short, 58% adequate, 4% surplus. Crop condition: Pasture 5% poor, 50% fair, 44% good, 1% excellent. Tobacco 4% poor, 40% fair, 54% good, 2% excellent. Corn 7% poor; 44% fair, 46% good, 3% excellent. Cotton 9% poor, 47% fair, 42% good, 2% excellent. Peanuts 4% poor, 11% fair, 85% good. Soybeans 5% poor, 34% fair, 60% good, 1% excellent. Hay 5% poor, 50% fair, 45% good. Irish potatoes 44% fair, 56% good. Sweet potatoes 23% fair, 75% good, 2% excellent. Apples 50% fair, 50% good. Peaches 20% very poor, 15% poor, 45% fair, 20% good. Sorghum 5% poor, 51% fair, 44% good; Truck crops 8% poor, 45% fair, 47% good. Cotton squared 88%, 100% 1991, 99% avg.; setting bolls 68%, 89% 1991, 87% avg. Corn silking 96%, 100% 1991, 99% avg.; soft dough 77%, 91% 1991, 82% avg.; dented 53%, 76% 1991, 61% avg.; mature 22%, 43% 1991, 28% avg. Soybeans flowering 49%, 63% 1991, 49% avg.; setting pods 20%, 35% 1991, 23% avg. Flue-cured tobacco harvested 37%, 35% 1991, 30% avg. Irish potatoes harvested 96%, 100% 1991, 97% avg. Peaches harvested 84%, 86% 1991, 82% avg. Hay, roughage supplies 3% short, 89% adequate, 8% surplus. Hay second cutting 70%. Hay third cutting 24%. Major activities: Topping, harvesting and marketing tobacco. Other activities: Harvesting hay; harvesting vegetables; spraying cotton and peanuts; tending livestock; equipment repair; general farm maintenance.

NORTH DAKOTA: Week started out cool; warmed by weekend. Light showers throughout State. Temperatures 8° below normal south central to 3° below normal northwest. Extremes 38° north central; 102° southwest. Precipitation 0.15 in. north central to 0.77 in. southeast.

Days suitable for fieldwork 5.8. Soil moisture supplies above last year, average. Topsoil 7% very short, 50% short, 43% adequate. Subsoil 14% very short, 44% short, 42% adequate. Small grain development, harvest continued far behind 1991, average. Spring wheat 2% poor, 20% fair, 66% good, 12% excellent; 5% swathed or combined, 65% 1991, 65% avg. Durum 1% poor, 28% fair, 61% good, 10% excellent; 1% swathed or combined, 35% 1991, 42% avg. Barley 1% poor, 22% fair, 57% good, 20% excellent; 19% swathed or combined, 84% 1991, 84% avg. Oats 3% poor, 29% fair, 66% good, 2% excellent; 14% swathed or combined, 74% 1991, 73% avg. Winter wheat 2% poor, 36% fair, 61% good, 1% excellent; 25% combined, 89% 1991, 88% avg. Late season crop development also far behind last year, average. Sugarbeets 83% good, 17% excellent. Corn 5% poor, 23% fair, 72% good; 4% milk to dough and beyond, 69% 1991, NA avg. Flax 33% fair, 61% good, 6% excellent; 1% swathed or combined, 7% 1991, 6% avg. Potatoes 100% good; 1% vines killed not dug, 8% 1991, 4% avg. Soybeans 13% fair, 87% good; none fully podded, 71% 1991, 48% avg. Dry beans 13% fair, 87% good; 3% fully podded, 74% 1991, 56% avg. Sunflower 10% poor, 23% fair, 67% good; 27% bloom and beyond, 78% last year, 76% avg. Range, pasture conditions 68% of normal. Hay crop condition 67% of normal. Alfalfa hay second cutting 54% complete, other hay first cutting 92% complete. Stockwater supplies 5% very short, 33% short, 62% adequate.

OHIO: Many areas experienced welcomed dry weather by the middle, latter part of the week. Rain fell early in the week and isolated severe storms occurred late Saturday. Despite highs in the mid to upper 80s by 9th, temperatures 2 to 4°

cooler than normal causing growing degree day accumulations to continue lagging behind normal. Highs mid 70s to low 80s. Lows mid 50s to low 60s with parts of the north experiencing lows in the 40s 6th morning. Precipitation below 0.25 in. to over 1.00 in.

Days suitable for fieldwork 5.3. Topsoil 1% short, 67% adequate, 32% surplus. Hay 5% very poor, 9% poor, 30% fair, 47% good, 9% excellent. Pasture 1% very poor, 3% poor, 23% fair, 55% good, 18% excellent. Oats 5% very poor, 10% poor, 35% fair, 43% good, 7% excellent. Winter wheat harvest is nearing completion after long delays due to weather. Seasonal fruit and vegetable harvest continues.

OKLAHOMA: Temperatures 5° below normal north central to 1° above normal southwest. Precipitation 0.02 in. southwest to 2.43 in. north central.

Days suitable for fieldwork 4.0. Topsoil 19% short, 37% adequate, 44% surplus. Subsoil 100% adequate. Wheat 93% plowed, 97% 1991, 95% avg.; 10% seedbed prepared, 23% 1991, 24% avg. Cotton 24% poor, 7% fair, 69% good; 98% squaring, 94% 1991, 91% avg.; 27% setting bolls, 78% 1991, 63% avg.; 0% open bolls, 0% 1991, 1% avg. Sorghum 1% poor, 2% fair, 87% good, 10% excellent; 41% headed, 51% 1991, 53% avg.; 9% milk to soft, 16% 1991, 21% avg.; 1% mature, 10% 1991, 2% avg. Corn 93% milk to soft, 92% 1991, 80% avg; 7% mature, 14% 1991, 19% avg. Soybeans 46% flowering, 58% 1991, 60% avg.; 25% setting pods, 26% 1991, 32% avg. Peanuts 89% pegging, 87% 1991, 91% avg. Pastures 103%. Cattle good; marketings average, prices steady to higher.

OREGON: Temperatures near normal statewide. Precipitation northwestern areas, amounts 0.41 to 0.76 in. Elsewhere dry.

Soil moisture .90% short, 10% adequate. Winter wheat 83% harvested. Barley 63% harvested. Grass seed, hay, mint harvest continues. Field corn setting ears, grass straw baling, some grass seed burning; western areas. Hops nearing harvest, Willamette Valley. Apples, Evergreen blackberry, peach harvest continues, training caneberrys; Willamette Valley. Bartlett pear harvest winding down, Hood River Valley (lower elevations), Willamette Valley, Medford areas; getting started higher elevations in Hood River Valley. Winter pear harvest beginning, Medford district. Hazelnut crop rapidly maturing, some dropping. Cranberry conditions good to excellent, southern coast. Early fresh market potato, onion harvest continues, Hermiston-Boardman district, Malheur Co. Processing sweet corn harvest continues, early maturity causing some processing problems. Onions, green beans, broccoli, and many other vegetables being harvested, Willamette Valley. Irrigation has been shut off in some Malheur Co. districts. Livestock continued good. Stock water continues to be short, continue to haul water. Hay and protein supplements being feed. Extreme fire conditions shut down activities on federal lands. Fires have burnt thousands of acres, southern areas. Range, pasture condition 49% of normal.

PENNSYLVANIA: Temperature 72°, 1° above normal. Extremes 42°; 85°. Precipitation 1.01 in., 0.15 in. above normal.

Days suitable for fieldwork 5. Soil moisture 11% short, 73% adequate, 16% surplus. Corn 60% silk, 83% 1991, 69% avg.; 3% dough, 34% 1991, 19% avg.; 0% dent, 4% 1991, 2% avg. Corn 5% poor, 12% fair, 46% good, 37% excellent. Soybean 3% poor, 13% fair, 51% good, 33% excellent. Wheat harvest 81% complete, 99% 1991. Oat harvest 50% complete, 85% 1991. Barley harvest 89% complete, 99% 1991. Tobacco harvest 0% complete, 18% 1991. Potato harvest 3% complete, 13% 1991. Second cutting alfalfa 60% complete, 86% 1991. Third cutting

alfalfa 15% complete, 32% 1991. Second cutting clover timothy 34% complete, 55% 1991. Feed from pastures 0% very poor, 11% poor, 39% fair, 50% good. Quality of hay made 8% poor, 51% fair, 41% good. Apple harvest 2% complete, 10% 1991. Peach condition 19% complete, 47% 1991. Fall plowing 2% complete, 6% 1991. Activities: Spraying; hauling manure; maintaining machinery; cutting, baling hay; combining; some fruit, vegetable harvesting; fixing fence; caring for livestock.

PUERTO RICO: No Weather Data Available.

SOUTH CAROLINA: Temperatures across State 2 to 4° above normal. Rainfall 0.90 in. statewide.

Days suitable for fieldwork 6.0. Soil moisture 14% very short, 50% short, 36% adequate. Tobacco fair; 60% harvested, 64% 1991, 51% avg; 3% stalks destroyed, 4% 1991, 3% avg. Corn fair to good; 64% mature, 76% 1991, 60% avg; 11% harvested, 11% 1991, 10% avg. Cotton fair to good; 87% setting bolls, 96% 1991, 87% avg. Soybeans fair to good; 59% blooming, 62% 1991, 53% avg.; 25% setting pods, 29% 1991, 21% avg. Peaches fair; 79% harvested, 83% 1991, 82% avg. Watermelons fair; 94% harvested, 88% 1991, 88% avg. Cantaloupes fair to good; 85% harvested, 86% 1991, 84% avg. Cucumbers fair to good; 90% harvested, 89% 1991. Apples fair to good; 0% harvested, 8% 1991, 4% avg. Grapes fair to good. Fall hay fair; 41% harvested, 35% 1991, 33% avg. Peanuts fair to good. Sorghum fair; 95% planted, 99% 1991, 99% avg.; 10% harvested, 11% 1991, 12% avg. Pastures fair. Scattered rainfall helped sustain soil moisture.

SOUTH DAKOTA: Temperatures near normal to 7° below normal. Extremes 34°; 103°. Rainfall under 1.00 in. west to 3.00 in. east. Maximum 3.09 in.

Days suitable for fieldwork 2.3. Topsoil 2% very short, 4% short, 55% adequate, 39% surplus. Subsoil 1% very short, 15% short, 66% adequate, 18% surplus. Rye 8% very poor, 15% poor, 37% fair, 39% good, 1% excellent. Winter wheat 9% very poor, 22% poor, 40% fair, 29% good. Barley 1% very poor, 6% poor, 22% fair, 63% good, 8% excellent. Oats 5% poor, 31% fair, 55% good, 9% excellent. Flax 2% very poor, 1% poor, 51% fair, 32% good, 14% excellent. Sunflowers 1% poor, 28% fair, 53% good, 18% excellent. Winter rye 24% harvested, 100% 1991, 98% avg. Barley 21% harvested, 89% 1991, 93% avg. Oats 30% harvested, 93% 1991, 94% avg. All crop progress remains behind normal due to wet conditions. Livestock 1% very poor, 3% fair, 69% good, 27% excellent. Pasture 94% of normal.

TENNESSEE: No Weather Data Available.

Days suitable for fieldwork 4.5. Soil moisture 1% very short, 16% short, 80% adequate, 3% surplus. Corn 79% dough, 68% 1991, 69% avg.; 40% dent, 41% 1991, 37% avg.; 4% mature, 6% 1991, 5% avg.; 3% fair, 54% good, 43% excellent. Cotton 97% setting bolls, 90% 1991, 93% avg.; 1% open bolls, 0% 1991, 0% avg.; 17% fair, 75% good, 8% excellent. Sorghum 89% headed, 69% 1991, 79% avg.; 18% turning color, 11% 1991, 24% avg.; 2% mature, 1% 1991, 1% avg.; 5% fair, 78% good, 17% excellent. Soybeans 72% blooming, 52% 1991, 59% avg.; 38% setting pods, 15% 1991, 27% avg.; 3% fair, 78% good, 19% excellent. Tobacco 68% topped, 64% 1991, 53% avg.; 1% very poor, 1% poor, 28% fair, 68% good, 2% excellent. Burley 7% harvested, 12% 1991, 7% avg. Dark Air-Cured 7% harvested, 5% 1991, 4% avg. Dark Fire-Cured 7% harvested, 7% 1991, 4% avg. Pastures 1% poor, 9% fair, 77% good, 13% excellent. Cattle 4% fair, 87% good, 9% excellent.

TEXAS: Upper level high pressure was the dominant weather feature. This resulted in below

normal rainfall statewide. Early week, upper level disturbance from the Gulf triggered showers over southeast. At midweek, cool front brought some thunderstorms to Panhandle, northeast. Temperatures slightly below normal for week. Hot weather prevailed late in week.

Crops: Corn fields dried rapidly, some harvesting began in the Blacklands. Harvest activities progressed with few delays. Some fields in High Plains harvested for silage. Cotton fields benefited from hot weather and occasional showers early in week. Development improved, additional moisture needed soon. Insects sprouted over the Low Plains. Fields defoliated in Rio Grande Valley where harvest is underway. Rice fields progressed rapidly last week. Harvest activities gained momentum along the Upper Coast. Grain sorghum fields irrigated on the Plains last week. Young plants progressed, development slowed due to low moisture. In the Blacklands corn earworms caused some leaf damage to sorghum. Harvest activities virtually complete in Coastal Bend. Peanut fields at good stands with large pod sets on early planted nuts. Leaf spot treatment underway in Central Texas. Insect and disease problems minimal. Statewide peanut condition 86% compared with 82% last year. Some early planted soybean fields harvested in the Blacklands and East Texas. Stink bug problems active in late maturing fields. Some fields irrigated on the Plains. Dryland fields need rain soon to continue good growth.

Commercial Vegetables: In East Texas, summer vegetable harvest winded down. Sweet potatoes progressed well. On the High Plains, vegetable harvest continued. Quality poor in some areas. Insect problems in some melon fields. In the Trans-Pecos, chile harvest continued where peppers matured rapidly. Irrigation continued. In the Rio Grande Valley, land preparations for fall crops continued. Cover crops being plowed under, some watermelons planted. Pecan trees with heavy load had additional watering on the Plains. Development good with some insect problems. Sprayed for shuckworms in Central Texas.

Range and Livestock: Range and pasture conditions good, some pastures dried down from lack of moisture. Forage supplies adequate, rapidly declining. Sheep shearing in the Hill Country. Protein blocks fed to livestock in some areas.

UTAH: Temperature maximums, minimums both 4° above normal. Light precipitation was reported from all areas except the south central division, where precipitation was moderate.

Days suitable for fieldwork 6.3. Soil moisture 88% short, 12% adequate. Irrigation water supply 22% very short, 75% short, 3% adequate. Stock water supply 46% very short, 24% short, 30% adequate. Winter wheat harvested 89%, 71% 1991, 81% avg. Spring wheat: ripe 95%, 75% 1991; harvested 60%, 48% 1991, 59% avg. Barley: ripe 94%, 74% 1991; harvested 66%, 49% 1991, 63% avg. Oats: turning 93%, 82% 1991; ripe 60%, 37% 1991, 62% avg; harvested for hay or silage 80%, 60% 1991, 70% avg.; harvested for grain 31%, 13% 1991, 26% avg. Corn tasseling 79%, 59% 1991, 74% avg. Corn in dough 8%. Alfalfa 2nd cutting 92%, 72% 1991, 84% avg. Alfalfa 3rd cutting 17%, 4% 1991. Other hay cut 86%, 85% 1991. Hay, roughage supplies 23% short, 46% adequate, 31% surplus. Peaches picked 33%. Pasture, range poor to fair.

VIRGINIA: Temperatures averaged about 4° below normal. Extremes 44°; 95°. Showers, thunderstorms were scattered with 4.46 in. recorded at Kerr Dam.

Days suitable for fieldwork 5.3. Topsoil moisture 2% very short, 18% short, 76% adequate, 4% surplus. Pasture 6% poor, 13% fair, 65% good, 16% excellent. Alfalfa 5% poor, 14% fair, 48% good, 33% excellent. Other hay 3% very poor, 2%

poor, 24% fair, 52% good, 19% excellent. Corn silked 85%, 85% 1991, 80% avg.; dough stage 47%, 60% 1991, 48% avg.; dented 23%, 37% 1991, 27% avg.; silage harvested 3%, 4% 1991, 3% avg.; 4% poor, 34% fair, 45% good, 17% excellent. Soybeans 45% bloomed, 58% 1991, 49% avg.; setting pods 20%, 35% 1991, 30% avg.; 3% poor, 47% fair, 50% good. Peanuts mostly good. Flue tobacco 23% harvested, 26% 1991, 15% avg. Fire tobacco 7% harvested, 10% 1991, 7% avg. Sun tobacco 0% harvested, 7% 1991, 7% avg. Burley tobacco 0% harvested, 3% 1991, 2% avg. Tobacco 46% fair, 50% good, 4% excellent. Topping, suckering, harvesting tobacco very active. Potato harvest virtually complete. Peach harvest about 50% completed, the summer apple harvest continued. Apple 38% fair, 50% good, 12% excellent. Livestock mostly good. Harvesting tomatoes, cucumbers, peppers. Planting cucumbers, snapbeans, peppers.

WASHINGTON: Temperatures near normal west; 4° below to 3° above normal east. Rainfall 0.30 to 1.98 in. west; none to 0.05 in. east.

Days suitable for fieldwork 6.6. Soil moisture 46% short, 54% adequate. Hay, other roughage 89% adequate, 11% surplus. Range, pasture 62% poor, 29% fair, 9% good. Winter wheat 80% harvested, 29% 1991, 55% avg. Barley 73% harvested, 22% 1991, 47% avg. Alfalfa hay second cut 95% complete, 78% 1991, 86% avg. Spring wheat 77% harvested, 35% 1991, 39% avg. Dry peas 73% harvested, 44% 1991, 67% avg. Potatoes 14% harvested, 8% 1991, 9% avg. Small grain harvest advances rapidly, under ideal weather conditions. Wheat, barley harvest complete some central locations; many other areas winding down. East two weeks ahead of normal. Sprout damage generally low, spotty. Potato harvest advanced slowly; late blight concern to producers. Gala variety apples to be picked soon, central areas. Peach, nectarines picked. Bartlett pear harvest progressed; good size, quality. Blueberries picked; quality excellent. Squash, tomatoes, other vegetables harvested west; insects a problem. Radish seed harvest complete, onion seed harvest began Grant Co. Pasture feed shortages exist; producers have sold cattle some cases.

WEST VIRGINIA: Temperature 69°. Extremes 48°, 90°. Precipitation averaged 0.72 in.

Days suitable for fieldwork 4.9. Soil moisture, 5% short, 90% adequate, 5% surplus. Tobacco, 28% poor, 28% fair, 44% good; 53% topped. Gardens, good. Oats, 44% fair, 56% good; 96% ripe. Wheat, good; 80% harvested. Hay, 23% fair, 77% good; 100% first cut, 48% second cut. Apples, good. Peaches, good. Corn, 2%

(Continued from front cover)

more than 8 inches of rain drowned southern Okmulgee County. Also at midweek, isolated cloudbursts hit the **Great Basin**. Late in the week, rain and cooler weather pushed into the **Northwest**, aiding fire-fighters in six States, where more than 300,000 acres of brush and timber have burned since late July. Temperatures on Saturday dropped to as low as 40°F in **Redmond, OR**, and 41°F in **Yakima, WA**. But farther east, **Rapid City, SD**, warmed to 103°F, where it had not even reached 90°F since mid-May. Meanwhile, major flooding developed in **northern Kentucky** and **southern Indiana**. Nearly 10 inches of rain battered **Crothersville, IN**, on Saturday morning.

(Continued from p. 9)

in New Mexico, Oklahoma, and Texas remained in poor or very poor condition due to earlier storm damage. By the end of the month, cotton progress remained well behind normal in the southern Plains and was somewhat delayed in the Southeast. Squaring was 89% complete in the 14 major producing States, compared with 95% last year and 96% average. Bolls were setting on 64% of the acreage, 11 points behind last year and 10 points behind the average. Harvest was beginning in the Rio Grande Valley.

fair, 66% good, 32% excellent; 74% silked, 43% dough stage. Pastures, 15% fair, 49% good, 36% excellent; 92% of normal. Cattle, good. Sheep, good. Soybeans, 14% fair, 46% good, 40% excellent; 43% blooming. Farm activities: General maintenance, cutting hay, clipping pastures, gardening, hay, wheat harvest, topping tobacco, harvesting peaches, apples.

WISCONSIN: Temperature 66°; 3° below normal. Extremes 37°; 96°. Precipitation 0.50 to 1.10 in. Warmer weather over the weekend helped growth of crops.

Days suitable for fieldwork 5.7. Soil moisture 40% short, 60% adequate. Pasture 75% of normal, 75% 1991, 66% avg. General condition of crops 1% very poor, 2% poor, 41% fair, 53% good, 3% excellent. Oats 1% very poor, 9% poor, 43% fair, 42% good, 5% excellent. Oats harvested 19%, 67% 1991, 62% avg. Corn 2% very poor, 9% poor, 35% fair, 47% good, 7% excellent; 62% silked, 88% 1991, 86% avg.; 6% in dough stage or beyond, 42% 1991, 28% avg. Second crop hay 70% harvested, 81% 1991, 77% avg. Third crop hay 6% harvested, 9% 1991, 9% avg. Soybean 1% poor, 21% fair, 66% good, 12% excellent. Winter wheat 43% harvested, 95% 1991, 79% avg.

WYOMING: Temperatures near normal. Southwest region was the exception where temperatures were 4 to 6° above normal. Precipitation was below normal across most of the State. Isolated areas in the southeast 0.50 in. above normal.

Days suitable for fieldwork 6.4. Topsoil 58% short, 42% adequate. Subsoil 56% short, 44% adequate. Spring wheat 3% headed; 37% turning color, 44% 1991, 21% avg.; 37% mature, 38% 1991, 41% avg.; 23% harvested, 38% 1991, 42% avg. Oats 8% headed; 32% turning color, 27% 1991, 30% avg.; 37% mature, 50% 1991, 43% avg.; 23% harvested, 23% 1991, 25% avg. Barley 8% headed; 18% turning color, 22% 1991, 14% avg.; 34% mature, 29% 1991, 36% avg.; 40% harvested, 49% 1991, 48% avg. Winter wheat 7% turning color, 1% 1991, 1% avg.; 33% mature, 25% 1991, 17% avg.; 60% harvested, 74% 1991, 83% avg. Potatoes 95% in bloom. Dry beans 85% in bloom, 100% 1991, 89% avg.; 73% setting pods, 81% 1991, 70% avg.; 1% turning color, 2% 1991, 4% avg. Corn 64% tasseled, 96% 1991, 85% avg.; 31% silked, 57% 1991, 58% avg.; 9% milk, 15% 1991, 22% avg.; 1% dough, 1% 1991, 4% avg. Alfalfa 95% of first cutting completed; 29% of second cutting completed, 39% 1991, 44% avg. Other hay 65% of acreage harvested, 79% 1991, 80% avg. Ninety four percent of the cattle, 93% of the sheep will be wintered in State compared to 1991. Condition of livestock 4% fair, 92% good, 4% excellent. Stockwater supplies 37% short, 63% adequate.

Grain sorghum planting was almost complete entering July, with limited planting continuing in the southern Plains and Rocky Mountains. Additional acreage was being seeded on the Texas plains to replace failed cotton acreage. The crop was heading earlier than usual in the Delta, but was later than normal in the southern Plains. Harvest began in southern Texas early in the month. Cooler-than-normal weather in the Great Plains and middle Mississippi Valley during July kept crop development behind schedule. Heading was 40% complete in the 12 major producing States by August 2, 12 points behind last year and 10 points behind the 5-year average. Twenty-one percent of the grain sorghum was coloring, compared with 21% last year. Harvest was winding down in south Texas and the Rio Grande Valley.

In early July, **rice** was heading ahead of schedule in the southern Delta, but was late in Texas. Rice crop development during the month remained ahead of schedule for the five major producing States, despite the lateness of the Texas crop. By August 2, rice was 56% headed in the five major States, 12 points ahead of both last year and the average. Harvest was underway in Louisiana and Texas, and was 6% complete for the five States. Rains were slowing harvest in southern Louisiana.

International Weather and Crop Summary HIGHLIGHTS

August 2 - 8, 1992

FSU: In western areas, continued unseasonably warm, dry weather helps winter and spring grain harvests, but reduces prospects for summer crops in the filling stage. In the **New Lands**, favorable weather covers spring grains in the filling stage.

EUROPE: Warm weather and only scattered rain increases crop stress in the east.

SOUTH ASIA: Timely rain helps reproductive crops in India's southern interior.

SOUTHEAST ASIA: Beneficial rain continues over Thailand. Showers taper off over the Philippines.

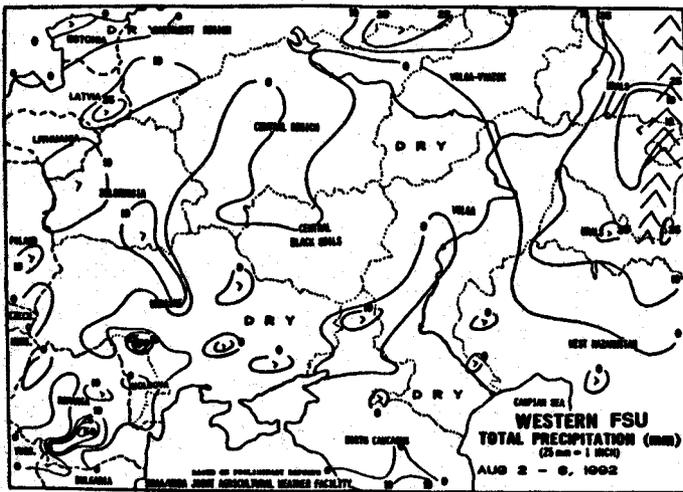
EASTERN ASIA: Seasonal showers aid summer crops, while favorable weather helps southern rice maturation.

AUSTRALIA: Moderate rain brings relief to the eastern winter wheat areas.

SOUTH AMERICA: Topsoil moisture is becoming limited across portions of Argentina.

MEXICO: Showers benefit corn, but dryness persists across the northeast.

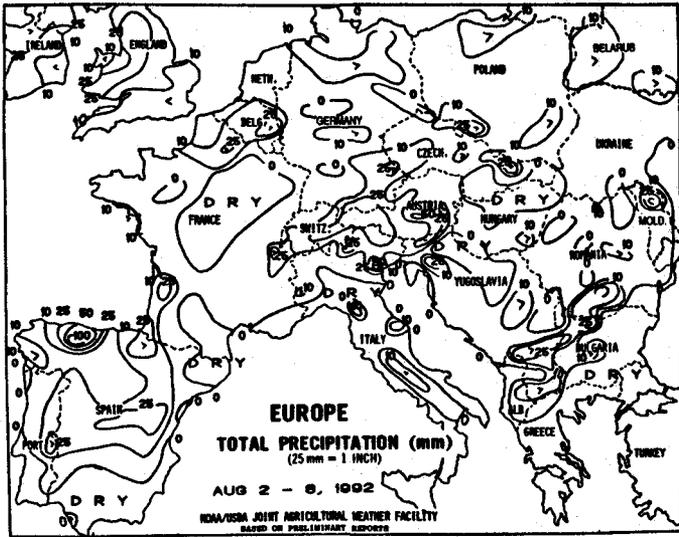
CANADA: Drier and warmer weather is favorable for Manitoba's filling grains and oilseeds. Other northern and eastern Prairie locations need rain.



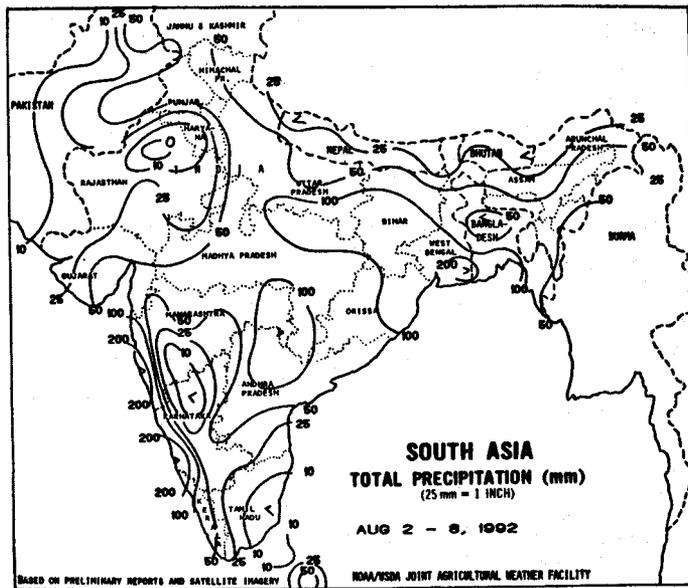
FSU - WESTERN: High pressure prevailed over the region, providing abundant sunshine and unseasonably warm, dry weather. Although most areas received little, if any, precipitation (less than 6 mm), spotty locations in the Baltic States, southern Belarus, and central Ukraine received rainfall ranging from 10 to 23 mm. Average temperatures were 2-4 degrees Celsius (C) above normal, with daytime temperatures climbing to readings that ranged from 31 to 35 C. The warm, dry weather accelerated ripening in spring grains, and allowed winter and spring grain harvests to progress rapidly. Continued unseasonably warm, dry weather in the Baltic States, Belarus, Northwest Region, Central Region, and the western two-thirds of Ukraine negatively affected corn, sugar beets, and sunflowers in the filling stage. Rain is needed to prevent further losses in yield potential.



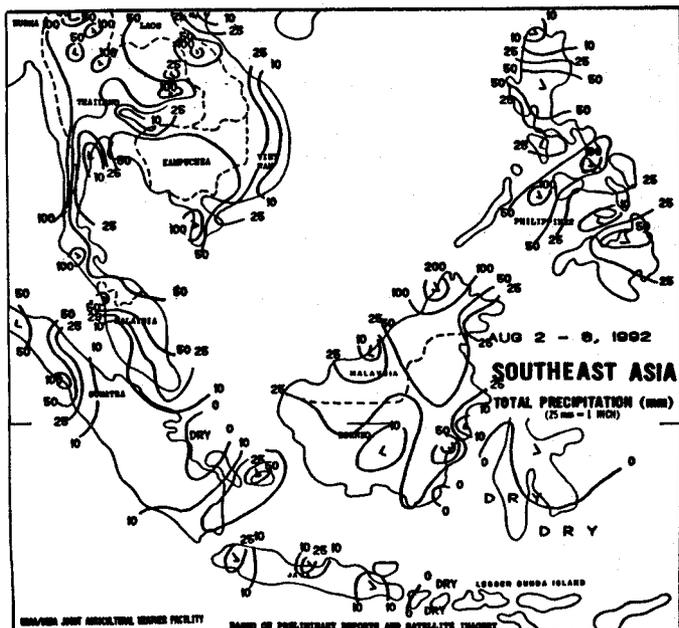
FSU - NEW LANDS: Wet weather (19-45 mm) continued over the northern Urals, benefiting spring grains in the filling stage. Precipitation over the remainder of the region was light and scattered (less than 10 mm), except for crop areas in the extreme east, where rainfall was moderate to heavy (36-54 mm). Average temperatures, ranging from 1 to 2 degrees C below normal, continued to slow crop development. Maximum temperatures ranged from 25 to 30 degrees C, while minimum temperatures ranged from 5 to 12 degrees C.



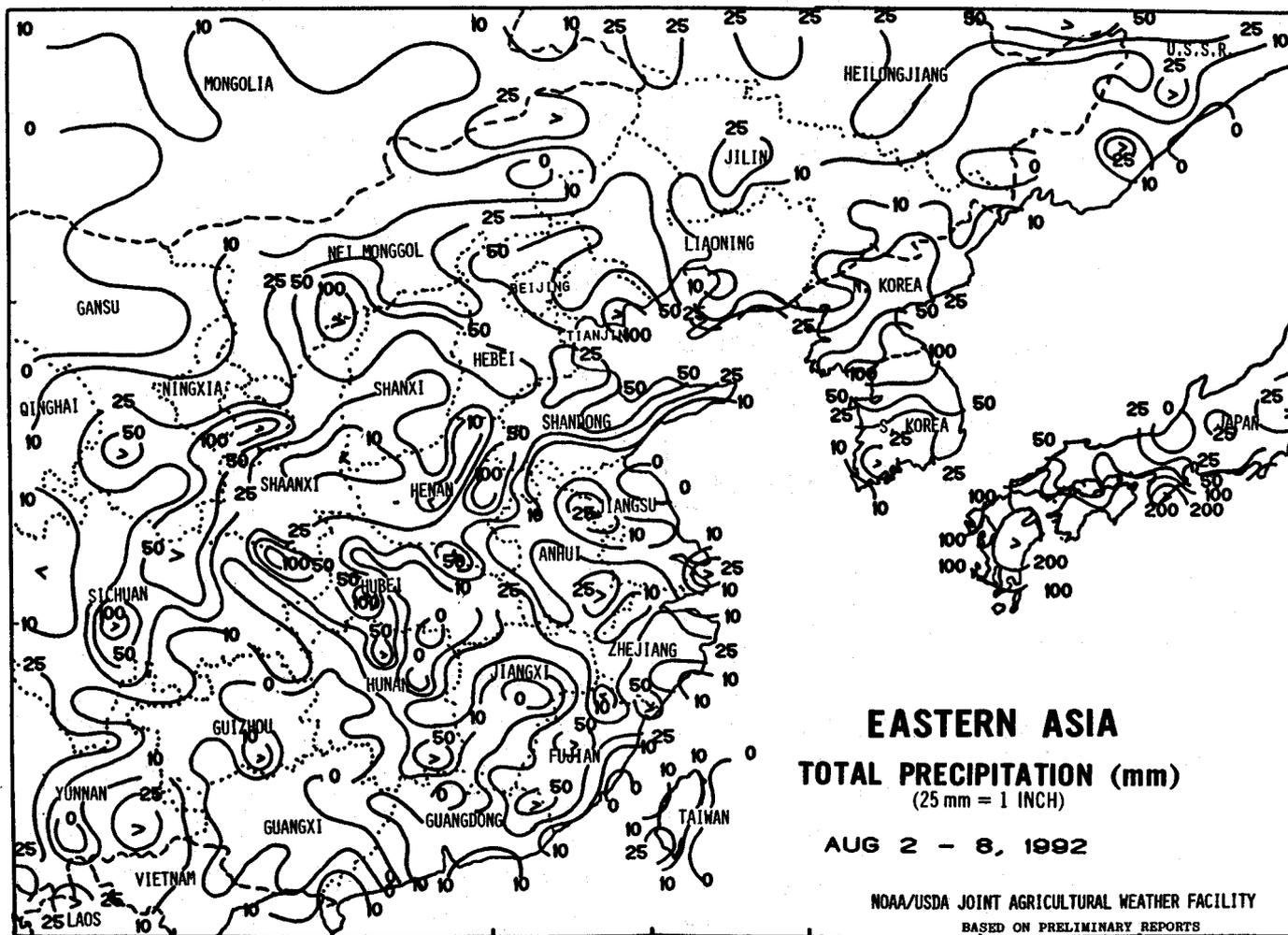
EUROPE: Mostly light showers (2-10 mm), with scattered moderate rainfall (10-41 mm), fell across northern Europe from extreme northern France to Poland. The moisture caused little interference to grain and oilseed harvesting. Little or no rain fell over most of France, Italy's Po Valley, central Germany, eastern Czechoslovakia, and much of southeastern Europe. A narrow area of 10-51 mm rainfall moistened southern Romania and southeast Yugoslavia. However, a general drying trend, which developed in June in the northeast, expanded to cover much of eastern Europe. Average temperatures ranged from 3 to 6 degrees C above normal throughout the region, hastening development of summer crops but increasing stress in the moisture deficient east. Unusually heavy showers covered the northern half of Spain, where dry weather would be welcomed during the next several weeks for summer crop harvesting.



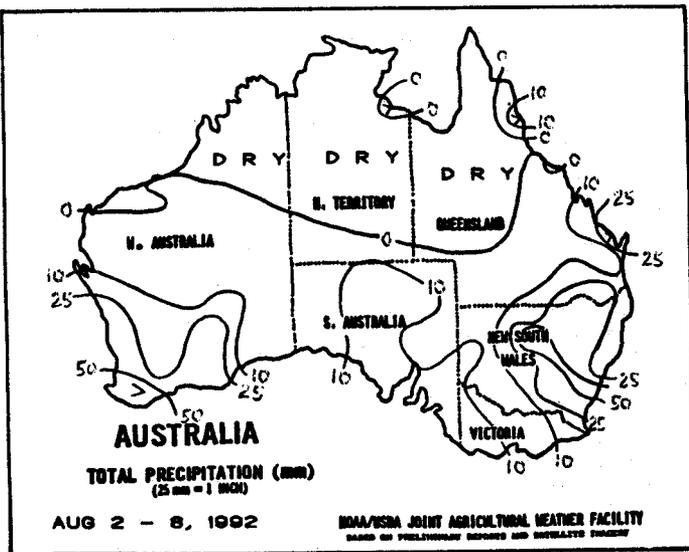
SOUTH ASIA: Much-needed rain returned to primary rainfed grain, oilseed, and cotton areas of India's southern interior, providing timely moisture to crops approaching reproduction. Rainfall totaled 25-50 mm or more over most locations from Maharashtra southward, with a large section of northern Andhra Pradesh and eastern Maharashtra receiving more than 100 mm. A dry slot persists, however, on the lee side of the western Ghats in Maharashtra and Karnataka. Widespread showers (35-216 mm) maintained mostly favorable moisture conditions over central and eastern India, including Gujarat's primary groundnut regions. Isolated, heavy showers caused some flooding from Gujarat to southern Pakistan. Although the monsoon is not fully established over northern India and Pakistan, beneficial showers (25-101 mm) fell from northern Pakistan to India's Bihar state, boosting irrigation reserves and improving prospects for rainfed rice, concentrated in Uttar Pradesh. Dry pockets persisted, however, over northern and eastern Rajasthan and adjacent sections of Punjab and Haryana. While most crops in northern India and Pakistan are irrigated, agriculture is intensive, and strengthening of the monsoon is vital for replenishment of reservoirs, especially in winter wheat areas.



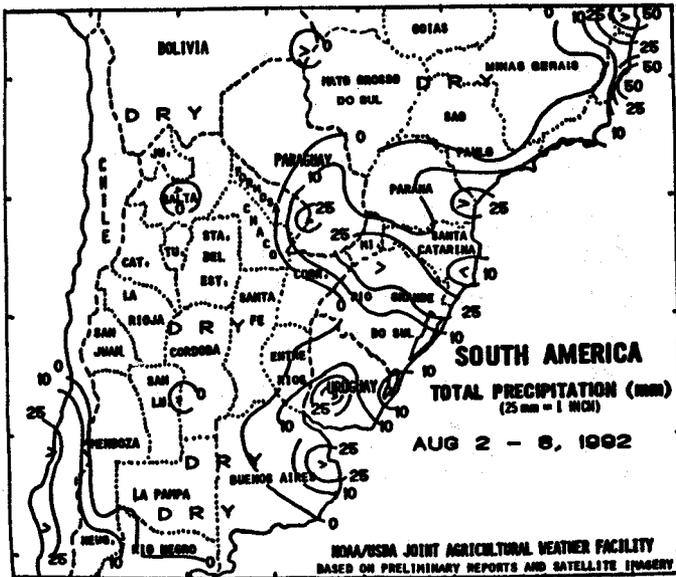
SOUTHEAST ASIA: Moderate to heavy showers (35-118 mm) were widespread over Thailand, continuing to improve prospects for main-season rice, corn, and sugarcane. Moderate to heavy rain (25-104 mm) continued over the Mekong Delta, but only light rain (10 mm or less) fell in the north and along the central coast. The dryness in the north was welcomed following July's typhoon related flooding. In the Philippines, moderate to heavy showers (25-87 mm) continued over southern Luzon and were scattered throughout the Visayans and Mindanao. Dry pockets intensified over northern Luzon, as well as the island of Negros, which produces a large share of the Philippines' sugarcane.



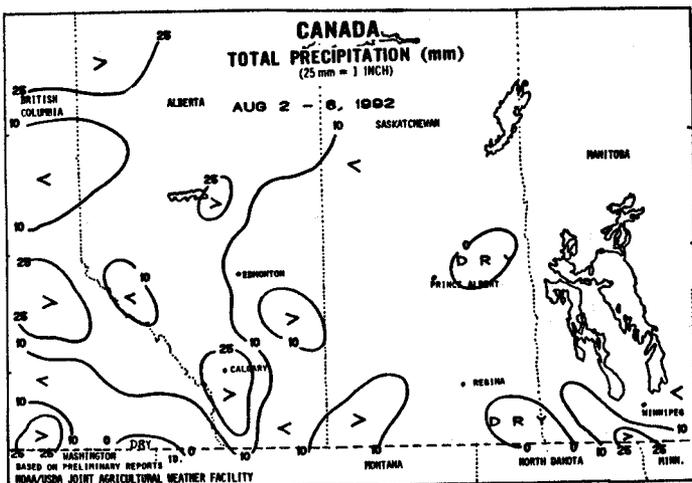
EASTERN ASIA: Variable showers (10-90 mm) over the North China Plain aided reproductive to filling summer crops. Continued rain is needed for summer crops since soil moisture levels are relatively low due to spring and early summer dryness. Persistent moderate rain (28-62 mm) across extreme northern China delayed spring wheat harvesting. Manchuria received light to moderate rain (8-30 mm), favoring reproductive to filling corn and soybeans. Scattered showers covered central and southern China, keeping reservoir levels high, while sunny weather favored grain-filling to maturing single-crop rice. Tropical storm Irving dissipated over southern Japan on August 5, bringing moderate rainfall. Typhoon Janis hit southern Japan (Kyushu) on August 8, with sustained winds of 104-127 mph, producing heavy rain (116-241 mm) and associated flooding. The storm then moved northeastward across Hokkaido, diminishing in strength, but still bringing widespread rain (25-75mm). Temperatures averaged 2-4 degrees C above normal across central and southern China and near normal elsewhere.



AUSTRALIA: Very beneficial rain (15-61 mm) fell across eastern Australia, relieving previous dryness and aiding germinating winter wheat. Western winter grain areas continued to receive moderate (13-48 mm) rain, benefiting early winter wheat growth. The remaining southern wheat areas received light rain (10-18 mm), keeping topsoils moist. Temperatures averaged 3-4 degrees C above normal in southern Queensland and near normal in the other winter grain regions.



SOUTH AMERICA: In Argentina, light to moderate rain (6-28 mm) fell across central and eastern Buenos Aires, favoring winter wheat germination and early growth. However, topsoils are becoming dry in Cordoba and Santa Fe. The planting of double-cropped winter wheat after soybeans is still continuing due to previous delays in soybean harvesting. Across southern Brazil, light to moderate rain (11-29 mm) kept soil moisture levels abundant for reproductive to filling winter wheat. Temperatures averaged 1-3 degrees C below normal across the winter grain areas of central Argentina and southern Brazil.



CANADA: Drier, warmer weather continued over eastern Saskatchewan and Manitoba, improving growth of Manitoba's grains and oilseeds but reducing moisture for Saskatchewan's crops. However, temperatures still averaged 1-3 degrees C below normal. Drier weather, accompanied by near- to above-normal temperatures, returned to crops of northern Alberta and northwest Saskatchewan, increasing evapotranspiration rates of filling crops that are growing with limited moisture. Scattered showers (5-34 mm) continued to improve topsoil moisture across the southwest. Further east, moderate to heavy showers (10-76 mm) covered crop areas of Ontario and Quebec, improving moisture for immature corn and other spring crops. However, winter wheat harvests were behind schedule, and some lodging was possible in isolated areas.

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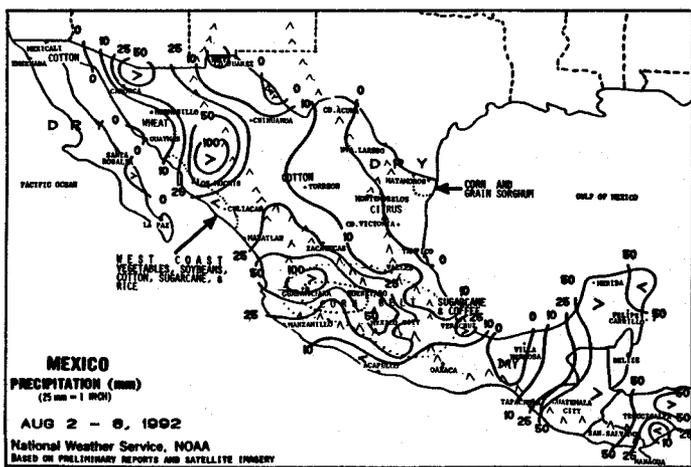
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MEXICO: Widespread showers (31-108 mm) covered the Southern Plateau corn belt, benefiting vegetative to reproductive corn. Moderate to heavy rain (21-125 mm) again fell across the northwest, favoring reservoir levels, but causing local flooding. The northeast remained dry, continuing to limit soil moisture for corn and sorghum. Temperatures averaged near normal across the corn belt.

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