

WEEKLY WEATHER AND CROP BULLETIN

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

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

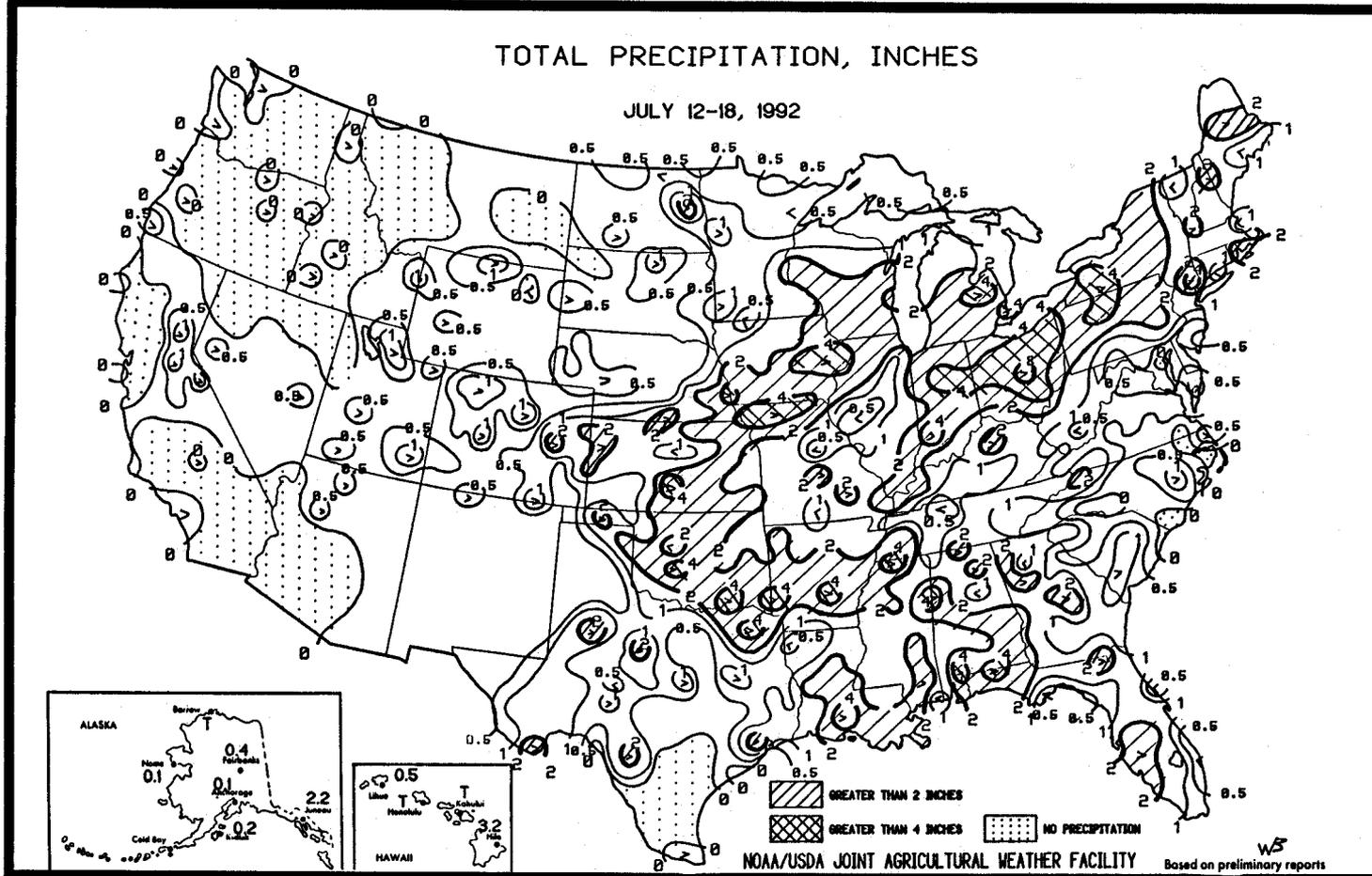
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July 21, 1992

TOTAL PRECIPITATION, INCHES

JULY 12-18, 1992



NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY

Based on preliminary reports

HIGHLIGHTS

July 12 - 18, 1992

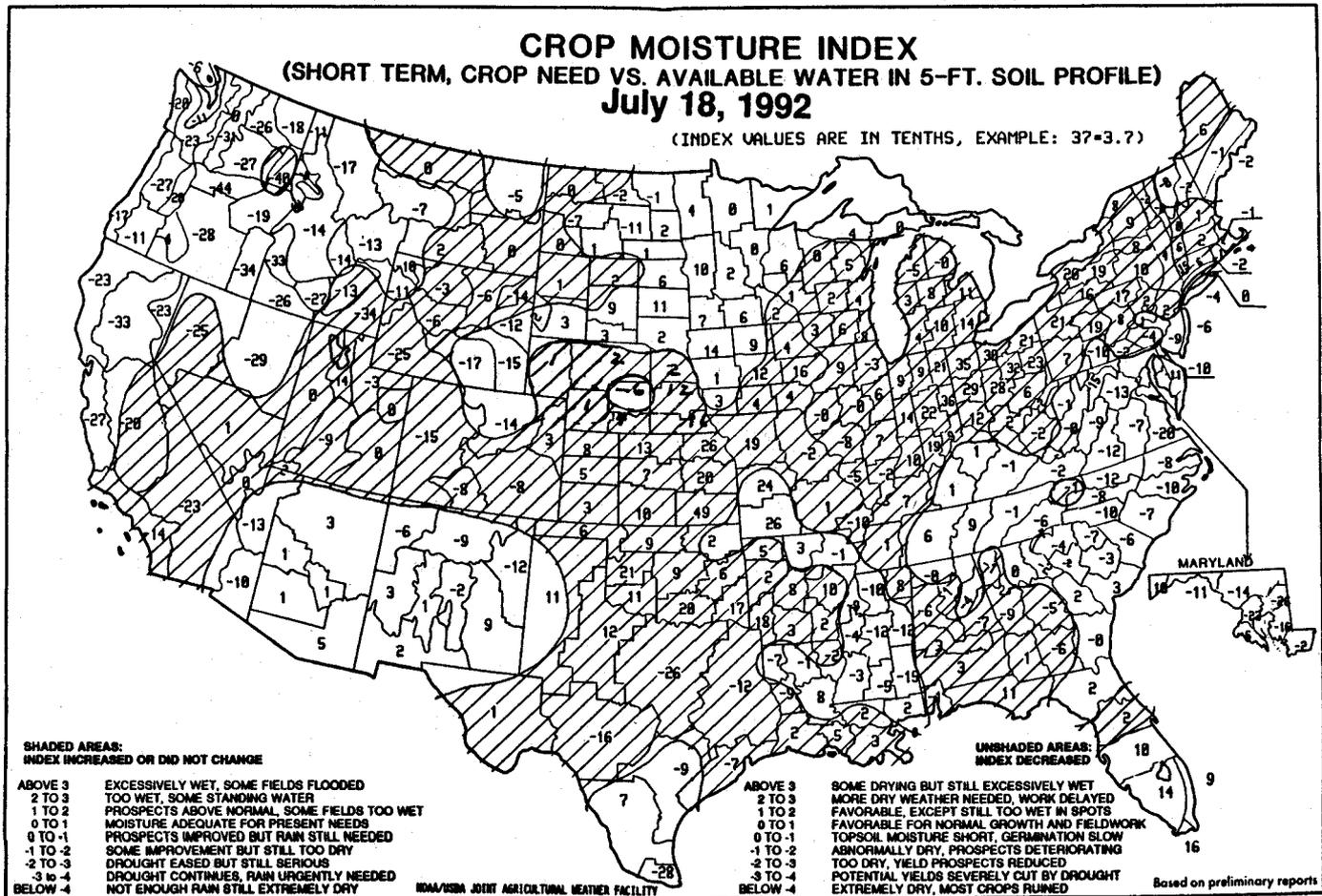
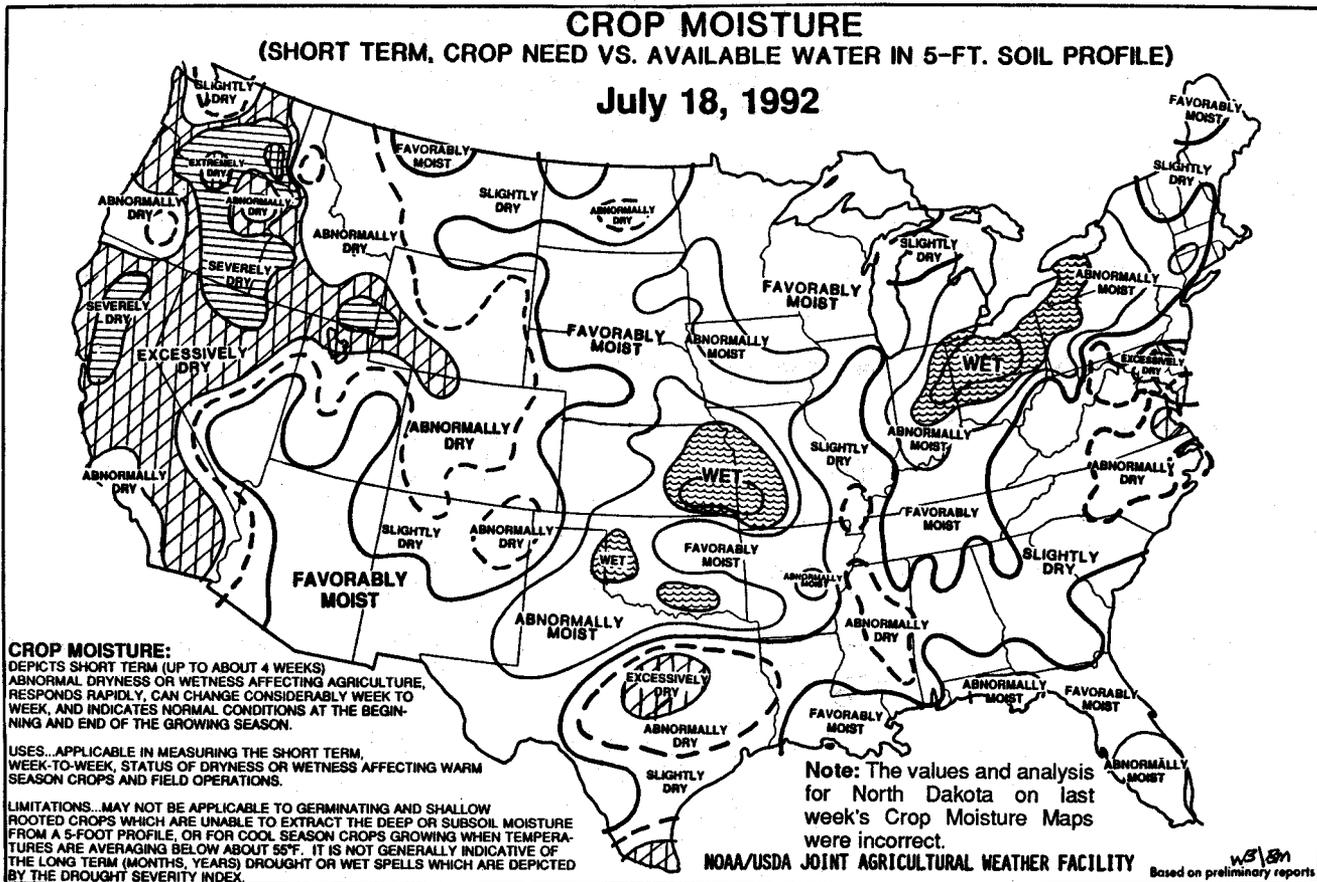
Thunderstorms remained active along a nearly stationary front from the **central Plains** to the **Northeast**. The rainfall generally benefited crops, except in the **eastern Corn Belt**, where excessive rainfall and river flooding occurred. North of the front, cool, mainly dry weather prevailed, while in the **Southeast**, hot, humid conditions were broken only by scattered afternoon thunderstorms. Early in the week, a line of storms stretched from the **Great Basin** to **New England**. More than 2 inches of rain fell from **Ohio** westward to **southern Iowa**, and southward to **Oklahoma**. On Monday, rainfall topped 5 inches in **Columbus, OH**, to establish a 24-hour record for that location. In the **Great Basin**, isolated cloudbursts caused mudslides and flash flooding. By Tuesday, **Norfolk, VA**, reached 101°F for the second time in 3 days, while recent and ongoing rains translated into river flooding

(Continued to back cover)

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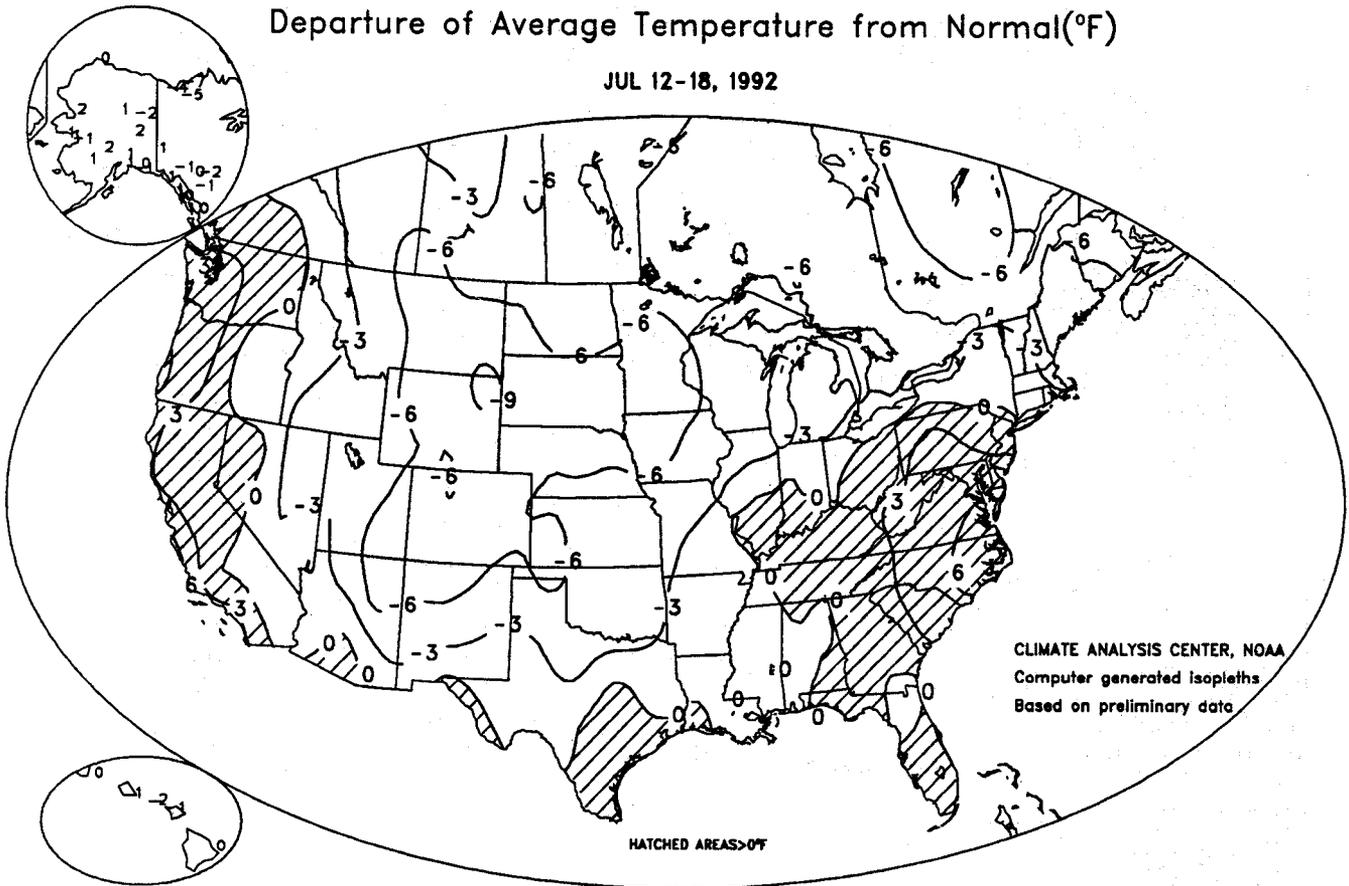
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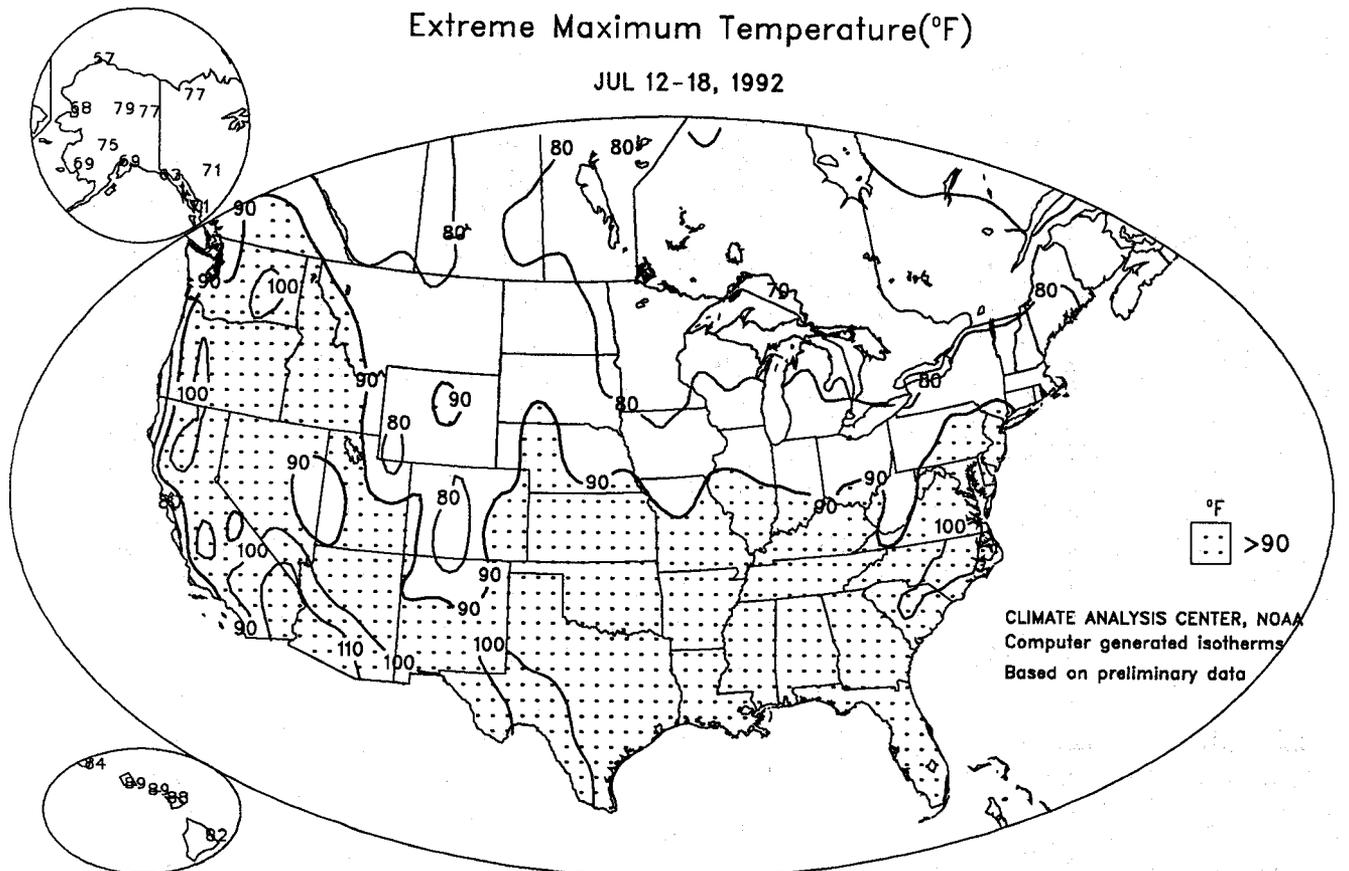
Departure of Average Temperature from Normal(°F)

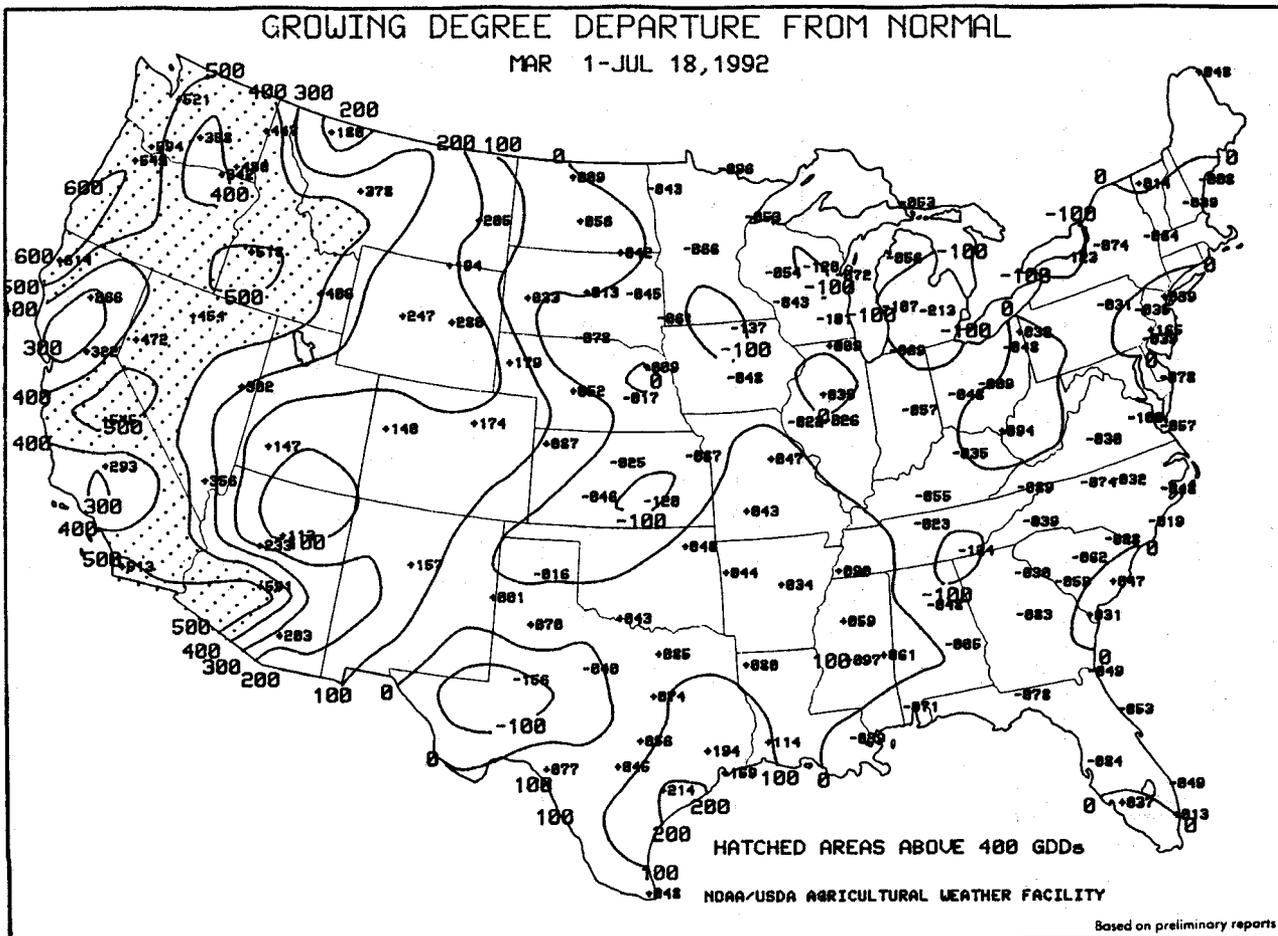
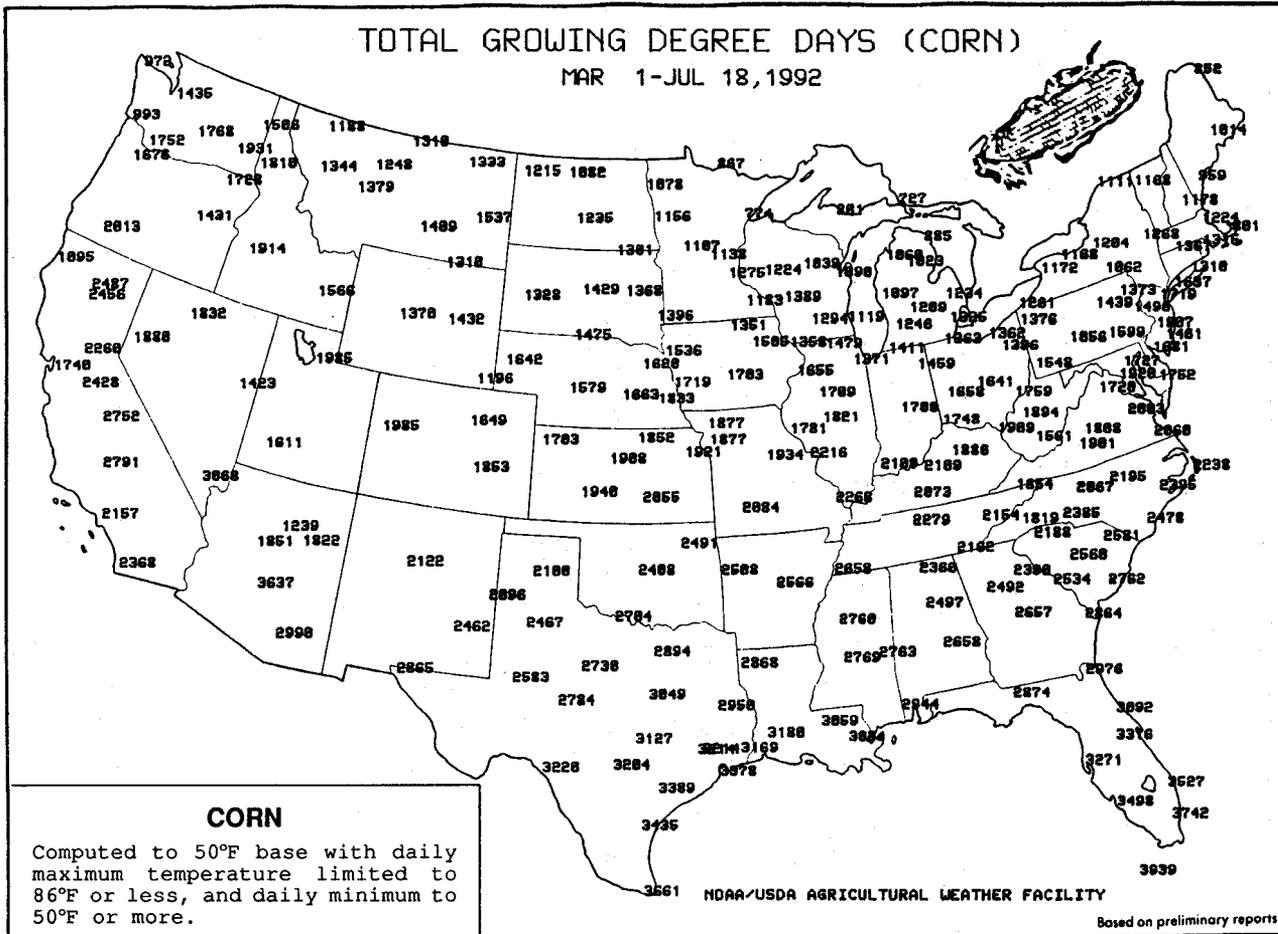
JUL 12-18, 1992



Extreme Maximum Temperature(°F)

JUL 12-18, 1992





National Weather Data for Selected Cities

Weather Data for the Week Ending July 18, 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 Jun 1	PCT. NORMAL SINCE Jun 1	AVERAGE	MAXIMUM	AVERAGE MINIMUM	TEMP. °F		PRECIP.	
																	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	90	71	95	68	81	0	.6	-.7	.2	9.4	139	24.3	74	94	58	3	0	6	0	
MOBILE	90	73	94	70	82	-1	1.9	.1	.9	9.9	104	36.9	101	98	56	3	0	6	2	
MONTGOMERY	90	70	98	70	80	-1	3.5	2.4	1.8	13.0	208	37.1	127	98	56	4	0	4	3	
AK ANCHORAGE	66	54	69	52	60	1	.1	-.4	.0	1.8	81	5.0	87	91	60	0	0	3	0	
BARROW	47	32	57	28	39	0	T	-.2	T	.2	27	.7	42	94	66	0	6	0	0	
FAIRBANKS	76	53	80	50	65	3	.4	.0	.1	3.8	164	7.1	156	92	45	0	0	5	0	
JUNEAU	59	50	68	48	55	-1	2.2	1.3	2.2	7.3	139	42.2	189	98	76	0	0	1	1	
KODIAK	61	50	68	48	56	1	.2	-.6	.1	7.0	115	33.4	112	96	72	0	0	2	0	
NOME	55	43	66	38	50	-1	.1	-.4	.1	1.0	43	3.3	62	91	59	0	0	1	0	
AZ PHOENIX	107	81	112	77	94	1	-.0	-.2	.0	1.2	217	7.7	257	45	17	7	0	0	0	
PRESCOTT	89	58	97	53	74	-2	-.0	-.7	.0	.4	22	7.9	145	60	19	4	0	0	0	
TUCSON	104	70	109	64	87	0	-.0	-.6	.0	.9	55	7.4	177	54	12	7	0	0	0	
YUMA	108	79	114	77	94	0	-.0	.0	.0	.0	0	3.2	336	--	--	7	0	0	0	
AR FORT SMITH	89	70	94	65	80	-3	1.5	.8	1.5	11.5	210	26.2	115	95	50	3	0	2	1	
LITTLE ROCK	89	71	95	67	80	-2	3.0	2.2	2.3	9.4	163	26.6	92	84	57	3	0	4	2	
CA BAKERSFIELD	96	72	105	70	84	0	.0	.0	.0	.1	100	5.7	148	69	31	6	0	0	0	
EUREKA	65	56	68	54	60	4	T	T	T	1.5	256	15.2	68	93	76	0	0	0	0	
FRESNO	97	71	103	68	84	2	.2	.2	.2	.2	400	9.2	132	74	31	6	0	1	0	
LOS ANGELES	78	67	81	66	73	3	1.3	.3	.3	.3	>1000	11.9	143	97	71	0	0	1	0	
REDDING	99	71	107	67	85	1	T	.0	T	1.7	178	20.2	82	73	27	6	0	0	0	
SACRAMENTO	92	61	97	59	77	1	-.0	.0	.0	.1	108	9.9	93	86	31	6	0	0	0	
SAN DIEGO	79	68	83	64	73	3	.0	.0	.0	.1	150	10.0	163	92	65	0	0	0	0	
SAN FRANCISCO	74	60	77	59	67	5	.0	.0	.0	.4	355	13.3	107	89	59	0	0	0	0	
CO DENVER	80	56	88	52	68	-6	1.6	1.1	1.0	4.0	151	10.5	112	88	35	0	0	3	1	
GRAND JUNCTION	87	59	94	56	73	-7	-.1	-.1	-.1	.7	105	4.9	123	69	21	2	0	1	0	
PUEBLO	87	53	96	49	70	-7	-.7	-.3	.5	3.9	179	6.2	107	85	28	2	0	4	1	
CT BRIDGEPORT	80	66	89	63	73	-1	.9	.1	.8	6.9	143	19.4	87	96	64	0	0	4	1	
HARTFORD	83	63	90	60	73	-1	1.6	1.0	1.0	8.4	166	23.6	101	98	55	1	0	4	1	
DC WASHINGTON	93	75	99	73	84	5	.2	-.7	.1	3.7	68	18.2	88	88	45	6	0	2	0	
FL APALACHICOLA	92	74	93	71	83	1	.4	-.2	.2	6.7	76	25.1	95	--	--	6	0	4	0	
DAYTONA BEACH	92	72	94	70	82	1	T	-.2	T	10.8	112	23.1	97	97	54	7	0	1	0	
JACKSONVILLE	94	73	98	71	84	1	1.0	-.4	.6	8.5	91	32.4	121	93	48	7	0	3	1	
KEY WEST	89	80	90	75	85	0	.4	-.4	.2	12.5	175	19.8	117	82	60	5	0	0	0	
MIAMI	90	79	92	76	85	2	.3	-1.0	.2	15.6	123	24.5	86	83	54	6	0	4	0	
ORLANDO	93	74	94	72	83	1	1.8	.0	1.6	10.6	90	28.4	107	98	50	7	0	0	0	
TALLAHASSEE	93	70	97	68	81	0	1.1	-.9	.4	16.3	139	38.7	107	99	51	6	0	6	0	
TAMPA	93	73	95	73	83	1	1.5	-.1	1.5	8.6	90	16.9	72	92	50	7	0	4	1	
WEST PALM BEACH	91	76	92	74	83	1	.1	-1.3	.1	16.2	140	28.0	96	89	55	6	0	2	0	
GA ATLANTA	89	71	96	68	80	1	1.8	-.7	1.2	9.9	160	24.0	80	96	53	3	0	5	2	
AUGUSTA	92	72	96	68	82	1	.6	-.4	.4	9.2	144	25.9	98	97	53	7	0	3	0	
MACON	91	72	96	70	82	0	3.4	2.3	1.7	10.2	161	27.4	99	96	51	5	0	4	2	
SAVANNAH	94	74	98	72	84	3	.8	-.9	.6	15.0	150	32.0	114	91	47	6	0	2	1	
HI HILO	82	69	83	66	76	0	3.2	1.3	.8	16.6	153	32.8	47	98	65	0	0	7	4	
HONOLULU	88	73	89	71	81	1	T	-.1	T	1.6	209	5.3	39	77	45	0	0	0	0	
KAHULUI	87	72	88	68	80	1	T	.0	T	.4	89	6.6	57	84	51	0	0	2	0	
LIBUE	84	73	85	71	78	0	.5	-.1	.2	2.0	74	13.6	58	85	61	0	0	5	0	
ID BOISE	90	56	96	51	73	-2	.0	-.1	.0	2.1	198	4.2	59	59	15	4	0	0	0	
LEWISTON	91	60	101	54	75	1	.0	-.1	.0	.8	45	4.9	64	55	16	4	0	0	0	
POCATELLO	85	50	91	47	68	-4	.3	-.2	.3	1.9	148	4.2	64	74	22	2	0	1	0	
IL CHICAGO	77	61	84	57	69	-4	1.9	1.1	.9	4.0	64	11.4	61	99	67	0	0	5	1	
MOLINE	80	62	89	58	71	-4	4.9	3.8	1.8	10.0	138	17.3	82	99	66	0	0	5	4	
FLORIA	82	65	90	59	73	-2	1.1	.2	.5	5.2	83	12.8	65	99	65	1	0	4	0	
QUINCY	82	65	90	61	73	-4	1.0	.0	.4	5.7	87	16.0	77	97	63	1	0	4	0	
ROCKFORD	78	61	83	58	70	-4	2.3	1.3	.9	4.4	61	12.9	63	95	63	0	0	5	3	
SPRINGFIELD	84	66	91	60	75	-2	.1	-.7	.1	4.8	85	13.1	67	97	61	1	0	3	0	
IN EVANSVILLE	89	72	94	70	81	2	1.8	.9	1.1	8.4	143	19.8	79	91	49	3	0	2	2	
FORT WAYNE	81	66	87	61	73	0	2.0	1.3	1.1	7.6	136	20.5	104	99	66	0	0	7	1	
INDIANAPOLIS	83	67	89	62	75	0	2.1	1.1	1.0	13.0	199	23.9	106	97	63	0	0	6	1	
SOUTH BEND	80	63	86	61	72	-1	2.3	1.5	.8	4.8	79	14.4	70	99	64	0	0	6	3	
IA DES MOINES	80	63	83	58	72	-5	3.1	2.4	2.2	5.3	88	15.9	91	96	58	0	0	3	2	
SIoux CITY	80	59	83	53	69	-7	.8	.1	.7	4.2	71	13.8	91	99	54	0	0	2	1	
WATERLOO	77	60	82	54	69	-5	1.9	.8	.6	6.1	86	16.2	86	97	59	0	0	4	3	
KS CONCORDIA	88	65	95	61	77	-3	2.5	1.7	1.3	13.8	222	23.5	148	96	46	2	0	3	2	
DODGE CITY	86	64	95	59	75	-6	.6	-.1	.5	7.9	166	13.4	108	93	46	2	0	4	0	
GOODLAND	84	59	91	57	71	-5	2.4	1.9	1.5	10.4	253	14.4	144	94	37	1	0	5	2	
TOPEKA	87	66	93	60	77	-2	2.0	1.1	1.5	6.9	91	19.2	101	97	51	3	0	4	1	
WICHITA	90	67	95	61	78	-3	2.7	1.8	2.4	11.4	184	20.9	130	96	43	4	0	3	1	
KY BOWLING GREEN	90	71	96	67	80	2	.7	-.3	.4	5.7	80	22.8	77	94	54	5	0	4	0	
LEXINGTON	85	69	89	65	77	1	2.1	1.0	1.5	11.6	162	28.6	105	93	56	0	0	2	2	
LOUISVILLE	88	71	94	66	80	2	1.1	.2	.5	5.8	97	21.5	84	92	50	3	0	5	0	
LA ALEXANDRIA	89	77	93	72	83	0	.0	-1.0	.0	5.5	85	31.0	99	--	--	4	0	0	0	
BATON ROUGE	93	73	97	70	83	1	1.1	-.6	.8	15.7	218	41.9	132	93	51	6	0	4	1	
LAKE CHARLES	92	75	93	73	83	1	1.6	.4	1.1	10.2	143	39.0	141	99	63	7	0	3	1	
NEW ORLEANS	90	73	93	70	82	0	3.1	1.6	.9	12.9	151	41.9	127	97	59	4	0	6	3	

Based on 1951-80 normals.

Weather Data for the Week Ending July 18, 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 Jun 1		PCT. NORMAL SINCE Jun 1	AVERAGE	MAXIMUM	MINIMUM	90 AND ABOVE	32 AND BELOW	TEMP. °F		PRECIP.
													.01 INCH OR MORE							.50 INCH OR MORE	.01 INCH OR MORE	.50 INCH OR MORE
SEBEVEPORT	93	73	95	72	83	0	.4	-1.5	.2	4.3	77	27.3	104	96	49	5	0	0	0	2	0	
ME CARIBOU	71	48	75	40	59	1.5	1.5	1.6	7.4	134	20.1	113	94	48	0	0	0	0	5	5	2	
PORTLAND	75	57	87	52	66	1.1	1.1	1.3	6.7	144	22.5	97	98	54	0	0	0	0	0	0	0	
MD BALTIMORE	92	72	98	68	82	.1	.1	1.1	4.2	72	17.3	77	90	51	5	0	0	0	1	3	0	
SALISBURY	91	73	96	71	82	.4	.4	1.4	5.5	92	19.7	84	96	56	5	0	0	0	0	1	0	
MA BOSTON	78	61	89	58	70	.6	.6	1.4	6.4	147	19.1	82	95	56	0	0	0	0	4	4	0	
CHATHAM	72	58	85	54	65	1.6	1.6	1.9	6.5	150	17.7	72	96	77	0	0	0	0	4	4	2	
MI ALPENA	73	52	79	45	63	.9	.9	1.8	4.8	98	13.4	88	100	63	0	0	0	0	4	4	1	
DETROIT	77	63	83	60	70	3.8	3.1	1.0	6.8	132	19.1	111	97	67	0	0	0	0	6	6	5	
FLINT	75	59	80	57	67	4.7	4.1	2.7	8.4	175	19.1	121	99	68	0	0	0	0	6	6	3	
GRAND RAPIDS	76	60	82	56	68	3.3	2.6	1.4	8.5	158	20.0	111	100	70	0	0	0	0	4	4	3	
HOUGHTON LAKE	75	56	81	47	66	1.8	1.1	.9	4.2	88	12.3	84	98	57	0	0	0	0	4	4	2	
LANSING	75	58	81	52	66	3.8	3.3	1.5	6.7	124	18.9	117	100	69	0	0	0	0	6	6	3	
MARQUETTE	71	51	78	46	61	.4	-.3	-.2	4.8	82	15.2	75	94	62	0	0	0	0	3	3	0	
MUSKOGON	74	58	79	54	66	1.8	1.3	1.0	3.6	95	12.3	76	99	66	0	0	0	0	4	4	1	
SAULT ST. MARIE	72	50	79	46	61	.5	-.1	.3	4.5	91	14.0	87	96	63	0	0	0	0	4	4	0	
MN ALEXANDRIA	73	55	77	52	64	.9	-.2	.6	6.6	114	14.0	102	95	53	0	0	0	0	4	4	1	
DULUTH	70	50	76	42	60	.3	-.6	.1	8.4	135	16.2	105	94	54	0	0	0	0	4	4	0	
INT'L FALLS	74	48	79	41	61	.4	-.4	.4	4.7	80	11.2	88	96	45	0	0	0	0	2	2	0	
MINNEAPOLIS	74	57	79	53	66	2.1	1.3	1.9	8.4	139	14.4	98	98	57	0	0	0	0	4	4	1	
ROCHESTER	74	56	79	51	65	1.3	.5	1.1	4.2	71	13.2	86	97	62	0	0	0	0	4	4	1	
MS GREENWOOD	91	72	95	70	82	1.0	.0	1.0	9.2	151	23.9	73	96	55	4	0	0	0	2	2	1	
JACKSON	92	72	97	70	82	1.5	.5	1.0	7.0	121	19.9	64	99	56	6	0	0	0	4	4	1	
MERIDIAN	92	71	97	69	82	1.6	.4	1.1	9.7	146	32.2	99	93	49	7	0	0	0	5	5	1	
MO CAPE GIRARDEAU	90	72	94	67	81	1.2	.4	.7	6.0	105	19.3	74	92	47	4	0	0	0	3	3	1	
COLUMBIA	85	65	90	61	75	.3	-.4	.2	6.1	112	15.8	75	97	57	3	0	0	0	2	2	0	
KANSAS CITY	85	66	90	62	75	2.8	1.9	1.3	12.4	175	25.4	126	99	59	1	0	0	0	6	6	2	
SAINT LOUIS	90	71	96	66	80	1	.8	-.1	4.3	74	14.7	73	87	44	2	0	0	0	3	3	1	
SPRINGFIELD	85	68	90	60	76	1.2	.4	1.0	11.9	174	21.7	96	92	56	1	0	0	0	2	2	1	
MT BILLINGS	80	54	90	51	67	.6	.6	.1	4.1	164	9.1	95	79	30	1	0	0	0	1	1	0	
GLASGOW	78	53	83	49	65	1.6	-.4	.4	4.3	121	6.0	88	88	35	0	0	0	0	1	1	0	
GREAT FALLS	79	48	88	42	63	1.7	-.2	.4	4.5	133	9.2	91	83	25	0	0	0	0	0	0	0	
HAVRE	76	50	82	45	63	.2	-.1	.2	2.8	95	4.1	54	92	36	0	0	0	0	1	1	0	
HELENA	82	50	92	45	66	.0	-.2	.0	3.2	122	5.4	74	72	20	1	0	0	0	0	0	0	
KALISPELL	79	46	89	40	63	.0	-.2	.0	5.5	202	10.7	117	92	32	0	0	0	0	0	0	0	
MILES CITY	80	55	89	51	68	.0	-.3	.0	4.8	130	9.0	97	86	31	0	0	0	0	0	0	0	
MISSOULA	83	48	93	43	65	.0	-.2	.0	3.4	146	7.5	94	83	23	1	0	0	0	0	0	0	
NE GRAND ISLAND	82	60	85	55	71	.3	-.3	.1	7.6	143	17.6	121	94	54	0	0	0	0	4	4	0	
LINCOLN	85	62	91	55	74	1.7	1.0	1.2	6.3	110	14.3	89	95	53	1	0	0	0	3	3	1	
NORFOLK	81	58	83	49	69	.2	-.5	.2	6.0	95	13.3	88	94	48	0	0	0	0	2	2	0	
NORTH PLATTE	83	56	91	50	70	.7	.0	.5	5.0	90	13.6	106	95	40	2	0	0	0	4	4	1	
OMAHA	80	63	86	59	71	3.8	3.0	2.4	7.8	126	19.1	112	94	62	0	0	0	0	3	3	3	
SCOTTSSBLUFF	81	54	89	49	68	.8	.3	.4	5.2	125	10.5	103	93	35	0	0	0	0	3	3	0	
VALENTINE	81	52	91	49	66	.9	-.5	.4	6.2	141	10.0	92	90	40	1	0	0	0	1	1	0	
NV ELY	81	46	87	43	63	.2	-.1	.2	2.2	192	5.4	99	79	24	0	0	0	0	2	2	0	
LAS VEGAS	102	74	110	69	88	-.3	.2	-.1	1	40	6.7	334	41	15	7	0	0	0	1	1	0	
RENO	90	59	95	54	74	.4	.2	-.1	1.3	276	2.7	59	75	22	5	0	0	0	2	2	0	
WINNEMUCCA	93	54	98	45	73	1	.0	.0	.5	51	1.9	41	58	15	6	0	0	0	4	4	0	
NE CONCORD	77	57	88	54	67	1.1	.4	.7	5.7	123	15.8	84	99	56	0	0	0	0	0	0	1	
NJ ATLANTIC CITY	89	69	97	65	79	.4	.5	.4	5.3	107	15.3	69	91	54	3	0	0	0	3	3	0	
NM ALBUQUERQUE	88	59	93	55	74	.4	.5	.4	1.7	139	5.1	154	70	22	2	0	0	0	1	1	0	
CLOVIS	90	62	97	56	76	.3	-.4	.2	3.8	89	13.1	151	82	25	4	0	0	0	2	2	0	
ROSWELL	94	65	101	62	80	.2	-.2	.1	3.0	153	10.1	237	77	25	6	0	0	0	3	3	0	
NY ALBANY	79	61	84	54	70	1.4	.8	.7	4.5	90	15.7	83	99	65	0	0	0	0	6	6	1	
BINGHAMTON	76	61	86	58	69	2.5	1.8	.8	5.3	95	22.1	112	97	66	0	0	0	0	6	6	3	
BUFFALO	85	69	97	65	77	4.1	3.4	1.2	8.6	199	24.1	129	96	67	0	0	0	0	5	5	4	
NEW YORK	77	60	82	52	69	1.0	.2	1.8	6.2	120	17.5	77	91	53	2	0	0	0	4	4	1	
ROCHESTER	78	61	83	55	70	2.9	2.4	1.0	6.3	149	19.4	117	98	67	0	0	0	0	5	5	3	
SYRACUSE	87	65	92	63	76	3.2	2.3	.9	7.4	129	25.1	122	97	64	0	0	0	0	6	6	4	
NC ASHEVILLE	83	74	97	71	84	.1	-.8	.4	7.0	119	27.4	111	95	47	3	0	0	0	1	1	0	
CHARLOTTE	92	72	97	69	82	.2	-.7	.1	6.9	118	25.5	101	84	42	5	0	0	0	0	0	0	
GREENSBORO	88	78	89	78	83	.5	-.5	.5	4.3	68	21.8	92	87	43	5	0	0	0	2	2	0	
HATTERAS	96	77	100	73	87	.5	-.1	.3	2.1	29	23.4	85	94	69	0	0	0	0	0	0	0	
NEW BERN	92	74	96	72	83	.6	-.4	.6	5.6	62	22.8	81	89	45	7	0	0	0	2	2	0	
RALEIGH	94	77	97	75	86	.6	-.4	.6	7.4	121	20.9	89	87	48	4	0	0	0	1	1	1	
WILMINGTON	77	56	88	48	67	1.7	1.7	.7	8.9	89	34.4	121	87	50	7	0	0	0	0	0	0	
ND BISMARCK	75	56	78	52	66	.3	-.2	.1	5.5	130	8.2	85	95	45	0	0	0	0	3	3	0	
FARGO	76	55	79	51	66	.5	-.3	.3	7.2	143	12.9	118	94	53	0	0	0	0	5	5	0	
GRAND FORKS	78	53	86	48	66	.2	-.4	.1	4.8	105	10.9	109	94	46	0	0	0	0	3	3	0	
WILLISTON	82	65	87	60	73	1	-.1	-.3	2.8	73	7.6	90	94	37	0	0	0	0	2	2	0	
OH AKRON-CANTON	84	65	89	60	73	1	1.2	.2	4.5	1.5	8.2	146	22.7	111	100	65	0	0	0	7	7	4
CINCINNATI	84	65	89	60	73	1	1.2	.2	4.5	1.5	8.2	146	22.7	111	100	65	0	0	0	7	7	4
CLEVELAND	80	65	88	60	73	0	4.7	3.9	1.8	8.0	148	23.8	121	98	66	0	0	0	6	6	0	
COLUMBUS	85	66	89	63	75	1	9.6	8.7	4.7	12.6	199	24.9	115	98	63	0	0	0	7	7	2	

Based on 1951

Weather Data for the Week Ending July 18, 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	.01 INCH OR MORE		.50 INCH OR MORE	
																			MAXIMUM	MINIMUM	OR MORE	OR MORE
DAYTON	85	66	91	61	76	1	2.9	2.2	.7	7.2	126	22.9	111	97	56	2	0	6	4			
TOLEDO	78	64	86	61	71	-1	3.0	2.3	1.9	5.3	99	18.3	103	100	68	0	0	6	2			
YOUNGSTOWN	81	65	89	62	73	3	3.8	2.9	1.7	5.3	90	18.7	90	100	65	0	0	7	2			
OK OKLAHOMA CITY	88	69	93	63	78	-4	2.8	2.1	1.3	9.2	165	21.2	116	93	51	3	0	3	3			
TULSA	90	70	94	64	80	-3	1.5	.7	1.0	10.5	157	24.1	108	90	48	4	0	3	1			
OR ASTORIA	70	53	81	46	62	1	T	-2	T	.8	24	25.0	68	94	60	0	0	1	0			
BURNS	87	49	93	43	68	-2	.0	-1	.0	3.1	435	5.4	96	64	16	2	0	0	0			
MEDFORD	95	59	103	55	77	4	.1	.0	.0	3.2	405	7.4	72	84	28	6	0	2	0			
PENDLETON	90	60	100	54	75	1	T	-1	T	1.1	129	4.0	60	54	17	3	0	0	0			
PORTLAND	88	60	100	56	74	6	.0	-1	.0	.8	48	15.0	76	84	33	0	0	0	0			
SALEM	89	57	99	51	73	6	.0	-1	.0	1.6	117	16.1	75	82	30	3	0	0	0			
PA ALLENTOWN	83	67	93	65	75	1	1.5	.6	.6	7.2	125	19.5	83	94	61	1	0	5	1			
ERIE	78	65	84	61	71	1	3.1	2.4	1.1	6.4	110	18.9	95	97	70	0	0	6	2			
HARRISBURG	87	70	95	66	79	3	1.8	1.0	1.8	4.0	72	15.8	73	81	54	1	0	1	1			
PHILADELPHIA	89	72	97	68	81	4	4	-5	.2	3.4	56	12.8	57	87	54	3	0	4	0			
PITTSBURGH	83	66	89	60	75	2	2.2	1.3	1.0	5.0	87	17.0	79	96	59	0	0	7	0			
SCRANTON	83	65	91	62	74	2	1.2	.5	.6	3.5	65	14.7	79	92	57	1	0	4	1			
RI PROVIDENCE	81	63	89	59	72	-1	2.0	1.4	.8	7.4	168	22.1	92	99	55	6	0	5	2			
SC CHARLESTON	92	77	95	74	85	4	.3	-1.4	.3	8.8	81	27.5	95	92	52	6	0	1	0			
COLUMBIA	96	73	102	69	85	4	.3	-1.0	.2	6.8	90	22.6	79	91	39	7	0	2	0			
FLORENCE	96	75	100	70	85	2	.3	-1.3	.1	4.2	53	16.7	66	90	43	7	0	1	0			
GREENVILLE	92	70	98	66	81	2	1.2	.2	.7	6.2	88	30.1	100	94	41	3	0	3	1			
SD ABERDEEN	76	56	81	49	66	-7	.6	-1	.3	7.9	169	10.7	95	96	54	0	0	6	0			
HURON	77	56	81	51	66	4	.6	-1	.3	8.4	180	13.5	115	95	53	0	0	2	0			
RAPID CITY	78	53	89	49	65	-8	.8	-4	.8	4.3	95	9.9	88	90	37	0	0	2	1			
SIOUX FALLS	76	56	81	53	66	-8	1.0	.4	.9	8.6	164	17.3	125	96	56	0	0	1	0			
TN CHATTANOOGA	88	70	94	67	79	0	.6	-5	.3	10.2	170	28.2	91	99	55	2	0	4	0			
KNOXVILLE	88	71	93	68	79	2	.6	-4	.4	6.5	99	23.0	81	95	52	3	0	2	0			
MEMPHIS	90	73	95	69	82	-1	2.3	1.4	1.3	10.1	172	26.3	84	93	55	4	0	3	2			
NASHVILLE	88	71	94	65	80	0	.5	-4	.2	9.9	168	23.8	82	91	53	3	0	3	0			
TX ABILENE	91	70	98	68	81	-3	1.0	.5	.7	6.2	168	18.0	145	87	44	4	0	4	1			
AMARILLO	86	62	91	58	74	-5	T	-6	T	9.7	193	16.3	151	91	39	2	0	2	0			
AUSTIN	94	75	96	70	85	0	.1	-3	.1	5.0	122	32.8	190	93	43	7	0	1	0			
BEAUMONT	92	75	93	73	84	1	1.1	-2	.7	11.9	144	40.4	140	97	61	7	0	3	1			
BROWNSVILLE	94	77	95	75	86	2	T	-3	T	1.6	46	16.9	161	91	48	7	0	1	0			
CORPUS CHRISTI	92	76	93	75	84	0	.0	-5	.0	1.8	35	26.7	185	95	55	7	0	0	0			
DEL RIO	97	76	103	74	86	0	T	-4	T	1.8	67	15.5	180	62	30	6	0	0	0			
EL PASO	98	70	101	65	84	1	.1	-3	.1	.4	30	6.8	226	52	16	7	0	1	0			
FORT WORTH	92	75	98	71	84	-2	T	-5	T	5.3	148	23.6	131	88	50	5	0	1	0			
GALVESTON	90	80	93	74	85	2	.3	-5	.2	3.0	52	31.9	166	84	63	5	0	2	0			
HOUSTON	93	75	96	71	84	0	1.0	.2	.6	4.5	69	35.3	143	96	52	7	0	4	1			
LUBBOCK	91	67	97	61	79	-1	.3	-2	.2	5.6	135	16.8	174	88	34	4	0	5	0			
MIDLAND	93	69	101	64	81	0	.6	-2	.6	2.8	115	16.2	240	83	32	4	0	3	1			
SAN ANGELO	96	71	101	67	83	-1	.1	-2	.0	6.0	237	15.2	168	84	33	6	0	3	0			
SAN ANTONIO	95	75	96	71	85	0	T	-4	T	5.7	139	35.0	230	88	39	7	0	1	0			
VICTORIA	95	77	96	75	86	2	.0	-6	.0	1.8	30	37.2	199	94	44	7	0	0	0			
WACO	99	76	100	73	87	1	.3	-1	.2	2.9	82	24.9	140	87	39	7	0	2	0			
WICHITA FALLS	92	71	98	65	82	-4	1.1	.7	1.1	9.5	239	18.3	121	86	47	4	0	1	1			
UT CRDAR CITY	86	54	91	51	70	-5	.2	.0	.2	.6	54	5.4	101	78	25	2	0	2	0			
SALT LAKE CITY	88	61	95	56	75	-3	.2	.0	.2	.7	53	6.7	71	62	20	3	0	1	0			
VT BURLINGTON	77	59	83	51	68	-2	.9	-1	.3	4.8	87	15.2	89	99	56	0	0	5	0			
VA NORFOLK	97	78	101	73	88	9	.2	-1.0	.2	2.9	45	16.8	71	83	38	7	0	1	0			
RICHMOND	94	72	98	69	83	5	.9	-3	.6	6.0	93	23.7	103	96	49	6	0	3	1			
ROANOKE	91	69	94	65	80	4	.3	-5	.3	7.4	141	27.2	126	86	40	5	0	2	0			
WA QUILLAYUTE	73	51	83	44	62	3	T	-6	T	1.9	45	50.2	91	96	52	0	0	1	0			
SEATTLE-TACOMA	81	58	89	53	69	4	T	-2	T	2.0	114	18.9	97	85	42	0	0	0	0			
SPOKANE	86	54	99	48	70	0	.0	-1	.0	2.3	157	7.6	81	66	19	2	0	0	0			
YAKIMA	91	53	99	46	72	1	.0	.0	.0	1.3	209	3.4	78	80	23	3	0	0	0			
WV BRCKLEY	82	67	86	62	74	5	.5	-6	.2	5.5	82	21.7	89	91	53	0	0	4	0			
CHARLESTON	89	69	93	62	79	5	1.8	.6	.9	5.6	88	22.7	94	91	51	3	0	4	1			
HUNTINGTON	87	69	92	64	78	2	1.6	.5	1.3	5.8	94	21.4	90	91	53	2	0	3	1			
PARKERSBURG	86	67	89	63	77	2	3.1	2.2	2.2	7.5	121	20.5	92	95	58	0	0	7	2			
WI GREEN BAY	74	55	81	49	65	-5	2.7	2.0	1.5	5.4	107	13.7	91	99	66	0	0	5	2			
LACROSSE	77	60	83	56	69	-5	1.8	.9	1.0	5.2	82	15.3	91	93	50	0	0	3	2			
MADISON	76	56	83	48	66	-5	2.0	1.2	1.2	6.5	108	14.8	88	85	55	0	0	3	2			
MILWAUKEE	74	60	84	54	67	-4	3.5	2.7	1.6	8.1	143	16.4	95	96	65	0	0	5	3			
WAUSAU	74	55	79	49	65	-5	1.1	.2	1.0	3.2	52	14.0	84	96	57	0	0	3	1			
WY CASPER	79	52	90	48	65	-6	.4	.2	.4	1.8	99	5.7	77	80	28	1	0	2	0			
CHEYENNE	75	51	85	47	63	-6	.3	-2	.1	3.0	96	7.4	86	83	33	0	0	4	0			
LANDER	78	51	90	46	65	-7	.3	.1	.3	2.7	147	8.8	98	75	29	1	0	1	0			
SHERIDAN	77	50	87	42	63	-7	1.0	.8	.9	5.7	201	10.3	104	84	38	0	0	2	1			

Based on 1951-80 normals.

National Agricultural Summary

July 13 - 19, 1992

HIGHLIGHTS: Rains across most of the eastern half of the Nation benefited immature crops, but delayed ongoing harvests. Hot, dry weather further depleted short moisture supplies in the Carolinas, hurting crop prospects.

SMALL GRAINS: Rainfall across the eastern half of the Nation retarded progress of winter wheat harvest, and some hail damage occurred in the central and southern Great Plains. Harvest was 72 percent (%) complete in the 19 major producing States, 10 percentage points behind last year and 11 points behind the 5-year average. Harvest was virtually complete from Kansas southward, and in full swing from the central Rocky Mountains to the western Ohio Valley. Harvest was in the early stages in the Pacific Northwest, and had yet to begin in Michigan and Montana. Continued below-normal temperatures in the northern Rocky Mountains and Great Plains kept progress of spring wheat heading slightly behind normal. Spring wheat was 92% headed in the five major States, compared with 97% last year and 97% average. Rains improved spring wheat condition east of Idaho, and the crop was in mostly good condition. Barley, oats, and rye harvests were ending along the central Atlantic Coast, in full swing in the Midwest, and gaining momentum in the Rocky Mountains and Pacific Northwest.

CORN: Hampered by continued below-normal temperatures in the Corn Belt, progress of corn silking remained well behind normal. Thirty percent of the corn had silked in the 17 major producing States, 34 points behind last year and 19 points behind the average. Crop condition continued to improve with additional rains across the eastern half of the country, while hot, dry weather in the Southeast lowered crop condition.

SOYBEANS: Soybean bloom remained somewhat delayed, with 46% of the acreage blooming in the 19 major States, 10 points behind last year and 7 points behind the average. Pods were setting on 8% of the acreage, 15 points behind last year and 9 points behind the average. Rains in the middle and lower Mississippi Valley improved crop condition, pushing the average ratings for the 19 major producing States upward. Double-crop soybean planting remained active in Missouri and Arkansas.

COTTON: Progress of the cotton crop remained behind schedule due to late development in the southern Plains and Southeast. Squaring was evident on 74% of the acreage, compared with 81% last year and 84% average. Bolls were setting on 37% of the acreage, 4 points behind last year and 5 points behind the average. Crop condition ratings remained mostly fair to good.

GRAIN SORGHUM: Grain sorghum heading was 28% complete in the 12 major producing States, 7 points behind last year and 1 point behind

the 5-year average. Crop progress remained advanced in the Delta, but was behind schedule in the middle Mississippi Valley. Grain sorghum harvest was in full swing in southern and central Texas, as many fields matured rapidly due to hot, dry conditions. Crop condition in the major States improved sharply following the rains, averaging mostly good for the major producing States.

RICE: Rice heading advanced to 30% complete in the five major States, 1 point ahead of last year and 5 points ahead of the average. Heading progress remained ahead of normal in the Delta, but well behind in Texas. Crop condition rated mostly good in all of the major States. Rice sheath blight reached treatment levels in several Arkansas fields.

OTHER FIELD CROPS: Much cut hay was damaged by rains across the East, and cutting was slowed. Cutting of corn for silage was underway in California and the Delta. Summer potato harvest remained active in California and the South, while fall potato digging got underway in the Pacific Northwest. Safflower was drying as harvest neared in California. Sweetpotato harvest began in California and the Delta. Dry pea, lentil, and mint harvests were under way in Idaho.

FRUIT AND NUTS: Active fruit harvests in Arizona included Valencia oranges, grapefruit, and grapes. Peach harvest was active nationwide. Several stonefruits and Valencia oranges were being harvested in California. Valencia harvest was virtually over in Florida. Sweet cherry harvest stopped early in New York due to cracking, and much of the crop was abandoned. Early apples were being picked in Oregon. Utah's tart cherry harvest progressed.

VEGETABLES: Summer vegetable harvests were active in States along the east coast, west coast, and the gulf, with progress most advanced in the southern regions. Widespread disease and poor prices were hurting watermelon producers in Georgia, and melon harvest was winding down in Texas. Sweet corn harvest continued in Washington. California's processing tomato harvest moved northward into the Sacramento Valley.

PASTURES AND LIVESTOCK: Scattered rains across much of the east benefited forage condition. Forage and stock water supplies remained generally adequate in the Nation's heartland, while dry weather continued to hurt pasture and range conditions in the northwestern part of the country. Stifling heat and high humidity were stressing poultry in the Southeast.

Crop Progress

for the Week Ending July 19, 1992

COTTON (Percent Squaring)

	Current	Last Wk	1991	Avg.
AL	95	90	93	96
AZ	99	98	99	99
AR	100	98	100	99
CA	100	90	95	95
GA	96	89	98	99
LA	99	98	93	93
MS	98	96	89	94
MO	94	88	94	97
NM	81	70	90	93
NC	72	49	95	84
OK	52	30	59	57
SC	93	83	97	86
TN	95	80	82	91
TX	52	38	68	75
14 States	74	64	81	84

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

COTTON (Percent Setting Bolls)

	Current	Last Wk	1991	Avg.
AL	50	24	47	60
AZ	86	68	74	85
AR	55	31	57	63
CA	45	20	35	45
GA	43	28	69	77
LA	85	60	53	60
MS	69	42	52	67
MO	30	13	51	61
NM	34	22	42	38
NC	33	12	60	57
OK	2	0	11	15
SC	22	6	73	50
TN	32	13	28	40
TX	20	15	32	24
14 States	37	23	41	42

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

SPRING WHEAT (Percent Headed)

	Current	Last Wk	1991	Avg.
ID	99	89	80	92
MN	95	90	99	99
MT	83	70	94	94
ND	92	81	98	98
SD	100	100	100	100
5 States	92	83	97	97

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

CORN (Percent Silking)

	Current	Last Wk	1991	Avg.
CO	4	2	6	7
GA	98	95	99	99
IL	61	18	96	74
IN	30	6	79	54
IA	18	0	53	48
KS	55	30	80	60
KY	64	40	74	62
MI	3	0	55	30
MN	5	1	21	19
MO	59	30	77	64
NE	27	4	69	52
NC	86	71	94	85
OH	20	10	84	55
PA	2	0	34	15
SD	6	0	39	25
TX	77	70	89	83
WI	3	0	47	26
17 States	30	11	64	49

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

GRAIN SORGHUM (Percent Headed)

	Current	Last Wk	1991	Avg.
AR	68	51	45	43
CO	1	0	8	2
IL	19	7	38	28
KS	4	1	15	5
LA	87	70	61	63
MS	80	69	48	56
MO	30	11	29	30
NE	0	0	16	9
NM	4	1	0	NA
OK	11	3	8	20
SD	3	0	6	6
TX	65	61	72	65
12 States	27	23	34	NA
Excl. States with NA	28	23	35	29

NA - not available.

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

RICE (Percent Headed)

	Current	Last Wk	1991	Avg.
AR	15	5	13	6
CA	0	0	0	0
LA	70	60	60	51
MS	26	19	23	24
TX	52	33	72	73
5 States	30	20	29	24

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

SOYBEANS (Percent Blooming)

	Current	Last Wk	1991	Avg.
AL	27	15	17	26
AR	23	15	20	15
GA	27	26	44	43
IL	65	37	88	72
IN	59	28	76	59
IA	65	30	55	66
KS	25	15	50	35
KY	27	12	43	34
LA	48	29	11	26
MI	25	12	45	30
MN	42	17	53	61
MS	32	15	18	25
MO	31	22	41	45
NE	32	9	57	54
NC	15	13	20	15
OH	55	30	91	76
SC	12	4	19	12
SD	33	23	64	51
TN	20	12	12	19
19 States	46	24	56	53

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

SOYBEANS (Percent Setting Pods)

	Current	Last Wk	1991	Avg.
AL	6	NA	4	10
AR	6	NA	0	1
GA	6	NA	14	14
IL	13	NA	55	31
IN	4	NA	31	18
IA	20	NA	24	25
KS	4	NA	15	10
KY	6	NA	11	8
LA	19	NA	1	7
MI	0	NA	5	4
MN	5	NA	7	16
MS	10	NA	8	10
MO	6	NA	12	14
NE	0	NA	9	9
NC	0	NA	4	0
OH	5	NA	48	24
SC	3	NA	3	3
SD	0	NA	10	5
TN	4	NA	2	4
19 States	8	NA	23	17

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	95	90	90	93
CO	72	55	72	63
GA	100	100	100	100
ID	8	3	0	3
IL	79	66	100	99
IN	43	32	99	92
KS	97	95	100	99
MI	0	0	85	50
MO	84	74	100	99
MT	0	0	1	13
NE	49	28	87	86
NC	98	91	100	98
OH	10	7	100	89
OK	98	92	100	100
OR	22	8	9	8
SD	12	6	68	56
TX	99	91	98	99
WA	20	14	1	6
19 States	72	65	82	81

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

Crop Condition (Percent)

for the Week Ending July 19, 1992

CORN

State	VP	P	F	G	EX
CO	1	7	27	53	12
GA	0	0	11	79	10
IL	0	1	15	75	9
IN	0	1	15	70	14
IA	0	1	15	62	22
KS	6	0	14	52	28
KY	0	1	9	63	27
MI	2	8	25	50	15
MN	2	11	36	49	2
MO	0	6	31	50	13
NE	0	3	17	52	28
NC	0	8	53	39	0
OH	1	5	23	52	19
PA	1	4	17	46	32
SD	1	1	24	53	21
TX	0	3	14	61	22
WI	4	6	35	47	8
17 State	1	3	21	59	16
Prev Week	1	4	29	55	11
Prev Year	3	6	33	48	10

SOYBEANS

State	VP	P	F	G	EX
AL	0	0	11	76	13
AR	0	2	18	80	0
GA	0	0	22	78	0
IL	0	0	16	79	5
IN	0	1	18	68	13
IA	0	1	13	71	15
KS	0	5	17	57	21
KY	0	0	18	71	11
LA	0	0	61	39	0
MI	0	5	25	55	15
MN	2	9	49	39	1
MS	0	0	46	49	5
MO	0	7	30	57	6
NE	0	0	5	69	26
NC	0	3	46	49	2
OH	2	6	27	49	16
SC	0	1	48	51	0
SD	2	2	25	52	19
TN	0	0	20	74	6
19 State	0	3	24	63	10
Prev Week	1	2	33	57	7
Prev Year	1	8	39	47	5

COTTON

State	VP	P	F	G	EX
AL	0	0	9	47	44
AZ	0	0	14	57	29
AR	0	0	5	81	14
CA	0	0	5	75	20
GA	0	0	25	73	2
LA	0	0	25	65	10
MS	0	0	20	72	8
MO	0	0	56	44	0
NM	0	16	35	49	0
NC	0	5	64	29	2
OK	0	2	82	16	0
SC	0	8	77	15	0
TN	0	0	30	65	5
TX	6	27	53	12	2
14 State	3	13	38	39	7
Prev Week	5	11	37	42	5
Prev Year	2	2	42	49	5

GRAIN SORGHUM

State	VP	P	F	G	EX
AR	0	0	21	67	12
CO	1	2	19	64	14
IL	0	0	19	72	9
KS	0	6	14	53	27
LA	0	0	46	54	0
MS	0	0	46	49	5
MO	0	1	41	51	7
NE	0	1	10	62	27
NM	0	0	19	81	0
OK	0	1	9	80	10
SD	1	2	47	42	8
TX	0	2	19	65	14
12 State	0	3	19	60	18
Prev Week	0	4	25	59	12
Prev Year	2	9	36	47	6

SPRING WHEAT

State	VP	P	F	G	EX
ID	7	8	26	49	10
MN	1	2	21	65	11
MT	7	18	30	40	5
ND	0	2	24	60	14
SD	2	3	28	61	6
5 State	2	5	25	57	11
Prev Week	1	7	30	51	11
Prev Year	1	4	19	63	13

RICE

State	VP	P	F	G	EX
AR	0	0	24	76	0
CA	0	0	20	75	5
LA	0	0	38	53	9
MS	0	0	44	50	6
TX	0	0	9	67	24
5 State	0	0	26	68	6
Prev Week	0	0	28	69	3
Prev Year	1	1	39	53	6

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 0.50 to 2.00 in. north; mostly 1.00 to 2.00 in. in south. Temperatures 1 to 2° below normal; lows mid 60s; 70s near coast. Highs low 90s.

Days suitable for fieldwork 4.5. Soil moisture 16% short, 72% adequate, 12% surplus. Scattered rains benefited crops, pastures. Corn 95% silked, 91% 1991, 93% avg.; 50% dented, 54% 1991, 56% avg.; 16% mature, 19% 1991, 27% avg.; 2% harvested, 1% 1991, 2% avg.; 12% fair, 28% good, 60% excellent. Sorghum 18% fair, 75% good, 7% excellent. Peanuts 79% pegging, 85% 1991, 86% avg.; 86% good, 14% excellent. Pasture 9% poor, 20% fair, 49% good, 22% excellent. Livestock 10% fair, 71% good, 19% excellent. Primary activities: Harvesting hay, potatoes, fruits, vegetables; cultivating row crops; scouting fields for insects, diseases; applying herbicides to peanuts, cotton, fungicides applied to peanuts; general care of livestock, poultry, catfish.

ALASKA: Showers in differing amounts were general throughout the Railbelt. Highs 3° below normal to 4° above normal. Lows 1 to 6° above normal. Seasonal precipitation 2.16 in. wetter than normal at Fairbanks to 1.45 in. drier than normal at Kenai.

Days suitable for hay making 2.0. Topsoil 15% short, 83% adequate, 2% surplus. Subsoil 2% short, 98% adequate. Small grains: Oats, 100% headed or earlier, barley 95% headed, 5% early dough. Crop growth; 12% slow, 43% moderate, 45% rapid. First crop hay harvest 60% complete. Barley 50% fair, 50% good. Commercial potatoes beginning bloom, 20% poor, 9% fair, 57% good, 14% excellent.

ARIZONA: Drying, mostly sunny, hot. Temperatures 7° below normal to 1° above. Extremes 42°; 102° higher elevations, 56°; 119° deserts. Precipitation mountains, northeast, trace to 0.18; remainder of State, none. Year-to-date rainfall above normal to double normal for entire State.

Cotton squaring 99%, 99% 1991, 99% avg.; setting bolls 86%, 74% 1991, 85% avg.; 14% fair, 57% good, 29% excellent; weeds light to moderate; insects light to moderate. Alfalfa mostly good to excellent; insects light to moderate, weeds moderate to light statewide; harvest, generally active. Light or rain damage most sections. Small grains harvested, 100%, 100% 1991, 99% avg. New crop lemon harvest starting, west. Cantaloupes, watermelons, honeydews harvested west, central. Valencia oranges, grapefruit, grapes, mixed vegetables harvested, central. Cabbage harvested, east.

ARKANSAS: Temperatures below normal, scattered showers, thunderstorms middle of week. Extremes 58°; 99°. Rainfall 0.32 to 4.22 in.

Days suitable for fieldwork 6. Soil moisture 25% short, 62% adequate, 13% surplus.

Main farming activities: Planting soybeans, applying herbicide, fertilizer to rice, cultivating cotton, soybeans, pasture weed control, hay harvesting, working cattle, harvesting peaches. Rice sheath blight a problem in central, east central. Treatment levels were reached in several fields. Cotton was blooming across the State. An increase in bollworm eggs was spotted in southeast. Aphid pressure building in southeast. Soybeans planted 99%, 97% 1991, 97% avg.; emerged 96%, 93% 1991, 93% avg. Foliar disease reported in central. Corn 2% fair, 65% good, 33% excellent. Peach harvest continued across the State, nearing 90% harvested; fair to good. Watermelon harvest continuing in southwest, mostly good. Tomatoes good. Blueberries, grapes good. Blueberry harvest complete. High humidity, heat causing stress to poultry. Livestock good. Fly, tick populations increasing in west. Pastures in mostly good condition. Grasshoppers increasing in numbers in northwest. Hay harvesting continued.

CALIFORNIA: Weak high pressure created warmer than normal temperatures over most of the State. Moisture from hurricanes Darby, Estelle produced showers, thundershowers in mountain, desert areas. Temperatures cooled late in the week.

Field activities good progress, open weather. Small grain harvest winding down, most areas. Harvest followed by straw baling, stubble burning, discing. Second crop seedings silage corn, grain sorghum underway. Corn, cotton, dry beans, rice good growth; warm, humid conditions. Rice treated broadleaf weeds, water weevils. Cotton development excellent, squaring underway all growing areas. Irrigation, treatments aphids, lygus, mites, weeds. Sugarbeets dusted sulfur, mildew control. Safflower, seed alfalfa drying, preparation for harvest. Sunflowers heading out. Corn silage, garbanzo beans, sudangrass, sugarbeets harvested. Alfalfa hay harvest normal. Stonefruit harvest continued. Free-stone peach crop 70% picked. Sixty percent nectarines picked. Sixty percent plums picked. Prunes, pomegranates began color. Harvest Gala apples began. Olive set good. Date crop progressing well. Wine grapes mildew problem. Table grape harvest ongoing, raisin grapes progressing well. Almond orchards treated Navel Orange Worm, walnut orchards mites. Valencia orange harvest continued, forty percent picked. Strawberry harvest continued, very good demand, variable quality central coast. Broccoli fairly heavy, good quality Salinas-Watsonville, Santa Maria. Cauliflower moderate Salinas-Watsonville, light Santa Maria, variable quality. Carrot harvest continued Westside area. Celery fairly heavy, good quality Salinas-Watsonville; moderate, variable quality Santa Maria. Sweet corn harvest continued central, northern areas good quality. Iceberg lettuce shipments moderate,

variable quality Salinas-Watsonville, Santa Maria. Leaf, Romaine lettuce fairly heavy, variable quality Salinas-Watsonville. Cantaloupe, honeydew, watermelon, mixed melons continued from central valley. Melon harvest completed Palo Verde Valley. Spring onion digging continued central valley. Summer potato harvest active, planting winter crop underway Perris-Hemet district. Sweet potato harvest began Merced-Atwater area. Fresh market tomato picking continued central valley areas. Processing tomato harvest started Sacramento Valley, advanced other central valley areas, good quality. Other vegetables harvested: Beans, cucumbers, garlic for fresh market, processing, peppers, various oriental vegetables. Dry conditions persist. Reported poor to good. Cooler, humid, mountain areas holding their own. Foothills fire hazard high. Water supply variable, below normal mountains. Demand stockers, feeders good. Bees active melons, seed alfalfa.

COLORADO: Daily showers, thunderstorms, many heavy, in eastern plains with less rain in western valleys. Rainfall 1.50 in. near Kansas border to 0.50 in. remainder of the east, San Luis Valley. West of Divide precipitation 0.50 to 0.75 in. Temperatures 5 to 7° below normal with considerable cloudiness.

Days suitable for fieldwork 4.8. Soil moisture 1% very short, 26% short, 66% adequate, 6% surplus. Alfalfa 2nd cutting 25%, 17% 1991, 18% avg. Barley turning color 46%, 44% 1991, 55% avg.; 11% harvested. Oats turning color 57%, 50% 1991, 49% avg.; 18% harvested. Spring wheat headed 88%, 66% 1991, 83% avg.; turning color 9%. Sorghum headed 1%, 8% 1991, 2% avg.; with 78% good to excellent. Winter wheat harvested 72%, 72% 1991, 63% avg. High humidity, showers have slowed wheat harvest progress. Corn 1% very poor, 7% poor, 27% fair, 53% good, 12% excellent. Dry beans 1% very poor, 4% poor, 28% fair, 58% good, 9% excellent. Livestock good. Pasture, range, feed good to excellent.

FLORIDA: Temperatures; 1 or 2° below normal northwest, 1 or 2° above normal Peninsula. Lows; generally upper 60s to low 70s, mid and upper 70s along lower southeast coast. Highs; mostly mid 90s, except near 90° along southeast coast. Rainfall; 3.00 to 5.30 in. Panhandle, tapering to less than 0.50 in. southern tip. Showers, thunderstorms brought 1.00 to 2.00 in. throughout State.

Soil moisture adequate in Panhandle, southern Peninsula, short to adequate northern, central Peninsula with scattered areas of surplus moisture. Tobacco markets open. Tobacco harvest about 50% complete. Corn for grain harvest starting. Cotton, peanuts, soybeans, sugarcane making good progress. Citrus groves, trees excellent, moisture adequate, fertilization all areas. Abundant new growth, normal progress on new crop fruit. Oranges about golf ball size. Some grapefruit baseball size. Valencia harvest down to last few thousand boxes. Caretakers cutting cover crops, spraying, fertilizing, removing dead trees, limbs, burning trash. Limited volume summer vegetables. Fall crop land preparation

continues. State's pastures fair to excellent. Pasture 25% fair, 60% good, 15% excellent. State's cattle herds good to excellent.

GEORGIA: Temperatures near normal, 1° below to 1° above north, 2° below to 2° above south. Extreme minimums in lower 60s to near 70, few temperatures mountains, upper 50s. Extreme maximums near 90° mountains, to 100° at Jesup. Rain 3 to 5 days north, 2 to 5 days south. Rainfall 0.50 to 2.00 in. north, 1.00 to 2.00 in. south. Rainshowers more numerous north, amounts heavier south. Area around Atlanta received between 2.00 to 4.50 in.

Days suitable for fieldwork 5.5. Soil moisture 7% very short, 45% short, 44% adequate, 4% surplus. Corn 11% fair, 79% good, 10% excellent; 89% dough, 95% 1991, 93% avg.; 59% dent, 88% 1991, 80% avg.; 11% mature, 39% 1991, 30% avg.; dryland fields missed by scattered showers hurting. Cotton 25% fair, 73% good, 2% excellent; improved by scattered showers. Sorghum 1% poor, 20% fair, 79% good; 99% planted, 100% 1991, 98% avg. Peanuts 22% fair, 74% good, 4% excellent; 100% blooming, 99% 1991, 100% avg.; 87% pegging, 94% 1991, 92% avg.; irrigation active. Soybeans 22% fair, 78% good; showers helpful, some insect pressure. Tobacco 1% poor, 36% fair, 54% good, 9% excellent; 39% harvested, 57% 1991, 45% avg. Watermelons 8% very poor, 25% poor, 49% fair, 18% good; 79% harvested, 89% 1991, 88% avg.; disease widespread, prices poor. Other vegetables 25% poor, 40% fair, 35% good; planting fall crops. Apples 1% poor, 8% fair, 90% good, 1% excellent; 2% harvested, 10% 1991, 5% avg. Peaches 3% very poor, 2% poor, 16% fair, 79% good; 82% harvested, 94% 1991, 91% avg. Hay 1% poor, 24% fair, 71% good, 4% excellent. Pasture 4% poor, 18% fair, 73% good, 5% excellent. Cattle and hogs good. Activities: Cultivating, irrigating row crops, applying pesticides, cutting hay, pastures, harvesting tobacco.

HAWAII: Weather generally sunny with scattered showers, tradewinds, gusty at times, cooling warm summer temperatures. Showers fell mainly on windward areas, upper elevations. Temperatures high 60s to high 80s. Rainfall none to 5.10 in.

Days suitable for fieldwork 7.0. Banana production slightly below normal levels. Papaya output near normal levels. Sweet corn harvesting moderate to heavy. Sugarcane, pineapple harvesting on schedule. Irrigation remained necessary several areas.

IDAHO: Temperatures 5° below normal to 2° above normal across the State. Precipitation across State except for the southwest areas. Greatest amounts fell in the east where Rexburg received over an inch.

Days suitable for fieldwork 7. Soil moisture 15% very short, 46% short, 39% adequate. Winter wheat 5% very poor, 8% poor, 31% fair, 47% good, 9% excellent. Spring barley headed 99%, 78% 1991, 89% avg. Oat harvested 13%. Potatoes 99% over twelve inches, 80% closing middles. Potato good. First cutting alfalfa 99%, 98% 1991, 98% avg.; second cutting 31%, 18% 1991, 20% avg. Dry pea harvest 11% complete. Lentil harvest 5% complete. Cherries harvested 100%, 82% 1991, 97% avg. Mint 1st cutting 35%, 3% 1991, 8% avg. Peach harvest 6% complete.

Irrigation water supplies 22% very poor, 23% poor, 40% fair, 15% good. Activities: Cultivating, 2nd cutting alfalfa, irrigation, harvesting of small grains, dry peas, lentils. Pasture, range 63% of normal. Livestock good.

ILLINOIS: Stormy, with showers, thunderstorms scattered throughout State, until the weekend. Temperatures mid 60s to the upper 70s, while precipitation 1.00 in. or more in most parts of the State.

Days suitable for fieldwork 2.5. Soil moisture 23% short, 74% adequate, 3% surplus. Corn in dough stage 5%, 39% 1991, 18% avg. Soybeans setting pods 13%, 55% 1991, 31% avg. Alfalfa second cutting 64%, 87% 1991, 80% avg.; third cutting 3%, 21% 1991, 9% avg.; 55% good, 39% fair, 6% poor. Oats turning yellow 93%, 100% 1991, 96% avg.; ripe 58%, 98% 1991, 80% avg.; harvested 6%, 90% 1991, 54% avg.; 3% excellent, 51% good, 42% fair, 4% poor. Pasture 77% of normal.

INDIANA: Temperatures around normal, except 1 to 5° above normal southwest. Highs low to upper 80s lows, low 60s to around 70°. Precipitation 1.75 to 3.40 in. central, 0.75 to 2.00 northwest, far south.

Days suitable for fieldwork 1.5. Topsoil 3% short, 38% adequate, 59% surplus. Subsoil 17% short, 55% adequate, 59% surplus. Corn dough 2%, 23% 1991, 21% avg. Wheat ripe 95%, 100% 1991, 100% avg. Oats harvested 11%, 85% 1991, 53% avg. Rye harvested 24%, 98% 1991, 77% avg. Pasture 87%, 79% last week, 54% 1991. Corn, soybeans improved due to rain, warmer temperatures.

IOWA: Temperatures 4 to 7° below normal. Extremes 51°; 91°. Rainfall 0.06 in. Sioux City to 4.05 in. Williamsburg (east central); average 1.55 in.

Days suitable for fieldwork 1.3. Topsoil 2% short, 69% adequate 29% surplus. Subsoil 5% short, 83% adequate, 12% surplus. Winter wheat 12% very poor, 17% poor, 53% fair, 18% good. Hay 2% very poor, 8% poor, 53% fair, 35% good, 2% excellent. Oats 9% poor, 38% fair, 51% good, 2% excellent. Pasture 3% very poor, 14% poor, 44% fair, 34% good 5% excellent. Corn tasseling 40%, 74% 1991, 68% avg. Soybeans cultivated first time 96%, 93% 1991, 96% avg. Oats turning color 96%, 100% 1991, 99% avg. Winter wheat harvested 35%, 96% 1991, 84% avg. Second cutting alfalfa 38% harvested, 60% 1991, 63% avg. First cutting clover 99% harvested, 100% 1991, 99% avg. Livestock mostly good.

KANSAS: Temperatures 1 to 4° below normal over State; average 4° below normal southwest, 2° below normal northwest, 1° below normal central, east central districts. Remainder of State 3° below normal. Precipitation received all districts, 1.08 in. southwest to 5.24 in. southeast.

Days suitable for fieldwork 3.0. Surface moisture 4% short, 62% adequate, 34% surplus. Subsurface moisture 7% short, 86% adequate, 7% surplus. Wheat harvest nearing completion but was slowed by rain the past week. Cool, rainy weather of recent weeks is non typical for July weather. Sorghum, soybean planting virtually complete. Row crops mostly good to

excellent. Pasture very good. Pastures fair northwest, southwest, good to excellent elsewhere. Forage, stockwater adequate over State. Eighty percent alfalfa cut second time. About 5% cut third time.

KENTUCKY: Temperatures 78 to 80°. Highs 85 to 90°, lows 65 to 70°. Rainfall 1.50 in. west 2.30 in., Princeton highest 4.07 in.

Days suitable for fieldwork 4.7. Soil moisture 2% very short, 34% short, 58% adequate, 6% surplus. Sunny, humid weather with late week rains helped corn growth advance. Soybean set pods 6%, 11% 1991, 8% avg. Burley 41% bloomed, 45% 1991, 29% avg. Dark tobacco 51% bloomed. Pasture good to excellent.

LOUISIANA: Temperatures 1.1° below to 0.5° above normal. Extremes 67°; 97°. Rainfall 0.48 in. northwest to 3.41 in. south central.

Days suitable for fieldwork 4.8. Soil moisture 2% very short, 31% short, 55% adequate, 12% surplus. Corn 14% fair, 83% good, 3% excellent; 96% dough stage, 76% 1991, 86% avg.; 38% mature, 44% 1991, 28% avg. Cutting corn for silage underway. Hay 95% first cutting, 76% 1991, 89% avg.; 22% second cutting, 0% 1991, 0% avg. Peaches 86% harvested, 78% 1991, 75% avg. Rice 15% ripe, 14% 1991, 7% avg.; 4% harvested, 5% 1991, 2% avg. Sorghum 8% turning color, 25% 1991, 16% avg.; 0% ripe, 3% 1991, 1% avg. Soybeans 100% emerged, 95% 1991, 95% avg. Weed control active. Sugarcane 1% fair, 68% good, 31% excellent. Borer infestations increasing. Sweet potatoes 14% fair, 86% good; 100% planted, 98% 1991, 97% avg. Sweet potato harvesting underway. Livestock 25% fair, 63% good, 12% excellent. Pastures 1% fair, 98% good, 1% excellent. Vegetables 8% poor, 60% fair, 29% good, 3% excellent. Preparation of land for fall crops. Scouting for insects, weed control active in cotton.

MARYLAND & DELAWARE: MARYLAND: Precipitation 0.39 in. Temperature 82.2°, normal 75.9°. Extremes 57°; 100°.

Days suitable for fieldwork 5.8. Topsoil 17% very short, 48% short, 35% adequate. Subsoil 5% very short, 70% short, 25% adequate. Corn silking 30%, 65% 1991, 46% avg.; needs rain. Soybeans 94% planted, 99% 1991, 95% avg.; wheat harvest 83%, 99% 1991, 92% avg. Pastures very poor both sides of Bay, good to excellent elsewhere. Alfalfa second cutting 77%, other hay 43%. Vegetable harvest active, digging potatoes. Japanese beetle, grasshoppers light to moderate on many crops. Insects moderate on vegetables, tobacco. Rain needed.

DELAWARE: Precipitation 0.44 in. Temperature 81.8°, normal 76.6°. Extremes 67°; 97°.

Days suitable for fieldwork 6.9. Topsoil 72% short, 28% adequate. Subsoil 100% short. Soybeans 95% planted, 99% 1991, 94% avg.; 9% blooming, 20% 1991, 12% avg. Corn 33% silked, 74% 1991, 61% avg. Small grain harvest virtually complete. Potato, vegetable harvests underway, slightly ahead of normal. Alfalfa second cutting 90%, other hay 40%, both behind 1991, supplies adequate. Very dry, irrigating where available. A few peaches picked.

MICHIGAN: Temperatures 3 to 6° below normal. Extremes 45°; 86°. Precipitation 0.26 to 4.65 in. across State.

Days suitable for fieldwork 2.5. Soil moisture 10% short, 60% adequate, 30% surplus. Corn 41 inches high, 64 in. 1991, 54 in. avg. Hay 90% first cutting, 100% 1991, 99% avg.; 20% second cutting, 50% 1991, 30% avg.; 5% very poor, 15% poor, 30% fair, 40% good, 10% excellent. Oats 10% turning, 99% 1991, 70% avg.; 85% headed, 100% 1991, 100% avg.; 10% poor, 35% fair, 45% good, 10% excellent. Pasture 75% of normal. Major activities: Cultivating row crops, repairing, maintaining machinery, spraying weeds.

MINNESOTA: Temperatures 5 to 8° below normal. Extremes 49°; 78°. Precipitation 0.41 to 1.37 in. for State, 0.31 in. below to 0.45 in. above normal. Greatest weekly total was 1.99 in.

Days suitable for fieldwork 2.6. Topsoil 2% short, 61% adequate, 37% surplus. Spring wheat 26% turning ripe, 58% 1991, 60% avg.; 0% cut/swathed, 3% 1991, 8% avg. Oats 44% turning ripe, 77% 1991, 80% avg.; 1% cut/swathed, 32% 1991, 29% avg. Barley 26% turning ripe, 84% 1991, 80% avg.; 0% cut/swathed, 7% 1991, 14% avg. Corn 54 in. avg. height, 64 in. 1991, 62 in. avg.; 10% tasseling, 59% 1991, 53% avg. Soybeans 18 in. height, 20 in. 1991, 21 in. avg.; 42% blooming, 53% 1991, 61% avg.; 5% setting pods, 7% 1991, 16% avg. Rye 0% harvested, 16% 1991, 29% avg. Winter wheat 0% harvested, 18% 1991, 28% avg. Spring wheat 1% very poor, 2% poor, 21% fair, 65% good, 11% excellent. Oat 1% very poor, 2% poor, 23% fair, 65% good, 9% excellent. Barley 1% very poor, 1% poor, 19% fair, 66% good, 13% excellent. Soybean 2% very poor, 11% poor, 36% fair, 49% good, 2% excellent. Corn 2% very poor, 9% poor, 49% fair, 39% good, 1% excellent.

MISSISSIPPI: Temperature 80°, 1.0 below normal. Extremes 60°; 99°. Most of the State received near normal rainfall. Rainfall 1.74 in., 0.57 above normal. Soil temperatures 86°.

Days suitable for fieldwork 3.7, 6.0 1991, 4.9 avg. Soil moisture 22% short, 48% adequate, 22% surplus, 8% excessive. Corn 95% silking, 90% 1991, 91% avg.; dough 60%, 60% 1991, 60% avg.; dented 27%, 40% 1991, 37% avg.; mature 8%, 6% 1991, 7% avg.; silage harvested 15%, 40% 1991, 20% avg.; 13% fair, 77% good, 10% excellent. Cotton 98% squaring, 89% 1991, 94% avg.; 69% setting bolls, 52% 1991, 67% avg.; 20% fair, 72% good, 8% excellent. Rice 26% heading, 23% 1991, 24% avg.; 44% fair, 50% good, 6% excellent. Sorghum 80% heading, 48% 1991, 56% avg.; 11% color, 37% 1991, 18% avg.; 23% fair, 72% good, 5% excellent.; soybeans 98% planted, 98% 1991, 100% avg.; 95% emerged, 90% 1991, 88% avg.; 32% blooming, 18% 1991, 25% avg.; 10% podding, 8% 1991, 10% avg.; 46% fair, 49% good, 5% excellent. Watermelons 43% harvested, 55% 1991, 45% avg. Hay harvested 69%, 67% 1991, 56% avg. Peaches 74% harvested, 85% 1991, 83% avg.; 34% poor, 42% fair, 24% good. Pecans 7% very poor, 78% poor, 5% fair, 10% good. Livestock 7% fair, 86% good, 7% excellent. Pasture 92% of normal. Activities: Insect control, weed control in soybeans.

MISSOURI: Rainfall 1.87 in., 0.67 in. east central to 3.67 in. north central. Several northern counties 4.00 to 7.00 in., some

flooding occurred. Temperatures 2° below normal.

Days suitable for fieldwork 2.9, ranging less than 1 day northwest to over 5 days east central, south central, southeast. Topsoil 18% short, 71% adequate, 11% surplus. Subsoil 38% short, 60% adequate, 2% surplus. Corn silking varies less than 50% northwestern, north central, northeast to 100% southeast. Double crop soybean planting 87%, 100% 1991, 100% avg. Soybean podding behind year ago all districts except northeast. Sorghum heading earlier than normal at 54% southeast, behind normal elsewhere. Wheat harvest 66% or less northwestern, northeastern districts, nearing completion southern two thirds of state. Reporters concerned over possible deterioration from sprouting, weight loss of wheat kernels from wet weather. Oats harvested 52%, 92% 1991, 88% avg. Alfalfa second cutting 71%, 84% 1991, 85% avg. Other hay cut 86%, 91% 1991, 89% avg. Pasture 2% very poor, 15% poor, 46% fair, 29% good, 8% excellent.

MONTANA: Temperatures normal to below normal. Light scattered precipitation east of divide.

Days suitable for fieldwork 5.2. Topsoil 15% short, 82% adequate, 3% surplus. Subsoil 31% short, 66% adequate, 3% surplus. Winter Wheat 100% headed, 100% 1991, 100% avg.; 19% very poor, 21% poor, 29% fair, 27% good, 4% excellent. Barley 90% headed, 94% 1991, 94% avg. Oats 89% headed, 89% 1991, 93% avg. Pasture, range feed 75%, unchanged from last week. Alfalfa hay 82% harvested, 87% 1991, 84% avg.

NEBRASKA: Temperatures 1 to 4° below normal. Precipitation trace amounts in Valentine to 3.18 in. in Omaha. Wheat harvest slowed by showers. Some hail loss to wheat, row crop. Row crop development about 10 days behind normal.

Days suitable for fieldwork 3.9. Topsoil 13% short, 80% adequate, 7% surplus. Subsoil 14% short, 85% adequate, 1% surplus. Wheat 9% very poor, 18% poor, 50% fair, 23% good; 83% ripe, 80% 1991, 84% avg.; 28% harvested, 71% 1991, 65% avg. Corn 2% very poor, 1% poor, 19% fair, 69% good, 9% excellent; 4% silking, 38% 1991, 24% avg. Soybean 1% poor, 9% fair, 78% good, 12% excellent; 9% blooming, 33% 1991, 31% avg. Sorghum 2% poor, 13% fair, 71% good, 14% excellent. Alfalfa 1% poor, 26% fair, 65% good, 8% excellent; second cutting 44%, 39% 1991, 49% avg. Pasture, range 92% of normal.

NEVADA: Widespread thunderstorm activity early in week resulted in some localized flooding. Temperatures started below normal but warmed up later in week. Extremes 31°; 116°.

Alfalfa hay harvest slowed some areas by scattered afternoon, evening thundershowers. Ranges continue to deteriorate from lack of moisture, warm temperatures although some benefitted from localized thunderstorms. Many stockwater sources drying rapidly, supplies continue mostly short.

NEW ENGLAND: Precipitation 1.29 to 1.75 in. extreme northern Maine, 0.68 to 1.41 in. elsewhere north, 0.75 to 2.82 in. southern region; 5.11 in. Shepaug, Connecticut. Temperatures low 60s to high 60s north, mid 60s

to mid 70s south; 0 to 6° below normal. Maximum temperatures mid 70s to high 80s north, low 80s to low 90s south; minimum temperatures mid 30s to mid 50s north, low 50s to low 60s south.

Days suitable for fieldwork 5. Soil moisture 3% short, 81% adequate, 16% surplus. Available grazing 13% short, 84% adequate, 3% surplus. Fieldwork progress 4 days behind schedule. Maine potatoes good. Rhode Island potatoes good to excellent. Connecticut River Valley potatoes good. Maine oats good to excellent. Field corn good. Sweet corn in Connecticut, Massachusetts 6% harvested; good. First cut hay 89% harvested, 98% 1991, 95% avg.; fair to good. Second cut hay 15% harvested, 34% 1991, 21% avg.; good. Shade tobacco good. Outdoor tobacco good. Apple set, fruit drop average, scab infection light. Peach set average, 4% harvested in Connecticut, Massachusetts. Pear set average, 3% harvested Massachusetts; elsewhere 0% harvested. Early cranberry fruit set heavy. Strawberries set average, 100% harvested south, 85% north. Blueberry set average, 7% of high bush harvested south of Maine. Major activities: Irrigating, cultivating, mowing, spraying orchards, harvesting early vegetables, sweet corn, tomatoes, strawberries, blueberries, haying.

NEW JERSEY: Temperatures slightly above normal. Extremes 57°; 99°. Rainfall 1.14 in. north, 0.68 in. central, 0.62 in. south. Heaviest 24 hour total 1.06 in. on 15th, 16th. Estimated soil moisture, in percent field capacity, averaged 83% north, 60% central, 43% south. Four inch soil temperatures 74° north, 76° central, 79° south.

Soil moisture content short in southern areas. Cantaloupe, watermelon in light, increasing volume. Leeks, parsley, turnips, beets, green onions in light volume. Tomatoes, squash, peppers, cucumbers, beans in moderate volume. Cabbage, spinach, collard, broccoli rabe, kale in moderate, decreasing volume. Potato harvest in south. Light peach harvest of early Clingstone varieties. Blueberries raspberries, blackberries in limited volume. Cutting hay, wheat. Barley, rye harvest finishing in central areas. Pastures, field crops need more rain.

NEW MEXICO: Generally cool temperatures, 2 to 4° below average across the northern, central mountains, the central valleys. Several areas in the far south, southeast had started the week with afternoon highs near 100°. Showers, thunderstorms increased at midweek, except along the northern border where showers were a daily occurrence all week. Rainfall 0.50 to 0.92 in. were received along the eastern border, northern, southwestern mountains.

Days suitable for fieldwork 6.4. Soil moisture 53% short, 47% adequate. Light hail reported in isolated areas. Crop conditions: Alfalfa, 6% fair, 88% good, 6% excellent. Corn, 8% fair, 90% good, 2% excellent. Wheat harvest was nearly complete at 99% harvested. Onions 40% fair, 60% good with harvest still underway. Chile 46% fair, 54% good. Apples 7% poor, 14% fair, 79% good. Pecans 20% fair, 70% good, 10% excellent. Cattle, sheep fair to excellent. Range, pasture 91% of normal.

NEW YORK: Temperatures quite variable, averaging mid 70s to mid 80s. Precipitation well above normal. Especially wet in western, central areas with rainfall averaging 3.00 to 4.00 in. Rainfall eastern areas 1.00 to 2.00 in. Severe thunderstorms caused wind damage, locally heavy rain from Susquehanna region to Hudson Valley. Small tornadoes sighted in New York City area.

Days suitable for fieldwork 2.5. Soil moisture mostly adequate to excessive. Pasture 87% of normal. Hay mostly good, wheat poor to good. Rain, humid conditions helped corn growth. First cut alfalfa 97% complete, 96% 1991, 92% avg. Second cut 50% complete. Clo-tim 84% harvested, 97% 1991, 89% avg. Dry bean planting complete. In Lake Ontario region, apples good, harvest expected two weeks later than 1991. Sweet cherry harvest stopped early due to cracking--two thirds of crop abandoned. Statewide, onions good to very good. Strawberry harvest winding down. Long Island cauliflower crop moving to market.

NORTH CAROLINA: Temperatures 2 to 7° above normal. Precipitation extremely light with only trace amounts across State.

Days suitable for fieldwork 6.4. Soil moisture 28% very short, 63% short, 9% adequate. Crop condition: Wheat 27% fair, 70% good, 3% excellent; Pasture 14% poor, 59% fair, 26% good, 1% excellent; tobacco 6% poor, 58% fair, 36% good; corn 8% poor; 53% fair, 39% good; cotton 5% poor, 64% fair, 29% good, 2% excellent; peanuts 32% fair, 68% good; soybeans 3% poor, 46% fair, 49% good, 2% excellent; hay 5% poor, 56% fair, 38% good, 1% excellent; Irish potatoes 9% poor, 24% fair, 67% good; Sweet potatoes 25% fair, 73% good, 2% excellent; apples 15% poor, 48% fair, 37% good; peaches 19% very poor, 14% poor, 43% fair, 24% good; sorghum 62% fair, 35% good, 3% excellent; truck crops 10% poor, 47% fair, 43% good. Sorghum planted 100%, 100% 1991, 98% avg.; cotton squaring 72%, 95% 1991, 84% avg.; setting bolls 33%, 60% 1991, 57% avg.; corn silking 86%, 94% 1991, 85% avg.; soft dough 47%, 65% 1991, 54% avg.; soybeans flowering 15%, 20% 1991, 15% avg.; winter wheat harvested 98%, 100% 1991, 98% avg.; oats harvested 98%, 100% 1991, 99% avg.; barley harvested 99%, 100% 1991, 99% avg.; rye harvested 98%, 100% 1991, 97% avg.; peaches harvested 74%, 59% 1991, 59% avg. Hay, roughage supplies 3% short, 89% adequate, 8% surplus. Hay second cutting 35%. Major activities: Topping tobacco, harvesting tobacco, small grains, vegetables. Other activities: Harvesting hay; spraying tobacco for sucker control; tending livestock; equipment repair; general farm maintenance.

NORTH DAKOTA: Weather conditions similar to last week, cool with showers throughout State. Temperatures 6° below normal east central, southwest, south central, southeast to 4° below normal northwest. Extremes 42° north central; 88° north central, west central, south central. Precipitation 0.32 in. west central to 1.01 in. east central.

Days suitable for fieldwork 5.2. Soil moisture well above last year and average. Topsoil 2% very short, 9% short, 82% adequate, 7% surplus. Subsoil 8% very short, 34% short, 58% adequate. Small grain development continued

behind 1991 and average. Spring wheat 2% poor, 24% fair, 60% good, 14% excellent; 9% turning and beyond, 39% 1991, 36% avg. Durum 24% fair, 63% good, 13% excellent; 2% turning and beyond, 17% 1991, 21% avg. Barley 1% poor, 22% fair, 65% good, 12% excellent; 15% turning and beyond, 55% 1991, 56% avg. Oats 3% poor, 46% fair, 50% good, 1% excellent; 17% turning and beyond, 40% 1991, 44% avg. Winter wheat 5% poor, 33% fair, 61% good, 1% excellent; 1% combined, 9% 1991, 17% avg. Sugarbeets 89% good, 11% excellent. Corn 1% poor, 22% fair, 77% good; 1% tasseling to silking, 60% 1991, 38% avg. Flax 32% fair, 63% good, 5% excellent; 44% bloom or beyond, 70% 1991, 63% avg. Potatoes 100% good; 53% bloom or beyond, 90% 1991, 84% avg. Soybeans 4% fair, 96% good; 10% pods on lower plant, 37% 1991, 16% avg. Dry beans 29% fair, 71% good; 3% not fully podded, 33% 1991, NA avg. Sunflower 2% poor, 41% fair, 57% good; 24 in. avg. height, 39 in. 1991, 35 in. avg. Range, pasture 73% of normal. Hay 58% of normal. Alfalfa hay first cutting 94% complete, other hay 58%. Stockwater supplies 4% very short, 33% short, 62% adequate, 1% surplus.

OHIO: Stormy week, showers, thunderstorms each day 13th to 17th. Tornadoes, hail reported in scattered areas in the northern tier of the State. A front lingered over State most of the week until a cool front came through with some clearing for the weekend. Mostly dry with widely scattered showers on 16th to 17th. Temperatures near normal. Highs upper 70s to low 80s north to the middle 80s across the south. Lows 60s. Some daily highs topped 90° in the south. Rainfall was generally above normal with most areas of the State recording 1 inch or more. Some areas in the far south saw only 0.50 to 1.00 in. Isolated areas reported up to 1 foot of rain. Central areas have already topped the record for precipitation received in the month of July.

Days suitable for fieldwork 1.4. Topsoil 5% short, 46% adequate, 49% surplus. Wheat 3% very poor, 12% poor, 38% fair, 39% good, 8% excellent. Hay 1% very poor, 4% poor, 34% fair, 48% good, 13% excellent. Pasture 1% very poor, 7% poor, 32% fair, 46% good, 15% excellent. Oats 1% very poor, 5% poor, 31% fair, 52% good, 11% excellent. Rains, storms left water standing in fields just when farmers wanted to get in and harvest their wheat. This will delay harvesting that was already running well behind normal.

OKLAHOMA: Temperatures 3° below normal east central to 6° below normal Panhandle. Precipitation 1.64 in. northeast to 4.15 in. south central.

Days suitable for fieldwork 5.4. Topsoil 7% short, 82% adequate, 11% surplus. Subsoil 100% adequate. Wheat 98% harvested, 100% 1991, 100% avg.; 67% plowed, 87% 1991, 82% avg. Cotton 2% poor, 82% fair, 16% good; 52% squaring, 59% 1991, 57% avg.; 2% setting bolls, 11% 1991, 15% avg. Sorghum 1% poor, 9% fair, 80% good, 10% excellent; 99% emerged, 97% 1991, 100% avg.; 11% headed, 8% 1991, 20% avg. Corn 98% tasseling, 85% 1991, 74% avg.; 23% milk to soft, 18% 1991, 34% avg.; 1% mature, 2% 1991, 4% avg.; soybeans 83% planted, 100% 1991, 100% avg. Peanuts 59% pegging, 39% 1991, 51% avg. Pastures 100%.

Cattle good; marketings average, prices steady to slightly higher.

OREGON: Hot, dry statewide; late-week hot spell drove temperatures to above normal western portions, eastern portions normal to below normal, 4° below normal northeastern corner; precipitation very light southwestern, south central, coastal areas; elsewhere dry.

Soil moisture 82% short, 18% adequate. Winter wheat 10% very poor, 17% poor, 46% fair, 27% good; 22% harvested. Barley 27% harvested. Second cutting of grass hay continues, some alfalfa in Willamette Valley. Curly top, drought causing some sugarbeet acres to be abandoned, Malheur County. Blueberry picking continued; other berries complete, Willamette Valley. Tart cherry harvest complete, peach and early apple harvest continued. Peach harvest winding down, southern areas. Freezer market cherry harvest complete, summer pruning underway; The Dalles. Bartlett pear harvest is expected by late July, Hood River Valley, Medford district. Cranberry development excellent, coloring above canopy, southern coast. Hot dry weather hampering cauliflower transplanting, Willamette Valley. Potatoes in Klamath Basin still closing rows, later than normal. Early potato harvest underway; Hermiston Boardman district. Onions, potatoes doing well, pest problems continue; Malheur County. Livestock continued good; rains have helped some higher elevated range, pastures. Stockwater continues to be short. Western ranges, pastures improved with recent rains. Dryland pastures statewide dry, dormant. Range, pasture 52% of normal.

PENNSYLVANIA: Temperature 73°, 3° above normal. Extremes 50°; 97°. Precipitation 2.53 in., 1.65 in. above normal.

Days suitable for fieldwork 4. Soil moisture 23% short, 70% adequate, 7% surplus. Corn 2% silk, 34% 1991, 15% avg.; height 44 in., 50 in. 1991, 41 in. avg.; 1% very poor, 4% poor, 17% fair, 46% good, 32% excellent. Soybeans 98% planted, 100% 1991, 98% avg.; 1% very poor, 3% poor, 23% fair, 50% good, 23% excellent. Barley 5% heading process or headed, 0% 1991, 18% turning yellow, 1% 1991, 20% ripe, 11% 1991, 57% harvested, 88% 1991. Wheat 7% heading process or headed, 0% 1991, 25% turning yellow, 3% 1991; 52% ripe, 20% 1991, 16% harvested, 77% 1991; 1% very poor, 3% poor, 20% fair, 53% good, 23% excellent. Oats 42% heading process or headed, 12% 1991; 49% turning yellow, 26% 1991; 8% ripe, 29% 1991; 1% harvested, 33% 1991; 1% very poor, 4% poor, 18% fair, 52% good, 25% excellent. Alfalfa first cutting 99% complete, 100% 1991; 2nd cutting 37% complete, 67% 1991. Quality of hay made 41% poor, 40% fair, 19% good. First cutting of timothy clover was 95% complete. Last year at this time, it was 100% complete. Feed from pastures 3% very poor, 20% poor, 52% fair, 25% good. Peach 30% below avg., 57% avg., 13% above avg. Apple 20% below avg., 71% avg., 9% above avg. Activities: Spraying; hauling manure; maintaining machinery; cutting, baling hay; some combining; caring for livestock.

PUERTO RICO: No data available.

SOUTH CAROLINA: Temperatures across State 3 to 4° above normal. Rainfall averaged 0.40 in.

Days suitable for fieldwork 6.3. Soil moisture 12% very short, 68% short, 20% adequate. Tobacco fair to good; 92% topped, 96% 1991, 90% avg.; 24% harvested, 36% 1991, 20% avg. Corn fair to good; 97% silked, 97% 1991, 95% avg.; 76% dough stage, 87% 1991, 68% avg.; 5% mature, 33% 1991, 22% avg. Cotton fair; 93% squaring, 97% 1991, 86% avg.; 22% setting bolls, 73% 1991, 50% avg. Soybeans fair to good; 12% blooming, 19% 1991, 12% avg.; 3% setting pods, 3% 1991, 3% avg. Peaches poor to fair; 50% harvested, 62% 1991, 56% avg. Watermelons fair; 78% harvested, 82% 1991, 73% avg. Cantaloupes fair; 75% harvested, 80% 1991, 69% avg. Tomatoes fair to good; 95% harvested, 98% 1991, 95% avg. Cucumbers fair to good; 82% harvested, 84% 1991. Snap beans fair to good. Apples fair to good. Grapes fair to good. Fall hay fair; 25% harvested, 28% 1991, 16% avg. Peanuts fair to good. Sorghum fair to good; 77% planted, 88% 1991, 91% avg. Pastures fair. Rain late last week brought some needed relief from dry, hot conditions.

SOUTH DAKOTA: Temperatures 5 to 9° below normal. Extremes 31°; 90°. Precipitation was widespread 0.10 in. or less in the southeast to nearly 2 in. in the north central. Maximum 1.98 in.

Days suitable for fieldwork 2.6. Topsoil 10% short, 70% adequate, 20% surplus. Subsoil 5% very short, 26% short, 58% adequate, 11% surplus. Rye 5% very poor, 3% poor, 39% fair, 50% good, 3% excellent. Winter wheat 37% poor, 22% fair, 39% good, 2% excellent. Barley 2% very poor, 2% poor, 24% fair, 66% good, 6% excellent. Oats 2% very poor, 2% poor, 18% fair, 71% good, 7% excellent. Flax 3% very poor, 10% poor, 26% fair, 41% good, 20% excellent. Sunflowers 1% very poor, 1% poor, 13% fair, 70% good, 15% excellent. Winter rye 8% harvested, 47% 1991, 44% avg. All crop progress is behind normal due to wet conditions in some areas. Livestock 1% very poor, 0% poor, 8% fair, 72% good, 19% excellent. Pasture 89% of normal.

TENNESSEE: Warm, humid air spread through State early week leading to scattered thunderstorms. Less than normal precipitation fell. Temperatures near normal.

Days suitable for fieldwork 4.9. Soil moisture 1% very short, 20% short, 73% adequate, 6% surplus. Corn 87% tasseling, 71% 1991, 74% avg.; 21% dough, 29% 1991, 25% avg.; 5% dent, 9% 1991, 8% avg.; 1% poor, 4% fair, 59% good, 36% excellent. Cotton 95% squaring, 82% 1991, 91% avg.; 32% setting bolls, 28% 1991, 40% avg.; 0% poor, 30% fair, 65% good, 5% excellent. Sorghum 36% headed, 26% 1991, 36% avg.; 3% fair, 87% good, 10% excellent. Soybeans 100% planted, 99% 1991, 99% avg.; 20% blooming, 12% 1991, 19% avg.; 4% setting pods, 2% 1991, 4% avg.; 20% fair, 74% good, 6% excellent. Tobacco 19% topped, 20% 1991, 11% avg.; 2% poor, 46% fair, 49% good, 3% excellent. Alfalfa 93% 2nd cutting, 89% 1991, 89% avg. Pastures 1% poor, 12% fair, 69% good, 18% excellent. Cattle 9% fair, 83% good, 8% excellent.

TEXAS: Stable air weakened over Texas, showers became widespread over State. West Texas had measurable rainfall as moisture

from Pacific flowed eastward. At weekend, systems off Texas Coast contributed moisture to thunderstorms over eastern half of State. Coastal Plains picked up sizeable rain in certain areas. Lower Rio Grande Valley, High Plains below normal rainfall totals. Temperatures at or below normal for week over entire State due to cooler northwesterly flow over much of State, Cloudiness from showers in the east.

Crops: Corn made good progress; few fields in Plains recovered from hail damage. Fields in Central Texas in the dent stage, drying rapidly from hot temperatures. First generation corn borers sprayed in High Plains. Another week of hot temperatures ideal for cotton progress. In High Plains weed and insect control active in some fields. Bollworm egg lay observed in few fields. In Rio Grande Valley, bolls opened in most fields and defoliation practices could begin soon. Rice fields heading rapidly along Upper Coast. Harvest activities approaching soon. Grain sorghum harvest in full swing in southern, central portions of State last week. Many fields matured rapidly due to hot, dry conditions. Early planted fields in Blacklands began turning colors. Few fields sustained hail damage in the Plains. Insect, disease damage light. Small grain harvest virtually complete across the State. Peanut fields excellent growth last week. Leaf spot occurred in some fields. Few fields in Low Plains sustained insect, hail damage. Rain needed soon on dryland fields. Peanut 81% normal compared, 78% 1991. Soybean fields progressed good along Upper Coast. Early maturing fields in Blacklands began turning colors, dropping leaves. Producers sprayed for stink bugs began in Central Texas.

Commercial Vegetables: In San Antonio-Winter Garden, peppers making good progress. Melon harvest winding down. In East Texas, watermelon harvest continued. Sweetpotatoes looked good. Some vegetables sprayed for insect, disease problems. On High Plains, potato harvest underway. Peppers setting blooms. In Trans-Pecos, chile peppers continued blooming. Some vegetables watered. Cantaloupe harvest continued. Pecan producers in Trans-Pecos and Central Texas sprayed for 2nd generation casebearers. Most trees neared water stage. Insect problems caused concern in many areas.

Range and Livestock: Range, pasture provided adequate grazing; however, moisture needed soon. Livestock good. Hornfly spraying continued. Dry conditions continued to deplete soil moisture around the State; however, late week showers provided some relief to isolated areas. Hail, high winds on the Plains caused minimal damage to some crops. Cultivation, irrigation practices were active across the State. Small grain harvest was winding down on the Plains as other producers continued land preparation for fall planting.

UTAH: Temperatures 7° less than normal, minimums 2° less than normal. Moderate precipitation all areas of State.

Days suitable for fieldwork 6.1. Soil moisture 63% short, 37% adequate. Irrigation water 18% very short, 71% short, 11% adequate. Stockwater supply 27% very short, 47% short, 26% adequate. Winter wheat Ripe 91%, 40% 1991, 66% avg.; harvested 36%, 7% 1991, 25% avg.

Spring wheat turning or better 93%, 63% 1991; ripe 61%, 12% 1991, 35% avg.; harvested 16%. Barley turning or better 90%, 71% 1991; ripe 68%, 12% 1991, 42% avg.; harvested 17%. Oats: turning or better 37%, 26% 1991, 43% avg.; ripe 9%. Corn height 51 in., 35 in. 1991, 48 in. avg. Corn tasseled 31%, 3% 1991. Alfalfa 2nd cutting 58%, 22% 1991, 38% avg. Other hay 65%, 54% 1991. Hay, roughage stocks 26% short, 48% adequate, 26% surplus. Tart cherries 79% picked. Apricots 87% picked. Pasture, range poor to fair.

VIRGINIA: Temperatures above normal. Extremes 54°; 102°. Precipitation none to 2.06 in.

Days suitable for fieldwork 6.2. Topsoil 12% very short, 72% short, 16% adequate. Pasture 15% poor, 50% fair, 31% good, 4% excellent. Alfalfa 2% poor, 35% fair, 52% good, 11% excellent. Other hay 9% poor, 54% fair, 34% good, 3% excellent. Apples 12% poor, 41% fair, 29% good, 18% excellent. Corn silked 44%, 60% 1991, 47% avg.; dough stage 6%, 26% 1991, 19% avg.; 19% poor, 39% fair, 29% good, 13% excellent. Soybeans 97% planted, 100% 1991, 98% avg.; 7% bloomed, 20% 1991, 13% avg.; setting pods 1%, 5% 1991, 6% avg.; 17% poor, 42% fair, 33% good, 8% excellent. Peanut 33% fair, 34% good, 33% excellent. Flue tobacco 2% harvested, 4% 1991, 4% avg.; 15% poor, 50% fair, 35% good. Wheat 90% harvested, 100% 1991, 97% avg. Barley harvest complete. Oats 89% harvested, 97% 1991, 90% avg. Potatoes 70% harvested. Livestock mostly good. Cutting hay, spraying alfalfa, fruit, irrigating tobacco, harvesting squash, cucumbers, sweet corn, tomatoes, topping tobacco, spraying peanuts, planting double crop soybeans. Some flue tobacco blooming prematurely.

WASHINGTON: Temperatures 2° below normal to 4° above normal west; 6° below to 2° above normal, east. Rainfall none to 0.39 in. west; none to 0.44 in. east.

Days suitable for fieldwork 6.8. Soil moisture 67% short, 33% adequate. Hay, other roughage 5% very short, 17% short, 64% adequate, 14% surplus. Range, pasture 1% very poor, 40% poor, 51% fair, 8% good. Winter wheat 20% harvested, 1% 1991, 6% avg. Barley 15% harvested, 1% 1991, 6% avg. Alfalfa hay second cut 75% complete, 49% 1991, 51% avg. Warm weather returns. Winter wheat, barley harvest continues; expected shortly remaining areas. Dry weather has producers harvesting hay; third cutting reported some central areas. Potato harvest underway; early fresh market harvest expected shortly Yakima. Sweet corn harvest continued; recent rains dramatically improved growth western areas. Cherry harvest complete, except few late Rainier varieties. Apricot harvest complete Grant county. Onion seed harvest in progress. Livestock being fed hay. Cattle on irrigated pastures doing well.

WEST VIRGINIA: Temperature 75°. Extremes 53°; 96°. Precipitation 0.77 in.

Days suitable for fieldwork 4.9. Soil moisture 23% short, 77% adequate. Tobacco 25% fair, 75% good. Gardens good. Barley good; 100% harvested. Oats 29% fair, 71% good; 90% ripe. Wheat 16% fair, 84% good; 100% ripe, 60% harvested. Hay 5% fair, 95% good; 95% first cut, 35% second cut. Apples good. Peaches good. Corn 10% fair, 90% good. Pastures 47% fair, 53% good; 88% of normal. Cattle good. Sheep good. Soybeans fair to mostly good; 100% planted, 100% emerged. Farm activities: General maintenance, cutting hay, clipping pastures, gardening, shearing sheep.

WISCONSIN: Temperature 65°; 5° below normal. Extremes 39°; 89°. Precipitation 0.20 to 2.30 in. Isolated showers throughout the State.

Days suitable for fieldwork 3.9. Soil moisture 14% short, 80% adequate, 6% surplus. Pasture 65% of normal, 73% 1991, 62% avg. General condition of crops 1% very poor, 6% poor, 42% fair, 48% good, 3% excellent. Oats 2% very poor, 11% poor, 33% fair, 51% good, 3% excellent; harvested 2%, 12% 1991, 8% avg. Corn height 46 in., 67 in. 1991, 57 in. avg.; 3% silked, 47% 1991, 26% avg.; 4% very poor, 6% poor, 35% fair, 47% good, 8% excellent. Second crop hay 23% harvested, 45% 1991, 38% avg. Soybean 3% poor, 26% fair, 66% good, 5% excellent. Winter wheat 3% harvested, 47% 1991, 29% avg.

WYOMING: Cool, wet weather prevailed last week. Temperatures 3 to 10° below normal. Precipitation was above normal for nearly the entire State. Most areas 0.10 to 0.50 in. above normal, except the southwestern, southeastern corners of the State.

Days suitable for fieldwork 5.6. Topsoil 34% short, 61% adequate, 5% surplus. Subsoil 53% short, 47% adequate. Spring wheat 2% boot, 8% 1991, 3% avg.; 53% headed, 48% 1991, 42% avg.; 27% turning color, 39% 1991, 39% avg.; 17% mature, 5% 1991, 15% avg.; 1% harvested, 0% 1991, 1% avg. Oats 6% boot, 14% 1991, 8% avg.; 62% headed, 54% 1991, 50% avg.; 25% turning color, 22% 1991, 31% avg.; 6% mature, 10% 1991, 10% avg.; 1% harvested, none 1991, 1% avg. Barley 2% boot, 11% 1991, 4% avg.; 25% headed, 40% 1991, 33% avg.; 49% turning color, 32% 1991, 40% avg.; 23% mature, 16% 1991, 21% avg.; 1% harvested, none 1991, 2% avg. Winter wheat 9% headed, 20% 1991, 8% avg.; 39% turning color, 28% 1991, 34% avg.; 47% mature, 41% 1991, 47% avg.; 5% harvested, 11% 1991, 11% avg. Potatoes 27% in bloom, 47% 1991, 49% avg. Dry beans 29% in bloom, 39% 1991, 33% avg. Corn 11% tasseled, 18% 1991, 14% avg.; 0% silked, 0% 1991, 1% avg. Alfalfa 80% of first cutting completed, 91% 1991, 92% avg.; 4% of second cutting completed, 4% 1991, 3% avg. Other hay 42% of acreage harvested, 47% 1991, 52% avg. Livestock mostly good to excellent. Range, pastures good to excellent.

International Weather and Crop Summary HIGHLIGHTS

July 12 - 18, 1992

FSU: Winter grain harvesting is delayed in the North Caucasus. Showers benefit crops in Black Soils Region. In the **New Lands**, beneficial rain and cooler weather alleviate heat stress on spring grains.

EUROPE: Rain improves moisture conditions across the north but slows early winter grain harvesting.

EASTERN ASIA: Beneficial moisture continues to ease dryness and favors summer crop development across the North China Plain.

SOUTHEAST ASIA: Beneficial showers aid crops in northern Thailand and the Philippines.

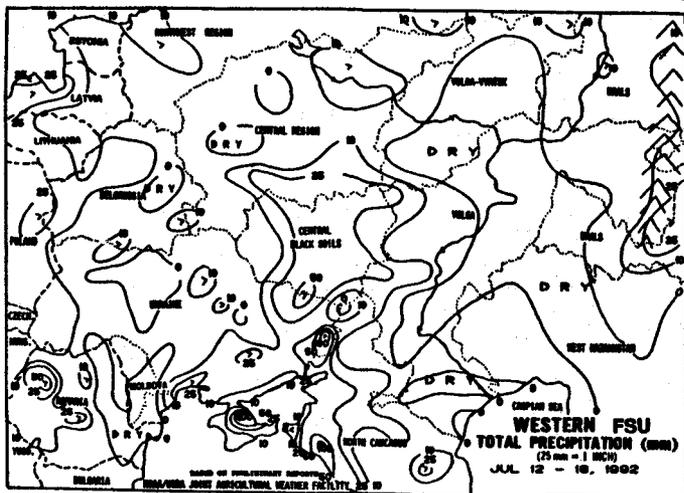
SOUTH ASIA: Increased monsoonal showers favor summer grains and oilseeds.

SOUTH AMERICA: In Argentina, topsoil moisture improves for winter grains, but cooler temperatures slow crop development.

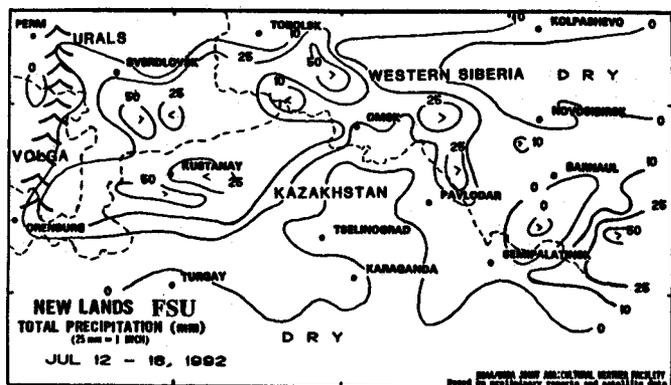
AUSTRALIA: Rain favors eastern winter grain areas, but more is needed for establishment.

CANADA: Cool weather slows crop development, but widespread showers favor reproductive grains and oilseeds.

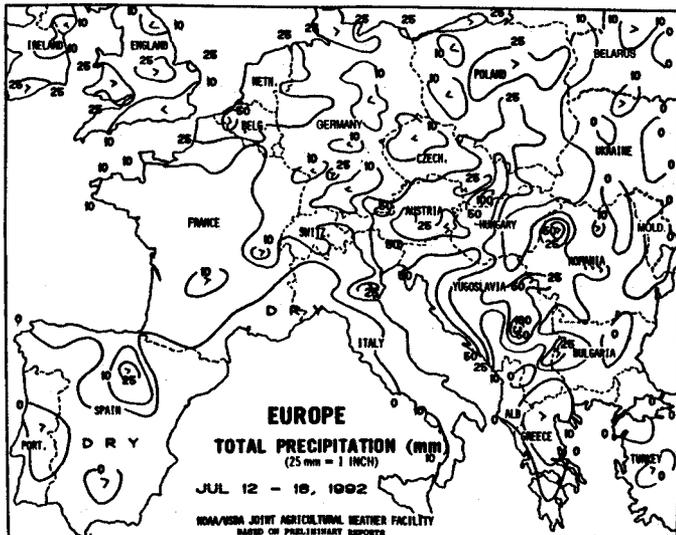
MEXICO: Summer rain continues in earnest, benefiting vegetative corn.



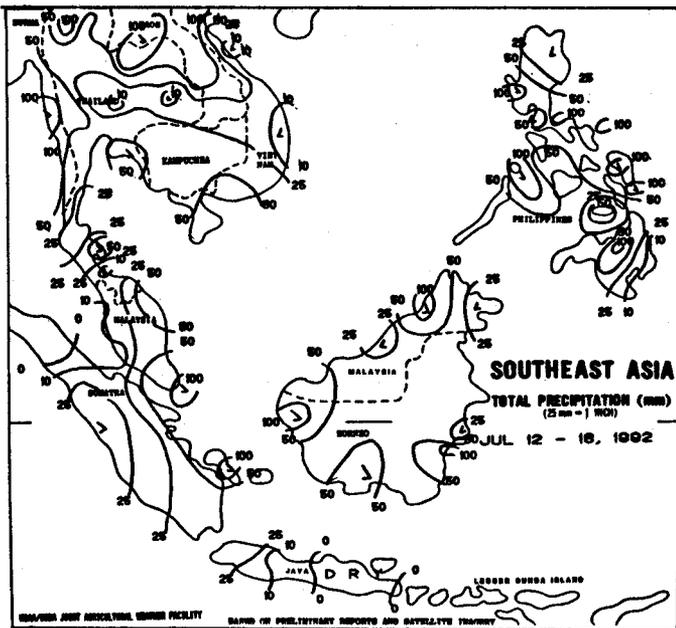
FSU - WESTERN: Locally heavy showers (50-104 mm) fell along a narrow stretch of extreme eastern Ukraine, slowing early winter grain harvesting. A broader area of 10-30 mm rainfall moistened much of the North Caucasus, eastern Ukraine, and Black Soils Region, favoring immature spring grains and corn development. Elsewhere, mostly dry weather returned to the Volga Valley and Volga-Vyatsk Regions. Variable showers (1-22 mm) fell in the west, with dry pockets scattered over western Ukraine, eastern Belarus, and the Central Region. Shower activity increased in western portions of the Baltic region. Temperatures averaged 1-4 degrees Celsius above normal except in the North Caucasus, where cool weather (1-2 degrees Celsius below normal) accompanied the rain.



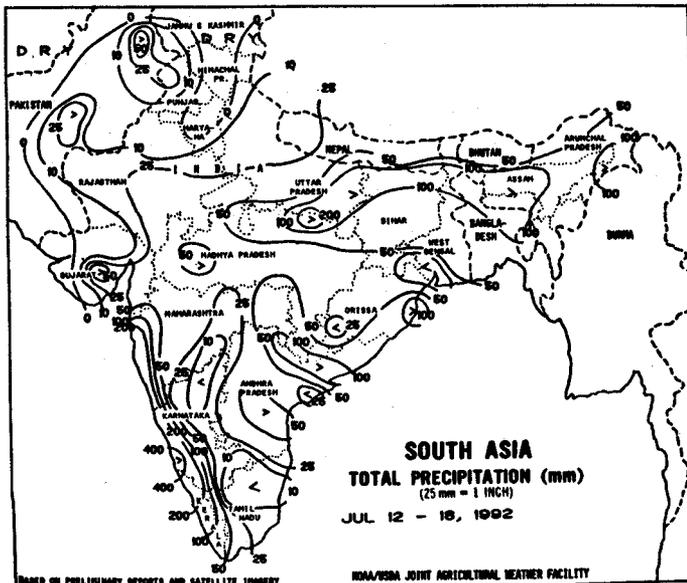
FSU - NEW LANDS: Substantial rain (25-78 mm) fell in the grain areas of western Kazakhstan, southern Urals, and Western Siberia, as a frontal system pushed across the region. Little, if any, rain (7 mm or less) fell in eastern portions of Kazakhstan. While the moisture favored reproductive spring grains, the crop experienced sharp temperature contrasts. Maximum temperatures in the mid to upper 30's degrees Celsius, and isolated 40-42 degrees Celsius, stressed crops during midweek prior to the passage of the cool front in central and eastern Kazakhstan and southern Western Siberia. High temperatures dropped into the 20's Celsius after the front pushed across the region later in the week, alleviating heat stress. The potential for crop damage was minimized by the short duration, lack of high wind and timely rain.



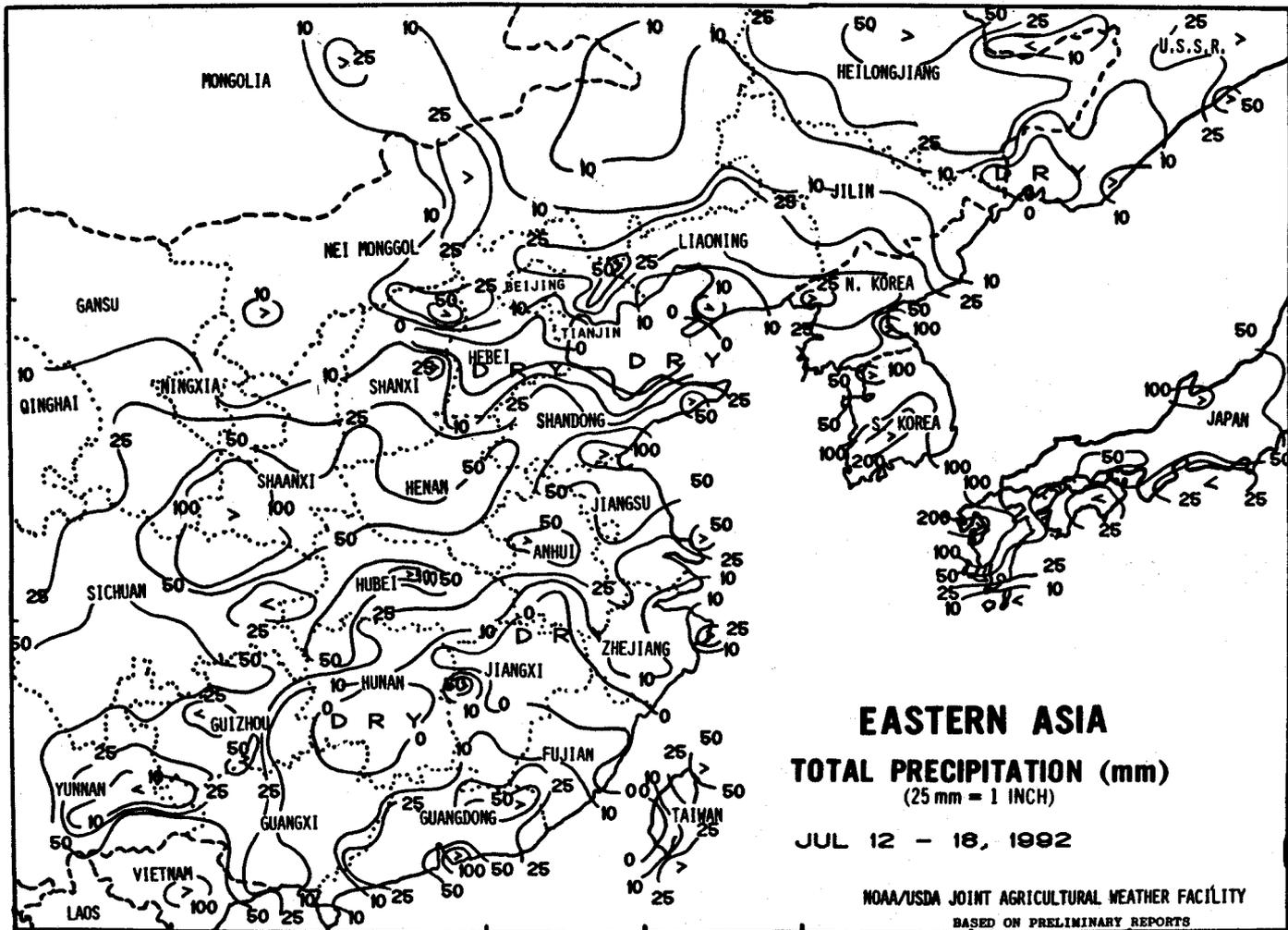
EUROPE: Widespread showers across northern Europe were beneficial for immature winter grains and oilseeds and spring crop development. The moisture was especially needed in northern Germany and Poland, where rainfall averaged 10-35 mm in most areas. Locally heavy rain (50-110 mm) was scattered throughout east-central Europe, although generally beneficial rain (5-25 mm) favored summer crops in most eastern crop areas. Drier weather was welcomed in Italy, following recent wetness. Light showers (1-5 mm) fell in most crop areas of France, with heavier rain (10-48 mm) in extreme northern France and the Benelux countries slowing winter grain maturity. Unseasonably warm weather (2-5 degrees C above normal) prevailed in the southwest, but generally seasonal temperatures prevailed elsewhere.



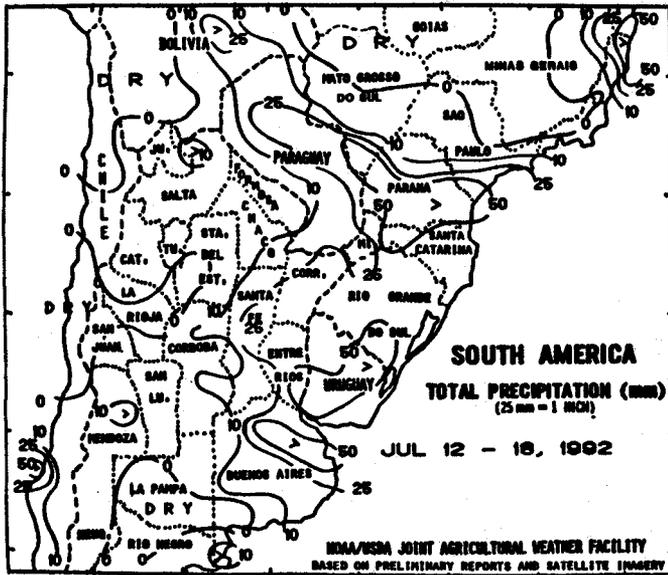
SOUTHEAST ASIA: Moderate to heavy rain (39-120 mm) covered most of northern Thailand, favoring vegetative to reproductive rice and corn. Central and east-central Thailand received only light rain (6-22 mm), but moisture levels should still be adequate. The heavy rain in northern Thailand was caused by the remains of Typhoon Eli, which stuck northern Vietnam early in the week with sustained winds of 70-80 mph. In the Philippines, a weak tropical depression, later to develop into Tropical Storm Faye, swept across Luzon, bringing beneficial rain (22-100 mm), but little wind damage. Further south, variable showers (16-107 mm) favored crops which were under stress from previous dryness.



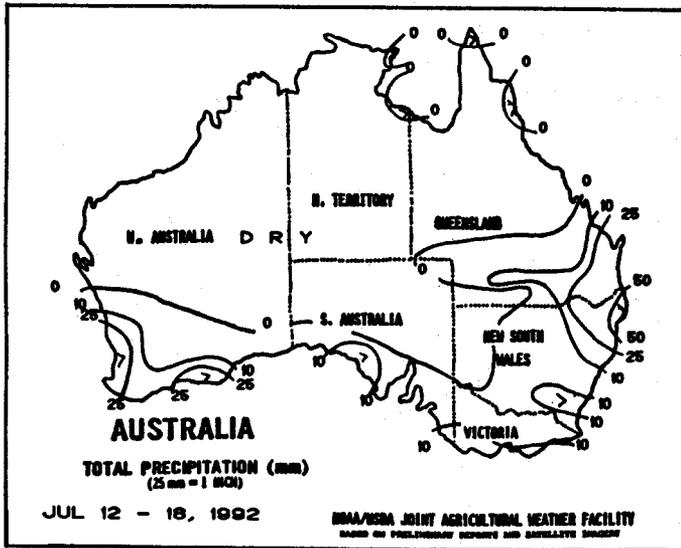
SOUTH ASIA: Monsoonal shower activity increased markedly across most crop regions in India. Heavy to extreme heavy rain (200-350 mm) covered the southwest coast, which is typical but has not been common so far this season. Moderate to occasional heavy showers (22-102 mm) aided eastern rice, central summer grains, and western oilseeds. The rain stabilized yield prospects in these areas, where early-season crops were stressed due to erratic monsoon rains. Frequent rains will enable yield prospects to improve. The first significant monsoonal showers (7-33 mm) fell across Rajasthan (7-33 mm), aiding planting moisture. Northern Pakistan received scattered moderate showers (38-71 mm), which benefited cotton and summer grains. Temperatures averaged 1-2 degrees C above normal across most of India and near normal in northern Pakistan.



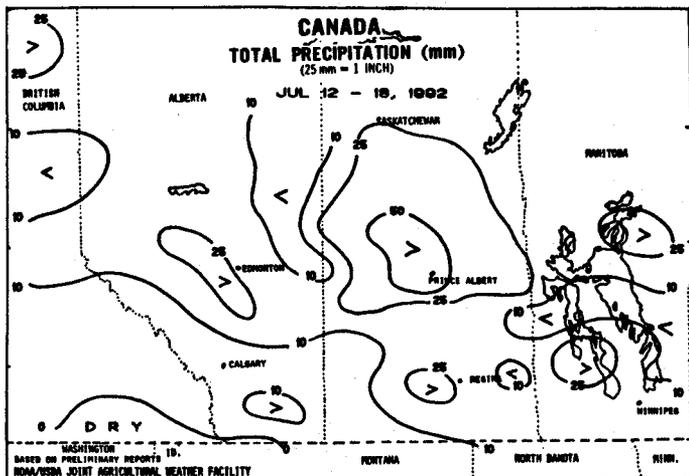
EASTERN ASIA: Beneficial widespread rain (16-90 mm) continued across the North China Plain, favoring vegetative to reproductive cotton and vegetative corn and soybeans. Light to moderate rain (5-58 mm) fell across Manchuria, aiding corn and soybeans, where dryness was becoming a concern. Central China received abundant showers (32-90 mm), with heavier amounts (greater than 100 mm) in Sichuan, Shaanxi, and Hubei, possibly causing flooding. Light to moderate rain (1-15 mm) fell across southern China, favoring early double-crop rice harvesting and second crop rice transplanting. Tropical Storm Faye struck Guangdong, near Hong Kong, with sustained winds of 40-50 mph, producing 39-180 mm of rain. The storm caused additional flooding but little or no wind damage. Temperatures averaged 2-5 degrees C below normal across central China and near normal elsewhere.



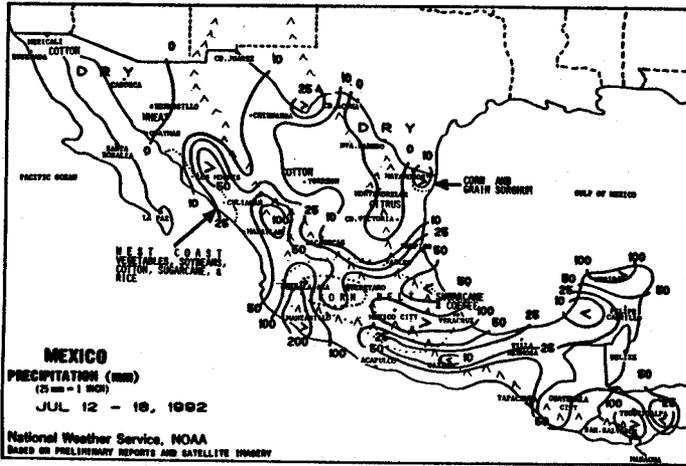
SOUTH AMERICA: In Argentina, light to moderate rain (12-69 mm) fell across Buenos Aires and southern Santa Fe, replenishing dry topsoils, but slowing winter wheat planting. Moderate rain (27-74 mm) in Entre Rios continued to delay linseed planting. A late-week cold front brought cooler temperatures (minimum temperatures ranging from -5 to -9 degrees C), slowing winter grain development. Across southern Brazil, moderate rains (27-72 mm) covered Parana southward to Rio Grande do Sul, favoring semi-dormant winter wheat. Temperatures averaged 2-4 degrees C below normal in central Argentina and extreme southern Brazil, and 1-3 degrees C above normal across the rest of southern Brazil.



AUSTRALIA: The winter grain areas of southern Queensland and New South Wales received light to isolated moderate rain (6-48 mm), which benefited germinating to vegetative winter grains. However, more rain is needed to ensure adequate establishment. Light to moderate rain (7-25 mm) fell across the southern and western winter grain areas, where rain continued to benefit winter crops. Temperatures averaged near normal across the western winter grain areas and 1-2 degrees C above normal in the east.

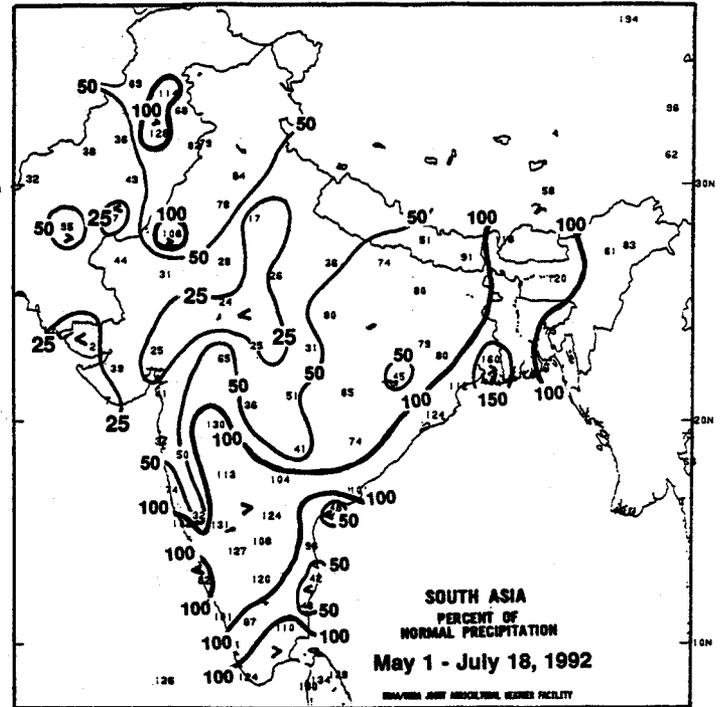
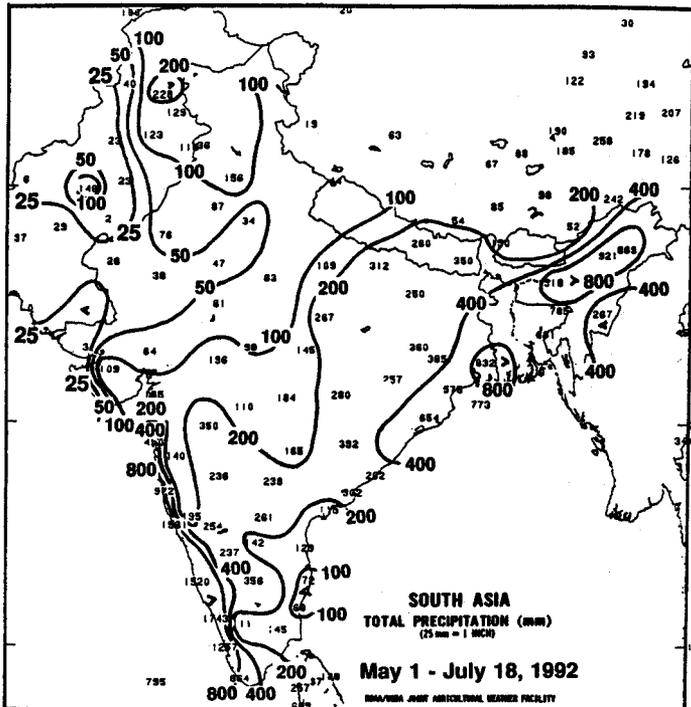


CANADA: Showers covered much of the Prairie Provinces, with the heaviest rain (25-57 mm) falling over the northern fringes of Saskatchewan's spring grain and oilseed growing areas. The moisture was especially beneficial in this area, following earlier below-average rainfall. Grains and oilseeds are progressing through reproductive phases. Widespread rainfall of 10-25 mm covered the northern half of Alberta's crop areas, all but southwestern Saskatchewan, and Manitoba. Mostly light showers (10 mm or less) fell in the southwest. While moisture is generally adequate, cool weather continued across the region, easing moisture loss but slowing crop development. Temperatures averaged 2-4 degrees C below normal throughout the Prairie grain belt.



MEXICO: Widespread moderate to heavy rain (32-183 mm, with isolated amounts greater than 200 mm) covered the Southern Plateau corn belt, keeping soil moisture levels adequate for vegetative to reproductive corn. Moderate rain (20-53 mm) fell across the west coast irrigated crop region (Sinaloa), where water supplies are abundant. Temperatures averaged 1-2 degrees C above normal across the corn belt.

Monsoon Progress Irregular



The Indian monsoon normally begins in southern India about June 1 and gradually spreads northwestward to Pakistan by mid-July. The onset of this year's monsoon was June 5, nearly a week behind schedule. Monsoon rains progressed northwestward in an erratic fashion during June. Rainfall became light and scattered from late June into early July, especially in the central and western Indian states of Madhya Pradesh, Uttar Pradesh, Maharashtra, Rajasthan, and Gujarat. Many areas in these states reported less than 25 percent of normal accumulations from May 1 through July 18. Coastal areas of the southeast Indian states of Tamil Nadu and Andhra Pradesh reported less than 50 percent of normal rainfall for this same period. Tropical disturbances from the Bay of Bengal and the Arabian Sea enhanced monsoon rains in most of eastern, southern, and southwestern India, where accumulations for the season-to-date are near or above normal. Westerly winds

in the upper atmosphere have been unusually strong and persistent across northern India and Pakistan, preventing the normal high altitude easterly winds from spreading over India. However, weather disturbances in these westerlies brought showers to northern parts of the sub-continent, resulting in near normal accumulations for the season-to-date. Beginning July 15, these westerlies retreated to a more normal location over Central Asia, allowing the easterlies to spread over most of India and establish a normal monsoon wind pattern at ground level. The result has been an increase of cloudcover and rainfall across much of India, and an apparent resurgence of the monsoon. Despite the newfound strength of the monsoon, concerns remain that the generally weak nature of this year's monsoon may be a harbinger of an early withdrawal of the rainy season, similar to what happened last year.

--David Secora

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(Continued from front cover)
in **northern and central Indiana**. Tributaries of the **Wabash River** running through **Marion and Kokomo, IN**, crested near their respective December 1990 record flood stages, and extensive flooding continued through the week along the **Wabash River** from **Lafayette to Terre Haute, IN**. Major flooding also affected the **Maumee River** basin from **Decatur, IN**, to **northwestern Ohio**. By midweek, the heaviest rain shifted slowly southward and eastward into the **Ozarks** and the **northern Middle Atlantic States**, with local amounts topping 4 inches. Cooler air edged into the **Northern Tier and Western States**, as **Alamosa, CO**, reached 36°F and **Caribou, ME**, dipped to 40°F to set daily records. Late in the week, a final surge of heavy rain spread from **Ohio to northern New England**. **Columbus, OH**, received nearly 10 inches of rain during the week to surpass their previous July rainfall record of 9.47 inches set in 1896. Elsewhere, significant rains returned to parts of **southern Texas** for the first time in more than 1 month, causing flash flooding near **Del Rio, TX**, while cool air spread into the **High Plains**. **Pueblo, CO**, and **Norfolk, NE**, reported daily record lows of 49°F.

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