

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

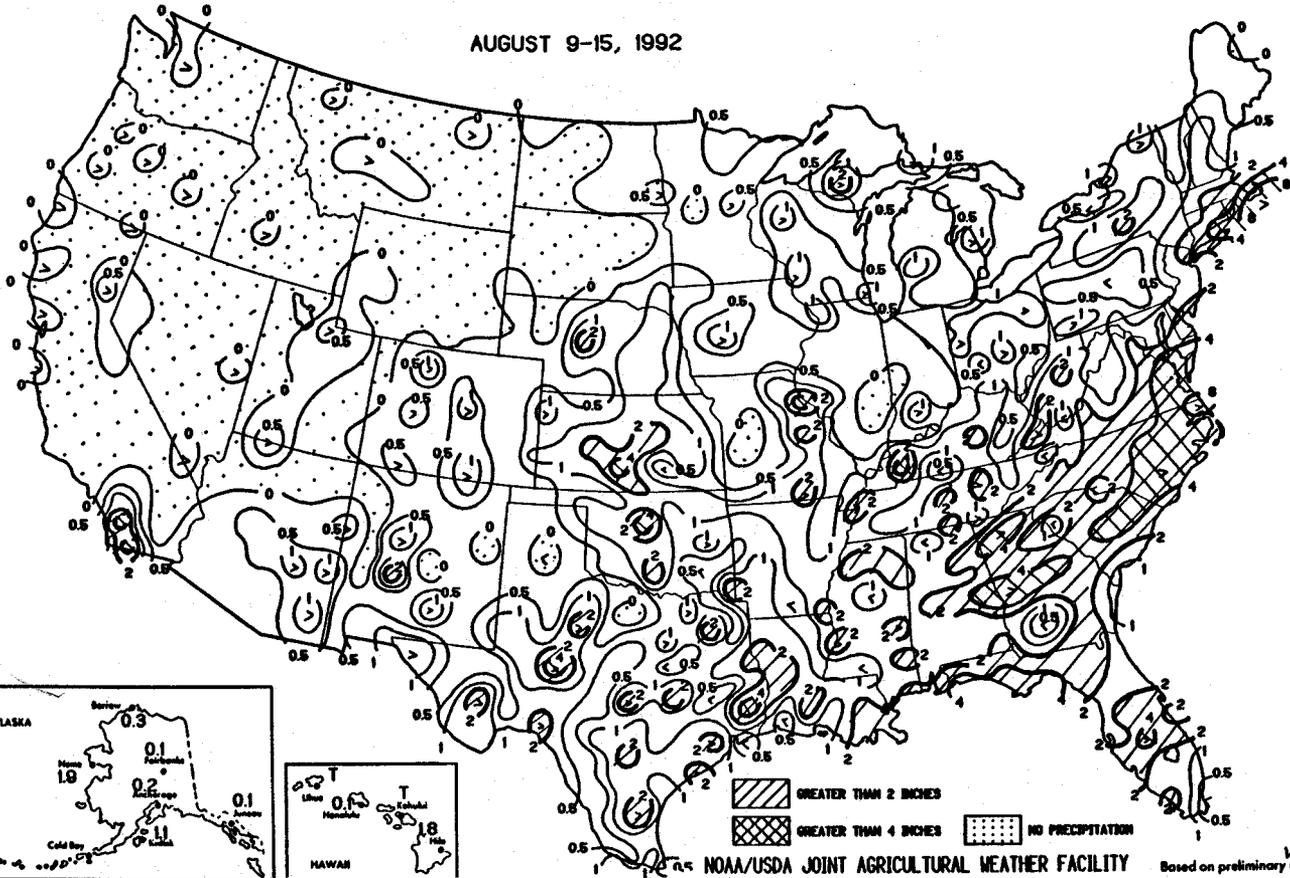
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August 18, 1992

TOTAL PRECIPITATION, INCHES

AUGUST 9-15, 1992



NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary reports

HIGHLIGHTS

August 9 - 15, 1992

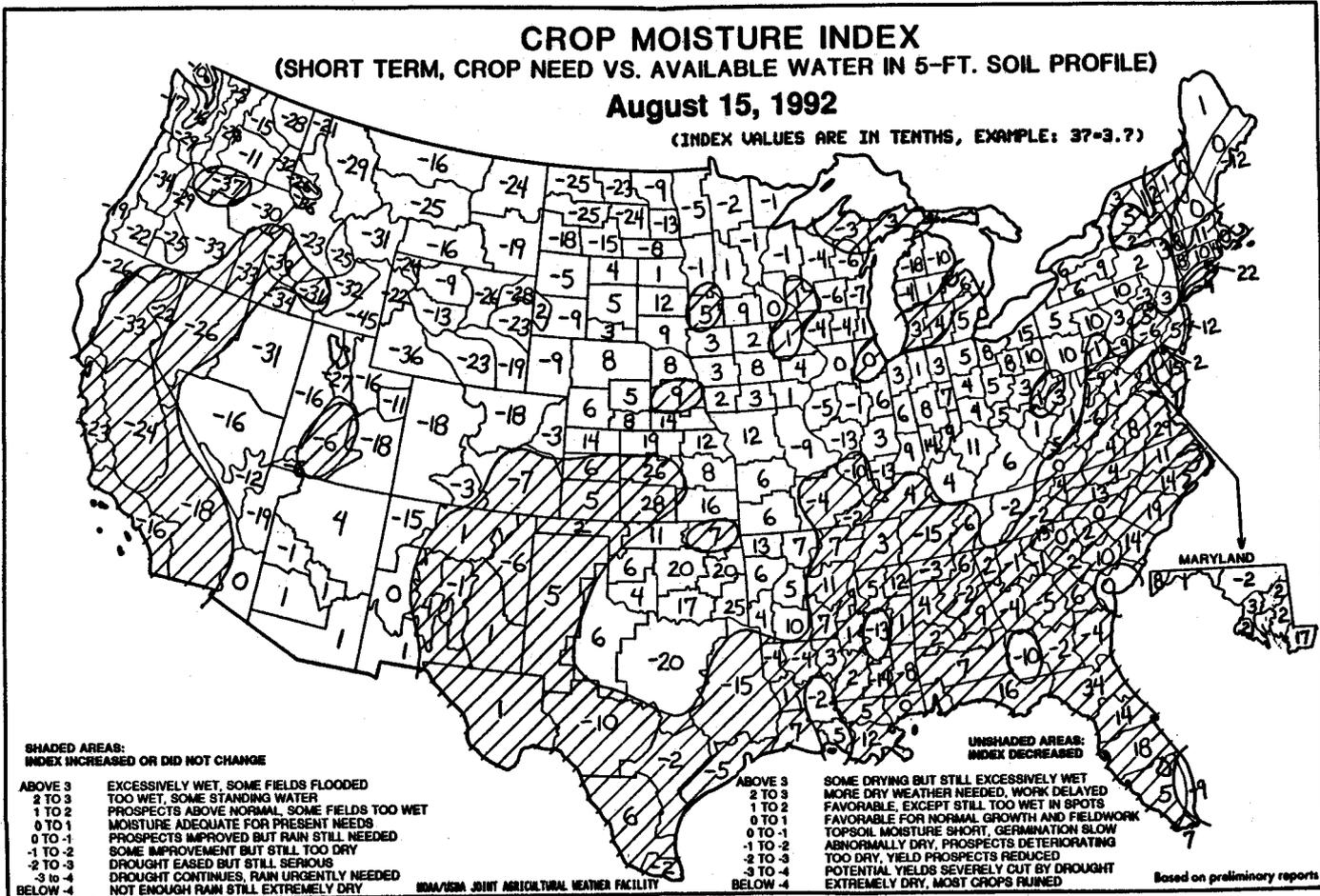
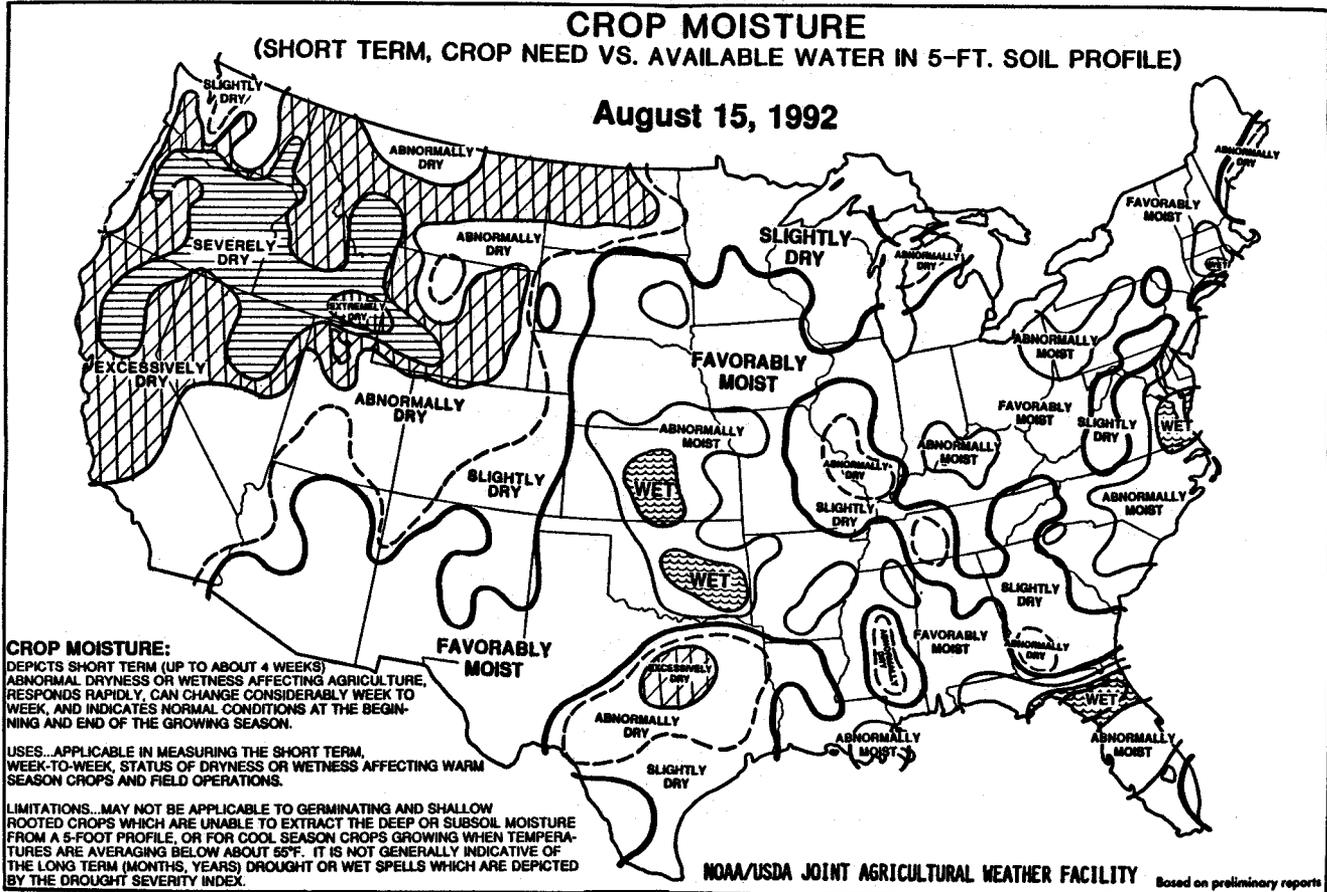
A large, autumn-like storm developed over the Eastern United States, reversing a temporary warming trend and producing heavy rain in the Atlantic Coast States. The West, meanwhile, sizzled under an upper level ridge. Early in the week, a departing storm dumped heavy rain on coastal New England, with local amounts topping 6 inches in Rhode Island. Farther west, high temperatures of 93°F in Madison, WI, 94°F in Grand Island, NE, and 100°F in Dallas-Ft. Worth, TX, were the warmest readings of the year-to-date. Sioux Falls, SD, reached 90°F for the first time since April 30. But by midweek, temperatures reverted to below-normal levels east of the Rockies as a strong cold front pushed toward the east coast. On Thursday, Michigan's Upper Peninsula had its first freeze of the year more than 1 month earlier than normal. Ironwood, MI, dropped to 31°F. In contrast, Pendleton, OR, reached 104°F to set a daily record high. The front lingered for the remainder of the week along the eastern seaboard, producing locally excessive rainfall. Southeastern Virginia endured more than 8 inches. Locally heavy rains also dotted the central and

southern Plains and the Southwest after midweek. Thunderstorms east of San Diego, CA, on Thursday unleashed more than 4 inches of rain in Mt. Laguna, and nearly 6 inches on Mt. Palomar. At week's end, more than 2 dozen daily record lows were set in the Central States, including readings of 45°F in Sioux City, IA, and 48°F in Omaha, NE. But west of the Continental Divide, highs reached 102°F in Yakima, WA, and 112°F in Phoenix, AZ.

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National Weather Data for Selected Cities

Weather Data for the Week Ending August 15, 1992

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT			NUMBER OF DAYS						
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Jun 1	PCT. NORMAL SINCE Jun 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE	MAXIMUM	MINIMUM	90 AND ABOVE	32 AND BELOW	TEMP. °F		PRECIP.	
																			.01 INCH OR MORE	.50 INCH OR MORE		
AL BIRMINGHAM	88	68	95	62	78	-2	2.1	1.3	1.4	15.5	142	30.4	82	98	55	3	0	3	2			
MOBILE	89	71	94	69	80	-2	1.9	.4	.9	18.0	111	44.9	105	99	60	2	0	3	2			
MONTGOMERY	91	69	96	67	80	-2	1.3	.6	1.1	16.5	171	40.6	124	99	56	4	0	2	1			
AK ANCHORAGE	62	52	64	48	57	0	.2	-3	.2	2.9	71	6.1	81	85	57	0	0	1	0			
BARROW	44	31	56	27	38	-1	.3	-1	1.1	62	1.5	60	95	71	0	4	5	0	0			
FAIRBANKS	69	46	76	34	57	0	.1	-3	1.1	4.6	114	7.9	126	96	47	0	0	3	0			
JUNEAU	63	50	72	45	57	1	1.5	.4	1.5	10.7	113	45.6	172	96	65	0	0	1	1			
KODIAK	59	49	64	46	54	-1	1.1	.0	5	11.4	116	37.9	113	99	80	0	0	4	1			
NOME	48	38	52	29	43	-8	1.9	1.2	1.0	3.1	63	5.4	69	92	69	0	2	6	1			
AZ PHOENIX	109	86	112	81	97	7	.1	-2	1	3.4	238	9.9	256	52	26	7	0	1	0			
PRESCOTT	92	62	95	60	77	4	.7	-1	.7	4.3	91	11.7	143	80	28	7	0	2	1			
TUCSON	102	76	107	72	89	5	T	-5	T	2.9	76	9.4	147	68	23	7	0	1	0			
YUMA	109	84	112	80	96	3	T	-1	T	T	6	3.2	261	---	---	7	0	1	0			
AR FORT SMITH	88	66	95	55	77	-5	.3	-4	.3	13.8	170	28.5	112	94	49	2	0	2	0			
LITTLE ROCK	85	67	94	59	76	-5	.3	-4	.2	14.9	172	32.1	101	79	55	2	0	2	0			
CA BAKERSFIELD	103	74	106	67	89	6	0	0	0	T	50	5.7	147	60	21	7	0	0	0			
EUREKA	66	57	68	55	62	5	T	-1	T	1.5	203	15.3	68	93	78	0	0	0	0			
FRESNO	103	73	106	67	88	9	T	0	T	.2	400	9.2	132	62	21	7	0	0	0			
LOS ANGELES	81	68	86	66	75	4	0	0	0	.3	500	11.9	143	94	60	0	0	0	0			
REDDING	106	66	110	50	86	4	0	-1	0	1.7	142	20.2	81	69	15	7	0	0	0			
SACRAMENTO	100	61	104	53	80	5	0	0	0	.3	231	10.1	95	79	21	7	0	0	0			
SAN DIEGO	83	72	87	70	77	5	.1	1	1	.2	---	10.1	91	63	0	0	2	1	1			
SAN FRANCISCO	75	57	85	54	66	3	T	0	T	4	355	13.3	107	95	56	0	0	0	0			
CO DENVER	83	56	95	51	69	-3	T	-3	T	4.4	103	10.8	99	85	33	2	0	1	0			
GRAND JUNCTION	94	66	97	62	80	4	T	-2	T	1.3	102	5.6	120	50	17	7	0	0	0			
PUEBLO	87	57	102	51	72	-3	.4	-1	.3	5.1	128	7.5	98	84	37	3	0	3	0			
CT BRIDGEPORT	76	65	89	61	71	-3	4.9	4.1	2.6	14.4	177	26.8	105	93	65	0	0	5	2			
HARTFORD	75	61	90	54	68	-4	1.5	.6	1.0	12.0	144	27.1	102	95	60	1	0	5	2			
DC WASHINGTON	82	67	93	63	75	-5	1.5	.5	.6	9.7	103	24.2	98	95	58	2	0	5	1			
FL APALACHICOLA	86	73	91	72	80	-2	7.7	6.1	3.2	16.6	107	34.9	106	---	---	5	0	5	3			
DAYTONA BEACH	91	71	94	69	81	0	1.0	-4	.8	14.6	98	26.9	92	98	58	5	0	3	1			
JACKSONVILLE	91	73	97	71	82	0	1.1	-7	.8	17.5	110	41.3	124	95	55	4	0	3	1			
KEY WEST	91	78	92	74	85	0	1.6	6	6	16.1	151	23.4	114	88	63	5	0	4	0			
MIAMI	90	79	92	77	85	2	.5	-1.1	4	18.9	104	27.8	81	88	60	6	0	4	0			
ORLANDO	91	72	93	70	82	-1	2.7	1.2	1.4	15.4	84	35.2	100	99	58	6	0	5	2			
TALLAHASSEE	87	72	96	70	79	-2	3.1	1.4	1.6	23.4	123	45.9	105	100	68	3	0	4	2			
TAMPA	90	72	91	66	81	-1	1.1	-7	4	13.0	79	21.3	70	95	62	3	0	5	0			
WEST PALM BEACH	89	75	93	73	82	-1	.6	-6	.2	21.5	131	33.3	98	96	64	2	0	4	0			
GA ATLANTA	87	69	95	66	78	-1	1.9	1.2	.9	15.1	153	29.2	87	97	57	4	0	4	2			
AUGUSTA	91	69	99	67	80	0	2.5	1.6	1.9	14.5	142	31.1	103	100	54	4	0	3	2			
MACON	88	70	95	68	79	-3	3.9	3.0	1.8	19.7	197	36.9	118	98	59	4	0	4	3			
SAVANNAH	90	---	96	---	---	---	.6	-1.0	.3	18.8	114	35.8	103	95	58	4	0	4	0			
HI HILO	83	71	88	69	77	1	1.8	-6	1.2	29.9	150	46.0	58	96	72	0	0	4	1			
HONOLULU	89	76	91	75	82	2	.1	-1	0	2.5	191	6.2	45	78	48	2	0	2	0			
KAHULUI	87	72	88	63	80	1	T	-1	T	1.4	184	7.7	64	88	60	0	0	0	0			
LIHUE	85	76	86	75	80	1	T	-4	T	3.7	81	15.2	60	84	64	0	0	0	0			
ID BOISE	98	63	103	51	80	7	T	-1	T	2.1	166	4.2	57	47	17	7	0	0	0			
LEWISTON	98	64	104	53	81	8	0	-2	0	2.2	99	6.3	78	48	16	6	0	0	0			
POCATELLO	95	53	101	47	74	4	T	-1	T	2.1	119	4.3	62	54	13	6	0	0	0			
IL CHICAGO	77	59	93	52	68	-4	.4	-4	.4	6.4	70	13.8	64	93	51	2	0	1	0			
MOLINE	80	56	93	47	68	-6	.1	-8	0	14.1	128	21.5	86	99	51	2	0	2	0			
PEORIA	80	58	94	47	69	-4	T	-7	T	9.0	95	16.7	72	96	55	1	0	1	0			
QUINCY	79	58	93	47	69	-6	.1	-8	1	7.2	71	17.5	71	97	49	1	0	1	0			
ROCKFORD	76	54	92	46	65	-7	.2	-6	.2	7.0	65	15.5	64	91	51	1	0	1	0			
SPRINGFIELD	82	62	95	50	72	-3	.1	-7	1	9.3	107	17.6	78	96	55	2	0	1	0			
IN EVANSVILLE	85	64	95	54	75	-2	T	-7	T	10.9	120	22.4	79	91	49	2	0	1	0			
FORT WAYNE	79	59	92	53	69	-3	.7	0	.4	9.4	108	22.3	98	94	47	1	0	4	0			
INDIANAPOLIS	81	61	90	55	71	-3	.1	-7	1	16.1	161	27.0	103	96	51	1	0	1	0			
SOUTH BEND	77	59	90	54	68	-3	.6	-3	.6	7.8	82	17.5	73	95	52	1	0	1	1			
IA DES MOINES	79	60	90	50	69	-6	.4	-6	.4	10.1	108	20.8	100	93	48	1	0	1	0			
SIoux CITY	77	57	88	45	67	-7	.2	-6	1	9.2	103	18.7	104	100	53	0	0	2	0			
WATERLOO	77	52	90	43	65	-6	.4	-5	.4	9.3	86	19.4	86	97	51	1	0	1	0			
KS CONCORDIA	81	60	91	50	70	-8	.6	-1	.4	19.4	211	29.1	154	95	52	1	0	3	0			
DODGE CITY	83	62	97	57	72	-7	1.0	.4	.4	11.6	159	17.1	115	97	50	2	0	4	0			
GOODLAND	82	59	98	54	71	-4	1.2	.8	1.1	13.3	219	17.3	144	93	46	1	0	3	1			
TOPEKA	82	61	93	51	71	-6	.6	-3	.5	10.5	96	22.9	103	98	52	1	0	3	0			
WICHITA	83	64	94	55	73	-7	.2	-5	1	14.0	156	23.5	124	96	54	2	0	2	0			
KY BOWLING GREEN	85	65	90	59	75	-3	.4	-4	.3	7.1	68	24.2	73	96	58	2	0	2	0			
LEXINGTON	82	64	90	60	73	-2	1.0	0	.5	20.8	185	37.8	121	93	59	1	0	3	1			
LOUISVILLE	84	67	93	61	76	-2	.2	-5	.2	12.9	139	28.6	99	90	54	2	0	2	0			
LA BATON ROUGE	92	72	97	66	82	0	.9	-3	.3	22.1	171	48.2	128	100	55	5	0	4	0			
LAKE CHARLES	91	73	94	69	82	0	.1	-1.1	1	16.6	138	45.5	139	99	57	5	0	1	0			
NEW ORLEANS	90	73	95	73	82	0	2.6	1.2	1.7	18.7	131	47.8	123	99	57	3	0	6	1			
SHREVEPORT	90	66	98	56	78	-5	1.1	.6	1.1	8.4	103	31.5	109	95	50	3	0	2	1			

Based on 1951-80 normals.

Weather Data for the Week Ending August 15, 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 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
ME CARIBOU	72	52	79	42	62	-1	.1	-.9	.1	10.7	117	23.5	109	90	50	0	0	0	0	1	0		
PORTLAND	71	57	86	48	64	64	.6	-.1	.6	9.1	127	24.9	97	94	61	0	0	0	0	2	1		
MD BALTIMORE	83	65	95	61	74	-1	1.2	-.2	.5	8.2	83	21.2	80	97	59	2	0	0	0	3	1		
SALISBURY	82	--	93	--	--	-1	3.4	2.1	2.0	11.0	102	25.2	89	100	64	2	2	0	0	4	2		
MA BOSTON	73	61	91	58	67	1.6	1.8	1.0	.8	9.1	125	21.9	83	97	68	1	0	0	0	1	1		
CHATEAM	69	60	75	59	64	1.4	8.0	7.1	4.8	15.9	208	27.0	97	96	80	0	0	0	0	5	3		
MI ALPENA	73	47	88	38	60	1.6	T	T	T	5.9	77	14.5	81	96	43	0	0	0	0	3	0		
DETROIT	75	59	91	55	67	1.4	.3	-.4	.2	9.7	121	22.0	110	90	51	1	0	0	0	0	0		
FLINT	76	57	89	53	66	1.5	.4	-.4	.2	12.8	167	23.5	126	93	51	0	0	0	0	4	0		
GRAND RAPIDS	75	56	87	50	65	1.5	T	T	T	11.4	141	22.9	111	96	56	0	0	0	0	1	0		
HOUGHTON LAKE	74	49	86	39	61	1.5	.1	-.6	.1	5.8	79	13.9	80	95	43	0	0	0	0	1	0		
LANSING	76	53	88	47	64	1.4	T	T	T	9.2	118	21.4	115	97	54	0	0	0	0	1	0		
MARQUETTE	69	41	86	34	55	1.4	.9	-.1	.8	7.3	85	17.7	77	94	55	0	0	0	0	2	1		
MUSKOGON	75	55	86	49	65	1.4	-.1	-.7	.0	4.8	76	13.4	72	95	47	0	0	0	0	2	0		
SAULT ST. MARIE	71	46	82	39	58	1.6	1.1	-.4	1.1	8.0	103	17.5	92	95	55	0	0	0	0	1	1		
MN ALEXANDRIA	74	55	86	49	65	1.5	T	T	T	6.9	78	14.3	85	91	40	0	0	0	0	0	0		
DULUTH	71	50	83	39	61	1.5	.1	-.8	.1	10.1	103	17.9	94	94	50	0	0	0	0	2	0		
INT'L FALLS	72	49	80	42	61	1.5	.8	-.1	.7	7.9	89	14.4	92	96	46	0	0	0	0	3	1		
MINNEAPOLIS	76	56	91	47	66	1.6	.1	-.8	.1	12.1	129	18.0	100	94	44	1	0	0	0	1	0		
ROCHESTER	75	51	89	41	63	1.6	T	T	T	6.1	66	15.1	81	97	47	0	0	0	0	1	0		
MS GREENWOOD	89	69	96	59	79	1.6	.3	-.3	.2	10.5	113	25.2	70	97	54	2	0	0	0	2	0		
JACKSON	91	70	97	63	80	1.6	1.5	-.7	1.2	12.3	129	25.2	72	100	51	4	0	0	0	3	3		
MERIDIAN	91	71	96	66	81	1.6	3.0	2.2	1.8	17.3	163	39.7	109	91	48	4	0	0	0	1	1		
MO CAFE GIRARDEAU	84	65	93	53	74	1.6	.7	-.1	.7	8.2	91	21.6	74	94	52	2	0	0	0	1	1		
COLUMBIA	79	59	91	47	69	1.6	T	T	T	7.9	95	17.6	74	97	55	1	0	0	0	2	0		
KANSAS CITY	80	61	92	50	70	1.6	T	T	T	20.7	196	33.7	143	98	57	1	0	0	0	1	0		
SAINT LOUIS	82	62	96	51	72	1.6	.1	-.5	.1	5.8	68	16.2	71	93	46	1	0	0	0	1	0		
SPRINGFIELD	81	61	93	50	71	1.6	.4	-.2	.4	14.8	156	24.6	98	95	51	1	0	0	0	2	0		
MT BILLINGS	88	55	98	52	72	1.6	T	T	T	4.5	138	9.4	91	56	19	2	0	0	0	1	0		
GLASGOW	87	53	98	47	70	1.6	T	T	T	4.7	96	6.4	79	62	17	2	0	0	0	1	0		
GREAT FALLS	87	50	97	43	69	1.6	.0	-.3	.0	5.4	123	10.0	90	55	16	2	0	0	0	0	0		
HAVRE	84	48	95	44	66	-3	.0	-.3	.0	4.0	100	5.3	62	76	22	2	0	0	0	0	0		
HELENA	89	52	98	47	71	4	T	-.3	T	3.4	96	5.6	68	53	17	4	0	0	0	1	0		
KALISPELL	88	46	96	36	67	3	T	-.3	T	6.1	162	11.2	110	88	19	4	0	0	0	0	0		
MILES CITY	90	54	100	47	72	-2	T	-.3	T	5.6	115	9.7	94	56	17	2	0	0	0	0	0		
MISSOULA	91	50	100	40	70	4	.0	-.2	.0	4.0	131	8.1	93	71	18	4	0	0	0	0	0		
NE GRAND ISLAND	80	57	94	50	69	-7	1.3	-.7	1.2	13.9	184	23.9	142	96	49	1	0	0	0	3	1		
LINCOLN	82	59	93	49	71	-6	.6	-.1	.6	10.5	120	18.5	97	96	50	1	0	0	0	3	1		
NORFOLK	78	57	93	48	68	-7	1.3	-.7	1.1	11.8	134	19.2	109	94	49	1	0	0	0	2	1		
NORTH PLATTE	81	54	98	47	68	-6	.9	-.5	.9	9.2	121	17.9	120	94	42	1	0	0	0	2	1		
OMAHA	77	60	90	48	69	-7	-.1	-.9	.0	12.5	129	23.8	116	90	58	1	0	0	0	2	0		
SCOTTSBLUFF	85	54	94	47	69	-3	T	-.2	T	6.1	114	11.3	100	91	32	2	0	0	0	0	0		
VALENTINE	80	53	87	46	67	-6	.2	-.4	.1	10.8	164	14.5	112	92	40	0	0	0	0	3	0		
NV ELY	91	52	94	46	71	5	-.1	-.1	.1	3.9	228	7.1	118	55	15	5	0	0	0	1	0		
LAS VEGAS	107	81	109	77	94	6	.2	.0	.2	.3	35	6.9	276	42	18	7	0	0	0	1	0		
RENO	97	62	102	53	80	12	.2	.2	.2	1.5	221	2.9	62	58	16	7	0	0	0	3	0		
WINNEMUCCA	100	61	104	47	80	11	T	-.1	T	.5	43	2.0	39	43	15	7	0	0	0	1	0		
NH CONCORD	73	56	86	50	65	-3	.7	.0	.7	7.8	105	18.0	83	98	57	0	0	0	0	2	1		
NJ ATLANTIC CITY	82	64	94	60	73	-1	2.2	1.1	1.2	9.2	100	19.1	73	97	56	1	0	0	0	5	2		
NM ALBUQUERQUE	90	63	96	60	77	0	1.0	.6	.8	4.5	174	7.9	169	82	27	5	0	0	0	4	1		
CLOVIS	87	63	96	58	75	-2	.1	-.5	.1	4.5	67	13.9	124	83	34	2	0	0	0	1	0		
ROSWELL	94	--	102	--	--	-1	.2	-.3	.1	4.3	115	11.4	188	78	27	5	0	0	0	2	0		
NY ALBANY	74	58	85	49	66	-4	.6	-.1	.5	7.3	94	18.5	85	96	65	0	0	0	0	3	0		
BINGHAMTON	69	56	77	51	63	-5	.6	-.1	.2	8.5	98	25.3	111	97	67	0	0	0	0	5	0		
BUFFALO	72	57	83	51	65	-5	.6	-.3	.3	12.6	164	28.1	128	92	57	0	0	0	0	3	0		
NEW YORK	80	67	93	62	73	-3	1.4	-.4	.7	9.2	103	20.5	78	88	56	1	0	0	0	5	1		
ROCHESTER	73	55	84	48	64	-6	.4	-.3	.3	9.6	141	22.8	118	95	62	0	0	0	0	2	0		
SYRACUSE	73	57	82	49	65	-5	.4	-.5	.2	10.5	114	28.2	117	96	61	0	0	0	0	4	0		
NC ASHEVILLE	80	63	89	61	72	-2	2.3	1.4	1.2	11.6	121	32.0	112	99	63	0	0	0	0	5	2		
CHARLOTTE	85	69	95	66	77	-2	1.2	-.3	.9	10.5	113	29.2	102	93	56	4	0	0	0	3	1		
GREENSBORO	82	67	93	64	74	-2	2.5	1.6	2.5	10.9	106	28.4	103	93	62	2	0	0	0	3	1		
HATTERAS	86	73	88	70	79	0	4.3	2.9	2.0	12.9	102	34.2	104	97	66	0	0	0	0	4	3		
NEW BERN	88	72	94	70	80	1	5.7	4.2	1.8	17.4	116	34.6	101	99	64	4	0	0	0	5	4		
RALEIGH	84	67	94	65	76	0	6.3	5.3	3.7	15.2	149	28.7	104	98	63	3	0	0	0	6	2		
WILMINGTON	89	72	93	71	81	0	3.5	1.9	1.6	17.4	105	42.9	123	98	63	4	0	0	0	5	3		
ND BISMARCK	82	51	93	45	67	-3	.1	-.3	.1	6.4	110	9.0	80	83	28	1	0	0	0	1	0		
FARGO	78	53	90	44	65	-2	T	-.6	T	7.8	101	13.5	99	88	36	1	0	0	0	1	0		
GRAND FORKS	85	50	88	42	68	-2	.1	-.5	.1	5.8	82	11.9	95	87	36	0	0	0	0	2	0		
WILLISTON	76	58	88	53	67	-4	.1	-.2	.1	3.6	71	8.5	87	81	20	2	0	0	0	1	0		
OH AKRON-CANTON	76	58	88	53	67	-4	1.6	.8	1.3	16.2	181	30.7	129	98	59	0	0	0	0	2	1		
CINCINNATI	81	62	88	57	71	-3	.1	-.5	.1	12.2	125	25.9	96	98	57	0	0	0	0	3	0		
CLEVELAND	76	60	91	57	68	-3	1.8	1.0	1.1	13.9	164	29.7	130	94	60	1	0	0	0	3	1		
COLUMBUS	81	61	91	56	71	-2	.9	-.1	.8	16.2	165	28.5	113	97	55	1	0	0	0	4	1		
DAYTON	80	60	90	56	70	-4	.4	-.3	.3	11.0	127	26.6	113	95	55	1	0	0	0	3	0		

Based on 1951-80 normals.

Weather Data for the Week Ending August 15, 1992

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION								RELATIVE HUMIDITY, PERCENT	NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Jun 1	PCT. NORMAL SINCE Jun 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE		MAXIMUM	MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE
															.01 INCH OR MORE					.50 INCH OR MORE
TOLEDO	78	60	93	54	69	-2	.2	-1.5	.2	8.3	101	21.4	104	96	54	2	0	2	0	
YOUNGSTOWN	76	56	87	53	66	1.3	.3	-1.5	.3	12.1	131	25.5	105	98	60	0	0	0	0	
OK OKLAHOMA CITY	84	66	93	59	75	1.3	.3	-1.7	.9	14.3	180	26.5	127	90	50	2	2	2	1	
TULSA	86	68	97	58	77	1.0	.0	-1.4	1.0	13.5	144	27.1	108	89	44	2	2	0	1	
OR ASTORIA	75	55	91	47	65	.0	.0	-1.3	.0	1.5	37	25.8	69	93	56	0	0	0	0	
BURNS	94	54	99	41	74	.0	.0	-1.2	.0	3.7	362	6.0	102	55	14	5	7	1	0	
MEDFORD	102	62	107	51	82	.0	.0	-1.1	.0	3.2	297	7.5	70	74	20	0	0	0	0	
PENDLETON	96	64	104	54	80	.0	.0	-1.3	.0	1.7	140	4.6	65	45	14	6	6	0	0	
PORTLAND	92	60	101	51	76	.0	.0	-1.2	.0	1.3	57	15.6	76	91	30	4	0	0	0	
SALEM	95	55	105	46	75	.0	.0	-1.2	.0	1.7	96	16.2	74	83	21	5	0	0	0	
PA ALLENTOWN	78	64	87	60	71	1.6	.0	-1.6	.7	11.4	117	23.7	86	93	59	0	0	4	2	
ERIE	74	59	89	56	66	.8	.0	-1.1	.5	10.2	111	22.7	97	93	59	0	0	4	1	
HARRISBURG	80	65	91	61	73	.2	.0	-1.5	.2	5.8	68	17.6	71	92	54	1	0	1	0	
PHILADELPHIA	81	67	92	61	74	.9	.0	-1.0	.4	8.2	84	17.6	67	91	55	1	0	4	1	
PITTSBURGH	77	59	87	54	68	.7	.0	-1.1	.6	11.2	125	23.2	94	96	58	0	0	3	1	
SCRANTON	77	60	84	57	69	.6	.0	-1.2	.4	6.6	78	17.7	82	96	59	0	0	4	1	
RI PROVIDENCE	77	62	90	58	69	3.2	2.3	2.4	11.4	147	26.0	96	98	65	1	0	4	1		
SC CHARLESTON	89	75	94	73	82	1.6	.1	1.0	15.9	92	34.5	98	97	64	4	0	3	2		
COLUMBIA	88	70	98	68	79	4.1	2.8	2.7	14.5	115	30.3	90	97	54	4	0	5	3		
FLORENCE	87	71	95	69	79	5.9	4.8	1.8	14.4	113	26.8	89	98	59	4	0	5	2		
GREENVILLE	86	66	95	64	76	2.8	2.0	2.0	10.6	99	34.5	102	98	53	4	0	2	4		
SD ABERDEEN	77	51	89	43	64	.0	.0	-1.4	.0	9.3	143	12.2	92	94	39	0	0	0	0	
HURON	77	54	91	46	65	.0	.0	-1.5	.0	11.4	175	16.6	121	94	47	1	0	0	0	
RAPID CITY	85	52	92	45	68	.0	.0	-1.3	.0	5.4	90	11.0	87	78	24	1	0	0	0	
SIoux FALLS	76	55	91	46	66	-1.7	1.0	-1.3	.6	13.8	177	22.5	137	97	48	1	0	2	1	
TN CHATTANOOGA	84	66	91	60	75	.3	.7	.0	.5	15.2	159	33.1	96	100	58	2	0	3	0	
KNOXVILLE	83	67	87	61	75	.3	.9	.3	.4	10.7	109	27.2	86	99	64	0	0	3	0	
MEMPHIS	86	69	93	61	78	1.4	.5	1.3	15.1	162	31.3	90	91	57	3	0	2	1		
NASHVILLE	88	67	96	61	77	.6	.0	-1.1	.4	10.9	120	24.9	77	91	48	3	0	3	0	
TX ABILENE	88	70	96	62	79	.5	.0	-1.1	.5	8.0	140	19.8	137	88	45	3	0	2	0	
AMARILLO	85	63	97	60	74	.4	.0	-1.7	.0	10.3	135	16.9	126	87	42	2	0	0	0	
AUSTIN	94	74	99	72	84	-1.1	.8	.3	.8	7.4	127	35.1	186	92	43	6	0	1	1	
BEAUMONT	90	74	93	73	82	-1.1	.8	.6	18.2	134	46.7	137	97	58	5	0	2	1		
BROWNSVILLE	95	75	99	74	85	1.0	.5	-1.1	.4	2.4	45	17.7	145	96	49	7	0	3	0	
CORPUS CHRISTI	93	75	97	73	84	.0	.7	-1.1	.4	3.2	42	28.0	166	97	50	7	0	4	0	
DEL RIO	94	73	98	71	84	-2.0	.5	.2	.5	3.9	95	17.6	176	83	37	6	0	1	1	
EL PASO	94	68	104	65	81	0	1.6	1.4	1.6	2.7	98	9.0	211	77	26	5	0	1	1	
FORT WORTH	91	73	100	65	82	-1.4	.7	.3	.7	8.7	162	27.0	137	88	46	3	0	1	1	
GALVESTON	89	79	92	74	84	0	.1	-1.8	.1	7.3	79	36.3	159	86	59	2	0	1	0	
HOUSTON	90	73	94	72	82	-2.0	.5	-1.4	.5	9.1	93	39.9	143	98	58	5	0	2	0	
LUBBOCK	89	65	98	59	77	-1.1	.3	-1.2	.2	6.4	104	17.6	151	91	38	3	0	2	0	
MIDLAND	89	66	97	63	78	-1.4	1.5	1.2	1.2	5.9	153	19.3	236	92	40	4	0	3	1	
SAN ANGELO	90	69	99	65	80	-1.4	1.5	1.1	1.2	8.4	223	17.6	171	88	44	4	0	2	1	
SAN ANTONIO	93	73	99	70	83	-2.0	1.0	.5	.7	9.5	158	38.8	226	92	46	6	0	4	1	
VICTORIA	95	74	99	72	85	0	1.6	.9	1.3	5.2	62	40.5	193	97	49	6	0	4	1	
WACO	94	72	101	66	83	.3	.1	-1.4	.1	5.2	103	27.2	141	92	41	6	0	1	0	
WICHITA FALLS	90	64	101	55	77	-1.8	.1	-1.4	.1	10.8	190	19.6	117	86	43	4	0	1	0	
UT CEDAR CITY	92	59	94	55	76	3	.1	-1.2	.1	1.2	56	6.1	94	63	20	6	0	1	0	
SALT LAKE CITY	98	68	100	63	83	7	.0	-1.2	.0	.8	36	6.7	66	47	14	7	0	1	0	
VT BURLINGTON	73	54	82	45	64	-1.4	.3	-1.6	.1	7.6	85	17.9	88	97	61	0	0	4	0	
VA NORFOLK	84	69	93	64	77	-1.2	6.1	4.9	2.3	15.3	135	29.2	101	97	64	3	0	6	5	
RICHMOND	82	64	94	54	73	-1.4	4.3	3.1	1.7	13.2	117	30.8	111	99	64	3	0	5	3	
ROANOKE	82	62	95	52	72	-1.3	1.7	.8	1.5	10.4	120	30.1	120	93	53	3	0	3	1	
WA QUILLAYUTE	78	55	93	49	67	7	.0	-1.6	.0	3.4	51	51.6	89	95	52	1	0	0	0	
SEATTLE-TACOMA	85	60	91	52	73	8	.0	-1.3	.0	2.7	105	19.6	96	83	38	2	0	0	0	
SPOKANE	93	61	101	46	77	6	.0	-1.2	.0	2.6	131	7.9	80	52	16	5	0	0	0	
YAKIMA	95	55	102	45	75	6	.0	-1.1	.0	1.7	200	3.8	82	81	21	6	0	0	0	
WV BECKLEY	77	63	84	61	70	1.4	.6	.7	10.6	101	26.7	95	96	63	0	0	4	1		
CHARLESTON	81	63	89	59	72	.9	.0	-1.1	.5	12.2	112	29.2	102	100	60	0	0	4	0	
HUNTINGTON	83	64	89	59	74	.1	.0	-1.8	.1	11.3	111	26.8	97	98	57	0	0	3	0	
PARKERSBURG	80	60	89	55	70	.3	.0	-1.5	.2	11.2	115	24.2	94	100	61	0	0	3	0	
WI GREEN BAY	74	52	89	41	63	-2.2	.3	-1.5	.2	7.2	91	15.5	87	97	48	0	0	3	0	
LACROSSE	77	55	93	46	66	.8	.0	-1.0	.5	8.0	83	18.1	90	97	43	1	0	2	1	
MADISON	78	52	93	42	65	.3	.0	-1.6	.3	8.3	87	16.6	82	94	46	1	0	2	1	
MILWAUKEE	75	60	90	52	68	.7	.0	-1.0	.7	10.8	125	19.1	94	87	50	1	0	2	1	
WAUSAU	74	52	90	42	63	-1.5	.3	-1.6	.3	5.2	53	16.0	79	96	45	1	0	3	0	
WY CASPER	91	54	99	48	72	2	.0	-1.1	.0	2.3	91	6.2	76	61	15	4	0	0	0	
CHEYENNE	80	53	92	45	66	-1.1	.0	-1.3	.0	4.2	92	8.6	86	86	29	1	0	2	0	
LANDER	89	58	95	52	74	4	.0	-1.1	.0	3.7	162	9.8	104	50	19	4	0	0	0	
SHERIDAN	89	51	96	45	70	1	.0	-1.2	.0	5.9	166	10.5	99	66	21	3	0	0	0	

Based on 1951-80 normals.

Frost Risk in the U.S. Corn Belt

Due to the below-normal temperatures this growing season, there has been much concern about the increased frost risk to corn and soybeans in the Midwest. The following summary is based on published National Climatic Data Center (NCDC) frost dates and weekly National Agricultural Statistics Service (NASS) statistics. In examining NASS's statistics for the week ending August 16, 1992, the percentage of corn in the dough stage is 20-50 percentage points behind average in Iowa, Michigan, Minnesota, Nebraska, Ohio, South Dakota, and Wisconsin. This roughly translates into 3-18 days behind normal corn development. Soybean development is likewise behind schedule, but only about 10-20 percentage points for the setting pods stage. Please note that these statistics are State averages and subjective estimates. Considerable variations will occur within each state and region due to varying planting dates, hybrids, and local temperatures

The average dates of maturity for both corn and soybeans based on the 1986-90 NASS State statistics are given in tables 1 and 2. Note that in this 5-year average, corn matured earlier than the long-term normal in 1988, 1989, and 1990.

Figures 1 and 2 show the 50 percent (%) and 10% probability of frost (32°F or less) on or before the given date. The 50% probability of frost can be interpreted as the "average" frost date. For example, if corn in Iowa is estimated to be 10 days behind average, using the 5-year average date of September 9, 50% of the corn crop would be mature on September 19. Des Moines, IA, has only a 10-15% chance of frost on or before September 19 (see fig. 2). With an estimate of delayed development in each locality, one can approximate the chance of frost occurring and compare that with the level of maturity.

Bob Stefanski

**TABLE 1. DATE OF CORN MATURITY
(NASS AVG. 1986-1990)**

STATE	PERCENT		
	10%	50%	90%
IL	AUG 25	SEP 9	SEP 23
IN	AUG 24	SEP 10	SEP 30
IA	AUG 26	SEP 9	SEP 23
MI	SEP 9	SEP 27	OCT 14
MN	SEP 1	SEP 16	OCT 6
MO	AUG 20	SEP 1	SEP 2
NE	AUG 31	SEP 16	OCT 1
OH	SEP 1	SEP 21	OCT 16
SD	SEP 1	SEP 17	OCT 6
WI	SEP 1	SEP 16	OCT 12

**TABLE 2. DATE OF SOYBEAN YELLOWING
(NASS AVG. 1986-1990)**

STATE	PERCENT		
	10%	50%	90%
IL	AUG 23	SEP 7	SEP 23
IN	AUG 23	SEP 8	SEP 25
IA	AUG 25	SEP 9	SEP 22
MI	NA	NA	NA
MN	AUG 19	SEP 2	SEP 14
MO	NA	NA	NA
NE	AUG 31	SEP 16	OCT 1
OH	NA	NA	NA
SD	NA	NA	NA
WI	SEP 1	SEP 16	OCT 12

Figure 1

FALL FREEZE OCCURRENCE

50% CHANCE OF 32° F OCCURRING ON OR BEFORE GIVEN DATE

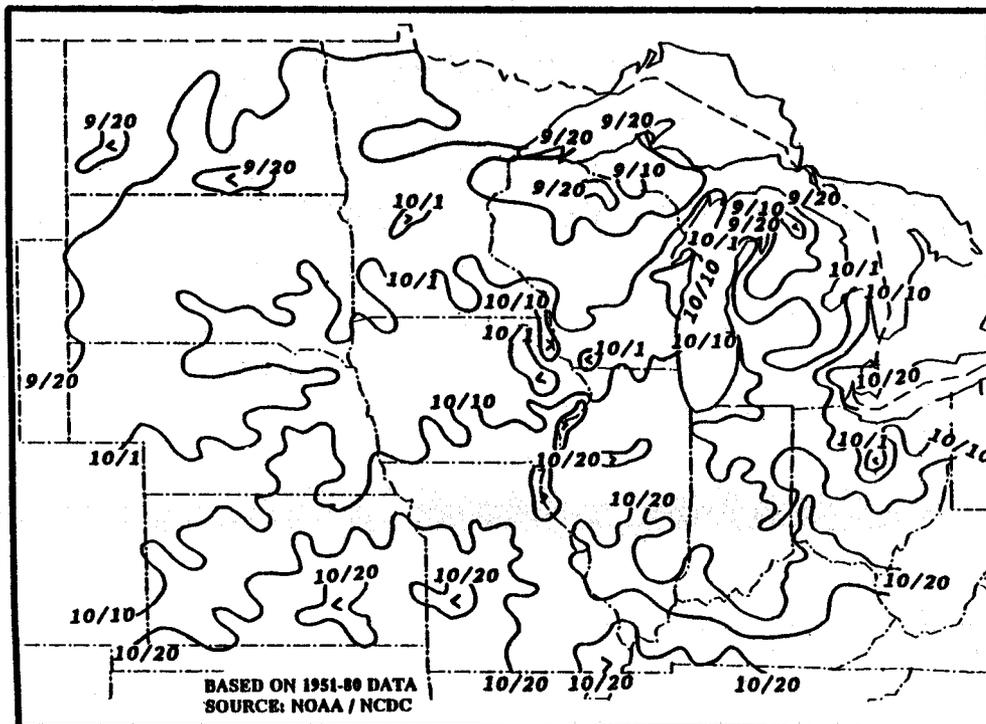
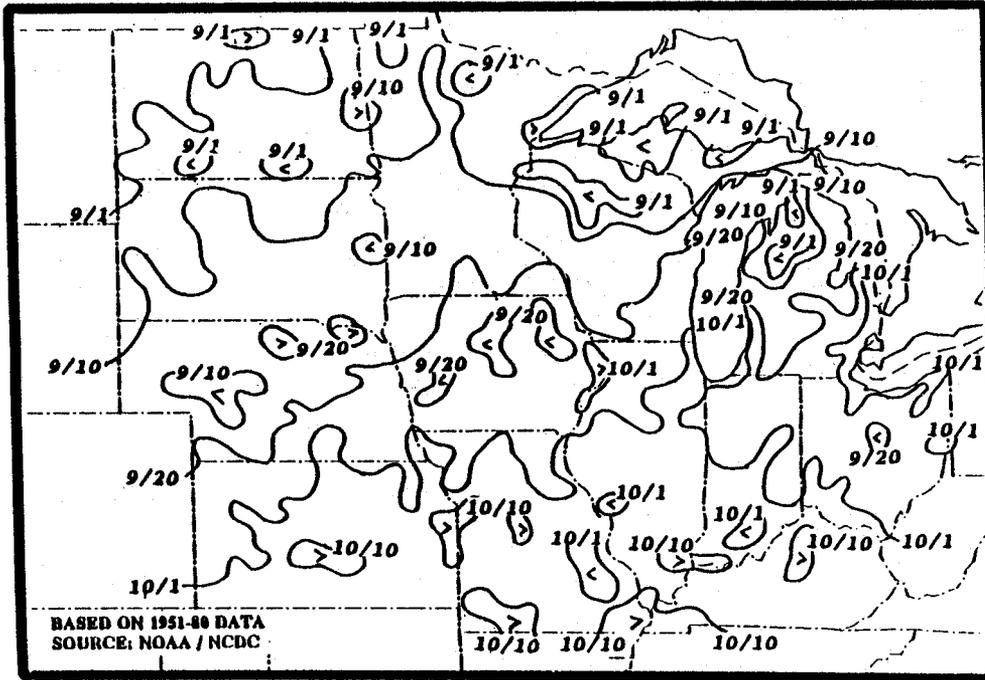
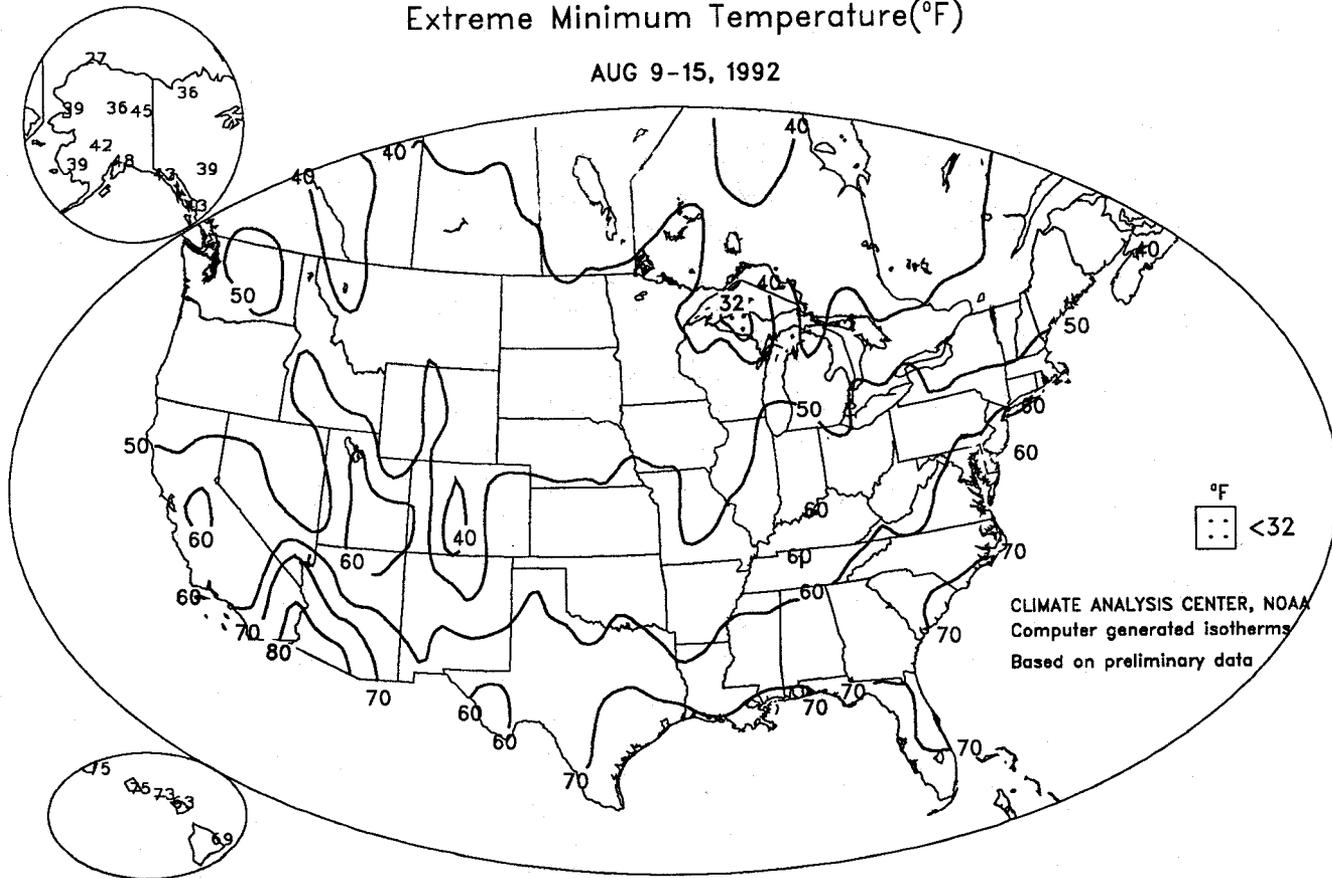


Figure 2
FALL FREEZE OCCURRENCE
 10% CHANCE OF 32° F OCCURRING ON OR BEFORE GIVEN DATE



Extreme Minimum Temperature(°F)

AUG 9-15, 1992



National Agricultural Summary

August 10 - 16, 1992

HIGHLIGHTS: Cool, damp weather across much of the eastern half of the Nation continued to slow development of row crops, while hot, dry weather prevailed in the West. Severe weather brought crop-damaging hail and winds to many parts of Nebraska.

SMALL GRAINS: Winter wheat harvest approached completion in the northern Rocky Mountains, northern Great Plains, and Pacific Northwest, and was virtually complete further south. Temperatures rose in the northern Rocky Mountains, but continued to average well below normal in the Great Plains, keeping spring wheat development delayed. Spring wheat harvest was only 14% complete in the five major producing States, 49 percentage points behind last year and 55 points behind the 5-year average. Progress of the spring wheat harvest was extremely delayed in Montana, Minnesota, and the Dakotas, but was ahead of schedule in Idaho. Spring wheat condition continued to rate mostly good in all five major States. Barley, oats, and rye harvests remained active in the Central and Northern States, with oats harvest nearly complete in the middle Mississippi and Ohio Valleys.

CORN: Relatively cool weather persisted across the Central and Eastern States, keeping corn progress behind schedule. Forty-three percent of the crop was in the dough stage in the 17 major States, compared with 74% last year and 67% average. Thirteen percent of the crop had dented, compared with 40% last year and 31% average. Harvest was active, but interrupted by rains in Texas and the South. Crop condition continued to rate mostly good.

SOYBEANS: Soybean progress rebounded somewhat, but remained delayed in the northern producing States. Progress was near normal for the 19 major producing States. Bloom was 93% complete in the 19 major States, 1 point ahead of both last year and the average. Pod-setting was 72% complete, 5 points behind last year and 3 points behind the average. Crop condition ratings continued to show significant improvement from last year, with mostly good conditions predominating.

COTTON: Cotton progress remained behind schedule due to late seeding and development in the southern Plains. Bolls were setting on 78% of the acreage in the 14 major producing States, 13 points behind last year and 14 points behind the average. Bolls were opening on 9% of the acreage, compared with 12% last year and 11% average. Crop condition ratings remained mostly fair in the Carolinas, New Mexico, and Texas, and mostly good in the other major States. Growers in the California desert were defoliating plants in an attempt to avoid whitefly damage.

GRAIN SORGHUM: Ahead-of-normal progress in the Delta was more than offset by delayed development in the Great Plains and middle Mississippi Valley. Sixty-three percent of the

crop had headed in the 12 major producing States, 14 points behind last year and 12 points behind the 5-year average. Coloring had advanced to 29% of the acreage, compared with 36% last year and the 33% average. Harvest was beginning, as weather permitted, in the Delta, and continued in Texas.

RICE: Rainfall limited progress of rice harvest in the southern Delta, but few interruptions occurred along Texas' Upper Coast region. The crop was 13% harvested in the five major producing States, compared with 17% last year and 12% average. Rice sheath blight and blast problems continued in central and east-central Arkansas. Fertilization and flooding for second crop rice was undertaken in Louisiana.

OTHER FIELD CROPS: Haying was in the third cutting across much of the East, and in the second cutting in the Rocky Mountains and Pacific Northwest. Rains continued to hamper haying efforts in the East. Harvest of early fresh market potatoes continued in Washington and Oregon, and began in Idaho. Dry pea, lentil, and mint harvests were well along in the Pacific Northwest. Flax harvest began in North Dakota, and safflower continued in full swing in California. Sugar beets were being harvested in the southern San Joaquin Valley, while high humidity resulted in some mildew problems in northern California fields. Sweetpotato harvest was active in the Delta and California. Hops harvest got underway in Oregon's Willamette Valley.

FRUIT AND NUTS: Harvests of stone fruit continued, though well along for most fruits, in California. California raisin grape growers harvested Thompson seedless grapes, table grape harvest continued, and some wine grapes were being picked. Almond harvest continued in California. Arizona's lemon harvest continued, as did the California Valencia orange harvest. Gala apple picking was active in Oregon and Washington, with picking expected to accelerate soon. Georgia pecans were in mostly fair condition.

VEGETABLES: Digging of summer storage onions progressed unhindered in the Rocky Mountains and Pacific Northwest. Watermelon harvest was well advanced in the Southeast. California summer vegetable harvests were tapering off, while tomato transplanting and winter vegetable seeding increased in Florida. Rains thwarted harvests in the East.

PASTURES AND LIVESTOCK: Persistent hot, dry weather in the West has diminished pasture and range feed supplies, while substantial rains in the Central and Eastern States have bolstered forage supplies.

Crop Progress

for the Week Ending August 16, 1992

COTTON
(Percent Setting Bolls)

	Current	Last Wk	1991	Avg.
AL	97	94	98	98
AZ	100	100	100	100
AR	100	99	100	99
CA	100	100	100	99
GA	99	98	99	100
LA	100	100	94	97
MS	99	98	98	98
MO	100	92	100	100
NM	88	80	94	94
NC	86	68	93	91
OK	66	27	93	77
SC	96	87	99	93
TN	100	97	94	96
TX	57	47	84	87
14 States	78	71	91	92

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

COTTON
(Percent Bolls Opening)

	Current	Last Wk	1991	Avg.
AL	2	2	4	10
AZ	36	25	11	34
AR	3	2	0	3
CA	10	5	2	6
GA	4	1	7	13
LA	11	1	1	8
MS	3	1	5	8
MO	0	0	4	5
NM	0	0	5	4
NC	2	1	7	8
OK	2	0	0	1
SC	0	0	8	6
TN	2	1	2	4
TX	13	9	22	14
14 States	9	6	12	11

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

GRAIN SORGHUM
(Percent Headed)

	Current	Last Wk	1991	Avg.
AR	98	97	81	87
CO	27	7	46	46
IL	91	72	93	79
KS	40	25	65	60
LA	100	100	82	91
MS	99	95	86	94
MO	88	79	80	81
NE	75	33	84	83
NM	56	28	83	NA
OK	51	41	67	62
SD	33	19	67	74
TX	80	76	89	87
12 States	63	49	77	NA
Excl. States with NA	63	49	77	75

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

CORN
(Percent Dough)

	Current	Last Wk	1991	Avg.
CO	18	7	33	33
GA	100	99	100	100
IL	74	65	91	81
IN	67	39	92	72
IA	25	14	54	59
KS	65	45	90	80
KY	88	68	89	73
MI	1	0	40	30
MN	10	2	58	60
MO	75	64	89	84
NE	40	25	80	70
NC	78	77	95	89
OH	50	25	97	74
PA	19	3	53	35
SD	23	8	66	60
TX	84	73	97	95
WI	12	6	59	45
17 States	43	30	74	67

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

CORN
(Percent Dent)

	Current	Last Wk	1991	Avg.
CO	0	NA	3	4
GA	99	NA	98	98
IL	24	NA	68	43
IN	9	NA	55	32
IA	5	NA	26	31
KS	20	NA	50	35
KY	52	NA	62	41
MI	0	NA	10	10
MN	0	NA	13	20
MO	37	NA	69	58
NE	4	NA	30	23
NC	70	NA	82	73
OH	7	NA	59	32
PA	1	NA	14	7
SD	8	NA	21	20
TX	68	NA	80	78
WI	3	NA	16	12
17 States	13	NA	40	31

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

GRAIN SORGHUM
(Percent Coloring)

	Current	Last Wk	1991	Avg.
AR	73	59	51	52
CO	6	0	1	4
IL	31	27	36	26
KS	4	3	15	10
LA	89	78	63	63
MS	74	61	52	63
MO	36	24	38	36
NE	1	0	18	15
NM	8	0	13	NA
OK	15	9	26	27
SD	0	0	11	19
TX	68	64	73	66
12 States	29	26	36	NA
Excl. States with NA	30	26	37	33

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

SOYBEANS
(Percent Blooming)

	Current	Last Wk	1991	Avg.
AL	69	66	68	72
AR	83	69	68	64
GA	87	72	90	92
IL	96	95	100	98
IN	99	97	100	98
IA	99	95	100	100
KS	90	80	95	90
KY	80	75	85	81
LA	94	90	66	80
MI	90	80	97	95
MN	98	96	99	99
MS	85	81	69	74
MO	90	85	85	86
NE	100	97	99	100
NC	56	49	72	62
OH	96	92	100	96
SC	73	59	76	69
SD	89	76	94	97
TN	82	72	69	71
19 States	93	88	92	92

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

SOYBEANS
(Percent Setting Pods)

	Current	Last Wk	1991	Avg.
AL	43	42	40	44
AR	59	43	43	36
GA	61	48	62	69
IL	83	71	97	89
IN	78	60	90	77
IA	85	68	87	93
KS	65	50	75	65
KY	39	31	47	40
LA	82	71	33	55
MI	40	20	70	65
MN	80	55	80	92
MS	62	56	37	48
MO	67	59	63	66
NE	73	53	83	79
NC	35	20	49	35
OH	70	50	100	86
SC	38	25	39	33
SD	67	45	88	85
TN	49	38	25	41
19 States	72	56	77	75

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

RICE
(Percent Headed)

	Current	Last Wk	1991	Avg.
AR	86	74	68	65
CA	55	15	50	37
LA	90	86	85	86
MS	85	79	48	76
TX	90	83	99	100
5 States	84	71	72	71

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

RICE
(Percent Harvested)

	Current	Last Wk	1991	Avg.
AR	2	0	6	1
CA	0	0	0	0
LA	40	33	39	31
MS	1	0	0	0
TX	30	23	50	43
5 States	13	10	17	12

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

SPRING WHEAT
(Percent Harvested)

	Current	Last Wk	1991	Avg.
ID	48	35	25	38
MN	15	9	79	85
MT	6	0	22	47
ND	10	1	65	66
SD	32	14	91	95
5 States	14	5	63	69

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

Crop Condition
(Percent)

for the Week Ending August 16, 1992

CORN

State	VP	P	F	G	EX
CO	1	5	24	55	15
GA	0	0	6	85	9
IL	0	0	5	75	20
IN	0	1	13	72	14
IA	0	1	4	64	31
KS	0	8	6	44	42
KY	0	0	4	66	30
MI	3	7	25	45	20
MN	2	11	42	41	4
MO	0	1	17	64	18
NE	0	3	23	48	26
NC	0	7	41	49	3
OH	1	5	21	47	26
PA	1	4	15	47	33
SD	0	2	22	49	27
TX	0	3	15	64	18
WI	3	4	29	58	6
17 State	1	3	17	58	21
Prev Week	1	3	18	57	21
Prev Year	5	12	36	38	9

SOYBEANS

State	VP	P	F	G	EX
AL	0	2	1	81	16
AR	0	0	15	68	17
GA	0	0	10	86	4
IL	0	0	10	79	11
IN	0	3	20	70	7
IA	0	1	15	69	15
KS	0	1	13	63	23
KY	0	0	29	65	6
LA	0	0	49	51	0
MI	2	8	25	45	20
MN	1	8	53	37	1
MS	0	0	10	76	14
MO	0	3	31	59	7
NE	0	1	8	70	21
NC	0	6	37	57	0
OH	2	9	31	43	15
SC	0	4	53	43	0
SD	0	2	22	49	27
TN	0	0	9	79	12
19 State	0	3	22	63	12
Prev Week	0	2	24	61	13
Prev Year	3	14	41	37	5

COTTON

State	VP	P	F	G	EX
AL	0	0	8	71	21
AZ	0	0	14	57	29
AR	0	0	18	82	0
CA	0	0	0	70	30
GA	0	0	28	67	5
LA	0	2	39	59	0
MS	0	0	46	54	0
MO	0	0	33	56	11
NM	5	5	50	40	0
NC	0	6	48	43	3
OK	16	8	20	56	0
SC	0	1	89	10	0
TN	0	0	19	73	8
TX	9	4	60	25	2
14 State	5	2	42	45	6
Prev Week	3	9	37	45	6
Prev Year	0	3	32	59	6

GRAIN SORGHUM

State	VP	P	F	G	EX
AR	0	0	8	68	24
CO	5	10	19	55	11
IL	0	0	18	64	18
KS	0	3	14	52	31
LA	0	0	35	65	0
MS	0	0	22	66	12
MO	0	0	15	70	15
NE	0	3	17	70	10
NM	0	0	28	66	6
OK	0	1	8	81	10
SD	2	6	32	47	13
TX	0	3	32	50	15
12 State	0	3	21	57	19
Prev Week	0	2	20	59	19
Prev Year	3	17	37	36	7

SPRING WHEAT

State	VP	P	F	G	EX
ID	5	8	21	60	6
MN	1	1	18	70	10
MT	3	12	29	45	11
ND	0	2	20	70	8
SD	0	5	23	68	4
5 State	1	4	22	65	8
Prev Week	1	5	23	60	11
Prev Year	N/A	N/A	N/A	N/A	N/A

RICE

State	VP	P	F	G	EX
AR	0	0	25	75	0
CA	0	0	5	85	10
LA	0	0	60	40	0
MS	0	0	34	66	0
TX	0	0	11	88	1
5 State	0	0	29	70	1
Prev Week	0	1	25	70	4
Prev Year	1	2	31	65	1

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 0.75 to 2.00 in. north, some areas over 4.00 in.; 1.00 to 2.75 in. south. Temperatures 2 to 6° below normal north; 2 to 5° below normal central; 3 to 4° below south. Lows mid 50s; upper 60s near coast. Highs low 90s to mid 90s.

Days suitable for fieldwork 3.5. Soil moisture 3% short, 73% adequate, 24% surplus. Corn 91% dented, 94% 1991, 93% avg.; 65% mature, 68% 1991, 72% avg.; 22% harvested, 30% 1991, 37% avg.; 2% fair, 47% good, 51% excellent. Sorghum 2% harvested, 8% 1991, 15% avg.; sorghum 16% fair, 77% good, 7% excellent. Peanut 80% good, 20% excellent. Pasture 4% fair, 65% good, 31% excellent. Livestock 3% fair, 76% good, 21% excellent. Primary activities: Harvesting hay, potatoes, fruits, vegetables, corn silage; cultivating row crops; scouting fields for insects, diseases; applying herbicides, insecticides to peanuts, cotton; general care of livestock, poultry, catfish.

ALASKA: Intermittent showers, infrequent amounts of sunshine prevailed. Highs 4° below normal to 12° above normal. Lows 3° below normal to 3° above normal. Seasonal precipitation 0.97 in. wetter than normal, Fairbanks to 2.58 in. drier than normal, PMC-Butte, Palmer area.

Days suitable for haymaking 4.0. Topsoil, subsoil moisture 16% short, 82% adequate, 2% surplus. Small grains: oats, 100% turning/earlier. Barley, 70% turning/earlier, 15% ripe, 10% swathed. Swathing started to minimize grasshopper damage in the Delta area. First crop hay harvest 90% complete. Second crop harvest underway. Prospects/small grains 50% below average, 50% average; 2nd hay, 70% below avg., 10% avg. 20% above avg.

ARIZONA: Thunderstorms 9th, central, north-east; light scattered showers 10th, statewide; intense thunderstorms 11th to 12th; northwest, east, central, south central; light showers 13th, west. scattered thunderstorms 14th, northeast; 15th, north, central, south. Temperatures normal to 7° above. Extremes 47°; 97°, higher elevations, 64°; 114° deserts.

Cotton setting bolls 100%, 100% 1991, 100% avg.; bolls opening 36%, 11% 1991, 34% avg.; 14% fair, 57% good, 29% excellent; weeds light to moderate; insects moderate, central, east; moderate to severe, west. Activities insect monitoring, pesticide applications, irrigating, statewide; defoliating, harvesting, west. Alfalfa mostly good; weeds, insects light to moderate; harvest, moderate to active, light rain damage. Lemon harvest, west. Cantaloupes, watermelons, honeydews, mixed vegetables harvested, central. Apples, cabbage, squash, garlic harvested, east.

ARKANSAS: Temperatures well below normal, scattered showers first of week. Extremes 43°; 96°. Rainfall none to 3.95 in.

Days suitable for fieldwork 5. Soil moisture 7% short, 83% adequate, 10% surplus. Main farming activities: Scouting rice, cotton; applying fungicide to rice, applying insecticides to cotton, applying herbicide to soybeans, draining rice fields, pasture weed control, hay harvesting, working cattle, harvesting fruits, vegetables. Cloudy, cool days slowed progress on cotton, rice crops. Early season rice varieties being harvested.

Rice sheath blight, blast problems continue in central, east central. Cotton Boll weevil activity remained high in southeast, east central. Shedding of fruit reported in east. Soybean sudden death syndrome reported in east central. Some worm problems in west central. Sorghum harvested 3%, 0% 1991, 1% avg. Corn 62% good, 38% excellent; harvested 8%, 17% 1991, 8% avg. Peach fair to good. Harvest nearing completion. Watermelon harvest continued, nearing 90% complete. Livestock good. Fly populations increased on untreated herds. Pastures mostly good. Grasshopper numbers remained high northwest, west central. Hay harvest continued.

CALIFORNIA: Strong high pressure over the west continued hot weather over interior State, cooler temperatures near the coast. Thunderstorms active mountains, locally heavy southern areas.

Field crops developed rapidly, warm, dry weather. Rice development good, ideal weather. Safflower harvest full swing. Cotton good development. Desert growers defoliating, attempt avoid whitefly damaged lint. Elsewhere controls mites, aphids, lygus applied. Dryland grain harvest progressed desert areas. Corn silage harvest active. Harvested early dry beans, aphid problems maturing Blackeye fields. Sunflowers full bloom. Alfalfa, clover seed harvests underway. Sugarbeets harvested southern San Joaquin Valley. High humidity resulted some mildew problems northern fields. Alfalfa hay harvest progressed normally. Some older fields removed, poor prices, high water costs. Harvest stone fruit continued. 90% Freestone peaches, nectarines, plums, Bartlett pears harvested. Prune harvest full swing. Raisin grape growers harvested Thompson Seedless grapes, laid on trays. Table grape harvest continued. Some wine grapes, juice grapes picked. Pomegranate harvest gathered momentum. Fig harvest began. Asian pear picking continued, excellent quality, sizes. Hot weather contributed kiwifruit sizing. Almonds harvested, taken to hullers. Walnut orchards watered, treated pests. Harvests avocados, grapefruit, Valencia oranges were ongoing. Navel oranges continued mature well. Strawberry harvest continued, demand exceeding supplies, variable quality central coast. Broccoli, cauliflower shipments light to fairly light, variable quality central coast. Carrot harvest continued steady Westside, Kern districts. Celery moderate, good quality Salinas-Watsonville, variable quality Santa Maria. Sweet corn harvest continued Statewide good quality. Harvest tapering off Kern-Tulare area. Iceberg lettuce moderate Salinas-Watsonville, light Santa Maria, variable quality. Fall lettuce planting began Westside area. Leaf, Romaine lettuce moderate, variable quality Salinas-Watsonville. Melon harvest continued to slow Westside area, other areas melon shipments proceeded good quality. Summer onion digging active central, southern districts. Summer potato harvest progressed Delta, south districts. Fall potato fields Tulalake-Butte Valley looking good. Sweetpotato harvest continued Merced-Atwater area, Selma District. Fresh market, processing tomato harvest continued Statewide good quality. Other vegetables harvested: beans, cucumbers, garlic for fresh market, processing, peppers, various oriental vegetables. Range, pasture mostly fair to poor. Lower rangeland decline in quality,

quantity. Higher elevations better conditions. Scattered pockets good to very poor. Cattle movement moderate to heavy. Bees active in melons. Supplemental feeding some areas. Stock ponds dry.

COLORADO: High pressure dominated the State most of period. A northwest airflow later in the week caused scattered showers across the State. Temperatures 3° above normal west of Divide, 2° below normal in the east.

Days suitable for fieldwork 5.3. Soil moisture 4% very short, 32% short, 60% adequate, 4% surplus. Alfalfa 2nd cutting 62%, 50% 1991, 65% avg. Alfalfa 3rd cutting 8%, 4% 1991, 8% avg. Barley harvested 50%, 38% 1991, 58% avg. Oats harvested 57%, 58% 1991, 54% avg. Spring wheat turning color 43%, 48% 1991, 75% avg; harvested 11%. Sorghum headed 27%, 46% 1991, 46% avg. Dry beans flowering 73%, 69% 1991, 82% avg. Dry beans 2% poor, 28% fair, 60% good, 10% excellent. Summer potatoes harvested 17%, 19% 1991, 16% avg. Corn silking 81%, 85% 1991, 89% avg.; dough stage 18%; 1% very poor, 5% poor, 24% fair, 55% good, 15% excellent. Livestock mostly good. Pasture, range feed good to excellent.

FLORIDA: Temperatures 2 to 4° below normal north, near normal Peninsula. Highs: low to mid 90s. Lows: upper 60s north, low 70s Peninsula except mid to upper 70s lower southeast coast. Wide spread rain north, northwest. Rainfall 2.00 to 5.00 in. common, isolated 7.00 to 12.00 in. Big Bend area, under 1.00 in. isolated totals over 2.00 in. Panhandle, most totals under 0.50 in. southeast.

Soil moisture adequate except surplus Panhandle. All crops making very good progress. Corn for grain harvest active. Haymaking delayed by inclement weather. Rain most citrus areas. Trees very good to excellent, abundant new growth. New crop fruit progressing well, sizes good, normal droppage. Caretakers cutting cover crops, spraying between rains. Ground preparation active all major vegetable areas. Tomato transplanting northern area complete. Tomato, watermelon, cucumber planting started Palmetto-Ruskin. Southwest; tomato, pepper transplanting underway. Daily rains causing some delay of land preparation, plastic laying, planting. Condition early planted tomatoes good. East Coast; planting slowed by storms. Tomato planting continues. Peppers look good. Early eggplant transplants off to good start, remaining eggplant transplanting continues. Homestead; land preparation for September planting. State's pastures fair to excellent. Pasture 15% fair, 50% good, 35% excellent. Moisture levels adequate to surplus. State's cattle herds good to excellent.

GEORGIA: Wet and cool week. Persistent rains kept temperatures 2 to 4° below normal. Rainfall amounts normal extreme southwest, southeast corners, 1.00 to 3.00 in. above normal elsewhere. Rainfall 1.00 to 5.00 in. north, between 1.00 to 3.00 in. south common. The largest reported amount was 10.11 in. at Sandersville.

Days suitable for fieldwork 4.9. Soil moisture 2% very short, 23% short, 57% adequate, 18% surplus before weekend rain. Corn 89% mature, 90% 1991, 91% avg.; 13% harvested for grain, 35% 1991, 34% avg. Cotton armyworms increasing, control active. Sorghum 12% fair, 88% good. Peanuts 21% fair, 73% good, 6% excellent; 0% dug, 1% 1991, 1% avg.; 0% threshed, 1% 1991, 0% avg. Tobacco 37% fair, 63% good; 81% harvested, 94% 1991, 83% avg. Watermelons 97% harvested, 97% 1991, 97% avg. Vegetables 2% poor, 73% fair, 25% good. Apples 1% poor, 25% fair, 74% good; 17% harvested, 31% 1991, 32% avg. Peaches 95% harvested, 96% 1991,

99% avg. Pecans 20% very poor, 18% poor, 41% fair, 21% good. Hay, pastures fair to good; armyworms some hay fields, pastures. Cattle, hogs good.

HAWAII: Tropical depression Javier brought variable weather to the State during the week, favorable for most crops. Shower activity occurred intermittently throughout the week, heavy at times, falling mainly on windward, higher elevations. At midweek, muggy conditions prevailed on Oahu, while snow fell on Hawaii in August (above the 11,000 ft. level) for the first time since 1979. Farming schedules delayed, returned to normal near weekend. Temperatures high 60s to low 90s. Rainfall none to 5.70 in.

Days suitable for fieldwork 7.0. Banana, papaya production continued near normal levels. Sweet corn harvesting moderate to heavy with some delay due to rainy weather. Sugar, pineapple harvesting on schedule.

IDAHO: Temperatures above normal throughout State. Hagerman high with 107°. No precipitation.

Days suitable for fieldwork 7. Soil moisture 22% very short, 42% short, 36% adequate. Spring barley harvested 53%, 24% 1991, 42% avg. Oat harvested 63%, 36% 1991, 41% avg. Potatoes 100% closing middles, 57% turning, 12% vines dying/killed, 1% harvested. Potato good. Second cutting alfalfa 85%, 70% 1991, 80% avg.; third cutting 20%, 2% 1991, 5% avg. Dry pea harvest 96%, 45% 1991, 60% avg. Lentil harvest 93%, 30% 1991, 44% avg. Mint 1st cutting 95%, 60% 1991, 72% avg. Onion harvest 11%, 2% 1991, 6% avg. Sweet corn for processing 19% harvested. Peach harvest 80% complete. Plum, prune harvest 22% complete. Irrigation water supplies 22% very poor, 30% poor, 29% fair, 19% good. Activities: 2nd to 3rd cuttings of alfalfa, harvesting of small grains, mint, dry peas, onions, lentils. Pasture, range 58% of normal. Livestock good.

ILLINOIS: After some unusual warmth early, cool weather returned, prevailed throughout the week. Temperatures mid 50s to the higher 70s. Rainfall 0.10 in. or less in most parts of the State, with isolated amounts over one inch in the north.

Days suitable for fieldwork 6.25. Soil moisture 21% short, 76% adequate, 3% surplus. Corn mature 2%, 14% 1991, 6% avg. Soybeans turning yellow 2%, 16% 1991, 7% avg. Alfalfa second cutting 97%, 100% 1991, 100% avg.; third cutting 38%, 56% 1991, 53% avg.; 11% excellent, 70% good, 17% fair, 2% poor. Oats harvested 97%, 100% 1991, 100% avg. Pasture 87% of normal.

INDIANA: Temperatures 2 to 8° below normal. Highs mid 70s to around 80°. Lows low 50s to around 60°. Precipitation none to 0.70 north to less than 0.15 central, south. Base 50 growing degree day accumulations since April 1 are 1,850-2,000 north to 2,200-2,760 south.

Days suitable for fieldwork 5.7. Topsoil 10% short, 82% adequate, 8% surplus. Subsoil 11% short, 82% adequate, 7% surplus. Oats harvested 95%. Alfalfa cut twice 91%. Pasture 93%, 92% last week, 36% 1991. Corn maturity continues to lag behind as soybeans have rebounded to normal.

IOWA: Temperatures 7 to 9° below normal. Extremes 40°; 91°. Rainfall 0.02 to 1.20 in.; average 0.36. Ninth consecutive week with below normal temperatures.

Days suitable for fieldwork 4.2. Topsoil 76% adequate, 24% surplus. Subsoil 88% adequate, 12% surplus. Hay 1% poor, 17% fair, 66% good, 16% excellent. Pasture 14% fair, 64% good, 22% excellent. Corn in milk stage 75%, 84% 1991, 90% avg. Oats harvested 95%, 100% 1991, 100% avg. Winter wheat harvested 100%, 100% 1991, 100% avg. Second cutting alfalfa 95% harvested, 100% 1991, 100% avg.; third cutting 10% harvested, 20% 1991,

35% avg. Second cutting clover 75% harvested, 82% 1991, 90% avg. Cool weather good for livestock producers, permitting good weight gains, forage growth.

KANSAS: Temperatures 2 to 7° below normal over State; average 2° below normal northwest, 6° below normal central, southwest; 5° below normal north central; 7° below normal south central. Remainder of State 4° below normal. Precipitation received all districts. Rainfall 0.33 in. northeast to 2.20 in. south central. Only 4 of 9 districts received less than 1.00 in. of rain.

Days suitable for fieldwork 2.0. Surface moisture 2% short, 54% adequate, 44% surplus. Subsurface moisture 3% short, 89% adequate, 8% surplus. Row crops mostly good to excellent. Row crop progress slightly behind normal because of cool temperatures, lack of sunshine during growing season. Weeds are a problem in many areas. Insect, disease problems are light. Pasture very good. Forage, stockwater adequate over State. Sixty percent alfalfa cut third time. About 5% cut fourth time.

KENTUCKY: Temperatures 2 to 4° below normal; hot early with highs upper 80s, lower 90s, significantly cooler at midweek. Low readings mid 50s to lower 60s. Rainfall generally 0.50 to 0.75 in., some spots received an inch or more. Princeton over 5.00 in.

Days suitable for fieldwork 4.4. Soil moisture 1% very short, 11% short, 69% adequate, 19% surplus. Shortages far west, surplus northern counties. Corn good, excellent, beginning to mature. Burley fair to good; 20% cut, 30% 1991, 17% avg. Dark tobacco 22% cut. Soybeans mostly good, need sunshine. Most crops would benefit from sunshine, warmer temperatures. Pastures good to excellent. Hay crops fair to good, late season hay crops making good growth.

LOUISIANA: Temperatures 3.6° below to 0.6° above normal. Extremes 59°; 99°. Rainfall 0.81 in. north central to 2.86 in. west central.

Days suitable for fieldwork 4.6. Soil moisture 10% short, 80% adequate, 10% surplus. Corn 20% fair, 76% good, 4% excellent; 94% mature, 98% 1991, 90% avg.; 42% harvested, 52% 1991, 36% avg. Hay 57% second cutting, 14% 1991, 22% avg. Peaches 100% harvested, 96% 1991, 98% avg. Rice 55% ripe, 56% 1991, 46% avg. Fertilizing, flooding second crop active. Sorghum 63% ripe, 42% 1991, 33% avg.; 7% harvested, 13% 1991, 11% avg. Soybeans 3% leaves turning color, 0% 1991, 2% avg. Sugarcane 1% fair, 78% good, 21% excellent; 0% planted, 3% 1991, 3% avg. Spraying for bores where needed continued. Sweet potatoes 15% fair, 85% good; 14% harvested, 14% 1991, 11% avg. Livestock 19% fair, 75% good, 6% excellent. Pastures 3% poor, 7% fair, 86% good, 4% excellent. Fertilizing, hay baling active. Vegetables 4% poor, 61% fair, 35% good. Scouting for insects, spraying active in cotton. Aerial blight problems in soybeans continued.

MARYLAND & DELAWARE: MARYLAND: Precipitation 1.13 in. Temperature 74.9°, normal 75.1°. Extremes 51°; 95°.

Days suitable for fieldwork 3.5. Topsoil 7% short, 53% adequate, 40% surplus. Subsoil 27% short, 67% adequate, 6% surplus. Corn mostly good; silking 91%, 97% 1991, 94% avg.; dough stage 52%, 76% 1991, 65% avg.; 20% dent, 44% 1991, 33% avg. Soybeans mostly good; 71% blooming, 83% 1991, 74% avg.; 37% setting pods, 62% 1991, 50% avg. Pastures mostly excellent. Alfalfa third cutting 47%, other hay third cutting 16%, very little hay made due to rain. Fruit harvested: peaches 48%; apples 7%. Vegetable harvest continued when possible.

Outdoor activities reduced to a minimum due to continuing rain.

DELAWARE: Precipitation 1.88 in. Temperature 75.3°, normal 75.4°. Extremes 60°; 92°.

Days suitable for fieldwork 3.5. Topsoil 17% adequate, 83% surplus. Subsoil 17% short, 66% adequate, 17% surplus. Soybeans fair to mostly good; 75% blooming, 82% 1991, 70% avg.; 18% setting pods, 39% 1991, 30% avg. Corn fair to mostly good; 37% dough stage, 78% 1991, 60% avg.; 4% dent, 41% 1991, 31% avg. Sorghum 50% headed. Alfalfa third cutting 75%, other hay third cutting 20%, supplies adequate. Peaches picked 40%; apples 7%. Vegetable, melon harvest slowed due to rain. Pastures good.

MICHIGAN: Temperatures 3 to 8° below normal. Extremes 31°; 93°. Precipitation none to 2.12 in. across State.

Days suitable for fieldwork 5.5. Soil moisture 20% short, 60% adequate, 20% surplus. Oats 20% harvested, 85% 1991, 80% avg.; 2% very poor, 8% poor, 25% fair, 50% good, 15% excellent. Wheat 95% harvested, 100% 1991, 100% avg.; 3% very poor, 7% poor, 25% fair, 45% good, 20% excellent. Pasture 80% of normal. Major activities: Baling straw, cultivating row crops, harvesting fruit, vegetables.

MINNESOTA: Temperatures 3 to 8° below normal. Extremes 38°; 94°. Precipitation 0.04 to 0.42 in. State, 0.45 to 0.80 in. below normal. Greatest weekly total was 0.63 in.

Days suitable for fieldwork 4.8. Topsoil 3% very short, 13% short, 64% adequate, 20% surplus. Spring wheat 89% turning ripe, 99% 1991, 99% avg.; 25% cut/swathed, 89% 1991, 91% avg.; 15% combined, 79% 1991, 85% avg. Oats 99% turning ripe, 99% 1991, 99% avg.; 70% cut/swathed, 99% 1991, 98% avg.; 50% combined, 93% 1991, 94% avg. Barley 95% turning ripe, 99% 1991, 99% avg.; 44% cut/swathed, 99% 1991, 98% avg.; 27% combined, 95% 1991, 95% avg. Corn 98% tasseling, 99% 1991, 99% avg.; 51% in milk, 90% 1991, 90% avg.; 10% in dough, 58% 1991, 60% avg. Soybeans 80% setting pods, 80% 1991, 92% avg. Winter wheat 60% harvested, 98% 1991, 98% avg. Rye 66% harvested, 93% 1991, 96% avg. Spring wheat 1% very poor, 1% poor, 18% fair, 70% good, 10% excellent. Barley 1% very poor, 2% poor, 17% fair, 68% good, 12% excellent. Soybean 1% very poor, 8% poor, 53% fair, 37% good, 1% excellent. Corn 2% very poor, 11% poor, 42% fair, 41% good, 4% excellent.

MISSISSIPPI: Temperatures 78°, 2.5° below normal. Extremes 56°; 97°. Most of the State received above average rainfall. Rainfall 1.52 in., 0.71 above normal. Soil temperatures 84°.

Days suitable for fieldwork 3.1, 6.1 1991, 5.5 avg. Soil moisture 50% adequate, 38% surplus, 12% excessive. Corn dough 98%, 90% 1991, 93% avg.; dented 84%, 75% 1991, 79% avg.; mature 58%, 47% 1991, 42% avg.; harvested 12%, 12% 1991, 8% avg.; silage harvested 45%, 75% 1991, 60% avg.; 5% fair, 68% good, 27% excellent. Cotton 99% setting bolls, 98% 1991, 98% avg.; open bolls 3%, 5% 1991, 8% avg.; 46% fair, 54% good. Rice 85% heading, 48% 1991, 76% avg.; mature 12%, 8% 1991, 9% avg.; harvested 1%, 0% 1991, 0% avg.; 34% fair, 66% good. Sorghum 99% heading, 86% 1991, 94% avg.; 74% coloring, 52% 1991, 63% avg.; 36% mature, 42% 1991, 27% avg.; harvested 2%, 6% 1991, 4% avg.; silage harvested 40%, 44% 1991, 41% avg.; 22% fair, 66% good, 12% excellent. Soybeans 85% blooming, 69% 1991, 74% avg.; 62% podding, 37% 1991, 48% avg.; coloring 6%, 5% 1991, 5% avg.; 10% fair, 76% good, 14% excellent. Sweet potatoes harvested 5% 20% 1991, 9% avg. Watermelons 96% harvested, 90% 1991, 86% avg. Hay harvested 80%, 77% 1991, 73% avg. Peaches 98% harvested, 100% 1991, 98% avg.; 16% very poor, 10% poor, 56% fair, 18% good. Pecans 20% very poor, 34% poor, 33% fair, 13% good. Livestock 6%

fair, 82% good, 12% excellent. Pasture 93% of normal. Activities: harvesting hay, insect control.

MISSOURI: Temperatures 4 to 8° below normal. Rainfall 0.48 in., ranging from virtually none northwestern, north central, west central, southwestern districts, to 1.48 in. northeast.

Days suitable for fieldwork 4.6. Topsoil 5% short, 82% adequate, 13% surplus. Corn development behind normal in all areas. Corn in dent stage varies from around 25% west central, northern districts to 75% southeast. Warmer weather is needed for some soybeans, sorghum in lowland fields where excess moisture slowed growth, development. Less than 75% sorghum headed, northwestern, northeastern, southwestern districts, all headed south central, southeast. Alfalfa second cutting 95%, 100% 1991, 99% avg. Third cutting 37%, 69% 1991, 72% avg. Other hay cut 92%, 100% 1991, 99% avg. Above normal summer rains helping late hay cuttings. Pasture 1% very poor, 2% poor, 16% fair, 59% good, 22% excellent.

MONTANA: Temperatures near normal to 3° above normal. Scattered, light precipitation 0.10 in. central, northeast.

Days suitable for fieldwork 7.0. Topsoil 42% short, 58% adequate. Subsoil 43% short, 56% adequate, 1% surplus. Winter wheat 42% harvested, 52% 1991, 75% avg. Barley 82% turning, 99% 1991, 99% avg.; 4% very poor, 13% poor, 27% fair, 49% good, 7% excellent. Oats 78% turning, 96% 1991, 96% avg.; 2% very poor, 8% poor, 25% fair, 52% good, 13% excellent. Sugarbeets 2% poor, 10% fair, 71% good, 17% excellent. Pasture, range feed 84%, an increase of 3 points from last week. Second cutting alfalfa hay 54% harvested, 50% 1991, 62% avg.

NEBRASKA: Temperatures 5 to 9° below normal. Scattered precipitation 0.10 in. northwest to over 1.25 in. central. Severe weather again last week brought crop damaging hail, winds to many areas of the State. Row crops 1 to 2 weeks behind normal development. Weed control hampered by wet field conditions.

Days suitable for fieldwork 4.8. Topsoil 3% short, 72% adequate, 25% surplus. Subsoil 92% adequate, 8% surplus. Corn 3% poor, 23% fair, 48% good, 26% excellent; 40% dough, 80% 1991, 70% avg.; 4% dent, 30% 1991, 23% avg. Soybean 1% poor, 8% fair, 70% good, 21% excellent; 73% setting pods, 83% 1991, 79% avg. Sorghum 3% poor, 17% fair, 70% good, 10% excellent; 75% headed, 84% 1991, 83% avg.; 1% coloring, 18% 1991, 15% avg. Alfalfa 1% poor, 25% fair, 62% good, 11% excellent; 31% third cutting, 42% 1991, 54% avg. Pasture, range 99% of normal.

NEVADA: Strong high pressure system brought record high temperatures over most of State. As week progressed a system brought some moisture to south, along the eastern Sierra. Thunderstorms brought some locally heavy rains, but were not widespread. Northwest was only area reporting at least 0.10 in. precipitation. Extremes 43°; 117°.

Alfalfa harvest continues in areas where second or third cuttings are possible. Small grain, garlic harvest winding down. Alfalfa seed harvest started in Lovelock area. Cattle, sheep generally good.

NEW ENGLAND: Precipitation none to 1.06 in. north; 0.65 to 1.76 in. Massachusetts, 0.90 to 4.50 in. Rhode Island, Connecticut. Temperatures low to mid 60s north, low 60s to low 70s south; 1° to 6° below normal. Maximum temperatures high 70s to mid 80s north, low 80s to low 90s south; minimum temperatures high 30s to low 50s north, mid 40s to low 60s south.

Days suitable for fieldwork 5. Soil moisture 3% short, 63% adequate, 34% surplus. Available grazing 12% short, 79% adequate, 9% surplus. Fieldwork progress 6 days behind schedule. Maine potatoes good. Rhode Island potatoes 9% harvested, 9% 1991, 9% avg.; good. Connecticut River Valley potatoes 15% harvested, 12% 1991, 5% avg.; good. Maine oats good. Field corn good. Sweet corn 31% harvested, 60% 1991, 46% avg.; good. Second cut hay 53% harvested, 70% 1991, 60% avg.; good. Third cut hay 9% harvested, 23% 1991, 17% avg.; good. Shade tobacco 48% harvested; good. Outdoor tobacco 43% harvested; good. Apple color good, size medium; good. Peaches 28% harvested, size medium; good. Pear 6% harvested, size medium; good. Cranberry good to excellent. Maine wild blueberry 30% harvested, size medium; good to excellent. Farm activities: Spraying for insects, harvesting vegetables, sweet corn, tomatoes, peaches, blueberries, haying.

NEW JERSEY: Temperatures much below normal. Extremes 52°; 95°. Rainfall 1.11 in. north, 2.79 in. central, 2.68 in. south. Heaviest 24-hour total 2.55 in. on 15th, 16th. Estimated soil moisture, in percent field capacity, averaged 85% north, 87% central, 72% south. Four-inch soil temperatures 67° north, 71° central, 72° south.

Soil moisture content adequate to surplus. Dandelion, dill, basil, broccoli rabe, collards, kale, beets, cabbage, leeks, spinach, parsley, turnips in light volume. Beans, cucumbers, cantaloupes, watermelon, okra, green onions in moderate supply. Eggplant, peppers, squash, tomatoes, sweet corn, peaches in good volume. Peaches mid season varieties, apples early varieties being picked. Corn in dent, soybeans showing pod setting, rye, wheat, oat combining finishing in southern areas. Rain delaying hay, silage cutting. Pastures good after substantial rain.

NEW MEXICO: Temperatures about 2° below normal in the eastern plains, very close to normal elsewhere. Extremes 42°; 102°. Most areas received some rainfall; week was characterized by localized heavy rainfall. Highest amounts reached 4.29 in., several areas over 2.00 in.

Days suitable for fieldwork 6.0. Soil moisture 28% short, 63% adequate, 9% surplus. Crop conditions: Alfalfa 18% fair, 82% good; some harvest hampered by rain. Corn, 8% fair, 84% good, 8% excellent; silage harvest underway. Onions 33% fair, 67% good, harvest starting to decline. Chile 25% fair, 70% good, 5% excellent; harvest active. Apples 29% fair, 71% good. Pecans 33% fair, 67% good, some areas reporting a heavy drop. Cattle, sheep fair to excellent. Range, pasture 94% of normal.

NEW YORK: Numerous showers, thunderstorms eastern half on 9th. Mild on 10th with few showers in western half. Warmest on 11th with much of Hudson Valley, Long Island in 80s to lower 90s. Thunderstorms hit southeast due to muggy air. Cold front on 12th dropped temperatures 5 to 10° compared to day before. Temperatures on 13th in 60s upstate, 70s downstate with generally light precipitation. Stationary front rest of week kept temperatures 65 to 75° range giving light precipitation to eastern areas.

Days suitable for fieldwork 3.0. Soil moisture mostly surplus. Pasture 90% of normal. Corn poor to fair in western half; fair to good eastern half. Hay mostly fair. Alfalfa second cutting 66% complete, 89% 1991, 75% avg. Drier weather needed to advance growth. Oats slow to mature 20% harvested, 81% 1991, 58% avg. Wheat harvest 82% complete, 99% 1991, 99% avg. Apples show good development; some concern over fruit size. Vegetable crops damaged by excessive summer rainfall, below normal temperatures.

NORTH CAROLINA: Temperatures 2° below normal to 1° above normal. Precipitation 6.62 in. Clinton to 0.04 in. Elkville.

Days suitable for fieldwork 4.9. Soil moisture 4% very short, 20% short, 58% adequate, 18% surplus. Crop condition: Pasture 1% very poor, 3% poor, 41% fair, 51% good 4% excellent. Tobacco 3% poor, 37% fair, 57% good, 3% excellent. Corn 7% poor; 41% fair, 49% good, 3% excellent. Cotton 6% poor, 48% fair, 43% good, 3% excellent. Peanuts 18% fair, 82% good. Soybeans 6% poor, 37% fair, 57% good. Hay 2% very poor, 2% poor, 42% fair, 52% good, 2% excellent. Irish potatoes 46% fair, 54% good; Sweetpotatoes 28% fair, 68% good, 4% excellent. Apples 17% poor 33% fair, 44% good. Peaches 23% very poor, 15% poor, 54% fair, 8% good. Sorghum 10% poor, 35% fair, 55% good. Truck crops 3% poor, 46% fair, 51% good. Cotton squared 94%, 100% 1991, 100% avg.; setting bolls 86%, 93% 1991, 91% avg. Corn soft dough 77%, 95% 1991, 89% avg.; dented 70%, 82% 1991, 73% avg.; mature 39%, 51% 1991, 40% avg. Soybeans flowering 56%, 72% 1991, 62% avg.; setting pods 35%, 49% 1991, 35% avg. Flue-cured tobacco harvested 48%, 45% 1991, 40% avg. Irish potatoes harvested 99%, 100% 1991, 99% avg. Peaches harvested 86%, 94% 1991, 89% avg. Hay, roughage supplies 1% short, 94% adequate, 5% surplus. Hay second cutting 74%. Hay third cutting 33%. Major activities: Topping, harvesting, curing, marketing tobacco. Other activities: Harvesting vegetables; harvesting hay; cutting corn for silage; spraying cotton, peanuts; tending livestock; equipment repair; general farm maintenance.

NORTH DAKOTA: Mild, dry across State. Temperatures 5° below normal southeast to 1° above normal northwest. Extremes 34° southwest; 100° north central, central. Precipitation 0.01 in. southwest to 0.06 in. northeast.

Days suitable for fieldwork 6.9. Soil moisture supplies declined from last week. Topsoil 16% very short, 65% short, 19% adequate. Subsoil 15% very short, 53% short, 32% adequate. Small grain development, harvest continued far behind 1991 and average. Spring wheat 2% poor, 20% fair, 70% good, 8% excellent; 10% combined, 65% 1991, 66% avg. Durum 28% fair, 62% good, 10% excellent; 3% combined, 37% 1991, 46% avg. Barley 1% poor, 20% fair, 61% good, 18% excellent; 25% combined, 84% 1991, 85% avg. Oats 37% fair, 62% good, 1% excellent; 18% combined, 73% 1991, 75% avg. Winter wheat 4% poor, 31% fair, 64% good, 1% excellent; 62% combined, 98% 1991, 98% avg. Late season crop development also far behind last year and average. Sugarbeets 100% good. Corn for silage 9% poor, 38% fair, 53% good; none cut. Corn for grain 4% poor, 24% fair, 72% good; 2% denting to dented, 12% 1991, 13% avg. Flax 2% poor, 25% fair, 64% good, 9% excellent; 1% swathed or combined, 13% 1991, 11% avg. Potatoes 100% good; 4% vines killed or dug, 14% 1991, 10% avg. Soybeans 3% fair, 97% good; 1% lower leaves yellowing and beyond, 30% 1991, 24% avg. Dry beans 22% fair, 78% good; 4% podded/lower leaves yellowing and beyond, 67% 1991, 43% avg. Sunflower 4% poor, 35% fair, 61% good; 1% ray flowers dried or dropped and beyond, 24% last year, 26% avg. Range, pasture 68% of normal. Hay 65% of normal. Alfalfa hay second cutting 74% complete, other hay first cutting 90% complete. Stockwater supplies 7% very short, 31% short, 62% adequate.

OHIO: Started out with highs in the 80s to low 90s, but cool weather returned, continuing to delay crop development. Temperatures 2 to 7° below normal with average highs in the 70s, average lows in the 50s. Cool high pressure dropped lows into the 40s over parts of northern areas 16th night. Most places saw some rain

during the week although amounts were generally below normal. Rainfall less than 0.25 in. to isolated amounts over 2.00 in. with most of the precipitation falling on 15th.

Days suitable for fieldwork 5.1. Topsoil 2% short, 78% adequate, 20% surplus. Hay 1% very poor, 12% poor, 27% fair, 51% good, 9% excellent. Pasture 5% poor, 22% fair, 59% good, 14% excellent. Remaining oats 4% very poor, 9% poor, 35% fair, 46% good, 6% excellent. Warmer, slightly drier weather has helped farmers to begin catching up on an otherwise well behind normal hay harvest. Condition of hay has also improved. Cool, damp weather State had throughout July, into August caused problems in a wide variety of crops including tobacco, potatoes, tomatoes, soybeans.

OKLAHOMA: Temperatures 10° below normal north central to 7 below normal Panhandle. Rainfall 0.08 in. southeast to 1.27 in. Panhandle.

Days suitable for fieldwork 4.7. Topsoil 7% short, 80% adequate, 13% surplus. Subsoil 100% adequate. Wheat 94% plowed, 98% 1991, 97% avg.; 14% seedbed prepared, 77% 1991, 32% avg. Cotton 16% very poor, 8% poor, 20% fair, 56% good; 100% squaring, 98% 1991, 96% avg.; 66% setting bolls, 93% 1991, 77% avg.; 2% open bolls, 0% 1991, 1% avg. Sorghum 1% poor, 8% fair, 81% good, 10% excellent; 51% headed, 67% 1991, 62% avg.; 15% milk to soft, 26% 1991, 27% avg.; 2% mature, 11% 1991, 3% avg. Corn 96% milk to soft, 97% 1991, 91% avg.; 14% mature, 24% 1991, 26% avg. Soybeans 53% flowering, 66% 1991, 68% avg.; 31% setting pods, 31% 1991, 43% avg. Peanuts 97% pegging, 91% 1991, 97% avg.; 81% setting pods, 76% 1991, 70% avg. Pastures 103%. Cattle good; marketings average, prices mostly higher.

OREGON: Temperatures above normal statewide, except southern coast, where fog, low clouds held temperatures to normal. Precipitation almost non-existent statewide; maximum rainfall Lakeview 0.50 in.

Soil moisture 95% short, 5% adequate. Winter wheat 96% harvested. Barley 73% harvested. Sprout damage in wheat, near Pendleton. Grass seed, clover seed, hay, mint harvest continues. Some grass seed field burning; western areas. Hops harvest underway, Willamette Valley. Field prep for fall seeding in cereal grains, summer fallow acreage, Columbian Basin. Apples, peach, Evergreen blackberry harvest continues; Willamette Valley. Some apple sunburning, Willamette Valley. Strawberry plantings still look good, need rain; northwestern areas. Pear harvest progressing well, Hood River Valley, Willamette Valley, Medford areas. Gala apple harvest one week away, lower Hood River Valley. Hazelnut crop rapidly maturing, some dropping. Cranberry good to excellent, expected harvest date September 14th; southern coast. Early fresh market potato, onion harvest continues, Hermiston-Boardman district, Malheur County. Processing sweet corn harvest continues, excellent yields were irrigated. Onions, green beans, broccoli, many other vegetables being harvested, yields being reduced by hot weather; Willamette Valley, Hermiston watermelons harvest in full swing, excellent conditions for the melons. Livestock continued good. Stockwater continues to be scarce. Hay and protein supplements being feed. Extreme fire conditions, statewide. Cattle being moved off federal lands, south central areas. Range, pasture condition 46% of normal.

PENNSYLVANIA: Temperature 73°, 2° below normal. Extremes 45°; 93°. Precipitation 0.61 in., 0.24 in. below normal.

Days suitable for fieldwork 4. Soil moisture 8% short, 69% adequate, 23% surplus. Corn 83% silk, 91% 1991, 82% avg.; 19% dough, 53% 1991, 35% avg.; 1% dent, 14% 1991, 7% avg.; 0% mature, 1% 1991, 0%

avg.; 0% harvested, 0% 1991, 0% avg. Ensilage corn harvested 1% complete, 7% 1991; 1% very poor, 4% poor, 15% fair, 47% good, 33% excellent. Soybean 4% poor, 16% fair, 48% good, 32% excellent. Wheat harvest 87% complete, 100% 1991; planted 3% complete, 2% 1991. Oat harvest 59% complete, 93% 1991. Barley harvest 92% complete, 100% 1991; planted 6% complete, 1% 1991. Tobacco harvest 4% complete, 21% 1991. Potato harvest 12% complete, 21% 1991. Second cutting alfalfa 71% complete, 91% 1991. Third cutting alfalfa 22% complete, 44% 1991. Second cutting clover timothy 48% complete, 68% 1991. Quality of hay made 32% poor, 48% fair, 20% good. Feed from pastures 2% very poor, 5% poor, 48% fair, 45% good. Apple harvest 9% complete, 20% 1991. Peach 41% complete, 63% 1991. Grapes harvest 1% complete, 15% 1991. Fall plowing 6% complete, 15% 1991. Activities: Hauling manure; maintaining machinery; cutting; baling hay; baling straw; combining; fruit, vegetable harvesting; fixing fence; caring for livestock.

PUERTO RICO: Rainfall of 1.08 in. was 0.52 in. below normal. Highest weekly rainfall was 4.60 in. at Cerro Maravilla, 3.16 in. at Pico del Este. Highest 24-hour total was 3.15 in. at Cerro Maravilla on the 11th. Divisional temperatures 80 to 81° on the coasts and 75 to 77° interior, ranging from 66.6° at Pico del Este to 83.4° at Guayama. Extremes 60°; 94°.

SOUTH CAROLINA: Temperatures across the State 2° below normal north, central to 1° above normal south. Rainfall 2.70 in. statewide.

Days suitable for fieldwork 4.2. Soil moisture 2% very short, 16% short, 75% adequate, 7% surplus. Tobacco fair; 68% harvested, 72% 1991, 62% avg.; 7% stalks destroyed, 9% 1991, 4% avg. Corn fair to good; 81% mature, 87% 1991, 71% avg.; 17% harvested, 17% 1991, 16% avg. Cotton fair; 96% setting bolls, 99% 1991, 93% avg. Soybeans fair; 73% blooming, 76% 1991, 69% avg.; 38% setting pods, 39% 1991, 33% avg; 1% leaves turning, 2% 1991, 1% avg. Peaches poor to fair; 88% harvested, 88% 1991, 88% avg. Watermelons fair; 95% harvested, 90% 1991, 90% avg. Cantaloupes fair; 86% harvested, 87% 1991, 87% avg. Cucumbers fair to good; 91% harvested, 94% 1991. Apples fair to good; 7% harvested, 12% 1991, 8% avg. Grapes fair to good. Fall hay fair to good; 47% harvested, 38% 1991, 38% avg. Peanuts fair to good. Sorghum fair; 11% harvested, 16% 1991, 15% avg. Pastures fair to good. Rainfall improved soil moisture. Insect pressure reported in cotton.

SOUTH DAKOTA: Temperatures 3 to 8° below normal. Precipitation generally under 0.10 in. Larger amounts in the southeast. Maximum 0.97 in. Growing degree days well below normal for year, ranging from 200 to 400 below normal.

Days suitable for fieldwork 4.5. Topsoil 2% very short, 11% short, 70% adequate, 17% surplus. Subsoil 3% very short, 17% short, 68% adequate, 12% surplus. Rye 3% very poor, 9% poor, 40% fair, 42% good, 6% excellent. Winter wheat 4% very poor, 29% poor, 35% fair, 31% good 1% excellent. Barley 4% poor, 16% fair, 75% good, 5% excellent. Oats 3% poor, 22% fair, 68% good, 7% excellent. Flax 1% poor, 24% fair, 58% good, 17% excellent. Sunflowers 1% poor, 23% fair, 53% good, 23% excellent. Winter rye 76% harvested, 100% 1991, 100% avg. Barley 47% harvested, 98% 1991, 99% avg. Oats 55% harvested, 98% 1991, 99% avg. Winter wheat 75% harvested, 100% 1991, 100% normal. All crop progress remains behind normal due to wet conditions. Livestock 2% fair, 75% good, 23% excellent. Pasture 93% of normal.

TENNESSEE: Temperatures well below normal. Precipitation widely scattered.

Days suitable for fieldwork 3.9. Soil moisture 1% very short, 12% short, 80% adequate, 7% surplus. Corn 88% dough, 72% 1991, 78% avg.; 51% dent, 47% 1991, 51% avg.; 8% mature, 11% 1991, 11% avg.; 3% fair, 54% good, 43% excellent. Cotton 2% open bolls, 2% 1991, 4% avg.; 19% fair, 73% good, 8% excellent. Sorghum 97% headed, 76% 1991, 87% avg.; 36% turning color, 22% 1991, 39% avg.; 4% mature, 5% 1991, 8% avg.; 5% fair, 74% good, 21% excellent. Soybeans 82% blooming, 69% 1991, 71% avg.; 49% setting pods, 25% 1991, 41% avg.; 9% fair, 79% good, 12% excellent. Tobacco 79% topped, 75% 1991, 68% avg.; 27% fair, 69% good, 4% excellent. Burley 16% harvested, 21% 1991, 15% avg. Dark air-cured 11% harvested, 9% 1991, 13% avg. Dark fire-cured 13% harvested, 13% 1991, 13% avg. Pastures 2% poor, 7% fair, 74% good, 17% excellent. Cattle 5% fair, 85% good, 10% excellent.

TEXAS: Rainfall shifted southward ahead of slow moving cool front as week progressed. Heaviest rains occurred in East, South Texas. Rain near or below normal in West, Northeast Texas, above normal in South Texas. Northwest flow allowed strong cool front to push through the State. The front reached Lower Valley, a notable weather event for August. All districts below normal temperatures. Temperatures 5 to 10° cooler than normal in parts of West, North Texas.

Crops: Corn harvest active with few delays last week. Some fields in Plains had final watering before harvest. Insect problems active. In Central Texas fields dried down with some fields harvested. Cooler temperatures slowed cotton maturity. In Trans-Pecos, rust problems in few fields. Sprayed for boll weevils, aphids around State. Warmer temperatures needed to aid fruit development. On Plains, producers irrigated fields missed by showers early in week. Rice harvested with minimal delays along Upper Coast. Yields excellent to poor. Grain sorghum harvest progressed. Harvest activities winding down in southern part of State. Irrigation practices active on Plains. Greenbugs increased. Peanuts improved with few insect problems on Plains. Irrigation practices steady in Hill Country, Low Plains. Disease problems with cooler weather in Cross Timbers. Statewide peanut 85% normal compared with 83% 1991. Soybeans progressed on Plains. Harvest activities underway in Blacklands. In Central Texas many fields set pods with moist conditions.

Commercial Vegetables: In East Texas, sweet potato harvest underway. Tomato, pepper harvest continued. On High Plains, potato harvest winding down. Onions, cucumbers being harvested. In Trans-Pecos, spider mites increased in some areas. Onion harvest continued. In Rio Grande Valley, watermelons planted. Light showers generated relief in scattered areas. Pecan trees progressed with showers last week. Nut drop in many areas resulted from scab infestation. Spraying insects, diseases continued.

Range and Livestock: Ranges, pastures dried down due to hot, dry conditions; however, scattered showers helped some areas. Adequate moisture needed for continued new growth. Livestock improved where abundant forage available. Cattle shipped to feed yards.

UTAH: Temperature maximums 5° above normal, minimums 4° above normal. Precipitation pattern was erratic: none reported in Western, Dixie, Uinta Basin divisions; a moderate amount reported in the south central division, light elsewhere.

Days suitable for fieldwork 6.9. Soil moisture 95% short, 5% adequate. Irrigation water 44% very short, 49% short, 7% adequate. Stockwater 33% very short, 42% short, 25% adequate. Winter wheat harvested 93%, 89% 1991, 92% avg. Spring wheat harvested 86%, 76% 1991, 76% avg. Barley harvested 89%, 70% 1991, 78% avg. Oats: ripe 75%,

67% 1991; harvested for hay or silage 85%, 66% 1991, 82% avg.; harvested for grain 53%, 32% 1991, 47% avg. Corn tasseling 94%, 75% 1991. Field corn in dough 41%, 6% 1991, 28% avg. Alfalfa 3rd cutting 35%, 8% 1991. Other hay cut 88%, 90% 1991. Hay, roughage supplies 19% short, 60% adequate, 21% surplus. Potatoes harvested 7% 1991. Peaches picked 44%. Apples 10% picked. Pears 16% picked. Pasture, range poor to fair.

VIRGINIA: Temperatures near normal while precipitation was much above normal. Extremes 52°; 96°. Precipitation was slightly above normal in the far northern, western parts of the State, 4.00 to 7.00 in. above normal in the southeast.

Days suitable for fieldwork 4.3. Topsoil 13% short, 64% adequate, 23% surplus. Pasture 5% poor, 22% fair, 55% good, 18% excellent. Alfalfa 3% poor, 15% fair, 55% good, 27% excellent. Other hay 2% poor, 29% fair, 47% good, 22% excellent. Cutting some hay. Corn silked 92%, 92% 1991, 90% avg.; dough stage 54%, 70% 1991, 60% avg.; dented 31%, 49% 1991, 41% avg.; mature 12%, 28% 1991, 18% avg.; silage harvested 10%, 10% 1991, 5% avg. Corn 3% poor, 32% fair, 44% good, 21% excellent. Soybeans 60% bloomed, 76% 1991, 68% avg.; setting pods 38%, 47% 1991, 45% avg.; 28% fair, 65% good, 7% excellent. Peanuts 40% fair and 60% good. Flue tobacco 28% harvested, 35% 1991, 23% avg. Fire tobacco 9% harvested, 20% 1991, 20% avg. Sun tobacco 16% harvested, 20% 1991, 16% avg. Burley tobacco 2% harvested, 7% 1991, 2% avg. Tobacco 54% fair, 37% good, 9% excellent. Topping, suckering, harvesting tobacco very active. Potato harvest virtually complete. Peach harvest about 52% completed, the summer apple harvest continued. Apple 6% poor, 19% fair, 63% good, 12% excellent. Livestock mostly good. Harvesting tomatoes, cucumbers, peppers.

WASHINGTON: Temperatures 1 to 7° above normal west; 5° below to 11° above normal, east. Rainfall none to 0.18 in. west; none to 0.04 in. east.

Days suitable for fieldwork 6.9. Soil moisture 76% short, 24% adequate. Hay, other roughage 9% short, 74% adequate, 17% surplus. Range, pasture 83% poor, 17% fair. Winter wheat 93% harvested, 49% 1991, 75% avg. Barley 84% harvested, 33% 1991, 65% avg. Alfalfa hay second cut 96% complete, 89% 1991, 94% avg. Spring wheat 85% harvested, 55% 1991, 60% avg. Dry peas 91% harvested, 67% 1991, 81% avg. Potatoes 15% harvested, 10% 1991, 12% avg. Corn silage 17% harvested, 1% 1991, 1% avg. Small grain harvest complete some areas, progressing ahead of schedule remaining locations. Producers began post harvest weed control. Summer fallowed land prepared for seeding. Bartlett pear harvest neared completion Chelan, Okanogan areas, d'Anjou harvest expected shortly. Gala apple harvest continued, picking to accelerate soon. Blueberry harvest winding down Cowlitz county; plums fully ripe, blackberries picked Mason county. Range, pasture conditions worsen; hot, dry weather has created fire dangers many locations.

WEST VIRGINIA: Temperature 70°. Extremes 52°; 94°. Precipitation 0.95 in.

Days suitable for fieldwork 3.4. Soil moisture 75% adequate, 25% surplus. Tobacco, 97% fair, 3% good; 72% topped. Gardens, good. Oats, 2% fair, 98% good; 100% ripe, 59% harvested. Wheat, fair; 90% harvested. Hay, 5% fair, 78% good, 17% excellent; 51% second cut, 19% third cut. Apples good. Peaches good. Corn, 55% good, 45% excellent; 85% silked, 48% dough stage. Pastures, 71% good, 29% excellent; 94% of normal. Cattle good. Sheep good. Soybeans, 32% good, 68% excellent; 48% blooming. Activities: general maintenance, cutting hay, clipping pastures, gardening, hay, wheat harvest, topping tobacco, harvesting peaches, apples.

WISCONSIN: Temperature 61°; 6° below normal. Extremes 30°; 90°. Precipitation trace to 0.70 in. Warmer weather needed to help the crop growth.

Days suitable for fieldwork 4.7. Soil moisture 40% short, 58% adequate, 2% surplus. Pasture 75% of normal, 78% 1991, 68% avg. General condition of crops 1% very poor, 3% poor, 38% fair, 56% good, 2% excellent. Oats 1% very poor, 8% poor, 40% fair, 45% good, 6% excellent; harvested 25%, 80% 1991, 78% avg. Corn 3% very poor, 4% poor, 29% fair, 58% good, 6% excellent; silked 76% this year but no average available. Corn 12% dough stage or beyond, 59% 1991, 45% avg.; 3% in dent stage or beyond, 16% 1991, 12% avg. Second crop hay 77% harvested, 87% 1991, 84% avg. Third crop hay 11% harvested, 18% 1991, 15% avg. Soybean 1% poor, 23% fair, 64% good and 12% excellent. Winter wheat 56% harvested this year but no average available.

WYOMING: Temperatures 1 to 2° above normal across the entire State. Southwest corner was the warmest at 8° above normal. Precipitation amounts were below normal over the State. Only the extreme southeast corner had small traces of precipitation.

Days suitable for fieldwork 6.8. Topsoil 62% short, 38% adequate. Spring wheat 24% turning color, 13% 1991, 8% avg.; 44% mature, 47% 1991, 35% avg.; 32% harvested, 40% 1991, 59% avg. Oats 25% turning color, 19% 1991, 18% avg.; 48% mature, 42% 1991, 42% avg.; 27% harvested, 39% 1991, 42% avg. Barley 6% turning color, 14% 1991, 9% avg.; 32% mature, 29% 1991, 28% avg.; 62% harvested, 57% 1991, 65% avg. Winter wheat 5% turning color; 19% mature, 8% 1991, 7% avg.; 76% harvested, 92% 1991, 93% avg. Dry beans 11% not setting pods; 89% setting pods, 97% 1991, 89% avg.; 17% turning color, 11% 1991, 13% avg. Corn 2% not tasseled; 98% tasseled, 98% 1991, 93% avg.; 67% silked, 79% 1991, 75% avg.; 32% milk, 35% 1991, 52% avg.; 10% dough, 5% 1991, 18% avg. Alfalfa 49% of second cutting completed, 55% 1991, 58% avg. Other hay 78% of acreage harvested, 83% 1991, 87% avg. No 1993 winter wheat planted. Barley mostly good. Row crops varied in condition across the State with most being fair to good. Some dry beans southeast very poor. Alfalfa fair to mostly good. Ranges, pastures good to excellent. Calf weights compared to last year 25% lighter, 54% no difference, 21% heavier. Lamb weights compared to last year 20% lighter, 59% no difference, 21% heavier.

International Weather and Crop Summary HIGHLIGHTS

August 9 - 15, 1992

FSU: In western areas, dry weather continues to help small grain harvest activities, but adversely impacts summer crops in the filling stage. In the New Lands, favorable weather covers spring grains.

EUROPE: Wet weather covers parts of western Europe. Unfavorably hot, dry weather continues in the east.

SOUTH ASIA: Showers continue to improve prospects for rain-fed grains, oilseeds, and cotton.

EASTERN ASIA: Rain favors summer crops, but delays northeastern spring wheat harvesting.

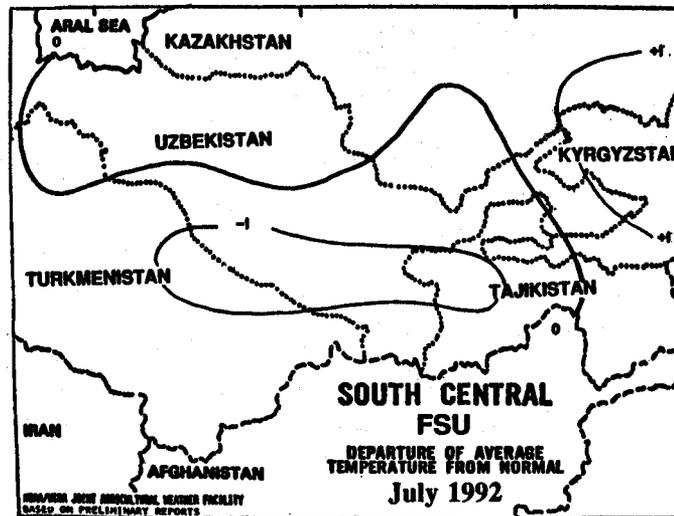
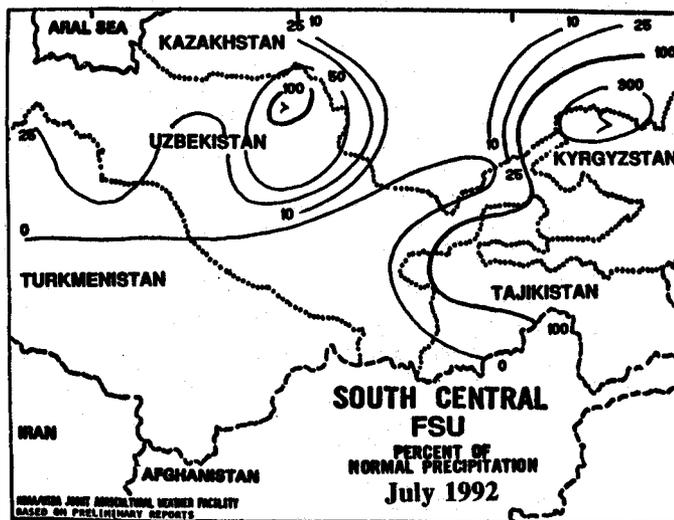
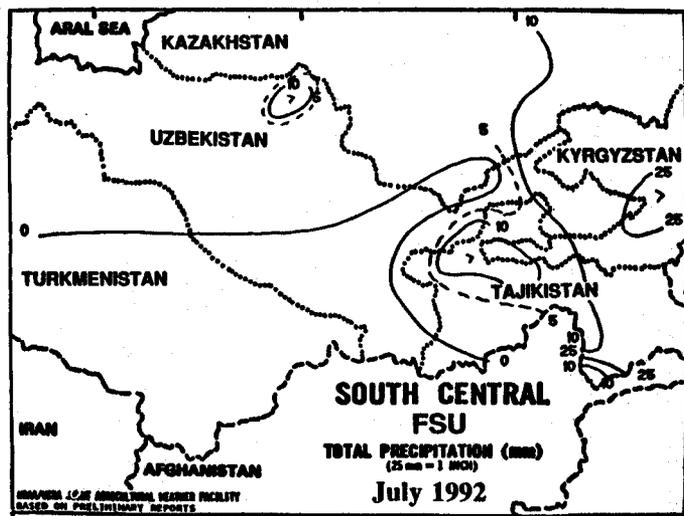
SOUTHEAST ASIA: Showers taper off over central Thailand's rice and corn areas.

AUSTRALIA: Dryness returns to the eastern winter grain region, while rain aids vegetative winter grains elsewhere.

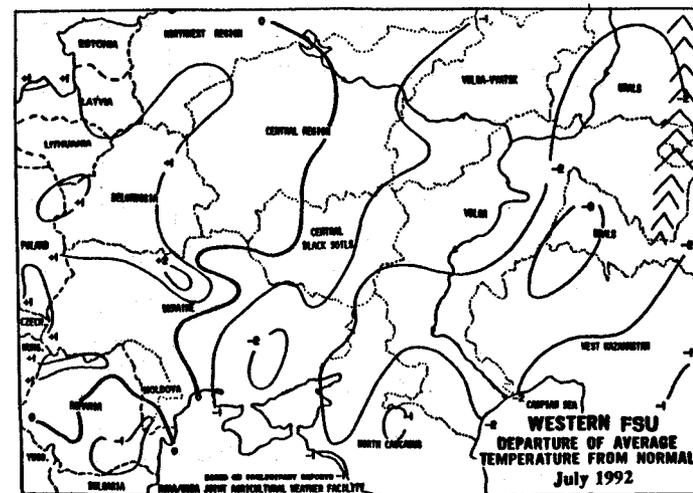
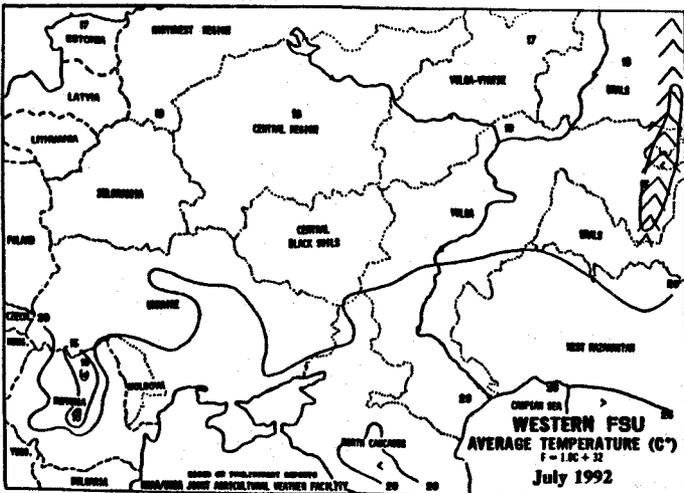
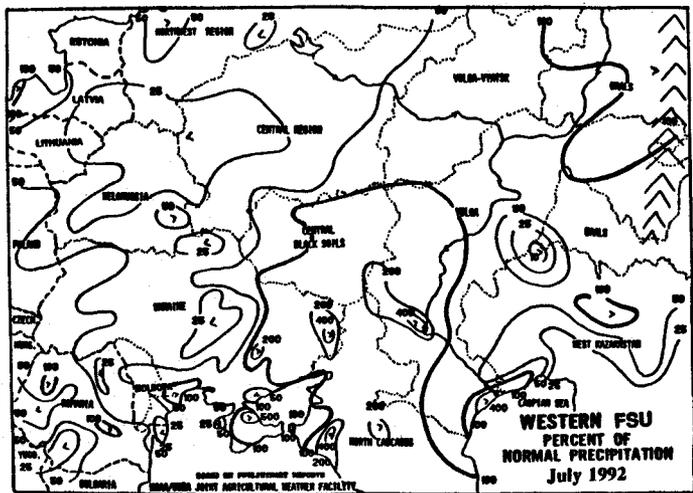
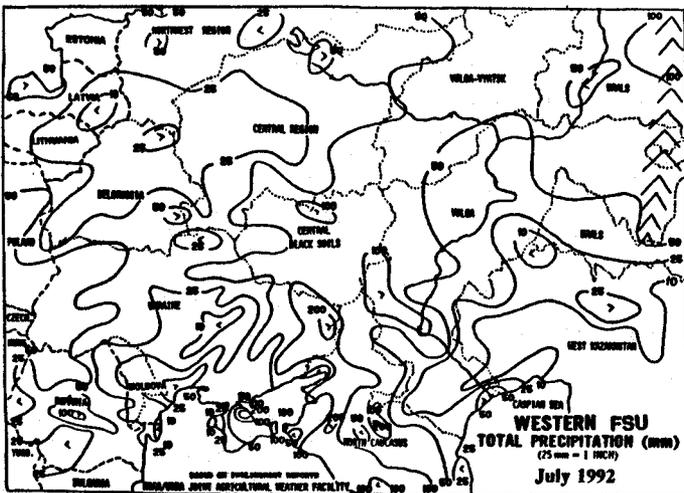
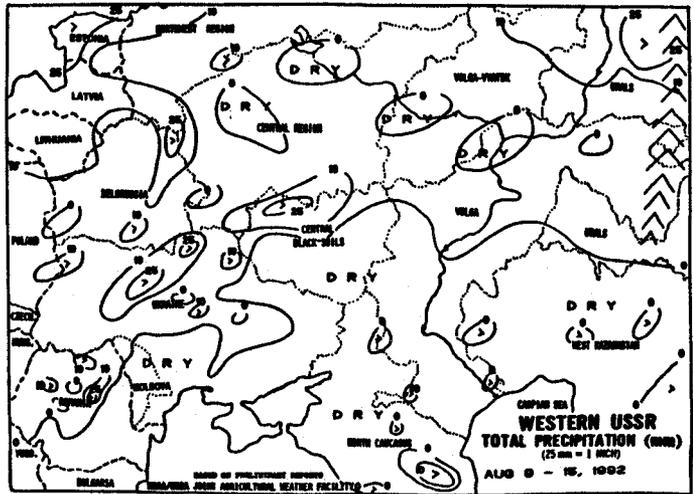
SOUTH AMERICA: Dryness continues across Argentina, where topsoil moisture is limited in the western wheat areas.

MEXICO: Favorable growing conditions exist for reproductive to filling corn.

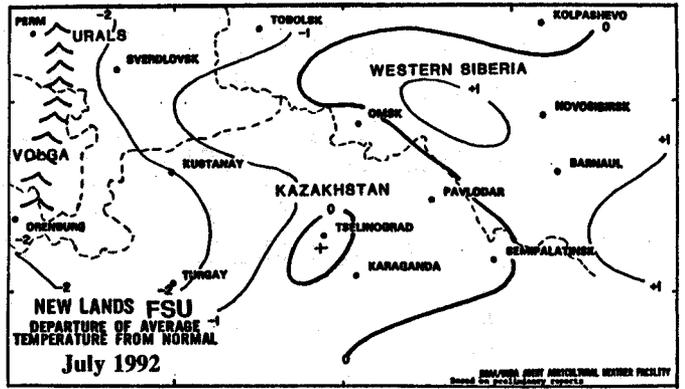
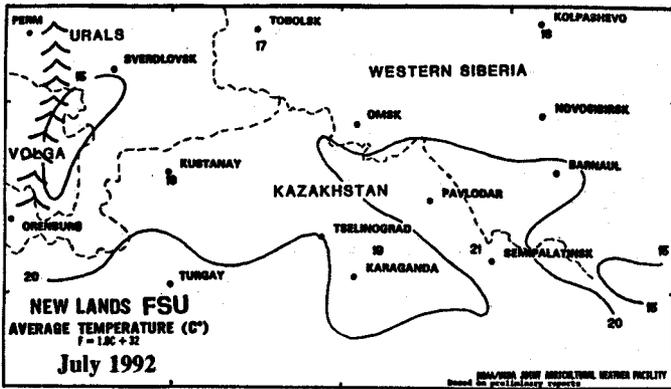
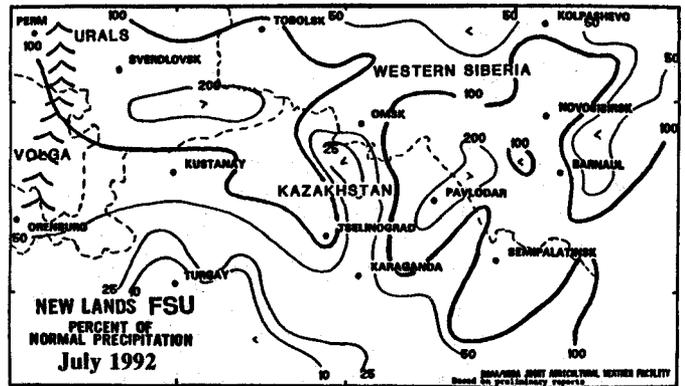
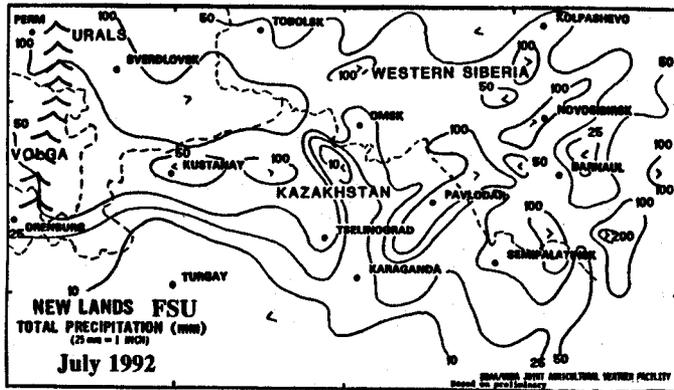
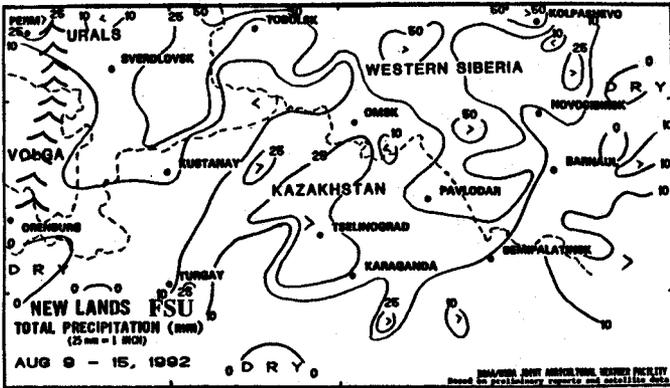
CANADA: Drier weather aids crop growth. Cool weather persists in the eastern Prairies.



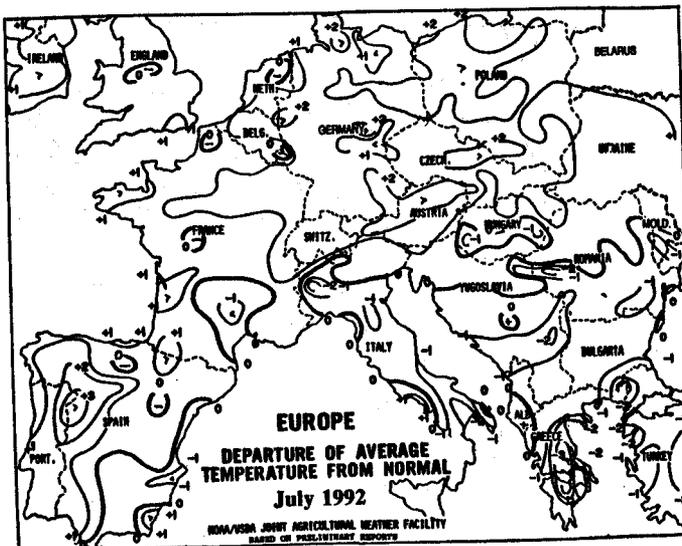
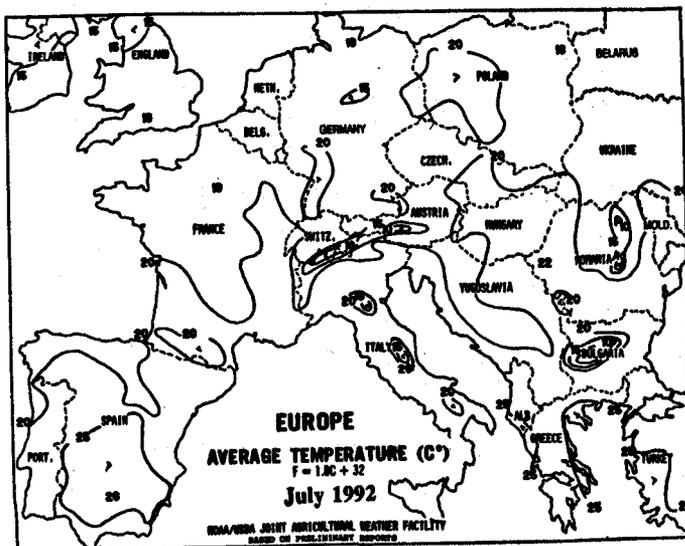
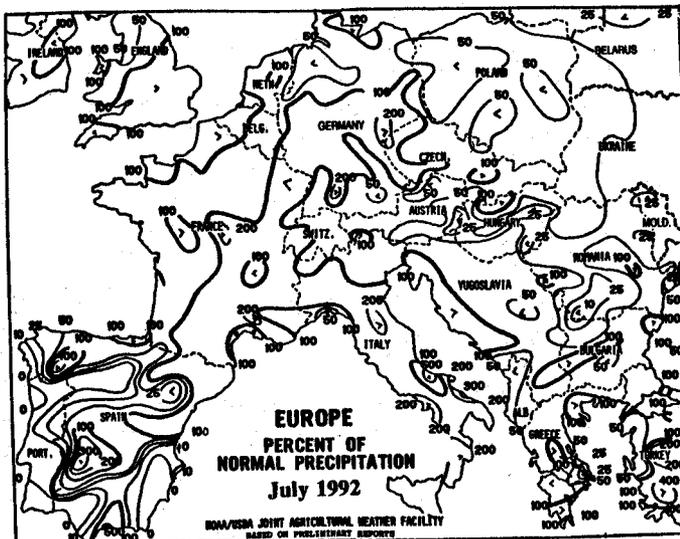
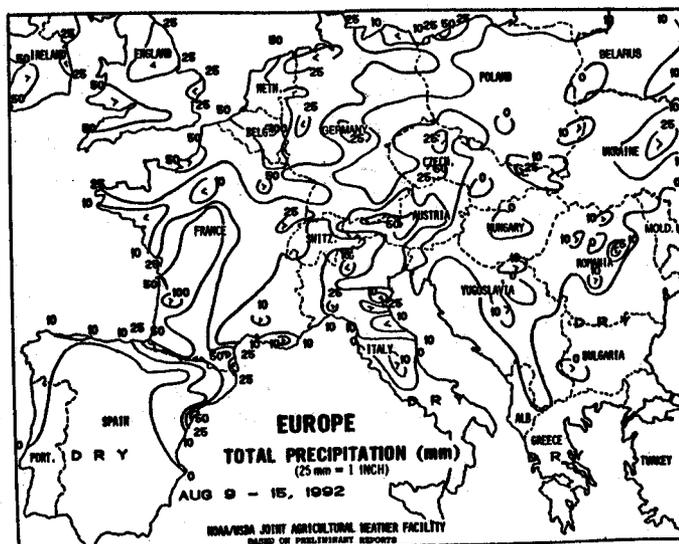
FSU - WESTERN: Most areas received little, if any, precipitation (less than 8 mm), except for the Baltic States, and northwestern areas in Ukraine and Black Soils Region, where rainfall ranged from 10 to 35 mm. Although the dry weather pattern over the region helped winter and spring grain harvesting, drought conditions in Belarus, Northwest Region, Central Region, Moldova, and the western two-thirds of Ukraine continued to adversely impact corn, sunflowers, potatoes, and sugar beets in the filling stage. In addition, weekly average temperatures were 3-6 degrees Celsius (C) above normal, increasing crop stress. In July, drought continued over the Baltic States, Central Region, Northwest Region, Belarus, and middle Volga. Also, dry conditions spread into much of Ukraine, where July precipitation was below to well below normal. The dry weather created adverse conditions for rye in the filling stage, and spring barley, oats, and corn, which were advancing through reproduction. In contrast, moderate to heavy rain fell over western North Caucasus, and extreme eastern Ukraine, and was accompanied by localized hail and gusty winds. There were reports of winter grain harvest delays, lodged crops, and increased disease in these areas.

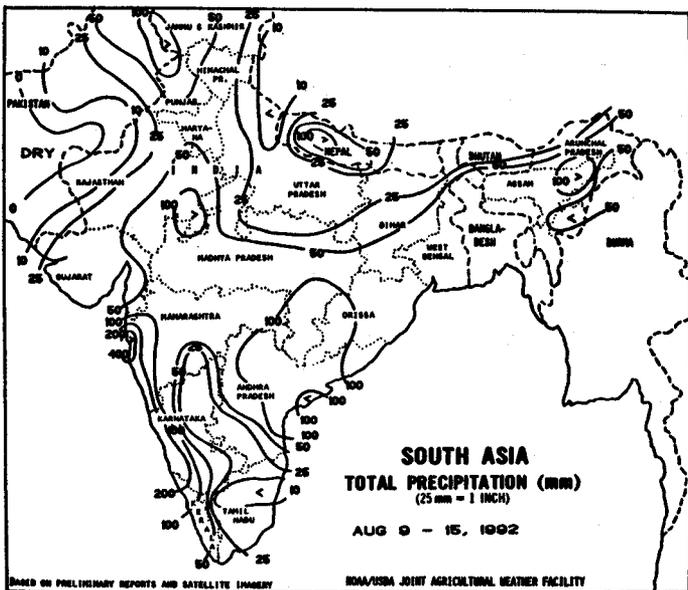


FSU - NEW LANDS: Widespread, variable rain continued to benefit spring grains in the filling stage. Greatest amounts of rain (25-70 mm) covered crop areas in northern Urals, central Kazakhstan, and the central portion of Western Siberia. Mostly dry weather favored spring grain maturation in southern Urals, eastern Kazakhstan, and Altay Kray. Weekly average temperatures over the region were 2-4 degrees C below normal in the west and 2-4 degrees C above normal in the east. In July, a brief episode of hot, dry weather covered spring grain areas in parts of Kazakhstan and Western Siberia on July 11-15. Maximum temperatures ranged from 35 to 40 degrees C, increasing stress on spring grains in or nearing reproduction. Since July 16, cooler weather has been accompanied by widespread precipitation over most spring grain areas, improving conditions for crops.

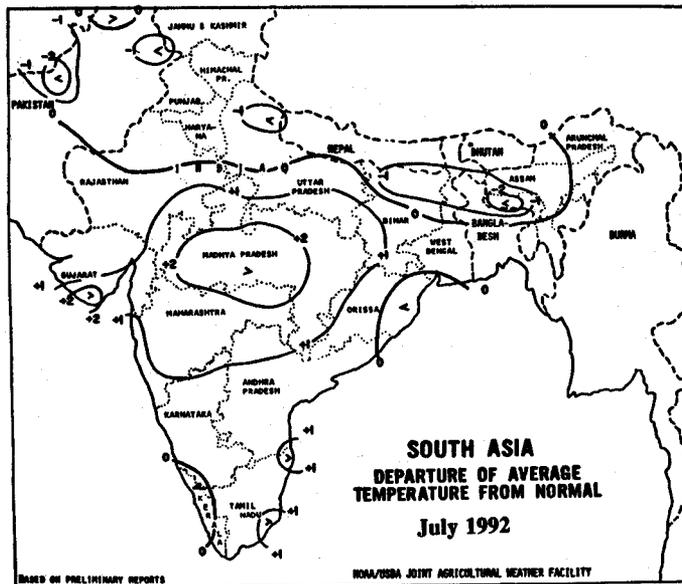
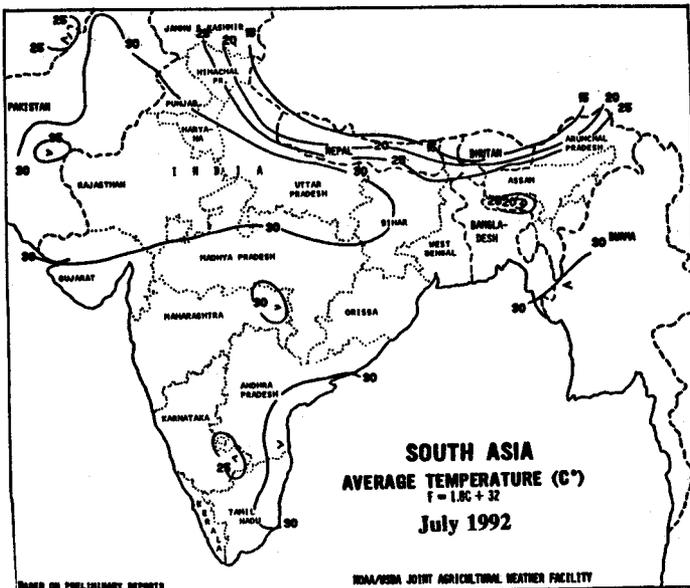
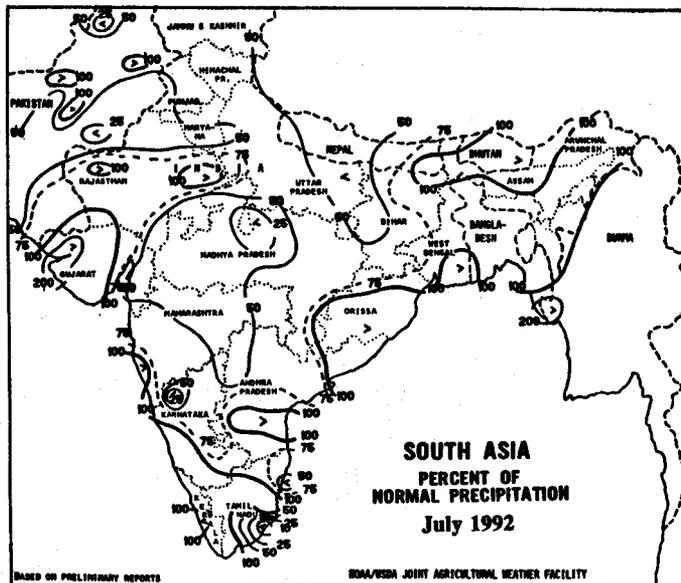
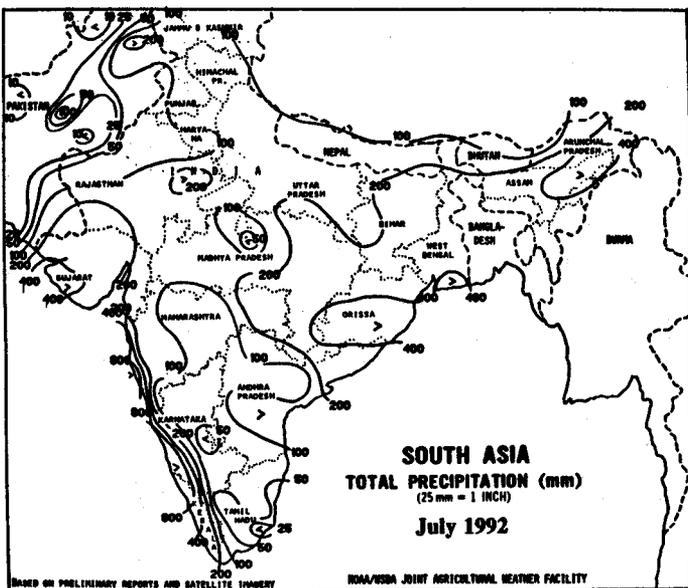


EUROPE: Moderate to heavy rain covered corn areas in southwestern France on August 9, and spread northward over crop areas in the Netherlands, Belgium, and western Germany on August 10. Rainfall generally ranged from 25 to 50 mm, with local amounts in excess of 75 mm. There were reports of minor flooding and local crop damage in southwestern France. Further east, continued dry weather over Poland, Czechoslovakia, Hungary, Romania, Yugoslavia, and Bulgaria helped small grain harvesting but adversely affected summer crops in the filling stage. In addition, maximum temperatures ranging from 33 to 37 degrees C in these areas hastened crop development. In Spain, southern Italy, and Greece, dry weather favored summer crop maturation and harvest. In July, a drying trend which developed in June in the north and northeast expanded over most of eastern Europe. Below to much-below-normal precipitation covered Poland, eastern Czechoslovakia, Hungary, Romania, Bulgaria, and Yugoslavia. While the dry weather favored winter grain harvesting, it reduced prospects for summer crops which had advanced through reproduction. Further west, near- to above-normal July precipitation covered England, central France, central Germany, and Italy.

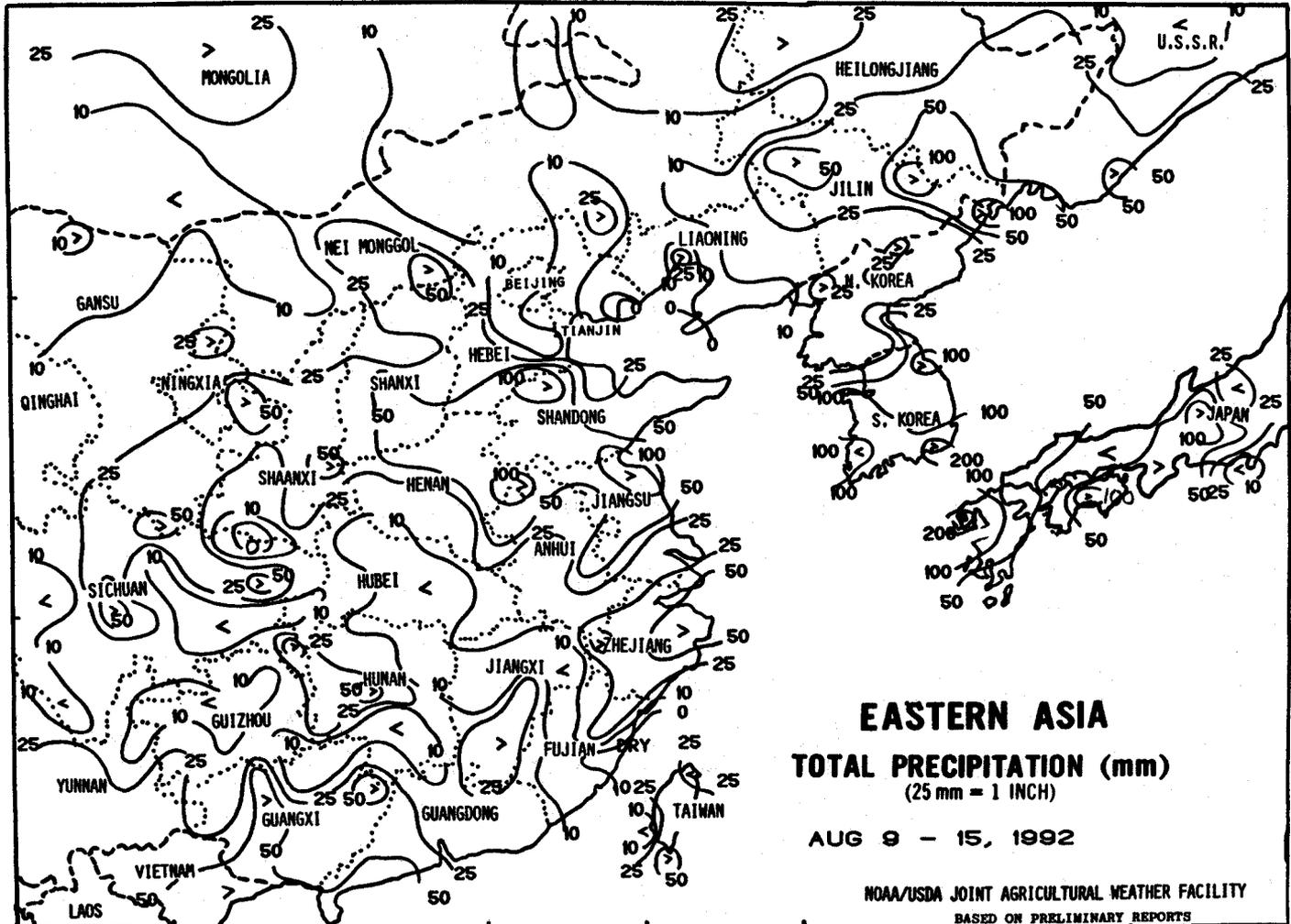


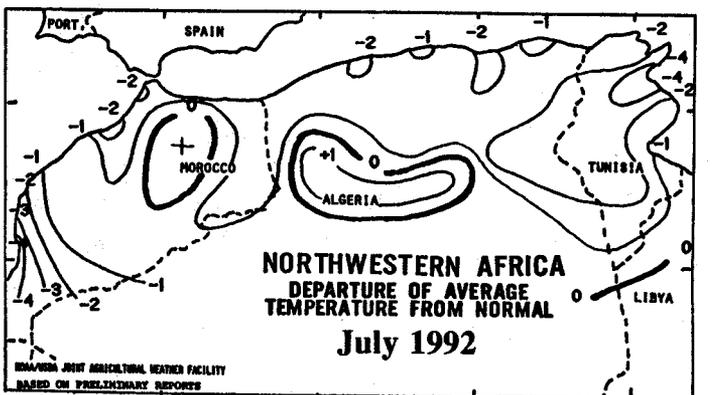
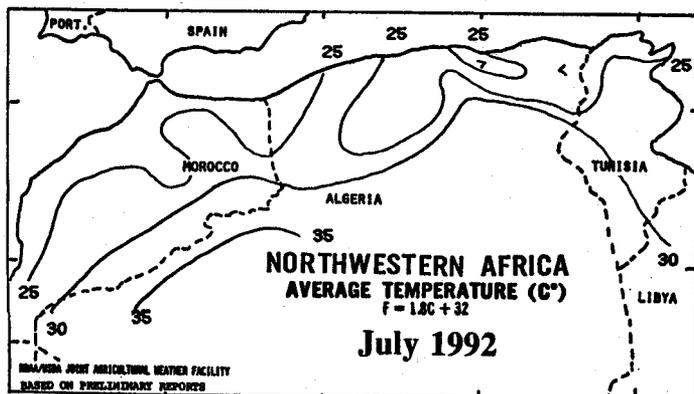
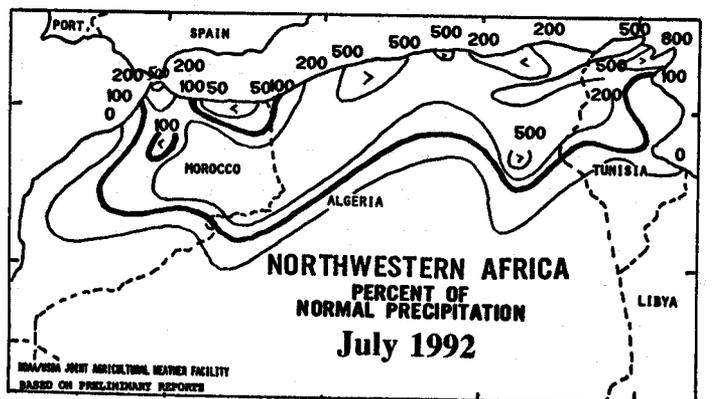
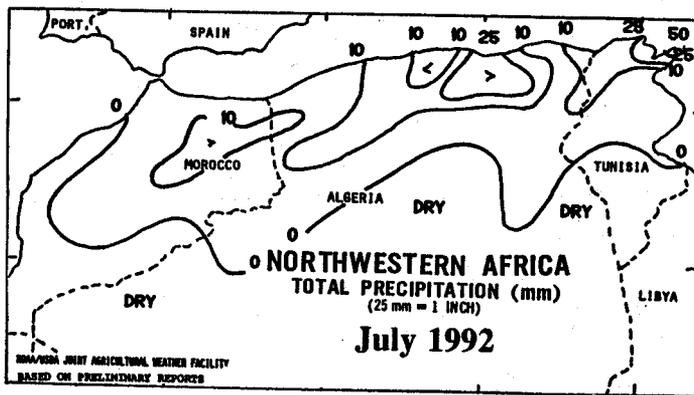
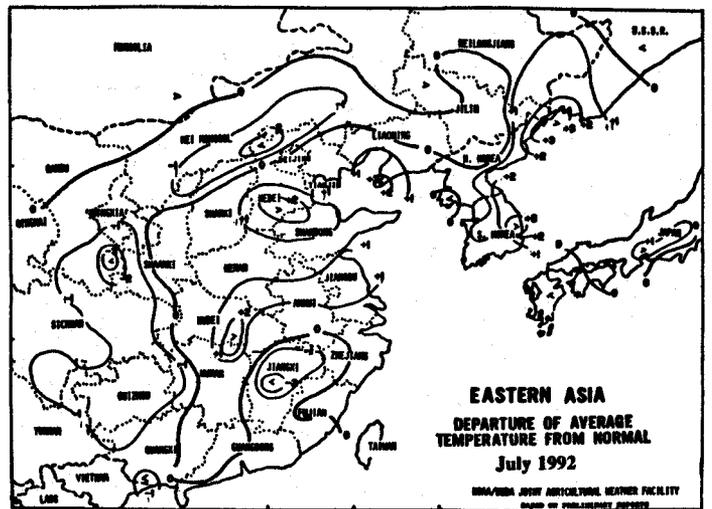
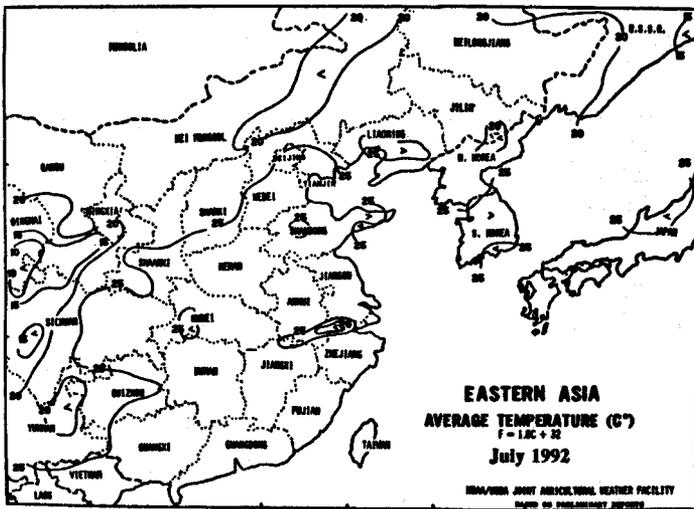
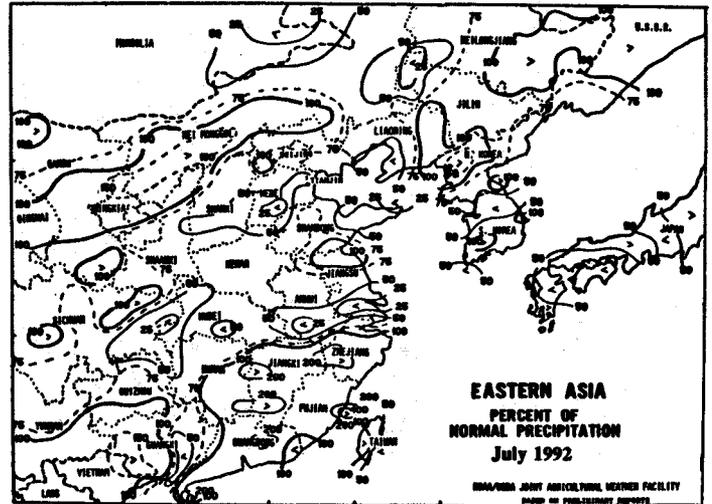
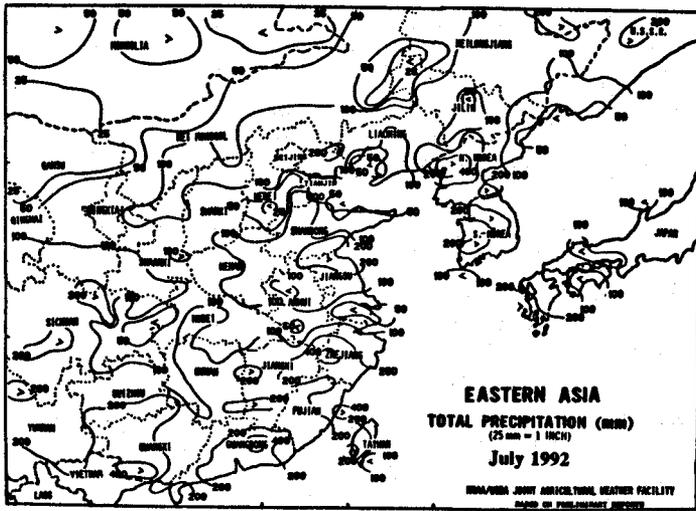


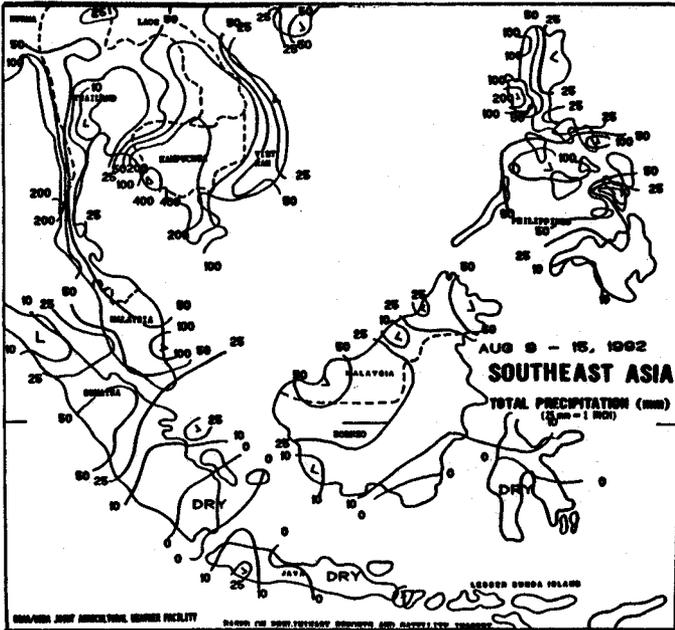
SOUTH ASIA: Beneficial showers (25-100 mm or more) continued over primary crop regions of central and northwestern India and Pakistan, improving moisture for both rain-fed and irrigated crops but worsening local flooding. Rainfall was heavy (50-143 mm) for the second week over Andhra Pradesh, but continued to be somewhat lighter than normal (7-23 mm) from south-central Maharashtra to Tamil Nadu. Showers also tapered off in primary rice areas of northern India, Bangladesh, and India's eastern states, with many locations reporting less than 25 mm. In early July, the monsoon circulation was weak and poorly established, resulting in unfavorably drier- and warmer-than-normal weather for emerging grains, oilseeds, and cotton. Since mid-July, however, the monsoon has gradually intensified, providing much-needed rainfall to primary rain-fed crop regions of central India and dramatically improving yield prospects. At month's end, dry pockets persisted in India's southern interior, and extreme northern crop areas that the monsoon had not yet reached, but the affected areas have since received timely showers.



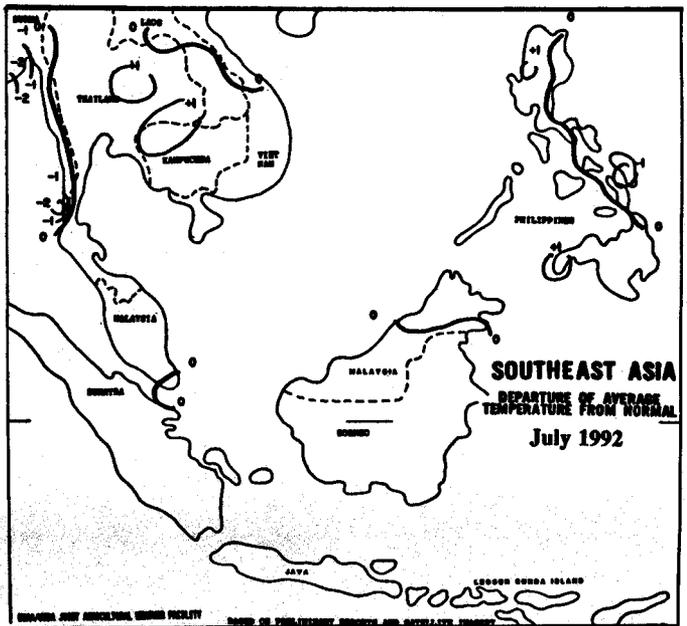
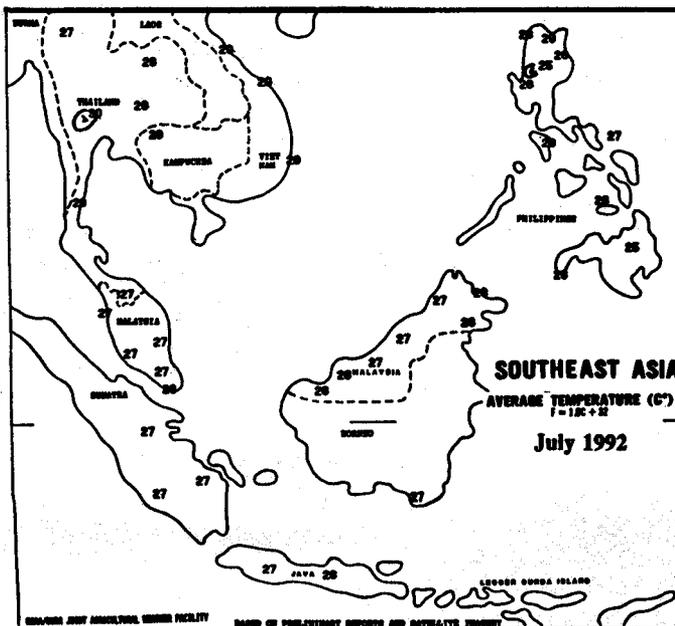
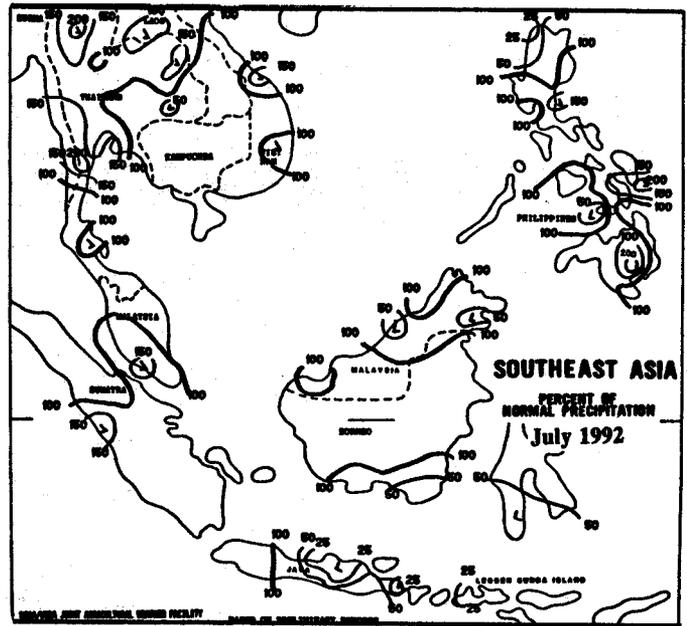
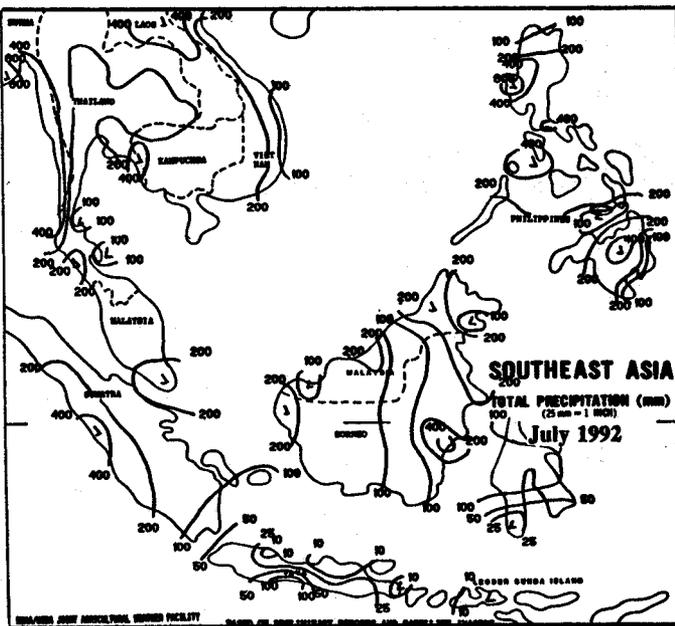
EASTERN ASIA: Moderate to heavy rain (53-147 mm) covered the primary crop region of the North China Plain (northern Jiangsu, Anhui, Shandong, Henan, and southern Hebei), favoring reproductive to filling corn, soybeans, and rain-fed cotton. July rainfall averaged near normal across this region, with drier conditions further west (northern Henan and southern Hebei). Moderate to heavy rain (21-179 mm) also covered Manchuria, which received mostly near-normal July rainfall, where favorable moisture conditions exist for corn and soybeans. However, the rains delayed spring wheat harvesting. Scattered showers (10-65 mm) fell across central and southern China, with greater coverage in the coastal provinces, keeping reservoirs high. At week's end, Tropical Storm Mark developed near Hong Kong with sustained winds of about 40 knots. Weekly temperatures averaged 2-3 degrees C above normal across west-central and southwestern China and 1-3 degrees C below normal across the North China Plain and Manchuria. July rainfall was near to above normal across most of southern China, with isolated areas of below-normal rainfall along the Yangtze Valley, which allowed single-crop rice to mature.



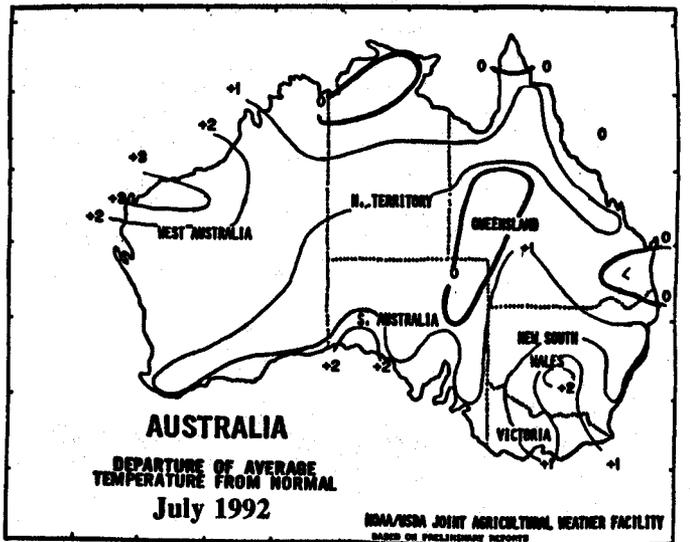
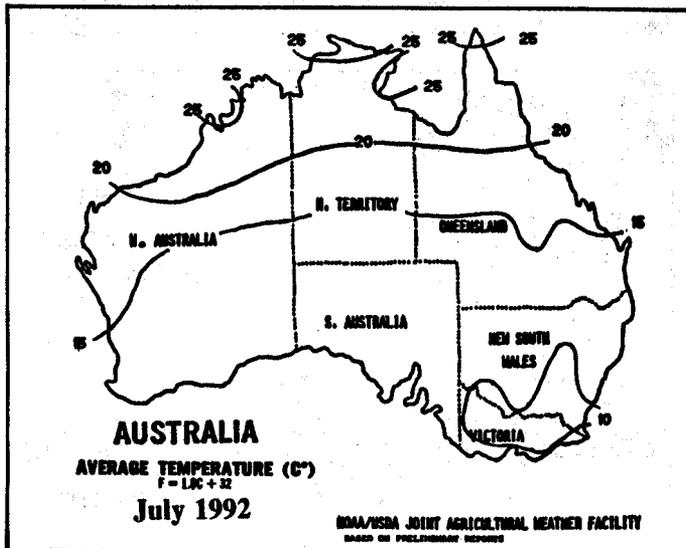
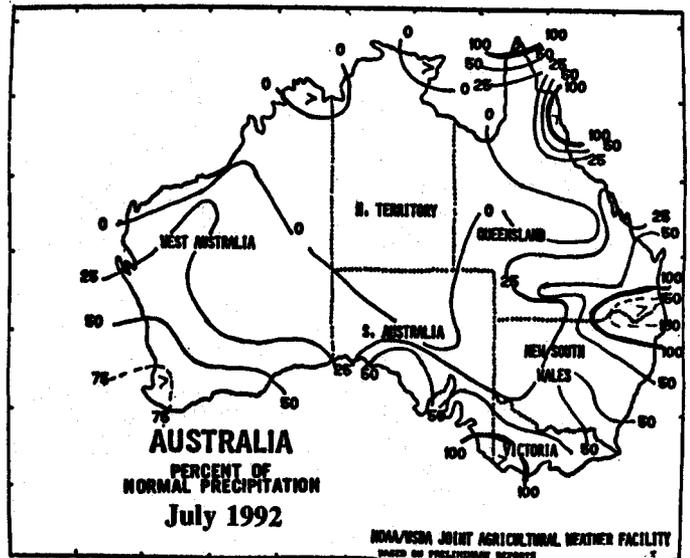
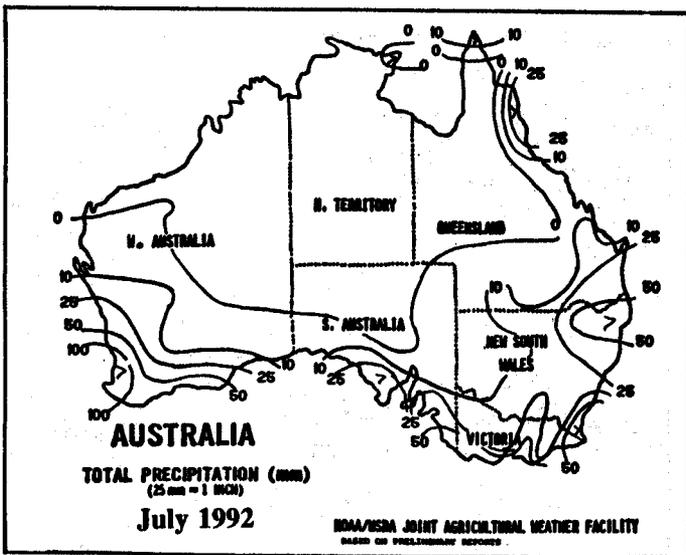
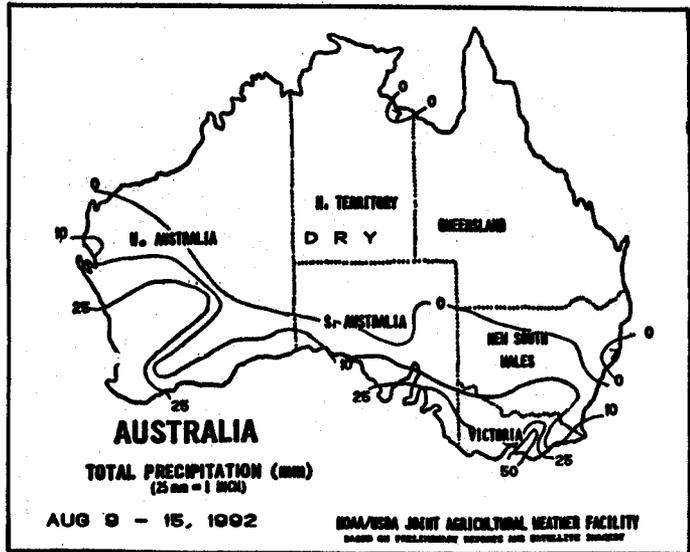




SOUTHEAST ASIA: Showers tapered off over central Thailand, with most areas from Bangkok to about 16 degrees N latitude receiving less than 25 mm. Moderate showers (25-92 mm) continued over the Northern Hills region and heavier showers (50-143 mm) fell over rain-fed rice areas of the Khorat Plateau, as well as many other locations in Indochina including Vietnam's Red and Mekong Deltas. During July, rainfall markedly increased over Indochina, improving prospects for main-season rice, corn, and sugarcane, some of which was planted late due to dryness. Some flooding from July's heavy rain was likely along the upper Chao Phraya, and in northern Vietnam from frequent typhoon activity. In the Philippines, showers increased over the islands, with many locations from northwestern Luzon to Mindanao receiving 25-50 mm or more. Shower activity has been increasing over the Philippines since early July when tropical storm activity picked up in the western Pacific. However, cumulative rainfall continues to be below normal over many crop areas, including primary grain and sugarcane areas of northern Luzon and the western Visayans.

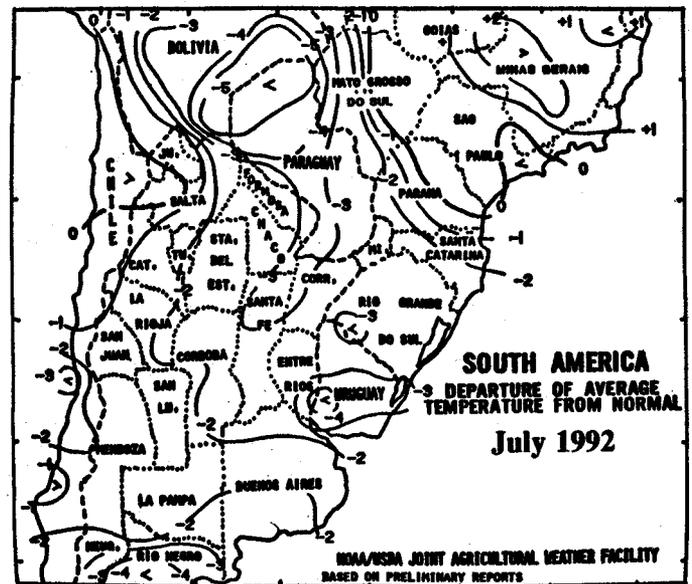
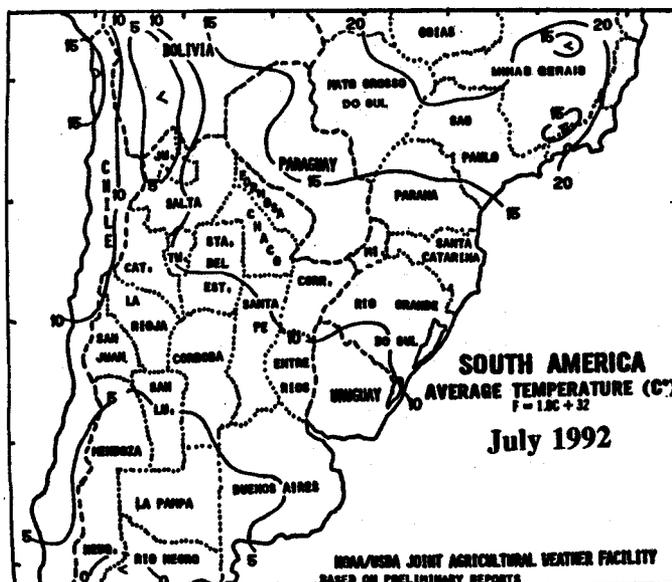
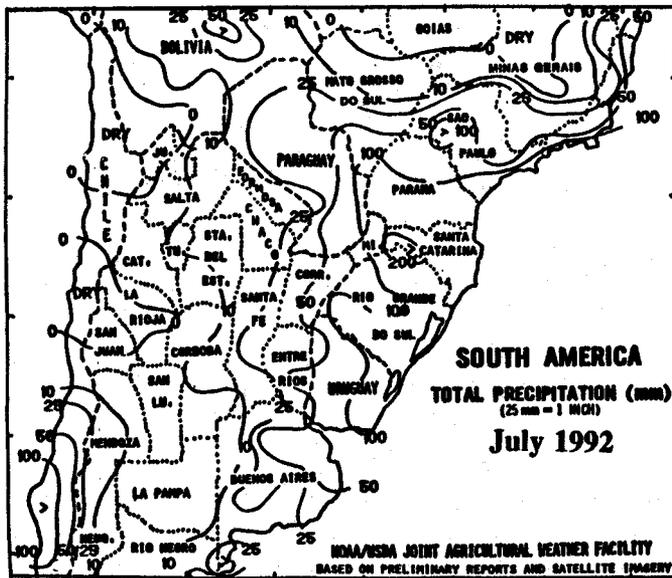


AUSTRALIA: Dry weather returned to southern Queensland and northern New South Wales, allowing late, if any, wheat planting after previous beneficial rain. Weekly temperatures averaged near normal across Australia's winter grain regions. By mid-August most of the winter wheat is planted. This region received less than 20 mm during July (30-50 percent of normal), except for a few isolated heavy showers (greater than 100 percent of normal). South Australia and Victoria, which experienced below- to near- normal July rainfall, received light to moderate rain (6-37 mm). Moderate showers (21-45 mm) covered Western Australia's wheat region, benefiting vegetative winter grains. During July, periodic rain kept western topsoils moist, but rainfall averaged 30-70 percent of normal.

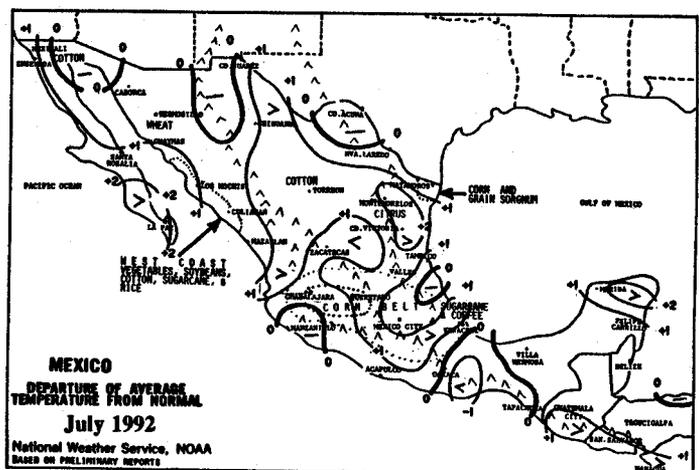
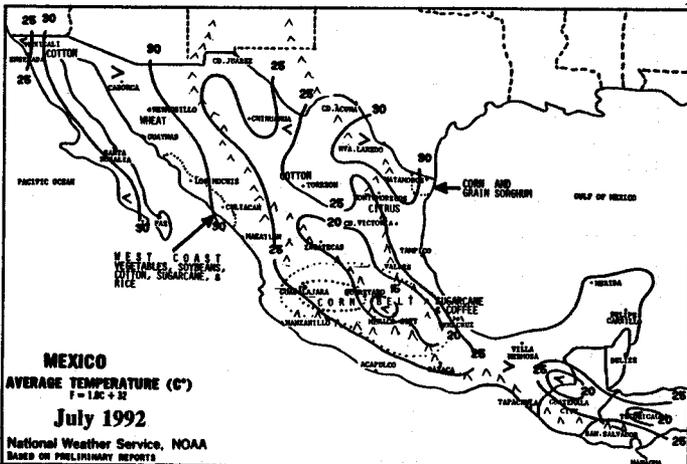
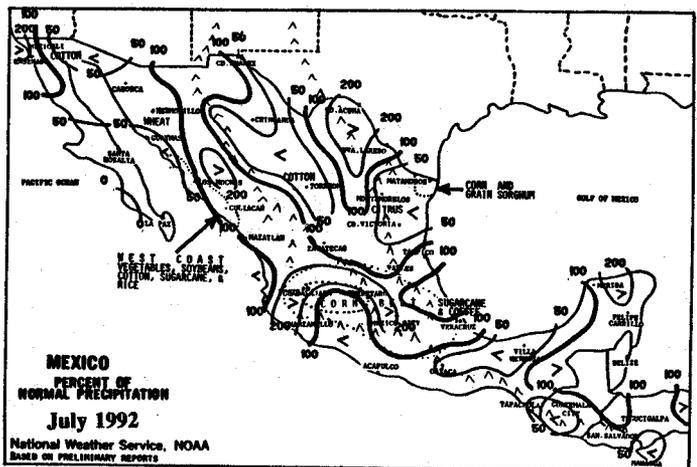
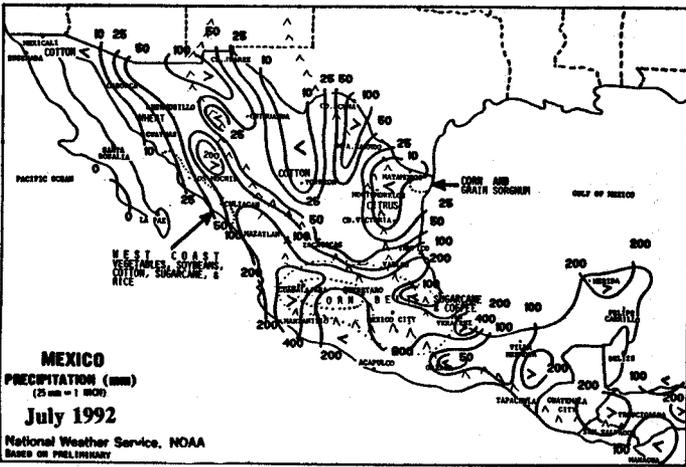
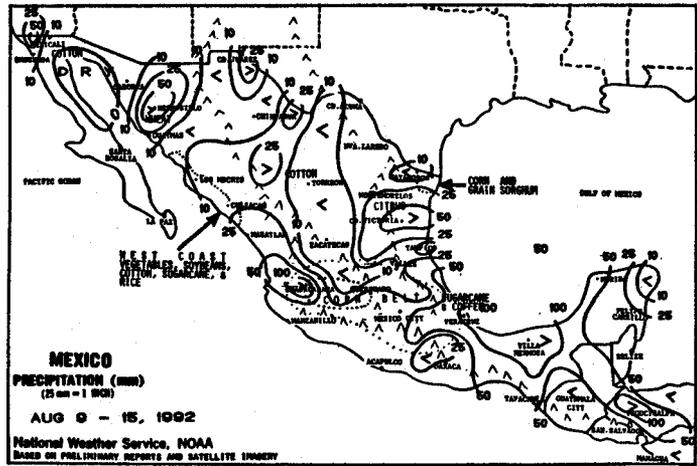




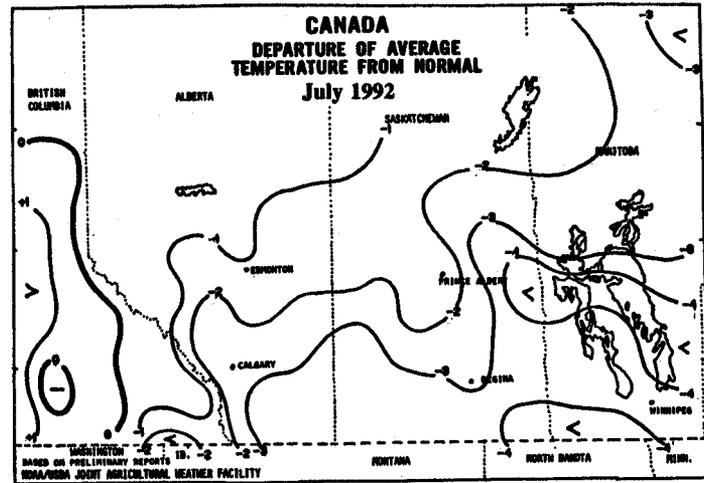
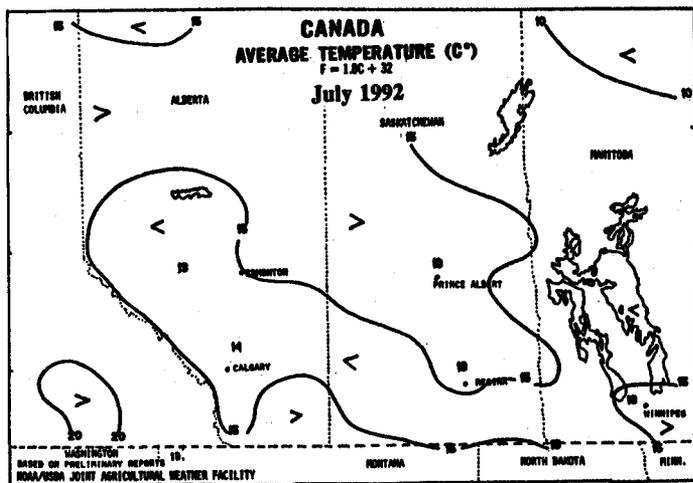
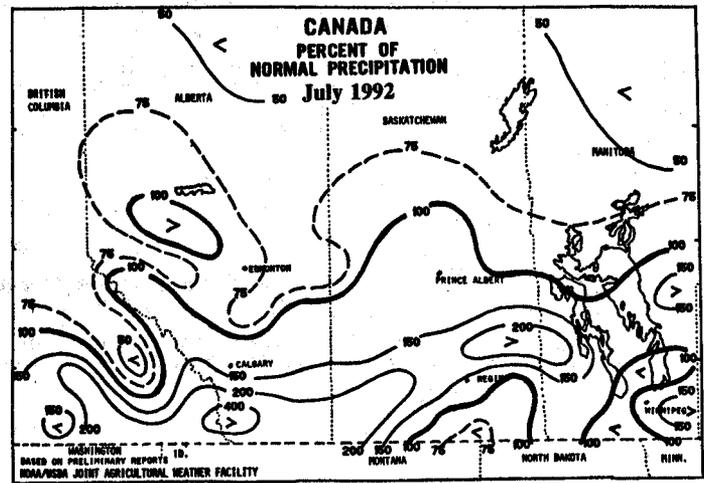
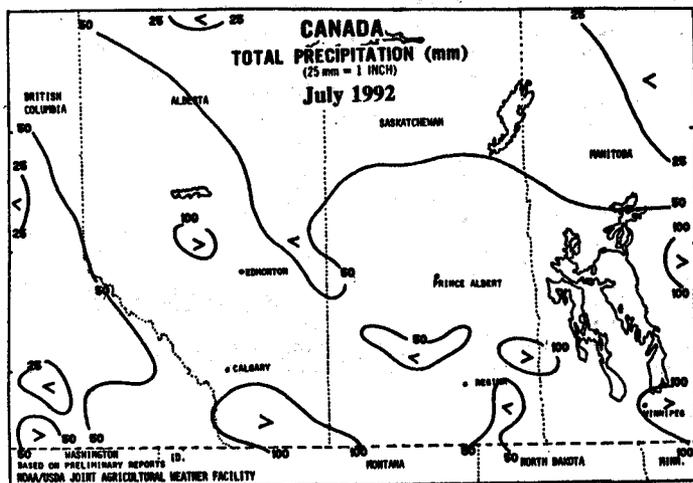
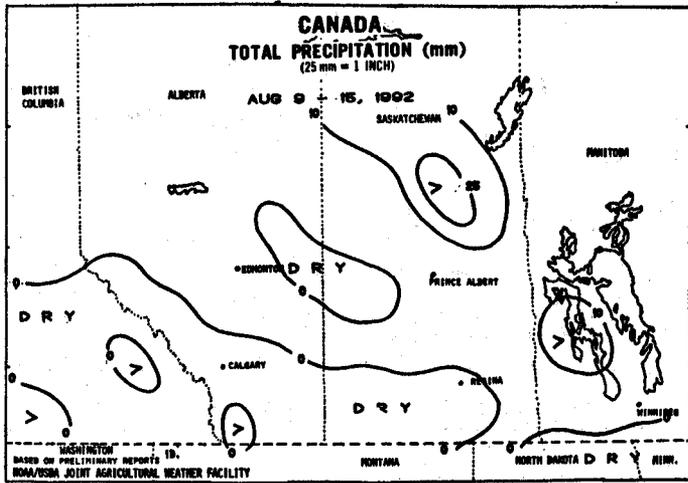
SOUTH AMERICA: Little or no rain fell across central Argentina, where soil moisture is becoming limited in the western winter wheat region. Weekly temperatures averaged 2-4 degrees C below normal across southern Brazil and northern Argentina, and near normal across central Argentina. During July, southern Santa Fe, southern Cordoba, northern Buenos Aires, and northeastern La Pampa received less than 50 percent of normal rainfall. Moisture is needed to ensure germination and early growth. Eastern Buenos Aires received normal to above-normal rain during July, aiding winter wheat germination. In southern Brazil, moderate to heavy rain (50-128 mm) fell across Santa Catarina and southern Parana, keeping soil moisture levels high and possibly causing some flooding. July rainfall averaged near to above normal across most of southern Brazil, aiding vegetative winter wheat.

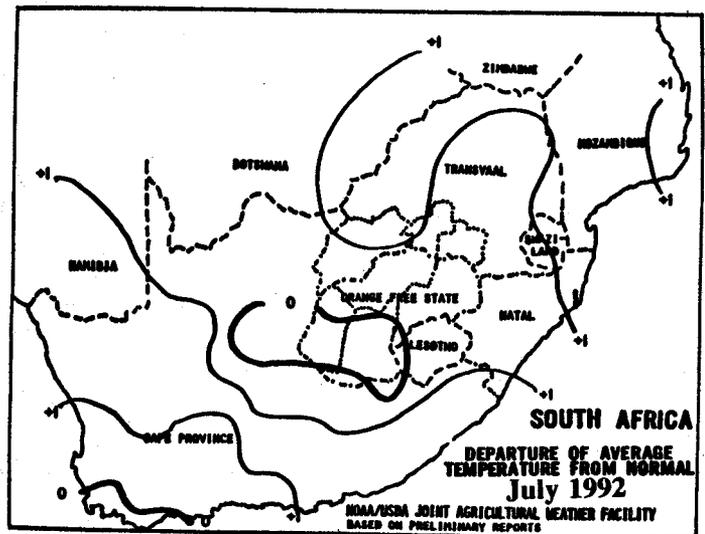
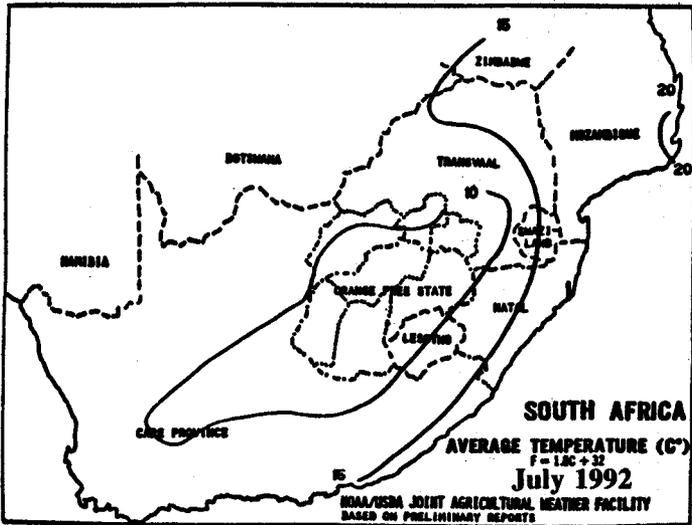
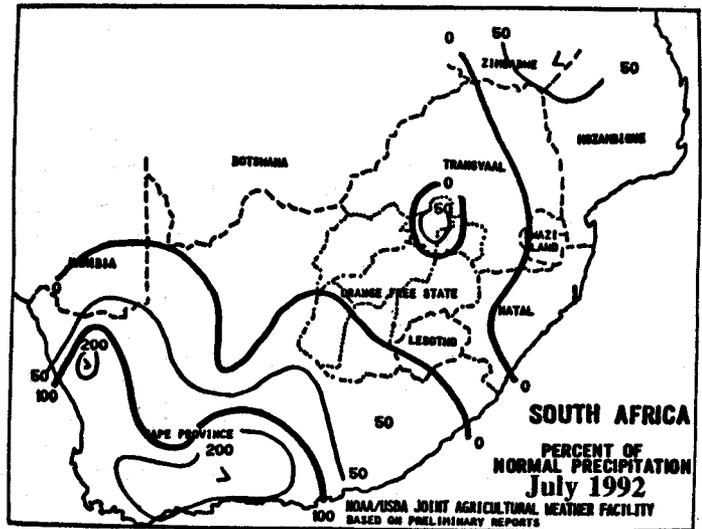
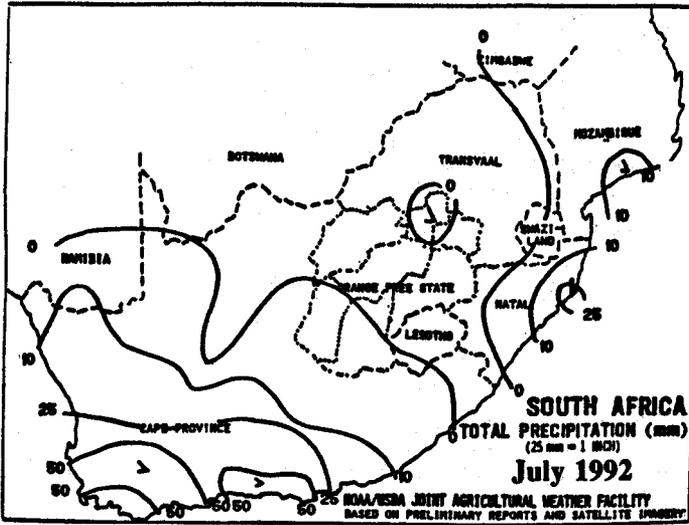


MEXICO: Variable showers (10-85 mm, with isolated amounts greater than 100 mm) fell across the Southern Plateau corn belt, keeping soil moisture levels high for reproductive to filling corn. Northeastern Mexico received light to moderate rain (10-55 mm), benefiting vegetative to reproductive corn and sorghum. Weekly temperatures averaged near normal across the corn belt. During July, most crop areas received normal to above-normal rain, except for the northeast, isolated portions of the main corn belt, and the extreme south.



CANADA: The drying trend continued across the Prairies, with rainfall totaling less than 5 mm over most of Saskatchewan and Alberta. Rainfall was heavier in Manitoba, ranging from 5 to 23 mm. Temperatures averaged near to above normal in Alberta and western Saskatchewan and slightly below normal in the east. However, minimum temperatures reached 5 degrees C or less throughout the Prairies, with a report of 2 degrees C and possible frost on the 12th in southwest Manitoba. In Ontario, cool, wet weather (rainfall of 9-33 mm; temperatures averaging 3-4 degrees C below normal) slowed corn growth and hampered winter wheat harvests. In July, cool, wet weather early in the month improved moisture conditions in the southeastern Prairies for reproductive to filling grains and oilseeds. In Manitoba, and adjacent sections of Saskatchewan, lingering rain and persistent, colder-than-normal temperatures delayed crop development and increased the threat of pests and diseases. Showers and seasonably warmer temperatures in northern crop areas of Alberta and Saskatchewan stabilized moisture-stressed grains and oilseeds, but did not increase moisture reserves. In Ontario and Quebec, cool weather slowed growth of corn and winter wheat.





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