

# WEEKLY WEATHER AND CROP BULLETIN

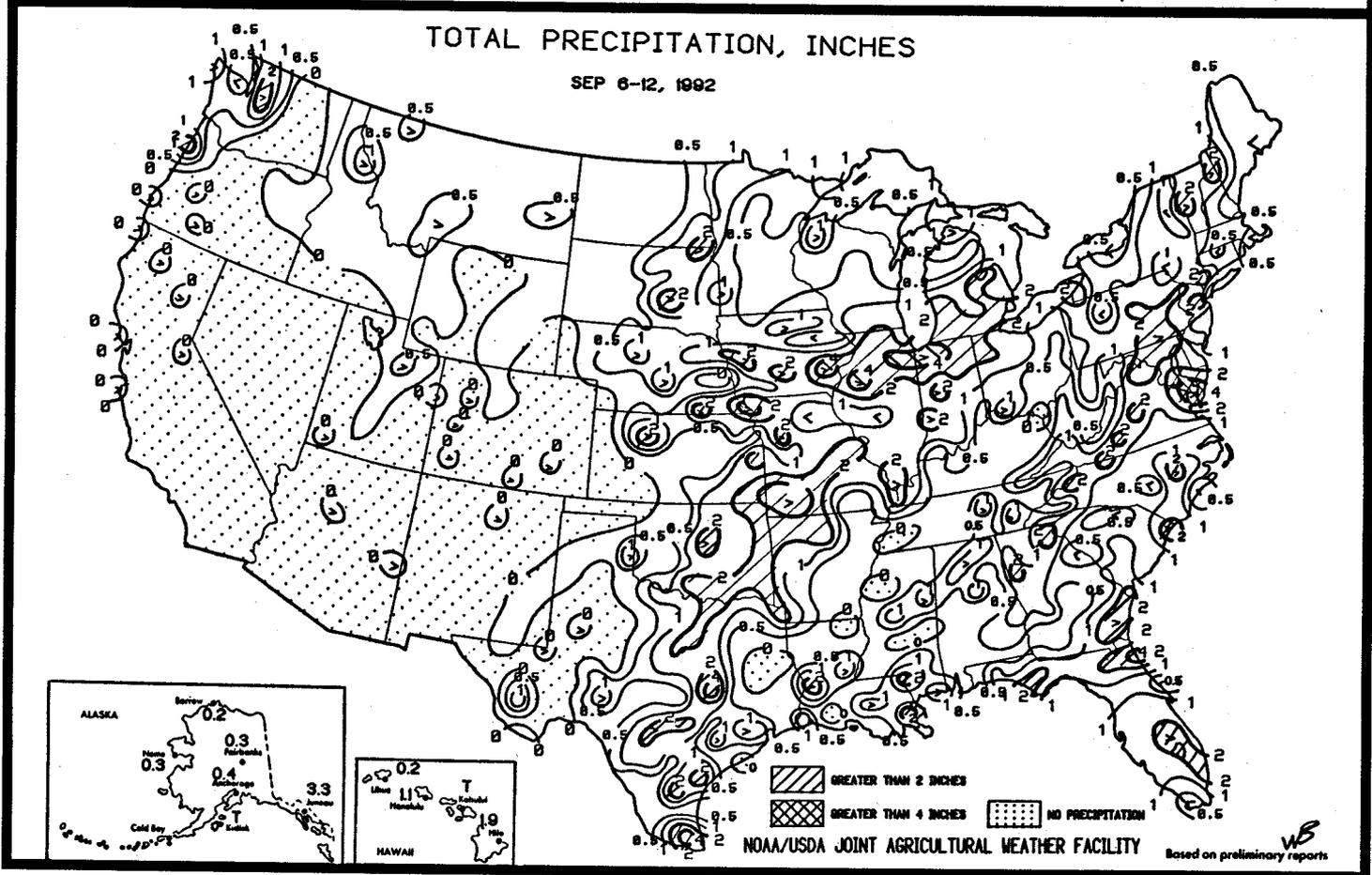
U.S. DEPARTMENT  
OF COMMERCE  
National Oceanic and  
Atmospheric Administration,  
National Weather Service

U.S. DEPARTMENT  
OF AGRICULTURE  
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## HIGHLIGHTS

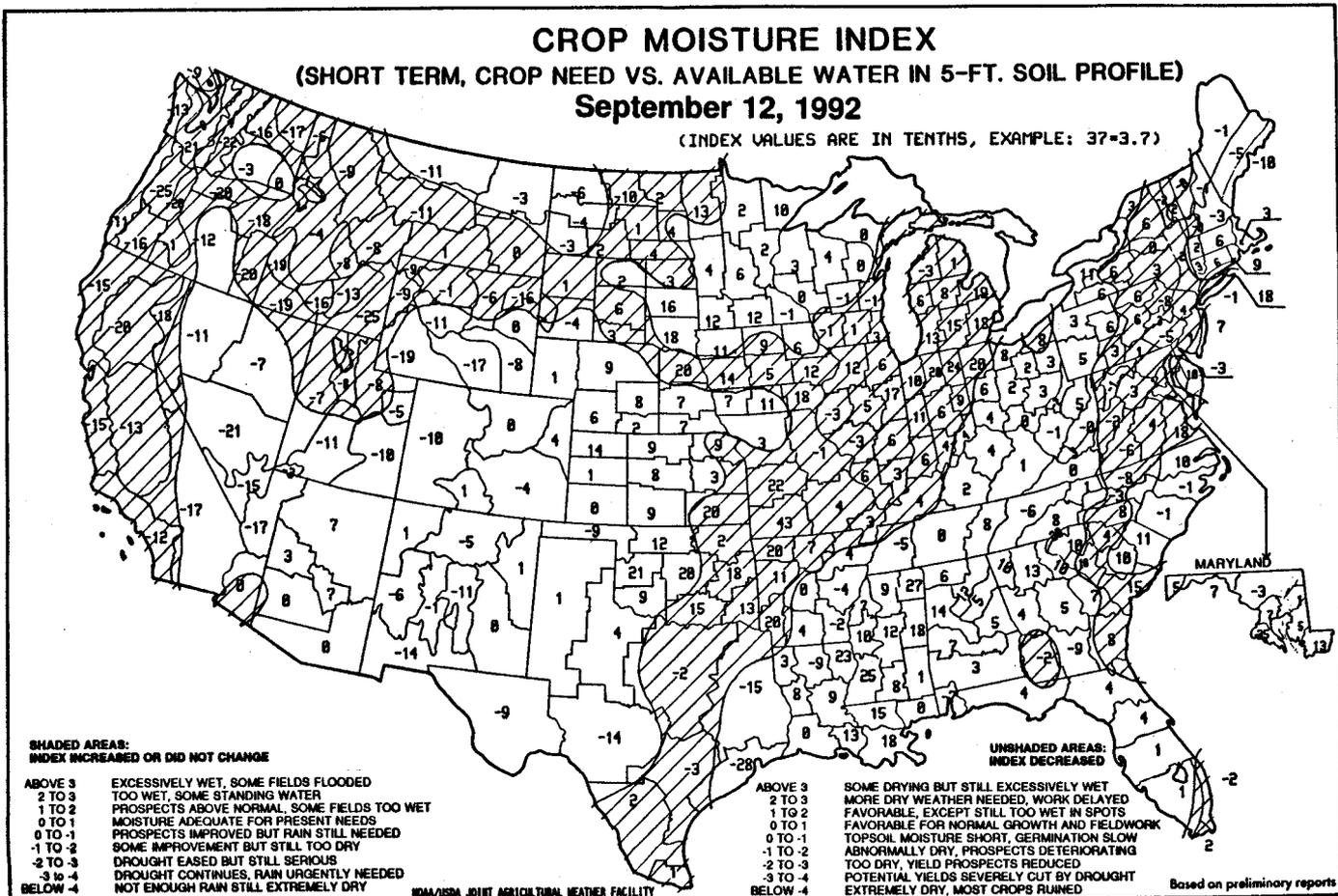
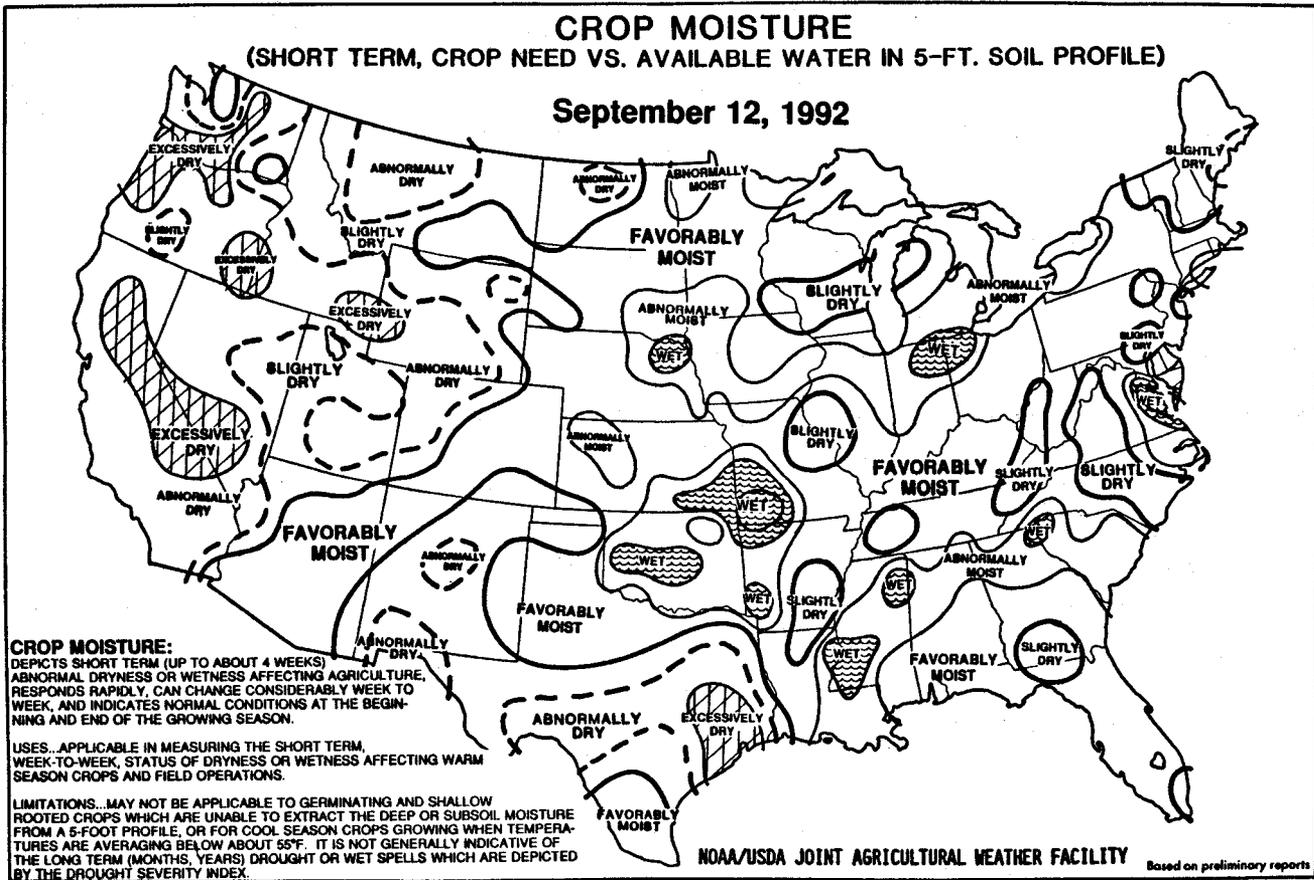
September 6 - 12, 1992

Cool weather continued in the **North Central** and **Northwestern States**, and thunderstorms were active from the **Plains** eastward. But the most significant weather occurred late in the week as Hurricane "Iniki" raged across **Kauai Island, HI**, and cold, snowy weather arrived in **interior Alaska**. Early in the week, sub-freezing cold dipped as far south as **northern Nevada**. **Butte, MT**, registered 18°F and **Pocatello, ID**, noted 31°F. By Tuesday morning, patchy frost reached the **northwestern Corn Belt**. **Aberdeen, SD**, recorded 32°F. A fast-moving cold front swept across the **Corn Belt** at midweek, sparking heavy rains. Up to 4 inches deluged **central Illinois**, which had received less than 1 inch of rain since August 1. Lowland flooding occurred in **northern Indiana**, where up to 5 inches fell. A day later, heavy rain developed along the **east coast** and in the **southern**

(Continued to p. 35)

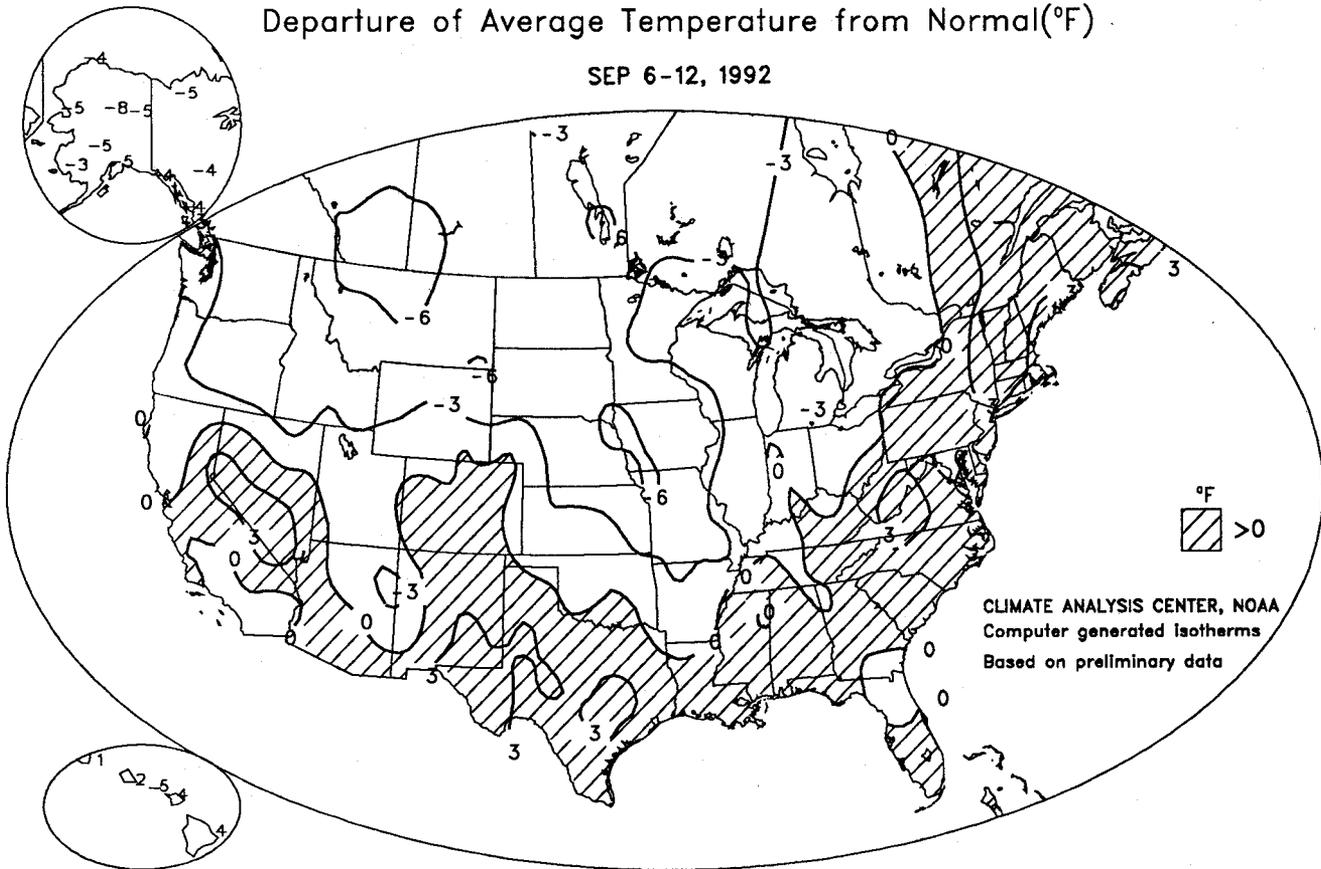
## Contents

	Page
Highlights & Total Precipitation Map .....	1
Crop Moisture Maps .....	2
Temperature Departure & Extreme Minimum Temperature Maps .....	3
Total Growing Degree Days & Departure Maps ...	4
National Weather Data for Selected Cities ....	5
<b>Summer Weather Review</b> .....	8
Summer Precipitation & Temperature Maps .....	9
<b>U.S. Summer Weather of 1992: 1915 Revisited</b> ...	11
<b>Hurricane "Iniki" Strikes Hawaii</b> .....	12
National Agricultural Summary .....	13
Crop Progress and Condition Tables .....	14
State Summaries of Weather and Agriculture ...	16
International Weather and Crop Summary & <b>August Precipitation and Temperature Maps</b> ..	23
Subscription and Mailing Permit Information & <b>Corn and Soybean Production Up Slightly</b> ....	36



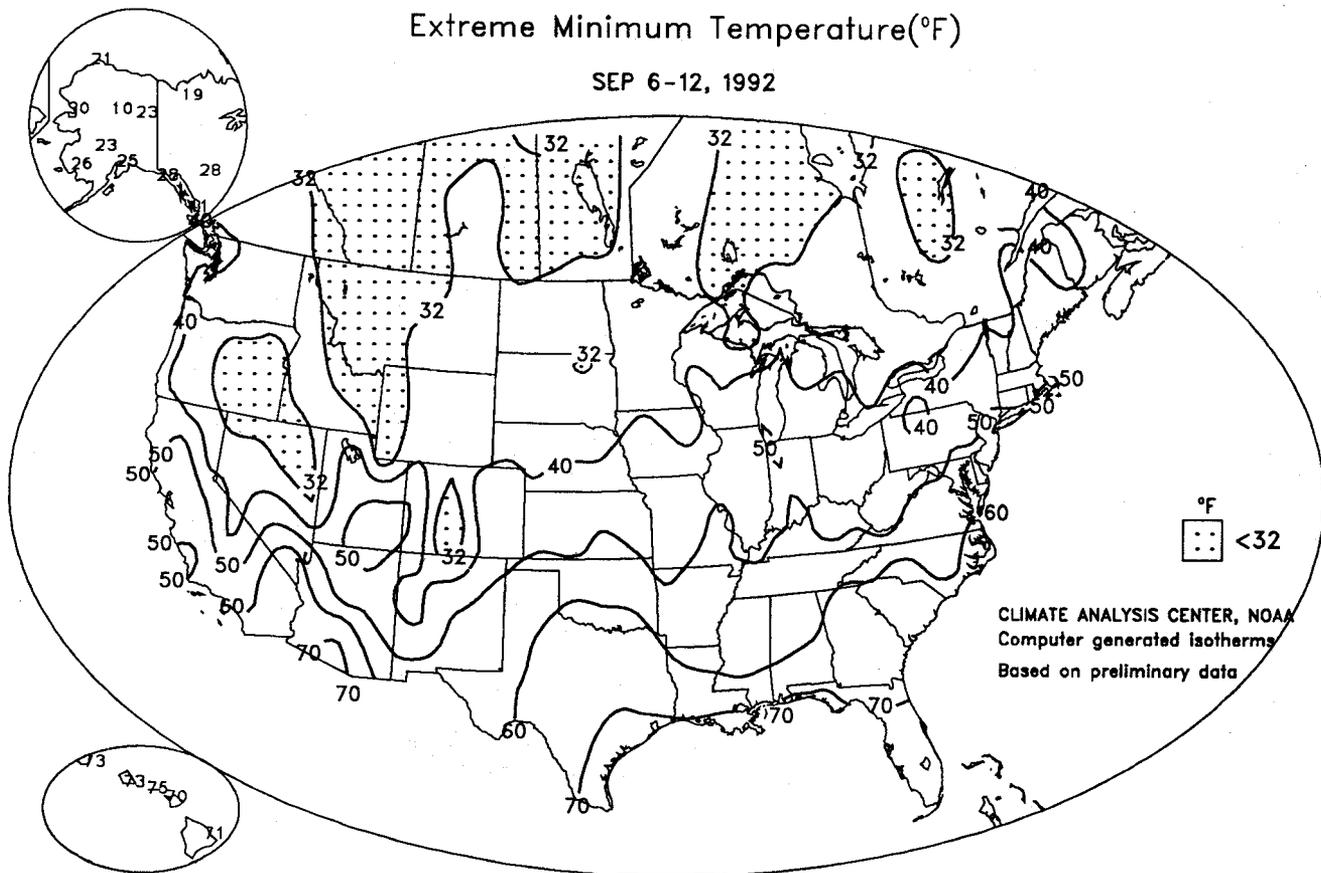
### Departure of Average Temperature from Normal(°F)

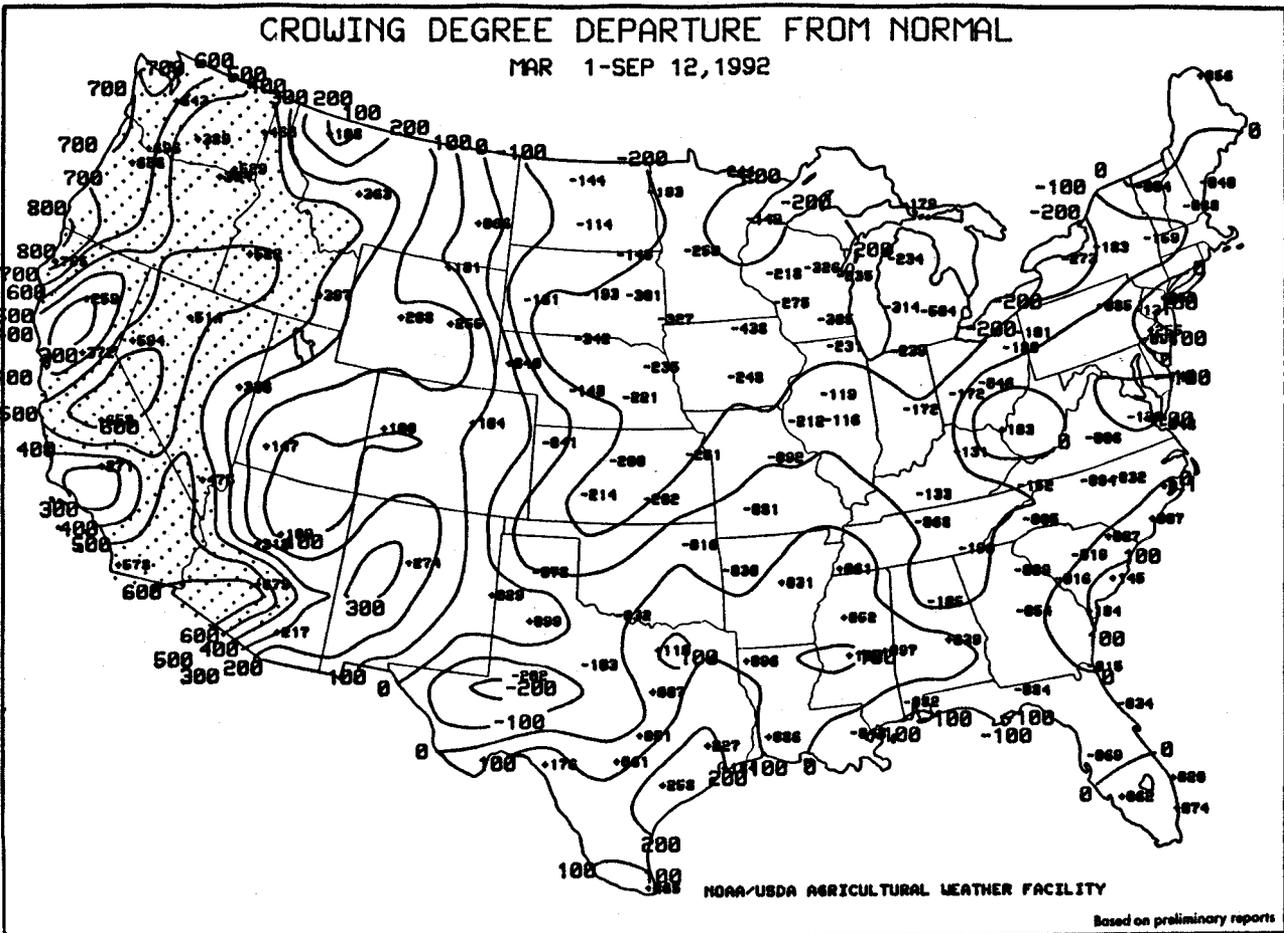
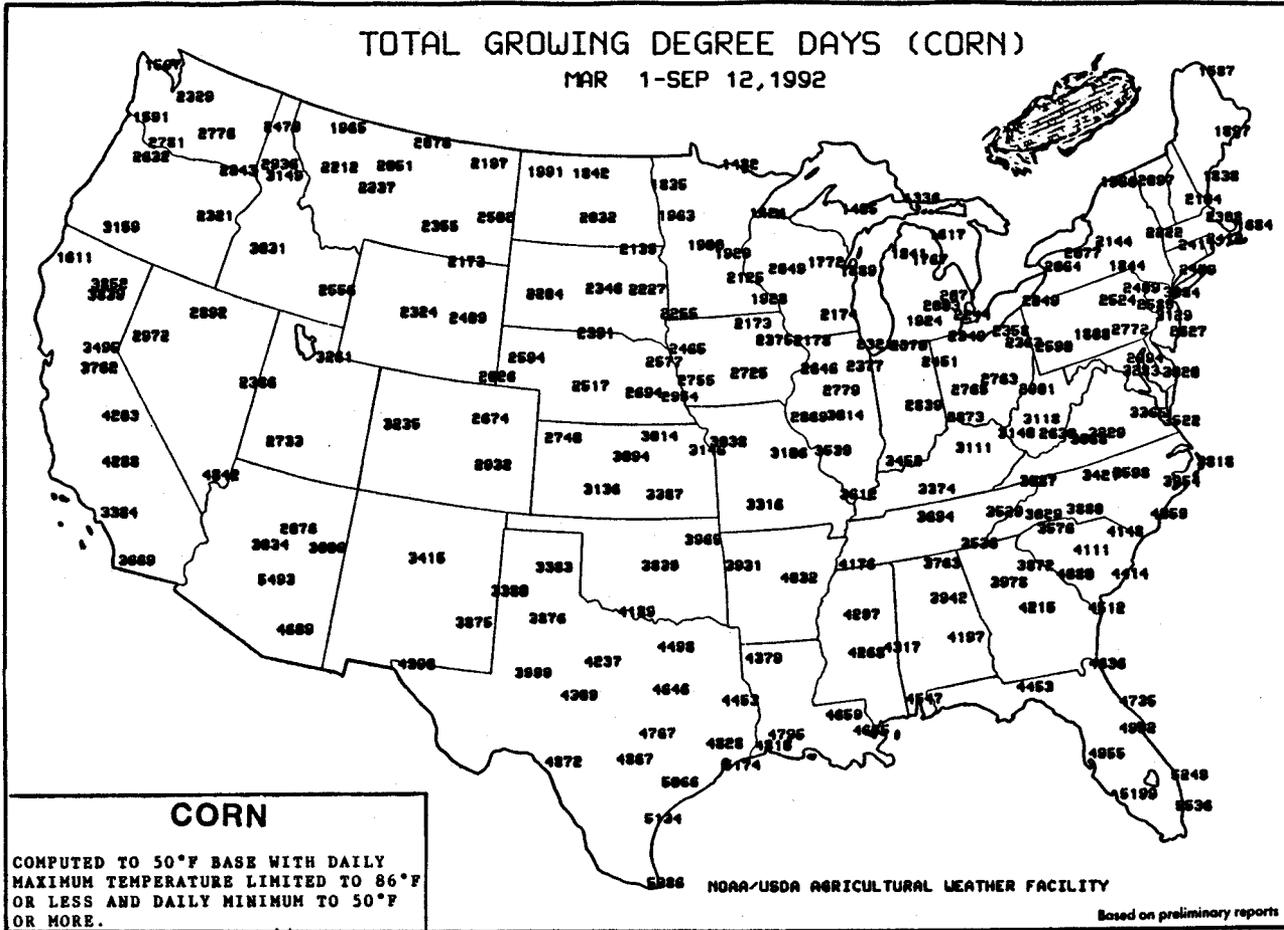
SEP 6-12, 1992



### Extreme Minimum Temperature(°F)

SEP 6-12, 1992





# National Weather Data for Selected Cities

## Weather Data for the Week Ending September 12, 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 Sept 1	PCT. NORMAL SINCE Sept 1	TOTAL, IN., SINCE Jan 1		PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMP. °F		PRECIP.
													90 AND ABOVE				32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	88	64	91	52	76	0	.2	-.8	.2	4.9	271	40.4	99	99	49	2	0	1	0
MOBILE	90	71	92	67	80	1	.5	-1.1	.4	.7	23	48.9	99	97	54	5	0	4	0
MONTGOMERY	91	68	93	63	80	1	.1	-1.1	.1	.6	32	44.0	121	98	52	6	0	1	0
AK ANCHORAGE	52	36	62	25	44	-1.4	1.0	.4	.9	1.7	169	9.3	97	88	49	0	2	2	1
BARROW	32	25	38	22	29	-1.4	.2	.1	.1	.2	73	1.8	55	92	69	0	7	4	0
FAIRBANKS	49	29	66	18	39	-3.9	.3	.0	.2	.3	61	8.7	113	90	47	0	4	2	0
JUNEAU	52	45	54	34	48	-3.3	3.3	1.9	1.8	4.1	173	52.1	165	99	79	0	0	6	1
KODIAK	60	41	64	33	50	-1.1	T	-1.4	T	.2	T	40.3	104	83	44	0	0	0	0
NOME	47	32	58	24	40	-5.5	.3	-.3	.1	1.3	121	8.6	81	93	59	0	4	3	0
AZ PHOENIX	105	76	107	72	91	5	.0	-.2	.0	.0	0	10.8	233	38	13	7	0	0	0
PRESCOTT	86	52	88	49	69	1	.0	-.3	.0	.0	0	17.5	176	56	16	0	0	0	0
TUCSON	101	68	103	65	85	3	.0	-.3	.0	.0	0	12.0	151	47	13	7	0	0	0
YUMA	105	75	106	64	90	1	.0	-.1	.0	.0	0	3.5	225	59	18	7	0	0	0
AR FORT SMITH	84	63	92	55	74	-2.2	2.1	1.3	1.6	3.9	303	33.7	119	98	55	2	0	2	1
LITTLE ROCK	87	66	92	58	76	0	T	-1.0	T	.7	41	32.9	93	79	47	4	0	0	0
CA BAKERSFIELD	92	62	96	59	77	-2.2	T	.0	T	T	0	5.7	145	59	22	6	0	0	0
BUREKA	63	52	66	48	57	0	T	-.2	T	T	0	15.3	67	92	69	0	0	0	0
FRESNO	92	61	97	58	77	1	.0	.0	.0	.0	0	9.2	131	70	23	5	0	0	0
LOS ANGELES	75	63	80	62	69	-1.1	.0	.0	.0	.0	0	11.9	141	93	65	0	0	0	0
REDDING	92	60	100	54	76	-2.2	.0	-.2	.0	.0	0	20.2	79	60	16	4	0	0	0
SACRAMENTO	90	55	95	53	72	0	.0	-.1	.0	.0	0	10.1	94	86	24	3	0	0	0
SAN DIEGO	75	65	76	64	70	-1.1	.0	.0	.0	.0	0	10.0	159	87	62	0	0	0	0
SAN FRANCISCO	76	56	81	53	66	1	T	.0	T	T	0	13.4	108	90	49	0	0	0	0
CO DENVER	82	48	90	44	65	0	.0	-.3	.0	.0	0	13.0	108	72	19	1	0	0	0
GRAND JUNCTION	87	55	89	51	71	2	.0	-.2	.0	.1	21	6.3	117	39	14	0	0	0	0
PUEBLO	86	48	94	43	67	-1.1	.0	-.2	.0	T	0	9.4	106	68	19	2	0	0	0
CT BRIDGEPORT	75	65	83	55	70	2	.7	.0	.6	4.1	305	33.8	118	93	67	0	0	3	1
HARTFORD	77	60	85	46	68	3	.4	-.5	.4	1.0	61	30.1	99	95	58	0	0	3	0
DC WASHINGTON	79	65	86	56	72	-1.1	1.2	.4	.5	1.7	121	26.3	93	98	64	0	0	4	1
FL APALACHICOLA	89	72	91	71	81	0	1.0	-1.2	.4	1.5	40	41.9	102	--	--	3	0	4	0
DAYTONA BEACH	88	72	91	70	80	0	.3	-1.3	.2	.4	14	32.4	92	99	65	1	0	3	0
JACKSONVILLE	88	71	92	69	80	-1.1	1.1	-.5	.6	2.4	84	47.3	118	99	64	2	0	6	1
KEY WEST	89	77	90	75	83	-1.1	2.1	.6	1.3	2.9	115	26.9	104	88	64	1	0	4	2
MIAMI	90	77	93	73	84	1	3.3	1.4	2.6	4.0	125	37.5	91	87	58	5	0	4	1
ORLANDO	91	73	93	71	82	0	1.3	-.3	.5	1.9	68	38.9	100	98	57	7	0	3	1
TALLAHASSEE	91	69	93	68	80	0	1.7	.1	1.7	3.3	115	50.7	101	98	56	5	0	1	1
TAMPA	91	74	93	72	82	1	1.4	-.2	1.4	1.8	62	28.2	76	96	54	6	0	2	1
WEST PALM BEACH	89	75	91	74	82	0	1.8	-.3	1.0	3.7	105	40.6	100	94	62	2	0	6	2
GA ATLANTA	84	69	89	65	76	2	T	-.7	T	5.8	445	38.1	104	98	60	0	0	2	0
AUGUSTA	89	68	92	64	79	2	.2	-.7	.2	2.4	159	36.7	109	100	57	5	0	1	0
MACON	88	69	90	68	79	1	.1	-.7	.1	1.5	108	40.4	117	97	55	1	0	1	0
SAVANNAH	87	71	91	69	79	1	2.7	1.4	.7	4.9	211	44.6	111	99	59	2	0	5	4
HI HILO	87	73	91	71	80	4	1.9	.3	.9	13.1	484	69.9	81	95	66	2	0	6	1
HONOLULU	89	76	91	74	83	2	1.1	1.0	1.0	1.5	876	8.2	57	88	60	5	0	2	1
KAHULUI	91	74	95	70	83	4	T	-.3	T	.6	633	8.4	68	94	56	6	0	1	0
LIHUE	85	76	88	74	80	1	.2	-.3	.2	.4	58	17.2	64	90	69	0	0	1	0
ID BOISE	77	46	87	34	61	-4.4	T	-.1	T	.1	29	4.3	55	59	17	0	0	1	0
LEWISTON	75	49	86	40	62	-4.4	.1	-.1	.1	.1	36	7.6	85	63	22	0	0	1	0
POCATELLO	74	41	84	31	58	-3.3	T	-.1	T	.1	33	4.8	64	69	20	0	1	1	0
IL CHICAGO	74	56	84	47	65	-1.1	1.3	.3	1.1	1.3	76	17.5	69	98	51	0	0	3	1
MOLINE	73	53	81	45	63	-4.4	3.2	2.3	2.4	3.6	230	26.5	94	99	58	0	0	3	1
PEORIA	76	55	83	46	66	-2.2	3.0	2.2	1.8	3.7	242	20.5	78	98	51	0	0	3	2
QUINCY	76	55	87	47	66	-3.3	.7	-.3	.6	.9	50	18.4	65	86	48	0	0	2	1
ROCKFORD	72	53	81	44	63	-2.2	2.4	1.5	1.5	2.5	165	19.7	72	96	55	0	0	3	2
SPRINGFIELD	81	56	92	43	69	-1.1	.8	.0	.6	.9	68	18.9	74	98	45	1	0	2	1
IN EVANSVILLE	82	61	90	51	72	0	.4	-.3	.2	.7	63	26.4	86	97	50	1	0	3	0
FORT WAYNE	75	55	84	46	65	-1.1	2.6	2.0	2.0	3.4	322	28.8	113	99	59	0	0	5	1
INDIANAPOLIS	78	59	86	50	69	0	1.1	.4	.5	1.2	106	29.4	102	96	52	0	0	5	0
SOUTH BEND	74	56	83	49	65	-1.1	3.8	3.0	2.4	5.0	376	23.6	87	97	56	0	0	2	2
IA DES MOINES	74	52	81	45	63	-4.4	1.4	.6	.9	2.3	173	23.2	95	94	52	0	0	2	1
SIoux CITY	71	47	77	39	59	-6.6	.8	.1	.7	2.4	218	24.0	116	98	58	0	0	2	1
WATERLOO	73	47	80	35	60	-4.4	.2	-.6	.2	.7	50	21.5	83	97	51	0	0	2	0
KS CONCORDIA	79	52	86	45	66	-4.4	.1	-.6	.1	.5	40	30.6	140	85	39	0	0	1	0
DODGE CITY	81	54	92	47	68	-3.3	T	-.5	T	T	2	18.0	106	89	40	1	0	0	0
GOODLAND	79	49	94	41	64	-2.2	.0	-.4	.0	3.5	562	23.8	177	92	34	1	0	0	0
TOPEKA	81	53	88	44	67	-3.3	T	-.8	T	.6	41	23.9	93	95	48	0	0	1	0
WICHITA	84	59	94	51	72	-1.1	.4	-.4	.4	1.4	103	24.9	115	87	42	2	0	1	0
KY BOWLING GREEN	83	61	88	48	72	-1.1	T	-.7	T	.7	53	26.6	74	97	52	0	0	1	0
LEXINGTON	80	60	88	48	70	0	.4	-.5	.3	.4	25	40.1	116	94	54	0	0	2	0
LOUISVILLE	82	62	89	51	72	0	.4	-.5	.2	1.1	80	31.1	97	95	51	0	0	2	0
LA BATON ROUGE	93	71	95	67	82	3	.4	-.7	.2	.5	28	55.3	132	97	52	6	0	2	0
LAKE CHARLES	91	71	93	68	81	2	T	-1.4	T	1.7	72	47.3	125	99	60	7	0	0	0
NEW ORLEANS	91	72	92	70	82	2	.6	-.9	.3	1.9	74	55.8	126	100	56	6	0	4	0
SHREVEPORT	90	69	93	61	80	1	.2	-.6	.2	2.2	172	33.9	107	94	46	4	0	1	0

Based on 1951-80 normals.

Weather Data for the Week Ending September 12, 1992

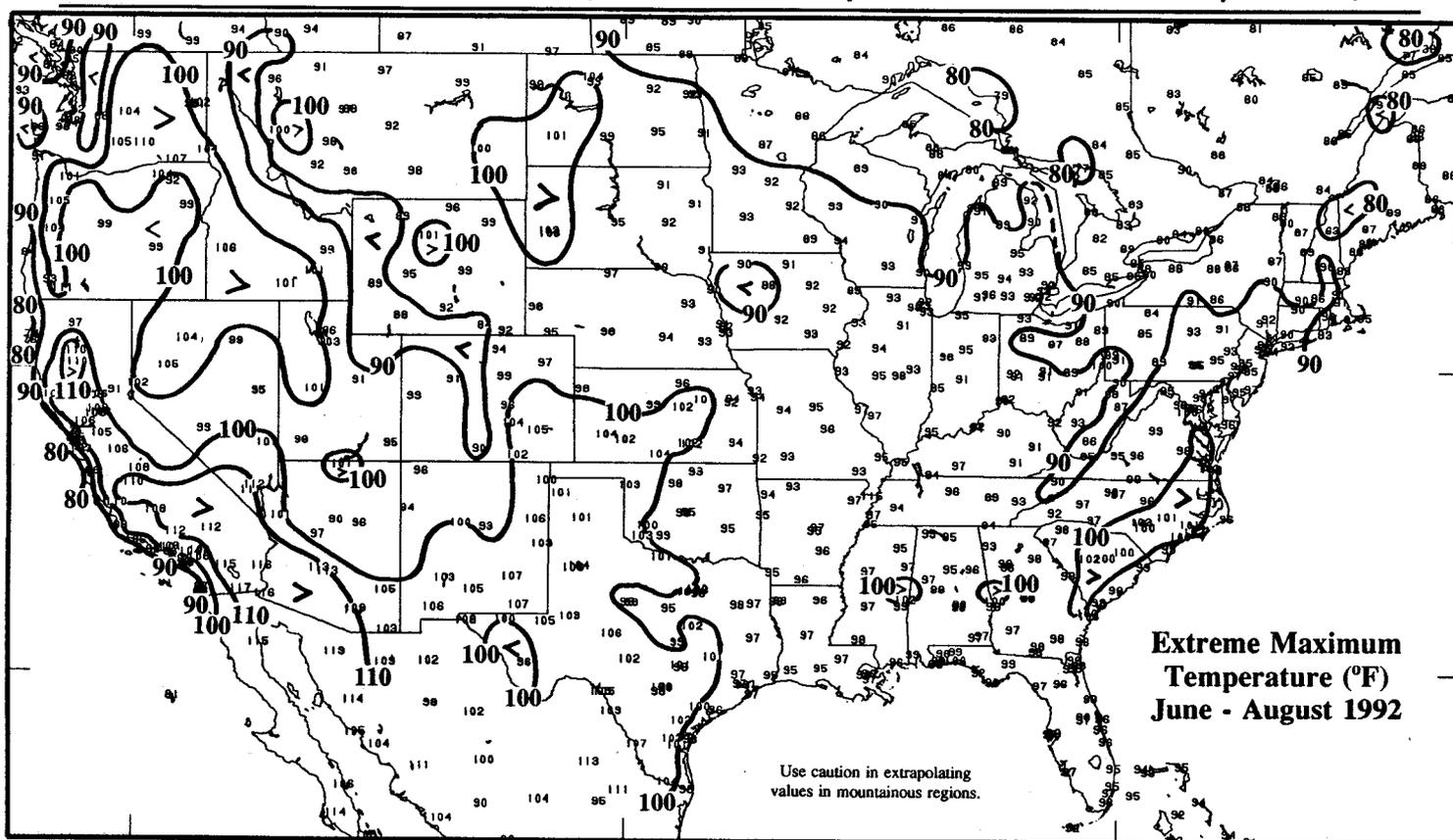
STATES  AND  STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS					
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Sept 1	PCT. NORMAL SINCE Sept 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE	MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	
																			.50 INCH OR MORE	OR MORE
ME CARIBOU	72	50	79	40	61	5	.1	-.8	.0	.2	11	28.3	113	95	54	0	0	0	0	0
PORTLAND	71	55	83	45	63	5	.1	-.7	.1	1.4	113	27.8	98	97	63	0	0	0	0	0
MD BALTIMORE	80	65	88	52	72	5	2.1	1.3	1.6	2.6	178	24.8	82	99	63	0	0	0	0	0
SALISBURY	80	65	87	53	72	5	1.5	1.6	1.7	2.7	158	31.5	96	100	65	0	0	0	0	0
MA BOSTON	74	62	85	53	68	5	.7	-.1	.3	1.6	117	25.9	87	93	65	0	0	0	0	0
CHATHAM	69	58	72	51	63	5	.4	-.5	.4	1.2	75	28.1	89	98	70	0	0	0	0	0
MI ALPENA	69	44	79	35	57	5	.5	-.2	.4	1.2	43	16.9	91	98	55	0	0	0	0	0
DETROIT	73	55	81	46	64	5	2.3	1.8	1.8	2.8	289	25.9	114	95	56	0	0	0	0	0
FLINT	72	53	81	46	62	5	1.9	1.3	1.1	2.0	193	27.8	130	97	57	0	0	0	0	0
GRAND RAPIDS	72	52	81	44	62	5	3.1	2.3	2.1	3.2	244	28.5	120	98	61	0	0	0	0	0
HOUGHTON LAKE	67	51	73	35	59	5	.3	-.4	.2	1.3	30	16.7	83	96	63	0	0	0	0	0
LANSING	72	50	81	43	61	5	.3	-.4	.2	1.3	144	25.3	118	97	59	0	0	0	0	0
MARQUETTE	64	40	78	30	52	5	.2	-.2	.2	1.4	28	19.7	75	92	63	0	0	0	0	0
MUSKEGON	72	51	83	43	62	5	1.5	1.4	1.4	1.6	131	16.3	92	95	60	0	0	0	0	0
SAULT ST. MARIE	66	42	72	34	54	5	1.8	1.9	1.3	2.4	152	20.8	92	93	68	0	0	0	0	0
MN ALEXANDRIA	67	48	74	40	58	5	.4	-.4	.1	1.3	123	16.6	85	92	50	0	0	0	0	0
DULUTH	64	45	74	39	54	4	.4	-.4	.3	2.6	184	23.2	103	91	51	0	0	0	0	0
INT'L FALLS	63	43	77	39	53	4	1.1	1.4	.9	2.0	152	20.1	109	97	56	0	0	0	0	0
MINNEAPOLIS	69	49	74	41	59	4	.1	-.1	.1	1.6	143	21.0	100	91	52	0	0	0	0	0
ROCHESTER	69	47	74	39	58	4	.5	-.5	.4	1.8	128	17.3	79	96	57	0	0	0	0	0
MS GREENWOOD	90	67	94	55	78	5	.7	-.8	.8	1.3	20	31.7	83	95	45	4	4	4	4	4
JACKSON	90	66	93	54	78	5	.7	-.9	.0	1.4	95	31.9	83	100	48	5	5	5	5	5
MERIDIAN	91	67	93	58	79	5	.0	-.0	.0	1.1	6	46.0	116	91	43	3	3	3	3	3
MO CAPE GIRARDEAU	82	60	89	49	71	5	2.5	1.6	1.4	3.1	191	26.0	79	98	52	0	0	0	0	0
COLUMBIA	80	56	89	47	68	5	1.7	1.7	.7	1.7	112	20.1	74	96	48	0	0	0	0	0
KANSAS CITY	77	54	84	47	65	5	.4	-.6	.3	4.0	233	38.7	142	98	59	0	0	0	0	0
SAINT LOUIS	81	62	91	54	72	5	2.0	1.4	1.0	2.2	205	21.5	85	91	42	2	2	2	2	2
SPRINGFIELD	80	59	89	48	70	5	4.0	3.0	2.1	4.2	253	30.8	108	94	49	0	0	0	0	0
MT BILLINGS	70	45	81	38	58	5	.3	-.0	.2	1.1	108	10.1	89	74	30	0	0	0	0	0
GLASGOW	69	41	79	32	55	4	.1	-.1	.1	.5	35	7.3	79	83	26	1	1	1	1	1
GREAT FALLS	66	39	80	29	52	4	.2	-.1	.1	.3	39	11.2	82	81	22	0	0	0	0	0
HAVRE	67	38	79	28	52	4	.1	-.2	.1	.2	19	6.3	66	87	32	0	0	0	0	0
HELENA	69	40	82	28	54	4	.1	-.1	.0	.1	19	6.7	73	72	22	2	2	2	2	2
KALISPELL	66	34	72	27	50	4	.3	-.0	.2	.3	60	12.1	107	89	25	0	0	3	3	3
MILES CITY	73	45	84	37	59	4	.8	-.6	.5	1.2	258	12.4	108	80	23	0	0	1	1	1
MISSOULA	67	38	82	28	53	4	.2	-.0	.2	.4	86	8.9	93	89	29	0	0	1	1	1
NE GRAND ISLAND	75	47	82	41	61	4	.5	-.0	.5	.8	76	26.1	136	91	45	0	0	0	0	0
LINCOLN	77	50	83	43	64	4	.7	-.7	.7	1.7	134	20.8	94	93	47	0	0	0	0	0
NORFOLK	73	47	78	38	60	4	1.0	-.5	1.0	2.3	250	23.1	117	89	49	0	0	0	0	0
NORTH PLATTE	76	47	83	40	62	4	.1	-.1	.1	.3	35	21.6	131	93	40	0	0	0	0	0
OMAHA	74	51	80	44	63	4	.3	-.3	.2	2.3	149	26.6	101	91	56	0	0	0	0	0
SCOTTSBLUFF	79	44	88	37	62	4	.7	-.3	.2	.1	33	13.0	106	87	23	0	0	0	0	0
VALENTINE	76	45	87	34	60	4	.5	-.2	.5	1.1	168	17.0	114	86	34	0	0	0	0	0
NV RLY	81	39	85	32	60	4	.0	-.0	.0	.9	0	7.1	108	42	12	1	1	1	1	1
LAS VEGAS	99	71	102	69	85	4	.0	-.0	.0	.0	0	0	240	25	10	0	0	0	0	0
RENO	85	46	90	41	65	4	.0	-.1	.0	.0	0	3.0	60	57	13	1	1	1	1	1
WINNEMUCCA	82	42	91	33	62	4	.0	-.1	.0	.0	50	2.1	38	54	15	0	0	0	0	0
NH CONCORD	76	55	85	40	66	4	.4	-.3	.4	1.2	95	20.3	82	99	55	0	0	0	0	0
NJ ATLANTIC CITY	78	64	83	50	71	4	.9	-.2	.4	1.6	127	25.2	84	99	66	0	0	0	0	0
NM ALBUQUERQUE	90	57	91	50	74	4	.0	-.2	.0	.7	11	8.3	144	51	13	4	4	4	4	4
CLOVIS	84	59	93	56	72	4	.2	-.3	.2	.4	55	18.5	141	90	30	2	2	2	2	2
ROSWELL	92	62	101	57	77	4	.1	-.4	.1	.1	8	12.0	152	71	25	4	4	4	4	4
NY ALBANY	75	58	85	43	67	4	1.0	-.2	1.0	1.3	95	20.7	84	96	56	0	0	0	0	0
BINGHAMTON	70	54	79	44	62	4	.8	-.0	.8	1.4	107	28.7	111	96	65	0	0	0	0	0
BUFFALO	73	55	80	41	64	4	.9	-.1	.5	2.0	140	32.5	127	90	57	0	0	0	0	0
NEW YORK	79	65	87	56	72	4	.1	-.5	.1	1.5	104	24.6	82	91	58	0	0	0	0	0
ROCHESTER	75	54	81	42	65	4	.9	-.1	.8	1.8	68	26.3	119	93	58	0	0	0	0	0
SYRACUSE	76	55	86	40	65	4	1.2	-.4	.9	1.7	127	31.8	116	92	56	0	0	0	0	0
NC ASHEVILLE	81	63	85	57	72	4	.2	-.7	.2	1.4	84	37.1	115	99	56	0	0	0	0	0
CHARLOTTE	85	68	89	64	77	4	.8	-.1	.8	3.4	227	34.1	107	94	51	0	0	0	0	0
GREENSBORO	83	65	88	59	74	4	.7	-.2	.7	1.4	96	30.2	97	97	58	0	0	0	0	0
HATTERAS	85	71	88	70	78	4	.9	-.5	.4	1.4	59	42.8	111	96	62	0	0	0	0	0
NEW BERN	87	68	91	62	78	4	.0	-.2	.8	.9	36	39.1	98	96	51	1	1	1	1	1
RALEIGH	84	65	88	56	75	4	1.0	-.5	.9	1.4	97	31.1	100	98	57	0	0	0	0	0
WILMINGTON	87	68	90	61	77	4	.2	-.3	.9	1.9	49.7	122	97	58	1	1	1	1	1	
ND BISMARCK	67	43	84	36	55	4	.5	-.1	.5	1.1	192	10.9	86	90	48	0	0	0	0	0
FARGO	66	46	79	36	56	4	.4	-.3	.4	1.5	179	16.8	107	91	53	0	0	0	0	0
GRAND FORKS	65	44	78	37	54	4	.8	-.5	.6	1.2	137	15.1	103	94	52	0	0	0	0	0
WILLISTON	67	40	79	35	54	4	.4	-.1	.3	.6	96	10.6	96	85	34	0	0	0	0	0
OH AKRON-CANTON	75	56	82	44	65	4	.2	-.1	.1	.7	52	32.7	123	97	59	0	0	0	0	0
CINCINNATI	76	58	85	47	67	4	.2	-.2	.2	1.3	108	28.8	97	99	59	0	0	0	0	0
CLEVELAND	76	56	84	46	66	4	1.0	-.3	.9	1.8	144	33.9	132	95	58	0	0	0	0	0
COLUMBUS	78	57	85	46	68	4	.4	-.3	.2	.5	40	31.2	111	97	54	0	0	0	0	0
DAYTON	77	57	85	46	67	4	.7	-.1	.3	.8	76	31.0	119	98	55	0	0	0	0	0

Based on 1951-80 normals.

Weather Data for the Week Ending September 12, 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 Sept 1	PCT. NORMAL SINCE Sept 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE	MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE		
																			.50 INCH OR MORE	OR MORE	
TOLEDO	75	54	84	45	65	0	1.8	1.2	1.0	2.0	185	25.3	109	98	55	0	0	0	5	2	
YOUNGSTOWN	74	52	83	38	63	-1	1.8	1.1	1.5	1.4	107	29.3	108	100	62	0	0	0	3	0	
OK OKLAHOMA CITY	86	65	92	58	76	0	1.0	1.2	1.8	2.1	153	30.2	129	91	54	3	0	0	2	1	
TULSA	86	64	92	54	75	-1	1.1	1.1	1.5	1.8	104	29.0	102	89	48	3	0	0	4	1	
OR ASTORIA	65	45	73	38	55	-1.4	.5	1.1	1.5	.7	71	26.6	67	96	51	0	0	0	3	0	
BURNS	73	37	84	25	55	-1.6	T	1.1	1.1	.1	74	6.2	97	72	20	0	1	0	0	0	
MEDFORD	84	48	96	40	66	-1.1	.0	1.1	1.0	T	17	7.5	67	81	24	1	0	0	0	0	
PENDLETON	75	49	83	40	62	-1.4	T	1.1	1.1	T	0	5.1	66	59	20	0	0	0	0	0	
PORTLAND	73	52	83	42	63	-1.1	T	1.3	1.3	.1	9	15.6	72	87	39	0	0	0	1	0	
SALEM	75	47	85	39	61	-2	-2	1.2	1.2	.0	14	16.6	72	86	32	0	0	0	2	0	
PA ALLENTOWN	76	60	84	46	68	-2	1.1	1.4	1.5	1.5	90	26.6	85	97	62	0	0	0	4	2	
ERIE	74	59	82	47	67	-2	2.0	1.1	1.5	3.6	226	28.2	104	92	60	0	0	0	4	1	
HARRISBURG	76	63	85	53	69	0	2.4	1.5	2.4	2.4	161	21.0	75	93	62	0	0	0	1	1	
PHILADELPHIA	80	65	87	54	72	2	1.0	1.2	1.8	1.1	75	19.4	65	92	58	0	0	0	4	1	
PITTSBURGH	77	57	84	43	67	1	.6	1.1	1.3	.9	75	27.0	99	94	56	0	0	0	3	0	
SCRANTON	75	58	86	45	67	2	.7	1.1	1.6	.7	53	19.2	78	96	60	0	0	0	3	1	
RI PROVIDENCE	76	62	85	51	69	4	.4	1.4	1.3	2.4	169	31.4	102	96	61	0	0	0	2	0	
SC CHARLESTON	86	71	89	69	78	1	.9	1.3	1.7	1.9	85	40.6	100	100	65	0	0	0	4	1	
COLUMBIA	88	70	91	65	79	2	.8	1.3	1.7	2.3	121	36.2	94	96	52	2	0	0	2	1	
FLORENCE	87	69	89	64	78	2	.6	1.4	1.3	3.3	189	35.8	105	97	58	0	0	0	3	0	
GREENVILLE	84	64	88	61	74	1	.3	1.8	1.3	1.2	62	38.2	101	99	58	0	0	0	2	0	
SD ABERDEEN	70	46	82	32	58	-3	1.4	1.0	1.2	1.6	256	14.6	99	94	48	0	1	2	2	1	
HURON	70	47	79	37	58	-5	1.4	1.1	1.0	2.4	425	20.7	136	91	50	0	0	0	2	1	
RAPID CITY	76	44	91	38	60	-3	.3	1.0	1.2	.4	95	11.9	86	75	24	1	0	0	2	0	
SIOUX FALLS	69	46	76	36	57	-6	.6	1.1	1.6	2.9	244	27.8	144	94	52	0	0	0	2	1	
TN CHATTANOOGA	85	65	88	59	75	1	.3	1.7	1.3	2.5	143	37.7	99	100	55	0	0	0	1	0	
KNOXVILLE	85	64	89	57	75	1	.3	1.4	1.2	.6	50	29.0	84	98	51	0	0	0	2	0	
MEMPHIS	88	67	92	55	77	1	.0	1.9	1.0	.4	26	31.9	84	88	49	3	0	0	0	0	
NASHVILLE	85	63	90	53	74	0	.2	1.7	1.2	1.4	92	28.8	81	94	50	2	0	0	2	0	
TX ABILENE	90	69	93	65	80	2	.4	1.3	1.4	1.7	139	23.0	135	88	43	5	0	0	1	0	
AMARILLO	85	59	95	55	72	1	.1	1.3	1.1	.1	15	18.9	121	89	35	3	0	1	0	0	
AUSTIN	94	72	96	68	83	3	.5	1.4	1.4	1.1	84	36.8	171	96	42	7	0	0	2	0	
BEAUMONT	92	72	93	70	82	2	.5	1.8	1.5	1.2	51	48.0	122	100	56	7	0	1	1	0	
BROWNSVILLE	93	75	95	73	84	2	2.6	1.3	2.5	2.6	126	23.5	146	93	51	6	0	0	3	1	
CORPUS CHRISTI	92	75	93	74	84	1	1.0	1.6	1.7	1.0	38	31.8	145	94	53	6	0	0	4	1	
DEL RIO	94	73	98	68	83	2	T	1.6	T	T	0	18.2	152	77	34	5	0	0	1	0	
EL PASO	96	65	100	61	81	4	T	1.3	T	T	1	9.4	172	53	15	7	0	0	0	0	
FORT WORTH	90	72	95	67	81	1	1.9	1.1	1.9	2.4	184	30.5	137	90	51	3	0	1	1	1	
GALVESTON	89	79	90	72	84	3	.1	1.5	1.0	1.8	71	38.2	137	84	63	3	0	0	2	0	
HOUSTON	92	72	95	69	82	2	.2	1.1	1.2	.5	25	41.4	128	100	56	7	0	0	1	0	
LUBBOCK	89	65	97	61	77	4	.0	1.5	1.0	.6	71	19.5	143	88	40	4	0	0	0	0	
MIDLAND	92	65	98	59	78	2	T	1.5	T	T	2	19.9	202	91	35	5	0	0	0	0	
SAN ANGELO	93	69	97	62	81	3	.0	1.7	1.0	.3	23	18.0	142	87	33	6	0	0	0	0	
SAN ANTONIO	95	74	97	69	84	3	1.1	1.2	1.8	1.1	71	39.9	197	92	40	7	0	0	3	1	
VICTORIA	94	74	96	72	84	3	.2	1.3	1.2	.3	12	40.9	160	97	49	7	0	0	2	0	
WACO	96	73	100	68	85	4	1.7	1.9	1.7	2.1	178	29.7	137	92	41	6	0	0	1	1	
WICHITA FALLS	90	67	97	62	79	0	.6	1.2	1.4	.9	66	21.2	110	93	49	4	0	0	2	0	
UT CEDAR CITY	83	50	86	45	67	1	.0	1.2	1.0	T	0	8.4	114	51	18	0	0	0	0	0	
SALT LAKE CITY	80	52	87	45	66	-1	.0	1.2	1.0	.5	136	7.5	69	64	20	0	0	0	0	0	
VT BURLINGTON	75	57	85	42	66	5	1.1	1.3	1.0	1.8	135	20.3	86	93	54	0	0	0	2	1	
VA NORFOLK	82	70	89	65	76	2	.5	1.5	1.5	1.5	83	36.5	110	94	60	0	0	0	2	1	
RICHMOND	83	65	89	53	74	2	1.4	1.5	1.6	1.9	130	33.9	107	99	58	0	0	0	4	2	
ROANOKE	83	64	87	55	73	3	.3	1.4	1.2	1.1	86	31.9	113	98	52	0	0	0	3	0	
WA QUILLAYUTE	64	45	71	40	55	-3	1.5	1.3	1.2	1.6	81	53.9	88	96	57	0	0	0	2	1	
SEATTLE-TACOMA	69	51	77	45	60	-1	.2	1.3	1.2	.2	35	19.9	91	88	41	0	0	0	1	0	
SPOKANE	71	43	77	34	57	-5	.1	1.1	1.1	.1	43	8.3	79	71	21	0	0	0	2	0	
YAKIMA	75	43	82	33	59	-4	T	1.1	T	T	0	4.0	82	78	26	0	0	0	0	0	
WV BECKLEY	79	58	84	44	69	4	.2	1.6	1.2	.6	37	29.6	94	93	52	0	0	0	2	0	
CHARLESTON	83	61	91	47	72	2	-1	1.7	1.1	.1	7	31.2	98	99	52	1	0	0	2	0	
HUNTINGTON	83	60	89	49	71	1	.0	1.7	1.0	.6	6	29.3	95	97	50	0	0	0	0	0	
PARKERSBURG	81	58	87	47	70	0	.4	1.4	1.5	.5	45	26.9	94	98	54	0	0	0	1	0	
WI GREEN BAY	68	50	75	41	59	-2	.4	1.4	1.2	.5	36	16.7	80	95	59	0	0	0	2	0	
LACROSSE	70	52	75	45	61	-3	.8	1.0	1.6	2.0	132	21.1	90	94	54	0	0	0	2	1	
MADISON	71	52	79	40	61	-1	1.4	1.7	1.8	1.8	139	19.7	84	91	55	0	0	0	3	2	
MILWAUKEE	71	56	80	51	64	0	1.5	1.8	1.1	2.0	169	22.6	98	94	59	0	0	0	4	1	
WAUSAU	65	49	72	40	57	-2	.9	1.1	1.4	3.4	202	21.2	88	98	60	0	0	0	4	0	
WY CASPER	77	42	86	35	59	-1	.1	1.1	1.0	.1	18	7.1	81	65	17	0	0	0	2	0	
CHEYENNE	74	44	85	37	59	-1	T	1.3	T	T	0	10.3	92	72	22	0	0	0	0	0	
LANDER	73	45	80	39	59	-2	T	1.2	T	T	10	10.3	103	61	21	0	0	0	1	0	
SHERIDAN	70	40	81	34	55	-5	.2	1.1	1.2	.3	77	11.5	99	85	31	0	0	0	1	0	

Based on 1951-80 normals.



Temperatures rarely topped 90°F in the northern half of the Nation east of the Rockies during the summer of 1992. Minneapolis, MN, reached 90°F on only 3 days, compared to a normal of 14 days. Crop-threatening heat was non-existent in the Corn Belt. But in the West, Sacramento, CA, had 90°F+ heat on 39 consecutive days between July 13 and August 20, to set a record for that location.

## Summer Weather Review

**HIGHLIGHTS:** Midwestern crops received abundant moisture during crucial reproductive phases in July, erasing spring dryness. Crops also benefited from below-normal temperatures except in the northern and western Corn Belt, where coolness seriously hindered development. But in the West, hot weather exacerbated the effects of the 6-year drought. Water supplies dwindled and wildfires raged.

Summer rainfall was generally above normal east of the Rockies, except for parts of the northern Plains, Midwest, Northeast, and southern Texas. Precipitation exceeded 150 percent of normal in the Southwest, central Plains, and Southeast. It was the wettest summer for the contiguous States since 1941.

Coolness east of the Rockies was memorable, and for the Nation as a whole, it was the coldest summer since 1915. Temperatures averaged up to 7°F below normal in the North Central States. In contrast, departures of up to +3°F were observed in the west coast States.

**JUNE:** Early summer featured a continuation of spring-like weather. Temperatures averaged up to 6°F below normal in the central Plains, and a freeze struck the northern Corn Belt on June 20, resulting in damage to corn and soybeans. But in the Northwest, a concurrent heat wave pushed the temperature to a June-record 101°F in Seattle, WA.

Rainfall was excessive during the first half of the month from the southern Plains to the Southeast. Cotton was adversely affected in Texas and Oklahoma. A major mid-month storm brought the first significant rain to the Northwest since April, but also spawned more than 150 tornadoes across the Midwest. Despite significant rain in the Corn Belt on the 17th, crop areas remained quite dry at month's end.

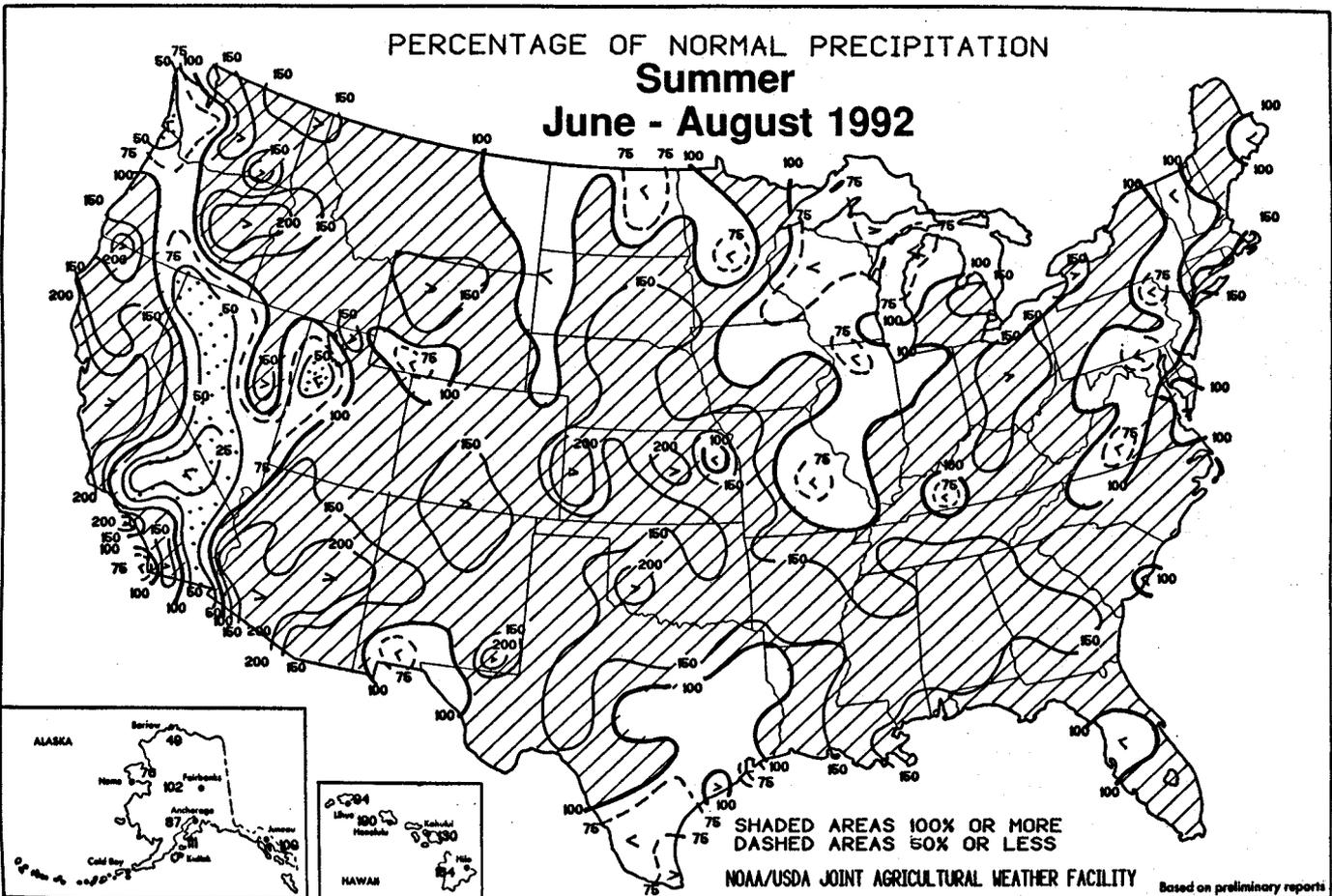
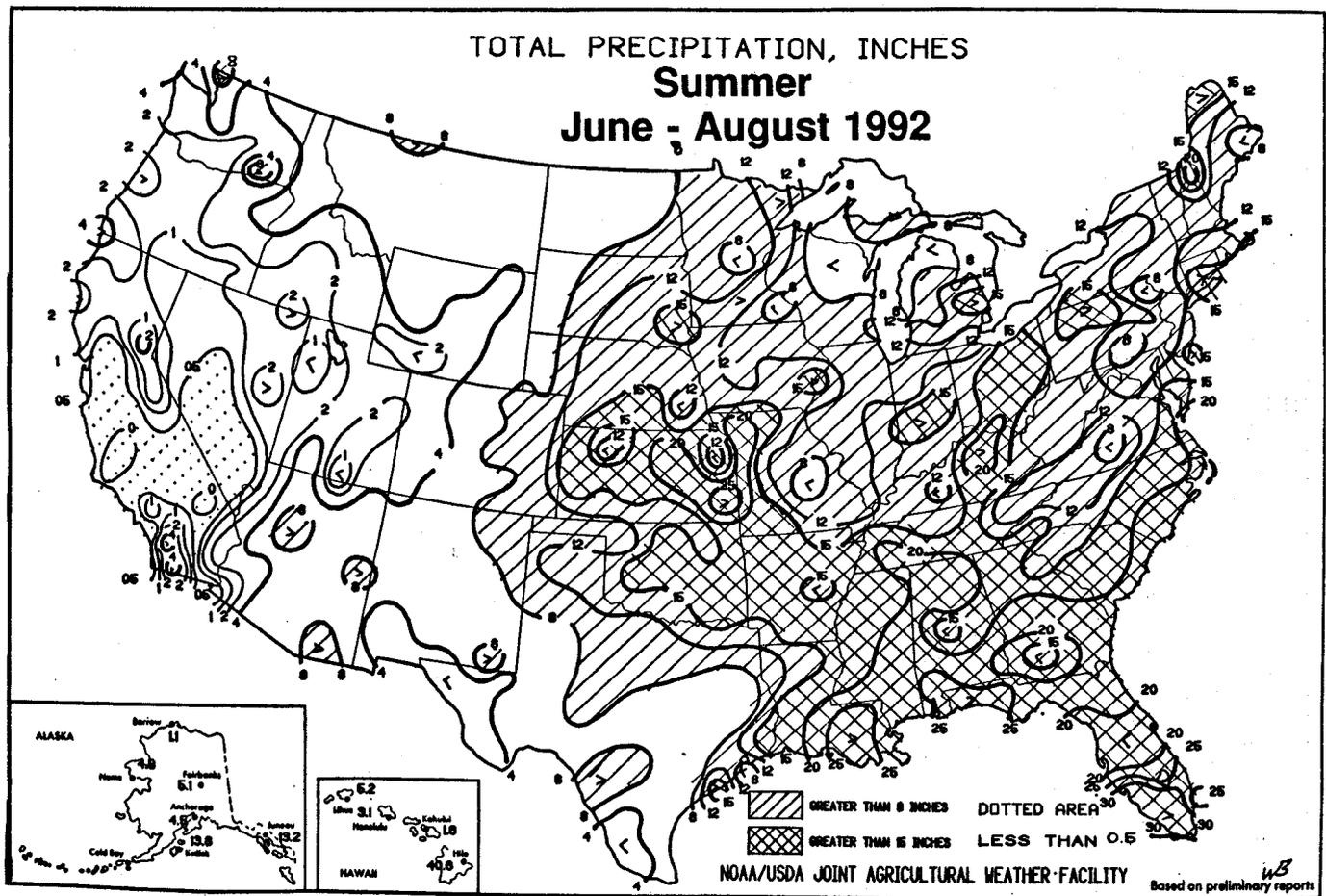
On June 26, a tropical depression made landfall on Florida's west coast, dumping up to 26 inches of rain north of Ft. Myers.

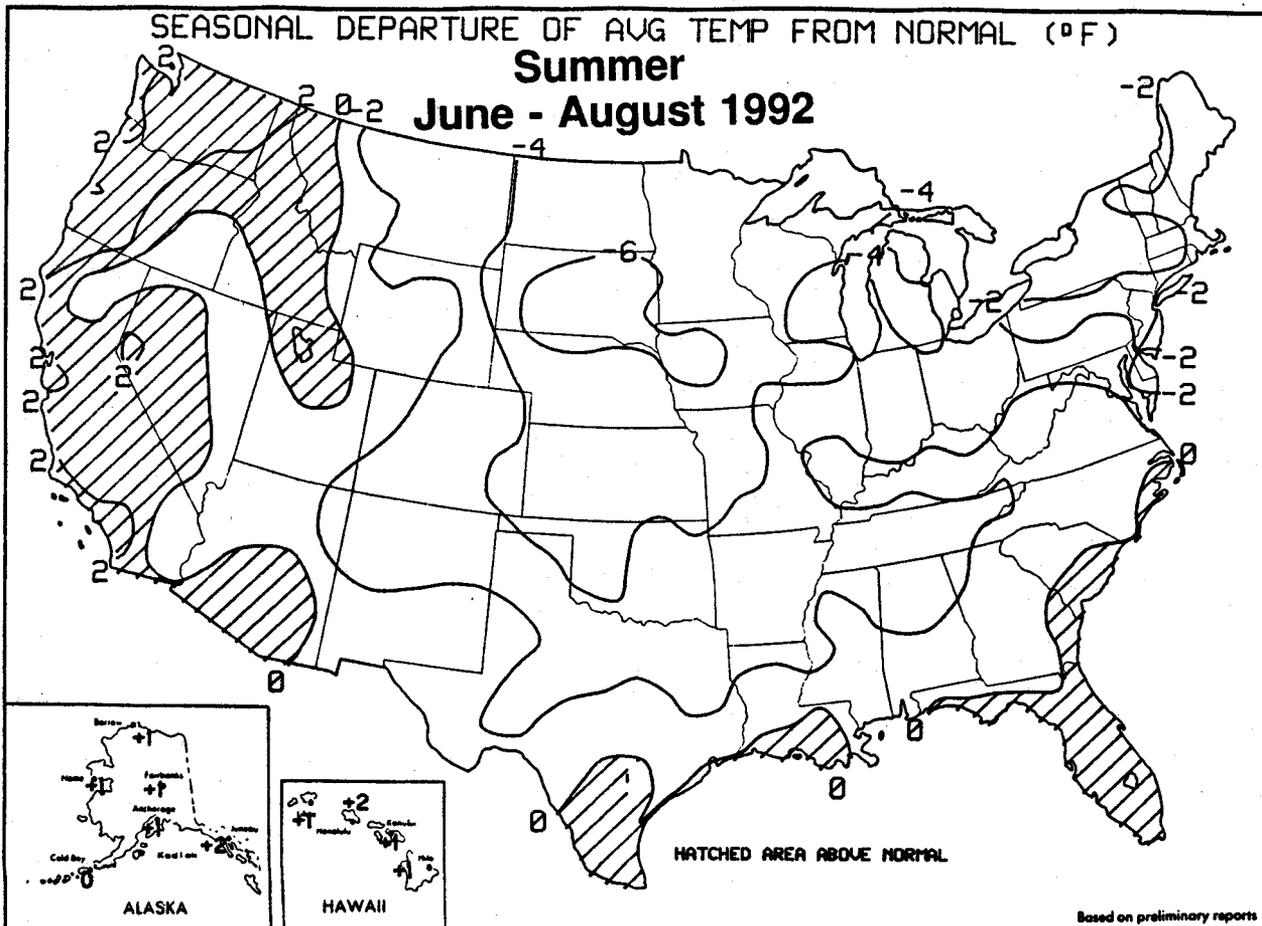
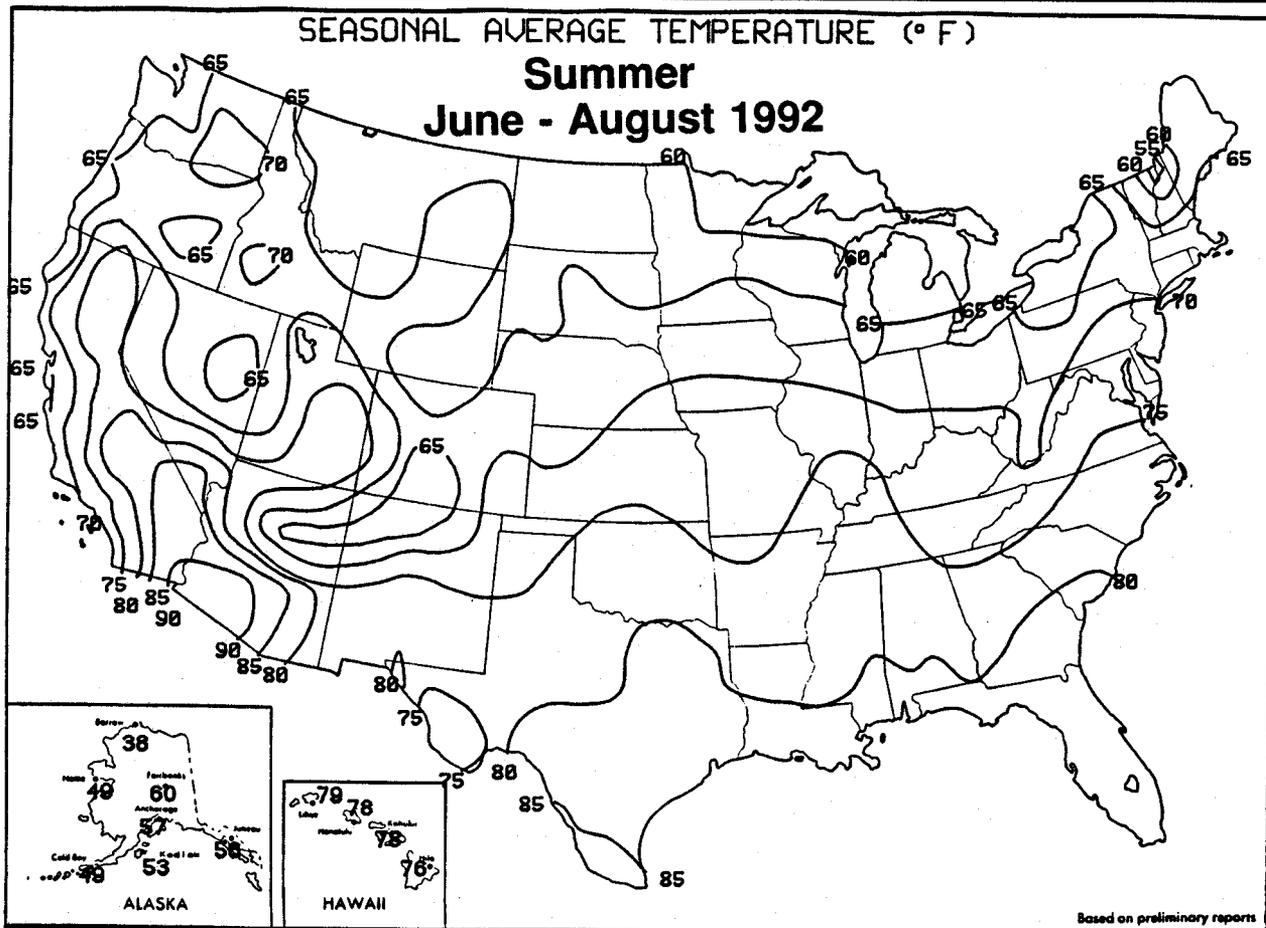
**JULY:** Temperatures averaged up to 9°F below normal in the North Central States, but the month's highlight was the return of rains to the Corn Belt. Crop conditions for corn, grain sorghum, soybeans, and spring wheat showed marked improvement. Summer made its boldest attempt at appearing across the South during the first half of the month, as temperatures soared above 100°F as far north as Pueblo, CO, and Norfolk, VA. But along the Canadian border, Sault Sainte Marie, MI, managed to reach 70°F for the first time in 19 days on July 7.

Rainfall was widespread east of the Rockies after July 9, and especially heavy from the central Plains to the Northeast. But in the Northwest, a continuation of hot, seasonably dry conditions led to the development of wildfires by month's end.

**AUGUST:** Hurricane "Andrew" stole headlines as the costliest natural disaster in U.S. history, but the overall weather pattern remained unchanged. Cold fronts made slightly more headway than in July, resulting in wetter conditions in the Southeast, and somewhat drier weather in the Midwest. Temperatures averaged more than 6°F below normal throughout the Central States. A late-month cold snap brought sub-freezing temperatures to the interior Northwest.

Hurricane "Andrew" devastated southern Dade County, FL, and also affected south-central Louisiana. Crop impacts included avocados and limes in southern Florida, and sugarcane in Louisiana. In the West, wildfires torched hundreds of square miles of mountainous terrain in nine Western States. The fires were largely contained by month's end as cooler air arrived.





# U.S. Summer Weather of 1992: 1915 Revisited

"Continued cool weather over the greater part of the important corn growing States is greatly delaying the maturing of that crop."

--National Weather and Crop Bulletin,  
August 31, 1915

"Corn progress remained severely delayed in the Corn Belt, as cool weather continued to inhibit development."

--Weekly Weather and Crop Bulletin,  
September 1, 1992

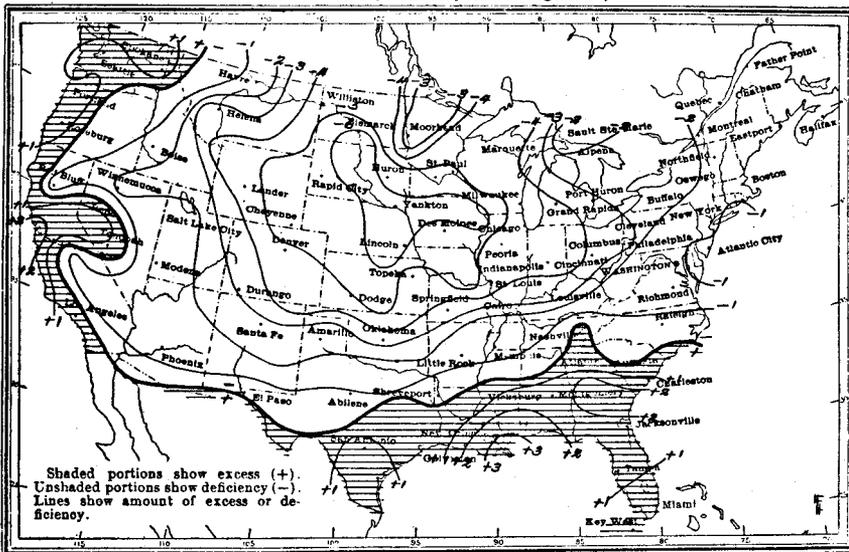
A spate of hot summers during the 1980's, culminating in the drought of 1988, made the Midwest's cooler- and wetter-than-normal summer weather in 1992 noticeable to even the most casual observer. For the contiguous States as a whole, it was the third coldest, third wettest summer since 1895, despite hot conditions in the Western States. Although cool, wet conditions have prevailed during about 10 percent of the summers during the past 98 years, it is the magnitude of the anomalies that are striking. Temperatures averaged more than 6°F below normal in the Central States for the 3-month summer period, and rainfall topped normal values in most areas east of the Rockies.

After the turn of the century, summer conditions in the United States remained quite cool for more than 25 years (compared to the 1895-1992 average). Wetness accompanied the coolness on several occasions (1906, 1907, 1912, 1915, 1920, and 1927). The summer of 1915 stands as the second coldest and wettest on record, and as a very close analog to the summer of 1992. Since then, only a handful of summers have had concomitant wet and cool conditions (1945, 1950, 1965, 1967, 1968, 1972). Temperature departure and percent of normal precipitation maps produced for the *National Weather and Crop Bulletin* in 1915 appear below, alongside maps for 1992. Note that the 1992 percent of normal precipitation map is abbreviated by 10 days.

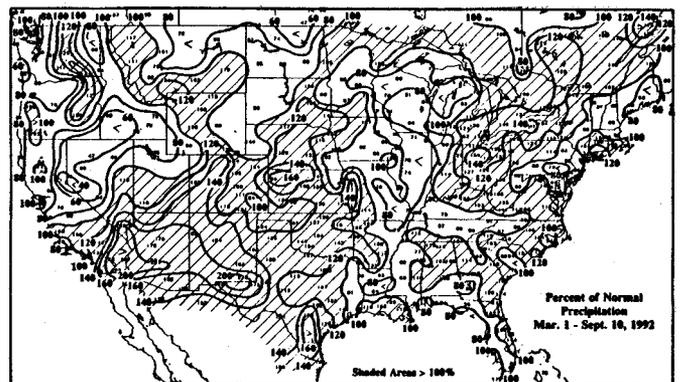
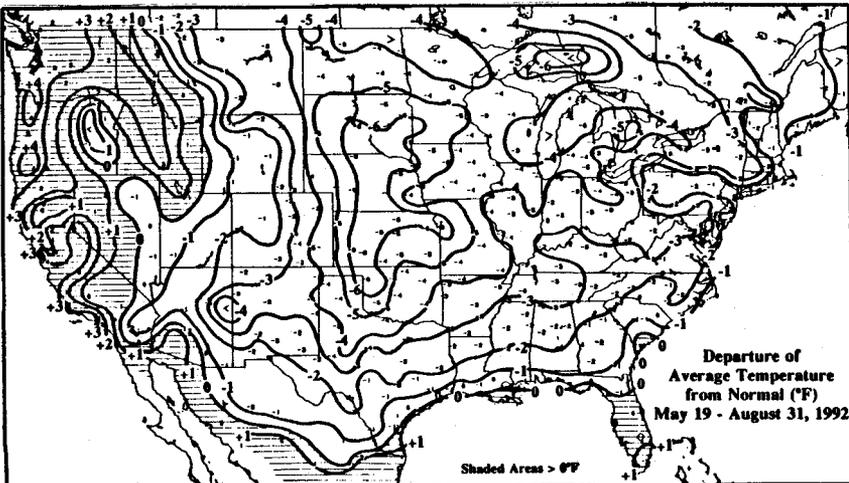
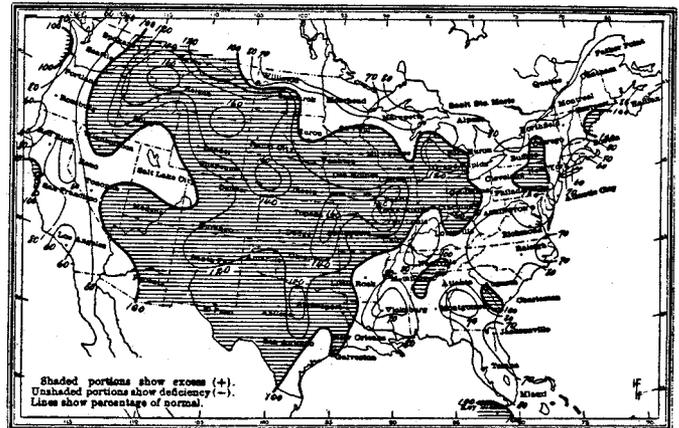
Looking specifically at U.S. corn yield, the impact of cool, moist weather is favorable, barring a freeze before maturity. The yield in 1915 (28.1 bushels per acre) was the second highest during the 1910's, behind 1912. That was despite an early October freeze that damaged immature corn in the northern and western Corn Belt. The 1915 yield was topped next in 1920 (29.9 bushels per acre) and not again until 1937 (28.9 bushels per acre). This year's (September 10) U.S. Department of Agriculture's forecast yield (121.4 bushels per acre) would be the highest on record.

--Brad Rippey

Average Daily Departure of Temperature, in Degrees Fahr., from the Normal, for the Fifteen-Week Period, from May 19 to August 31, 1915.



Percentage of the Normal Precipitation from March 1 to September 30, 1915.



# Hurricane "Iniki" Strikes Hawaii

Hurricane "Iniki" became the second major hurricane to batter the United States in the past month, tearing across Kauai Island, Hawaii, on September 11. The storm was weakening as it crossed Kauai, but still possessed 130 miles per hour (mph) sustained winds with gusts to 160 mph. It was the strongest hurricane to affect Hawaii since the National Weather Service opened offices there during World War II, and the first to strike since Hurricane "Iwa" hit on November 23, 1982.

The eye of "Iniki" crossed the southern Kauai coast at about 4 p.m. Hawaii Standard Time (10 p.m. Eastern Daylight Time) on September 11, preceded and accompanied by fierce winds and pounding surf. The storm's center tracked across the less populated, but agricultural, western half. Crops affected include sugarcane (see map below), papayas, and other assorted tropical plants, fruits, and nuts. About 100 miles to the east, on southern and western Oahu Island, damage was reported to bananas and sweet corn.

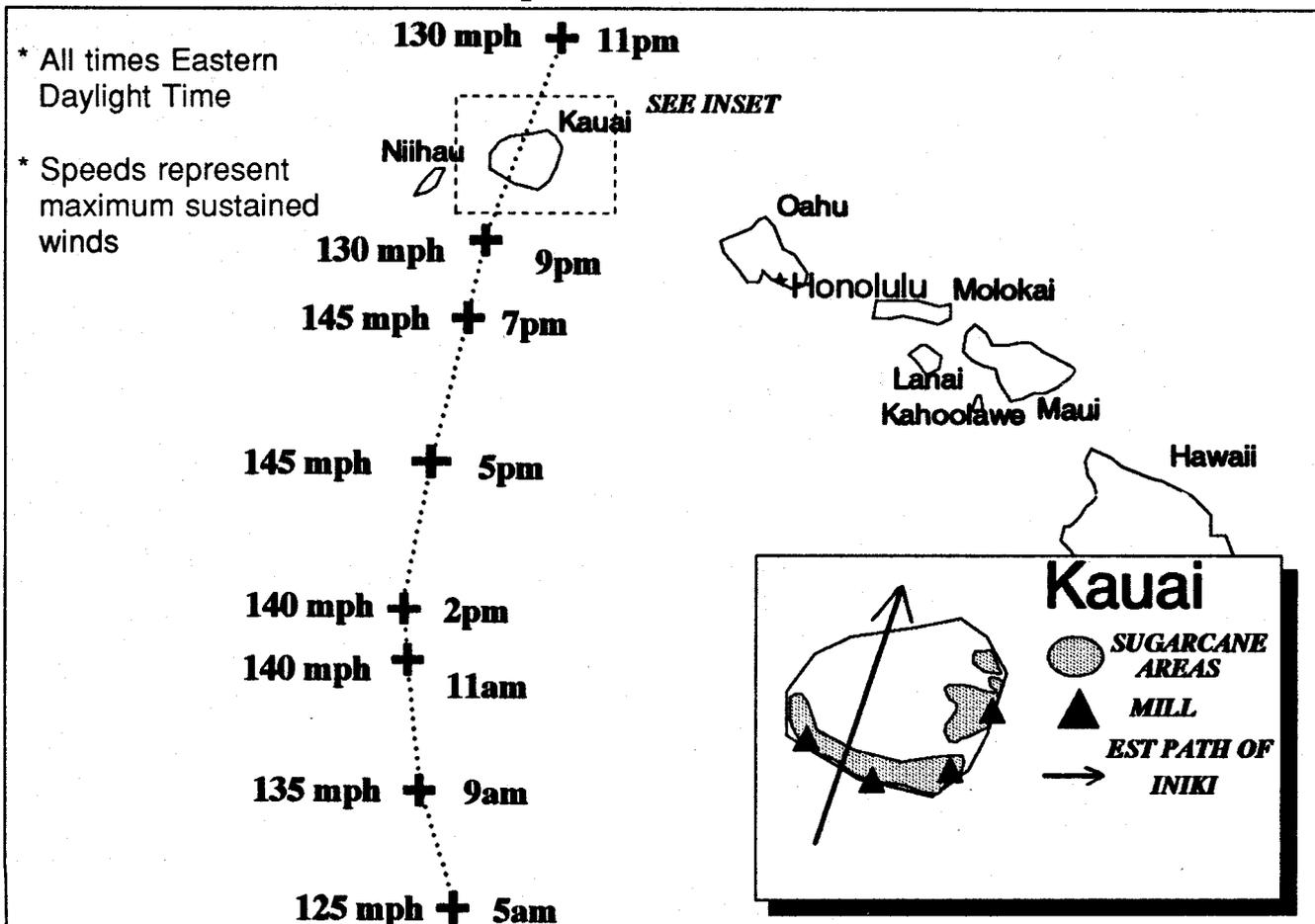
Tropical storms that form between 140° west longitude and the international dateline are given Hawaiian names. The National Hurricane

Center in Miami dubbed the nascent storm a tropical depression on September 5. The storm crossed into the Honolulu-based Central Pacific Hurricane Center's jurisdiction on September 6, and reached hurricane strength (74 mph sustained winds) 3 days later. Hurricane "Iniki" then pursued a west-northwesterly course until an approaching upper air trough forced it to turn northward and charge toward Kauai and privately owned Niihau Island.

Ten years ago, Hurricane "Iwa," which packed 90 mph winds with gusts to 110 mph, followed a similar course through the western islands. The *Weekly Weather and Crop Bulletin* from November 30, 1982, reported that "Sugar fields on Kauai were flattened and heavily wind-whipped.... Banana and papaya orchards were toppled.... Flowers and nursery products sustained heavy losses. Vegetable crops were twisted or battered.... Many immature guava and passion fruit fell to the ground. Structural damage [was reported] to livestock and poultry houses. Other islands escaped the storm with minor damage."

--Brad Rippey

## Hurricane "Iniki" September 11, 1992



## National Agricultural Summary

September 7 - 13, 1992

**HIGHLIGHTS:** Below-average temperatures across the northern two-thirds of the Nation and rain in the eastern half continued to delay crop development. Although crop prospects remained good, concern over the vulnerability of late-developing crops remained. Hurricane "Iniki" hit the Island of Kauai in Hawaii, causing damage to crops.

**SMALL GRAINS:** Winter wheat seedings progressed well as excellent planting conditions prevailed. For the 19 major producing States, 15 percent (%) of the acreage was seeded, compared to 14% a year ago and the 5-year average. Spring wheat harvesting continued to lag behind normal because of slow crop development across the Northern States. In the 5 major States, producers have harvested 63% of the acreage, compared to 99% in 1991. Harvest was nearly completed in Idaho. Harvest of barley and oats continued.

**CORN:** Concerns over late development of corn in the Corn Belt remained as unseasonably cool weather continued to cover the area. Eighty-nine percent of the crop was in the dough stage in the 17 major States, compared to 98% last year and 99% average. Sixty-one percent of the crop was dented, compared with 92% last year and 89% average. Only 17% of the crop was rated mature in the major States, compared with 60% last year and 52% average. Harvesting in the south continued where unhampered by rain. Crop condition rated mostly good in the major States.

**SOYBEANS:** Crop development continued to show varying degrees of progress. Delayed progress in the Northern States was evident as a result of cool summer weather. Progress from the lower Mississippi River through the Ohio River Valleys was more advanced. Leaves had dropped on 17% of the acreage in the 19 major producing States, compared with 39% last year, and 33% average. Adequate soil moisture continued to keep the crop in good condition.

**COTTON:** Cotton development continued to trail last year and average in the 14 major producing States. Boll opening was 40% complete, 8 points behind last year and the average. Cool, wet weather in the Central and Eastern States hampered development. Crop condition improved slightly and was rated in mostly fair condition.

**GRAIN SORGHUM:** Harvest continued in the South at an increased rate. Over half the crop has been harvested in Mississippi, Arkansas, and Louisiana. Coloring was 57% completed, compared to 81% last year and 78% average. The crop was rated 31% mature, compared to 49% last year and 43% average. Crop condition improved slightly from last week, with 76% rated good to excellent.

**RICE:** Favorable conditions allowed the rice harvest to advance ahead of last year's pace. Rice harvested was rated at 43% complete,

compared to 39% complete last year and 39% average. Harvest was underway in all growing areas of California. In southwest Louisiana, producers continued to fertilize and flood for a second crop.

**OTHER FIELD CROPS:** Rains through the Mississippi and Ohio Valleys hindered hay harvest and caused quality problems. Potato harvest was underway in the major producing areas, with over 10% dug in Idaho. Peanut harvest gained momentum in Texas and continued in the Southeast. Dry bean harvest increased, but still lagged behind last year's pace in New York, Minnesota, and North Dakota. Sugar beet harvest started in the North Central regions, and made normal progress. Flax harvest started in Minnesota. Sunflower condition in the North Central regions was rated mostly good to excellent. The Hawaiian sugar cane crop was damaged by Hurricane "Iniki". The extent of damage was not determined at this time.

**FRUITS AND NUTS:** Apple harvest gained momentum in the Northwest as conditions allowed the crop to advance rapidly. Harvest also picked up in New England and New Jersey. Cranberry harvest started in the Northwest, while preparations to begin harvest was made in Massachusetts. Harvest of peaches, plums and nectarines was completed in California, but late varieties remained to be picked. New crop fruit in Florida made normal progress, but no harvest reported. Yuba county walnut harvest began. Disease and insect control on Texas pecan tress continued. Hazelnut harvest started in Oregon.

**VEGETABLES:** The onion harvest continued in the West and started in the East. Planting fall crop vegetables continued in the Westside area and started in the desert area of California. Heavy leafminer infestation reported in the fall crop in the Westside area. Melon and processing-tomato harvest were winding down. Crop conditions were good in Florida. Planting and land preparation was active in all areas. Fall vegetable harvest continued in New Jersey as harvest of summer crops neared completion. The melon harvest was winding down in the Southwest. Vegetables in the Rio Grande were in good condition.

**PASTURES AND LIVESTOCK:** Moisture over the Central and Eastern States provided good to excellent pasture conditions, and adequate feed for livestock. In the west, dry weather stressed ranges and livestock, prompting the continued movement of livestock off poor pastures and supplemental feeding.

### Crop Progress

for the Week Ending September 13, 1992

#### COTTON (Bolls Opening)

	Current	Last Wk	1991	Avg.
AL	24	20	47	57
AZ	92	82	71	85
AR	30	15	48	56
CA	95	75	55	66
GA	36	26	45	59
LA	85	81	66	76
MS	65	45	66	77
MO	15	5	59	58
NM	35	8	43	41
NC	30	26	78	62
OK	16	10	11	9
SC	55	36	69	52
TN	28	11	53	55
TX	23	21	39	32
14 States	40	32	48	48

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

#### GRAIN SORGHUM (Percent Coloring)

	Current	Last Wk	1991	Avg.
AR	100	96	82	90
CO	41	18	53	53
IL	82	61	80	74
KS	35	30	70	65
LA	100	100	87	95
MS	100	100	88	93
MO	83	74	88	81
NE	43	32	93	87
NM	40	26	73	NA
OK	75	69	82	84
SD	26	22	81	85
TX	78	75	88	86
12 States	57	51	81	NA
Excl. States with NA	57	51	81	78

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

#### GRAIN SORGHUM (Percent Mature)

	Current	Last Wk	1991	Avg.
AR	86	67	67	67
CO	6	0	5	10
IL	16	6	49	45
KS	5	2	25	20
LA	98	95	76	84
MS	93	84	65	76
MO	43	35	46	43
NE	1	0	53	38
NM	4	2	5	NA
OK	12	11	18	16
SD	7	0	37	37
TX	70	67	78	72
12 States	31	27	48	NA
Excl. States with NA	31	28	49	43

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

#### CORN (Percent Dough)

	Current	Last Wk	1991	Avg.
CO	76	62	84	92
GA	100	100	100	100
IL	92	89	100	100
IN	99	97	100	100
IA	90	81	94	99
KS	99	99	100	100
KY	100	99	100	100
MI	40	25	97	90
MN	89	75	99	99
MO	100	98	100	100
NE	98	93	100	100
NC	95	93	100	100
OH	100	95	100	100
PA	84	69	94	86
SD	77	69	100	99
TX	99	96	100	100
WI	60	46	100	93
17 States	89	82	98	99

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

#### CORN (Percent Dented)

	Current	Last Wk	1991	Avg.
CO	48	39	61	69
GA	100	100	100	100
IL	72	54	99	91
IN	69	50	98	89
IA	61	44	84	93
KS	75	70	90	90
KY	90	85	94	85
MI	10	4	85	70
MN	39	19	94	92
MO	91	84	97	95
NE	71	55	97	94
NC	95	91	98	95
OH	65	45	100	86
PA	36	25	65	49
SD	40	23	95	90
TX	93	90	100	100
WI	25	11	83	75
17 States	61	45	92	89

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

#### CORN (Percent Mature)

	Current	Last Wk	1991	Avg.
CO	6	2	26	31
GA	100	98	100	100
IL	15	10	91	62
IN	11	7	73	52
IA	18	8	57	67
KS	60	40	75	65
KY	57	27	74	62
MI	0	0	30	20
MN	2	1	29	48
MO	40	30	77	69
NE	6	2	58	47
NC	84	78	94	88
OH	5	1	38	24
PA	4	2	22	12
SD	9	7	64	53
TX	70	67	76	84
WI	5	2	41	36
17 States	17	11	60	54

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

#### WINTER WHEAT (Percent Planted)

	Current	Last Wk	1991	Avg.
AR	0	0	0	0
CA	0	0	0	0
CO	25	7	14	22
GA	1	0	1	1
ID	19	16	10	9
IL	0	0	2	1
IN	2	0	4	2
KS	10	3	10	10
MI	5	0	10	4
MO	1	0	0	2
MT	10	2	23	21
NE	22	3	23	27
NC	3	0	5	4
OH	0	0	0	0
OK	19	11	18	11
OR	7	3	8	4
SD	29	9	40	40
TX	20	9	22	21
WA	53	40	17	31
19 States	15	7	14	14

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

#### SOYBEANS (Percent Dropping Leaves)

	Current	Last Wk	1991	Avg.
AL	10	5	10	14
AR	9	7	9	5
GA	12	5	20	20
IL	33	12	53	39
IN	24	7	63	41
IA	10	4	25	31
KS	15	10	50	35
KY	23	12	23	21
LA	28	18	5	14
MI	3	1	45	25
MN	7	3	36	64
MS	20	14	6	14
MO	19	7	21	18
NE	7	0	47	35
NC	9	4	9	6
OH	15	5	83	31
SC	1	0	4	2
SD	16	12	75	59
TN	10	5	10	18
19 States	17	NA	39	33
Excl. States with NA	17	7	39	33

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

#### RICE (Percent Harvested)

	Current	Last Wk	1991	Avg.
AR	31	13	21	20
CA	5	1	0	0
LA	79	69	77	77
MS	33	11	20	30
TX	73	66	94	94
5 States	43	29	39	39

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

#### SPRING WHEAT (Percent Harvested)

	Current	Last Wk	1991	Avg.
ID	99	95	83	93
MN	42	31	100	100
MT	65	51	94	93
ND	61	50	100	99
SD	89	87	100	100
5 States	63	53	99	98

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

**Crop Condition**  
(Percent)

for the Week Ending September 13, 1992

**CORN**

State	VP	P	F	G	EX
CO	1	4	20	62	13
GA	0	1	10	74	15
IL	0	0	10	80	10
IN	0	1	17	73	9
IA	0	0	9	72	19
KS	0	6	11	30	53
KY	0	0	3	64	33
MI	3	7	25	45	20
MN	7	16	41	34	2
MO	0	1	12	68	19
NE	1	7	17	55	20
NC	0	2	29	65	4
OH	1	4	20	52	23
PA	1	2	14	51	32
SD	1	7	18	56	18
TX	0	3	16	52	29
WI	2	8	35	55	0
17 State	1	4	18	61	16
Prev Week	1	4	18	60	17
Prev Year	4	12	36	40	8

**SOYBEANS**

State	VP	P	F	G	EX
AL	0	0	10	81	9
AR	0	2	14	63	21
GA	0	0	4	92	4
IL	0	0	15	77	8
IN	0	3	18	74	5
IA	0	1	13	73	13
KS	0	0	5	60	35
KY	0	0	18	67	15
LA	0	4	62	34	0
MI	4	11	25	45	15
MN	4	16	57	23	0
MS	0	0	26	70	4
MO	0	3	30	61	6
NE	0	2	10	65	23
NC	0	1	29	66	4
OH	3	8	28	46	15
SC	0	0	55	45	0
SD	1	5	21	57	16
TN	0	0	9	76	15
19 State	1	3	23	62	11
Prev Week	0	3	24	62	11
Prev Year	3	11	44	38	4

**COTTON**

State	VP	P	F	G	EX
AL	0	0	18	78	4
AZ	0	0	30	55	15
AR	0	0	58	42	0
CA	0	0	0	65	35
GA	0	2	31	65	2
LA	0	25	51	24	0
MS	0	0	75	25	0
MO	0	0	42	50	8
NM	0	11	45	44	0
NC	0	12	49	39	0
OK	17	9	22	52	0
SC	0	1	86	13	0
TN	0	0	32	68	0
TX	5	2	74	18	1
14 State	3	3	56	34	4
Prev Week	5	4	50	37	4
Prev Year	0	2	36	56	6

**GRAIN SORGHUM**

State	VP	P	F	G	EX
AR	0	0	1	65	34
CO	0	6	14	65	15
IL	0	0	17	76	7
KS	0	6	18	41	35
LA	2	13	37	48	0
MS	0	0	43	50	7
MO	0	1	14	69	16
NE	0	6	13	68	13
NM	0	0	0	100	0
OK	0	1	8	82	9
SD	2	13	30	44	11
TX	1	3	26	60	10
12 State	0	5	19	57	19
Prev Week	0	5	20	58	17
Prev Year	8	13	34	39	6

**RICE**

State	VP	P	F	G	EX
AR	0	0	13	81	6
CA	0	0	0	80	20
LA	1	9	71	19	0
MS	0	0	62	38	0
TX	0	0	36	48	16
5 State	0	2	30	61	7
Prev Week	0	1	42	55	2
Prev Year	0	0	30	67	3

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 none to 1.08 in. north, none to 0.84 in. central, none to 0.49 in. south. Temperatures 3° below normal to 2° above normal north, 4° below normal to 2° above normal central, 1° below normal to 2° above normal south. Lows 50 to 64° north; 48 to 63° central; 59 to 68° south. Highs 87 to 91° north; 89 to 93° central; 91 to 93° south.

Days suitable for fieldwork 4.8. Soil moisture 3% short, 85% adequate, 12% surplus. Past week was one of the drier weeks of summer. Corn 98% mature, 98% 1991, 97% avg.; 48% harvested, 67% 1991, 62% avg.; 9% fair, 38% good, 53% excellent. Sorghum 19% harvested, 49% 1991, 43% avg.; 16% fair, 80% good, 4% excellent. Peanuts dug 21%, 38% 1991, 29% avg.; 12% combined, 31% 1991, 20% avg.; 38% fair, 62% good. Pasture 6% fair, 61% good, 33% excellent. Livestock 84% good, 18% excellent. Primary activities: Scouting fields for insects, diseases; applying fungicides, herbicides, insecticides to peanuts, cotton; harvesting vegetables, hay, corn, sorghum, peanuts where dry enough; plowing fields for small grain seeding; planting small grains, marketing cattle; repairing machinery; general care of livestock, poultry, catfish.

**ALASKA:** Early snowfall in the northern region, killing frosts throughout the Railbelt, curtailed the growing season. Highs 1 to 13° below normal. Lows ranged 1 to 10° below normal. Seasonal precipitation 2.99 in. drier than normal at PMC-Butte to 0.65 in. wetter than normal at Fairbanks.

Days suitable for hay/grain 4.0. Potato digging 6.0. Topsoil, subsoil moisture supplies 90% adequate, 10% surplus. Barley ripe, 15% swathed; 80% harvested. Oats ripe; 20% swathed; 15% harvested. Second crop hay 30% complete. Commercial potato harvest 50% complete. Winter hay available rated short to adequate.

**ARIZONA:** Sunny, warmer. Sunny 6th to 12th statewide, except 11th, 12th cloudy, light showers east. Temperatures normal to 5° above normal. Extremes 36°; 96° higher elevations; 52°; 107° deserts.

Cotton bolls opening 92%, 71% 1991, 85% avg.; harvested 11%, 1%, 3% avg.; 30% fair, 55% good, 15% excellent; insects moderate to severe, central, severe, west; light, east; weeds light to moderate; Activities included insect monitoring, pesticide applications, irrigating, statewide; defoliating: active west, central, moderate south central; harvesting, west, central. Alfalfa good; weeds, insects light; harvest, moderate. Lemon harvest, west. Cantaloupes, watermelons, honeydews, green onions harvested, central. Apples, squash, garlic, east. Chili peppers harvested central, east.

**ARKANSAS:** Temperatures below normal, scattered showers, thunderstorms, mainly in west. Extremes 44°; 96°. Rainfall none to 3.45.

Days suitable for fieldwork 6. Soil moisture supplies 37% short, 60% adequate, 3% surplus. Main farming activities for week; defoliating cotton, applying final insecticides to cotton, applying herbicide to soybeans, draining rice

fields, wheat seedbed preparation, harvesting milo, corn, rice, hay, pasture weed control, fall forage planting, working cattle, harvesting apples. Cool temperatures continued to hamper maturity on cotton. Some cotton was picked in southeast. Boll worm pressure reported high in southeast. Rice harvest continued at an increased rate. Yields mostly good. Some fields in east central hurt by blast. Soybeans in need of moisture in east central, southeast. Some group III, IV beans harvested in east central. Soybeans harvested 3%, 5% 1991, 0% avg. Grain sorghum harvest continued at an increased rate. Yields mostly good. Sorghum harvested 52%, 38% 1991, 41% avg. Corn 4% fair, 61% good, 35% excellent. Yields excellent. Corn harvested 59%, 71% 1991, 71% avg. Some aflatoxin found in southeast. Livestock good. Flies a problem in west central, north central. Pastures good. Pastures supplying average forage for herds. Hay harvest continued.

**CALIFORNIA:** Week began strong high pressure, above normal temperatures. By weekend weak low pressure trough replaced high, brought temperatures below normal. No precipitation observed except drizzle locally along coast.

Good progress field activities, open weather. Small grain harvest, few dryland fields. Ground preparation fall seeded wheat. Cotton growth 2 weeks ahead normal. Defoliation, harvest desert areas, gained momentum San Joaquin Valley; harvest expected few days. Rice harvest underway all growing areas. Alfalfa green chopped, sprayed worm control. Alfalfa seed, dry beans, grain corn, silage corn, safflower, sugarbeets harvested. Planting next years sugarbeets. Alfalfa hay harvest normal. Harvest of peaches, plums, nectarines virtually complete; late varieties remained. Fresno stone fruit growers pushed out unprofitable varieties. Growers harvest raisin, juice, wine, table grapes. Fresno raisins 34% trays open, 38% rolled, 28% picked up/boxed. Tulare 90% raisins picked, 1/4 rolled, binned. Sonoma wine grape harvest 70% complete. Yuba County walnut harvest began. Sonoma late variety apples met maturity standards. Early Foothill pomegranates harvested, packed. Fig harvest progressed. Persimmon fruit color break. Harvest progressed desert lemons; grapefruit, avocados western half Riverside County. Strawberry harvest continued, fairly good demand central coast. Limited fall harvest continued Sanger district. Broccoli fairly heavy Salinas Watsonville, moderate Santa Maria variable quality. Cauliflower moderate, variable quality central coast. Carrots fairly light central district. Celery moderate, good quality Salinas Watsonville; variable quality Santa Maria. Iceberg lettuce moderate Salinas Watsonville, fairly light Santa Maria variable quality. Heavy leafminer infestation may cause fall crop loss westside area. Planting fall crop proceeded westside area, began in desert area. Leaf, Romaine lettuce moderate, variable quality Salinas Watsonville. Melon harvest dwindling; desert crop progressed well, good bloom, fruit set. Summer onion digging on going central, southern districts. Summer potato harvest moved towards completion Delta, south districts. Sweet

potato harvest advanced central valley. Processing tomato harvest decreased Statewide. Fresh market tomato growers Westside area battling heavy leafminer infestation in fall crop, planting continued. Other vegetables harvested: beans, cucumbers, garlic for processing, peppers, various oriental vegetables. Range, pasture conditions fair to very poor. Pockets with good conditions scattered. Cattle continued to look very healthy. Fire hazard high. Supplemental feeding active, increasing. Water supplies drop below normal. Sheep grazed wheat stubble, tomato fields. Bees active in new cantaloupe fields, Westside.

**COLORADO:** Mostly dry through the period with light showers along northern front range, northeast plains, west slope with amounts generally less than 0.10 in. Temperatures 1 to 3° below normal most areas except for 1 to 2° above normal in southeast.

Days suitable for fieldwork 6.5. Soil moisture 2% very short, 27% short, 69% adequate, 2% surplus. Alfalfa 3rd cutting 37%, 37% 1991, 44% avg. Barley harvested 87%, 66% 1991, 89% avg. Oats harvested 82%, 80% 1991, 81% avg. Spring wheat harvested 55%, 42% 1991, 62% avg. Sorghum turning color 41%, 53% 1991, 53% avg. Dry beans harvested 15%, 20% 1991, 21% avg. Dry bean 4% poor, 24% fair, 61% good, 11% excellent. Fall potatoes harvested 9%, 1% 1991, 3% avg. Dry onions harvested 54%, 52% 1991, 45% avg. Corn dent stage 48%, 61% 1991, 69% avg.; mature stage 6%, 26% 1991, 31% avg.; silage harvested 9%, 25% 1991, 25% avg.; 1% very poor, 4% poor, 20% fair, 62% good, 13% excellent. Winter wheat seeding 25%, 14% 1991, 22% avg. Livestock mostly good. Pasture, range feed excellent.

**FLORIDA:** Temperatures 1 to 3° below normal north, 1 to 2° above normal southeast, near normal elsewhere. Highs mid 90s. Lows mid 60s north, low to mid 70s elsewhere. Rainfall 1.00 to 3.50 in. Peninsula, less than 1.00 in. Panhandle.

Soil moisture mostly adequate to surplus throughout State. Peanut harvest active. Tobacco marketing active. Sugarcane planting underway. Corn harvest, haymaking active. Cotton, soybean, sugarcane making good progress. Citrus groves, trees near excellent. Moisture adequate, ponds, lakes, streams full. Abundant new growth. New crop fruit making normal progress, early fruit showing signs of color break. No harvest yet. Fruit testing continues. Caretakers cutting cover crops, spraying, fertilizing. Crop conditions good throughout major vegetable growing areas. Normal fall temperatures all areas, permitted active fieldwork. Homestead area growers resuming field preparation for winter crops. Planting, land preparation active central, south. Squash harvest in north started. State's pastures fair to excellent. Pasture 15% fair, 60% good, 25% excellent. Moisture levels mostly adequate to surplus. State's cattle herds mostly good.

**GEORGIA:** Rain 1 or 2 days most of the State, southeast 3 to 6 days. Rainfall under 0.50 in., number locations southeast, 1.00 to 3.00 in. Only isolated spots elsewhere reporting 1.00 to 2.00 in. Temperatures 3° below normal to 2° above. Highs middle 80s mountains, low 90s south. Coolest middle 50s mountains, 60s elsewhere except middle 60s coast.

Days suitable for fieldwork 4.2. Soil moisture 1% short, 68% adequate, 31% surplus. Corn 65% harvested for grain, 83% 1991, 80%

avg.; lodging problems few areas. Cotton 0% harvested, 1% 1991, 6% avg. Sorghum 10% fair, 89% good, 1% excellent; 24% harvested for grain, 39% 1991, 38% avg. Peanuts 13% fair, 87% good; 11% dug, 39% 1991, 36% avg.; 5% threshed, 26% 1991, 23% avg. Soybeans 99% setting pods, 99% 1991, 99% avg.; 0% harvested, 0% 1991, 0% avg. Tobacco virtually complete. Rye 1% planted, 2% 1991, 3% avg. Other small grains 1% planted, 2% 1991, 2% avg. Vegetables 15% poor, 46% fair, 39% good. Apples 12% poor, 21% fair, 67% good; 40% harvested, 64% 1991, 55% avg. Pecans 13% very poor, 10% poor, 69% fair, 8% good. Hay 17% fair, 80% good, 3% excellent. Pasture 8% fair, 82% good, 10% excellent. Hay, pastures good. Showers slowing hay harvest, causing quality problems. Some spittle bug problems hay, pasture central areas. Cattle, hogs good. Other activities mowing pastures, seedbed preparation for small grains, spraying for disease, insect control in row crops, planting fall vegetables.

**HAWAII:** Hurricane Iniki passed through the State generating high winds devastating Kauai, whipping leeward Oahu. The storm's presence generated hot, humid, hazy conditions. Temperatures reached record highs with southeast winds. High winds dominated weather on 11th, heavy rains fell thereafter. Rainfall 0.40 to 3.90 in.

Days suitable for fieldwork 7.0. High winds heavily damaged agriculture in affected, exposed areas of the islands, mainly Kauai. Rainy conditions created muddy field conditions delaying farm activities. Damage assessment will be made as conditions permit, information becomes available. On windward Oahu, bearing banana acreage, at 80 to 100%, downed; papaya trees suffered minimal damage; sweet corn with heavy fruit set downed. On Hawaii island, banana production active, papaya supplies declined. Spraying active to control disease after recent rains.

**IDAHO:** Temperatures below normal across State. Every region of the State recorded below freezing temperatures. Precipitation was reported across the Gem State; the north received the greatest amounts.

Days suitable for fieldwork 7. Soil moisture 35% very short, 33% short, 32% adequate. Spring barley harvested 98%, 86% 1991, 93% avg. Oats harvested 94%, 82% 1991, 87% avg. Potatoes 100% turning, 97% vines dying/killed, 12% harvested; good. Second cutting alfalfa 99%, 95% 1991, 98% avg.; third cutting 64%, 26% 1991, 41% avg. Sugarbeet harvested 3%, 2% 1991, 4% avg. Dry bean harvest 45%, 33% 1991, 39% avg. Onion harvest 56%, 31% 1991, 39% avg. Field corn for silage 40%, 5% 1991. Sweet corn for processing 77% harvested. Peach harvest 100% complete. Plum, prune harvest 100% complete, 91% 1991, 76% avg. Apples harvest 24%, 7% 1991, 6% avg. Hops harvest 89%, 57% 1991, 49% avg. Irrigation water supplies 32% very poor, 29% poor, 22% fair, 17% good. Activities: 2nd, 3rd cuttings of alfalfa, harvesting of onions, potatoes. Pasture, range 50% of normal. Livestock fair to good.

**ILLINOIS:** Thunderstorms rumbled across State 9th ahead of a cold front, depositing from 0.50 to over 2.00 in. Dry weather followed as temperatures ranged, on average, from the low 40s to mid 70s, improving drydown conditions late in week.

Days suitable for fieldwork 4.0. Soil moisture 12% short, 76% adequate 12% surplus. Soybeans turning yellow 70%, 84% 1991, 67% avg. Soybeans harvested less than 1%, 8% 1991, 6% avg. Corn harvested 2%, 18% 1991, 9% avg. Sorghum harvested 1%, 5% 1991, 5% avg. Alfalfa third

cutting 81%, 87% 1991, 87% avg. Pasture condition 85% of normal.

**INDIANA:** Temperatures 1 to 4° below normal across much of the State. Highs low to mid 70s in north to mid to upper 70s south. Lows low to mid 50s north to mid 50s to around 60 south. Precipitation 0.90 to 3.50 in central, north 0.20 to 1.00 in. south.

Days suitable for fieldwork 4.2. Topsoil 6% short, 66% adequate, 28% surplus. Subsoil 11% short, 80% adequate, 9% surplus. Alfalfa third cutting 63%. Tobacco harvest 72%, 74% 1991, 63% avg. Pasture condition 94%, 91% last week, 51% 1991. Soybeans turning color 68%, 88% 1991, 67% avg.

**IOWA:** Temperatures 2 to 4 ° below normal. Extremes 35°; 86°. Rainfall 0.20 to 5.94 in.; average 1.28 in.

Days suitable for fieldwork 3.0. Topsoil 80% adequate, 20% surplus. Subsoil 91% adequate, 9% surplus. Pasture 18% fair, 64% good, 18% excellent. Corn harvested 1%, 4% 1991, 5% avg. Soybeans turning color 42, 60% 1991, 69% avg. Third cutting alfalfa 70% harvested, 87% 1991, 91% avg. Some major hail damage. Harvest of seed corn delayed because of high moisture content. Livestock generally in good condition, feeder cattle staying longer on pasture.

**KANSAS:** Temperatures normal-slightly below. Only northeast, southeast had moderate rains.

Days suitable for fieldwork 5.5. Surface moisture 3% very short, 31% short, 60% adequate, 6% surplus. Subsurface moisture 2% very short, 4% short, 91% adequate, 3% surplus. Wheat seeded 10%. Most all fields need rain, break up clods. Virtually all corn dough stage. Three quarters dented, 10% harvested. Mostly high moisture, short season varieties. Sorghum 96% headed, 35% color. Soybeans podding 99%, shedding leaves 15%. Despite lateness, extremely good. Pasture, range continue excellent. Feeders moving to starter lots. Haying, forage cutting, wheat ground preparation, seeding major activities.

**KENTUCKY:** Mean temperatures 70°. Highs 82°, lows 59°. Precipitation 0.40 in. west averaged 1.00 in., Mayfield, Cape Girardeau more than 2.00 in.

Days suitable for fieldwork 4.9. Soil moisture 1% very short, 10% short, 83% adequate, 6% surplus. Corn mostly good to excellent, harvest underway south, west. Moisture levels still high. Yields good to excellent. Soybeans mostly good. Burley cutting 71% complete, 80% 1991, 73% avg. Houseburn concerns central, east. Some labor shortages. Dark tobacco cutting 76% complete. Hay crops mostly good. Warm, dry weather necessary to cure tobacco, reduce moisture levels in corn.

**LOUISIANA:** Temperatures 0.3° to 2.2° above normal. Extremes 54°; 95°. Rainfall 0.01 in. north central to 0.74 in. southeast.

Days suitable for fieldwork 5.2. Soil moisture 16% short, 76% adequate, 8% surplus. Corn 90% harvested, 97% 1991, 91% avg. Cotton 1% harvested, 1% 1991, 9% avg. Spraying of defoliants active. Hay 82% second cutting, 60% 1991, 64% avg. Rice 100% headed, 97% 1991, 99% avg.; 93% ripe, 86% 1991, 88% avg. Fertilizing, flooding second crop continued, southwest. Sorghum 81% harvested, 64% 1991, 66% avg. Soybeans 99% setting pods, 95% 1991, 96% avg.; 56% leaves turning color, 12% 1991, 32% avg.; 4% harvested, 0% 1991, 2% avg. Sugarcane 8% very

poor, 19% poor, 65% fair, 8% good; 23% planted, 48% 1991, 45% avg. Sweet potatoes 3% poor, 16% fair, 81% good; 31% harvested, 38% 1991, 42% avg. Livestock 30% fair, 65% good, 5% excellent. Pastures 1% very poor, 4% poor, 3% fair, 90% good, 2% excellent. Vegetables 6% very poor, 13% poor, 59% fair, 22% good. Preparing land for winter pastures, wheat beginning.

**MARYLAND & DELAWARE:** **MARYLAND:** Rainfall 1.94 in. Temperature 73.8°, normal 69.9°. Extremes 49°; 90°.

Days suitable for fieldwork 5.1. Topsoil 81% adequate, 19% surplus. Subsoil 13% short, 81% adequate, 6% surplus. Corn good; dough stage 81%, 100% 1991, 97% avg.; 63% dent, 94% 1991, 85% avg.; 27% mature, 68% 1991, 48% avg. Grain harvest beginning, silage harvested 11%, 76% 1991, 56% avg. Soybeans mostly good: 89% setting pods, 98% 1991, 89% avg.; 10% turned, 29% 1991, 20% avg. Tobacco good; 75% harvested, 75% 1991, 71% avg. Pastures excellent. Alfalfa third cutting 96%, other hay third cutting 62%. Fruit harvested: peaches 92%; apples 24%. Vegetable harvest active. Few acres small grains seeded.

**DELAWARE:** Precipitation 1.23 in. Temperature 74.3°, normal 70.4°. Extremes 57°; 87°.

Days suitable for fieldwork 6.9. Topsoil moisture 17% short, 83% adequate. Subsoil moisture 100% adequate. Soybeans fair to good; 82% setting pods, 98% 1991, 92% avg. Corn mostly fair; 87% dent, 100% 1991, 94% avg.; 16% mature, 77% 1991, 54% avg. Sorghum 16% turned. Alfalfa fourth cutting 27%; other hay third cutting 76%, supplies mostly adequate. Peach picking virtually complete; apples 18%. Vegetable, melon harvest nearing end. Pastures mostly excellent.

**MICHIGAN:** Temperatures 1 to 5° below normal. Extremes 30°; 86°. Precipitation 0.16 to 3.77 in.

Days suitable for fieldwork 4.0. Soil moisture 5% short, 55% adequate, 40% surplus. Hay 95% second cutting, 100% 1991, 99% avg.; 45% third cutting, 70% 1991, 50% avg.; 3% very poor, 7% poor, 25% fair, 45% good, 20% excellent. Oats 95% harvested, 100% 1991, 100% avg.; 2% very poor, 8% poor, 30% fair, 45% good, 15% excellent. Dry Beans 45% turning, 97% 1991, 85% avg.; 30% shedding, 85% 1991, 60% avg.; 6% very poor, 17% poor, 35% fair, 35% good, 7% excellent. Potatoes 50% harvested, 35% 1991, 40% avg. Pasture 85% of normal. Activities: Preparing for harvest, repairing farm buildings, machinery, harvesting fruit, vegetables.

**MINNESOTA:** Temperatures near normal to 5 below normal. Precipitation 0.06 in. south central to 1.55 in. northwest, 0.64 in. below normal to 0.97 in. above normal.

Days suitable for fieldwork 3.6. Topsoil 2% short, 55% adequate, 43% surplus. Spring wheat 55% cut/swathed, 99% 1991, 99% avg.; 42% combined, 99% 1991, 99% avg. Oats 94% cut/swathed, 99% 1991, 99% avg.; 90% combined, 99% 1991, 99% avg. Barley 81% cut/swathed, 99% 1991, 99% avg.; 64% combined, 99% 1991, 99% avg. Corn 89% dough, 99% 1991, 99% avg.; 39% dent, 94% 1991, 92% avg.; 2% mature, 29% 1991, 48% avg.; 4% silage cut, 27% 1991, 32% avg. Soybeans 33% turning yellow, 71% 1991, 76% avg.; 7% dropping leaves, 35% 1991, 64% avg. Potatoes 18% harvested, 26% 1991, 26% avg. Flax 10% harvested, 70% 1991, 71% avg. Dry edible beans 13% harvested, 76% 1991, 52% avg. Sweet corn 62% harvested, 79% 1991, 88% avg. Winter wheat 46% seeded, 81% 1991, 74% avg. Rye 54% seeded, 88% 1991, 71% avg. Land plowed/-tilled 25%. Hay, small grain stubble 25%, 60% 1991, 65% avg. Soybean 4% very poor, 16% poor, 57% fair, 23% good. Corn 7% very poor, 16% poor, 41% fair, 32% good, 2% excellent.

**MISSISSIPPI:** Temperatures 77°, 0.1° below normal. Extremes 47°; 96°. State received virtually no rainfall, exception of a few isolated towns. Rainfall 0.20 in., 0.77 below normal. Soil temperatures 82°.

Days suitable for fieldwork 5.2, 5.5 1991, 5.4 avg. Soil moisture 100% adequate, Corn mature 97%, 87% 1991, 87% avg.; harvested 44%, 50% 1991, 50% avg.; silage harvested 92%, 84% 1991, 92% avg.; 4% poor, 25% fair, 54% good, 17% excellent. Cotton open bolls 65%, 66% 1991, 77% avg.; 1% harvested, 4% 1991, 8% avg.; 75% fair, 25% good. Peanuts harvested 46%, 70% 1991, 57% avg. Rice mature 81%, 60% 1991, 76% avg.; harvested 33%, 20% 1991, 30% avg.; 62% fair, 38% good. Sorghum 93% mature, 65% 1991, 76% avg.; harvested 58%, 40% 1991, 51% avg.; silage harvested 77%, 81% 1991, 86% avg.; 43% poor, 50% fair, 7% good. Soybeans 99% podding, 87% 1991, 88% avg.; turning color 49%, 30% 1991, 35% avg.; shedding leaves 20%, 6% 1991, 14% avg.; 2% harvested, 0% 1991, 1% avg.; 26% fair, 70% good, 4% excellent. Sweet potatoes harvested 30%, 45% 1991, 42% avg.; 37% fair, 50% good, 13% excellent. Wheat planted 5%, 6% 1991, 5% avg.; 1% emerged, 2% 1991, 2% avg. Hay harvested 91%, 92% 1991, 87% avg. Pecans 57% very poor, 26% poor, 13% fair, 4% good. Livestock 97% good, 3% excellent. Pasture 95% of normal. Activities: Harvest of corn, hay, sorghum, rice, defoliating cotton.

**MISSOURI:** Temperatures 4° below in western areas to normal in the southeast. Rainfall 1.57 in., 1.13 in. northwestern district to 4.15 in. southeast. Most districts received less than 1.50 in.

Days suitable for fieldwork 3.5. Topsoil 14% short, 78% adequate, 8% surplus. Corn mature ranges from 19% north central to 100% southeast. Corn harvesting 7%, 28% 1991, 17% avg. Corn harvesting most advanced southeastern district at 38%, other areas mostly limited to silage cutting. Soybeans turning color least advanced southwest 27%, southeast 32%, most advanced northwest, central, east central 65%. Soybeans mature 4%, 5% 1991, 5% avg. Sorghum mature ranges from less than 10% north central, northeast to 81% southeast. Sorghum harvested 10%, 15% 1991, 14% avg. Pasture 1% very poor, 8% poor, 41% fair, 44% good, 6% excellent.

**MONTANA:** Temperatures 3 to 5° below normal with a low of 11° in Wisdom. The southwest, south central areas received 0.50 in. or more.

Days suitable for fieldwork 5.8. Topsoil 37% short, 61% adequate, 2% surplus. Subsoil 39% short, 60% adequate, 1% surplus. Winter wheat 94% harvested, 100% 1991, 99% avg. Barley 78% harvested, 93% 1991, 90% avg. Oats 79% harvested, 91% 1991, 90% avg. Corn for silage 26% harvested, 44% 1991, 36% avg. Dry bean 17% harvested, 53% 1991, 38% avg. Sugarbeets 3% harvested, 1% 1991, 1% avg. Potatoes 1% harvested, 2% 1991, 3% avg. Second cutting alfalfa hay 90% harvested, 92% 1991, 89% avg. Pasture, range feed 80%, improved slightly from last week.

**NEBRASKA:** Temperatures 2 to 4° below normal. Precipitation first part of week varying from 0.10 in. west to 1.00 in. east.

Days suitable for fieldwork 4.9. Topsoil 10% short, 80% adequate, 10% surplus. Subsoil 3% short, 89% adequate, 8% surplus. Row crops 1 to 3 weeks behind normal. Corn 1% very poor, 7% poor, 17% fair, 55% good, 20% excellent; 71% dented, 97% 1991, 94% avg.; 6% mature, 58% 1991, 47% avg. Soybean 2% poor, 10% fair, 65% good,

23% excellent; 39% turning color, 84% 1991, 72% avg.; 7% dropping leaves, 47% 1991, 35% avg. Sorghum 6% poor, 13% fair, 68% good, 13% excellent; 43% coloring, 93% 1991, 87% avg.; 1% mature, 53% 1991, 38% avg. Alfalfa 3% poor, 12% fair, 68% good, 17% excellent; 86% third cutting, 93% 1991, 93% avg.; 10% fourth cutting. Winter wheat 22% sown, 23% 1991, 27% avg. Pasture, range 100% of normal.

**NEVADA:** Dry, warm weather prevailed across State under high pressure aloft; polar jet stream remained well north across Canada. Temperatures varied widely from night to day with diurnal ranges of 50° common. Extremes 28°; 106°. No precipitation.

Small grain harvest winding down, Alfalfa Seed harvest underway. Major activities include: Crop harvest, preparations for fall planting, feeding, care of livestock.

**NEW ENGLAND:** Precipitation none to 1.55 in. throughout region. Temperatures high 50s to mid 60s north, low to high 60s south; 2 to 5° above normal. Maximum temperatures high 70s to low 80s north, low to mid 80s south. Minimums low 30s to mid 40s north, mid 30s to low 50s south.

Days suitable for fieldwork 6. Soil moisture 15% short, 74% adequate, 11% surplus. Available grazing 16% short, 80% adequate, 4% surplus. Fieldwork progress 6 days behind schedule. Maine potatoes 16% harvested, 13% 1991, 10% avg.; good. Rhode Island potatoes 50% harvested, 67% 1991, 62% avg.; excellent. Massachusetts, Connecticut potatoes 49% harvested, 44% 1991, 29% avg.; good. Maine oats 60% harvested, 80% 1991, 66% avg.; excellent. Field corn 5% harvested, 13% 1991, 14% avg.; good. Connecticut, Massachusetts sweet corn 83% harvested, 88% 1991, 87% avg.; good. Second cut hay 88% harvested, 91% 1991, 88% avg.; good. Third cut hay 34% harvested, 58% 1991, 51% avg.; good. Shade tobacco 100% harvested; good. Outdoor tobacco 100% harvested; good. Apples 19% harvested, 31% 1991, 18% avg.; color good, size medium; good. Peaches 45% harvested, size medium; good. Connecticut pears 12% harvested, size medium; good. Cranberry good to excellent, preparing for harvest. Maine wild blueberry crop 100% harvested, size medium; good to excellent. Major farm activities: Spraying for insects, spreading manure, harvesting field corn, vegetables, sweet corn, tomatoes, potatoes, apples, peaches, pears, haying.

**NEW JERSEY:** Temperatures near normal. Extremes 38°; 89°. Rainfall 0.53 in. north, 0.77 in. central, 0.75 in. south. Heaviest 24 hour total 1.18 in. on 10th, 11th. Estimated soil moisture, in percent field capacity, averaged 82% north, 56% central, 67% south. Four inch soil temperatures averaged 67° north, 69° central, 71° south.

Soil moisture content adequate. Dandelion, dill, basil, broccoli rabe, collards, kale, okra, beets, Chinese cabbage, leeks, parsley, turnips, watermelon, cantaloupe in light volume. Cucumbers, pickles, tomatoes, green onions, sweet corn, cabbage, green beans in moderate supply. Eggplant, peppers, squash in good volume. Tomatoes, peppers, cucumbers nearing completion. Harvest of fall vegetables: Snap beans, endive, escarole, romaine, Boston, bibb lettuce has begun. Harvesting late season Peach varieties. Pastures good overall.

**NEW MEXICO:** Generally warm, dry weather prevailed across State. Temperatures 2 to 3° above normal with isolated spots as much as 5° above normal. Extremes 34° at Gallup; 102° at Carlsbad. Only a couple of locations received

any measurable rainfall, highest reported was Clovis at 0.19 in.

Days suitable for fieldwork 6.9. Soil moisture 55% short, 45% adequate. Crop conditions: Alfalfa 4% poor, 11% fair, 81% good, 4% excellent. Corn 7% fair, 86% good, 7% excellent; silage harvest still active. Winter wheat 20% fair, 80% good; 67% of crop planted. Chile 15% fair, 70% good, 15% excellent; harvest very active with 43% completed. Lettuce good; onion harvest completed. Pecans 17% fair, 83% good. Apples 38% fair, 62% good; harvest active. Cattle, sheep fair to excellent. Lack of moisture is causing range condition to deteriorate in many areas of the State. Range condition has dropped to 90% of normal.

**NEW YORK:** Warming trend throughout the week, peaked on 10th. Isolated rain through 9th. Thunderstorms statewide 10th. Rainfall in Great Lakes area was 148% of normal. Temperatures near average in western third, Eastern Plateau, above average elsewhere. Extremes 32°; 87°.

Days suitable for fieldwork 5.1. Soil moisture mostly adequate. Pasture 91% of normal. Hay fair to good. Alfalfa second cutting 91% complete, 100% 1991, 98% avg. Third cutting 37% finished, 69% 1991, 53% avg. Corn mostly good, some poor areas. Silage harvest underway. Oats 73% harvested, 100% 1991, 97% avg. Dry bean harvest lagging. Defoliant being applied. Potato harvest active. Warm, sunny weather beneficial to grapes. Harvest of early varieties underway. Apple harvest gaining momentum. Bartlett pear, late peach harvest near completion in Lake Ontario region. Onions in Oswego County being undercut, harvested. Crop fair to good. Lettuce harvest near completion. Orange County onions in excellent, harvest continues.

**NORTH CAROLINA:** Temperatures near normal to 3° above normal. Precipitation 3.23 in. at Charlotte to no rain at a number of locations.

Days suitable for fieldwork 5.5. Soil moisture 1% very short, 6% short, 84% adequate, 9% surplus. Crop condition: Pasture 1% poor, 18% fair, 81% good. Corn 2% poor, 29% fair, 65% good, 4% excellent. Cotton 12% poor, 49% fair, 39% good. Peanuts 8% poor, 36% fair, 56% good. Soybeans 1% poor, 29% fair, 66% good, 4% excellent. Hay 21% fair, 79% good. Sweet potatoes 3% poor, 46% fair, 48% good, 3% excellent. Apples 6% poor 38% fair, 56% good. Sorghum 36% fair, 64% good. Cotton open bolls 30%, 78% 1991, 62% avg. Corn soft dough 95%, 100% 1991, 100% avg.; dented 95%, 98% 1991, 95% avg.; mature 84%, 94% 1991, 88% avg. Soybeans flowering 93%, 99% 1991, 96% avg.; setting pods 85%, 90% 1991, 85% avg.; leaf drop 9%, 9% 1991, 6% avg. Flue-cured tobacco harvested 81%, 82% 1991, 76% avg. Burley tobacco harvested 33%, 75% 1991, 53% avg. Corn for silage harvested 58%, 77% 1991, 70% avg.; Grain Harvested 23%, 34% 1991, 25% avg. Sorghum for grain harvested 18%, 23% 1991, 16% avg.; Apples harvested 53%, 50% 1991, 37% avg. Hay, roughage supplies 1% short, 96% adequate, 3% surplus. Hay second cutting 85%; third cutting 42%. Major activities: Harvesting, curing, marketing tobacco, cutting corn for silage. Other activities: Harvesting fruit, vegetables; harvesting sorghum, corn for grain; spraying cotton, peanuts; preparing ground for small grains; tending livestock; equipment repair; general farm maintenance.

**NORTH DAKOTA:** Cool, wet conditions early in the week moderated to warm, dry by the weekend. Statewide temperatures 2 to 4° below normal.

Extremes 29° west central; 90° south central. Precipitation 0.12 in. northwest to 0.85 in. southeast.

Days suitable for fieldwork 4.7. Soil moisture supplies above last year, average. Topsoil 6% very short, 29% short, 63% adequate, 2% surplus. Subsoil 14% very short, 46% short, 40% adequate. Small grain harvest continued behind 1991, average. Spring wheat 1% poor, 31% fair, 56% good, 12% excellent; 61% combined, 100% 1991, 99% avg. Durum 3% poor, 25% fair, 56% good, 16% excellent; 39% combined, 97% 1991, 97% avg. Barley 2% poor, 24% fair, 62% good, 12% excellent; 84% combined, 100% 1991, 100% avg. Oats 4% poor, 29% fair, 62% good, 5% excellent; 83% combined, 100% 1991, 100% avg. Winter wheat 4% poor, 20% fair, 74% good, 2% excellent; 97% combined, 100% 1991, 100% avg. Late season crop development continued well behind average. Sugarbeets 88% good, 12% excellent; 4% lifted, 4% 1991, 3% avg. Corn for grain 6% poor, 25% fair, 69% good; none ripe and beyond, 66% 1991, 31% avg. Flax 2% poor, 22% fair, 65% good, 11% excellent; 9% combined, 78% 1991, 62% avg. Potatoes 41% fair, 59% good; 18% dug, 36% 1991, 29% avg. Soybeans 4% fair, 96% good; 9% mature and beyond, 85% 1991, 67% avg. Dry beans 24% fair, 76% good; 4% cut or combined, 79% 1991, 48% avg. Sunflower 2% poor, 33% fair, 62% good, 3% excellent; 5% bracts turned brown and beyond, 49% 1991, 40% avg. Range, pasture 66% of normal. Stockwater supplies 4% very short, 28% short, 68% adequate.

**OHIO:** Thunderstorms deposited locally heavy rain in some northern areas 9th night. Rainfall less than 0.25 in. to over 1.00 in. Northern areas generally saw the greater amounts. Dry weather prevailed through the weekend. Temperatures 1 to 3° below normal across northern areas, averaged about normal in the southeast. Highs low 70s to low 80s with the average lows mostly in the 50s. Extremes ranged from 90° to the mid to upper 30s around Canfield, Youngstown. Base 50° growing days: 100 northeast to 140 extreme south.

Days suitable for fieldwork 4.1. Topsoil 1% short, 69% adequate, 30% surplus. Hay 1% very poor, 7% poor, 25% fair, 49% good, 18% excellent. Pasture 3% poor, 21% fair, 58% good, 18% excellent. Potatoes harvested 40%, 56% 1991, 55% avg. Processing tomatoes harvested 50%, 76% 1991, 74% avg. Corn harvested for silage 10%, 77% 1991, 42% avg. Scattered rains over the north delayed hay harvest. Tobacco growers have nearly finished harvest. Grape growers in the northeast are concerned about mildew in grapes, sugar solid development.

**OKLAHOMA:** Temperatures 1° below normal northeast to 2° below normal north central. Rainfall none in the Panhandle to 1.75 in. southeast.

Days suitable for fieldwork 4.8. Topsoil 2% short, 86% adequate, 12% surplus. Subsoil 2% short, 98% adequate. Wheat 19% planted, 18% 1991, 11% avg.; 1% up to stand, 4% 1991, 3% avg. Cotton 17% very poor, 9% poor, 22% fair, 52% good; 16% open bolls, 11% 1991, 9% avg. Warmer daytime temperatures needed. Sorghum 1% poor, 8% fair, 82% good, 9% excellent; 12% mature, 18% 1991, 16% avg.; 2% harvested, 3% 1991, 4% avg. Peanuts 3% poor, 77% fair, 20% good; 15% mature, 22% 1991, 29% avg. Soybeans 33% mature, 22% 1991, 29% avg. Corn 36% harvested, 64% 1991, 41% avg. Pastures 104%. Cattle good; marketings average, prices steady to \$3.00 per cwt. lower than preceding week.

**OREGON:** Temperatures below normal, statewide. Morning frosts reported east of Cascades. Strong

winds, northern, eastern areas; winds. Precipitation very light, statewide; spotty, eastern areas.

Soil moisture 94% short, 6% adequate. Winter wheat 7% planted. Barley 92% harvested. Peppermint harvest concluding. Hops harvest nearly finished, Willamette Valley. Field preparation for fall seeding in cereal grains, canola, grass seed continues, some waiting for more moisture. Field corn silage being cut. Apples harvest continues, hazelnuts harvest beginning, caneberry training continues; Willamette Valley. Hood River Valley Anjou, Bosc pear harvest beginning in upper elevations, Golden Delicious apple harvest underway, Red Delicious harvest expected shortly. Umatilla apple harvest continues. Cranberry harvest underway, light activity; southern coast. Potato harvest continues, Malheur, Umatilla Counties. Hermiston\Boardman melon harvest concluding, tomato, green pepper harvest continues. Sweet corn, snap beans, onion harvest continues; Willamette Valley. Livestock continued good. Stockwater continues to be scarce. Most dryland pastures dried up, no relief in sight. Hay protein supplements being feed. Many cattle being moved off federal lands. Cattle being moved off irrigated pastures, Klamath Basin. Morning frosts continued, eastern areas. Some early weaning, preconditioning underway. Range, pasture condition 42% of normal.

**PENNSYLVANIA:** Temperature 70°, 4° above normal. Extremes 32°; 87°. Precipitation 1.14 in., 0.29 in. above normal.

Days suitable for fieldwork 4. Soil moisture 9% short, 67% adequate, 24% surplus. Ensilage corn harvested 11% complete, 39% 1991. Soybean 2% poor, 14% fair, 52% good, 32% excellent. Wheat planted 15% complete, 15% 1991. Oat harvest 95% complete, 100% 1991. Barley planted 16% complete, 22% 1991. Tobacco harvest 70% complete, 77% 1991. Potato harvest 57% complete, 55% 1991. Second cutting alfalfa 96% complete, 100% 1991. Third cutting alfalfa 64% complete, 76% 1991. Fourth cutting alfalfa 20% complete, 31% 1991. Second cutting clover timothy 90% complete, 93% 1991. Quality of hay made 42% poor, 35% fair, 23% good. Feed from pastures 6% poor, 36% fair; 58% good. Apple harvest 38% complete, 34% 1991. Peach harvest 88% complete, 94% 1991. Grapes harvest 30% complete, 51% 1991. Fall plowing 32% complete, 42% 1991. Activities: hauling manure; maintaining machinery; cutting, baling hay; making corn silage; fall plowing; seeding small grains; fruit, vegetable harvesting; fixing fence; caring for livestock.

**SOUTH CAROLINA:** Temperatures across State near normal. Rainfall 1.50 in. statewide.

Days suitable for fieldwork 5.5. Soil moisture 18% short, 75% adequate, 7% surplus. Tobacco fair to good; 94% harvested, 97% 1991, 92% avg.; 48% stalks destroyed, 47% 1991, 32% avg. Corn fair to good; 56% harvested, 64% 1991, 55% avg. Cotton fair to good; 55% open bolls, 69% 1991, 52% avg. Soybeans fair to good; 91% setting pods, 89% 1991, 85% avg.; 10% leaves turning, 10% 1991, 10% avg.; 1% shedding leaves, 4% 1991, 2% avg. Apples fair to good; 37% harvested, 73% 1991, 60% avg. Grapes fair to good. Fall hay fair to good; 66% harvested, 63% 1991, 58% avg. Peanuts fair to good; 2% harvested, 10% 1991, 8% avg. Sorghum fair to good; 33% harvested, 33% 1991, 31% avg. Winter grazing 14% planted, 17% 1991, 14% avg.; 7% emerged, 7% 1991, 6% avg. Insect pressure

remains in cotton, soybeans. High corn yields. Expected high soybean yields.

**PUERTO RICO:** No Weather Data Available.

**SOUTH DAKOTA:** Temperatures 2 to 6° below normal. Extremes 22°; 94°. Rainfall 0.50 to 2.50 in. east, none to 0.50 in. west. Maximum 2.60 in.

Days suitable for fieldwork 3.3. Topsoil 2% very short, 20% short, 57% adequate, 21% surplus. Subsoil 10% very short, 19% short, 58% adequate, 13% surplus. Flax 4% very poor, 23% fair, 59% good, 14% excellent. Sunflowers 1% very poor, 3% fair, 81% good, 15% excellent. Flax 50% harvested, 87% 1991, 93% avg. Corn silage 4% harvested, 60% 1991, 40% avg. Winter rye 25% seeded, 37% 1991, 40% avg. The continued precipitation has slowed the progress of all crops. Livestock 1% very poor 2% fair, 75% good, 22% excellent. Pasture 94% of normal.

**TENNESSEE:** Very little precipitation, slightly below normal temperatures provided comfortable working conditions.

Days suitable for fieldwork 5.0. Soil moisture, 8% short, 88% adequate, 4% surplus. Corn 55% mature, 68% 1991, 68% avg.; 50% silage harvested, 57% 1991, 67% avg.; 8% grain harvested, 16% 1991, 15% avg. Cotton 28% open bolls, 53% 1991, 55% avg.; 32% fair, 68% good. Sorghum 92% turning color, 78% 1991, 90% avg.; 56% mature, 36% 1991, 58% avg.; 12% harvested, 6% 1991, 20% avg. Soybeans 96% setting pods, 92% 1991, 94% avg.; 10% dropping leaves, 10% 1991, 18% avg.; 3% mature, 2% 1991, 7% avg.; 9% fair, 76% good, 15% excellent. Burley tobacco 72% harvested, 80% 1991, 74% avg. Dark air cured tobacco 79% harvested, 63% 1991, 73% avg. Dark fire cured tobacco 75% harvested, 54% 1991, 70% avg. Cattle 4% fair, 84% good, 12% excellent. Pasture 9% fair, 72% good, 19% excellent.

**TEXAS:** A cold front pushed through State, brought rain most areas, amounts still below normal. Exception South, Deep South, stalled front concentrated rain, caused some flooding. Lower Rio Grande Valley received most. Temperatures normal except were cloudiness kept heating minimum. Panhandle, North Texas slight cooling from cold front. Rainfall for the week, from -0.99 in. Upper coast, -0.04 in. south central. Far south +0.82 in. above normal. Temperatures below normal Plains, Deep South.

**Crops:** Corn harvest just beginning High Plains. Stubble Blacklands, South Texas, Valley plowed under. Other areas harvest continued uninterrupted. Cotton Plains benefitted from warm, dry conditions. Insect pressures increased late planted fields. Blacklands, excessive green bolls low lying areas. Rice harvest continued Upper Coast. Grain sorghum fields High Plains benefitted from hot, dry conditions; headworm problems required spraying several areas. Weeds problem some areas. Planting small grains continued many areas, several areas need more moisture land preparation. Peanut fields good condition across State, harvest gained momentum. Some occurrences sclerotinia blight Hill Country, leaf spot Low Plains, Cross Timbers. Additional rainfall helpful most areas. Peanut 83% normal, 87% 1991; 7% crop harvested, 11% 1991, 7% avg. Soybean harvest Upper Coast delayed by showers, harvest continued Blacklands. Fields Plains excellent condition. Wheat crop 20% planted, 22% 1991, 21% avg.

**Commercial Vegetables:** East Texas tomatoes, peppers harvested. Pumpkins adversely affected by virus, insects, heat. High Plains harvest carrots continued. Powdery mildew some pumpkins.

Trans Pecos some incidents fire blight pears. Watermelon, cantaloupe harvests winding down. Rio Grande Valley vegetables progressing well, some irrigation peppers required. Pecan tree spraying, insect, disease control continued. Significant damage aphid, weevil, shuckworm infestation. Nut drop continued.

**Range and Livestock:** Winter pasture preparations continued several areas. Forage, hay supplies adequate most areas, pastures responded recent rainfall, several areas still need moisture. Shearing sheep, goats active Hill Country. Hornfly populations increased.

**UTAH:** Temperature maximums, minimums 2° less than normal. Light precipitation was reported throughout the State, except in the northern mountains where a moderate amount was reported, Dixie where none was reported.

Days suitable for fieldwork 6.8. Soil moisture 90% short, 10% adequate. Oats harvested for grain 91%, 74% 1991. Winter wheat seeded 43%, 38% 1991, 45% avg. Field corn: dent stage 78%; 54% 1991, 67% avg.; mature 49%, 15% 1991, 30% avg.; harvested for silage 39%, 6% 1991, 19% avg. Alfalfa 3rd cutting 79%, 53% 1991, 66% avg. Alfalfa 4th cutting 14%. Alfalfa seed harvested 56%, 49% 1991. Potatoes harvested 47%, 28% 1991, 18% avg. Onions harvested 55%, 25% 1991, 30% avg. Dry bean harvest was just beginning. Peaches picked 96%, 70% 1991. Apples 29% picked, 9% 1991, 15% avg. Pears 98% picked. Cattle moved from summer range 26%, 13% 1991. Sheep moved from summer range 24%, 8% 1991. Pasture, range poor to fair.

**VIRGINIA:** Temperatures about 7° above normal for the week. Extreme high 93°. Precipitation was recorded in the northwest, the Northern Neck.

Days suitable for fieldwork 3.7. Topsoil 9% short, 63% adequate, 28% surplus. Pasture 2% poor, 16% fair, 61% good, 21% excellent. Corn dented 84%, 92% 1991, 86% avg.; mature 66%, 74% 1991, 70% avg.; silage harvested 36%, 60% 1991, 52% avg. Silage harvest slowed by wet weather. Corn harvested for grain 12%, 34% 1991, 26% avg. Soybean 48% fair, 43% good, 9% excellent. Peanuts 25% poor, 25% fair, 50% good. Spraying for peanut diseases. Fall apple harvest just beginning. Flue tobacco 72% harvested, 73% 1991, 59% avg. Fire tobacco 83% harvested, 94% 1991, 83% avg. Sun tobacco 74% harvested, 85% 1991, 81% avg. Burley tobacco 47% harvested, 69% 1991, 58% avg. Oats seeded 3%, 6% 1991, 3% avg. Barley seeded 2%, 5% 1991, 3% avg. Livestock mostly good. Harvesting some hay. Harvesting vegetables.

**WASHINGTON:** Temperatures 1 to 8° below normal west; 2 to 10° below normal east. Rainfall 0.02 to 0.95 in. west; none to 0.13 in. east.

Days suitable for fieldwork 6.5. Soil moisture 58% short, 42% adequate. Hay, other roughage 16% short, 68% adequate, 16% surplus. Range, pasture 5% very poor, 67% poor, 28% fair. Winter wheat planted 53%, 17% 1991, 31% avg.; emerged 20%, 11% 1991, 13% avg. Alfalfa hay third cut 92% complete, 79% 1991, 79% avg. Potatoes 28% harvested, 28% 1991, 32% avg. Corn silage 38% harvested, 17% 1991, 25% avg. Dry beans harvested 30%, 41% 1991, 31% avg. Winter wheat seeding active, except limited eastern areas waiting for moisture. Reseeding limited acreage due to dry, windy conditions. Emerged stands look good. Potato harvest continued; storage digging to begin shortly. Third cutting alfalfa winding down; fourth cutting rapidly

advances. Apple harvest gained momentum, as fruit maturity advanced rapidly. Optimum maturity reached for long term storage many orchards. Apple harvest continued west. Grape harvest continued central vineyards, yields average to slightly above. Fall raspberry harvest continued west. Summer vegetable shipments continued; fall lettuce, peas, radishes emerged west.

**WEST VIRGINIA:** Temperature 69°. Extremes 42°; 92°. Precipitation 0.68 in.

Days suitable for fieldwork 4.8. Soil moisture 18% short, 82% adequate. Tobacco 59% fair, 41% good; 100% topped, 63% harvested. Gardens mostly good. Hay 31% fair, 69% good; 77% second cut, 55% third cut. Apples good. Corn 2% fair, 96% good, 2% excellent; 78% dough stage, 72% mature, 10% harvested. Pastures 16% fair, 69% good, 15% excellent; 91% of normal. Cattle good. Sheep mostly good. Soybeans good; 85% bloomed, 82% setting pods. Activities: General maintenance; cutting hay; clipping pastures; topping tobacco; harvesting hay, corn, tobacco, apples.

**WISCONSIN:** Temperature 58°; 5° below normal. Extremes 30°; 83°. Precipitation 0.60 to 2.00 in. Statewide rainfall during the week kept all fieldwork at a minimum.

Days suitable for fieldwork 2.8. Soil moisture 18% short, 69% adequate, 13% surplus. Pasture 72% of normal, 70% 1991, 73% avg. General condition of crops 3% poor, 39% fair, 58% good. Oats 88% harvested. Corn 2% very poor, 8% poor, 35% fair, 55% good; 60% in dough stage or beyond, 100% 1991, 93% avg.; 25% in dent stage or beyond, 83% 1991, 75% avg.; 5% mature, 41% 1991, 36% avg. Third crop hay 50% harvested, 70% 1991, 61% avg. Soybean 4% poor, 34% fair, 61% good, 1% excellent. Soybeans 25% turned, 76% 1991, 53% avg. Winter wheat seeding has started, mainly between rains. Blue mold has been discovered in tobacco fields across the State, especially in the northern growing area. Apple crop looks good in the State, although it is behind normal, as are other crops.

**WYOMING:** Below normal temperatures across the entire State last week. North central region was the coolest averaging 7° below normal. Rest of State 1 to 5° below normal. Precipitation below normal across much of the State, with the exception of the north central region which received 0.10 to 0.30 in. above normal precipitation.

Days suitable for fieldwork 6.2. Topsoil 47% short, 53% adequate. Spring wheat 8% mature, 8% 1991; 92% harvested, 92% 1991. Oats 13% mature, 12% 1991, 9% avg.; 87% harvested, 88% 1991, 91% avg. Barley 11% mature, 12% 1991; 89% harvested, 88% 1991. Dry beans 41% leaves turning color, 38% 1991, 38% avg.; 33% windrowed, 35% 1991, 32% avg.; 26% combined, 27% 1991, 30% avg. Corn 14% milk, 3% 1991, 6% avg.; 47% dough, 31% 1991, 32% avg.; 30% dented, 61% 1991, 48% avg.; 10% mature, 5% 1991, 12% avg. Corn silage 28% harvested, 28% 1991, 36% avg. Potatoes 20% harvested, 11% 1991, 19% avg. 1993 Winter wheat 36% not planted, 34% 1991, 50% avg.; 43% planted, 52% 1991, 32% avg.; 21% emerged, 14% 1991, 18% avg. Alfalfa 87% of second cutting completed; 26% of third cutting completed, 27% 1991, 39% avg. Dry beans in mostly fair to good. Sugarbeets fair to mostly good. Corn mostly fair to good. Prospects for winter grazing 15% poor, 42% fair, 43% good. Hay, roughage supplies 2% very short, 37% short, 52% adequate, 9% surplus.

## International Weather and Crop Summary HIGHLIGHTS

September 6 - 12, 1992

**FSU:** In western areas, summer crop harvesting and winter grain planting continue under mixed weather conditions. In the **New Lands**, warm, dry weather in the west favors spring grain maturation and harvest. Cool, damp weather in the east slows crop maturation.

**EUROPE:** Drier weather covers much of Europe, but beneficial rain falls in Poland.

**SOUTH ASIA:** Showers cause flooding and some damage to maturing cotton and rice in northern Pakistan and India.

**EASTERN ASIA:** South-central China is becoming somewhat dry.

**SOUTHEAST ASIA:** The drying trend continues over Indochina.

**AUSTRALIA:** Eastern wheat areas are becoming dry, while favorable moisture exists elsewhere.

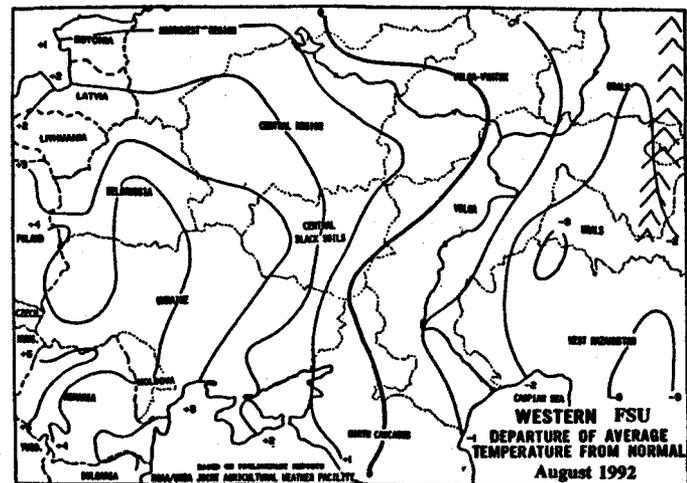
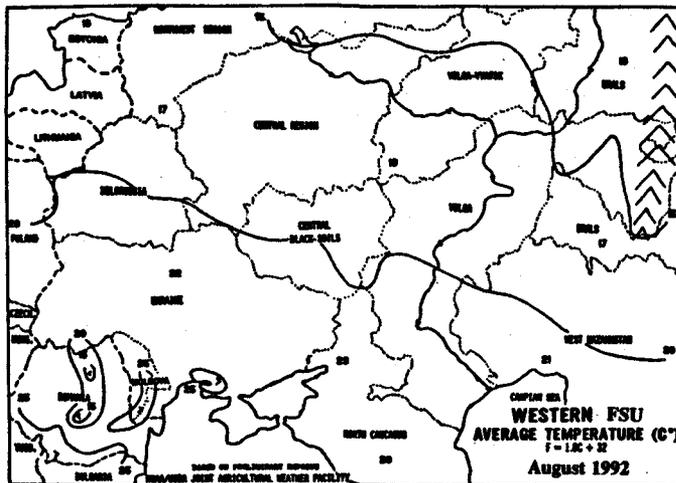
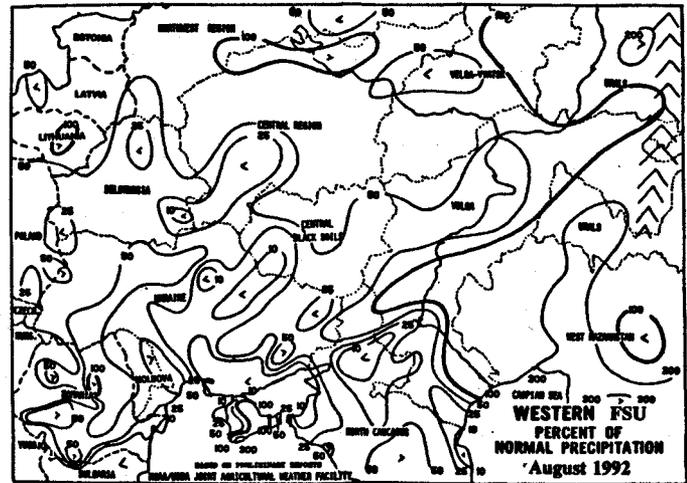
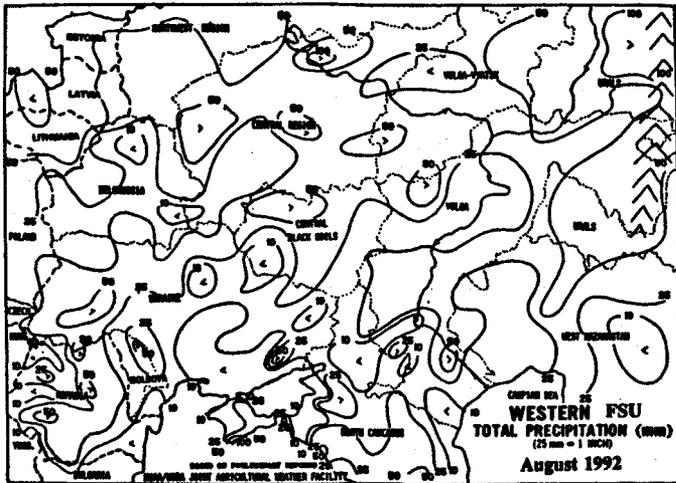
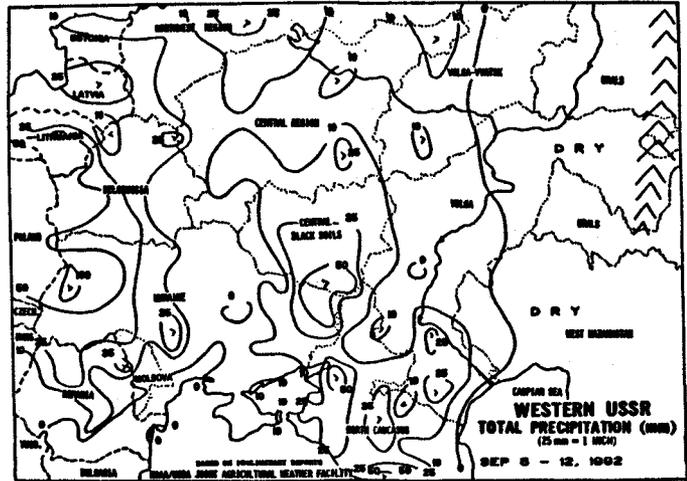
**SOUTH AMERICA:** Widespread rain aids wheat and pre-planting moisture for summer crops in Argentina.

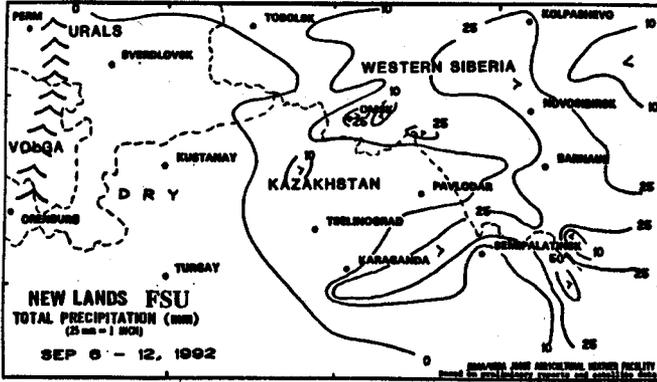
**MEXICO:** Seasonal rains continue to benefit corn.

**CANADA:** Dry, but cool, weather brings some relief to immature crops in Alberta and Saskatchewan. Cold, wet weather causes further damage in Manitoba.

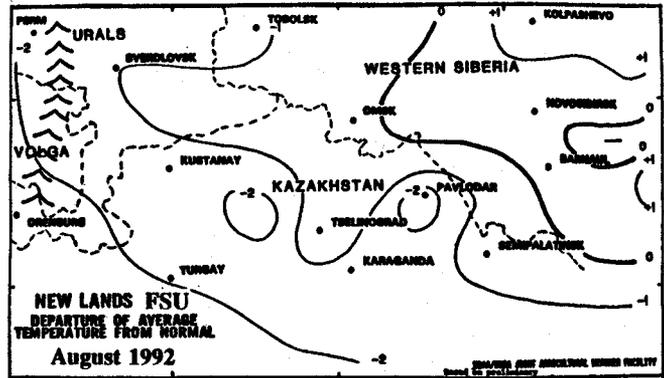
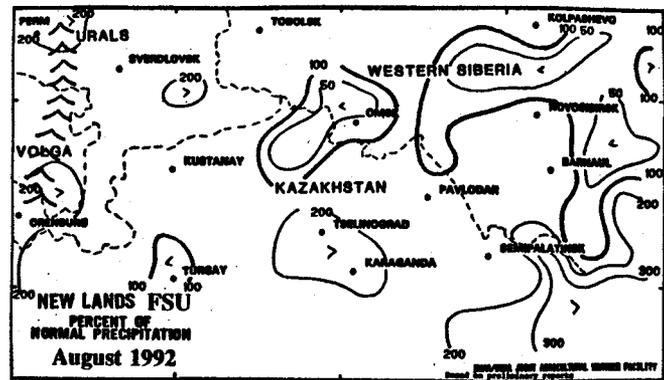
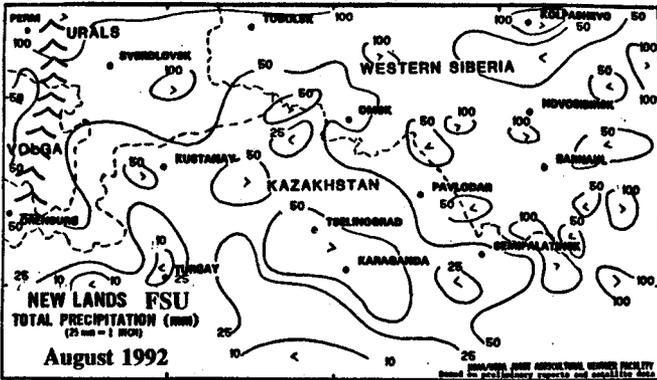


**FSU - WESTERN:** Wet weather (precipitation ranging from 10-40 mm, with local amounts in excess of 50 mm) covered the Baltic States, Belarus, western Ukraine, the southern portion of Central Region, Central Black Soils Region, eastern Ukraine, and North Caucasus. While the rain in these areas slowed summer crop harvests, it reversed August's below-normal rainfall pattern, providing adequate to abundant topsoil moisture for winter grain planting. Elsewhere, dry weather in eastern Belarus, central Ukraine, and Volga Valley helped summer crop harvests but continued to create unfavorable conditions for winter grain planting. In August, harvesting was well underway, and planting of the 1993 winter grain crop began in northern areas. The Baltic States, Belarus, Central Region, Volga Vyatsk, Central Black Soils, Ukraine, Moldava, North Caucasus, and Volga Valley received well-below-normal rainfall in August. Furthermore, above-normal temperatures over these areas increased evaporation rates, further exacerbating the dry conditions. While these conditions helped spring grain harvest, it caused further stress on summer crops and limited moisture for winter grain planting.

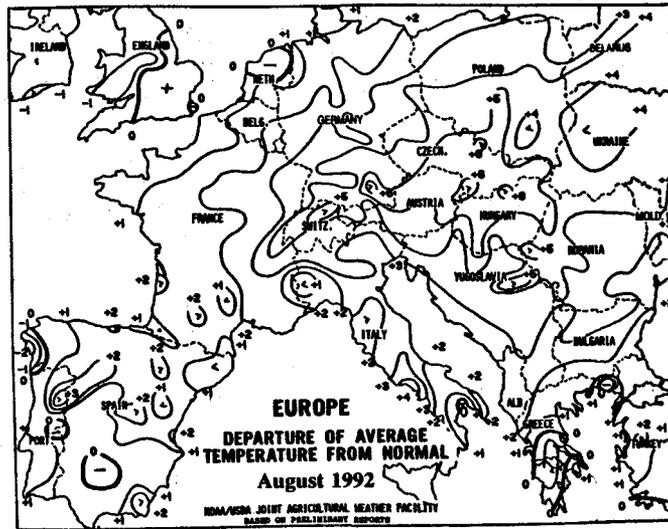
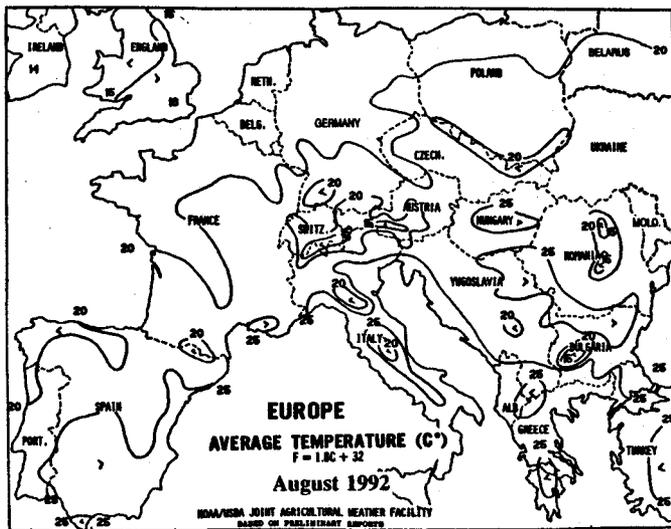
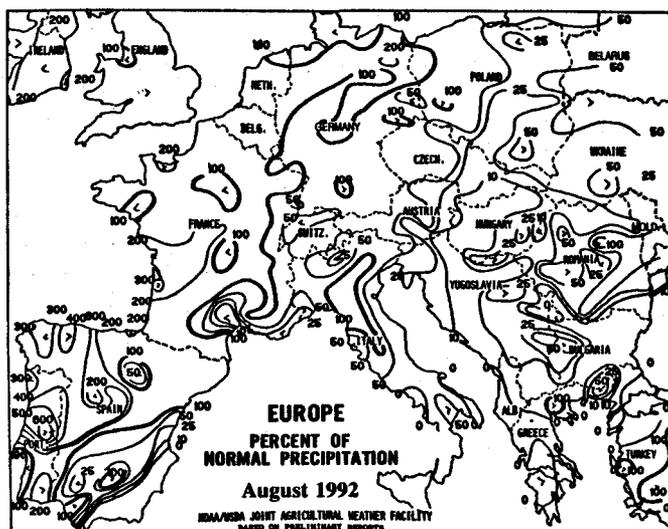
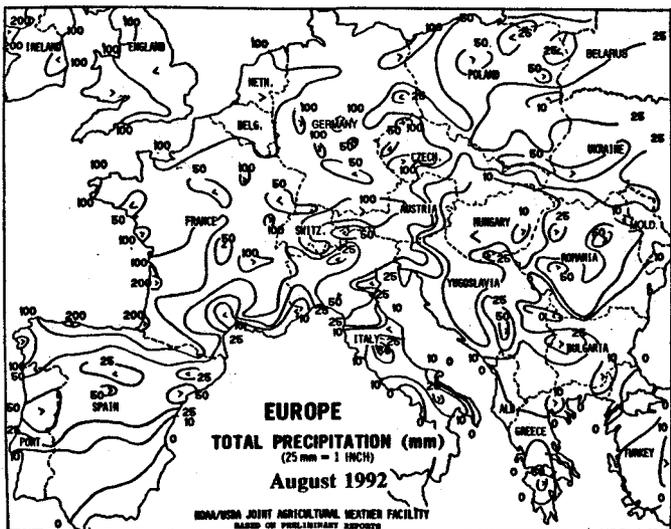
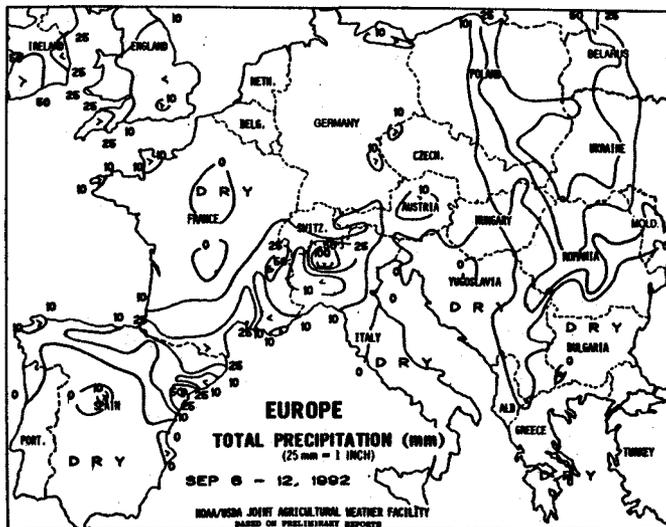


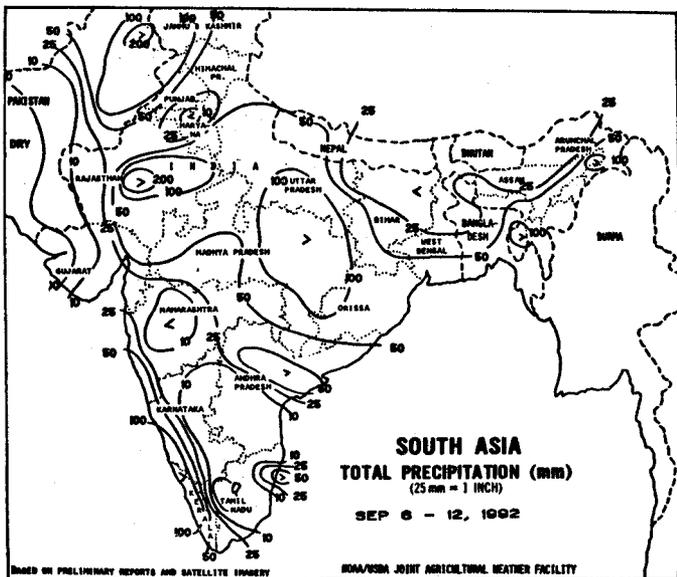


**FSU - NEW LANDS:** Because of delayed planting due to wetness and an unusually cool summer, spring grains were still ripening, with the bulk of harvest to occur in coming weeks. Unseasonable warm, dry weather covered the western half of the region, favoring spring grain maturation and harvest. In contrast, cool, damp weather continued over the east, slowing crop maturation and harvest. In August, although above-normal precipitation in the Urals, Kazakhstan, and Western Siberia benefited spring grains in the filling stage, below-normal temperatures slowed crop development.

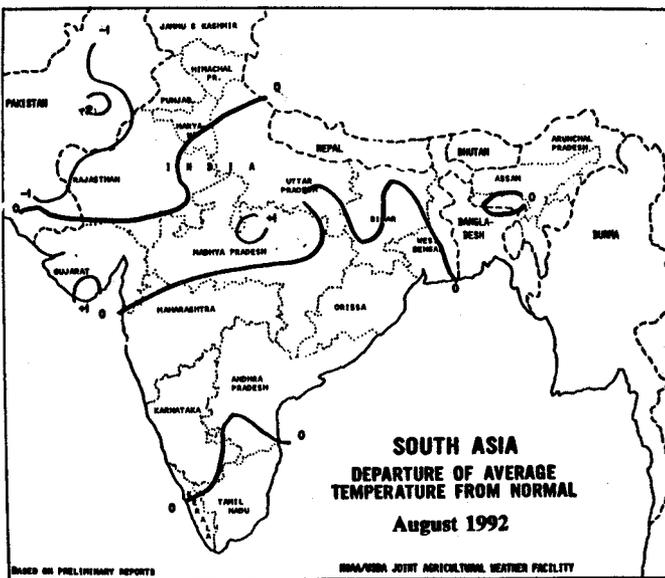
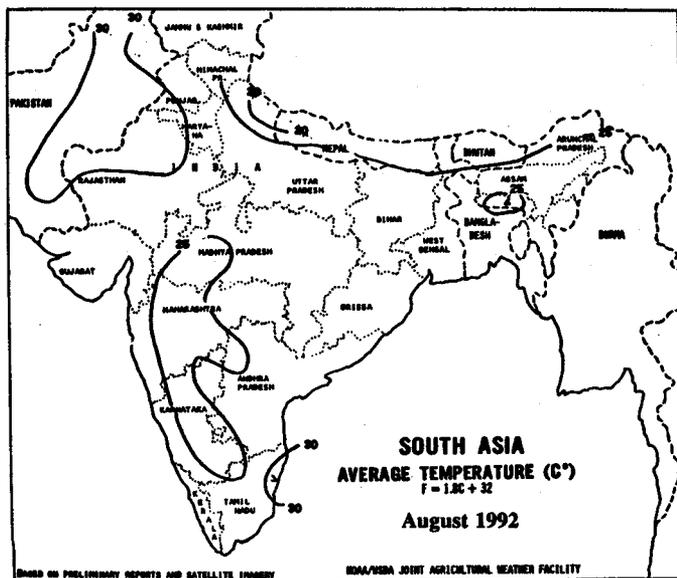
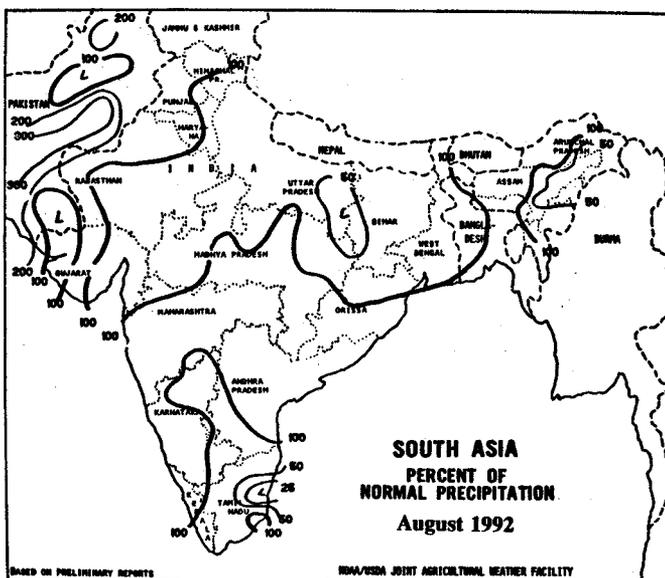
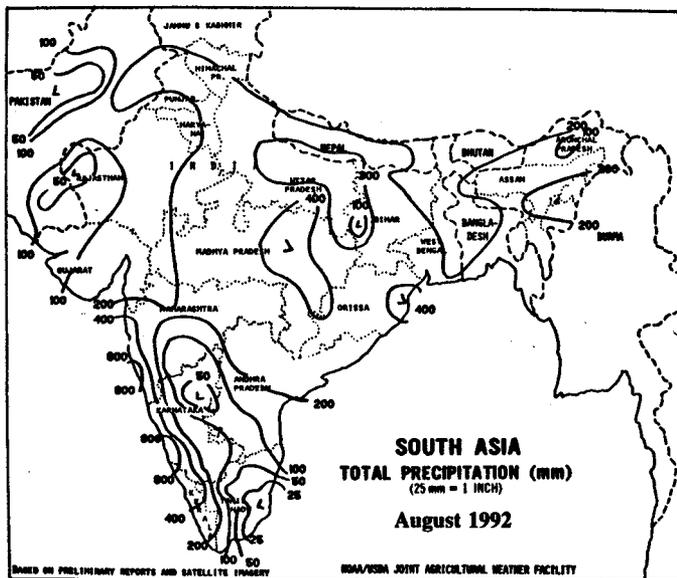


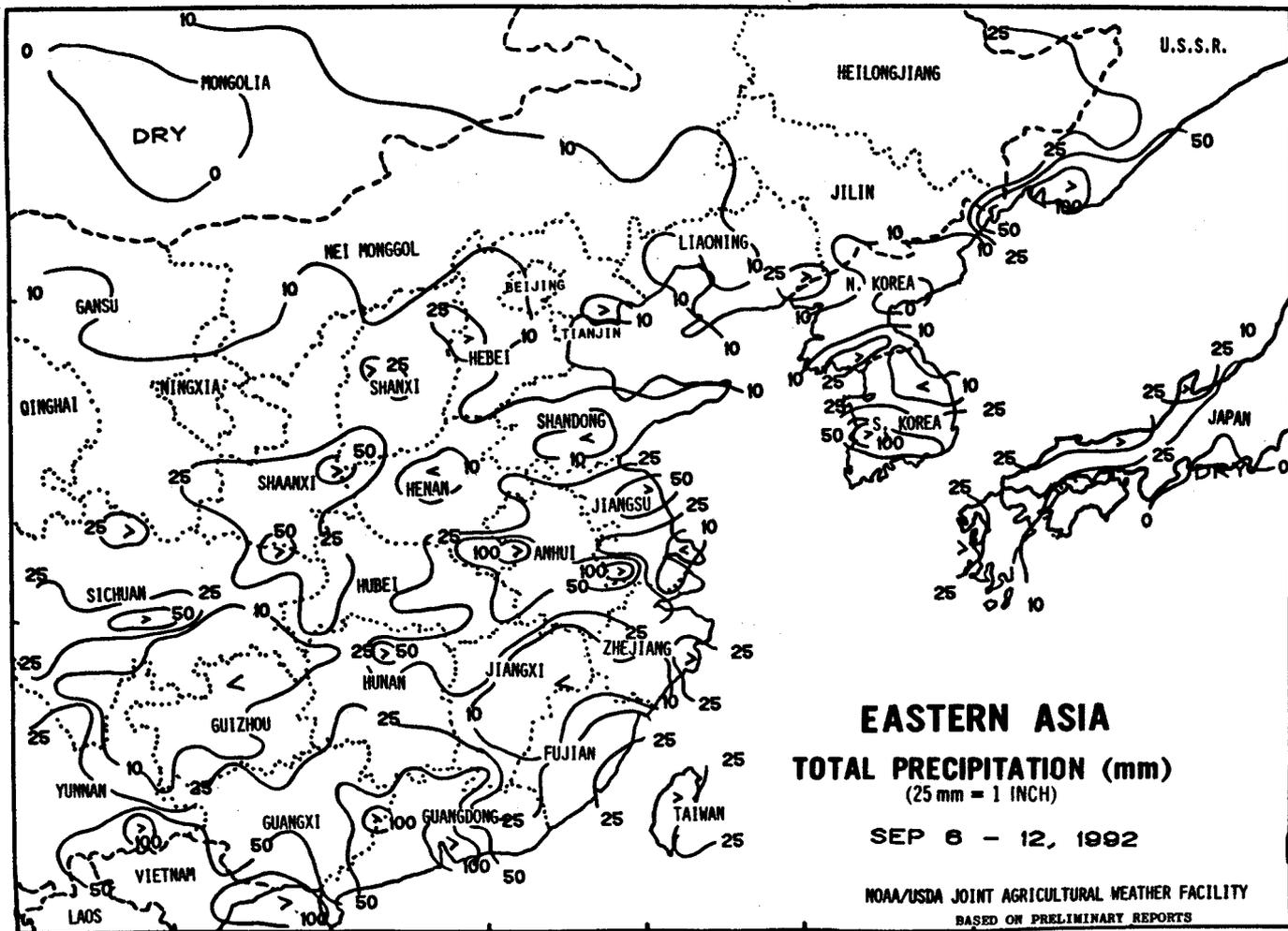
**EUROPE:** Drier weather returned to much of Europe, following the previous week's widespread rainfall. Totals generally averaged less than 10 mm from eastern England to western Poland. Mostly dry weather prevailed in France. Locally heavy showers (25-75 mm or more) fell in eastern Poland, extreme eastern Czechoslovakia, northern portions of Romania and Italy, and northern and western portions of the United Kingdom. Persistent wetness has hampered harvesting in the United Kingdom, with August rainfall averaging well above normal throughout the area. August rainfall was also above normal over much of western and north-central Europe, providing ample moisture for late-summer crop development and improving topsoil moisture in northern Germany and Denmark for autumn planting of winter crops. August rainfall was well below average in eastern portions of Poland and Czechoslovakia, Hungary, and much of southeastern Europe. Above-average monthly temperatures accompanied the dryness in eastern Europe, increasing stress on immature crops. Recent rain in the northeast improved topsoils for winter crop planting.





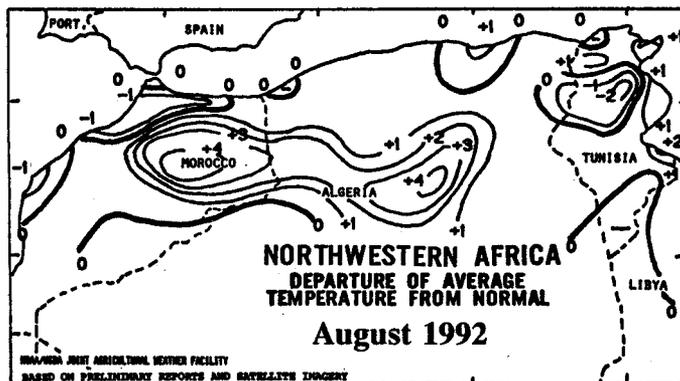
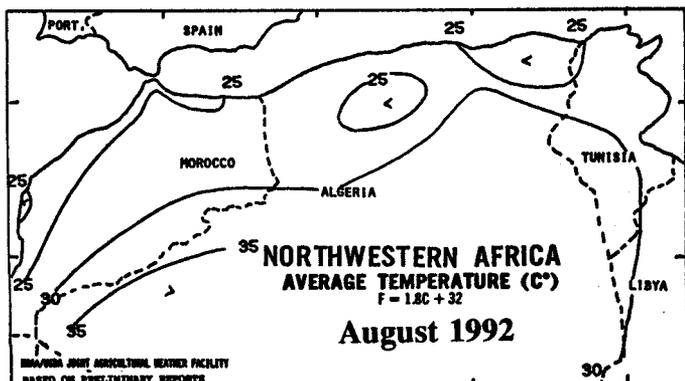
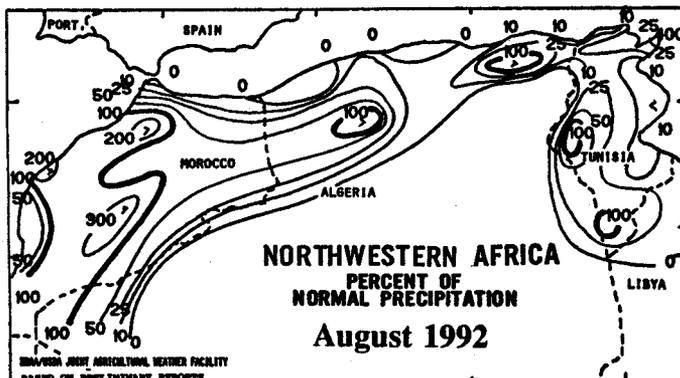
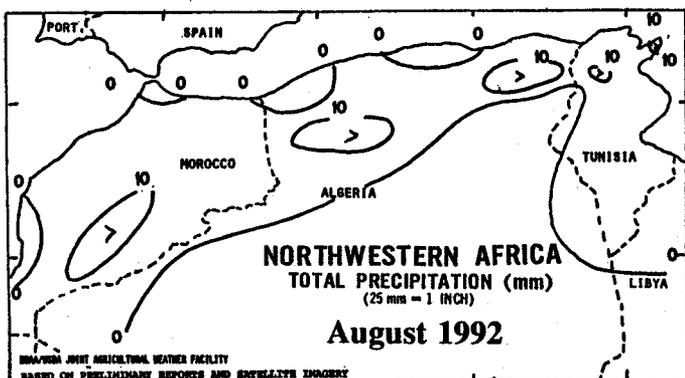
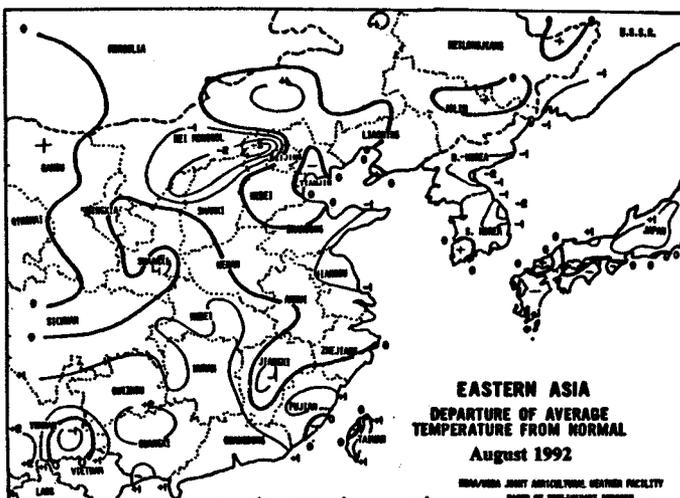
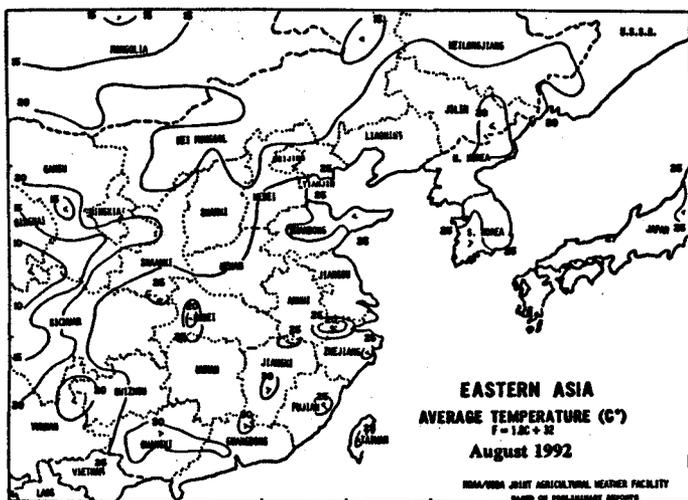
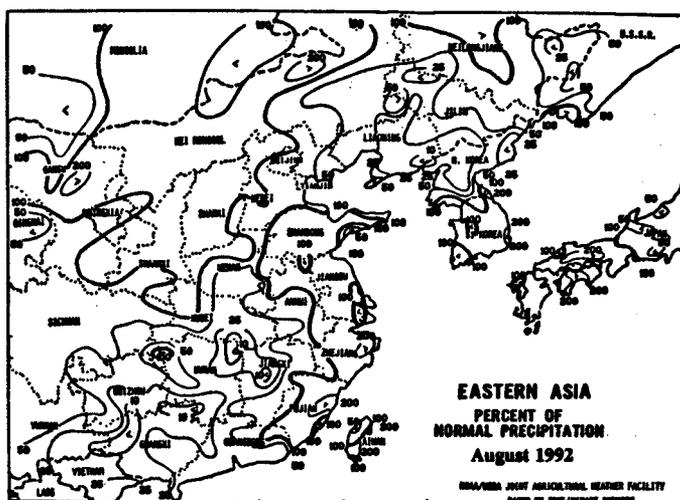
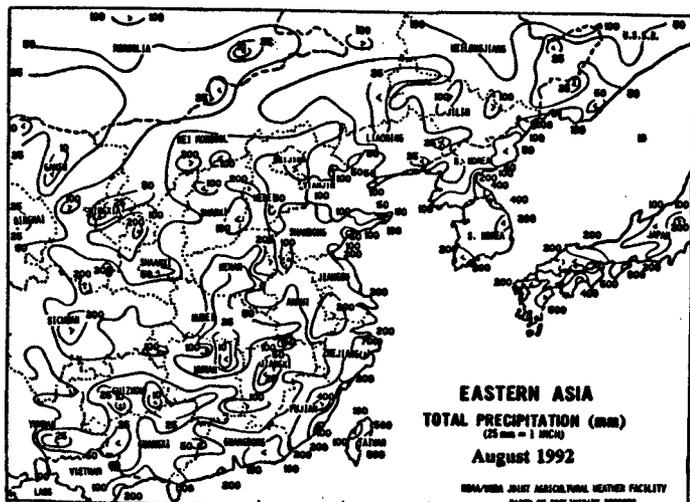
**SOUTH ASIA:** Heavy showers (50-131 mm) soaked maturing cotton and rice over a broad area of northern Pakistan and north-central India. The heavy rain fell in a short period, resulting in flooding and damage to crops, especially along the Indus River. Heavy rain (50-172 mm) also covered a large section of east-central India's rainfed rice, as well as local areas of the eastern States and Bangladesh. Rainfall was mostly light (15 mm or less) over India's southern interior, although recently dry regions of eastern Maharashtra and northern Andhra Pradesh received needed rains (23-91 mm). In August, the monsoon strengthened over central and northern India and Pakistan, providing beneficial moisture for filling summer crops but resulting in flooding, especially for southern Pakistan's cotton. Rain fell late in the month over rain-fed rice and winter wheat areas of north-central India, bringing some relief from the season's long dry spell. Further south, the drying trend continued over India's southern interior and developed over crop areas of Gujarat, reducing moisture for filling crops. Temperatures averaged within 1 degree of normal across the region, except for the wet regions of Pakistan, which were cooler.

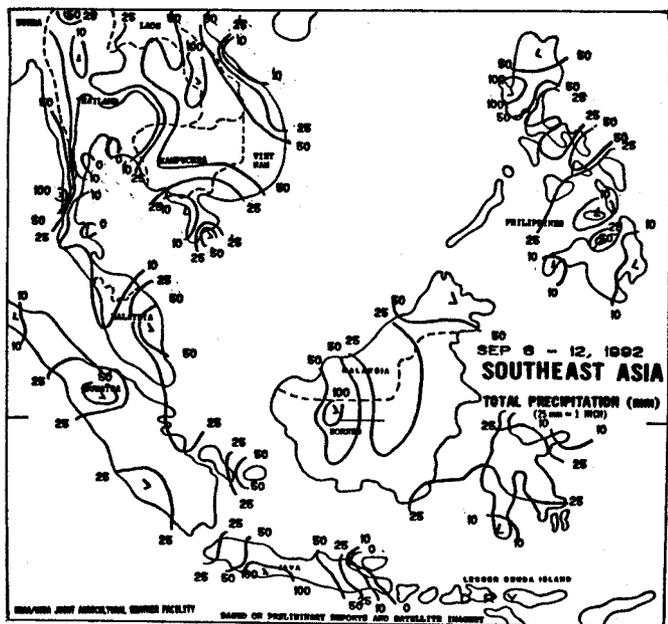




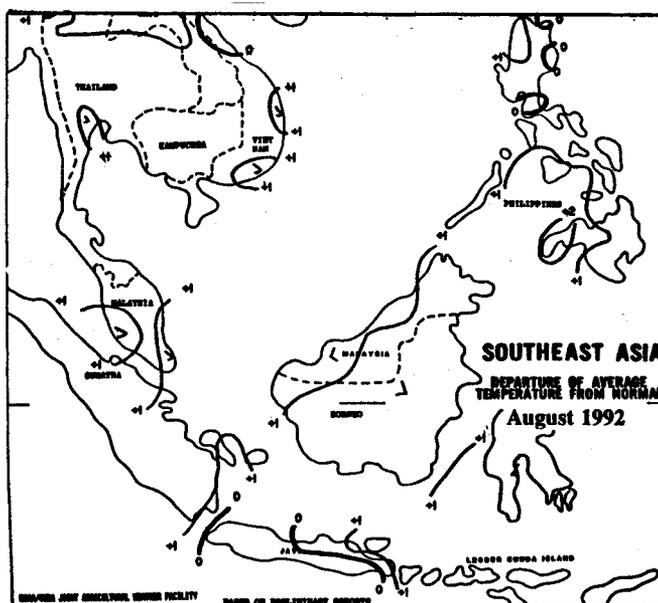
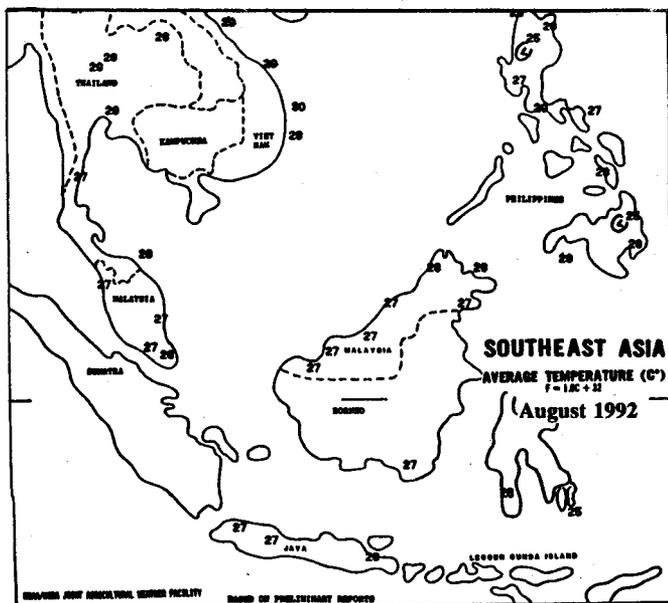
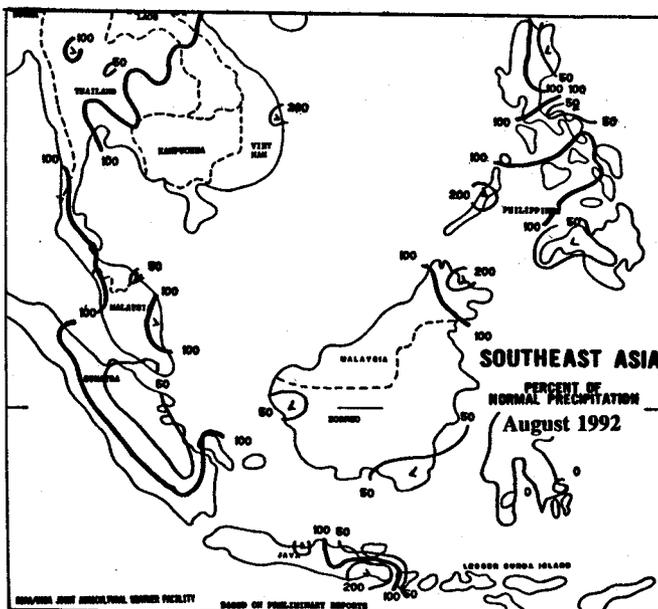
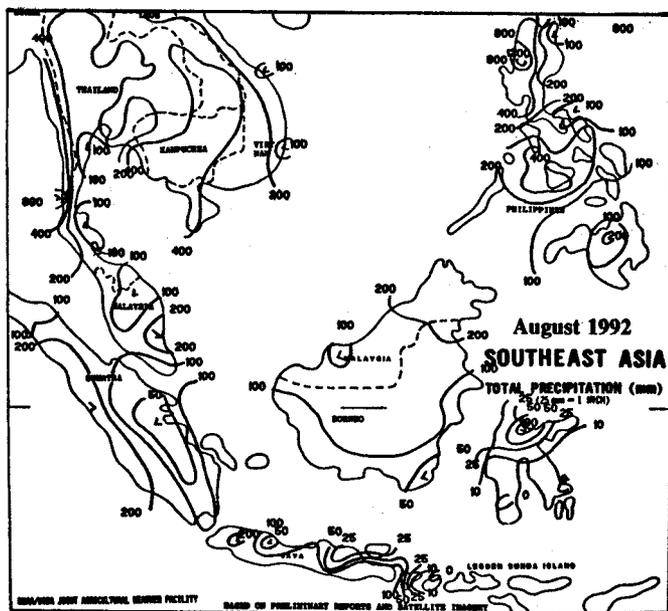
**EASTERN ASIA:** Moderate to locally heavy rain (31-134 mm) fell across Hubei, Anhui, and Jiangsu, causing harvest delays and possible damage to cotton. Further north across Shandong and Henan, light rain (6-15 mm) was common, which favored late-filling summer crops. Manchuria received light rains (7-22 mm), aiding filling to maturing corn and soybeans. Across southern China, scattered light rain aided single-crop rice harvesting, but persistent dryness has raised concerns about the availability of irrigation for late double-crop rice. However, southern reservoirs should still have enough capacity to finish the season.

Moderate to heavy rain (26-172 mm) fell across Guangdong, favoring sugarcane and reservoirs for rice irrigation. Late in the week, remnants of Typhoon Ryan brushed the northern Japanese island of Hokkaido, producing widespread heavy rain (60-200 mm) along the eastern half of the island. Weekly temperatures averaged near normal across most of China. During August, most of the North China Plain, eastern China, and northern Manchuria received near- to above-normal rainfall. However, southern Manchuria and the south-central rice areas reported below-normal August rain.

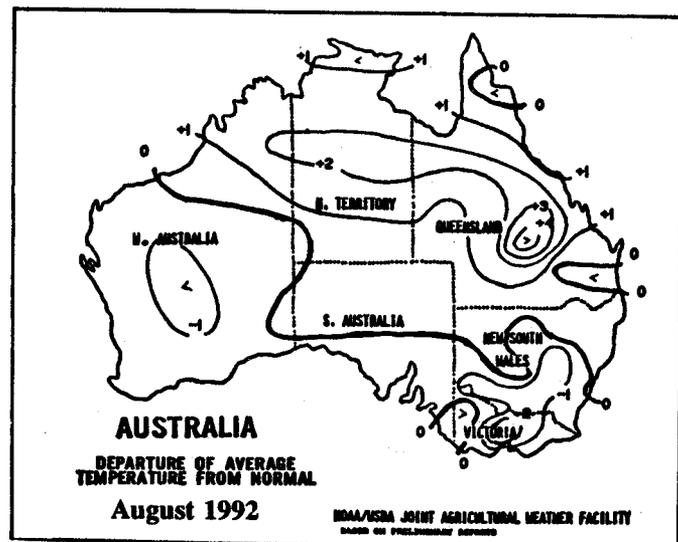
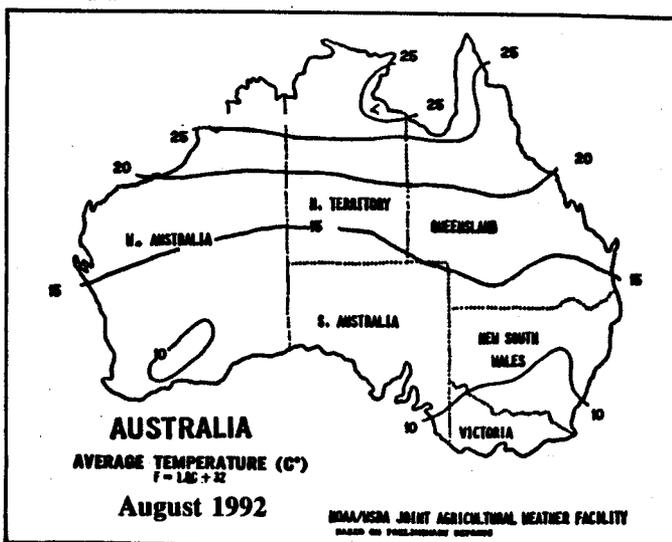
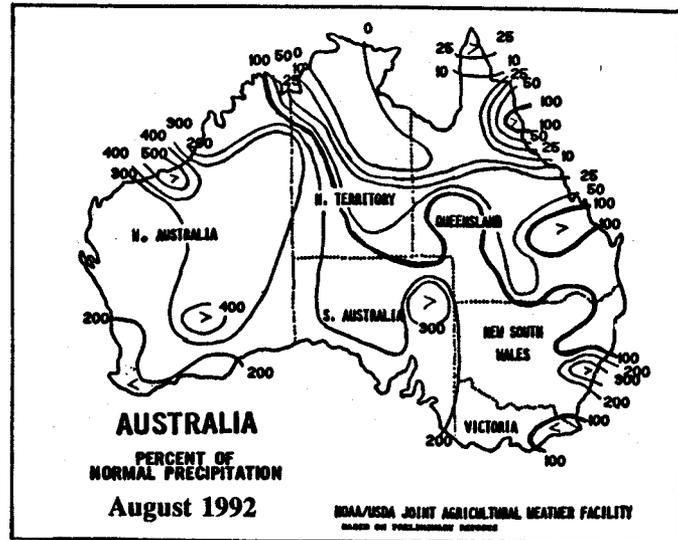
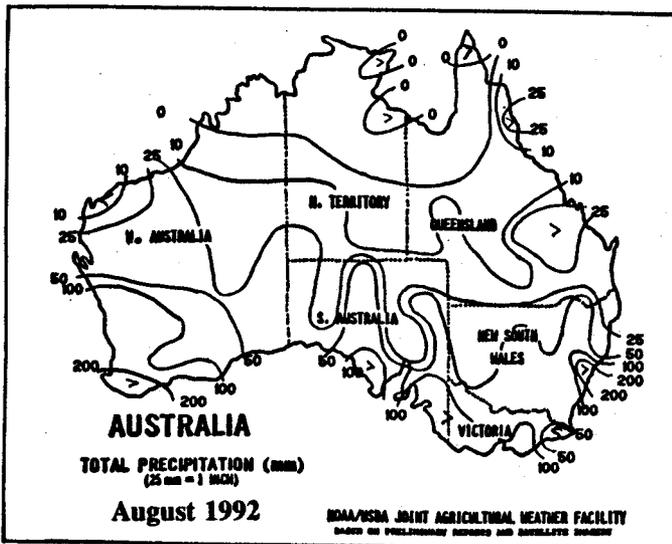
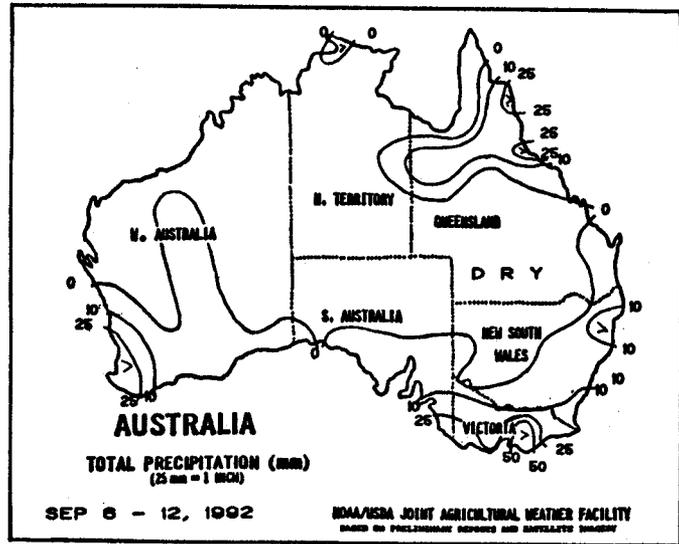


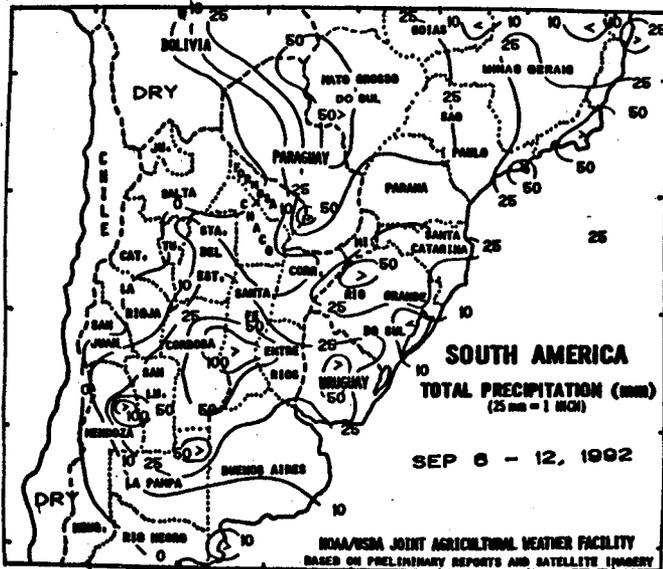


**SOUTHEAST ASIA:** The drying trend continued over Thailand, with much of the central Plateau and lower Chao Phraya receiving less than 25 mm. However, beneficial rain (35-100 mm or more) continued over the Northern Hills, eastern Thailand, and parts of the northern corn belt, boosting moisture for late-planted corn and rice. Rainfall elsewhere in Indochina was highly variable, with only isolated reports of 50 mm or higher. Rainfall also tapered off over Java, with heavy rain (27-105 mm) limited to central rice areas. In the Philippines, moderate to heavy showers (25-50 mm or more) covered much of Luzon and the northwestern Visayas, but mostly light rain persisted elsewhere. In August, rainfall was near to above normal over most of Indochina, except for rice and corn areas of central Thailand which were trending dry. Heavy showers caused flooding along the Mekong River. Flooding also occurred over western Luzon, Philippines and the western Visayas due to the increase of Typhoon activity in the western Pacific. Unseasonably dry, warm weather persisted elsewhere in the Philippines, however, reducing moisture for corn and rice. In contrast, unseasonably heavy August showers boosted irrigation in Java's main rice areas.

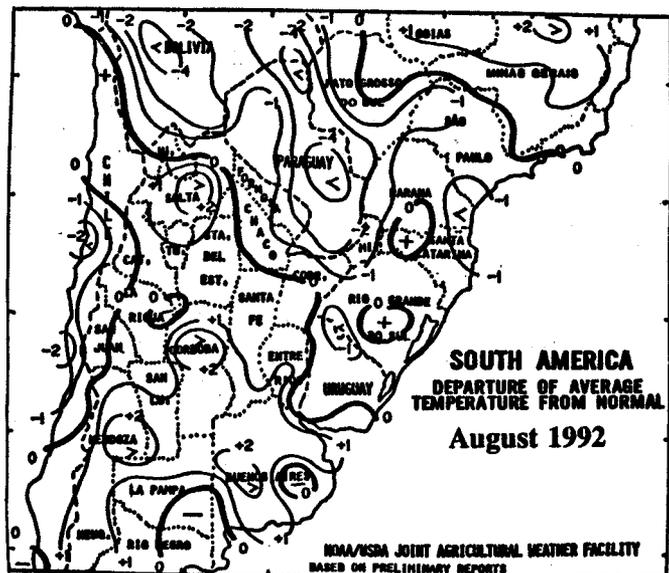
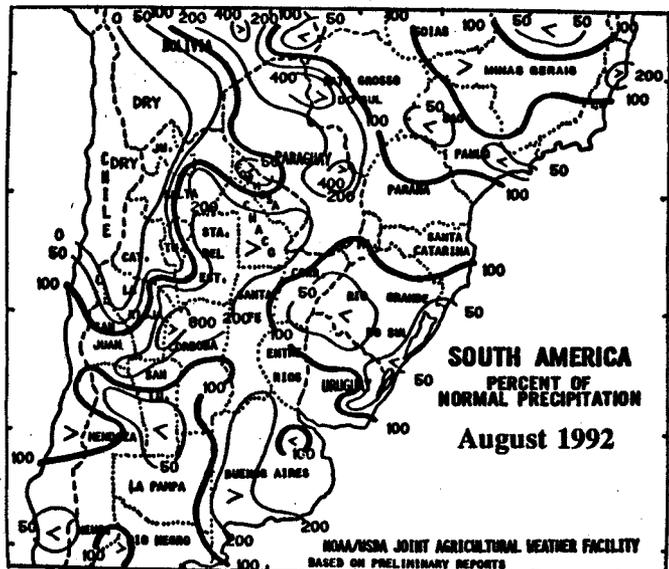
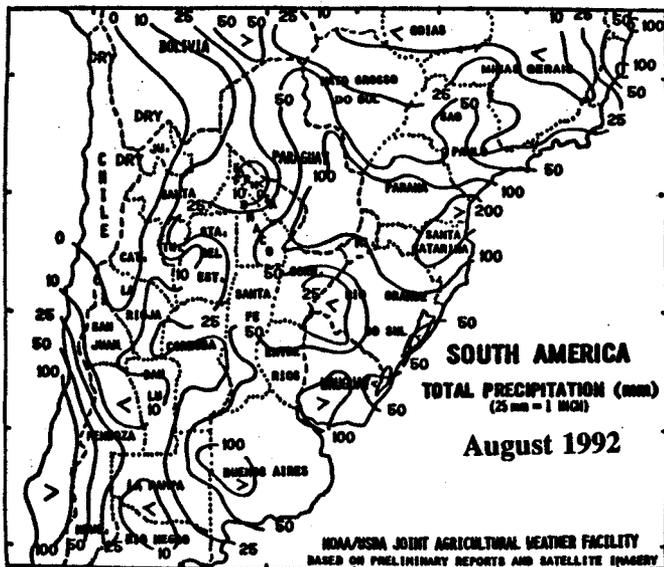


**AUSTRALIA:** Dry weather returned to southern Queensland and northern New South Wales, where soil moisture is starting to become limited again. This region received below- to near-normal rain during August and will need continued rain to stabilize wheat yield prospects. Light rain (2-16 mm) fell across the remaining southern and western wheat areas, aiding vegetative wheat. These areas reported near- to above-normal August rain, with the western wheat areas receiving twice the normal rainfall. Weekly temperatures averaged 1-3 degrees below normal across most wheat regions.

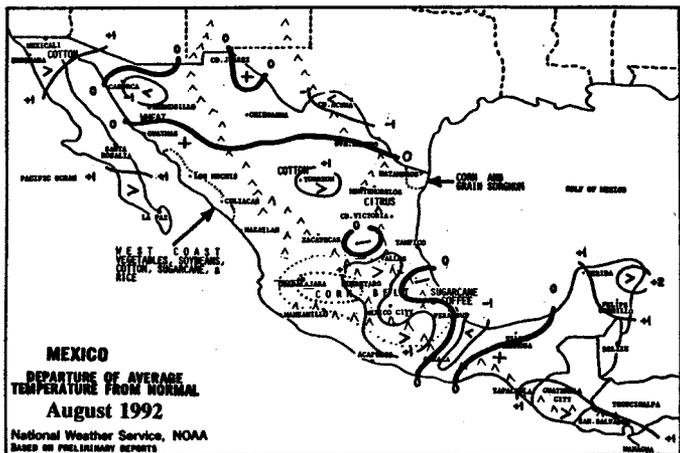
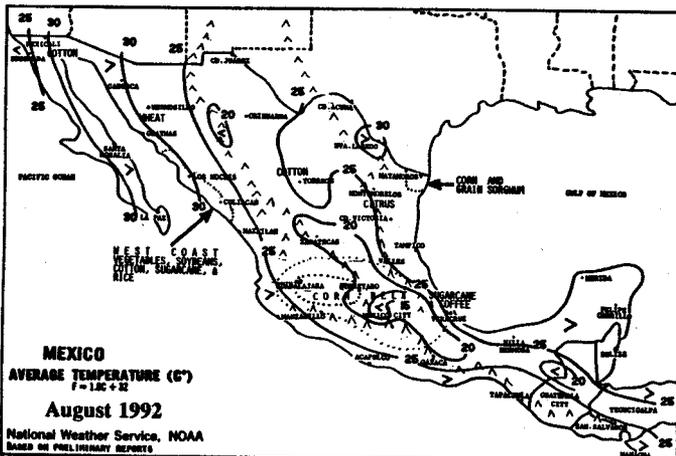
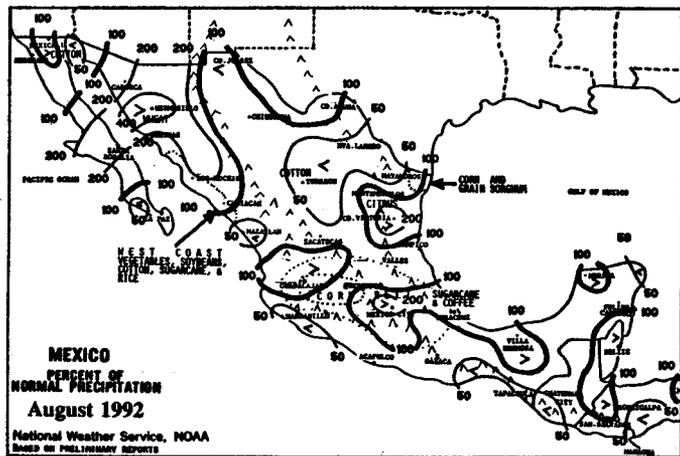
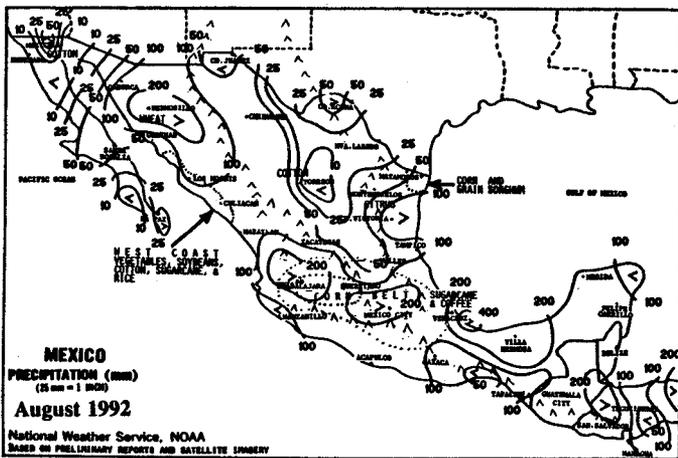
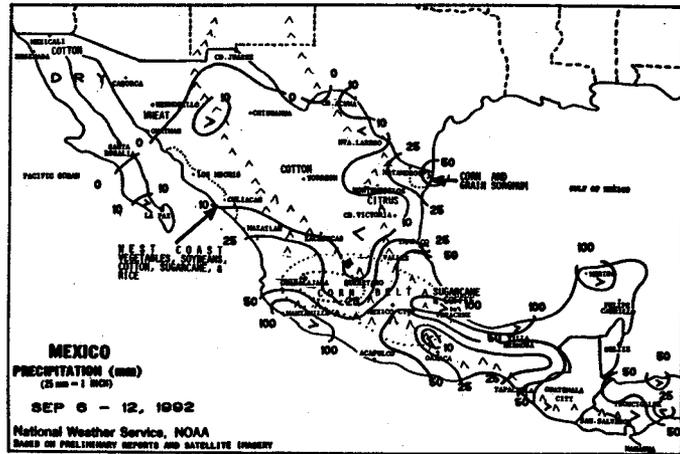




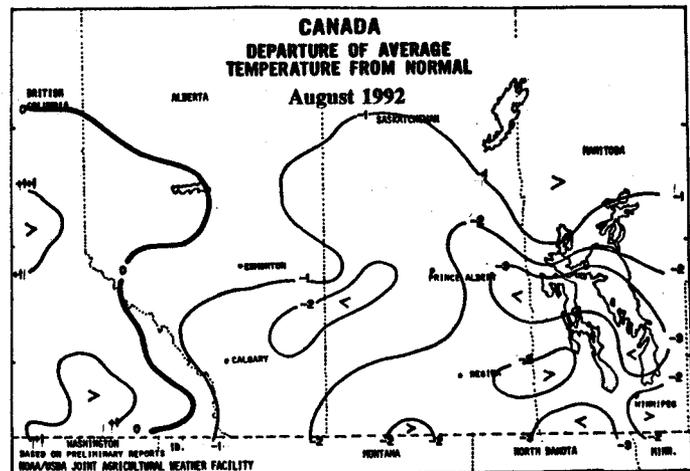
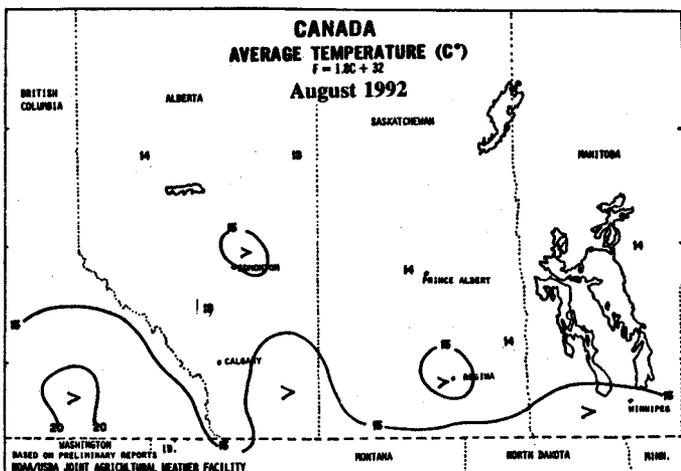
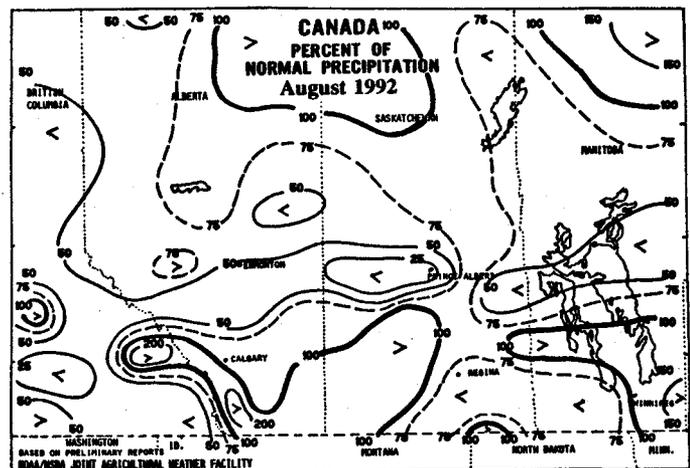
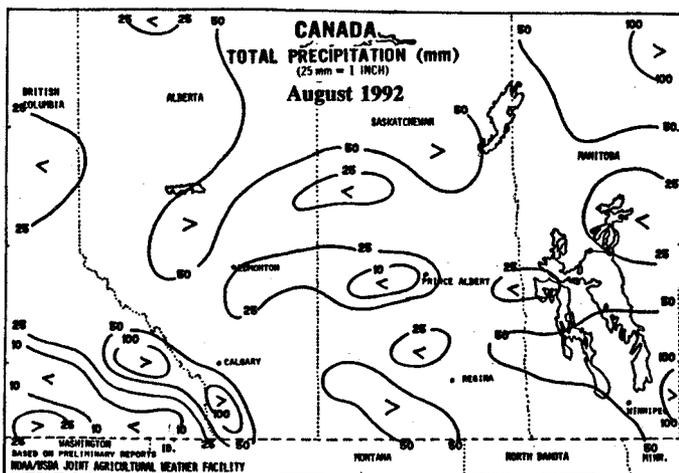
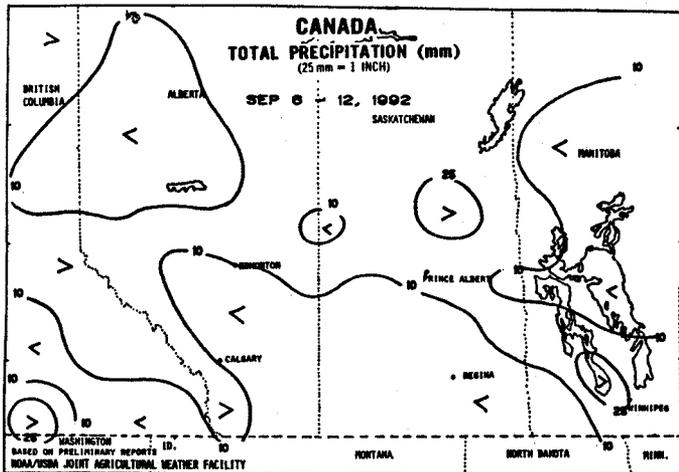
**SOUTH AMERICA:** Central Argentina received moderate to heavy soaking rain (24-106 mm), benefiting vegetative to reproductive winter wheat and pre-planting moisture for summer crops. The rains were especially welcomed in the western wheat areas, which experienced below-normal August rain. The remaining Argentine crop areas received normal- to above-normal August rain, favoring winter wheat growth. In southern Brazil, moderate showers (24-92 mm) covered Rio Grande do Sul, Santa Catarina, and Mato Grosso do Sul, increasing soil moisture for the upcoming summer crop growing season. In eastern Parana, winter wheat harvesting progressed as the region received only light rain. Weekly temperatures averaged 1-2 degrees C above normal in central Argentina and extreme southern Brazil, and 1-2 degrees C below normal in south-central Brazil. Portions of Rio Grande do Sul, Sao Paulo, and Parana received significantly below-normal August rain, while the remaining areas received near- to slightly above-normal rain.

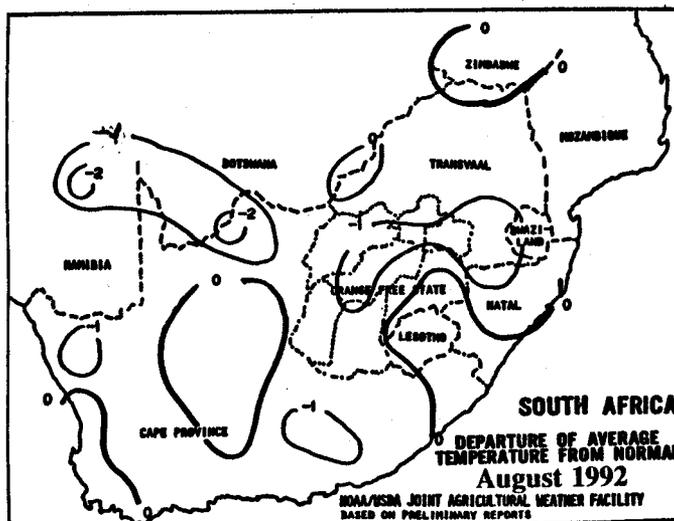
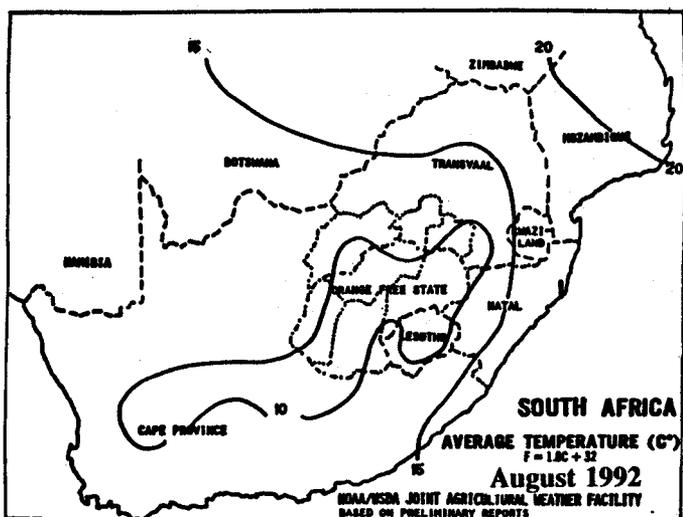
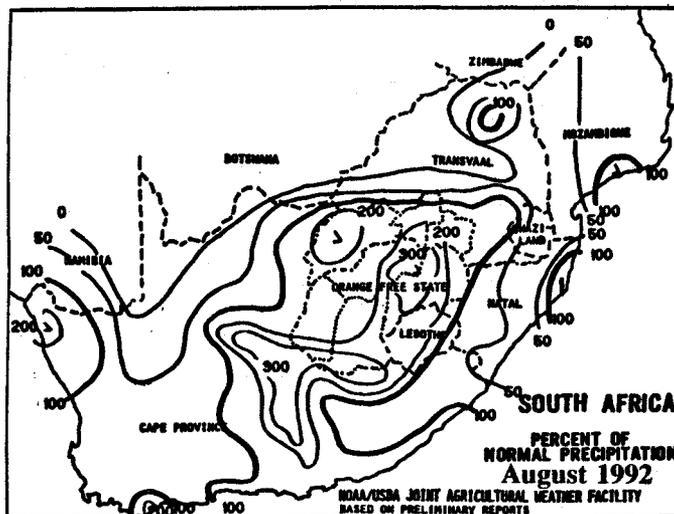
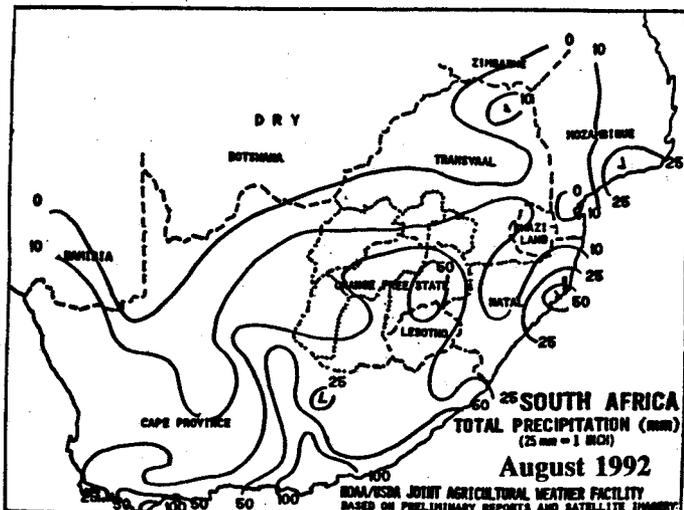


**MEXICO:** Moderate to heavy rain (31-112 mm) fell over most of the Southern Plateau corn belt, favoring filling corn. Moderate rain (62-100 mm) covered the Yucatan peninsula, aiding vegetative to reproductive corn. Beneficial dry weather continued across the northwest. Weekly temperatures averaged 1-2 degrees C above normal across the corn belt. During August, most crop regions received near- to above-normal rains, favoring reproductive summer crops.



**CANADA:** Precipitation totaled less than 10 mm over most of Alberta and Saskatchewan, allowing crops to dry, following last week's wet weather. However, temperatures were 3-4 degrees C below normal, slowing the drying process. In Manitoba, minimum temperatures reached -1 to -3 degrees C and precipitation totaled 10-25 mm, hampering harvests and further reducing quality potential of spring grains and oilseeds. In Ontario and Quebec, moderate to heavy showers (25-59 mm) covered primary summer grain areas. Temperatures averaged near normal, but lows were reported down to 2 degrees C in Ontario's corn belt, where much of the crop is immature due to this season's cool weather. In August, all summer grain and oilseed areas of Alberta and Saskatchewan received their first freeze (1-4 weeks ahead of schedule), damaging crops lagging behind in development due to this season's persistent cool weather. Hardest hit were northern canola areas, replanted after a late June frost. Showers (rain and snow) accompanied the cool weather, causing further damage to the crop and reducing quality. In Manitoba, local frost occurred in western and northern crop areas but primary areas were spared a killing freeze. In Ontario and Quebec, periodic showers helped summer crops but likely lodged some small grains. Temperatures were cool but no freeze occurred.





(Continued from front cover)  
**Plains.** Nearly 5 inches deluged areas near **Jacksonville, FL.** On Friday, Hurricane "Iniki," packing 130 miles per hour sustained winds, tore across heavily agricultural but lightly populated **western Kauai Island.** Heavy surf pounded south-facing coastal areas. In **Alaska,** temperatures plunged below freezing and snow developed in the interior. Meanwhile, cool, dry air blanketed the **contiguous States.** Temperatures sagged to 34°F in **St. Cloud, MN,** 35°F in **Waterloo, IA,** and 38°F in **Youngstown, OH.** At week's end, stormy weather arrived in the **Northwest.** A dust storm shrouded **eastern Washington** as winds gusted above 50 miles per hour.

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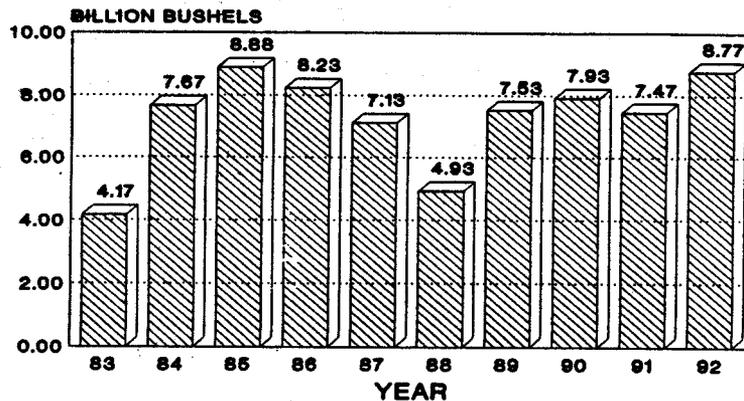
## Corn and Soybean Production Up Slightly

Corn for grain production is forecast at 8.77 billion bushels, up slightly from last month and 17 percent above the 1991 crop, according to the forecast released on September 10, 1992, by the U.S. Department of Agriculture's Agricultural Statistics Board. The U.S. average yield per acre is forecast at 121.4 bushels, up 0.1 bushel from last month and 12.8 bushels above the 1991 average.

Soybean production is forecast at 2.08 billion bushels as of September 1, virtually unchanged from the August 1 forecast but 5 percent above 1991. Yield is estimated at 35.9 bushels per acre, 0.1 bushel above August 1 and 1.6 bushels above 1991.

All wheat production is expected to total 2.41 billion bushels, up 3 percent from August 1 and 22 percent higher than 1991. Yield forecast is 38.2 bushels per acre, 1.2 bushels more than last month.

### U.S. CORN PRODUCTION 1983 - 1992



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