

WEEKLY WEATHER AND CROP BULLETIN

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

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

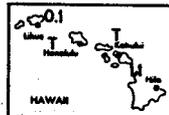
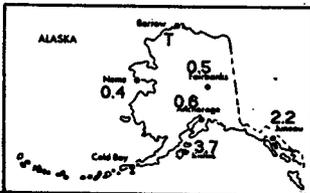
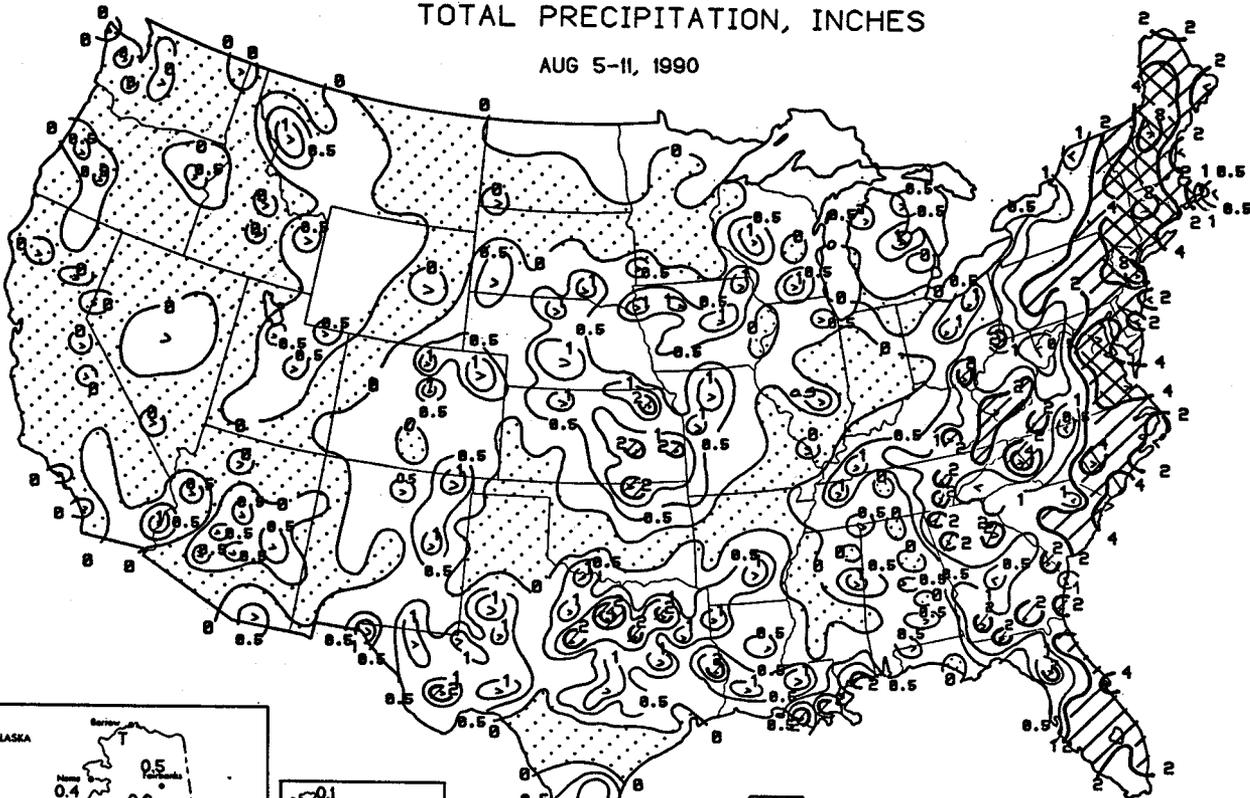
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Washington, D.C.

August 14, 1990

TOTAL PRECIPITATION, INCHES

AUG 5-11, 1990



GREATER THAN 2 INCHES
 GREATER THAN 4 INCHES
 NO PRECIPITATION

NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY

Based on preliminary reports

HIGHLIGHTS

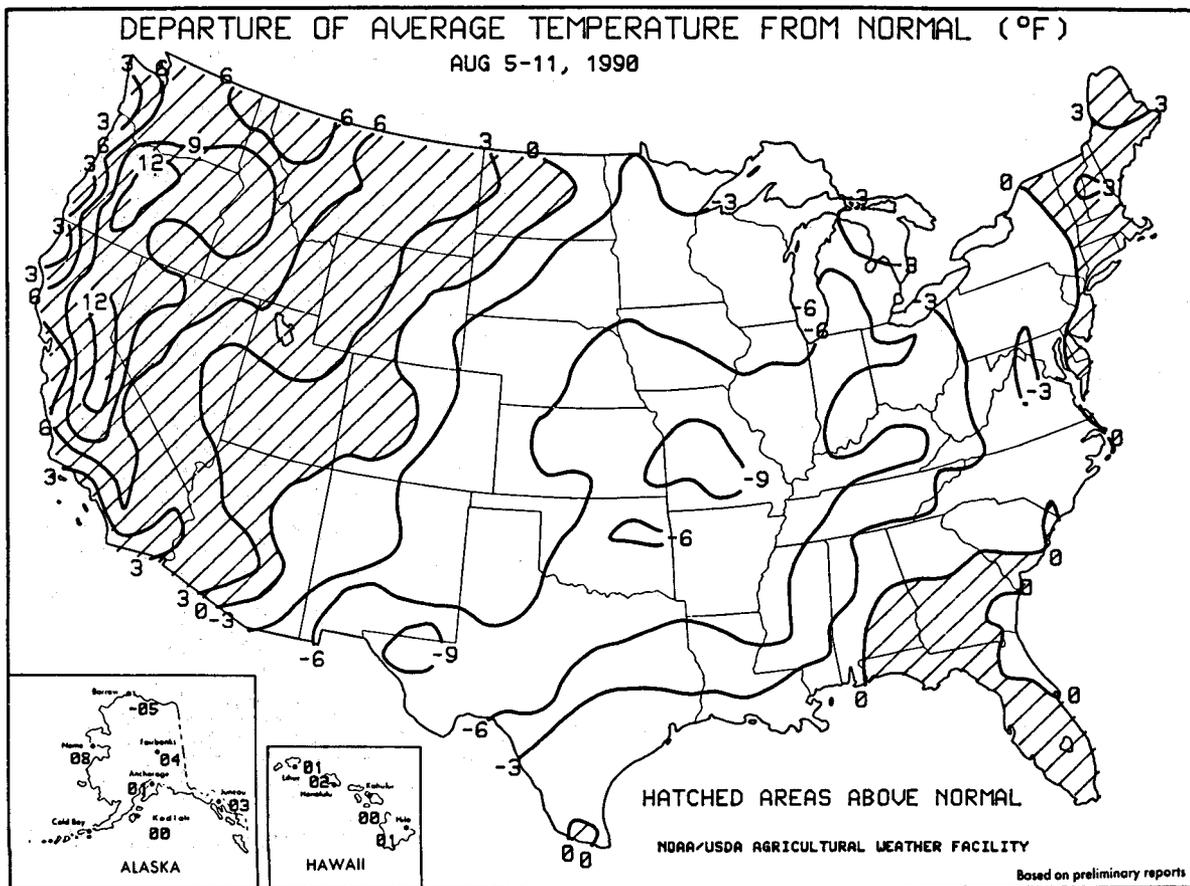
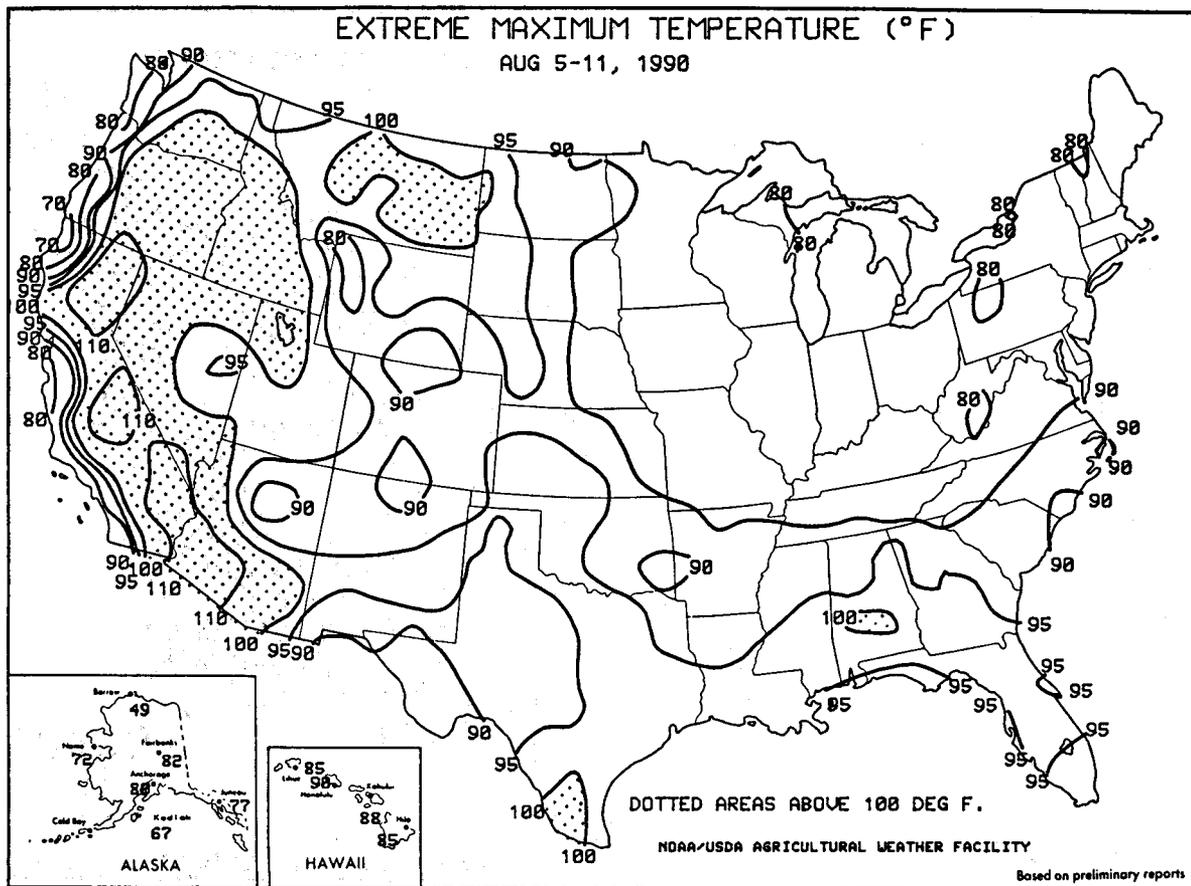
August 5 - 11, 1990

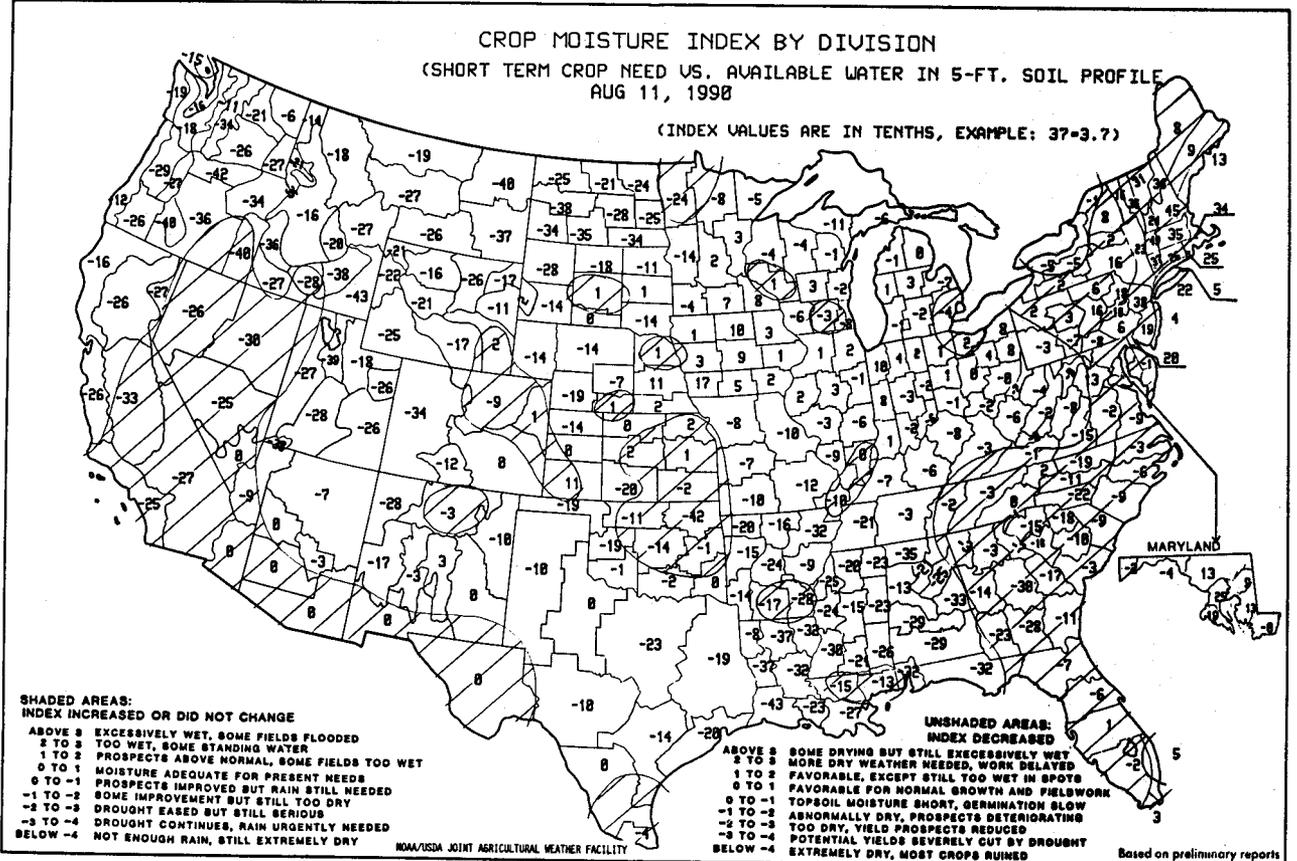
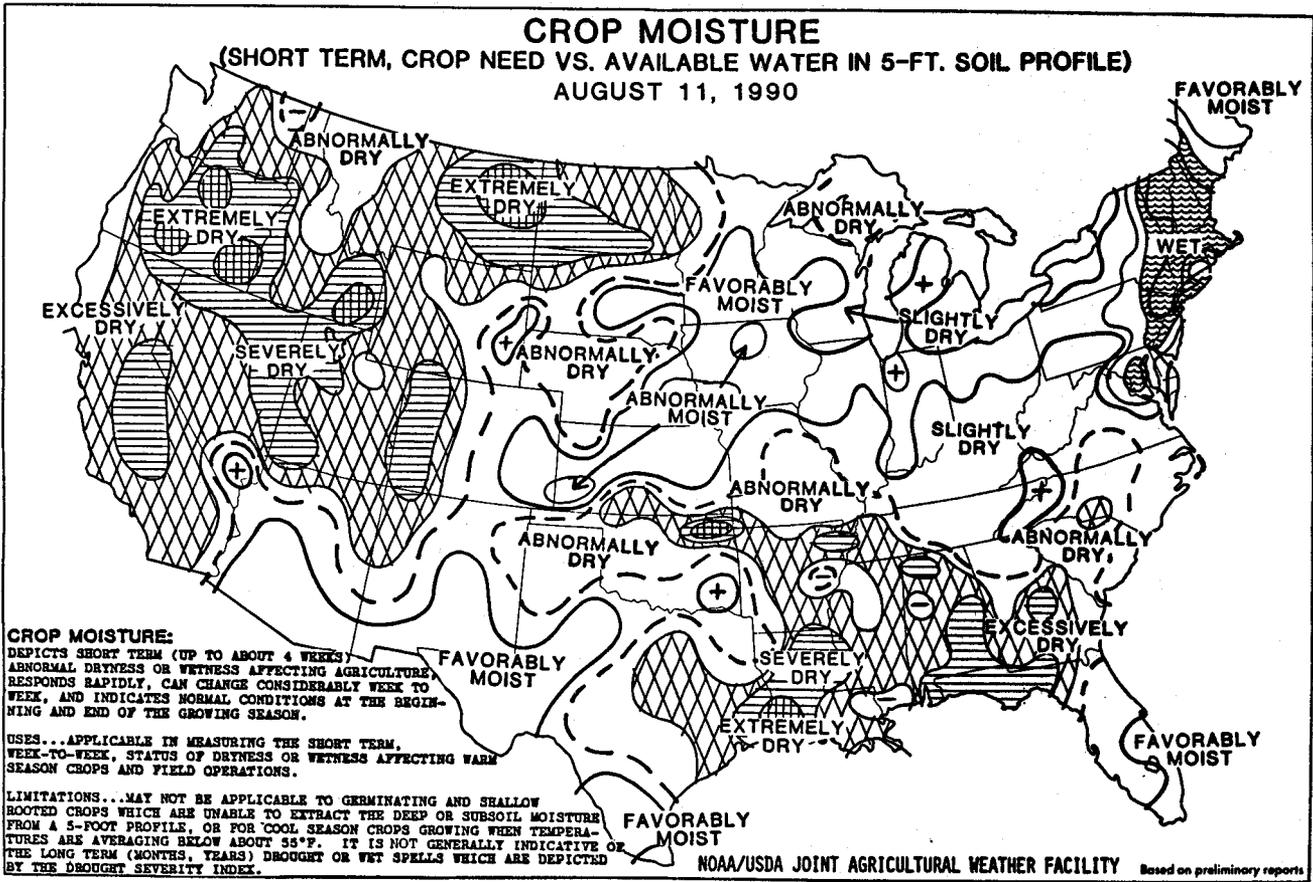
A stagnant weather pattern brought widespread showers and drenching rain to the **Atlantic seaboard** throughout the week. Steady rains soaked much of the **Northeast** and **middle Atlantic Coast States** with 4 to over 8 inches. Strong thunderstorms, at the start of the week, again caused locally heavy rain and flooding from the **central High Plains** to **southern Texas**. During the latter part of the week, widespread showers reached from the **northern Rockies** into the **Great Lakes** and **middle Mississippi Valley**. Scattered showers dotted the **West** through the week, while dry weather prevailed over the **eastern Corn Belt**. The **West** remained unseasonably hot as temperatures soared into triple digits in the interior portions of the **Pacific Coast States**. **Medford, OK** had 10 straight days
(Continued to p. 31)

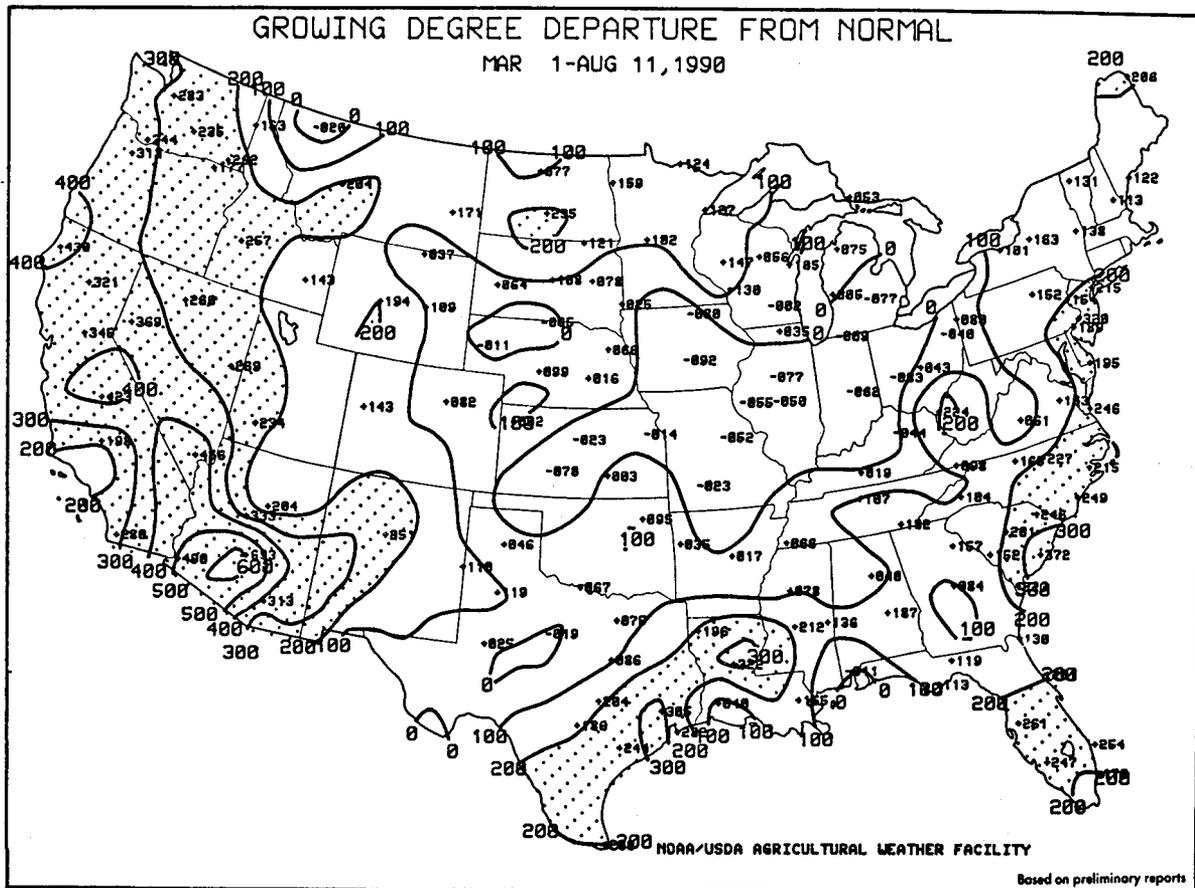
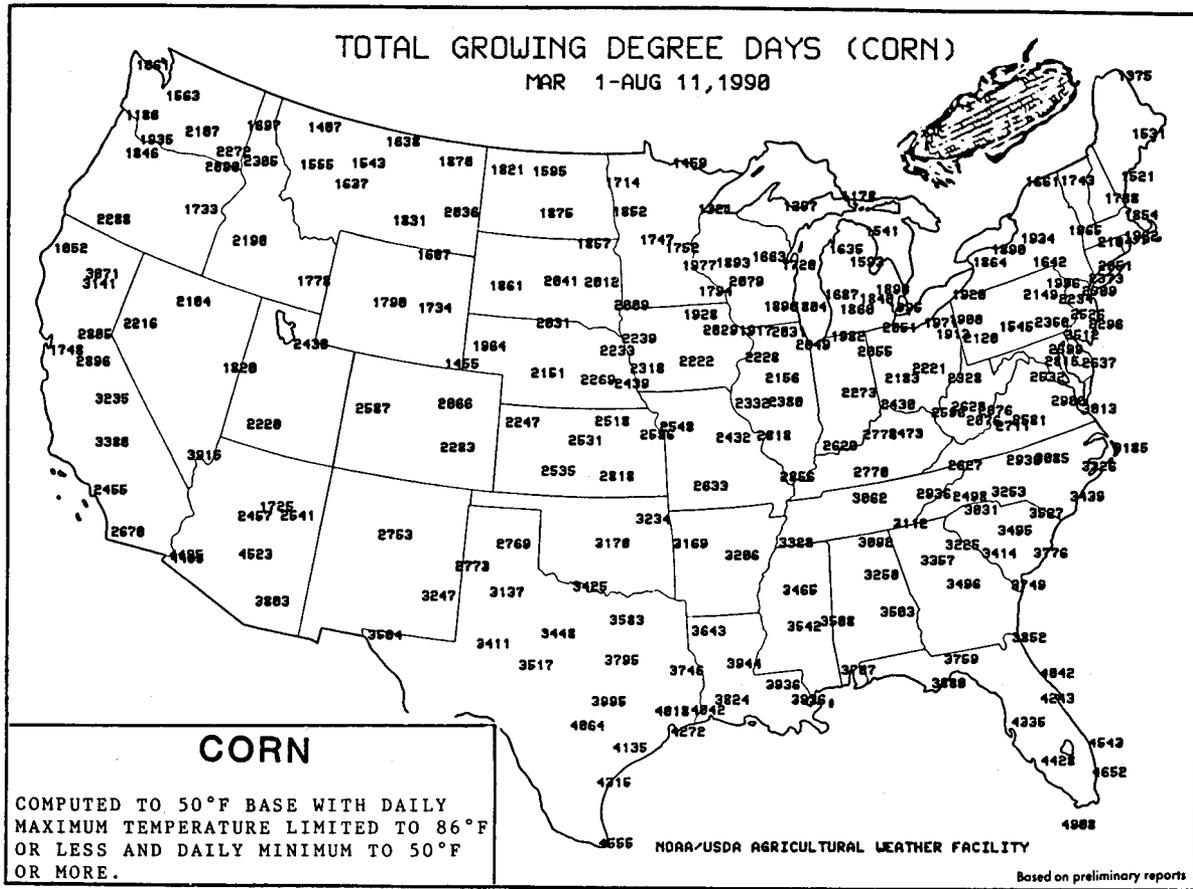
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National Weather Data for Selected Cities

Weather Data for the Week Ending August 11, 1990

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION								RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Jun 1	PCT. NORMAL SINCE Jun 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE		.50 INCH OR MORE	
																		90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	91	65	95	58	78	-3	T	-1.9	T	5.7	54	32.2	88	86	33	5	0	0	0	0	
MOBILE	92	69	96	64	80	-2	.4	-1.1	.4	5.4	36	44.1	105	92	40	6	0	2	0	0	
MONTGOMERY	97	69	101	62	83	1	0	-1.7	0	6.6	71	44.7	139	90	33	7	0	0	0	0	
AK ANCHORAGE	67	51	80	43	59	1	.6	.1	.5	2.4	64	6.8	94	93	53	0	0	3	0	0	
BARROW	39	30	49	27	35	-4	T	-2.2	T	1.7	113	2.2	91	99	82	0	7	0	0	0	
FAIRBANKS	73	52	82	47	63	4	.5	0	.4	7.4	196	9.2	154	90	43	0	0	3	0	0	
JUNEAU	64	52	77	51	58	3	2.2	1.2	.8	14.6	168	30.5	119	98	72	0	0	5	2	2	
KODIAK	59	51	67	49	55	0	3.7	2.7	1.3	17.1	185	43.4	132	98	78	0	0	5	5	3	
NOME	67	50	72	44	59	8	.4	-1.4	.4	6.2	139	11.4	154	90	59	0	0	1	0	0	
AZ PHOENIX	107	84	111	75	95	4	.4	.1	.4	1.8	145	4.0	107	50	20	7	0	2	0	0	
PRESCOTT	90	59	93	56	75	3	T	-1.9	T	6.9	138	11.6	105	64	20	5	0	0	0	0	
TUCSON	97	73	105	68	85	0	.1	-1.4	.1	6.3	179	8.5	140	70	28	6	0	1	0	0	
YUMA	110	87	112	83	98	5	T	-1.1	T	.7	259	1.2	103	49	21	7	0	1	0	0	
AR FORT SMITH	89	63	94	60	76	-6	T	-1.6	T	3.9	49	41.5	166	93	40	3	0	1	0	0	
LITTLE ROCK	86	65	92	58	75	-7	T	-1.6	T	3.4	40	38.7	123	78	46	2	0	1	0	0	
CA BAKERSFIELD	106	77	110	71	92	8	0	0	0	T	0	2.6	69	57	20	7	0	0	0	0	
EUREKA	62	52	65	50	57	0	T	-1.1	T	.5	75	20.7	92	97	81	0	0	0	0	0	
FRESNO	107	76	111	71	91	11	0	0	0	T	0	7.4	106	62	25	7	0	1	0	0	
LOS ANGELES	75	65	78	64	70	0	T	0	T	50	5.1	61	93	69	0	0	1	0	0	0	
REDDING	109	73	115	66	91	9	T	-1.1	T	1.3	116	20.3	82	52	12	7	0	0	0	0	
SACRAMENTO	107	66	109	58	87	11	0	0	0	T	0	11.5	108	69	15	7	0	0	0	0	
SAN DIEGO	78	69	80	67	74	3	T	0	T	.9	5	5.9	92	87	67	0	0	0	0	0	
SAN FRANCISCO	76	57	84	55	67	4	0	0	0	T	8	7.9	64	92	52	0	0	0	0	0	
CO DENVER	86	57	92	52	72	-2	.1	-1.3	.1	4.2	104	11.2	105	80	26	4	0	2	0	0	
GRAND JUNCTION	96	63	98	58	80	2	T	-2.2	T	1.2	104	4.2	94	36	11	7	0	0	0	0	
PUEBLO	89	53	96	50	71	-5	.3	-1.1	.3	5.6	151	11.9	163	89	27	5	0	1	0	0	
CT BRIDGEPORT	79	70	82	67	75	1	2.7	1.9	1.5	7.4	98	27.1	109	92	70	0	0	5	2	2	
HARTFORD	81	67	87	63	74	1	6.2	5.3	2.0	11.8	152	32.6	126	93	64	0	0	4	4	4	
DC WASHINGTON	82	69	87	66	75	-3	4.4	3.4	2.0	11.3	129	27.4	114	93	62	0	0	4	2	2	
FL APALACHICOLA	92	74	93	72	83	1	.1	-1.6	.1	13.2	92	26.5	83	94	54	7	0	1	0	0	
DAYTONA BEACH	91	71	95	68	81	0	2.3	.9	1.3	11.1	79	22.9	82	97	56	6	0	4	2	2	
JACKSONVILLE	93	70	97	69	82	0	1.1	-1.7	.5	10.6	71	19.6	61	96	51	6	0	4	1	1	
KEY WEST	92	79	94	77	86	1	1.4	.4	.7	8.9	88	17.6	89	88	56	7	0	4	2	2	
MIAMI	92	75	93	72	83	1	2.8	1.3	1.4	14.5	83	32.9	100	92	56	6	0	6	1	1	
ORLANDO	94	73	96	68	83	1	1.2	-1.3	.9	14.7	84	23.3	73	94	47	7	0	3	1	1	
TALLAHASSEE	95	70	97	66	83	1	1.4	-1.4	.8	10.2	57	29.4	69	99	43	7	0	3	1	1	
TAMPA	94	75	96	74	85	2	.3	-1.5	.3	15.6	101	25.7	88	93	53	7	0	2	0	0	
WEST PALM BEACH	92	74	94	70	83	1	2.7	1.5	2.3	21.2	134	35.2	107	95	57	7	0	5	1	1	
GA ATLANTA	87	67	93	61	77	-2	1.8	1.0	.9	8.0	85	42.6	129	96	50	1	0	4	1	1	
AUGUSTA	92	69	95	64	81	0	.5	-1.4	.2	4.9	51	15.3	52	99	51	7	0	4	0	0	
MACON	93	69	96	64	81	-1	.2	-1.7	.1	4.9	52	21.9	71	94	45	6	0	4	0	0	
SAVANNAH	91	71	94	69	81	0	.9	-1.7	.4	6.3	40	20.9	62	96	50	6	0	3	0	0	
HI HILO	84	70	85	68	77	1	1.1	-1.3	.4	22.2	120	89.6	116	94	64	0	0	6	0	0	
HONOLULU	90	75	90	71	82	2	T	-1.1	T	.6	48	10.5	76	78	43	4	0	1	0	0	
KABULUI	87	71	88	68	79	0	T	-1.1	T	1.4	189	15.3	128	96	61	0	0	1	0	0	
LIHOE	84	75	85	73	80	1	.1	-1.3	.1	2.0	46	20.8	83	74	58	0	0	1	0	0	
ID BOISE	102	66	109	60	84	10	T	-1.1	T	.5	42	9.1	125	43	16	7	0	0	0	0	
LEWISTON	101	69	107	66	85	11	0	-1.2	0	1.1	49	7.7	96	42	15	7	0	0	0	0	
POCATELLO	98	54	104	51	76	5	T	-1.1	T	.9	54	6.8	99	58	12	7	0	1	0	0	
IL CHICAGO	79	58	85	50	69	-4	.5	-1.2	.5	7.5	85	23.4	111	93	49	0	0	1	1	1	
MOLINE	82	57	86	51	69	-5	T	-1.9	T	13.5	127	35.0	144	92	41	0	0	0	0	0	
PEORIA	78	57	83	51	67	-7	T	-1.8	T	18.1	200	35.9	159	98	54	0	0	0	0	0	
QUINCY	79	58	84	51	69	-7	T	-1.9	T	11.5	117	28.4	119	95	50	0	0	0	0	0	
ROCKFORD	79	56	84	49	68	-5	.1	-1.7	.1	14.8	142	28.4	121	92	45	0	0	2	0	0	
SPRINGFIELD	80	56	85	50	68	-7	.1	-1.7	.1	15.4	186	35.3	160	96	48	0	0	1	0	0	
IN EVANSVILLE	83	60	87	52	71	-6	.2	-1.5	.2	6.5	75	33.6	121	95	47	0	0	1	0	0	
FORT WAYNE	78	55	82	49	66	-6	0	-1.8	0	11.6	141	31.7	142	97	48	0	0	0	0	0	
INDIANAPOLIS	80	56	85	51	68	-7	0	-1.8	0	8.1	84	29.0	114	99	52	0	0	0	0	0	
SOUTH BEND	76	55	81	49	66	-6	T	-1.9	T	10.9	122	29.3	114	99	52	0	0	0	0	0	
IA DES MOINES	80	58	83	54	69	-6	.3	-1.6	.3	18.8	213	34.7	172	90	47	0	0	3	0	0	
SIOUX CITY	80	56	86	49	68	-7	.1	-1.7	.1	7.5	88	19.4	111	93	46	0	0	1	0	0	
WATERLOO	79	54	84	47	67	-5	1.1	-1.2	1.0	18.7	181	31.9	145	98	47	0	0	3	1	1	
KS CONCORDIA	84	59	91	54	72	-7	.2	-1.6	.2	8.2	93	20.4	111	88	43	1	0	1	0	0	
DODGE CITY	88	59	98	51	74	-6	0	-1.6	0	4.2	60	17.2	119	81	28	3	0	1	0	0	
GOODLAND	85	55	94	48	70	-5	.4	-1.1	.4	6.4	110	14.1	121	88	32	3	0	1	0	0	
TOPEKA	82	59	88	50	70	-8	.7	-1.2	.7	11.2	107	24.0	110	95	51	0	0	1	1	1	
WICHITA	87	63	96	58	75	-6	.6	-1.1	.4	5.1	59	13.5	73	85	38	2	0	3	0	0	
KY BOWLING GREEN	82	61	88	55	72	-7	1.2	-1.5	.8	6.8	67	27.9	86	99	56	0	0	2	1	1	
LEXINGTON	80	59	86	50	69	-6	.3	-1.7	.2	11.5	107	28.8	94	97	54	0	0	2	0	0	
LOUISVILLE	84	63	88	56	73	-4	.2	-1.2	.2	8.5	96	37.0	130	91	46	0	0	1	0	0	
LA ALEXANDRIA	89	68	95	62	79	-4	.3	-1.7	.3	6.3	63	40.3	116	86	46	3	0	1	0	0	
BATON ROUGE	89	68	98	61	79	-3	1.1	-1.2	1.1	16.1	132	47.5	129	90	43	3	0	1	1	1	
LAKE CHARLES	92	68	98	61	80	-2	.2	-1.0	.1	7.5	67	34.2	108	97	42	5	0	2	0	0	
NEW ORLEANS	92	70	100	64	81	-1	.6	-1.8	.6	4.0	29	39.5	104	90	40	5	0	2	0	1	

Based on 1951-80 normals

Weather Data for the Week Ending August 11, 1990

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION								RELATIVE HUMIDITY PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Jun 1	PCT. NORMAL SINCE Jun 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	TEMP. °F		PRECIP.	
																		.01 INCH OR MORE	.50 INCH OR MORE		
SHREVEPORT	88	66	95	60	77	-6	1.6	1.1	1.3	8.5	107	45.1	158	92	44	3	0	2	1		
ME CARIBOU	77	62	88	58	70	6	1.1	1.1	1.1	10.0	117	22.2	106	99	68	0	0	4	1		
PORTLAND	75	65	83	63	70	7	1.7	1.1	1.3	9.1	133	26.6	105	100	80	0	0	5	1		
MD BALTIMORE	81	68	85	66	74	1	3.7	2.6	1.8	11.9	128	28.8	112	96	63	0	0	5	2		
SALISBURY	85	70	87	65	78	1	2.3	1.0	1.6	7.3	73	26.9	98	100	71	0	0	5	1		
MA BOSTON	78	69	86	68	74	0	3.7	2.9	2.8	8.5	124	30.0	116	98	72	0	0	6	2		
CHATHAM	75	63	78	62	69	1	1.1	1.1	1.1	7.2	102	30.8	113	97	81	0	0	1	0		
MI ALPENA	75	53	83	49	64	1	1.6	1.1	1.6	9.0	123	20.6	117	95	51	0	0	1	1		
DETROIT	80	58	85	52	69	1	1.1	1.1	1.1	6.9	90	22.1	113	91	46	0	0	1	0		
FLINT	79	54	85	48	67	1	1.1	1.1	1.1	5.8	80	17.0	94	95	47	0	0	0	0		
GRAND RAPIDS	77	53	82	48	67	1	1.1	1.1	1.1	7.5	97	20.6	102	96	52	0	0	1	0		
ROUGHTON LAKE	74	54	80	47	64	1	1.1	1.1	1.1	7.1	101	18.0	107	89	53	0	0	2	0		
LANSING	77	52	84	46	65	1	1.1	1.1	1.1	6.8	92	18.2	101	97	52	0	0	1	0		
MARQUETTE	69	48	82	38	59	1	1.3	1.4	1.1	5.5	68	17.7	79	96	57	0	0	5	0		
MUSKEGON	76	52	80	47	64	1	1.1	1.1	1.1	5.2	88	20.2	112	94	51	0	0	0	0		
SAULT ST. MARIE	69	50	78	46	60	1	1.1	1.1	1.1	7.6	103	19.6	106	98	65	0	0	3	0		
MN ALEXANDRIA	79	56	85	49	68	1	1.1	1.1	1.1	5.9	70	15.4	95	84	36	0	0	0	0		
DULUTH	75	49	81	44	62	1	1.1	1.1	1.1	7.7	82	17.3	94	97	46	0	0	0	0		
INT'L FALLS	77	50	87	43	64	1	1.1	1.1	1.1	10.4	122	15.4	101	94	41	0	0	1	0		
MINNEAPOLIS	79	57	85	52	68	1	1.1	1.1	1.1	16.1	181	27.8	160	89	41	0	0	0	0		
ROCHESTER	77	54	83	49	66	1	1.1	1.1	1.1	18.5	209	34.3	190	94	46	0	0	0	0		
MS GREENWOOD	88	63	92	57	76	1	1.1	1.1	1.1	7.8	87	34.6	98	91	41	2	0	0	0		
JACKSON	89	63	94	56	78	1	1.1	1.1	1.1	3.7	40	37.7	109	95	40	3	0	0	0		
MERIDIAN	93	62	99	56	78	1	1.1	1.1	1.1	7.3	72	49.8	138	94	35	5	0	0	0		
MO CAPE GIRARDEAU	81	60	86	55	71	1	1.1	1.1	1.1	4.8	57	34.5	120	95	48	0	0	0	0		
COLUMBIA	79	57	87	53	68	1	1.1	1.1	1.1	14.6	184	41.1	176	92	49	0	0	1	0		
KANSAS CITY	82	60	89	51	71	1	1.1	1.1	1.1	12.1	120	29.2	127	88	47	0	0	1	0		
SAINT LOUIS	82	63	87	57	73	1	1.1	1.1	1.1	6.9	83	27.2	121	84	43	0	0	0	0		
SPRINGFIELD	81	58	88	53	70	1	1.1	1.1	1.1	7.9	86	42.6	172	91	45	0	0	1	0		
MT BILLINGS	91	62	103	57	77	1	1.1	1.1	1.1	1.0	32	8.4	83	54	21	4	0	0	0		
GLASGOW	92	61	101	58	77	1	1.1	1.1	1.1	1.8	39	4.2	53	50	19	4	0	0	0		
GREAT FALLS	92	59	102	55	75	1	1.1	1.1	1.1	2.3	54	9.3	86	57	19	4	0	0	0		
HAVRE	92	58	102	53	75	1	1.1	1.1	1.1	1.5	39	4.7	56	58	19	4	0	0	0		
HELENA	92	58	103	54	75	1	1.1	1.1	1.1	1.4	40	4.9	61	59	20	4	0	2	0		
KALISPELL	89	53	95	46	71	1	1.1	1.1	1.1	3.5	98	13.6	137	86	25	4	0	0	0		
MILES CITY	91	64	103	60	78	1	1.1	1.1	1.1	2.7	57	6.9	67	61	23	4	0	0	0		
MISSOULA	91	56	99	52	73	1	1.1	1.1	1.1	2.3	78	9.1	107	72	24	5	0	1	1		
NE GRAND ISLAND	82	37	87	51	70	1	1.1	1.1	1.1	12.6	173	21.0	128	92	49	0	0	2	0		
LINCOLN	83	58	89	49	71	1	1.1	1.1	1.1	10.4	126	19.6	106	92	43	0	0	2	0		
NORFOLK	81	57	88	50	69	1	1.1	1.1	1.1	14.1	165	21.5	125	92	45	0	0	1	0		
NORTH PLATTE	86	57	96	48	72	1	1.1	1.1	1.1	5.5	73	12.8	88	92	35	3	0	3	2		
OMAHA	79	60	86	55	70	1	1.1	1.1	1.1	10.4	114	19.1	96	83	52	0	0	2	0		
SCOTTSBLUFF	83	55	94	50	69	1	1.1	1.1	1.1	5.2	98	13.8	124	90	39	2	0	4	0		
VALENTINE	86	56	93	47	71	1	1.1	1.1	1.1	6.7	106	14.2	113	67	29	2	0	2	1		
NV ELY	90	48	93	42	69	1	1.1	1.1	1.1	1.2	74	6.6	112	45	13	5	0	2	0		
LAS VEGAS	107	81	109	78	94	1	1.1	1.1	1.1	1.6	223	3.3	137	33	13	7	0	0	0		
RENO	98	59	103	57	79	1	1.1	1.1	1.1	1.0	158	4.2	90	57	13	7	0	1	0		
WINNEMUCA	101	59	105	53	80	1	1.1	1.1	1.1	.3	25	4.4	88	38	12	7	0	0	0		
NH CONCORD	80	65	86	61	73	1	2.7	2.0	1.2	7.1	100	22.2	105	99	65	0	0	5	2		
NJ ATLANTIC CITY	83	69	86	66	76	1	1.8	.7	1.0	7.0	82	22.5	88	99	66	0	0	5	1		
NM ALBUQUERQUE	88	62	94	56	75	1	1.1	1.1	1.1	3.3	139	6.5	146	68	23	4	0	1	0		
CLOVIS	86	60	95	56	73	1	1.1	1.1	1.1	2.2	35	5.9	55	85	25	4	0	1	0		
ROSWELL	88	61	98	54	75	1	1.1	1.1	1.1	1.3	38	3.7	65	84	30	4	0	1	0		
NY ALBANY	80	62	86	55	71	1	3.9	3.1	1.9	8.2	112	29.6	140	96	61	0	0	5	3		
BINGHAMTON	72	60	78	55	66	1	2.0	1.3	1.3	7.6	93	24.0	108	99	70	0	0	5	1		
BUFFALO	79	60	84	56	70	1	.5	1.1	1.1	7.2	101	28.6	134	92	49	0	0	1	0		
NEW YORK	82	71	84	70	77	1	6.0	5.0	2.5	10.9	131	32.3	126	94	62	0	0	5	4		
ROCHESTER	78	60	83	55	69	1	1.6	1.1	1.1	7.6	118	24.0	128	97	58	0	0	1	1		
SYRACUSE	78	62	83	57	70	1	.7	1.1	1.1	7.4	85	26.8	115	98	59	0	0	3	3		
NC ASHEVILLE	80	62	84	55	71	1	.5	1.1	1.1	8.4	93	32.7	118	99	56	0	0	3	1		
CHARLOTTE	87	68	90	64	78	1	.7	1.1	1.1	4.4	50	24.5	87	93	46	2	0	2	1		
GREENSBORO	84	66	91	62	75	1	1.1	1.1	1.1	2.6	27	22.8	85	96	53	1	0	3	1		
HATTERAS	86	72	88	63	79	1	1.4	1.1	1.1	7.4	63	32.3	102	91	60	0	0	2	1		
NEW BERN	85	71	91	68	78	1	3.5	2.1	1.6	7.7	55	31.4	95	95	64	1	0	4	4		
RALEIGH	84	68	90	64	76	1	.9	1.1	1.1	4.2	43	25.3	94	96	61	1	0	3	3		
WILMINGTON	85	71	89	68	78	1	5.1	3.6	3.5	15.3	98	35.3	104	96	66	0	0	3	3		
ND BISMARCK	87	55	95	46	71	1	0	1.1	1.1	6.3	111	9.3	85	79	25	3	0	0	0		
FARGO	82	52	92	42	67	1	1.1	1.1	1.1	7.3	99	12.7	96	85	32	1	0	1	0		
GRAND FORKS	80	52	94	43	66	1	.4	1.1	1.1	6.5	97	11.8	98	82	33	1	0	1	0		
WILLISTON	90	58	102	52	74	1	.1	1.1	1.1	3.3	65	6.8	71	68	22	4	0	1	0		
OH AKRON-CANTON	77	57	81	52	67	1	.1	1.1	1.1	15.5	183	36.3	156	98	57	0	0	2	0		
CINCINNATI	82	60	85	51	71	1	0	1.1	1.1	8.8	92	32.6	122	91	45	0	0	0	0		
CLEVELAND	76	58	83	52	67	1	1.6	1.1	1.1	9.8	122	28.4	128	97	57	0	0	2	1		
COLUMBUS	80	58	85	51	69	1	1.1	1.1	1.1	13.9	148	32.7	133	96	47	0	0	1	0		

Based on 1951-80 normals

Weather Data for the Week Ending August 11, 1990

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Jun 1	PCT. NORMAL SINCE Jun 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	PRECIP.	
																		.01 INCH OR MORE	.50 INCH OR MORE
DAYTON	79	58	84	53	69	-5	0	-7	0	13.1	158	36.2	157	92	49	0	0	0	0
TOLEDO	81	54	86	46	68	-4	T	-7	T	5.2	67	23.0	114	96	41	0	0	0	0
YOUNGSTOWN	79	55	83	47	67	-3	.1	-7	.1	11.1	126	26.7	113	100	56	0	0	2	0
OK OKLAHOMA CITY	87	66	92	62	76	-6	T	-5	T	5.8	76	27.6	136	85	43	2	0	0	0
TULSA	89	67	94	62	78	-5	.5	-5	.5	2.0	22	26.0	106	82	37	2	0	1	0
OR ASTORIA	70	55	73	48	62	2	T	-3	T	4.0	100	45.6	122	96	67	0	0	0	0
BURNS	96	56	102	51	76	7	0	0	.1	13	3.3	57	47	13	7	0	0	0	0
MEDFORD	105	63	106	58	84	11	T	-1	T	.3	27	8.5	80	66	14	7	0	0	0
PENDLETON	98	67	103	63	82	9	T	-1	T	.8	66	6.3	90	35	14	7	0	0	0
PORTLAND	92	62	101	58	77	9	0	0	0	2.3	103	20.9	103	82	29	4	0	0	0
SALEM	94	57	101	50	76	9	0	0	0	1.6	90	21.3	97	86	25	6	0	0	0
PA ALLENTOWN	79	65	84	60	72	-2	4.7	3.7	2.4	10.8	118	28.2	105	99	63	0	0	5	2
ERIE	76	61	81	56	69	-1	.7	-2	.5	6.1	70	24.6	109	97	63	0	0	3	0
HARRISBURG	79	65	86	61	72	-3	1.1	.4	.5	5.6	69	24.2	100	97	62	0	0	4	0
PHILADELPHIA	84	69	87	67	76	0	2.1	1.2	.8	8.1	88	25.4	99	99	62	0	0	5	3
PITTSBURGH	79	60	83	54	70	-2	.4	-3	.4	11.3	133	29.0	120	98	58	0	0	1	0
SCRANTON	75	62	82	59	69	-3	2.9	2.2	1.8	12.1	150	28.3	134	98	65	0	0	5	2
RI PROVIDENCE	81	69	84	67	75	3	2.3	1.4	1.2	7.0	97	28.2	106	99	70	0	0	4	2
SC CHARLESTON	89	73	92	72	81	0	3.1	1.6	2.0	12.8	79	28.7	84	99	59	4	0	3	2
COLUMBIA	91	70	94	66	80	-1	2.3	1.0	2.1	8.7	74	21.3	65	95	50	5	0	3	1
FLORENCE	89	71	96	67	80	0	.7	-.4	.6	3.3	28	12.9	44	96	52	3	0	2	1
GREENVILLE	87	66	91	60	77	-2	1.8	-.9	1.3	6.3	61	28.2	85	99	49	1	0	4	1
SD ABERDEEN	83	52	88	45	68	-5	0	0	0	9.7	153	14.3	111	88	34	0	0	0	0
HURON	84	54	90	46	69	-5	T	-5	T	9.8	156	20.0	150	86	37	1	0	0	0
RAPID CITY	87	58	101	54	72	-1	.7	-.4	.5	4.6	78	12.1	97	78	32	3	0	3	0
SIOUX FALLS	81	55	89	47	68	-5	.2	-.5	.2	6.9	93	14.8	93	87	39	0	0	1	0
TN CHATTANOOGA	87	66	92	62	76	-2	.8	-.1	.6	10.1	111	46.2	136	95	49	1	0	3	1
KNOXVILLE	84	65	88	61	74	-.4	.8	-.1	.5	11.4	121	37.2	119	96	52	0	0	2	1
MEMPHIS	87	66	92	60	76	-5	0	0	0	5.2	58	35.2	104	83	41	2	0	0	0
NASHVILLE	84	64	88	57	74	-5	T	-.8	T	9.3	107	24.4	77	89	46	0	0	0	0
TX ABILENE	87	67	95	62	77	-7	-.1	-.5	-.1	4.8	89	21.2	151	86	41	3	0	1	0
AMARILLO	88	61	95	56	74	-.4	0	0	0	4.3	59	11.7	90	78	28	4	0	0	0
AUSTIN	95	71	97	69	83	-.2	T	-.4	T	4.7	85	18.5	99	84	34	7	0	0	0
BEAUMONT	93	70	97	66	82	-.2	.3	-1.1	.3	11.7	92	47.2	142	91	42	7	0	1	0
BROWNSVILLE	94	74	97	73	84	0	1.4	-.9	1.1	4.4	90	10.6	90	95	48	7	0	3	1
CORPUS CHRISTI	94	74	98	73	84	0	.5	-.2	.5	3.2	44	15.2	93	91	46	7	0	1	0
DEL RIO	92	71	93	70	82	-.4	T	-.3	T	4.3	111	16.3	167	70	37	7	0	0	0
EL PASO	84	63	93	58	73	-.8	1.2	-.9	.9	5.2	201	6.4	156	92	45	3	0	2	1
FORT WORTH	90	68	97	65	79	-.7	.2	-.2	.2	6.6	129	35.8	184	88	46	3	0	1	0
GALVESTON	90	77	94	75	84	0	T	-.9	T	6.0	69	24.6	111	80	50	4	0	0	0
HOUSTON	95	70	99	66	83	-.1	T	-.8	T	7.8	84	29.9	110	87	35	7	0	0	0
LUBBOCK	87	63	95	57	75	-.3	.3	0	.3	3.5	60	9.5	84	86	33	3	0	1	0
MIDLAND	85	65	94	60	75	-.4	0	0	0	3.3	90	7.9	99	92	44	3	0	2	0
SAN ANGELO	87	65	93	59	76	-.8	-.2	-.1	.2	4.4	122	16.6	166	94	41	3	0	1	0
SAN ANTONIO	93	73	96	70	83	0	0	0	0	10.7	187	27.5	164	83	38	7	0	0	0
VICTORIA	95	74	97	73	84	0	0	0	0	14.4	180	26.1	127	92	41	7	0	0	0
WACO	95	68	101	61	81	-.5	.8	-.4	.6	2.6	52	22.4	117	91	37	6	0	2	1
WICHITA FALLS	90	67	97	59	79	-.7	1.3	-.9	1.3	7.0	128	31.2	190	90	40	4	0	2	1
UT CEDAR CITY	92	58	95	52	75	2	T	-.3	T	.8	39	6.2	99	39	12	5	0	1	0
SALT LAKE CITY	98	67	103	63	82	6	.2	0	.2	1.5	76	7.4	74	45	20	7	0	1	0
VT BURLINGTON	78	64	83	60	71	2	2.5	1.7	.8	10.7	128	24.1	122	98	60	0	0	5	3
VA NORFOLK	84	72	92	68	78	-1	4.2	2.9	1.2	11.7	111	28.8	103	96	67	1	0	5	4
RICHMOND	82	68	88	63	75	-3	5.5	4.3	4.0	13.2	125	30.6	114	94	64	0	0	6	2
ROANOKE	84	65	87	59	74	-.2	1.9	1.0	1.2	6.6	81	24.6	101	95	51	0	0	4	1
WA QUILLAYUTE	73	53	78	45	63	4	.1	-.5	.1	7.6	120	59.4	104	98	56	0	0	1	0
SEATTLE-TACOMA	85	58	94	55	63	7	0	-.2	0	3.6	149	24.0	119	84	36	2	0	0	0
SPOKANE	89	61	96	59	75	6	T	-.2	T	3.6	185	12.3	126	65	24	4	0	0	0
YAKIMA	97	58	102	50	78	8	0	-.1	0	.3	41	3.5	77	74	17	7	0	0	0
WV BECKLEY	75	58	79	49	67	-.3	2.1	1.2	1.0	8.8	87	25.5	92	97	60	0	0	3	2
CHARLESTON	81	61	85	53	71	-.4	.7	-.4	.4	9.0	88	25.3	91	88	55	0	0	3	0
HUNTINGTON	81	60	85	51	70	-.9	.9	0	.7	9.3	96	29.8	110	97	58	0	0	2	1
PARKERSBURG	80	59	83	51	70	-.5	.6	-.3	.4	9.2	99	27.9	111	99	57	0	0	2	0
WI GREEN BAY	74	53	81	46	64	-.5	T	-.7	T	13.9	186	23.7	136	94	51	0	0	2	0
LACROSSE	81	57	84	51	69	-.4	.1	-.7	.1	12.7	139	23.8	122	99	44	0	0	1	0
MADISON	79	54	82	45	66	-.5	2.0	1.1	1.7	9.7	108	23.7	121	96	44	0	0	2	1
MILWAUKEE	75	59	82	53	67	-.4	T	-.7	T	8.2	100	25.7	130	86	54	0	0	0	0
WAUSAU	76	54	80	47	65	-.4	T	-.9	T	11.1	119	21.2	107	95	45	0	0	1	0
WY CASPER	87	54	95	47	71	0	T	-.1	T	3.9	156	8.4	104	74	22	4	0	1	0
CHEYENNE	78	54	86	51	66	-.2	.6	-.2	.5	6.1	138	15.8	162	84	36	0	0	3	0
LANDER	90	58	98	54	74	4	.2	-.1	.2	2.5	112	6.5	70	58	18	4	0	1	0
SHERIDAN	90	53	98	47	72	1	.1	-.1	.1	3.1	88	9.7	92	72	22	4	0	1	0

Based on 1951-80 normals

National Weather Data for Selected Cities

Weather Data for the Week Ending July 28, 1990

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION								RELATIVE HUMIDITY PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Jun 1	PCT. NORMAL SINCE Jun 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	TEMP. °F		PRECIP.	
																		.01 INCH OR MORE	.50 INCH OR MORE		
AL BIRMINGHAM	90	69	92	64	79	-1	.5	-.7	.5	5.3	62	31.8	92	91	47	4	0				
MOBILE	93	72	94	69	82	0	.3	-1.5	.3	5.1	42	43.8	113	95	46						
MONTGOMERY	92	71	94	71	82	0	.3	-.8	.3	5.4	70	43.6	142	96	47	7	0				
AK ANCHORAGE	64	51	71	49	58	-1	.4	-.1	.2	2.1	73	6.4	102	82	58	0	0				
BARROW	41	34	49	30	37	-2	.4	-.2	.4	1.7	158	2.2	111	99	83	0	0				
FAIRBANKS	75	57	85	53	66	5	.8	.3	.6	6.0	206	7.8	153	81	44	0	0				
JUNEAU	68	52	81	50	60	4	1.4	-.4	1.4	10.1	152	26.0	110	88	54	0	0				
KODIAK	57	49	62	43	53	-2	1.4	-.6	.9	9.7	133	36.0	117	99	73	0	0				
NOME	67	54	71	49	61	9	1.1	-.5	.6	5.6	183	10.9	180	92	63	0	0				
AZ PHOENIX	104	81	108	72	93	0	.4	-.2	.4	1.1	141	3.3	101	92	63	2	0				
PRESCOTT	86	58	91	54	72	-1	.2	-.7	.1	6.4	192	11.0	118	70	22	7	0				
TUCSON	97	71	102	67	84	-2	1.5	-.9	1.1	5.9	246	8.1	163	79	27	6	0				
YUMA	107	82	110	77	95	1	0	-.1	0	.7	618	1.2	118	60	25	7	0				
AR FORT SMITH	90	69	99	65	79	0	1.0	.3	.7	2.3	35	39.9	169	97	48	5	0				
LITTLE ROCK	89	71	94	67	80	-3	.9	-.1	.5	2.7	39	38.0	127	91	56	4	0				
CA BAKERSFIELD	99	67	106	63	83	-2	0	0	0	0	0	2.6	69	63	19	7	0				
EUREKA	63	54	66	52	58	2	0	0	0	0	86	20.7	93	94	76	0	0				
FRESNO	98	65	104	60	81	0	0	0	0	.5	0	7.4	106	65	22	7	0				
LOS ANGELES	76	65	79	62	70	1	0	0	0	0	0	5.1	61	90	63	0	0				
REDDING	99	65	104	60	82	0	0	0	0	0	1.3	0	20.3	82	69	16	4	0			
SACRAMENTO	92	57	97	55	75	-2	0	0	0	0	0	11.5	108	85	28	0	0				
SAN DIEGO	77	66	78	65	72	1	0	0	0	0	0	5.9	92	86	63	0	0				
SAN FRANCISCO	70	56	75	54	63	0	0	0	0	0	8	7.9	64	90	57	1	0				
CO DENVER	84	55	92	49	70	-5	.4	0	.2	3.1	94	10.0	102	85	27	0	0				
GRAND JUNCTION	91	62	94	58	77	-3	.3	-.2	.2	1.2	146	4.2	82	69	16	5	0				
PUEBLO	88	56	95	53	72	-5	.3	-.1	.3	3.3	120	9.7	151	51	16	2	0				
CT BRIDGEPORT	81	70	86	68	76	1	.5	-.3	.5	4.5	75	24.1	104	93	68	0	0				
HARTFORD	86	68	89	66	77	3	.3	-.5	.1	5.6	92	26.4	109	97	54	0	0				
DC WASHINGTON	88	71	90	69	80	0	0	-.9	.1	6.8	100	22.9	104	87	51	3	0				
FL APALACHICOLA	94	75	97	72	85	3	.1	-1.6	.1	12.0	107	25.3	88	91	51	7	0				
DAYTONA BEACH	91	74	95	73	83	1	.9	-.4	.6	8.5	75	20.4	80	96	61	4	0				
JACKSONVILLE	93	74	97	71	84	1	1.1	-.4	.7	7.8	68	16.7	58	95	51	5	0				
KEY WEST	92	79	94	76	86	1	1.5	-.7	.9	4.9	60	13.7	76	84	57	7	0				
MIAMI	94	77	96	75	85	2	.4	-.9	.3	11.1	76	29.6	98	92	49	7	0				
ORLANDO	93	74	97	71	84	1	1.8	-.1	1.1	12.9	90	21.4	74	95	50	7	0				
TALLAHASSEE	94	71	96	66	82	1	.4	-1.6	.3	7.4	51	26.6	68	97	46	7	0				
TAMPA	92	75	95	73	83	1	2.2	-.4	.8	15.2	128	25.2	99	95	60	6	0				
WEST PALM BEACH	93	76	95	75	84	1	1.3	0	.7	16.8	125	30.9	101	95	57	7	0				
GA ATLANTA	87	71	89	68	79	0	.8	-.3	.8	4.4	58	39.0	125	91	57	0	0				
AUGUSTA	93	71	95	68	82	1	1.2	-.2	.9	3.4	43	13.7	50	96	48	7	0				
MACON	92	71	95	68	82	0	.3	-.7	.2	4.8	62	21.7	75	92	44	7	0				
SAVANNAH	95	75	99	73	85	3	.7	-1.0	.7	2.9	23	17.5	58	91	42	7	0				
HI HILLO	83	70	84	67	76	1	1.8	-.4	.9	18.7	136	86.1	119	96	67	0	0				
HONOLULU	88	75	89	74	81	1	.2	-.1	.2	.6	62	10.5	77	77	48	0	0				
KAHULUI	86	71	89	68	79	0	.2	-.1	.1	1.1	195	15.0	127	93	62	0	0				
LIHUE	84	75	85	72	79	1	.4	0	.2	1.6	48	20.4	85	77	57	0	0				
ID BOISE	88	59	99	49	73	-2	.3	-.2	.3	.5	46	9.1	127	65	21	4	0				
LEWISTON	86	63	101	59	75	-1	.1	0	.9	.9	46	7.5	97	58	27	4	0				
POCATELLO	86	51	92	47	69	-4	.1	0	0	0	61	6.8	102	73	19	3	0				
IL CHICAGO	82	63	87	58	73	-1	.2	-.5	.1	6.7	92	22.7	115	93	53	0	0				
MOLINE	84	63	87	56	73	-2	.3	-.8	.3	13.1	150	34.6	154	93	53	0	0				
PEORIA	81	63	84	58	72	-3	1.7	-.9	1.1	15.8	211	33.6	160	95	57	0	0				
QUINCY	84	64	90	58	74	-3	.4	-.5	.4	9.3	117	26.3	119	96	54	1	0				
ROCKFORD	82	62	86	56	72	-1	.3	-.7	.2	13.7	158	27.2	125	90	51	0	0				
SPRINGFIELD	84	65	89	59	75	-2	.5	-.8	.4	13.6	203	33.5	164	89	48	0	0				
IN EVANSVILLE	88	63	93	58	75	-3	.7	-.4	.5	4.1	58	31.3	120	98	46	3	0				
FORT WAYNE	80	59	86	53	70	-4	1.8	1.0	1.8	10.1	150	30.1	145	96	53	0	0				
INDIANAPOLIS	83	62	88	57	73	-3	.5	-.4	.5	6.9	87	27.8	117	94	52	0	0				
SOUTH BEND	80	60	85	56	70	-3	1.1	.3	1.1	9.9	137	28.3	131	94	50	0	0				
IA DES MOINES	81	64	87	56	73	-4	3.0	2.3	1.4	18.3	259	34.2	186	95	58	0	0				
SIOUX CITY	80	63	85	53	72	-5	1.3	.6	.5	7.4	105	19.3	120	96	62	0	0				
WATERLOO	80	62	86	54	71	-2	4.6	3.5	2.3	17.6	206	30.8	153	97	62	0	0				
KS CONCORDIA	88	65	94	61	76	-4	1.9	1.2	1.0	7.7	106	20.0	119	85	46	2	0				
DODGE CITY	87	64	94	57	76	-5	.8	-.1	.7	3.0	53	16.1	121	90	42	4	0				
GOODLAND	86	58	94	53	72	-4	1.4	-.9	.6	5.1	105	12.8	120	93	37	3	0				
TOPEKA	86	65	89	55	72	-4	.6	-.3	.6	8.6	98	21.4	107	93	54	0	0				
WICHITA	90	68	97	62	79	-3	.9	-.2	.8	3.3	45	11.6	68	90	41	4	0				
KY BOWLING GREEN	87	64	92	58	75	-3	.1	-.9	.1	4.2	49	25.3	82	98	48	2	0				
LEXINGTON	84	63	89	60	73	-3	1.2	-.1	1.2	10.8	123	28.1	98	93	51	0	0				
LOUISVILLE	88	66	93	63	77	-1	.3	-.6	.3	8.4	115	36.9	138	89	47	2	0				
LA ALEXANDRIA	93	74	95	72	84	1	.7	-.3	.7	4.9	61	38.9	119	88	51	7	0				
BATON ROUGE	94	73	96	72	83	1	.9	-.8	.8	13.5	142	44.9	132	95	47	7	0				
LAKE CHARLES	92	73	97	72	83	0	.5	-.8	.5	7.2	81	33.8	115	98	53	5	0				
NEW ORLEANS	93	74	96	70	84	1	.4	-1.2	.4	3.3	31	38.8	111	95	52	7	0				

Based on 1951-80 normals

Corrected table for Volume 77, No. 30, July 31, 1990.

Weather Data for the Week Ending July 28, 1990

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY PERCENT	NUMBER OF DAYS					
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Jun 1	PCT. NORMAL SINCE Jun 1	TOTAL, IN., SINCE Jan 1		PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMP. °F		PRECIP.
													90 AND ABOVE				32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
SHREVEPORT	93	73	96	71	83	-1	2.2	1.4	2.0	6.1	90	42.7	156	96	47	5	0	2	1
MR CARIBOU	77	59	87	50	68	3	3.6	2.6	1.5	8.8	130	21.0	110	96	60	0	0	4	3
PORTLAND	77	64	83	62	70	2	1.6	1.0	.7	7.3	131	24.8	103	100	76	0	0	4	1
MD BALTIMORE	87	70	89	66	78	1	T	-.9	T	8.2	114	25.1	106	89	49	0	0	1	0
SALISBURY	87	69	94	65	78	1	1.1	0	.4	4.8	64	24.4	98	99	57	2	0	4	0
MA BOSTON	77	65	88	63	71	-3	2.7	2.1	1.9	4.8	90	26.3	108	100	74	0	0	4	2
CHATHAM	71	63	74	61	67	-2	3.4	2.6	2.3	7.1	132	30.6	120	99	92	0	0	5	1
MT ALPENA	80	53	84	49	67	0	.6	-1	.6	7.0	119	18.7	116	97	47	0	0	1	1
DETROIT	82	61	88	56	71	-1	.5	-2	.5	6.2	100	21.4	118	90	42	0	0	1	0
FLINT	81	56	88	51	69	-2	.1	-5	.1	5.6	97	16.8	101	93	45	0	0	1	0
GRAND RAPIDS	80	58	86	53	69	-3	.3	-4	.3	5.0	78	18.0	96	97	50	0	0	1	0
HOUGHTON LAKE	80	54	84	50	67	0	.1	-6	.1	5.6	99	16.6	106	93	48	0	0	1	0
LANSING	81	54	86	50	68	-3	.5	0	.3	6.1	98	17.4	104	98	50	0	0	2	0
MARQUETTE	77	57	85	49	67	2	1	-6	.1	4.7	70	16.9	80	91	56	0	0	3	0
MUSKOGON	81	60	88	54	71	0	.3	-3	.3	4.3	92	19.3	115	93	49	0	0	1	0
SAULT ST. MARIE	81	53	85	46	67	3	T	-.7	T	5.8	98	17.9	105	97	47	0	0	1	0
MN ALEXANDRIA	77	60	86	53	69	-2	.1	-6	0	5.9	86	15.4	105	96	59	0	0	3	0
DULUTH	74	56	80	45	65	-1	1.1	-.2	.6	7.3	97	16.9	102	99	65	0	0	4	1
INT'L FALLS	80	56	87	47	68	1	.3	-.6	.3	7.5	106	12.5	90	96	51	0	0	1	0
MINNEAPOLIS	80	63	85	54	71	-2	2.8	2.0	2.4	14.9	206	26.6	169	95	58	0	0	5	2
ROCHESTER	77	61	82	52	69	-2	3.2	2.4	1.6	16.1	225	32.0	195	94	61	0	0	5	2
MS GREENWOOD	93	72	97	70	83	0	.1	-.9	.1	7.7	103	34.5	102	95	48	6	0	1	0
JACKSON	93	70	96	68	82	-1	.3	-.8	.3	3.0	41	37.0	113	100	48	6	0	1	0
MERIDIAN	93	69	96	65	81	-1	.7	-5	.6	7.0	84	49.5	145	98	47	7	0	2	1
MO CAPE GIRARDEAU	86	67	92	62	77	-3	.3	-5	.3	3.8	55	33.4	124	96	50	2	0	1	0
COLUMBIA	82	64	89	58	73	-6	.6	-1	.6	11.9	182	38.4	175	97	58	0	0	3	1
KANSAS CITY	85	67	89	57	76	-5	.9	0	.9	10.7	127	27.7	131	92	53	0	0	2	1
SAINT LOUIS	87	69	94	64	78	-1	.4	-.4	.4	6.4	91	26.7	126	80	41	2	0	1	0
SPRINGFIELD	86	67	94	57	76	-2	.2	-5	.1	7.7	96	42.4	181	91	51	2	0	2	0
MT BILLINGS	85	56	90	50	70	-3	T	-.1	T	1.0	37	8.4	86	78	22	2	0	1	0
GLASGOW	84	57	93	49	70	-1	.5	-.2	.5	1.8	44	4.2	57	73	29	2	0	1	1
GREAT FALLS	80	52	88	43	66	-5	.3	-.1	-.2	2.2	57	9.1	88	83	26	0	0	2	0
HAVRE	80	54	89	43	67	-4	.7	-.4	.5	1.5	45	4.7	60	79	34	0	0	3	1
HELENA	80	52	88	47	66	-3	.4	-.2	-.2	1.3	44	4.8	64	71	25	0	0	3	0
KALISPELL	78	53	93	46	66	0	1.0	-.8	.5	3.5	115	13.5	145	93	44	1	0	3	0
MILES CITY	87	61	95	56	74	-2	.4	-.1	.4	2.7	64	6.8	71	70	26	2	0	1	0
MISSOULA	78	50	89	47	64	-4	.6	-.5	.3	1.1	44	8.0	97	88	38	0	0	6	0
NE GRAND ISLAND	82	63	88	57	73	-4	1.8	1.2	1.3	11.9	193	20.3	133	91	55	0	0	3	1
LINCOLN	84	64	90	56	74	-4	5.4	4.7	5.4	9.8	145	19.0	112	92	54	1	0	1	1
NORFOLK	83	62	87	52	72	-4	2.5	1.8	1.9	12.8	176	20.2	127	96	53	0	0	4	2
NORTH PLATTE	87	59	92	46	73	-2	T	-.6	T	3.8	58	11.1	82	94	36	2	0	1	0
OMAHA	81	65	86	58	73	-5	2.8	2.0	2.0	9.8	133	18.4	102	88	60	0	0	5	1
SCOTTSDUFF	87	55	94	46	71	-4	T	-.4	T	3.4	72	12.1	113	92	27	4	0	1	0
VALENTINE	87	58	95	43	72	-3	.5	0	.5	3.6	70	11.1	97	71	30	4	0	1	1
NV RLY	88	46	91	40	67	-1	T	-.1	T	1.2	85	6.5	116	46	11	3	0	0	0
LAS VEGAS	104	77	108	70	90	-1	0	-.1	0	1.6	355	3.3	153	29	13	7	0	0	0
RENO	91	53	98	48	72	2	T	-.1	T	.9	165	4.1	89	62	13	4	0	0	0
WINNEMCCA	91	50	100	40	71	-2	0	0	0	.3	28	4.4	90	44	14	4	0	0	0
NH CONCORD	85	64	87	59	74	4	1.6	-.9	1.2	4.3	77	19.5	99	100	55	0	0	4	1
NJ ATLANTIC CITY	84	68	92	63	76	1	1.3	-.3	1.3	5.1	81	20.6	88	99	63	1	0	2	1
NM ALBUQUERQUE	89	63	94	61	76	-3	.1	-.2	.1	2.3	140	5.5	148	66	22	3	0	1	0
CLOVIS	86	63	92	60	74	-4	.5	-.2	.4	1.9	36	5.6	58	94	39	2	0	2	0
ROSWELL	91	66	98	63	79	-2	T	-.4	T	1.0	38	3.3	69	83	28	4	0	1	0
NY ALBANY	88	63	91	62	75	4	.3	-.4	.3	4.2	71	25.6	130	95	47	2	0	1	0
BINGHAMTON	80	60	84	55	70	0	.5	-.3	.3	5.3	79	21.7	105	98	54	0	0	2	0
BUFFALO	82	61	90	59	71	0	.5	-.3	.3	5.8	108	27.2	139	90	45	1	0	2	0
NEW YORK	83	72	87	71	78	0	.1	-.8	.1	4.6	72	26.0	109	92	61	0	0	1	0
ROCHESTER	81	59	88	57	70	-1	.4	-.2	.3	5.4	107	21.9	126	97	51	0	0	2	0
SYRACUSE	84	61	89	57	72	1	1.6	-.7	1.6	6.2	88	25.6	118	97	51	0	0	2	1
NC ASHEVILLE	82	62	86	57	72	0	.6	-.3	.5	7.0	98	31.3	121	100	58	0	0	3	0
CHARLOTTE	88	71	92	67	79	-1	.1	-.8	.1	3.2	45	23.3	89	85	45	3	0	1	0
GREENSBORO	88	67	92	64	78	0	T	-.1	T	1.5	19	21.7	87	90	44	2	0	0	0
BATTERAS	85	76	90	73	80	1	.3	-.2	.2	4.9	54	29.8	102	93	68	1	0	2	0
NEW BERN	91	73	96	71	82	2	.4	-.2	.4	4.1	37	27.8	92	93	48	5	0	1	0
RALEIGH	89	68	93	65	79	1	.1	-.9	.1	3.3	43	24.3	98	93	46	2	0	1	0
WILMINGTON	91	72	96	71	81	1	1.6	-.1	1.2	8.7	71	28.7	94	94	55	5	0	3	1
ND BISMARCK	87	58	93	47	73	2	.4	0	.3	6.3	129	9.3	92	90	32	2	0	2	0
FARGO	84	62	91	50	73	1	T	-.6	T	5.7	104	11.0	103	92	47	1	0	0	0
GRAND FORKS	84	59	88	50	72	2	0	-.6	T	5.7	104	11.0	103	94	42	0	0	0	0
WILLISTON	85	58	91	48	72	2	.8	-.4	.8	3.1	72	6.7	75	83	33	1	0	1	1
OH AKRON-CANTON	80	58	86	55	69	-3	3.4	2.5	3.3	12.9	189	33.8	156	97	50	0	0	2	1
CINCINNATI	84	63	89	60	73	-2	.2	-.7	.2	8.7	109	32.5	129	94	49	0	0	1	0
CLEVELAND	80	59	88	57	70	-3	1.2	.5	1.1	7.2	111	25.8	125	94	46	0	0	2	1
COLUMBUS	83	62	87	59	72	-2	1.0	-.1	1.0	12.8	168	31.6	138	94	47	0	0	1	1

Based on 1951-80 normals

Weather Data for the Week Ending July 28, 1990

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY PERCENT		NUMBER OF DAYS						
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Jun 1	PCT. NORMAL SINCE Jun 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	TEMP. °F		PRECIP.	
																		.01 INCH OR MORE	.50 INCH OR MORE		
DAYTON	82	61	88	60	71	-4	.3	-5	.2	11.8	172	34.9	161	94	50	0	0	0	0	0	0
TOLEDO	81	57	89	54	69	.8	.8	0	.8	5.0	78	22.8	122	96	47	0	0	0	0	0	0
YOUNGSTOWN	81	56	86	52	68	.8	1.5	0	1.5	9.0	127	24.6	112	99	49	0	0	0	0	0	0
OK OKLAHOMA CITY	88	70	95	63	79	.4	.4	0	.4	3.5	53	25.3	132	91	49	3	0	0	0	0	0
TULSA	89	72	98	65	81	.1	.1	0	1.3	17	25.4	109	85	45	4	0	0	0	0	0	0
OR ASTORIA	66	56	75	54	61	1	1	0	4.0	114	45.5	124	94	72	1	0	0	0	0	0	0
BURNS	81	54	93	42	66	T	T	0	.1	15	3.3	58	36	16	4	0	0	0	0	0	0
MEDFORD	93	58	101	52	75	2	0	0	0	31	8.5	81	70	18	5	0	0	0	0	0	0
PENDLETON	86	60	101	54	73	-2	.1	0	1	.7	76	6.3	92	48	22	2	0	0	0	0	0
PORTLAND	79	59	92	55	69	0	T	0	2.3	123	20.9	105	83	48	2	0	0	0	0	0	0
SALEM	81	54	95	50	68	0	T	0	1.6	103	21.3	98	87	38	1	0	0	0	0	0	0
PA ALLENTOWN	86	64	89	62	75	1	T	0	6.0	84	23.4	95	93	48	2	0	0	0	0	0	0
ERIE	79	62	85	59	70	0	.3	0	5.1	73	23.6	113	93	56	0	0	0	0	0	0	0
HARRISBURG	87	65	89	62	76	0	0	0	4.5	67	23.0	101	93	46	0	0	0	0	0	0	0
PHILADELPHIA	88	72	90	69	80	3	.1	0	5.6	76	22.9	97	94	53	2	0	0	0	0	0	0
PITTSBURGH	83	61	89	57	72	0	.4	0	10.6	154	28.3	126	94	50	0	0	0	0	0	0	0
SCRANTON	84	62	87	58	73	1	.2	0	9.1	140	25.3	130	93	47	0	0	0	0	0	0	0
RI PROVIDENCE	79	69	85	65	74	0	1.4	0	7	4.7	85	25.9	104	100	75	0	0	0	0	0	0
SC CHARLESTON	92	74	97	73	83	2	1.3	0	1.2	9.1	69	24.9	80	95	52	0	0	0	0	0	0
COLUMBIA	92	72	95	71	82	1	.5	0	.3	6.4	69	19.0	63	90	44	6	0	0	0	0	0
FLORENCE	94	73	96	71	83	2	.1	0	2.6	27	12.2	42	90	40	7	0	0	0	0	0	0
GREENVILLE	87	67	91	65	77	-2	.3	0	.3	4.5	54	26.4	84	94	51	2	0	0	0	0	0
SD ABERDEEN	84	58	88	48	71	-2	.9	0	.8	10.1	187	14.7	123	98	42	0	0	0	0	0	0
HURON	81	61	85	53	71	-3	1.1	0	1.1	9.7	182	19.9	161	94	58	0	0	0	0	0	0
RAPID CITY	87	56	99	49	72	-2	T	0	T	3.4	65	10.8	92	84	27	3	0	0	0	0	0
STOUK FALLS	80	62	86	51	71	-4	.1	0	.1	6.6	108	14.5	99	94	57	0	0	0	0	0	0
TN CHATTANOOGA	89	68	91	65	78	-1	.5	0	.5	8.0	108	44.1	137	98	44	4	0	0	0	0	0
KNOXVILLE	88	66	89	64	77	-1	.3	0	.3	9.3	118	35.0	118	95	44	0	0	0	0	0	0
MEMPHIS	91	71	96	67	81	-1	.6	0	.3	4.8	68	34.9	108	86	44	5	0	0	0	0	0
NASHVILLE	89	68	94	64	79	-1	1.2	0	1.1	7.4	105	22.6	75	91	44	3	0	0	0	0	0
TX ABILENE	88	70	93	65	79	-5	.4	0	.4	2.8	64	19.2	147	88	44	3	0	0	0	0	0
AMARILLO	87	63	92	58	75	-4	1.1	0	1.1	3.3	55	10.7	92	91	39	2	0	0	0	0	0
AUSTIN	93	75	96	73	84	-2	.7	0	.3	6	4.7	99	18.4	104	96	46	6	0	0	0	0
BEAUMONT	92	74	97	72	83	0	.6	0	.5	9.1	90	44.6	146	97	54	6	0	0	0	0	0
BROWNSVILLE	94	76	96	74	85	1	T	0	T	2.6	66	8.9	81	91	46	7	0	0	0	0	0
CORPUS CHRISTI	93	75	95	73	84	-1	.4	0	.4	2.6	66	14.6	97	96	49	7	0	0	0	0	0
DEL RIO	90	73	93	68	82	-5	1.1	0	1.0	3.9	44	15.9	174	78	45	5	0	0	0	0	0
EL PASO	91	66	95	65	78	-4	1.8	0	1.4	1.3	2.3	115	3.5	99	88	32	3	0	0	0	0
FORT WORTH	93	72	100	69	83	-4	1.1	0	.7	8	4.4	103	33.7	181	92	44	5	0	0	0	0
GALVESTON	90	80	93	78	85	1	T	0	T	7.1	102	25.7	126	83	56	3	0	0	0	0	0
HOUSTON	93	73	96	70	83	-1	2.4	0	1.6	2.1	7.7	101	29.8	116	94	46	6	0	0	0	0
LUBBOCK	85	65	93	58	75	-5	2.0	0	1.5	1.6	2.9	59	8.9	86	96	50	3	0	0	0	0
MIDLAND	88	69	95	64	79	-3	1.2	0	.8	1.1	1.7	56	6.2	86	91	44	4	0	0	0	0
SAN ANGELO	88	70	92	66	79	-5	1.6	0	1.3	1.1	4.0	136	16.2	173	90	45	3	0	0	0	0
SAN ANTONIO	93	76	96	75	85	0	T	0	T	9.3	196	26.1	166	88	44	7	0	0	0	0	0
VICTORIA	91	75	94	74	83	-1	.5	0	.5	14.4	209	26.0	134	97	55	6	0	0	0	0	0
WACO	98	74	102	72	86	-1	T	0	T	1.5	37	21.3	116	90	36	7	0	0	0	0	0
WICHITA FALLS	93	71	99	63	82	-4	1.0	0	1.0	4.5	97	28.7	184	87	41	5	0	0	0	0	0
UT CEDAR CITY	89	58	93	51	74	-1	T	0	T	.7	47	6.1	107	44	14	4	0	0	0	0	0
SALT LAKE CITY	89	61	96	55	75	-4	.5	0	.5	1.3	81	7.2	75	57	18	4	0	0	0	0	0
VT BURLINGTON	83	62	87	60	73	3	1.2	0	1.2	7.6	113	21.0	116	96	53	0	0	0	0	0	0
VA NORFOLK	87	74	96	72	80	1	.1	0	1.1	7.2	90	24.3	95	90	58	2	0	0	0	0	0
RICHMOND	88	69	95	66	79	0	.7	0	.6	7.5	92	25.0	102	91	49	2	0	0	0	0	0
ROANOKE	87	64	91	60	75	-1	0	0	0	4.4	68	22.4	99	94	46	1	0	0	0	0	0
WA QUILLAYUTE	65	54	78	50	59	-1	.1	0	.1	7.5	143	59.3	106	99	72	0	0	0	0	0	0
SEATTLE-TACOMA	73	57	87	55	65	T	T	0	T	3.6	181	24.0	121	92	57	0	0	0	0	0	0
SPOKANE	77	57	92	52	67	-1	1.6	0	1.1	3.6	217	12.3	130	87	45	1	0	0	0	0	0
YAKIMA	88	57	99	49	73	T	T	0	T	.3	47	3.5	79	71	28	3	0	0	0	0	0
WV BECKLEY	79	60	82	55	69	-1	0	0	0	6.3	76	23.0	89	96	56	0	0	0	0	0	0
CHARLESTON	84	64	89	62	74	1.3	1.3	0	1.3	7.8	96	24.1	93	100	53	0	0	0	0	0	0
HUNTINGTON	84	63	88	59	74	1.8	.7	0	1.7	7.9	102	28.4	113	98	53	0	0	0	0	0	0
PARKERSBURG	83	62	87	59	72	.9	0	0	.9	7.9	105	26.6	114	99	49	0	0	0	0	0	0
WI GREEN BAY	81	60	87	53	70	1	.9	0	.8	12.5	206	22.3	140	95	50	0	0	0	0	0	0
LACROSSE	82	64	88	55	73	0	2.1	0	1.2	12.0	159	23.0	129	97	51	0	0	0	0	0	0
MADISON	82	61	86	53	71	0	.1	0	.1	7.2	100	21.2	119	95	51	0	0	0	0	0	0
MILWAUKEE	80	65	86	60	73	1	.8	0	.6	7.9	116	25.3	139	90	54	0	0	0	0	0	0
WAUSAU	78	58	84	50	68	-2	1.9	0	1.7	10.0	134	20.1	112	97	53	0	0	0	0	0	0
WY CASPER	83	52	87	47	68	-4	.1	0	0	2.7	124	7.2	93	83	20	0	0	0	0	0	0
CHRYENNE	77	51	84	44	64	-5	.8	0	.4	2.3	115	14.0	154	86	35	0	0	0	0	0	0
LANDER	81	52	86	49	66	-5	.3	0	.2	2.2	104	6.1	67	78	29	0	0	0	0	0	0
SHERRIDAN	83	50	89	45	67	-4	.1	0	.1	2.9	93	9.5	94	87	26	0	0	0	0	0	0

Based on 1951-80 normals

National Agricultural Summary

August 6-12, 1990

HIGHLIGHTS: Rain fell over the Atlantic Coast States and central Great Plains, improving dryland crop prospects, particularly along the southern portion of the Atlantic Coast region. Temperatures were below normal over most of the eastern two-thirds of the country, leaving row crop development 2-3 weeks behind normal in many States. Soil moisture was mostly adequate in the Corn Belt but short in the Pacific Northwest, Dakotas, and Gulf Coast States. Small grain harvest continued in the northern Great Plains and Pacific Northwest. Row crops other than cotton continued to lag normal development, while fruit and vegetable harvests were active in many regions.

SMALL GRAINS: The winter wheat crop was 96 percent (%) harvested by August 12, 1 percentage point ahead of the 5-year average. Harvest advanced 36 points in Montana to 64% complete, equal to normal progress. Washington advanced 21 points, Idaho 15 points, and Oregon 19 points. Condition in the Pacific Northwest was good to fair, unchanged from the previous week.

Spring wheat harvest, at 46% complete, advanced 29 points from last week, but lagged the average by 3 points. North Dakota was 40% complete, 4 points behind normal, but advanced 26 points from last week. Montana advanced 19 points, Minnesota 52 points, South Dakota 33 points, and Idaho 10 points. Condition continued mostly good to fair.

CORN: Condition was mostly good, unchanged from last week but better than a year earlier. Corn silking reached 92% complete, 5 points behind normal. Twenty-nine percent of the acreage had reached the dough stage, 29 points behind the average. Corn dented was 6%, lagging normal by 17 points. In the Corn Belt, temperatures for the week again averaged below normal, delaying crop development. Illinois, Iowa, Nebraska, and Indiana lagged normal dough progress by 35 or more points. Iowa, Nebraska, Minnesota, South Dakota, and Wisconsin had not begun the denting stage. Normally, these five States range from 6 to 12 percent dented by this date.

SOYBEANS: Condition was good to fair, unchanged from the previous week, except along the southeast coast, where condition improved due to needed rainfall. Soybeans blooming reached 80%, 8 points behind normal. Half the acreage was setting pods, lagging the average by 19 points. The Illinois and Iowa crops were rated mostly good and had begun to set pods on 51 and 75%, respectively, of their soybean acreage. Illinois, Missouri, and Nebraska were 35 or more points behind normal pod-setting progress. Cooler-than-normal temperatures were common across the heart of the soybean-producing region, keeping rapid crop development in check. Rainfall across Georgia, South Carolina, North Carolina, and Virginia improved prospects for the 1990 crop.

COTTON: Cotton was good to fair with generally improved conditions in Georgia, Louisiana, North Carolina, South Carolina, and Texas. Ninety-two percent of the acreage was setting bolls, 3 points ahead of normal and 7 points advanced from the previous week. Essentially all of the acreage in Arkansas, California, Georgia, Missouri, and Tennessee was setting bolls. Open bolls were apparent on 8% of the acreage, 1 point behind normal. Harvest continued in central Texas and was winding down in the Coastal Bend and Rio Grande Valley. Condition was fair to good. In California, defoliation had begun in southern producing counties. Mississippi fields were being irrigated and sprayed for bollworms.

SORGHUM: Condition was slightly improved as the crop was rated mostly good to fair. Heading

progress advanced 14 points to 57% complete, 13 points behind normal. Slightly more than one-fourth of the acreage was turning color, 1 point behind normal coloring progress. Conditions were generally improved in Texas, Nebraska, Arkansas, and Colorado but slightly worse in South Dakota. Harvest continued in the Blacklands and Upper Coast of Texas and was winding down in the central growing area. In Nebraska, pest problems continued in eastern fields. The southern third of the State was in poor condition.

OTHER FIELD CROPS: Rice was mostly good to fair with 54% of the acreage headed, 13 points behind normal. Rice harvesting activity increased in Louisiana and Texas. Peanuts were in mostly good condition in North Carolina, Virginia, and Texas and were mostly fair in Alabama and Georgia. Tobacco was mostly good to fair in North Carolina, Tennessee, and Georgia, excellent to good in Virginia, and fair to good in Kentucky. Harvest was underway in the major producing States.

FRUIT AND NUTS: Florida's citrus, trees and fruit were in very good to excellent condition with adequate moisture. There was new growth on trees of all ages. Some blocks of early bloom grapefruit had sizes passing maturity. Some red grapefruit were picked and others were ready for packing. In Georgia, pecans were in mostly fair condition but were declining because of dry conditions. Texas pecans continued to fill. Recent rains slowed the drop and was beneficial for filling. Aphid problems continued to increase in many groves. In New York, harvest of Jersey McIntosh apples was in full swing in the Lake Ontario region. Red Haven peach harvest was at peak with good size and quantity. Hot, humid weather increased disease pressure on fruit. The harvest of California apples, nectarines, peaches, and plums continued. Dates in the southern desert were not adversely affected by isolated thunderstorms; however, a few bags were lost to high winds. Table grape picking of flame seedless, Thompson seedless, and Zante Current remained active. Lemon, Valencia orange, and grapefruit harvest continued with very low volumes. Pear harvest was active with nearly two-thirds of the crop picked and harvest began in Washington. French prunes were harvested and packed.

VEGETABLES: High temperatures and scattered rain continued over the Florida vegetable-producing areas. Early planted crops in the northern areas progressed well. Plantings in the central areas were gaining momentum, while land preparation and limited plantings were the activities in the southern areas. In the Texas Rio Grande Valley, peppers progressed well and land preparation continued. In the San Antonio-Winter Garden area, land preparation and planting resumed as fields dried out. Early sweetpotatoes were being harvested in east Texas, and later planted fields needed rain. The watermelon harvest continued. The High Plains' onion, potato, and cucumber harvest continued. Isolated heavy rains in the Trans-Pecos area damaged peppers and cantaloupes and slowed the harvest. In California, broccoli supplies were light in the Salinas area and moderate in the Santa Maria area. Cauliflower was in moderate supply with variable quality. Celery was in heavy supply with generally good quality. Iceberg head lettuce was in moderate supply with variable quality. Transplanting of broccoli, cauliflower, and head lettuce began on the west-side. Vegetable harvesting was in full swing in Oregon's Willamette Valley as harvest of snap beans continued, early sweet corn was underway, and the first onions were pulled. In the Hermiston-Boardman area, potato harvest continued with good sizes. Tomato, cantaloupe, and green pepper packing was in full swing. Potatoes were flowering and the garlic harvest began in the central areas.

(Continued to p. 31)

Crop Progress

FOR WEEK ENDING AUGUST 12, 1990

	CORN % SILKING		
	1990	1989	AVG.
CO	80	86	93
GA	100	100	100
IL	92	100	100
IN	91	94	98
IA	98	100	100
KS	99	96	98
KY	94	100	98
MI	85	95	95
MN	92	96	97
MO	81	100	100
NE	99	99	100
NC	100	99	99
OH	88	80	94
PA	70	51	79
SD	84	89	84
TX	100	100	100
WI	86	87	90
17 STATES	92	95	97

THESE 17 STATES PRODUCED 95% OF THE 1989 CORN CROP.

	CORN % DOUGH		
	1990	1989	AVG.
CO	22	18	42
GA	99	99	100
IL	43	75	81
IN	30	50	67
IA	15	33	52
KS	70	60	70
KY	39	55	66
MI	0	5	25
MN	19	29	38
MO	49	80	86
NE	25	52	60
NC	82	83	86
OH	30	24	64
PA	16	8	27
SD	20	33	29
TX	89	91	91
WI	13	21	36
17 STATES	29	46	58

THESE 17 STATES PRODUCED 95% OF THE 1989 CORN CROP.

	CORN % DENT		
	1990	1989	AVG.
CO	0	0	7
GA	97	90	96
IL	3	17	37
IN	2	9	18
IA	0	8	21
KS	20	25	25
KY	16	20	34
MI	0	0	3
MN	0	3	11
MO	19	40	56
NE	0	8	13
NC	74	45	64
OH	3	4	18
PA	2	0	4
SD	0	5	6
TX	84	72	71
WI	0	4	6
17 STATES	6	13	23

THESE 17 STATES PRODUCED 95% OF THE 1989 CORN CROP.

	GRAIN SORGHUM % HEADED		
	1990	1989	AVG.
AR	70	89	NA
CO	34	35	54
IL	15	78	NA
KS	40	30	55
LA	92	91	94
MS	90	83	93
MO	42	84	84
NE	50	65	80
NM	70	NA	NA
OK	40	75	60
SD	49	56	58
TX	88	77	83
12 STATES	58	NA	NA

EXCL. STATES WITH NA 57 57 70
THESE 12 STATES PRODUCED 98% OF THE 1989 GRAIN SORGHUM CROP.

NA - NOT AVAILABLE.

	GRAIN SORGHUM % COLORING		
	1990	1989	AVG.
AR	15	35	NA
CO	8	0	3
IL	0	14	NA
KS	10	3	5
LA	70	55	65
MS	45	47	57
MO	8	35	37
NE	0	9	8
NM	5	NA	NA
OK	10	25	25
SD	3	14	18
TX	67	64	64
12 STATES	25	NA	NA

EXCL. STATES WITH NA 26 26 27
THESE 12 STATES PRODUCED 98% OF THE 1989 GRAIN SORGHUM CROP.

NA - NOT AVAILABLE.

	SOYBEANS % BLOOM		
	1990	1989	AVG.
AL	72	60	70
AR	44	50	47
GA	75	84	86
IL	83	100	99
IN	89	92	96
IA	95	100	100
KS	75	75	85
KY	68	67	74
LA	85	78	80
MI	90	85	90
MN	96	98	99
MS	70	55	67
MO	58	85	87
NE	90	100	100
NC	55	42	48
OH	82	76	90
SC	60	50	59
SD	89	94	89
TN	58	60	70
19 STATES	80	85	88

THESE 19 STATES PRODUCED 95% OF THE 1989 SOYBEANS CROP.

	SOYBEANS % SETTING PODS		
	1990	1989	AVG.
AL	40	35	42
AR	11	26	32
GA	47	49	51
IL	51	90	90
IN	41	50	65
IA	75	94	92
KS	40	45	60
KY	20	30	35
LA	64	47	54
MI	35	40	50
MN	76	90	86
MS	47	31	36
MO	31	61	67
NE	35	69	80
NC	27	19	19
OH	72	32	77
SC	22	20	24
SD	59	72	65
TN	28	28	40
19 STATES	50	62	69

THESE 19 STATES PRODUCED 95% OF THE 1989 SOYBEANS CROP.

	SPRING WHEAT % HARVESTED		
	1990	1989	AVG.
ID	24	16	25
MN	71	77	72
MT	26	19	28
ND	40	59	44
SD	78	92	80
5 STATES	46	56	49

THESE 5 STATES PRODUCED 89% OF THE 1989 SPRING WHEAT CROP.

	WINTER WHEAT % HARVESTED		
	1990	1989	AVG.
AR	100	100	100
CA	99	99	99
CO	98	98	98
GA	100	100	100
ID	48	31	42
IL	100	100	100
IN	100	100	100
KS	100	100	100
MI	99	100	99
MO	100	100	100
MT	64	46	64
NE	100	100	100
NC	100	100	100
OH	100	100	100
OK	100	100	100
OR	85	68	79
SD	100	100	98
TX	100	100	100
WA	73	69	67
19 STATES	96	94	95

THESE 19 STATES PRODUCED 88% OF THE 1989 WINTER WHEAT CROP.

COTTON
% SETTING BOLLS

	1990	1989	AVG.
AL	98	93	98
AZ	100	100	99
AR	100	95	99
CA	100	98	98
GA	100	97	99
LA	99	91	97
MS	97	87	97
MO	100	100	100
NM	90	95	94
NC	92	77	87
OK	75	55	65
SC	94	86	89
TN	100	100	100
TX	85	73	81

14 STATES 92 83 89

THESE 14 STATES PRODUCED 99% OF THE 1989 COTTON CROP.

COTTON
% BOLLS OPENING

	1990	1989	AVG.
AL	4	9	7
AZ	35	30	23
AR	0	0	6
CA	3	2	6
GA	10	6	9
LA	8	0	11
MS	4	0	4
MO	0	0	3
NM	5	10	4
NC	0	0	0
OK	1	0	0
SC	2	5	4
TN	5	4	3
TX	11	12	11

14 STATES 8 8 9

THESE 14 STATES PRODUCED 99% OF THE 1989 COTTON CROP.

RICE
% HEADED

	1990	1989	AVG.
AR	31	50	63
CA	40	30	28
LA	80	82	86
MS	76	66	78
TX	98	100	96

5 STATES 54 61 67

THESE 5 STATES PRODUCED 97% OF THE 1989 RICE CROP.

Crop Condition

FOR WEEK ENDING AUGUST 12, 1990

CORN

STATE	VP	P	F	G	EX
CO	0	3	16	67	14
GA	9	35	34	22	0
IL	0	2	6	74	18
IN	0	3	18	64	15
IA	0	0	9	71	20
KS	0	3	30	33	34
KY	3	7	47	42	1
MI	0	4	16	50	30
MN	1	10	33	48	8
MO	0	0	38	59	3
NE	0	2	14	64	20
NC	8	32	47	13	0
OH	3	9	29	48	11
PA	1	5	19	45	30
SD	0	6	34	50	10
TX	5	11	38	40	6
WI	1	1	14	80	4
17 STATE	1	4	19	61	15
PREV WEEK	1	3	20	60	16
PREV YEAR	3	8	26	51	12

SPRING WHEAT

STATE	VP	P	F	G	EX
ID	4	7	33	50	6
MN	2	4	33	53	8
MT	8	21	39	26	6
ND	0	0	31	58	11
SD	1	19	25	33	22
5 STATE	2	8	32	47	11
PREV WEEK	3	7	30	53	7
PREV YEAR	8	12	52	24	4

COTTON

STATE	VP	P	F	G	EX
AL	0	4	31	65	0
AZ	0	0	14	86	0
AR	0	0	29	71	0
CA	0	0	10	85	5
GA	16	24	48	12	0
LA	0	0	56	44	0
MS	1	6	12	68	13
MO	0	0	55	45	0
NM	0	14	29	57	0
NC	0	2	33	58	7
OK	0	0	55	35	10
SC	0	44	47	9	0
TN	3	11	25	58	3
TX	0	8	45	41	6
14 STATE	1	6	36	52	5
PREV WEEK	0	6	40	49	5
PREV YEAR	0	10	48	39	3

SORGHUM

STATE	VP	P	F	G	EX
AR	3	5	79	13	0
CO	0	5	17	61	17
IL	0	6	34	50	10
KS	0	9	28	50	13
LA	0	5	57	38	0
MS	0	9	39	41	11
MO	0	3	57	39	1
NE	1	10	19	60	10
NM	5	6	45	44	0
OK	0	2	33	65	0
SD	1	18	10	62	9
TX	1	14	49	32	4
12 STATE	1	10	35	46	8
PREV WEEK	1	9	41	41	8
PREV YEAR	7	16	22	45	10

RICE

STATE	VP	P	F	G	EX
AR	0	2	45	53	0
CA	0	0	15	75	10
LA	0	0	15	80	5
MS	0	0	31	52	17
TX	0	1	36	54	9
5 STATE	0	1	32	62	5
PREV WEEK	0	1	33	61	5
PREV YEAR	0	1	30	62	7

SOYBEANS

STATE	VP	P	F	G	EX
AL	0	6	35	59	0
AR	6	16	58	20	0
GA	8	14	62	16	0
IL	0	1	26	66	7
IN	0	4	35	57	4
IA	0	3	23	64	10
KS	0	9	34	38	19
KY	0	15	43	42	0
LA	0	0	41	47	12
MI	0	5	15	50	30
MN	2	5	45	40	8
MS	1	6	52	31	10
MO	0	5	54	40	1
NE	0	1	19	66	14
NC	0	9	51	40	0
OH	4	10	33	43	10
SC	2	20	49	29	0
SD	2	3	33	54	8
TN	0	2	43	49	6
19 STATE	1	5	37	50	7
PREV WEEK	1	6	37	49	7
PREV YEAR	3	10	34	46	7

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: No rainfall most areas; 0.50 to 1.00 in. isolated areas extreme east. Temperatures 2 to 4° below normal.

Days suitable for fieldwork 6.5. Soil moisture 31% very short, 63% short, 6% adequate. Continued dry conditions stressed crops, pastures. Corn 92% dented, 87% 1989, 94% avg.; 63% mature, 65% 1989, 75% avg.; 32% harvested, 37% 1989, 36% avg.; 15% poor, 45% fair, 28% good, 12% excellent. Sorghum 13% harvested, 16% 1989, 12% avg; 55% fair, 45% good. Cotton 98% setting bolls, 93% 1989, 98% avg.; 4% bolls opened, 9% 1989, 7% avg.; 4% poor, 31% fair, 65% good. Soybeans 72% blooming, 60% 1989, 70% avg.; 40% setting pods, 35% 1989, 42% avg.; few fields turning yellow; 6% poor, 35% fair, 59% good. Peanuts 30% poor, 48% fair, 22% good. Pastures 32% poor, 52% fair, 16% good. Livestock 50% fair, 50% good. Primary activities: Controlling insects in row crops; applying fungicides to peanuts; irrigating crops; repairing equipment, fences; harvesting hay, corn, sorghum, vegetables; routine care of livestock, poultry, catfish.

ALASKA: Higher than normal temperatures with rain occurring in differing amounts. Highs normal at PMC Butte to 9° above normal at Big Delta. Lows 1° colder than normal at Kenny Lake to 6° above normal in the Tanana Valley. Seasonal precipitation 3.13 in. drier than normal at Clearwater to 2.93 in. wetter than normal at Fairbanks.

Days suitable for fieldwork 5.0. Topsoil 80% short, 20% adequate. Subsoil 74% short, 26% adequate. Oats 70% turning or earlier, 30% ripe. Barley 10% turning color; 70% ripe; 20% swathed. Barley harvest in the Tanana Valley, earliest on record. Commercial vegetable harvest continues.

ARIZONA: Scattered thunderstorms increased in intensity by 6th west, central; decreasing monsoon activity 7th, 8th; storms increased 9th mostly central mountains, northwest, extreme south; activity widely scattered 10th, spreading south, central 11th; precipitation from none east central to 1.21 in. extreme southeast. Temperatures 4° below to 5° above normal. Extremes 74°; 114° deserts, 42°; 93° mountains.

Cotton 86% good, 14% fair; 35% bolls opening, 30% 1989, 23% avg.; controls applied for heliothis, lygus, spider mites, white fly all counties, infestations heaviest central; weeds mostly light. Alfalfa hay harvest mostly active; rain damage mostly light; scattering cut crop moderate to severe; curing conditions bad; crop 87% good, 13% excellent. Sudan harvest was active in Yuma County. Corn for grain good; silage harvest winding down central. Mixed melon harvests continued central; apple harvest underway southeast.

ARKANSAS: Temperatures unseasonably cool first half of week, slightly above normal second half. Scattered thunderstorms first part, heaviest rainfall southeast. Extremes 50°; 98°. Rainfall none to 1.16 in.

Days suitable for fieldwork 7.0. Soil moisture 85% short, 15% adequate. Main activities: Irrigating corn, cotton, sorghum, soybeans; applying fertilizer, fungicides, insecticides; cultivating row crops; scouting for insects, diseases; cutting, baling hay; bush hogging pastures. Corn 1% poor, 30% fair, 69% good. Soybeans 44% blooming, 50% 1989, 47% avg.; 6% very

poor, 16% poor, 58% fair, 20% good. Sorghum 70% headed, 89% 1989, 89% 4 year avg.; 3% very poor, 5% poor, 79% fair, 13% good. Cotton fruiting well on irrigated acres. Sheath blight, blast continued to plague many rice acres. Few rice fields drained in preparation for harvest. Peach harvest continued, quality good. Watermelons small, yields low. Dry conditions hampering pasture, meadow growth. Pasture 6% very poor, 50% poor, 35% fair, 9% good. Livestock good.

CALIFORNIA: Much above normal temperatures continued through the week. Isolated light shower activity was a result of widespread thunderstorms that produced much lightning activity on the Sierra, coastal ranges.

Generally open weather, except few thunder showers, permitted good progress field activities. Few southern cotton fields bottom defoliated, reduce humidity related problems. Safflower, sugarbeet harvests continued. Sunflower for seed, alfalfa seed harvest progressed. corn silage harvest underway. Alfalfa, other hay harvest normal. Irrigation, fertilization, pest control normal. Harvest continued, apples, nectarines, peaches, plums. Dates, southern desert, not adversely affected by isolated thunderstorms (few bags lost, high winds). Fig harvest began. Grape vineyard irrigation continued, treated, leafhoppers, mites, bunch rot. Table grape picking remained active; Flame Seedless, Thompson Seedless, Zante Currant. Lemon, valencia orange, grapefruit harvest continued, very low volumes. Olive orchard irrigation, ongoing, some fruit drop occurred, hot weather. Peach orchard treated, Oriental fruit moth, peach twig borer. Pear harvest, active, nearly two thirds picked. French prunes harvested, packed. Dry prunes treated, mites. Applications to control, huskfly, mites, codling moth, active, walnut orchards. Broccoli light supply, Salinas area, moderate supply Santa Maria area. Cauliflower moderate supply, variable quality. Celery heavy supply, generally good quality. Iceberg head lettuce moderate supply, variable quality. Transplanting broccoli, cauliflower, head lettuce began, west side. Sweet potato harvest occurred Merced County. Livestock continued good. Pasture, range fair condition north, fair to poor elsewhere. Supplied supplemental feed livestock. Water supplies adequate to light northern third, short elsewhere.

COLORADO: Continued cool weather, precipitation prevailed in the east while the west slope remained hot, dry. Precipitation for the week avg. a trace to 3.40 in. east with the west receiving very little moisture. Temperatures 2 to 7° below normal east, near normal to above in the west.

Days suitable for fieldwork 5.6. Soil moisture 10% very short, 29% short, 58% adequate, 3% surplus. Alfalfa 2nd cutting 61%, 3rd cutting 11%. Barley harvest 61% complete. Oat harvest 56% complete. Spring wheat harvest 43% harvested. Dry beans flowered 70%; cut 4%. Dry onion harvest 22% complete. Summer potatoes 13% harvested. Fall potato fair to good. Corn 80% silked; good. Sugarbeet good. Pasture, range feed 1% very poor, 9% poor, 32% fair, 46% good, 12% excellent. Livestock mostly good.

FLORIDA: Temperatures near normal except slightly below normal, western Panhandle. Extreme maximums mid, upper 90s north, interior of

Peninsula. Coolest lows ranged from low 60s western Panhandle to 70s central, southern Peninsula. Dry weather prevailed, Panhandle to 70s central, southern Peninsula. Dry weather prevailed, Panhandle; showers, thunderstorms common from Big Bend area southward over Peninsula. Precipitation 0.50 in., numerous local areas recorded over 1.00 in., 1.00 to 4.00 in. quite common, southern third of Peninsula.

Soil moisture Panhandle, northern Peninsula short to adequate; other areas mostly adequate. Cotton, peanuts, soybeans mostly good progress. Sugarcane good. Corn harvest active. Haying continued where crops available. Pasture 26% fair, 57% good, 7% excellent. Cattle fair to excellent, mostly good. Citrus groves, trees, fruit very good to excellent, mostly good. Citrus groves, trees, fruit very good to excellent. Moisture adequate. New growth on trees of all ages. Several blocks early bloom grapefruit have sizes passing maturity. Some red grapefruit picked, ready for packing. Caretakers cutting cover crops, pruning. Hot temperature, scattered rains continued over vegetable producing areas. Early planted crops, northern areas, good progress. Planting central areas gaining momentum; land preparation, limited planting southern areas.

GEORGIA: Much needed rains parts of State. Several areas over 1.00 in., isolated totals near 4.00 in. Extreme western counties under 0.25 in. Temperatures 2 to 4° below normal north, about 1° above normal southwest. Hottest temperatures mid 80s mountains, upper 90s extreme south. Coolest temperatures generally in 60s, ranged mid 50s mountains, to near 70° along coast.

Days suitable for fieldwork 5.2. Soil moisture 15% very short, 29% short, 50% adequate, 6% surplus. Corn 85% mature, 66% 1989, 85% avg.; 30% harvested for grain, 16% 1989, 27% avg. Cotton declined despite increased showers, worms, insects increasing. Beet armyworm infestations heavy. Sorghum 3% very poor, 21% poor, 53% fair, 23% good; isolated harvest beginning. Peanuts 10% very poor, 24% poor, 42% fair, 24% good; dry in peanut belt. Foliage feeding insect damage heavy in spots. Digging just underway. Soybeans some improved from showers, insects building; stink bugs, loopers, lesser cornstalk borers. Tobacco 32% fair, 68% good; 68% harvested, 81% 1989, 73% avg. Watermelon harvest nearly complete. Apples 9% very poor, 7% poor, 61% fair, 23% good; 31% harvested, 18% 1989, 23% avg. Peach harvest virtually finished. Pecans 1% very poor, 27% poor, 65% fair, 7% good; declining because of dry conditions. Hay 1% very poor, 20% poor, 39% fair, 40% good; Harvest slowed by showers, north. Pasture 16% poor, 36% fair, 48% good; improving in north, central. Cattle, hogs fair to good. Main activities: Harvesting corn, tobacco, vegetables, hay, sorghum; irrigating all crops; spraying insecticides; mowing pastures.

HAWAII: Heat wave continues to scorch islands. Temperatures low 70s to low 90s with gusty winds up to 25 mph. Rainfall none to 3.10 in.

Days suitable for farm work 7.0. Papaya harvest active. Watermelon production moderate to heavy. Sugar, pineapple harvest continuous.

IDAHO: Temperatures above normal 2 to 12°, all areas 100° plus days. Trace precipitation Grangeville, Salmon. Large range fire south central.

Days suitable for fieldwork 7.0. Soil moisture 11% very short, 29% short, 60% adequate. Potato good; 33% turning; 10% vines dying; harvest underway southwest, south central. Spring barley 31% harvested, 25% 1989, 32% avg. Dry peas 83% harvested, 19% 1989, 55% avg. Lentils 69% harvested, 5% 1989, 34% avg. Dry beans few acres harvested. Alfalfa hay 2nd cutting 76% harvested, 75% 1989, 73% avg.; 3rd cutting underway southwest,

south central, east. Mint 77% harvested. Bluegrass seed harvested north. Peaches 56% harvested, 42% 1989, 58% avg. Irrigation water supplies mostly fair to good, very short areas south central, east. Grasshoppers, thrips several areas. Processing sweet corn 12% harvested. Damage to crops from excessive heat statewide. Livestock good. Range, pasture 4% very poor, 18% poor, 47% fair, 30% good, 2% excellent.

ILLINOIS: Temperatures 3 to 7° below normal north, 7 to 9° below normal south. Precipitation generally 1.00 in. or less, isolated areas more than 1.00 in.

Days suitable for fieldwork 5.75. Soil moisture 17% short, 82% adequate, 1% surplus. Oats harvested 98%, 100% 1989, 100% avg. Alfalfa 2% poor, 17% fair, 65% good, 16% excellent. Alfalfa hay second cutting 96%, 100% 1989, 100% avg. Alfalfa hay third cutting 24%, 53% 1989, 48% avg. Pasture 2% very poor, 2% poor, 17% fair, 65% good, 14% excellent.

INDIANA: Temperatures 3 to 8° below normal. Lows low 50s to low 60s, highs mid 70s to mid 80s. Precipitation 0.10 to 2.50 in. few areas.

Days suitable for fieldwork 5.1. Topsoil 16% short, 80% adequate, 4% surplus. Subsoil 4% short, 92% adequate, 4% surplus. Soybeans 29 in. high, 30 in. 1989, 32 in. avg. Oats 95% harvested, 95% 1989, 99% avg. Alfalfa hay 96% cut twice, 89% 1989, 95% avg. Pasture 1% poor, 21% fair, 71% good, 7% excellent. Cool temperatures slowing soybean growth. Corn making good progress. Forage crops good condition.

IOWA: Temperatures 4 to 6° below normal. Extremes 45°; 87°. Rainfall none to 5.08 in.; average 0.56 in.

Days suitable for fieldwork 6.4. Topsoil 5% short, 85% adequate, 10% surplus. Subsoil 3% short, 83% adequate, 14% surplus. Hay 1% poor, 14% fair, 70% good, 15% excellent. Pasture 1% poor, 9% fair, 63% good, 27% excellent. Oats 99% harvested, 100% 1989, 100% avg. Second crop alfalfa hay 99% harvested, 100% 1989, 100% avg. Third crop alfalfa hay 12% harvested, 27% 1989, 25% avg. Second crop clover hay 80% harvested, 95% 1989, 90% avg. Corn 60% milk stage, 82% 1989, 89% avg. Livestock mostly excellent.

KANSAS: Temperatures 4 to 8° below average across State. Precipitation generally light; heaviest 0.84 in.; 0.98 in. northeast, southeast respectively.

Days suitable for fieldwork 6.0. Surface moisture 43% short, 54% adequate, 3% surplus. Subsoil 40% short, 58% adequate, 2% surplus. Corn, sorghum, soybeans good progress, short moisture causing stress most areas except southwest where most crops are irrigated. Third cutting alfalfa hay 60% complete. Range, pasture generally good for this time of year, furnishing adequate grazing. Ranchers culling, sending cows and calves to market.

KENTUCKY: Cool, generally dry. Daytime highs lower 80s, lows upper 50s; both 5° below normal. Scattered rain east, west little or no rain. Few spots east, over 1.00 in., Overall deficits 0.50 in.

Days suitable for fieldwork 5.1. Soil moisture 11% very short, 50% short, 37% adequate, 2% surplus. Cooler weather reduced drought stress for crops, rain needed. Corn, soybean development slow, varied, conditions most fair to good. Tobacco mostly fair to good. Burley 55% topped. Dark tobacco 70% topped. Cutting just beginning. Pasture 3% very poor, 7% poor, 46% fair, 39% good, 5% excellent. Hay crops mostly fair to good.

LOUISIANA: Temperatures 4 to 6° below normal north, 2 to 3° below normal south. Extremes 55°; 100°. Rainfall none to 1.16 in.

Days suitable for fieldwork 6.2. Soil moisture 7% very short, 55% short, 36% adequate, 2% surplus. Corn mature 95%, 86% 1989, 84% avg.; harvested 26%, 25% 1989, 28% avg.; 3% poor, 28% fair, 62% good, 7% excellent. Cotton setting bolls 99%, 91% 1989, 97% avg.; open bolls 8%, 0% 1989, 11% avg.; 56% fair, 44% good. Hay final cutting 26%, 14% 1989, 21% avg. Peaches harvested 95%, 100% 1989, 99% avg. Rice headed 80%, 82% 1989, 86% avg.; ripe 40%, 37% 1989, 36% avg.; harvested 29%, 22% 1989, 23% avg.; 15% fair, 80% good, 5% excellent. Sorghum headed 92%, 91% 1989, 94% avg.; turning color 67%, 55% 1989, 65% avg.; ripe 33%, 13% 1989, 30% avg.; harvested 9%, 2% 1989, 11% avg.; 5% poor, 57% fair, 38% good. Soybeans blooming 85%, 78% 1989, 80% avg.; setting pods 64%, 47% 1989, 54% avg.; 41% fair, 47% good, 12% excellent. Sweet potatoes harvested 10%, 6% 1989, 10% avg.; 25% fair, 58% good, 17% excellent. Harvesting slowed central due to dry soils. Sugarcane planted 3%, 2% 1989, 1% avg., 9% poor, 64% fair, 27% good. Stress due to lack of moisture becoming apparent. Livestock 3% poor, 27% fair, 68% good, 2% excellent. Pasture 9% poor, 57% fair, 32% good, 2% excellent. Vegetable 22% poor, 50% fair, 28% good.

MARYLAND & DELAWARE: **MARYLAND:** Precipitation 2.74 in. Temperature 73°, normal 76°. Extremes 47°; 90°.

Days suitable for fieldwork 3.3. Topsoil 15% short, 40% adequate, 45% surplus. Subsoil 10% short, 65% adequate, 25% surplus. Corn good; 93% silked, 81% 1989, 91% avg.; 58% dough, 44% 1989, 55% avg.; 32% dent, 15% 1989, 24% avg. Soybeans good; 74% bloomed, 62% 1989, 63% avg.; 42% setting pods, 39% 1989, 35% avg. Tobacco good; 70% bloomed, 59% 1989, 70% avg.; 51% topped, 27% 1989, NA avg.; 17% harvested, 11% 1989, 9% avg. Oats fair to good; 72% harvested, 73% 1989, 87% avg. Sweet corn 65% harvested, 59% 1989, 71% avg. Potatoes 76% harvested, 52% 1989, 60% avg. Watermelons 69% harvested, 70% 1989, 70% avg. Cantaloupes 76% harvested, 68% 1989, 76% avg. Lima beans 26% harvested, 22% 1989, 38% avg. Snap beans 81% harvested, 74% 1989, 80% avg. Tomatoes 69% harvested, 64% 1989, 56% avg. Hay supplies adequate. Alfalfa hay third cut 44% complete, 45% 1989, 56% avg. Other hay second cut 70% complete, 58% 1989, 83% avg. Other hay third cut 12% complete, 6% 1989, 36% avg. Apples fair to good. Apples 10% harvested, 8% 1989, 9% avg. Peaches fair condition. Peaches 64% harvested, 54% 1989, 55% avg. Pasture fair to good.

DELAWARE: Precipitation 2.16 in. Temperature 76°, normal 76°. Extremes 60°; 90°.

Days suitable for fieldwork 5.1. Topsoil 83% adequate, 17% surplus. Subsoil 100% adequate. Corn good; 51% dough, 30% 1989, 52% avg.; 11% dent, 14% 1989, 29% avg. Soybeans good; 67% bloomed, 65% 1989, 62% avg.; 13% setting pods, 7% 1989, 29% avg. Sweet corn 67% harvested, 68% 1989, 72% avg. Potatoes 68% harvested, 63% 1989, 63% avg. Watermelons 36% harvested, 47% 1989, 49% avg. Cantaloupes 80% harvested, 60% 1989, 76% avg. Cucumbers 50% harvested, 80% 1989, 78% avg. Lima beans 13% harvested, 6% 1989, NA avg. Snap beans 78% harvested, 73% 1989, 83% avg. Tomatoes 60% harvested, 45% 1989, 35% avg. Hay supplies adequate. Alfalfa hay third cut 48% complete, 51% 1989, 82% avg. Other hay second cut 100% complete, 92% 1989, 90% avg. Other hay third cut 38% complete, 50% 1989, 47% avg. Apples fair to good. Apples 10% harvested, 28% 1989, 14% avg. Peaches 95% harvested, 84% 1989, 64% avg. Pasture good.

MICHIGAN: Temperatures 1 to 6° below normal. Extremes 38°; 86°. Precipitation none to 1.82 in. across the State.

Days suitable for fieldwork 5.0. Soil moisture 38% short, 59% adequate, 3% surplus. Corn 85% silked, 95% 1989, 95% avg.; 0% dough, 5% 1989, 25% avg.; 0% dent, 0% 1989, 3% avg.; 4% poor, 16% fair, 50% good, 30% excellent. Soybeans 90% blooming, 85% 1989, 90% avg.; 35% setting pods, 40% 1989, 50% avg.; 5% poor, 15% fair, 50% good, 30% excellent. Wheat 99% harvested, 100% 1989, 99% avg. Pasture 3% very poor, 7% poor, 30% fair, 40% good, 20% excellent. Major activities: Baling 2nd cutting hay, harvesting oats, working winter wheat ground, picking early apples, peaches, tomatoes. Post harvest spraying of tart cherries.

MINNESOTA: Temperatures 2 to 4° below normal. Extremes 38°; 93°. Precipitation 0.02 to 0.10 in., greatest weekly total 1.23 in.

Days suitable for fieldwork 6.1. Topsoil 38% very short, 23% short, 32% adequate, 7% surplus. Spring wheat 71% cut, 77% 1989, 72% avg.; 50% combined 65% 1989, 54% avg. Oats 91% cut 96% 1989, 91% avg.; 70% combined, 89% 1989, 80% avg. Barley 98% cut, 95% 1989, 85% avg.; 88% combined, 90% 1989, 70% avg. Corn 55% in milk, 78% 1989, 82% avg.; 19% in dough, 29% 1989, 38% avg. Soybeans 76% setting pods, 90% 1989, 86% avg. Winter wheat 90% harvested, 93% 1989, 89% avg. Rye 82% harvested, 98% 1989, 91% avg. Field corn 1% very poor, 10% poor, 33% fair, 48% good, 8% excellent. Soybeans 2% very poor, 5% poor, 45% fair, 40% good, 8% excellent. Spring wheat 2% very poor, 4% poor, 33% fair, 53% good, 8% excellent. Alfalfa 7% very poor, 21% poor, 36% fair, 31% good, 5% excellent.

MISSISSIPPI: Temperatures 5° below normal. Extremes 52°; 103°. Mostly dry statewide with scattered showers. Rainfall 0.29 in., 0.56 in. below normal. Soil temperature 85°.

Days suitable for fieldwork 6.4, 5.6 1989, 5.0 avg. Soil moisture 20% very short, 62% short, 18% adequate. Cotton 97% boll setting, 87% 1989, 97% avg.; 4% open bolls, 0% 1989, 4% avg.; 1% very poor, 6% poor, 12% fair, 68% good, 13% excellent. Corn 100% silking, 100% 1989, 100% avg.; 87% dough, 81% 1989, 92% avg.; 67% dent, 59% 1989, 78% avg.; 32% mature, 25% 1989, 40% avg.; 8% harvested, 4% 1989, 6% avg.; 46% silage harvested, 29% 1989, 47% avg.; 7% very poor, 5% poor, 36% fair, 52% good. Rice 76% heading, 66% 1989, 78% avg.; 4% mature; 31% fair, 52% good, 17% excellent. Soybeans 70% blooming, 55% 1989, 67% avg.; 47% podding, 31% 1989, 36% avg.; 3% turning color; 1% very poor, 6% poor, 52% fair, 31% good, 10% excellent. Sorghum 90% heading, 83% 1989, 93% avg.; 45% coloring, 47% 1989, 57% avg.; 15% mature, 9% 1989, 16% avg.; 2% harvested, 27% silage harvested; 9% poor, 39% fair, 41% good, 11% excellent. Peaches 99% harvested, 94% 1989, 96% avg.; 30% very poor, 22% poor, 45% fair, 3% excellent. Hay 71% harvested, 56% 1989, 68% avg. Peanuts 19% harvested. Sweet potatoes 5% harvested. Watermelons 88% harvested, 78% 1989, 79% avg. Pasture, livestock good to fair. Activities: Cutting hay, spraying pesticides on cotton for bollworms, irrigating cotton, corn harvesting, cutting silage.

MISSOURI: Temperature 7 to 10° below normal. Rainfall 1.00 in. extreme south, 0.10 in. elsewhere.

Days suitable for fieldwork 5.6. Topsoil 23% short, 76% adequate, 1% surplus. Southern third mostly short moisture. Corn development over two weeks behind avg. Corn dough stage varies 27% in north central to 90% southeast. Soybeans podding range 19% southwest, to 48% northwest. Sorghum coloring just starting in north central, northeast, east central to 15% south central, southeast. Alfalfa hay 2nd cutting 97%, 100% 1989, 100% avg. alfalfa hay 3rd cutting 38%, 63% 1989, 71% avg. Other hay harvested 92%, 93% 1989, 98% avg. Pasture 2% very poor, 9% poor, 26% fair, 53% good, 10% excellent.

MONTANA: Temperatures above normal. Precipitation below normal. Most stations in west had some moisture.

Days suitable for fieldwork 6.7. Topsoil 77% short, 23% adequate. Subsoil 75% short, 25% adequate. Winter wheat 1% very poor, 5% poor, 24% fair, 48% good, 22% excellent. Barley 4% very poor, 12% poor, 30% fair, 45% good, 9% excellent; 23% harvested, 17% 1989, 29% avg. Oats 8% very poor, 21% poor, 33% fair, 35% good, 3% excellent; 25% harvested, 12% 1989, 28% avg. Pasture, range feed 4% very poor, 16% poor, 30% fair, 46% good, 4% excellent. Second cutting alfalfa harvested 46%, 46% 1989, 54% avg. Other hay harvested 83%, 84% 1989, 87% avg.

NEBRASKA: Temperatures 2° below normal west to 6° below central. Extremes 47°; 97°. Precipitation occurred weekend amounts varying 0.10 in. northeast up to 2.71 in. east central.

Days suitable for fieldwork 6.4. Topsoil 50% short, 49% adequate, 1% surplus. Subsoil 55% short, 44% adequate, 1% surplus. Alfalfa 9% poor, 43% fair, 42% good, 6% excellent; 30% third cutting, 57% 1989, 46% avg. Grasshoppers, potato leaf hoppers causing problems east, southeast. Oats 100% harvested, 100% 1989, 100% avg. Barley harvest virtually complete. Irrigated corn 92% good or better, dryland 68% good or better. Some southern dryland corn severely stressed, in very poor condition. Spraying across the State for corn borers, spider mites west, corn root worm beetles south. Majority poor sorghum in southern third of State. Chinch bugs, green bugs continue causing damage eastern third of State. Row crop development 1 to 2 weeks behind normal. Dry bean growers treating for mold, blight also troubled by western Mexican bean beetles. Irrigators shut down due to heavy rain started up by weekend, remainder State continued irrigating as usual. Pasture, range 4% very poor, 19% poor, 37% fair, 37% good, 3% excellent. Some movement, early sales west. Some supplemental feeding south, southwest, due to short pastures. Livestock good with below normal temperatures. Main activities: Cutting hay; completing small grain harvest; irrigating; fall planting preparations; weed, insect control.

NEVADA: Mostly hot, dry. Unstable airmasses resulted in isolated thunderstorms that produced more lightning, gusty winds than rain. Temperatures above normal all areas. Extremes 37°; 114°.

Melon harvest starting. Second crop alfalfa hay nearing completion. About 90% 1990 potato crop in blooming stage. Ranges continue to deteriorate daily.

NEW ENGLAND: Precipitation 0.76 to 3.99 in. Maine, 2.53 to 7.06 in. New Hampshire, Vermont; 2.33 to 6.70 in. elsewhere, 8.20 to 9.34 in. selected stations south. Temperatures low 50s to low 60s north, to high 60s south; 2 to 6° above normal north, 1 to 4° above normal south. Maximum temperatures low to upper 80s.

Days suitable for fieldwork 4.0. Soil moisture north 9% short, 50% adequate, 41% surplus; south 53% adequate 47% surplus. Grazing availability 8% short, 82% adequate, 10% surplus. Pasture 3% poor, 27% fair, 66% good, 4% excellent. Maine, Rhode Island, Connecticut River Valley potato good. Maine oat good. Field corn good. Sweet corn 35% harvested, 40% 1989, 37% avg.; good. First cut hay 100% harvested, 100% 1989, 100% avg.; good. Second cut hay 54% harvested, 46% 1989, 56% avg.; good. Outdoor tobacco 38% harvested, shade tobacco 20% harvested; good. Apples, peaches, pears, good. Blueberries 62% harvested, good. Major farm activities: Cutting hay, mowing orchards, harvesting fruits, vegetables.

NEW JERSEY: Temperatures near normal. Extremes 56°; 90°. Rainfall 3.83 in. north, 3.54 in. central, 3.35 in. south. Heaviest 24 hour total 5.38 in. on 9th, 10th. Estimated soil moisture percent field capacity averaged 96% north, 93% central, 79% south. Four inch soil temperatures 74° north, 76° central, 77° south.

Soil moisture is adequate to excessive in most areas as a result of heavy showers. Fall vegetable planting well advanced. Movement of summer vegetables mostly moderate. Lower humidity would be beneficial. Irish potato digging increased, harvest for the processing market complete. Blueberry harvest complete. Peach marketings increased from the light crop. Summer apple picking continued, fall varieties sizing. Oat combining complete. Most corn, soybean prospects good to excellent. Hay making limited. Pasture growth good to excellent.

NEW MEXICO: Temperatures a few degrees below normal statewide. Most areas received some precipitation. Highest 1.47 in. at Las Vegas, 1.30 in. at Taos.

Days suitable for fieldwork 5.9. Soil moisture 71% short, 29% adequate. Livestock, rangeland continuing to improve in most areas. Rain is still needed in much of the State. Cattle, sheep both poor to good. Range 50% poor, 36% fair, 14% good.

NEW YORK: Wet week in eastern areas, dry in western areas. Rainfall 4.00 to 6.00 in. east, 0.50 to 0.75 in. west. Clouds held maximum temperatures below normal, mild nights kept weekly average temperatures close to normal.

Days suitable for fieldwork 5.1. Soil moisture mostly adequate. Areas in northeast getting dry, in southeast wet. Pastures 58% fair, 42% good. Hay good, corn mostly good. Second cutting alfalfa 73% complete, 53% 1989, 60% avg.; yields good. Wheat harvest 92% complete, 90% 1989, 85% avg. Oat harvest 33% finished, 43% 1989, 36% avg. Some growers killing potato vines, harvest underway on a few fields. Harvesting of Jersey Mac apples in full swing in Lake Ontario region. Red Haven peach harvest at peak. Size, quality good. Hot, humid weather conditions increased disease pressure on fruit. Rains beneficial to most vegetable crops. Harvesting in full swing. Orange County onion growers hoping for dry weather to dry muck soils. Some fields ready to harvest, wetness delaying progress.

NORTH CAROLINA: Temperatures 1 to 3° below normal across the State. Extremes 47°; 95°. Precipitation 0.53 to 8.10 in.

Days suitable for fieldwork 4.9. Soil moisture 8% very short, 32% short, 52% adequate, 8% surplus. Pasture 4% very poor, 18% poor, 50% fair, 28% good. Livestock feed from pasture 72%. Hay second cutting 62%; third cutting 25%. Peaches harvested 96%; flue cured tobacco harvested 38%. Corn soft dough 82%; corn dent 74%; corn mature 50%; cotton setting bolls 92%; soybeans blooming 55%; soybeans setting pods 27%. Crop condition: Corn 8% very poor, 32% poor, 47% fair, 13% good; cotton 2% poor, 33% fair, 58% good, 7% excellent; soybeans 9% poor, 51% fair, 40% good; peanuts 5% poor, 41% fair, 51% good, 3% excellent; sorghum 22% poor, 57% fair, 21% good; tobacco 3% poor, 31% fair, 60% good, 6% excellent; sweet potatoes, 25% fair, 67% good, 8% excellent; apples 4% very poor, 24% poor, 36% fair, 36% good; truck crops 2% very poor, 17% poor, 45% fair, 36% good; hay 1% very poor, 19% poor, 48% fair, 30% good, 2% excellent. Major activities: Harvesting flue cured tobacco; cutting corn silage; hay harvesting; spraying field crops; harvesting vegetables. Other activities included: Tending livestock; harvesting peaches; topping, spraying, irrigating tobacco; general farm maintenance.

NORTH DAKOTA: Warm, dry statewide. Temperatures 40° below normal east central, southeast to 30° above normal northwest. Precipitation none southeast to 0.20 in. northwest.

Days suitable for fieldwork 6.1. Soil moisture well below average. Topsoil 58% very short, 39% short, 3% adequate. Subsoil 54% very short, 46% short. Small grain harvest progressed near average pace. Spring wheat 31% fair, 58% good, 11% excellent; 40% combined, 59% 1989, 44% avg. Durum wheat 25% fair, 66% good, 9% excellent; 21% combined, 38% 1989, 29% avg. Oats 9% poor, 39% fair, 46% good, 6% excellent; 56% combined, 65% 1989, 54% avg. Barley 27% fair, 69% good, 4% excellent; 75% combined, 80% 1989, 63% avg. Winter wheat 1% poor, 33% fair, 60% good, 6% excellent; 89% combined, 95% 1989, 89% avg. Late season crops showed stress. Corn for grain 2% poor, 52% fair, 46% good; 64% milk to dough and beyond, 79% 1989, 77% avg. Flaxseed 34% fair, 58% good, 8% excellent; 61% turning to ripe and beyond, 63% 1989, 55% avg. Dry edible beans 8% very poor, 10% poor, 50% fair, 32% good; 64% fully podded and beyond, 63% 1989, 66% avg. Soybeans 2% poor, 53% fair, 45% good; 4% lower leaves yellowing and beyond, 7% 1989, 11% avg. Sunflower 4% poor, 32% fair, 53% good, 11% excellent; flowers dried and beyond 8%, 11% 1989, 12% avg. Potatoes 46% very poor, none poor, 54% fair; 63% rows filled and beyond, 49% 1989, 81% avg. Sugarbeets 29% poor, 40% fair, 31% good. Pastures 17% very poor, 44% poor, 35% fair, 4% good. Stockwater 2% very short, 59% short, 39% adequate. Second cutting alfalfa 65% harvested, other hay 92% harvested.

OHIO: Temperatures 2 to 60° subnormal. Highs mid 76 to 83°. Lows mid 53 to 61°. Rainfall variable 2.00 to 2.50 in. north, east; 0.10 to 1.00 in. elsewhere.

Days suitable for fieldwork 5.6. Soil moisture 9% short, 86% adequate, 5% surplus. Corn mostly good; cool weather slowed development, no widespread disease or insect problems. Soybeans fair to mostly good; root rot, stem rot, slow development problems; crop recovering from surplus moisture. Pasture 1% very poor, 4% poor, 26% fair, 58% good, 11% excellent. Hay harvest very active; quality much better than earlier in season. Alfalfa seeding active. Harvesting fruit, vegetables.

OKLAHOMA: Temperatures 70° below normal north central to 40° below normal Panhandle. Precipitation none southeast to 0.87 in. north central.

Days suitable for fieldwork 5.9. Topsoil 40% short, 60% adequate. Subsoil 30% short, 70% adequate. Wheat 100% harvested, 100% 1989, 100% avg.; 99% ground plowed, 90% 1989, 97% avg.; 15% seedbed prepared, 20% 1989, 20% avg. Cotton 55% fair, 35% good, 10% excellent; 98% squaring, 85% 1989, 95% avg.; 75% setting bolls, 55% 1989, 65% avg.; 1% open bolls, 0% 1989, 0% avg. Sorghum 2% poor, 33% fair, 65% good; 40% heading, 75% 1989, 60% avg.; 10% coloring, 25% 1989, 25% avg. Soybeans 55% flowering, 60% 1989, 65% avg.; 20% setting pods, 35% 1989, 35% avg. Peanuts 98% pegging, 90% 1989, 95% avg.; 60% setting pods, 45% 1989, 70% avg. Corn 80% milk to soft, 75% 1989, 90% avg.; 30% mature, 10% 1989, 30% avg. Alfalfa 90% third cutting, 90% 1989, 80% avg.; 25% fourth cutting, 15% 1989, 15% avg. Pastures 5% poor, 45% fair, 45% good, 5% excellent. Cattle good; marketings average, prices down from last week. Cool temperatures aided growth of pasture, range forage.

OREGON: Traces of precipitation coastal areas. Some dry thunderstorms from Cascades eastward. Most areas dry with some areas reporting trace amounts of precipitation. Only Klamath Falls had

measurable precipitation 0.15 in. Temperatures generally very hot. Coastal areas near normal. Rest of State 5 to 140° above normal.

Soil moisture 90% short, 10% adequate. Barley 52% harvested, 55% 1989, 70% avg. Grass seed harvesting wrapping up. Mint cutting, harvesting underway Yamhill, Linn Cos.; began Union, Jefferson Cos. Gravenstein apple harvest proceeding with good fruitage Hood River Co. Early apple varieties harvested Yamhill Co. Starkrimson, Bartlett pear harvesting began Hood River Co.; excellent crop expected. Bartlett pears with good fruit size harvested Jackson Co.; harvest began Douglas Co. Peach harvesting continued Yamhill Co. Fruit tree spraying continued Willamette Valley. Blueberry harvesting continued Hood River Co.; nearly complete Lincoln Co. Cherry harvest nearly finished Union Co. Nut orchards flailed Willamette Valley. Cranberry development continued with good fruit set, size along southern coast. Vegetable harvesting in full swing Willamette Valley. Harvest of snap beans continued; early sweet corn underway; first onions pulled Willamette Valley. Potato harvest continued Hermiston Boardman area with good sizes. Onions also sizing well. Potatoes flowering central areas. Tomato, cantaloupe, green pepper packing in full swing Hermiston area. Garlic harvest began central areas. Livestock condition good. Yearling steers moved to feedlots Klamath Falls area. Water, feed short eastern areas. Range, pasture 1% very poor, 37% poor, 38% fair, 21% good, 3% excellent.

PENNSYLVANIA: Wet week. Temperature 69°, 20° below normal. Extremes 46°; 87°. Precipitation 1.65 in., 0.85 in. above normal.

Days suitable for fieldwork 4. Soil moisture 6% short, 77% adequate, 17% surplus. Corn 70% silk, 51% 1989, 79% avg.; 16% dough, 8% 1989, 27% avg.; 2% dent, 0% 1989, 4% avg.; 1% very poor, 5% poor, 19% fair, 45% good, 30% excellent. Soybean 3% poor, 20% fair, 50% good, 27% excellent. Wheat harvest 93% complete, 91% 1989. Oat harvest 64% complete, 58% 1989. Barley harvest 98% complete, 99% 1989. Tobacco harvest 0% complete, 2% 1989. Potato harvest 12% complete, 19% 1989. Second cutting alfalfa 78% complete, 60% 1989. Third cutting alfalfa 23% complete, 21% 1989. Fourth cutting alfalfa 1% complete, 0% 1989. Second cutting clover timothy 54% complete, 36% 1989. Quality of hay made mostly good to fair. Pasture 1% very poor, 5% poor, 73% fair, 21% good. Apple harvest 8% complete, 12% 1989. Peach harvest 29% complete, 25% 1989. Grapes harvest 2% complete, 0% 1989. Fall plowing 8% complete, 7% 1989. Activities: Harvesting hay, haylage, barley, wheat, potatoes, oats, fruit, vegetables; repairing fence; weed control; hauling manure; spreading fertilizer; maintaining machinery; caring for livestock.

PUERTO RICO: Rainfall of 1.52 in. was 0.06 in. above normal. Highest rainfall 5.60 in. at San Lorenzo, 4.27 in. at Pico Del Este Luquillo, 3.50 in. at Lares. Highest 24 hour total 3.40 in. at Lares. Divisional temperature 82 to 83° on the Coast, 76 to 78° at Interior with mean station 68° at Pico Del Este Luquillo to 86° at Ponce 4E. Extremes 51°; 96°.

SOUTH CAROLINA: Temperatures 20° below normal in northwest to 10° above normal in the southern portion of the State. Rainfall 1.00 in. northwest to 2.80 in. southern part.

Days suitable for fieldwork 5.4. Soil moisture 9% very short, 57% short, 34% adequate. Cotton 44% poor, 47% fair, 9% good, 94% setting bolls, 86% 1989, 89% avg.; 2% open bolls, 5% 1989, 4% avg. Soybeans 2% very poor, 20% poor, 49% fair, 29% good, 60% blooming, 50% 1989, 59% avg.; 22% setting pods, 20% 1989, 24% avg. Corn poor to fair, 86%

matured, 56% 1989, 61% avg.; 30% harvested, 7% 1989, 10% avg. Sorghum fair, 15% harvested, 15% 1989, 11% avg. Tobacco fair to good, 60% harvested, 47% 1989, 51% avg.; 4% stalks destroyed, 2% 1989, 2% avg. Peanuts fair. Watermelons fair, 88% harvested, 87% 1989, 89% avg. Cantaloupes fair, 85% harvested, 83% 1989, 86% avg. Peaches fair, 86% harvested, 81% 1989, 88% avg. Pastures 8% very poor, 42% poor, 40% fair, 10% good.

SOUTH DAKOTA: Temperatures 0 to 5° below normal. Extremes 38°; 101°. Weekly precipitation scattered, heavier amounts south. Maximum 1.34 in. Growing season precipitation 4.46 in. below to 7.41 in. above normal. Growing degree days 238 units above to 181 units below normal.

Days suitable for fieldwork 5.9. Subsoil 24% critically short, 44% short, 32% adequate. Topsoil 28% critically short, 41% short, 30% adequate, 1% surplus. Range, pasture 5% very poor, 14% poor, 39% fair, 37% good, 5% excellent. Spring wheat 1% very poor, 19% poor, 25% fair, 33% good, 22% excellent. Other crop conditions mostly good. Warm, dry weather. Row crops with heat stress. Small grains mostly harvested. Grasshoppers, weed problems. Major activities: Combining, stubble tillage, spraying, fallow work.

TENNESSEE: Cold front over eastern portions of State early week brought scattered showers east, cooler temperatures statewide. Slow warming trend mid week. Temperatures below normal statewide. Rainfall much below normal.

Days suitable for fieldwork 5.8. Soil moisture 12% very short, 36% short, 52% adequate. Corn 58% dough, 76% 1989, 81% avg.; 28% dent, 38% 1989, 49% avg.; 4% mature, 6% 1989, 12% avg.; 3% very poor, 4% poor, 47% fair, 44% good, 2% excellent. Cotton 5% open bolls, 4% 1989, 3% avg.; 3% very poor, 11% poor, 25% fair, 58% good, 3% excellent. Sorghum 78% headed, 88% 1989, 88% avg.; 12% turning color, 30% 1989, 45% avg.; 2% very poor, 5% poor, 45% fair, 48% good. Soybeans 58% blooming, 60% 1989, 70% avg.; 28% setting pods, 28% 1989, 40% avg.; 2% poor, 43% fair, 49% good, 6% excellent. Tobacco 58% topped, 52% 1989, 58% avg.; 1% poor, 25% fair, 72% good, 2% excellent. Burley tobacco 8% harvested, 8% 1989, 10% avg. Dark fired tobacco 8% harvested, 8% 1989, 6% avg. Dark air cured tobacco 8% harvested, 4% 1989, 6% avg. Pastures 6% poor, 41% fair, 52% good, 1% excellent. Cattle 2% poor, 18% fair, 75% good, 5% excellent. Primary activities: Spraying crops, topping tobacco.

TEXAS: Much weather across State result of unusual cool front. Front left behind cooler than normal temperatures, general lack of rainfall. Exceptions to rain Trans Pecos, south. Temperatures below normal statewide. Rainfall below normal all areas except Trans Pecos, Lower Valley, south.

Crops: Corn dent stage many High Plains fields. Some producers still watering. Harvest continued Blacklands. Aflatoxin problems increasing. Harvest wind down central. Harvest increased Upper Coast. Harvest made progress as fields dried Winter Garden. Corn mature 62%, 58% 1989, 60% avg.; harvested 48%, 42% 1989, 38% avg. Grain sorghum fields Plains responded well to recent rains, showing good progress. Some dryland fields still needed more rain. Producers treating for greenbugs. Fields heading, turning color. Harvest continued Blacklands. Recent rainfall too late to do much good, few later fields may benefit from moisture. Harvest winding down central. Harvest continued Upper Coast, most yields slightly below average. Sorghum mature 54%, 54% 1989, 54% avg.; harvested 47%, 42% 1989, 46% avg. Cotton continued good progress Plains; cooler weather beginning week slowed maturing. By late week, warmer temperatures returned. Potential

yield many dryland fields questionable. Bollworm activity Low Plains increased. Bolls opening Blacklands, some defoliation. Cooler, wetter weather Trans Pecos slowed maturing. Harvest continued central. Harvest winding down Coastal Bend, showers delayed operations slightly. Harvest nearing completion Valley. Cotton harvested 5%, 7% 1989, 7% avg. Land preparation underway small grain planting High Plains. Soybeans good progress High Plains. Harvest increasing Blacklands. Early yields fair. Later fields expected to improve. Harvest early varieties continued Upper Coast. Pods filling later fields. Recent rains helped later crop. Rice harvest behind normal, gaining ground. More fields heading. Rice harvested 29%, 29% 1989, 32% avg. Peanuts generally good condition most areas. Recent rains very timely, improved growth. Light disease problems showing up parts Low Plains. Warmer temperatures now needed.

Commercial Vegetables: Rio Grande Valley, peppers good progress. Land preparation continued. San Antonio Winter Garden, land preparation, planting resumed as fields dried out. Eastern areas, early sweet potatoes being harvested. Later fields need rain. Watermelon harvest continued. Land preparations fall planting continued. High Plains, harvest continued onions, potatoes, cucumbers. Cantaloupe harvest continued. Trans Pecos, isolated heavy rains damaged pepper, cantaloupe fields. Harvest slowed by rains. Pecans continued fill many areas. Recent rains slowed drop, helped nuts fill. Aphid problems continued increase many groves.

Range and Livestock: Ranges, pastures continued improvement most areas. Previously dry west received very good isolated rains. Regrowth hay fields increasing. Haying activities continued most areas. Livestock remained good. Range, pasture 2% very poor, 16% poor, 47% fair, 28% good, 7% excellent.

UTAH: Temperatures 3° above normal. Precipitation almost zero.

Days suitable for fieldwork 6.9. Soil moisture 100% short. Hot, dry weather allowed harvest of small grains to progress rapidly. Barley 70% harvested, 64% 1989, 68% avg. Winter wheat 90% harvested, 86% 1989, 84% avg. Spring wheat 65% harvested, 63% 1989, 58% avg. Oats 68% ripe, 68% 1989, 70% avg. Oats for grain harvest underway. Oat hay, silage harvest winding down. Average corn height 72.0 in. Corn tasseling 77% completed, 75% 1989, 90% avg. Second cutting alfalfa hay 95% completed, 93% 1989, 91% avg. Third cutting alfalfa hay completed Washington County, underway other locations. Farmers planting alfalfa seed Box Elder County. Apricot harvest completed. Early peach harvest ongoing. Non irrigated range, pasture fair.

VIRGINIA: Temperatures below normal. Heavy rainfall by weekend pushed precipitation totals well above normal.

Days suitable for fieldwork 4.8. Topsoil 11% very short, 29% short, 53% adequate, 7% surplus. Corn silked 81%, 79% 1989, 80% avg.; dough stage 49%, 45% 1989, 44% avg.; dent stage 27%, 22% 1989, 23% avg.; 2% very poor, 7% poor, 50% fair, 41% good. Soybeans bloomed 55%, 48% 1989, 47% avg.; setting pods 32%, 37% 1989, 26% avg.; 6% poor, 57% fair, 36% good, 1% excellent. Flue tobacco 21% harvested, 14% 1989, 10% avg. Fire tobacco 15% harvested, 6% 1989, 3% avg. Burley topping continued as well as spraying for hornworms. Tobacco 13% fair, 27% good, 60% excellent. Peanut 50% fair, 50% good. Some problems with leafspot disease, sclerotinia blight. Potato harvest nearing completion. Fruit harvest continued. Pasture 5% very poor, 17% poor, 51% fair, 22% good, 5% excellent. Alfalfa, other hay mostly fair to

(Continued to back cover)

International Weather and Crop Summary

HIGHLIGHTS

August 5-11, 1990

USSR ... In Western USSR, welcomed dryness and mild weather in the north favors crop maturation and allows the small grain harvest pace to increase. In the New Lands, weather conditions continue favorable for spring grains, filling in the north and maturing in the south.

EUROPE ... Cooler weather breaks the unseasonable heat spell, but dryness persists in France.

EASTERN ASIA ... Tropical Storm Minona hits eastern Japan. Widespread rain falls throughout China.

SOUTH ASIA ... Showers bring some relief to reproductive summer crops in the southern interior but miss Gujarat's primary groundnut regions.

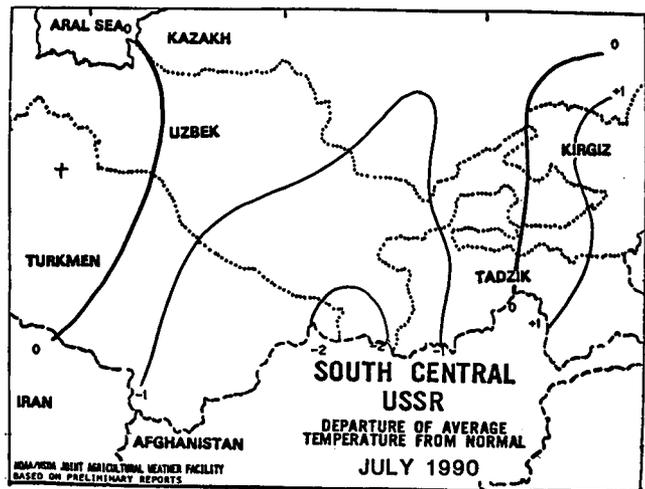
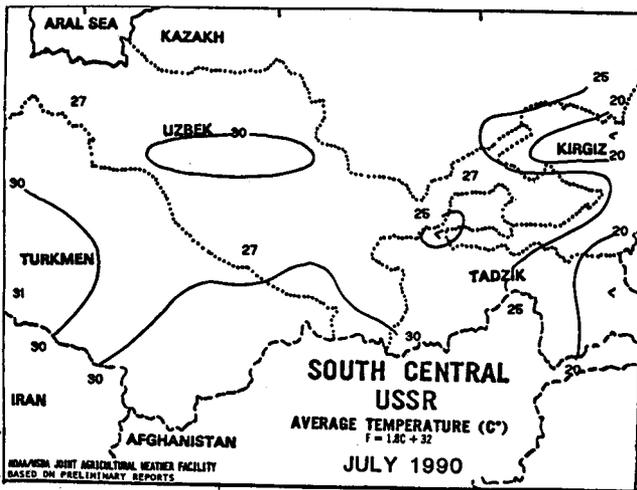
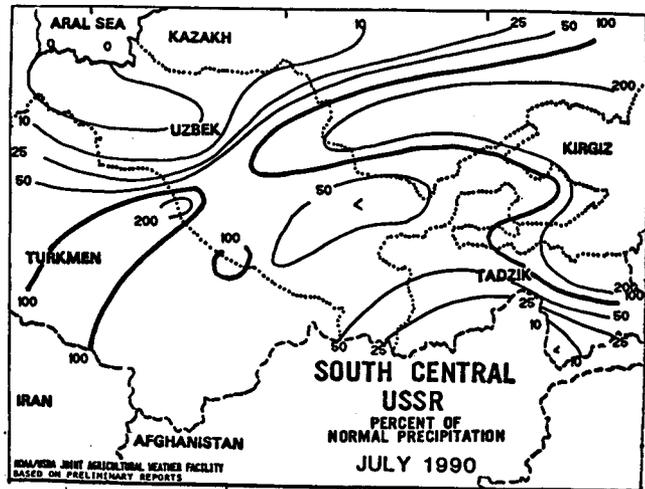
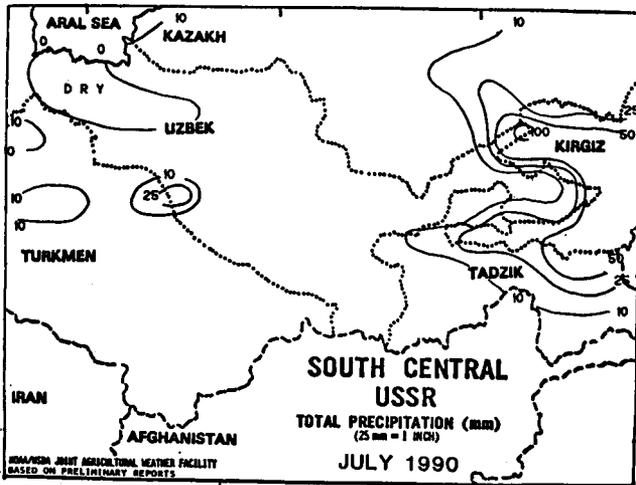
SOUTHEAST ASIA ... Much needed rain in central Thailand improves irrigation reserves for secondary crops.

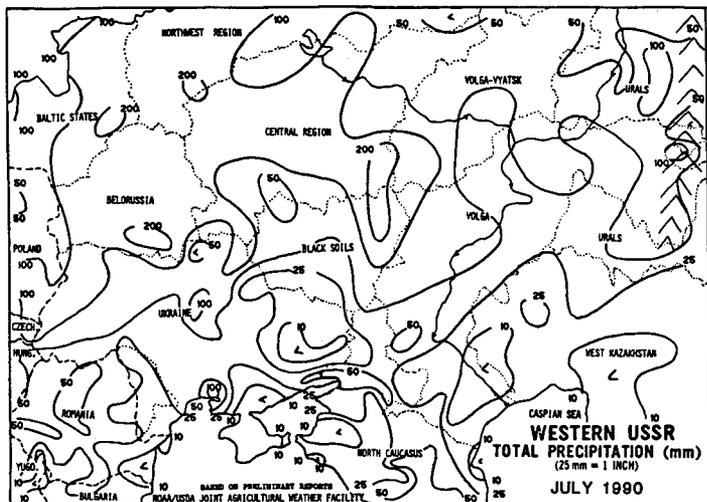
SOUTH AMERICA ... Mostly dry weather prevails throughout Argentina and south-central Brazil. Unseasonably mild weather promotes early wheat growth in Argentina.

AUSTRALIA ... Cool, wet weather continues over many western and southeastern crop areas.

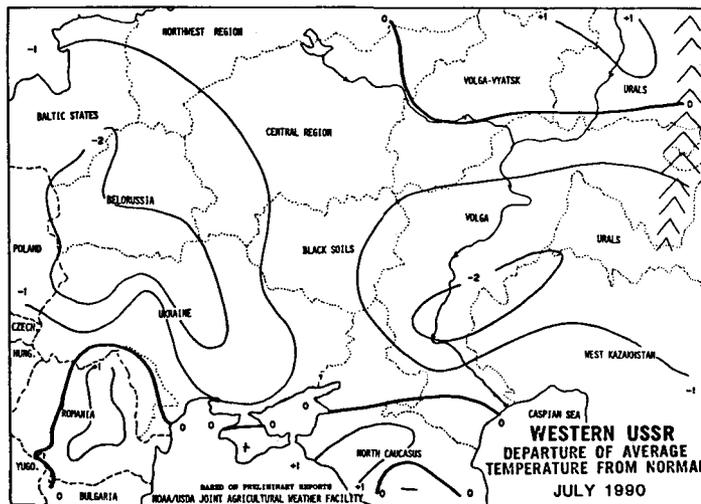
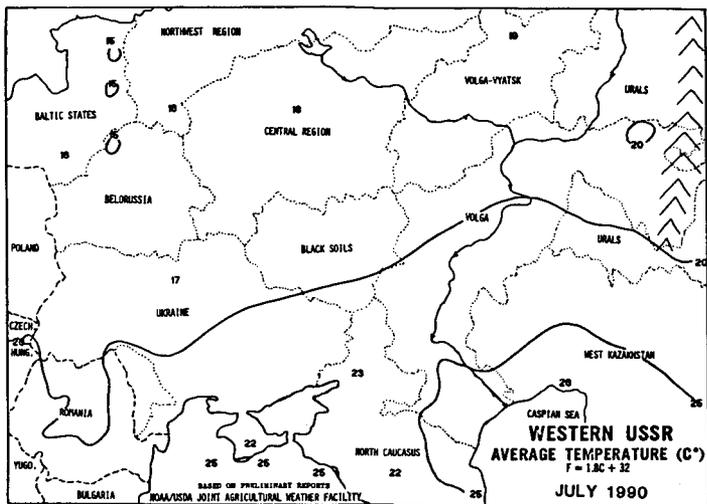
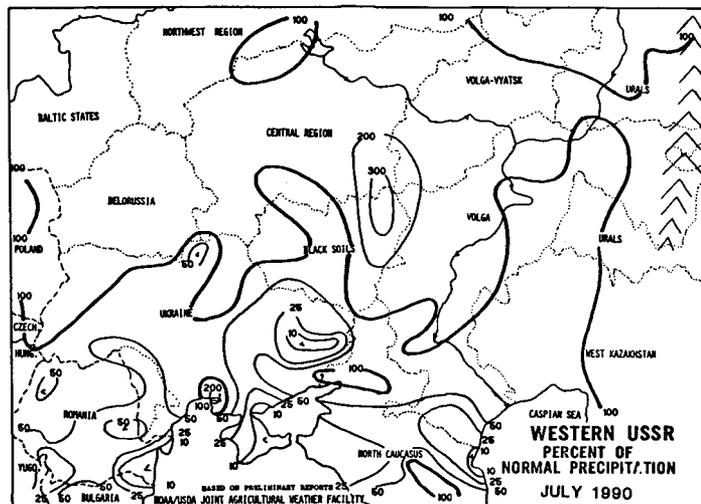
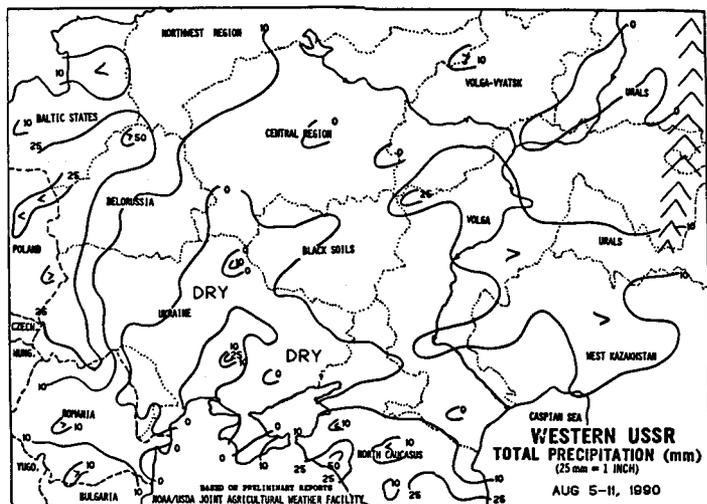
CANADA ... Dry, warm weather in Alberta and Saskatchewan favors crop growth but stresses immature grains and oilseeds.

MEXICO ... Widespread rain favors immature crops. Inundating rain from Hurricane Diana hits the east-central region.

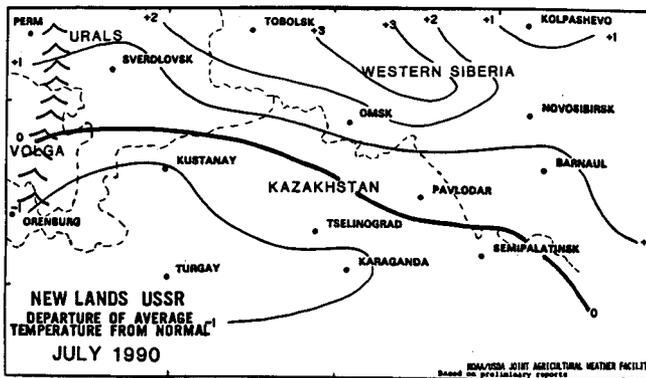
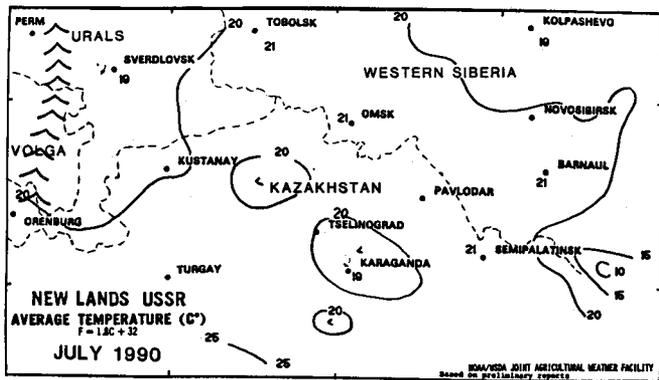
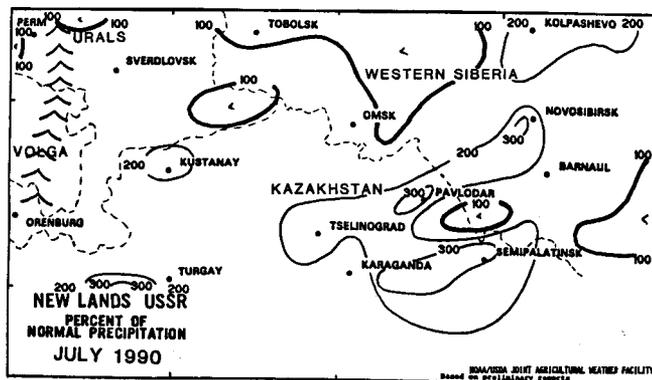
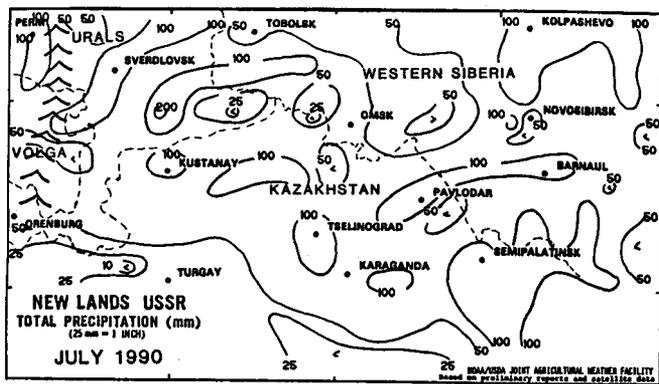


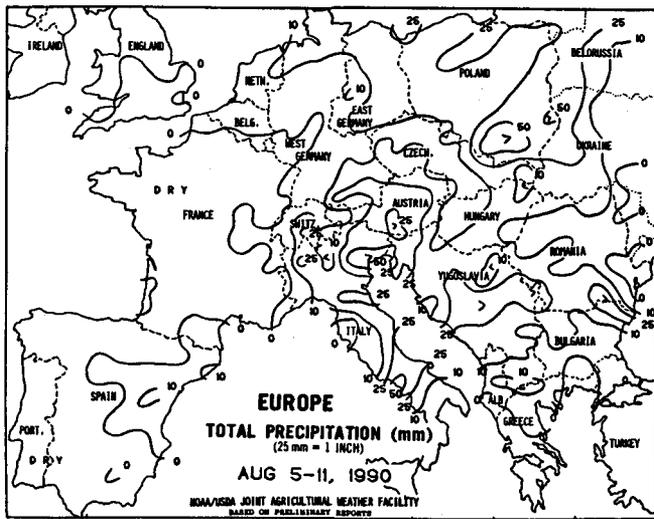


USSR ... Following a period of prolonged rains and unseasonably cool weather in July, welcomed dryness accompanied mild weather in eastern Belorussia, the Central Region, Black Soils Region, and the western Volga. The warm, dry weather in these areas favored crop maturation and allowed the pace of both winter and spring grains harvesting to increase. Rain over the southern Baltic States, western Belorussia, and the extreme western Ukraine continued July's above-normal precipitation pattern. In July, spring grains advanced through reproduction in the north and were filling to maturing in the south. Winter grains progressed through the filling stage in the north, while harvest occurred in the south. Although below-normal July precipitation over most of the Ukraine and North Caucasus helped winter and early spring grain harvests, moisture was limited for corn which advanced through reproduction. Further north, wet weather in the Baltic States, Belorussia, the Central Region, and the Black Soils Region delayed early winter grain harvests, increased the potential for lodging, and slowed the development of both winter and spring grains.

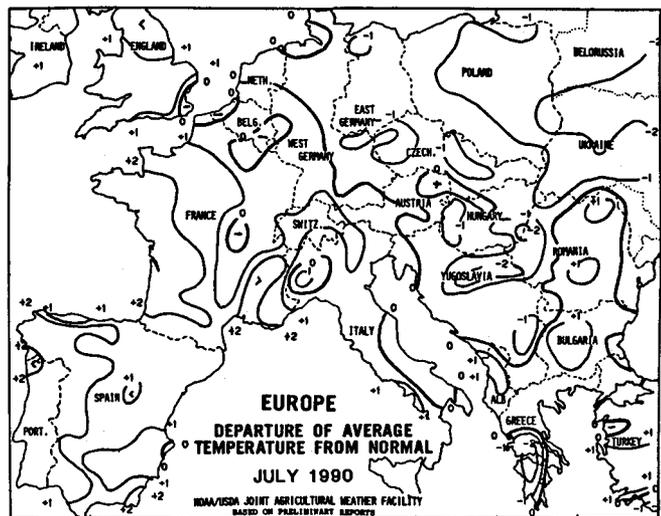
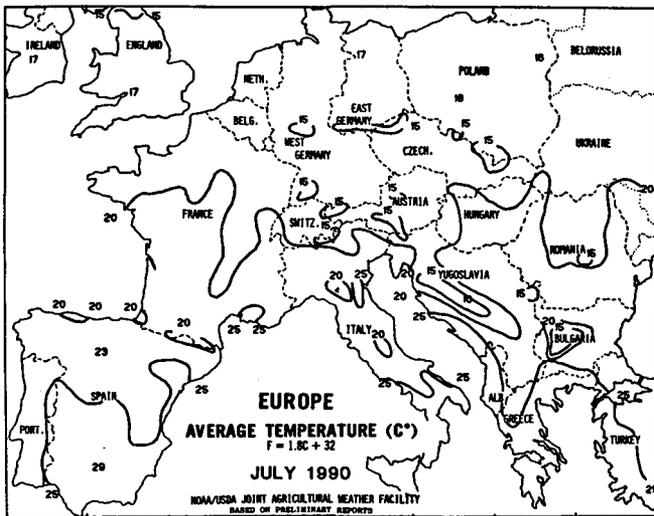
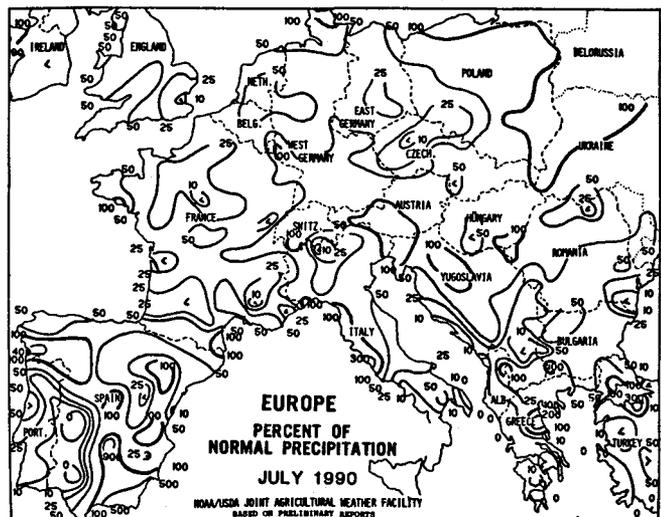
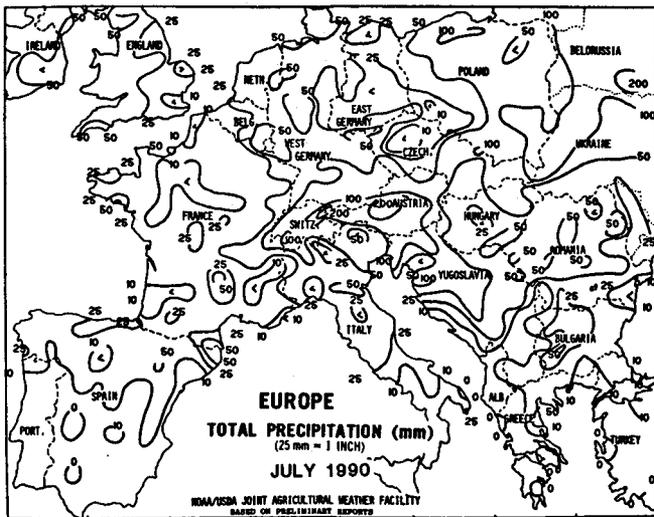


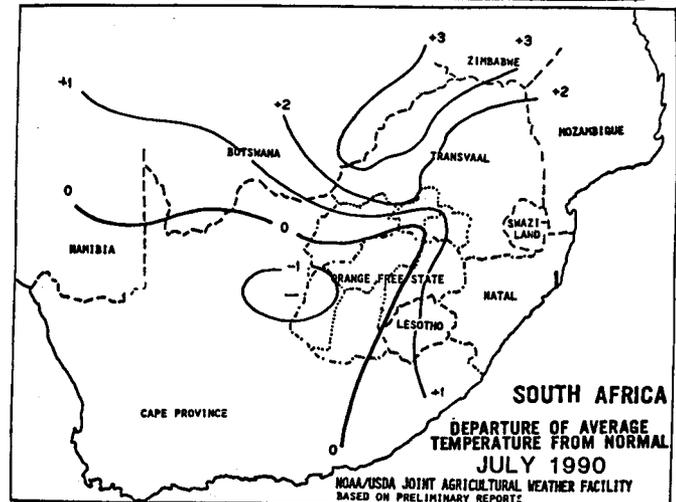
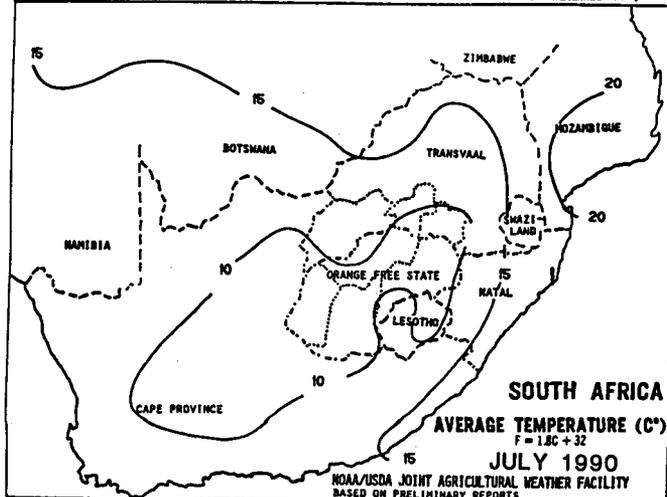
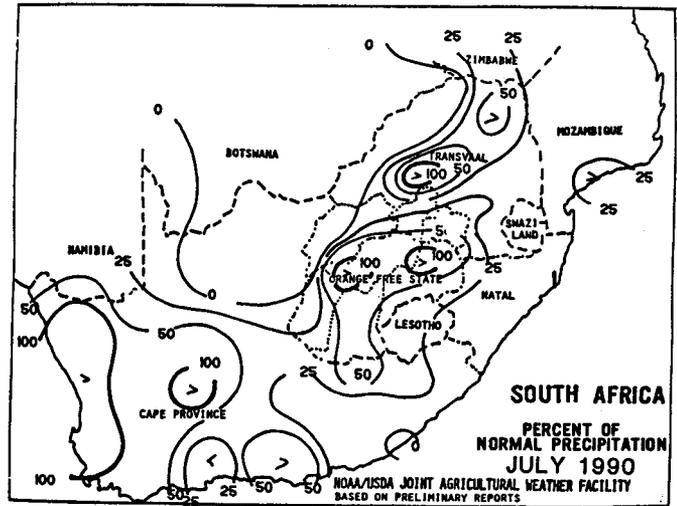
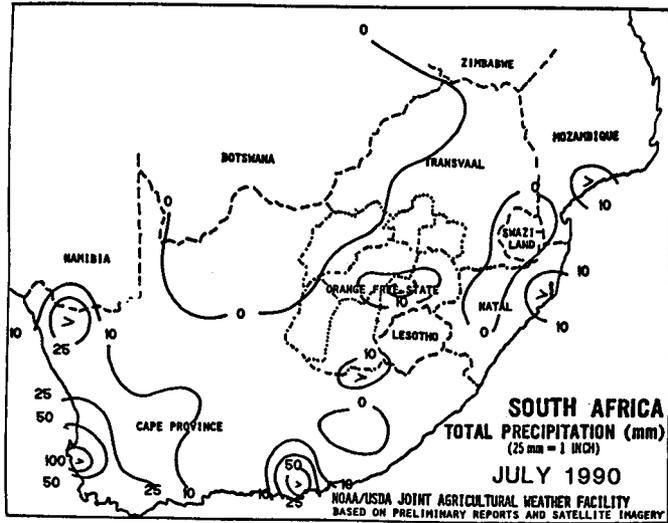
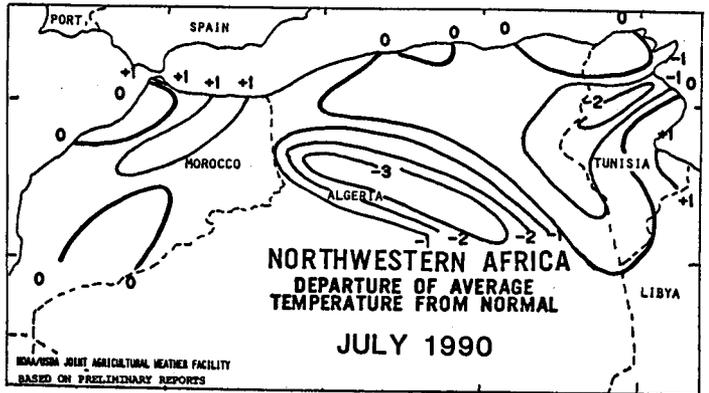
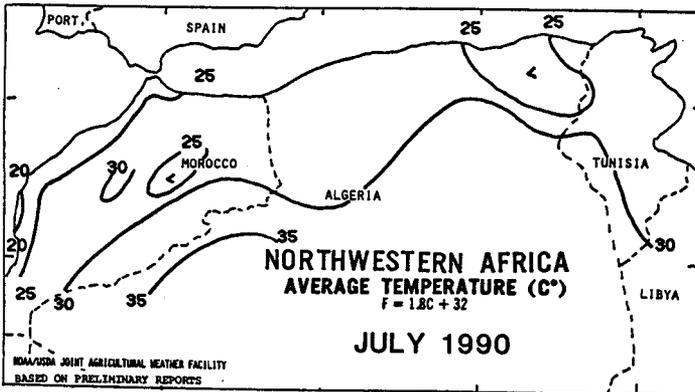
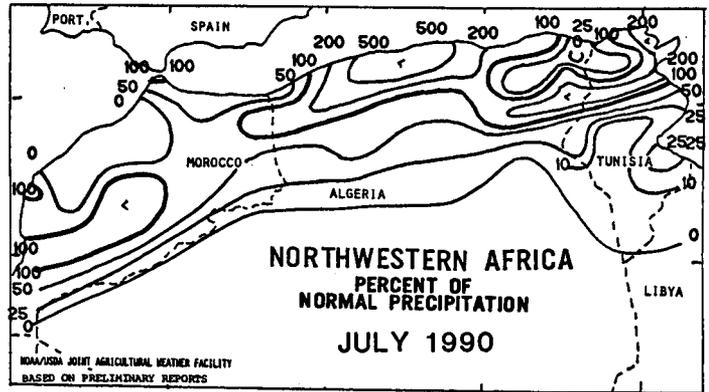
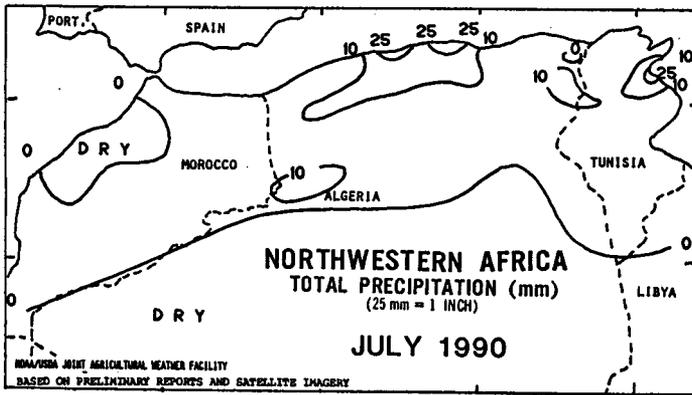
NEW LANDS ... Mild weather accompanied light showers (precipitation generally less than 10mm) over the northern Urals and West Siberia, benefiting spring grains in the filling stage. In contrast, cool weather and intermittent showers (precipitation around 10mm with local amounts in excess of 25mm) covered Kazakhstan, slowing spring grains maturation but causing only brief interruptions in early spring grain harvesting. In July, above-normal precipitation reversed June's unfavorably dry weather pattern in Kazakhstan and West Siberia. Precipitation amounts, ranging from 100 to 300 percent of normal, improved conditions for spring grains which were filling in the south and advancing through reproduction in the north.

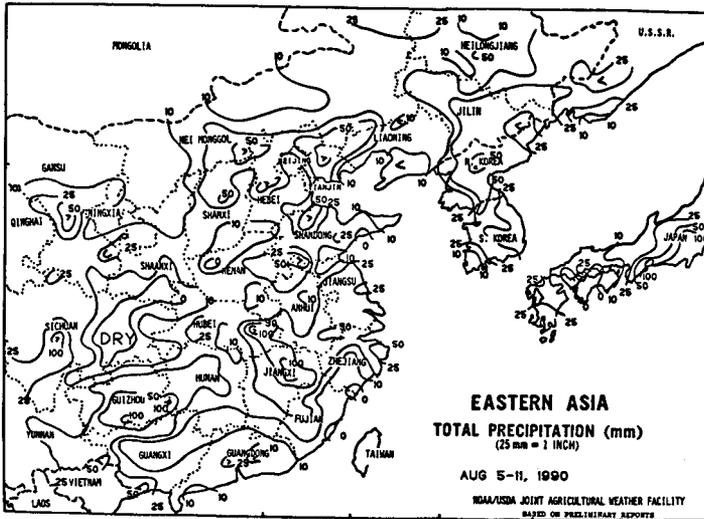




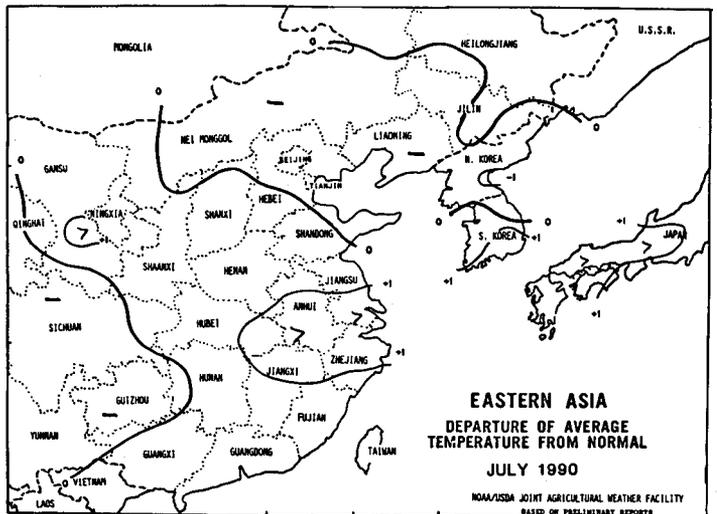
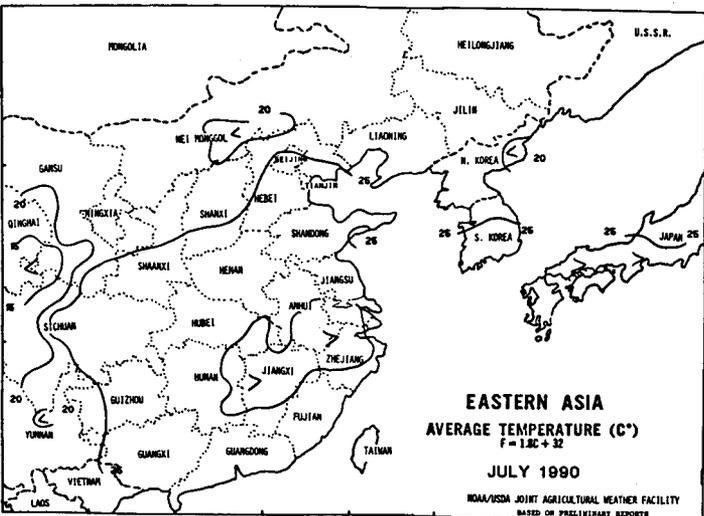
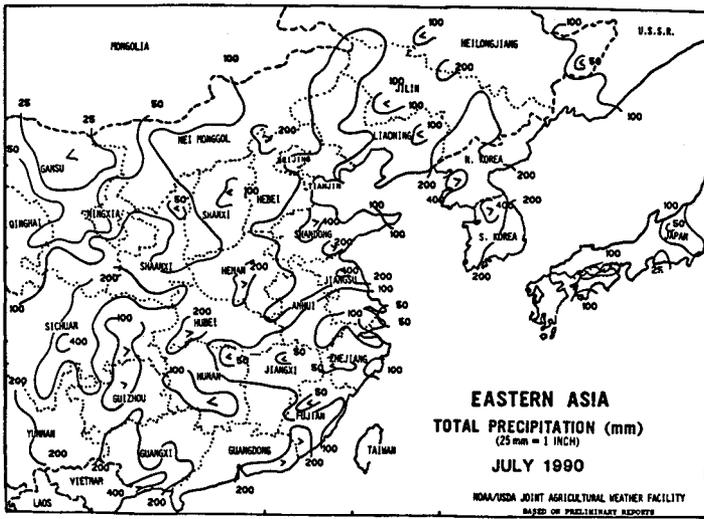
EUROPE ... A cool front brought relief to much of western and northern Europe on the 6th, ending more than 1 week of unseasonable heat (maximum temperatures from 34 to 38 degrees C). Rain (10-25mm) associated with the front benefited filling summer crops from Benelux and West Germany eastward to Poland. Locally heavier rain (25-50mm or more) fell in southwestern Poland. Crop areas of England, France, and Spain remained unfavorably dry, stressing immature crops. July precipitation was below normal across nearly all of Europe, especially in the west, where rainfall was less than 50 percent of normal, continuing a persistent drier-than-normal trend since early spring. In the Balkans, hot (maximum temperatures 33-36 degrees C), dry weather stressed filling summer crops early, followed by beneficial showers (10-40mm) and cooler temperatures on the 9th - 11th. Light scattered showers fell in southern Bulgaria and Greece.



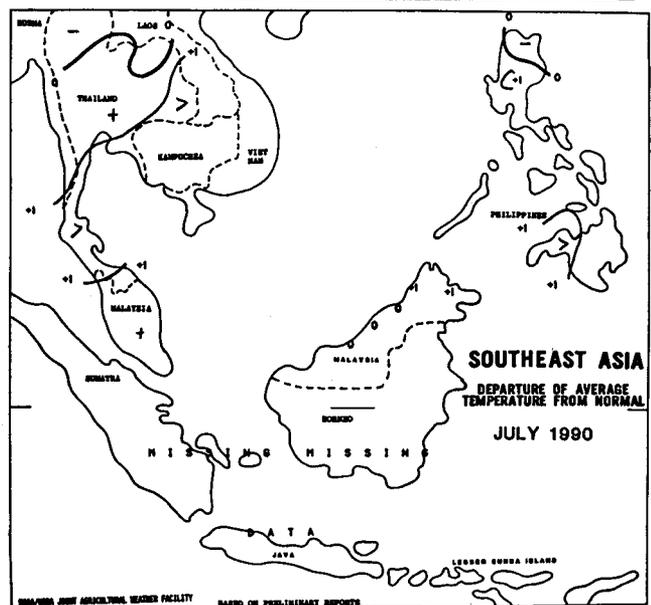
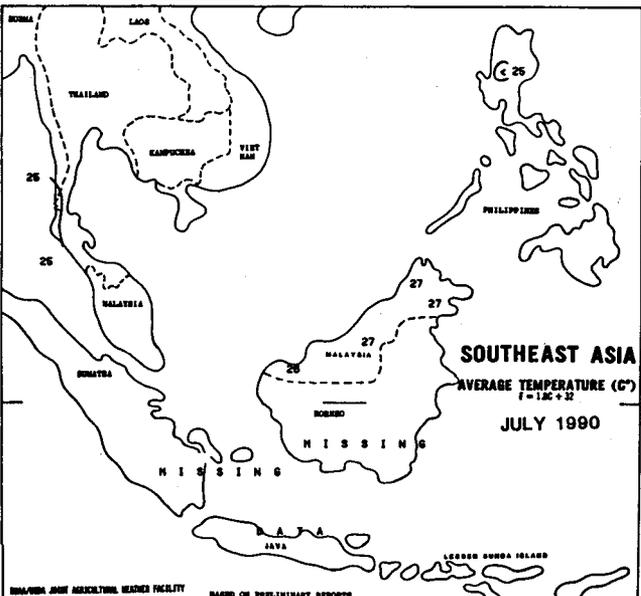
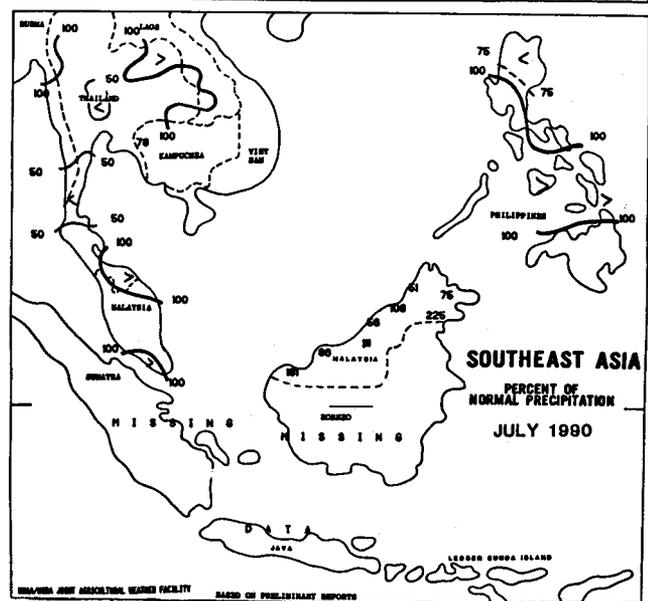
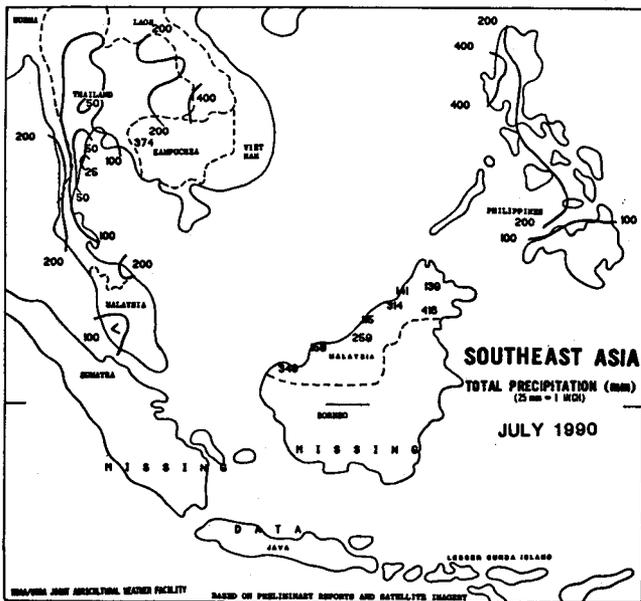
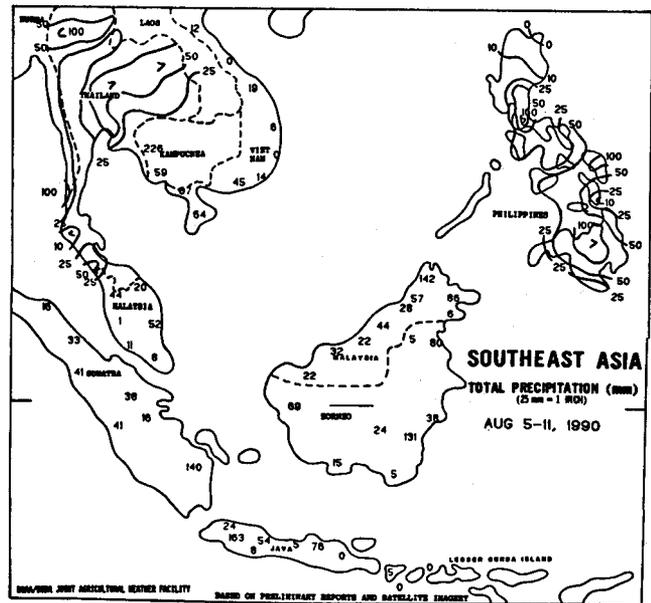


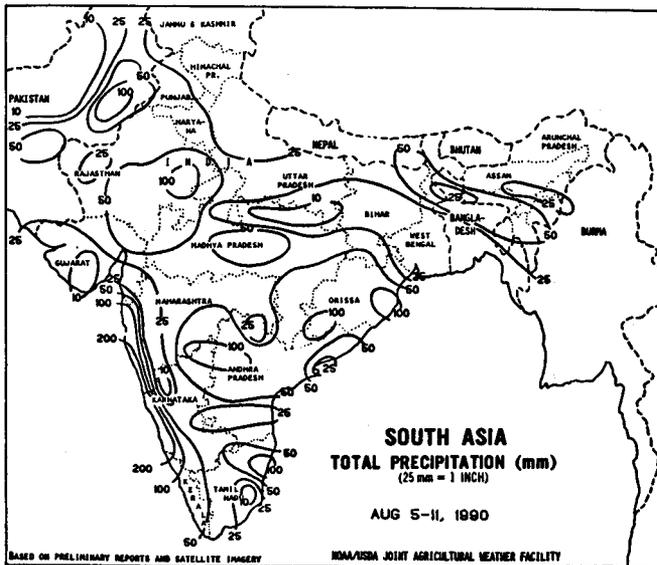


EASTERN ASIA ... Tropical Storm Minona moved across eastern Honshu in Japan on the 9th and 10th, with heavy rains (50-175mm) bringing much needed relief from persistent dryness. Unseasonable heat (maximum temperatures 34-38 degrees C) and dryness stressed single season rice and other summer crops early in the week, following a much drier-than-normal trend in central and southern Japan since late June and early July. In the North China Plain, variable showers kept soil moisture at above-normal levels, producing 5-50mm in the south and 50-120mm in the north. Widespread rain (15-80mm) in Manchuria caused minor delays in spring wheat harvest, but benefited immature summer crops. In the south, hot weather (maximum temperatures 34-37 degrees C) returned to middle sections of the Yangtze Valley, although beneficial tropical showers (5-50mm, with isolated amounts up to 125mm) provided relief by week's end throughout southern China.

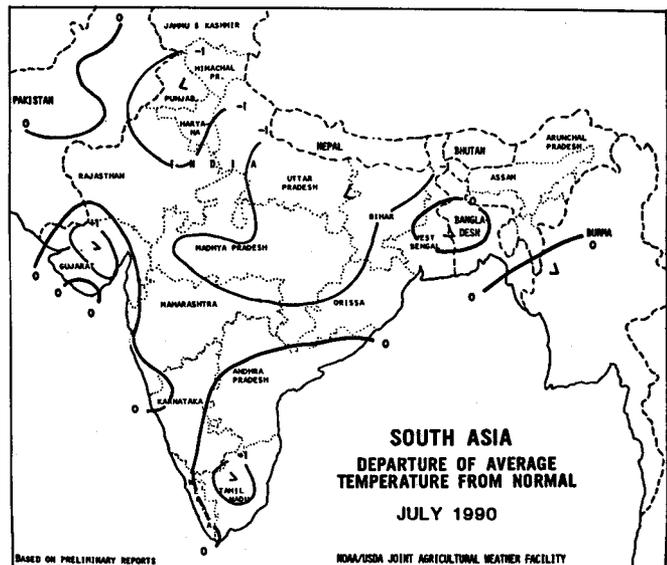
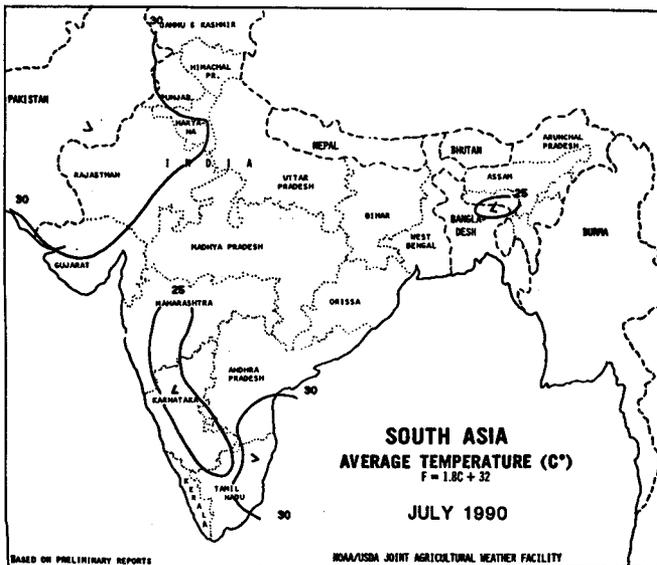
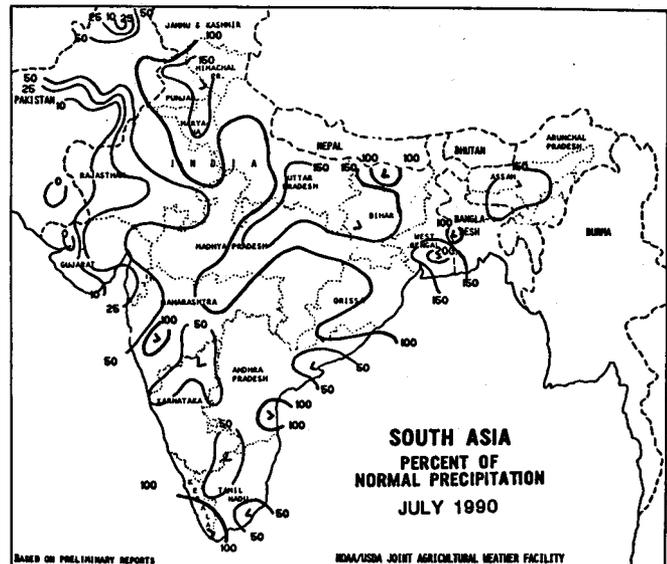
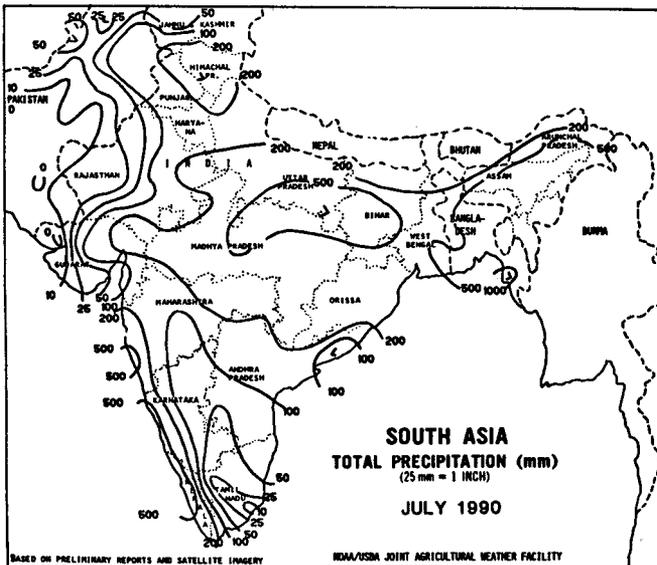


SOUTHEAST ASIA ... Moderate to heavy rain (25-50mm or more) over most grain areas of central Thailand greatly improved moisture reserves for secondary crops. However, pockets of light rain (25mm or less) returned to the Northern Hills region. Temperatures across Thailand averaged 1-2 degrees C above normal, favoring maturing grains. During July, drier and warmer-than-normal weather covered most northern and central rice areas, favoring maturation but reducing moisture reserves for secondary plantings. In the Philippines, rainfall was highly variable, with large sections of Luzon and the west-central islands reporting 25mm or less. Heavier rain (25-50mm or more) covered most areas from southeastern Luzon southward to Mindanao. In July, rainfall totaled near normal over most areas, except northern Luzon and southern Mindanao which trended dry. Tropical Storm Tasha caused local flooding in western Luzon late in the month.

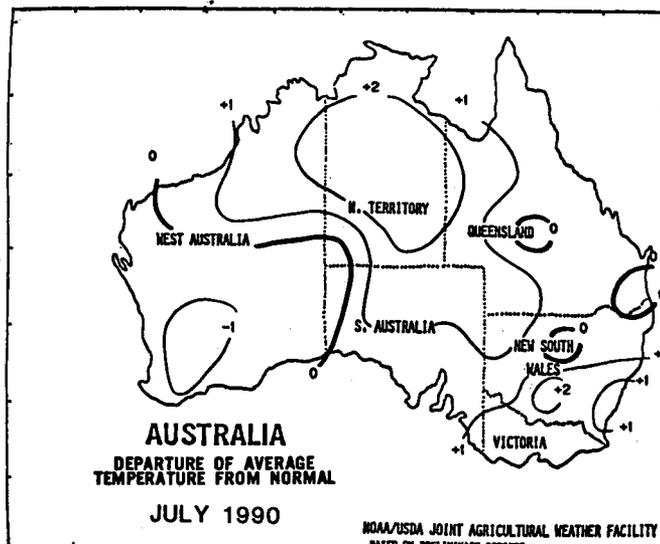
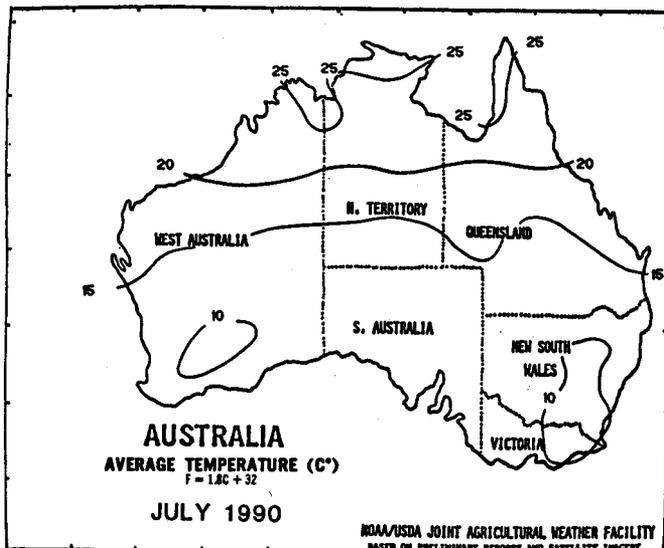
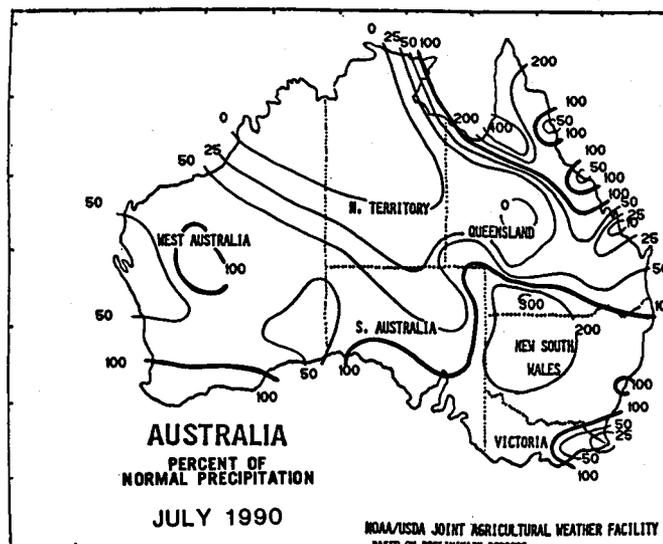
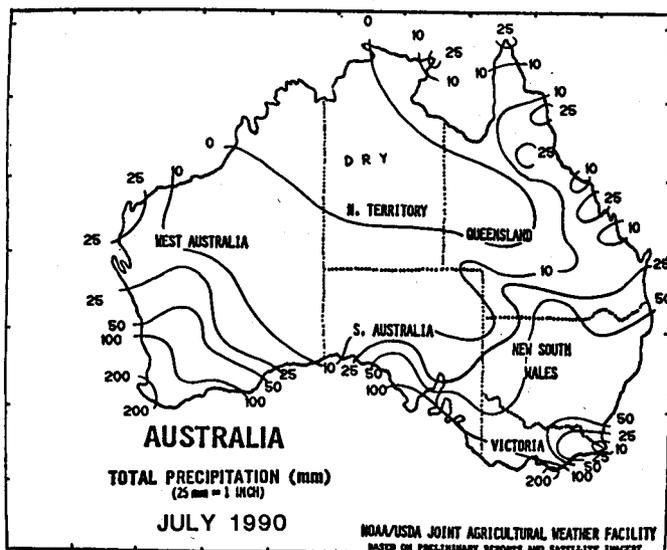
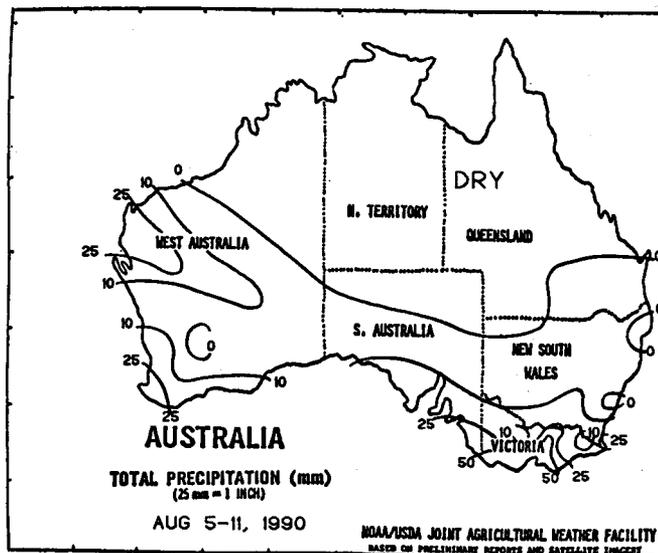


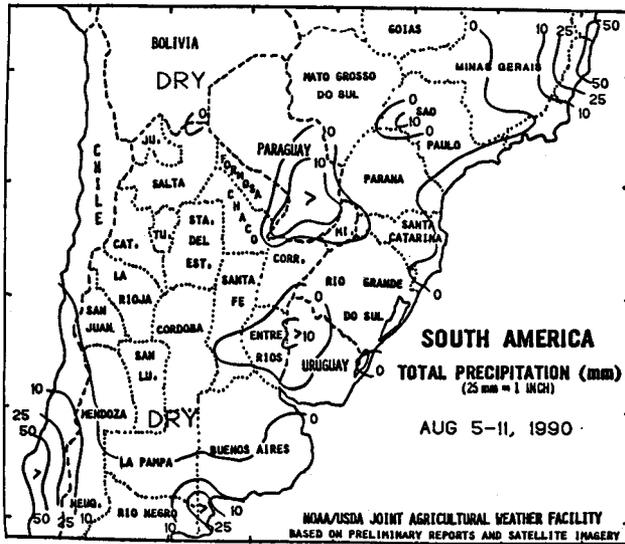


SOUTH ASIA ... Much needed, moderate to heavy rain (25-50mm or more) benefited summer crops in or nearing reproduction across much of the southern interior, as well as local areas in eastern Gujarat. Minimal rain (10mm or less), however, persisted in western Gujarat's groundnut region. Variable showers (25-100mm or more) continued elsewhere, although amounts in the eastern rice areas tapered off from recent weeks, alleviating flooding conditions somewhat. In July, unseasonably dry weather limited moisture for vegetative to reproductive summer crops over much of the southern interior and the primary groundnut regions of the southern Gujarat, where planting delays likely occurred. Temperatures, however, averaged near normal, although periods of hot weather persisted along the southeast coast. In contrast, near- to above-normal rainfall and mild temperatures maintained favorable growing conditions elsewhere, with local flooding continuing in the primary rice areas from Uttar Pradesh eastward.

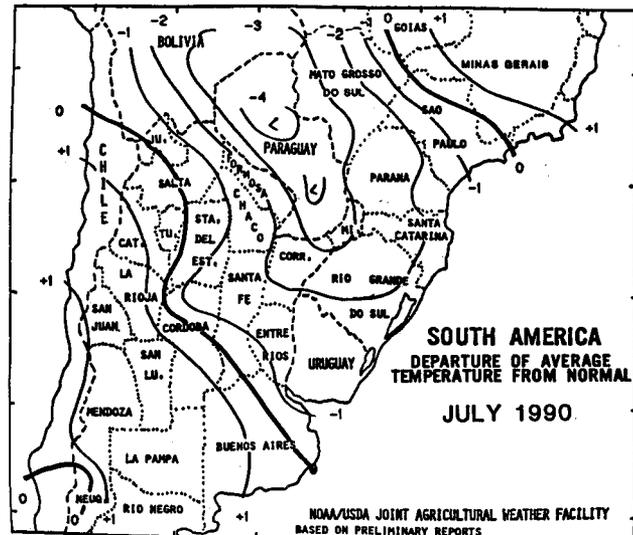
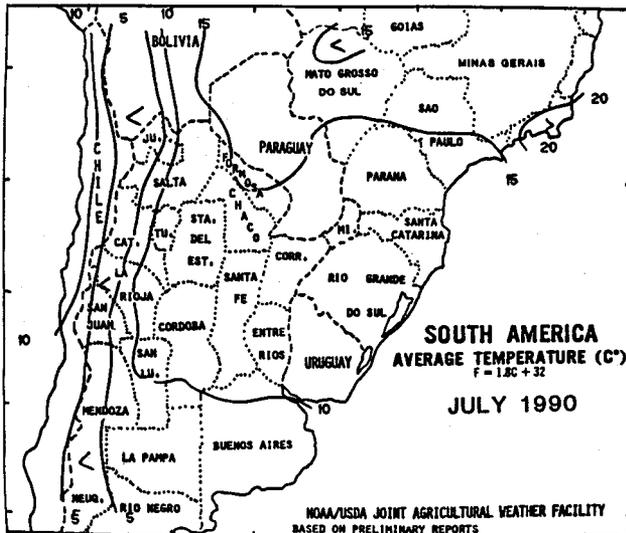
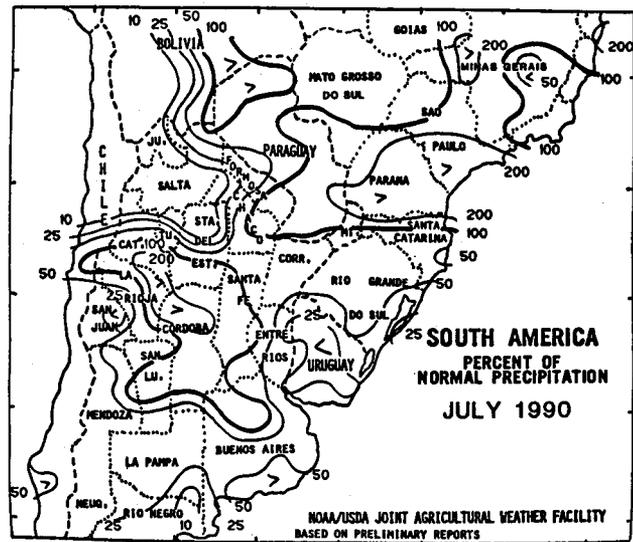
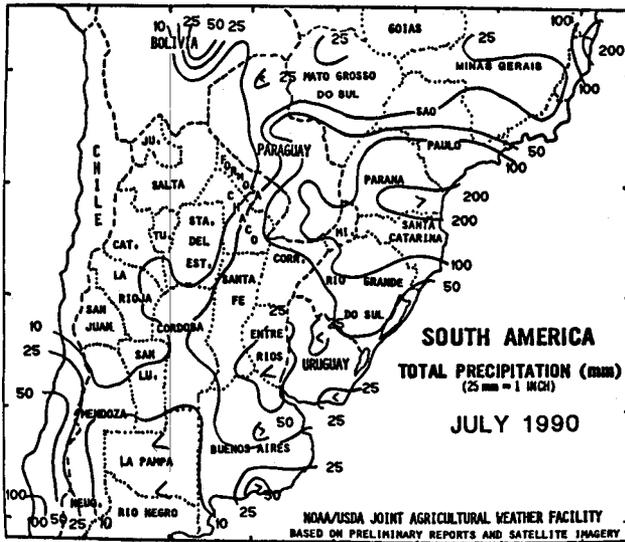


AUSTRALIA ... Occasional rain (5-23mm) maintained favorable soil moisture for winter crops in South Australia, Victoria, and New South Wales. A late-week frontal system brought moderate rain (10-34mm) to much of southern Western Australia. In Queensland, dry weather favored sugarcane harvest in the northeast and seasonably warm weather in central crop areas favored vegetative growth of winter grains. In July, above-normal precipitation greatly improved soil moisture for winter grains across the south, following earlier dryness and planting delays.

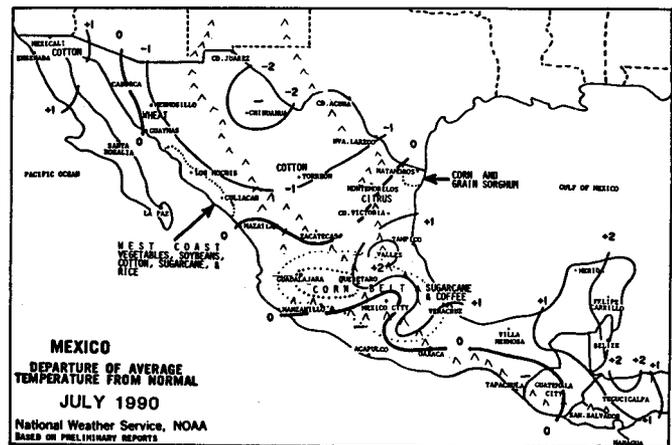
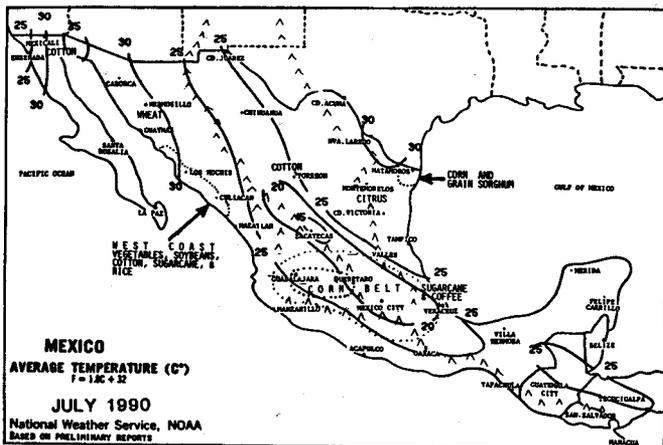
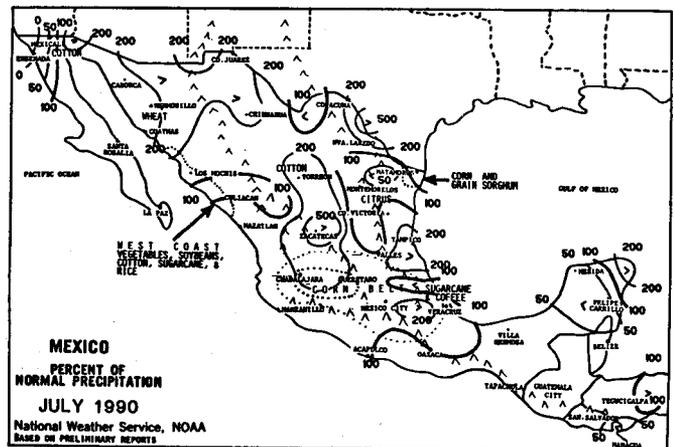
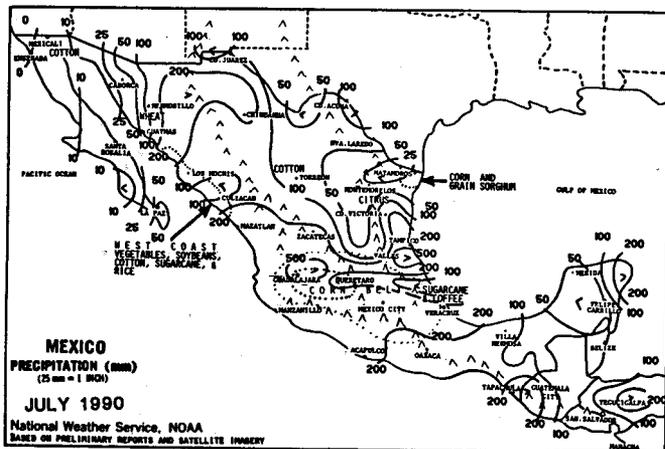
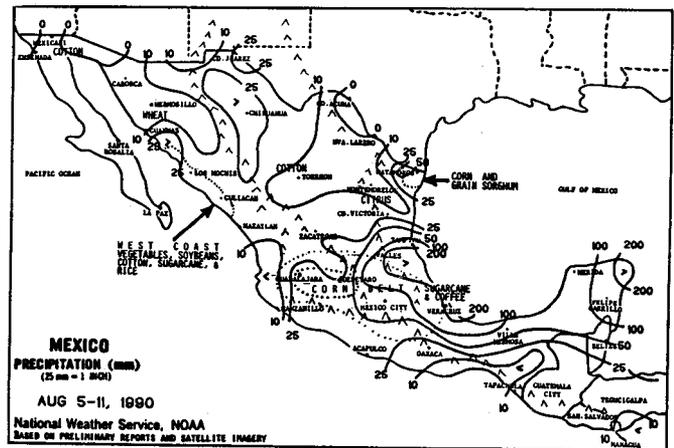


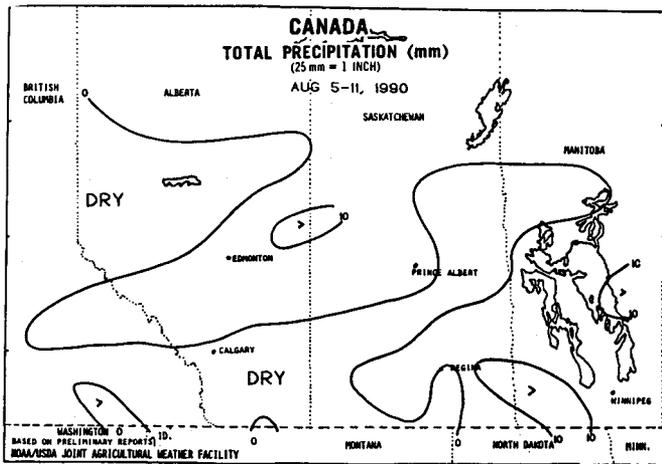


SOUTH AMERICA ... In Argentina, mostly dry and mild weather prevailed throughout the primary wheat areas. Scattered light showers produced 1-4mm of weekly rainfall in southern Santa Fe and Entre Rios, and 1-8mm in southern Buenos Aires. Average weekly temperatures were 7-8 degrees C above normal, inducing early wheat growth. July rainfall ranged from near to above normal in Cordoba, western Santa Fe, and northwestern Buenos Aires, to below normal in southeastern Santa Fe, southern Buenos Aires, and La Pampa. In south-central Brazil, light showers (1-4mm) were confined to southeastern Minas Gerais, with only isolated showers elsewhere. Above-normal July rainfall in wheat areas of Parana and northern Rio Grande do Sul provided ample moisture for crop growth. A cold air episode late in the month was unfavorable for wheat in or nearing heading in Parana.

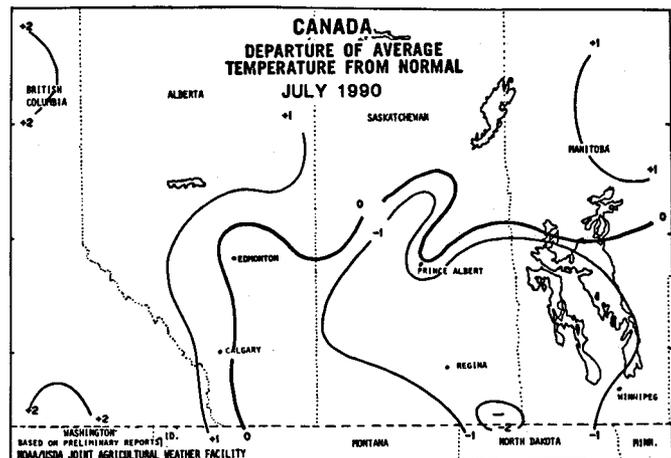
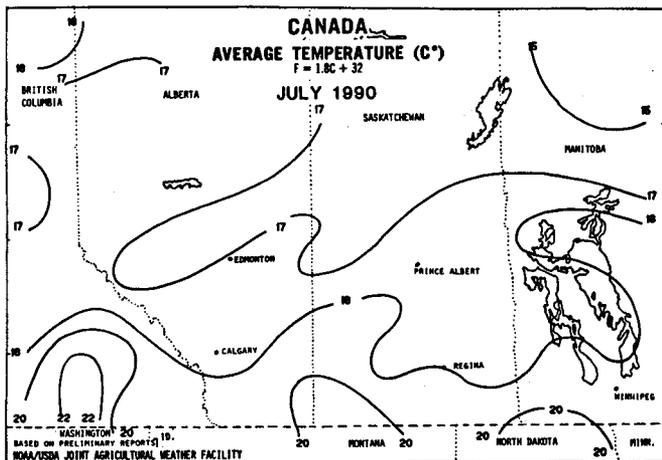
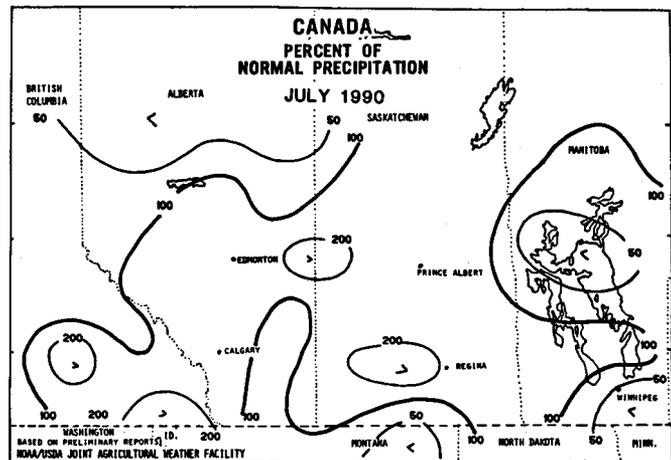
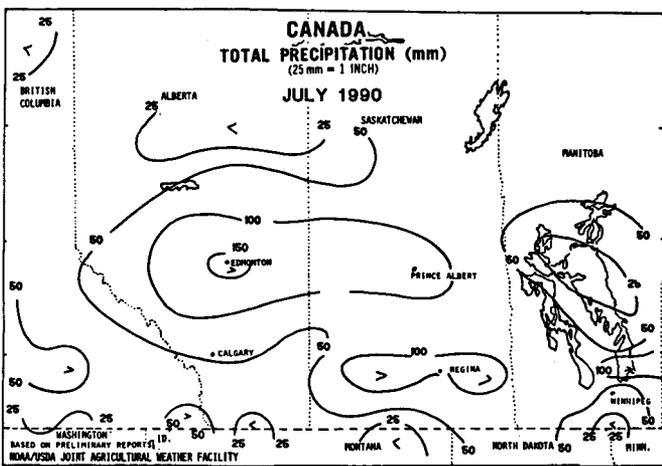


MEXICO ... Beneficial rain fell over most crop areas, especially in the northeast where 10-35mm of weekly rainfall eased recent dryness. Tropical Storm Diana soaked the Yucatan peninsula. The storm intensified into Hurricane Diana in the Gulf of Mexico and hit the east-central coast, producing 100-200mm or more of heavy rain in the eastern Plateau corn belt. Adequate moisture continues to maintain favorable growing conditions for immature crops in the Southern Plateau and west coast farming region. Above-average July rainfall in nearly all areas favored summer crops and helped irrigation reservoirs in the northwest. Below-normal July rainfall was confined mostly to the northeast.





CANADA ... Rainfall of 8-14mm in local crop regions of southeastern Saskatchewan and Manitoba benefited immature crops. Mostly dry and warmer-than-normal weather elsewhere hastened crop growth. On the 6th, an outbreak of hot weather (high temperatures of 35-38 degrees C), accompanied by winds of 10-20 knots, covered large areas of western Saskatchewan and Alberta, causing some stress on immature grains and oilseeds. In July, near- to above-normal rainfall covered nearly all primary crop regions, maintaining generally favorable growing conditions for vegetative to filling grains and oilseeds. The rains in the southwest fell late in the month and were timely for filling spring wheat. In contrast, a drying trend developed over parts of Manitoba, drying fields following June's wet weather.



(Continued from front cover)
of 100° F weather, while **Sacramento, CA** had a record 7 straight days with a high of 105° F or above. In contrast, abnormally cool air remained over the **central section of the Nation** as numerous low temperature records for the date were set early in the week in the **Plains** and **Mississippi Valley**.

(Continued from p. 11)

PASTURES AND LIVESTOCK: Pastures were in mostly good to fair condition from the Rocky Mountains through the central Plains and Corn Belt. Mostly fair conditions prevailed in the Pacific Northwest, Texas, and the Northeast. Pastures were generally improved in the Southeast. Livestock was in good condition in Florida, Texas, and California. In Kansas, ranchers were culling calves and sending cows and calves to market.

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good. Livestock mostly good. Planting snap beans, cucumbers. Harvesting tomatoes. Irrigating fall vegetables.

WASHINGTON: Temperatures 1° below normal to 10° above normal, east; 2 to 7° above normal west. Precipitation none to 0.03 in. east; none to 0.01 in. west.

Days suitable for fieldwork 7.0. Soil moisture 75% short, 25% adequate. Range, pasture 1% very poor, 25% poor, 42% fair, 32% good. Hay, other roughage 15% short, 84% adequate, 1% surplus. Winter wheat 55% fair, 45% good. Winter wheat harvested 73%, 69% 1989, 67% avg. Spring wheat harvested 50%, 42% 1989, 51% avg. Barley harvested 59%, 61% 1989, 62% avg. Alfalfa hay, 3rd cutting, 24%, 23% 1989, 20% avg. Potatoes harvested 12%, 11% 1989, 9% avg. Hot, dry weather allowed the small grain harvest to progress. Yields have varied; some areas suffered moisture stress which caused pinching, light test weights. Pear harvest began this week, other fruit, vegetable harvests continued.

WEST VIRGINIA: Temperature 69°, 2 to 4° below normal. Extremes 46°; 89°. Precipitation 0.32 in., 0.31 to 0.78 in. below normal.

Days suitable for fieldwork 5.4. Soil moisture 40% short, 60% adequate. Pasture 23% fair, 74% good, 3% excellent. Cattle, sheep good. Wheat good, 60% harvested. Oats good; 86% ripe, 75% harvested. Corn good; 75% silked, 47% dough. Hay good; second cutting 32% complete, third cutting 4% complete. Apples, peaches poor. Tobacco good, 33% topped. Farm activities: Making hay, clipping pastures, small grain harvesting, topping tobacco.

WISCONSIN: Temperature 66°, 4° below normal. Extremes 33°; 86°. Precipitation 0.10 to 0.70 in.

Days suitable for fieldwork 6.7. Soil moisture 30% short, 67% adequate, 3% surplus. Pasture 7% poor, 19% fair, 59% good, 15% excellent. General condition of crops 1% poor, 10% fair, 86% good, 3% excellent. Soybean 85% of normal. Corn 1% very poor, 1% poor, 14% fair, 80% good, 4% excellent. Corn 86% silked, 87% 1989, 90% avg. Corn 13% in dough, 21% 1989, 36% avg. Second cut hay 82% completed, 80% 1989, 80% avg. Third cut hay 11% completed, 6% 1989, 10% avg. Oats 60% harvested, 59% 1989, 69% avg. Winter wheat 85% harvested, 85% 1989, 91% avg.

WYOMING: Temperatures mostly above normal, southeast, south central below normal. Precipitation mostly below normal, southeast above normal.

Days suitable for fieldwork 6.0. Topsoil 46% short, 54% adequate. Winter wheat 20% mature, 15% 1989, 15% avg.; 80% harvested, 85% 1989, 85% avg. Barley 10% turning color, 15% 1989; 40% mature, 40% 1989; 50% harvested, 45% 1989. Spring wheat 20% turning color, 5% 1989, 15% avg.; 50% mature, 55% 1989, 40% avg.; 30% harvested, 40% 1989, 45% avg. Oats 55% turning color, 20% 1989, 35% mature, 45% 1989; 10% harvested, 35% 1989. Dry beans 75% in bloom, 85% 1989, 80% avg.; 50% setting pods, 75% 1989, 75% avg.; small amount leaves turning color, 10% 1989. Corn 90% tasseled, 70% 1989, 80% avg.; 55% silked, 60% 1989, 60% avg.; 20% milk, 45% 1989, 25% avg.; small amount dough, 10% 1989. Alfalfa second cutting 40% complete, 50% 1989, 45% avg. Other hay 85% harvested, 75% 1989, 80% avg. Livestock to be wintered: cattle 100% of 1989, sheep 100% of 1989. Ranges, pastures 15% poor, 75% good, 10% excellent. Stockwater 35% short, 65% adequate.

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