

WEEKLY WEATHER AND CROP BULLETIN

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

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

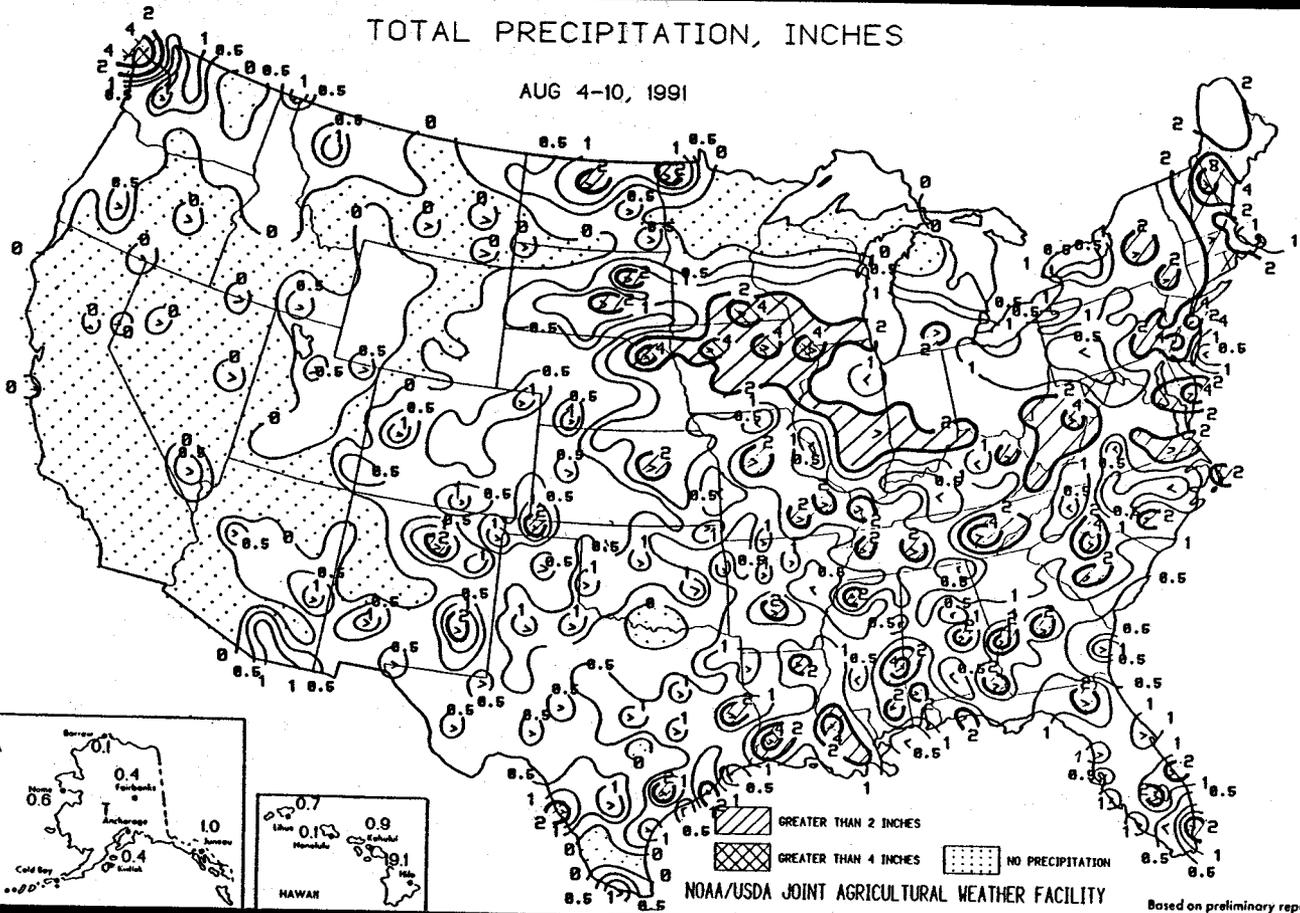
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August 13, 1991

TOTAL PRECIPITATION, INCHES

AUG 4-10, 1991



NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY

Based on preliminary reports

HIGHLIGHTS

August 4 - 10, 1991

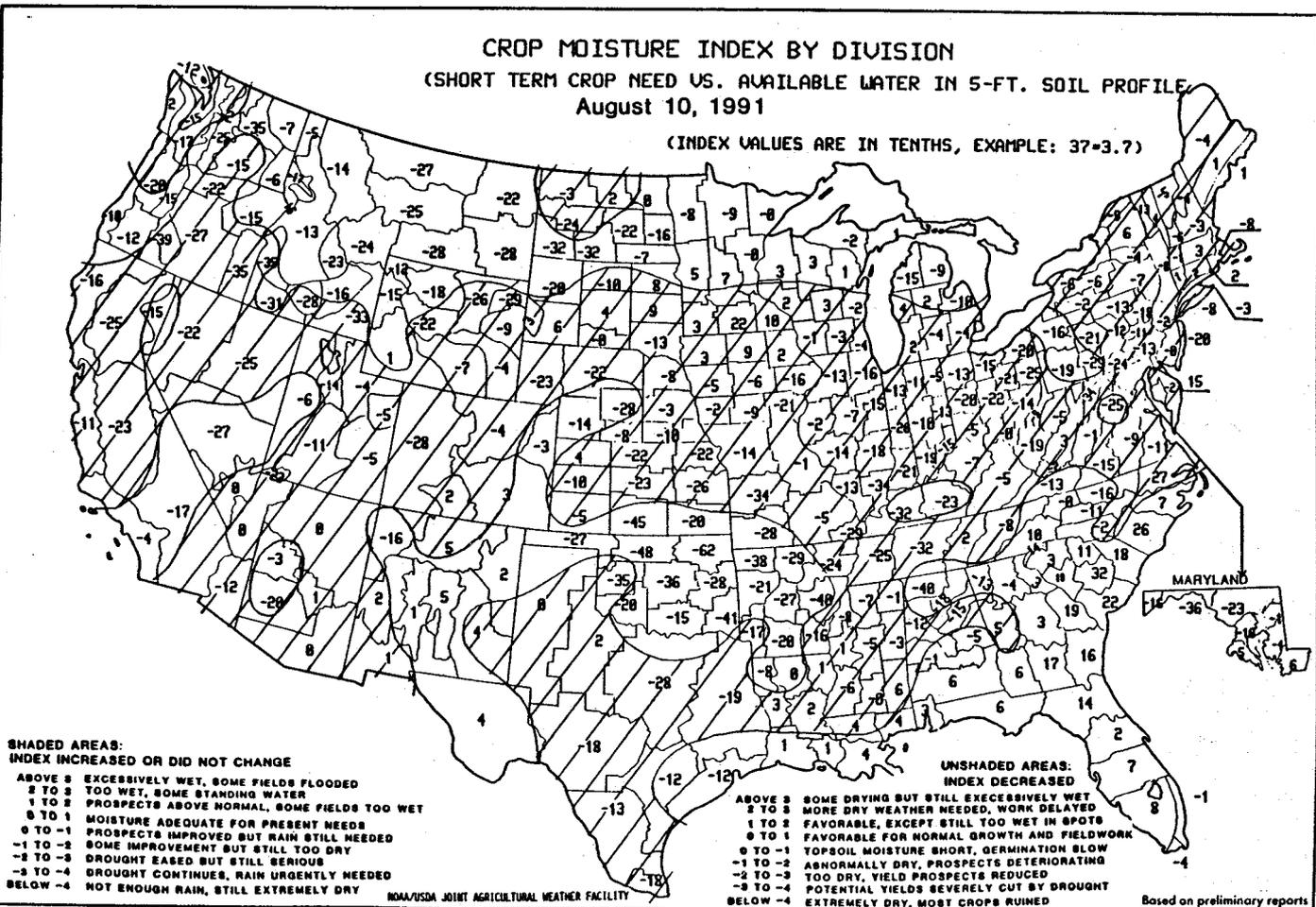
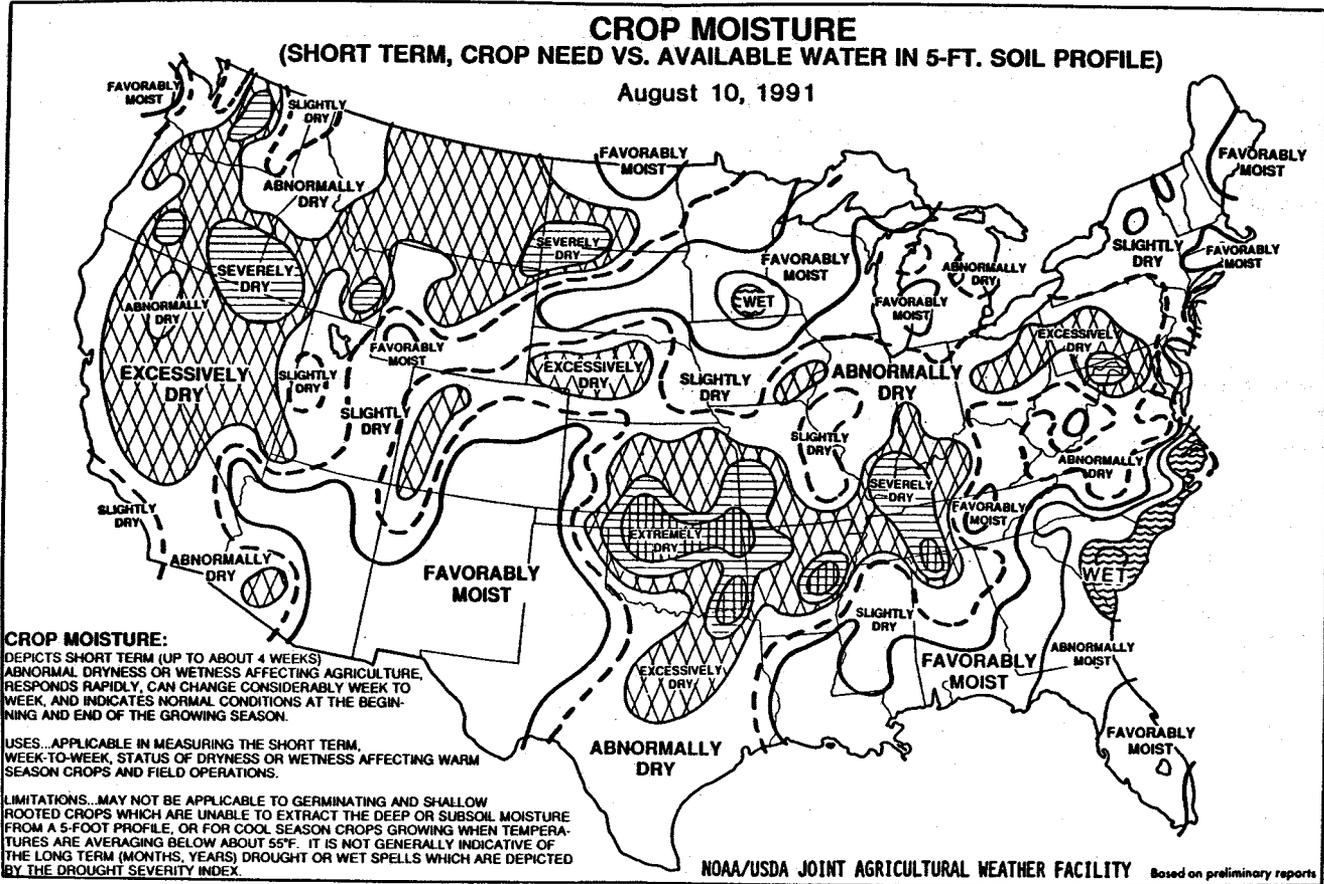
A wavering frontal boundary dropped much needed rain in the **Midwest** before sagging southward. A variety of weather was observed in the **West**, including heavy rainfall and record warmth. The week began quietly, as heavy rain departed **New England** and typical scattered storms peppered the **Southeast, Southwest**, and a band from the **Great Basin** to the **Corn Belt**. Flash flooding was reported in parts of **Utah** and **Colorado**. More extensive, long-term flooding plagued **northern Florida**, where daily rains have fallen since mid-June. Near-record heat, accompanied by staggering humidity, cooked the **Southeast** and **southern Plains**. At midweek, thunderstorms became better organized along the front in the **upper Mississippi Valley** and the **Corn Belt**. Wednesday storms deluged **northeastern Nebraska** with up to 7 inches of rain. **Corn Belt** weekly rainfall topped an inch in all but

(Continued to p. 19)

Contents

Page

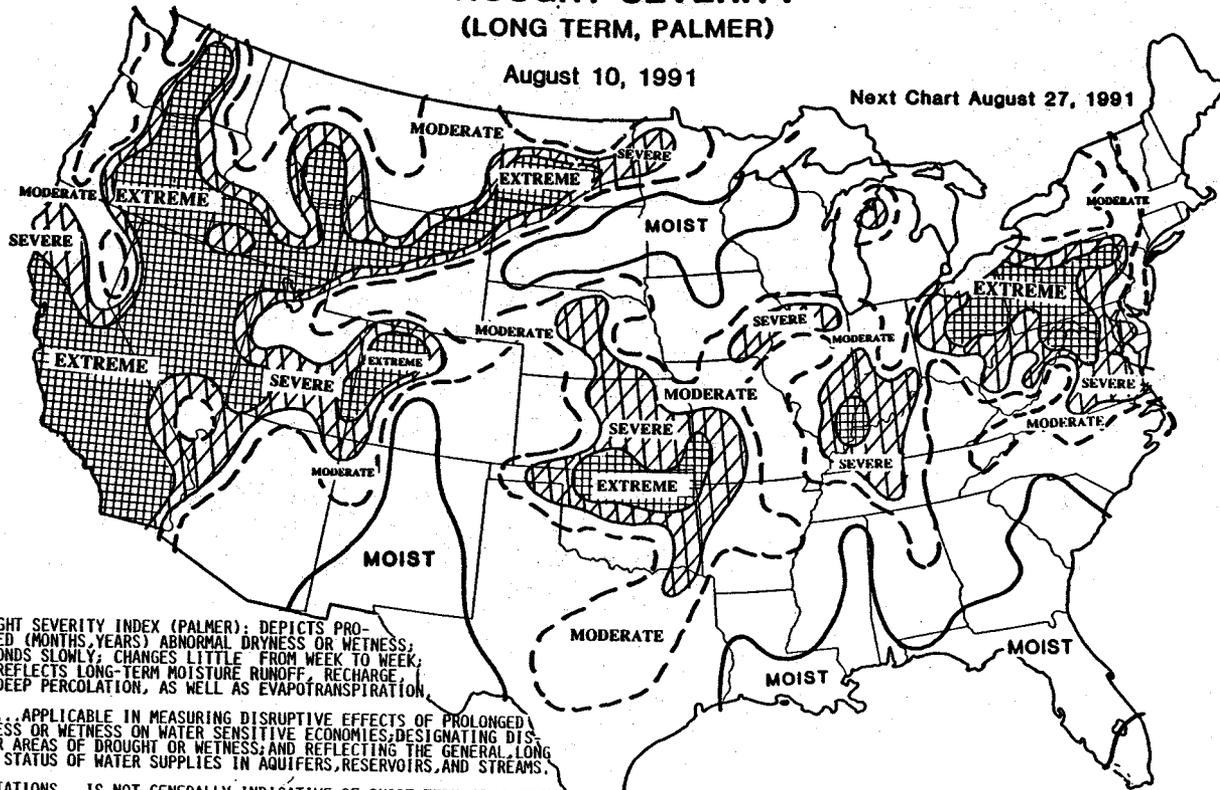
Highlights & Total Precipitation Map	1
Crop Moisture Maps	2
Palmer Drought Maps	3
Precipitation Needed to End Drought & Temperature Departure Maps	4
Total Growing Degree Days & Departure Maps	5
National Weather Data for Selected Cities	6
National Agricultural Summary	9
Crop Progress and Condition Tables	10
USDA's First Corn and Soybean Forecasts	12
State Summaries of Weather and Agriculture	13
International Weather and Crop Summary & July Precipitation and Temperature Maps	20
Subscription and Mailing Permit Information & Extreme Maximum Temperature Map	32



DROUGHT SEVERITY (LONG TERM, PALMER)

August 10, 1991

Next Chart August 27, 1991



DROUGHT SEVERITY INDEX (PALMER): DEPICTS PROLONGED (MONTHS/YEARS) ABNORMAL DRYNESS OR WETNESS; RESPONDS SLOWLY; CHANGES LITTLE FROM WEEK TO WEEK; AND REFLECTS LONG-TERM MOISTURE RUNOFF, RECHARGE, AND DEEP PERCOLATION, AS WELL AS EVAPOTRANSPIRATION.

USES... APPLICABLE IN MEASURING DISRUPTIVE EFFECTS OF PROLONGED DRYNESS OR WETNESS ON WATER SENSITIVE ECONOMIES; DESIGNATING DISTASTER AREAS OF DROUGHT OR WETNESS; AND REFLECTING THE LONG TERM STATUS OF WATER SUPPLIES IN AQUIFERS, RESERVOIRS, AND STREAMS.

LIMITATIONS... IS NOT GENERALLY INDICATIVE OF SHORT-TERM (FEW WEEKS) STATUS OF DROUGHT OR WETNESS SUCH AS FREQUENTLY AFFECTS CROPS AND FIELD OPERATIONS (THIS IS INDICATED BY THE CROP MOISTURE INDEX).

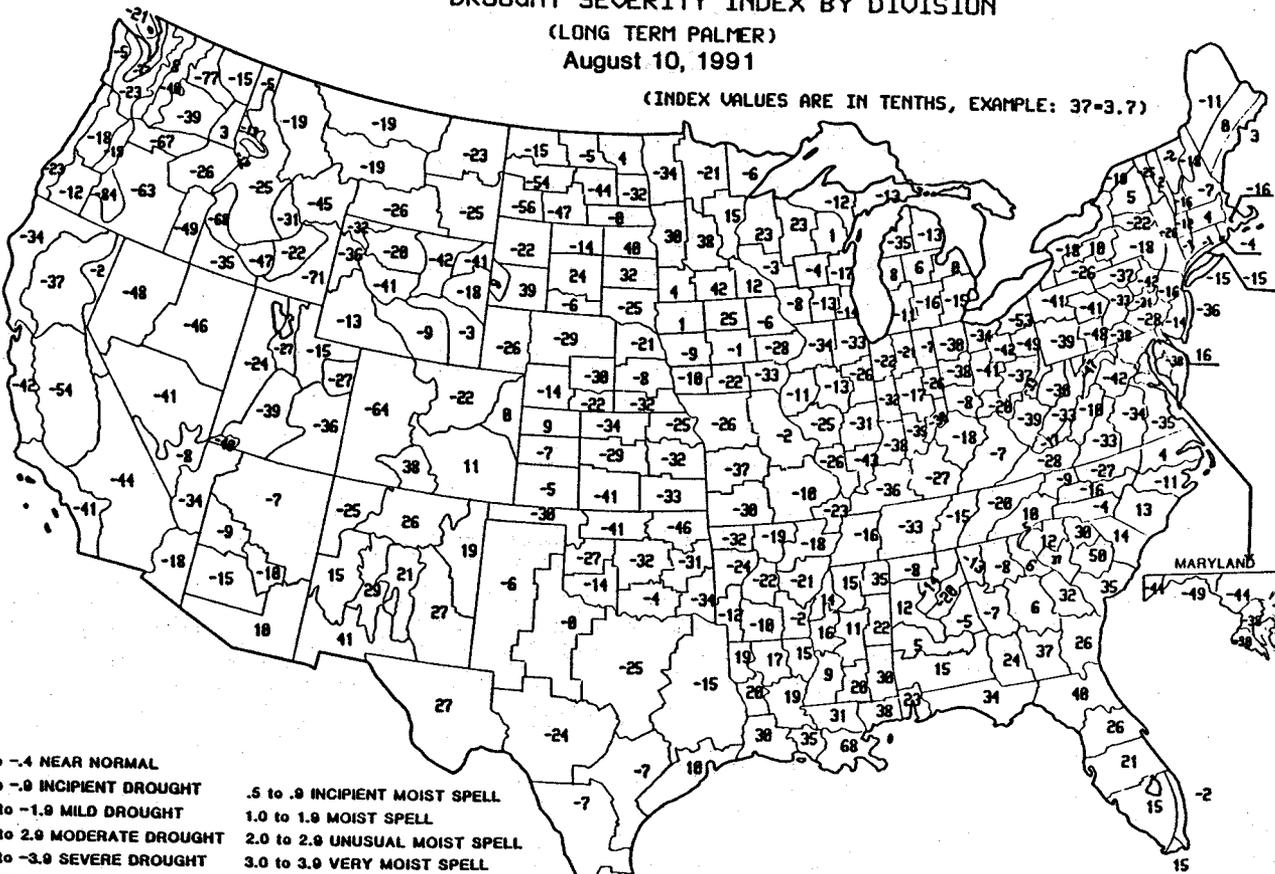
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY

Based on preliminary reports

DROUGHT SEVERITY INDEX BY DIVISION (LONG TERM PALMER)

August 10, 1991

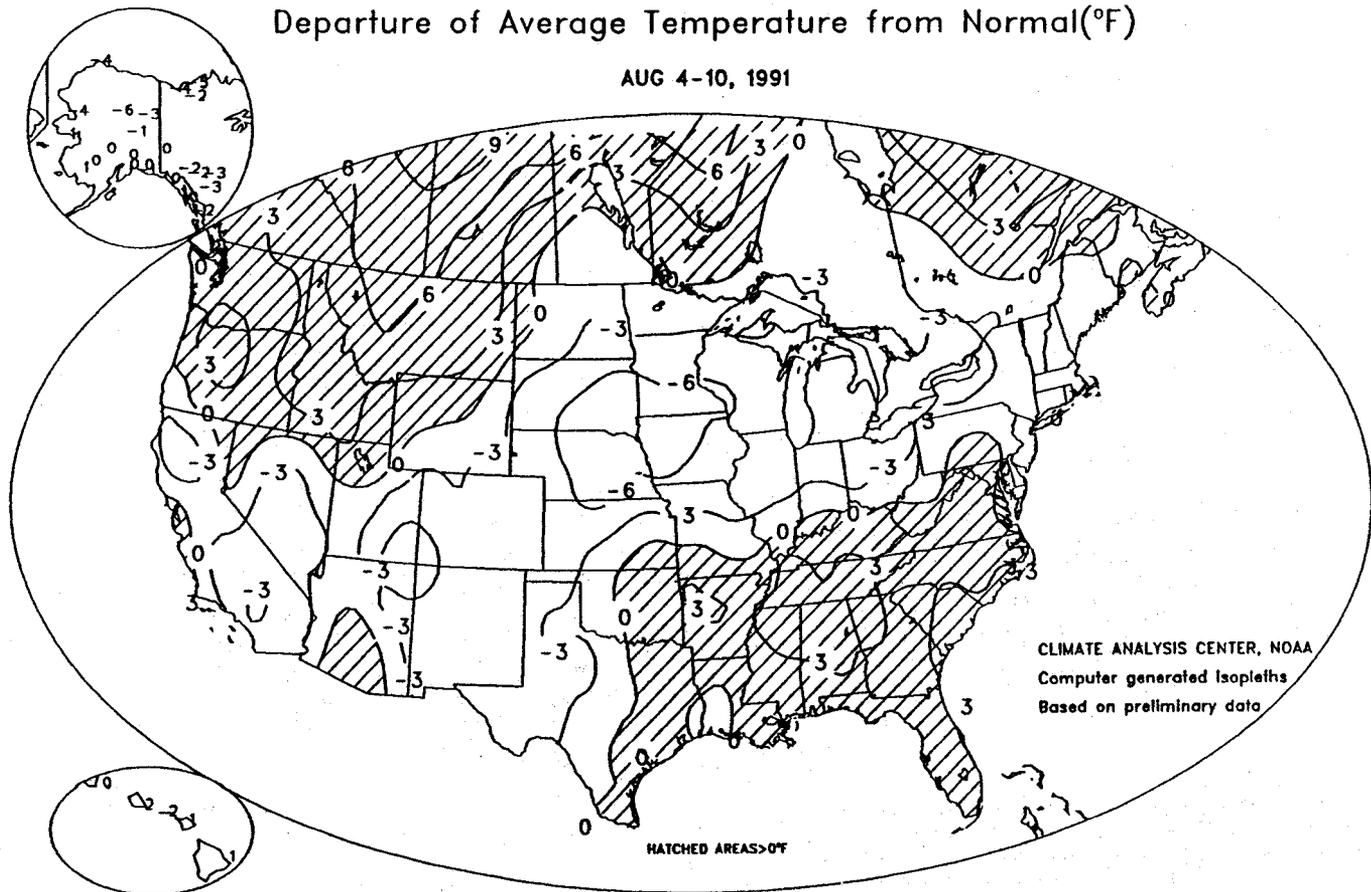
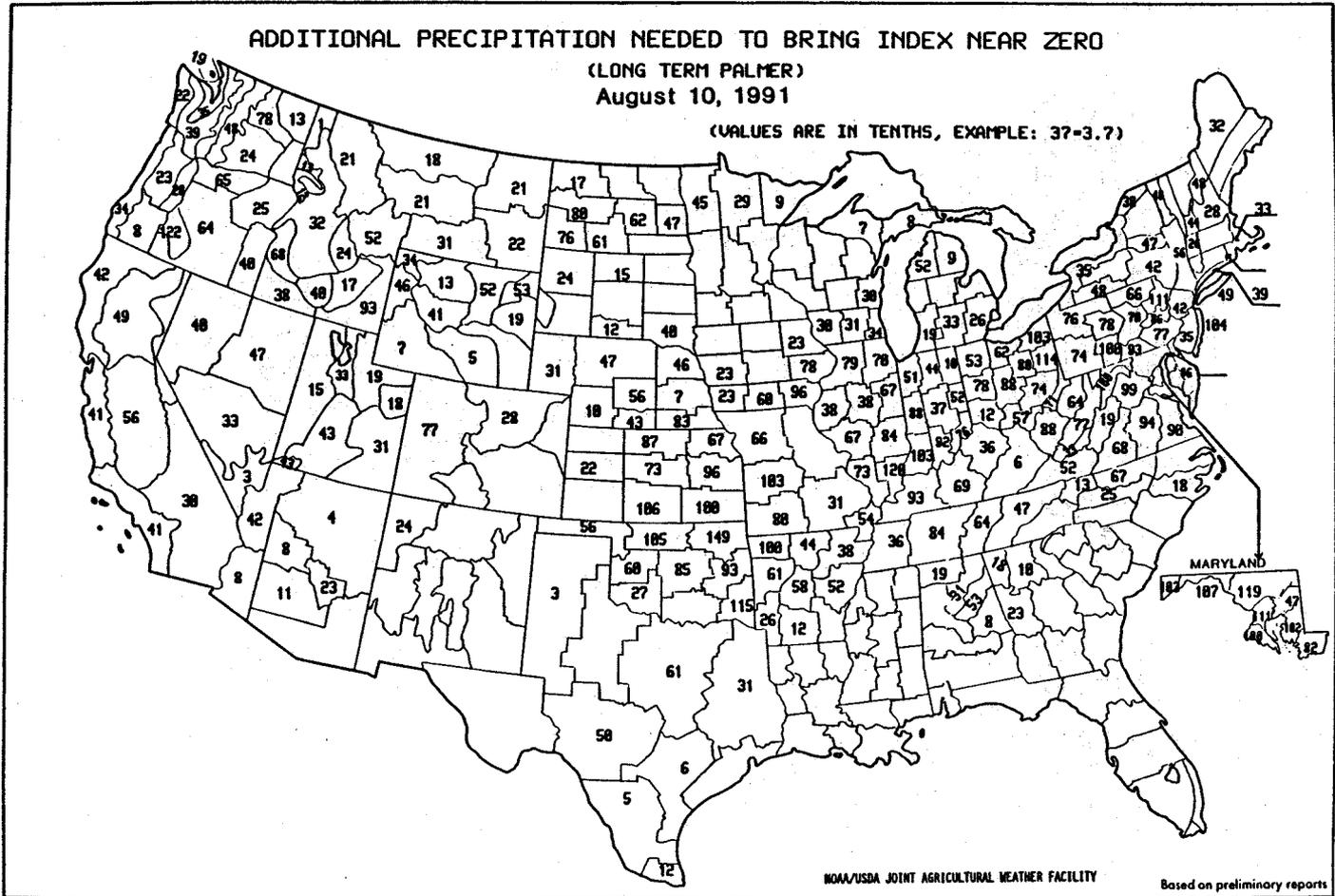
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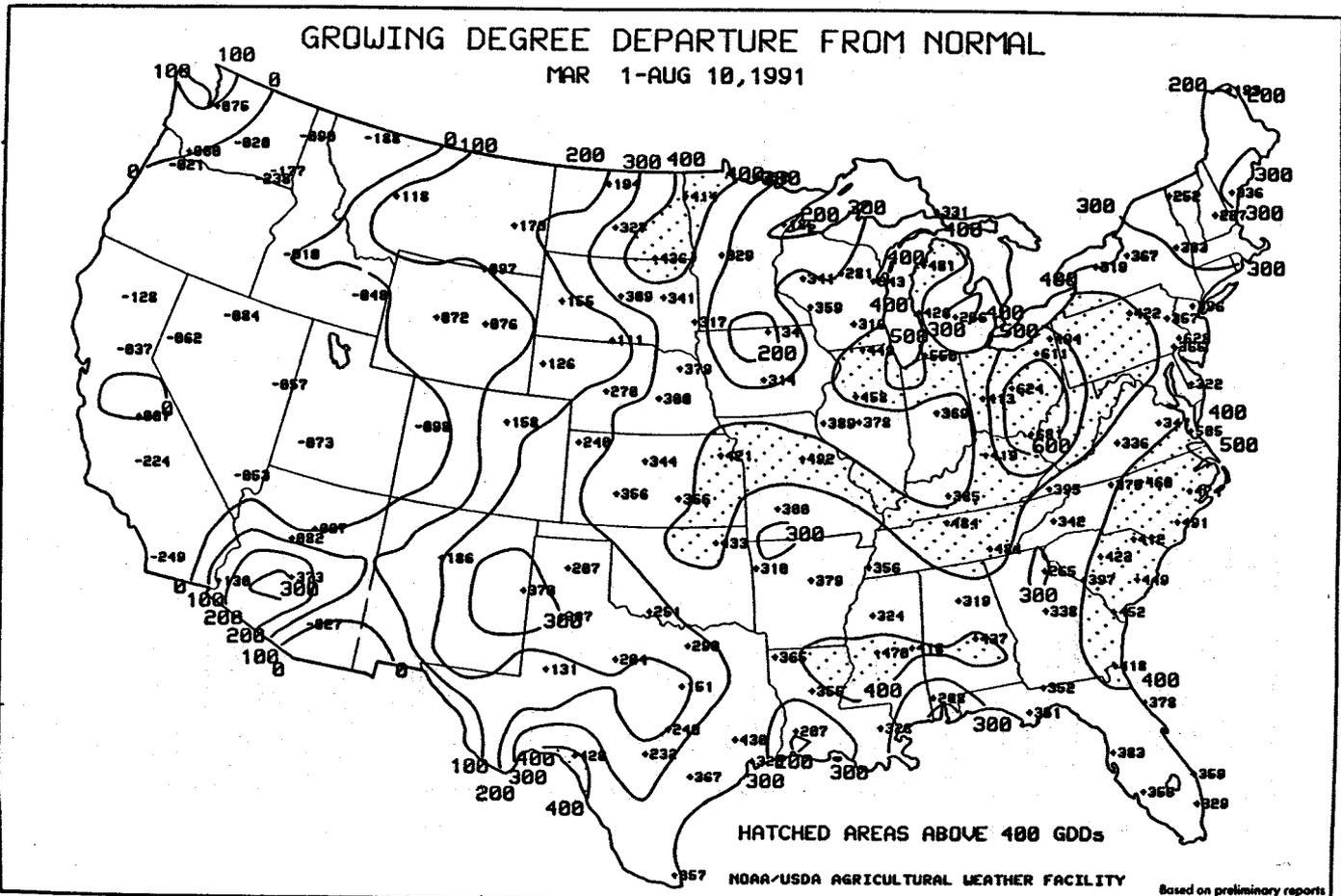
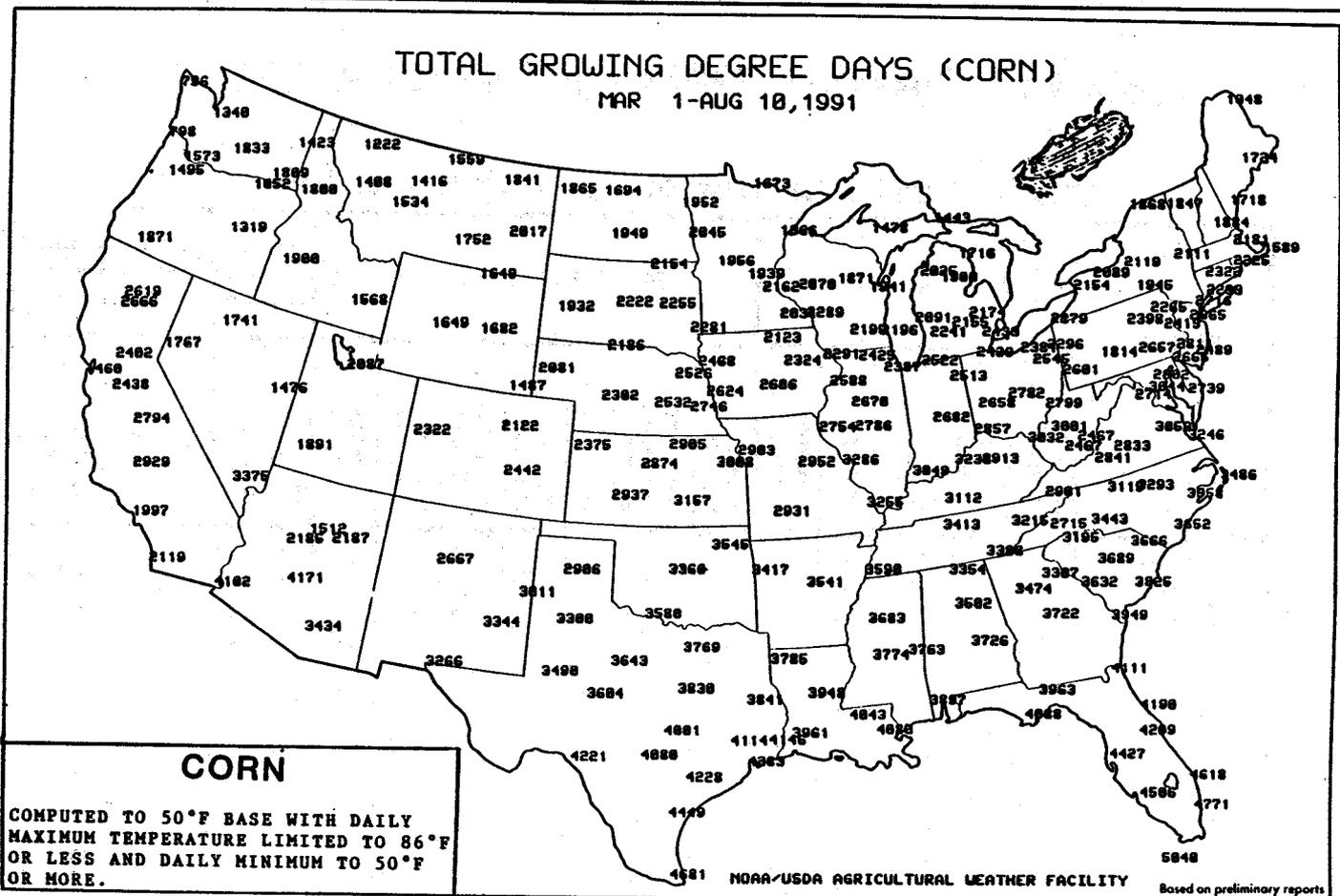


- .4 to -.4 NEAR NORMAL
- .5 to -.9 INCIPENT DROUGHT
- 1.0 to -1.9 MILD DROUGHT
- 2.0 to 2.9 MODERATE DROUGHT
- 3.0 to -3.9 SEVERE DROUGHT
- BELOW -4.0 EXTREME DROUGHT
- .5 to .9 INCIPENT MOIST SPELL
- 1.0 to 1.9 MOIST SPELL
- 2.0 to 2.9 UNUSUAL MOIST SPELL
- 3.0 to 3.9 VERY MOIST SPELL
- ABOVE +4.0 EXTREME MOIST SPELL

NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY

Based on preliminary reports





National Weather Data for Selected Cities

Weather Data for the Week Ending August 10, 1991

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	TEMP. °F		PRECIP.		
													90 AND ABOVE		32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE		
AL BIRMINGHAM	95	73	98	72	84	4	.3	-1.6	.2	11.8	115	38.0	105	95	46	7	0	0	0
MOBILE	91	74	93	73	83	0	.8	-1.8	.3	16.5	110	66.2	159	96	59	6	0	3	0
MONTGOMERY	96	73	99	72	84	3	.4	-1.7	.4	11.9	129	49.6	154	97	46	7	0	0	0
AK ANCHORAGE	64	50	67	44	57	-1	.4	-1.5	.4	3.4	93	5.5	77	92	61	0	0	1	0
BARROW	38	30	48	26	34	-5	.1	-1.1	.1	.5	30	.9	37	99	88	0	6	5	0
FAIRBANKS	64	50	72	48	57	-2	.4	-1.1	.1	2.0	52	5.6	95	97	59	0	0	5	0
JUNEAU	62	48	74	39	55	0	1.0	-1.1	.8	10.5	122	34.7	136	95	82	0	0	2	1
KODIAK	60	50	66	50	55	0	.4	-1.6	.2	11.4	125	50.6	155	96	64	0	0	4	0
WOME	57	42	62	37	49	-2	.6	-1.1	.6	5.4	126	8.5	117	92	61	0	0	3	1
AZ PHOENIX	107	83	113	79	95	4	.4	-1.2	.2	.2	13	3.4	92	34	16	7	0	1	0
PRESCOTT	89	58	95	51	74	2	.5	-1.4	.5	2.1	43	8.3	76	61	21	2	0	1	0
TUCSON	101	74	106	68	87	2	1.2	.6	1.2	1.8	53	5.3	88	52	21	6	0	2	1
YUMA	106	80	111	75	93	0	.4	-1.1	.4	.4	0	1.8	159	46	15	7	0	0	0
AR FORT SMITH	96	72	99	66	84	2	.1	-1.6	.1	4.8	62	22.6	91	90	37	6	0	1	0
LITTLE ROCK	96	75	98	72	85	3	.4	-1.6	.4	6.6	80	32.0	102	82	49	7	0	1	0
CA BAKERSFIELD	92	64	101	60	78	-4	.0	-1.0	.0	.0	0	4.6	118	69	29	3	0	0	0
FURUKA	68	56	82	53	62	5	.4	-1.0	.4	1.4	199	17.5	78	93	71	0	0	2	0
FRESNO	92	62	98	59	77	-3	.0	-1.0	.0	.0	0	8.5	121	76	29	4	0	0	0
LOS ANGELES	73	62	77	61	68	-3	.0	-1.0	.0	.2	567	8.0	97	87	57	0	0	0	0
REDDING	93	63	101	60	78	-4	.0	-1.1	.0	.1	12	17.3	70	66	22	5	0	0	0
SACRAMENTO	89	58	98	55	74	-2	.0	-1.0	.0	2.4	>1000	12.6	118	95	31	4	0	0	0
SAN DIEGO	72	63	74	61	68	-4	.0	-1.0	.0	.3	357	10.8	176	86	61	0	0	0	0
SAN FRANCISCO	74	57	79	55	66	3	.2	-1.0	.1	.1	92	11.0	89	93	57	0	0	0	0
CO DENVER	83	57	87	55	70	-3	.2	-1.2	.2	8.6	214	14.5	137	88	34	0	0	2	0
GRAND JUNCTION	86	60	92	55	73	-5	.2	-1.2	.2	1.1	93	3.9	88	69	24	3	0	1	0
PUEBLO	87	58	93	53	73	-3	.9	-1.4	.6	6.0	165	8.4	116	90	34	4	0	5	1
CT BRIDGEPORT	81	65	85	60	73	-1	2.2	1.3	1.6	6.6	88	22.4	90	84	49	0	0	3	1
HARTFORD	81	61	89	55	71	-2	2.3	1.4	1.8	7.8	102	25.3	98	96	49	0	0	3	1
DC WASHINGTON	87	72	91	68	79	1	1.4	.4	1.4	6.5	75	17.6	74	80	48	1	0	2	1
FL APALACHICOLA	91	76	92	75	83	2	1.7	.1	.9	23.8	167	79.8	252	97	66	6	0	3	2
DAYTONA BEACH	93	74	96	73	84	2	1.4	.0	1.4	26.3	190	50.7	181	96	53	7	0	1	1
JACKSONVILLE	95	75	97	74	85	3	.3	-1.4	.2	27.9	191	62.7	197	94	51	7	0	2	0
KEY WEST	91	81	93	77	86	1	.2	-1.8	.2	11.0	110	25.9	132	79	59	6	0	2	0
MIAMI	92	77	95	74	85	2	3.7	2.3	2.3	18.5	108	32.2	98	88	55	7	0	5	3
ORLANDO	94	75	96	73	85	2	1.1	-1.5	.7	18.3	106	45.6	143	95	52	7	0	2	1
TALLAHASSEE	95	73	98	72	84	3	.6	-1.1	.4	16.7	94	64.8	153	100	55	7	0	2	0
TAMPA	92	76	94	75	84	2	.1	-1.7	.1	15.4	102	31.4	109	95	56	7	0	2	0
WEST PALM BEACH	92	76	95	73	84	1	.4	-1.8	.3	15.1	97	52.3	160	92	56	6	0	3	0
GA ATLANTA	93	73	96	71	83	4	1.1	.3	.9	16.9	182	44.3	134	95	53	6	0	4	1
AUGUSTA	94	73	96	72	84	3	1.6	.6	.9	20.0	209	46.9	159	100	56	7	0	5	1
Macon	95	74	97	72	84	3	2.2	1.3	2.0	11.7	124	41.2	134	98	54	7	0	3	1
SAVANNAH	95	76	98	75	86	4	.4	-1.6	.4	22.8	149	55.3	166	93	50	7	0	2	0
HI HILO	82	73	84	69	77	1	19.1	16.7	11.2	40.7	224	110.8	144	99	76	0	0	7	3
HONOLULU	89	77	90	77	83	3	.1	-1.1	.1	.5	44	11.1	80	77	51	3	0	1	0
KAHULUI	87	73	90	68	80	1	.9	-1.8	.6	1.2	177	9.1	76	92	65	1	0	3	1
LIHUE	83	75	84	73	79	0	.7	-1.3	.6	6.3	149	21.8	88	88	69	0	0	4	1
ID BOISE	95	64	100	59	80	6	.4	-1.1	.4	1.0	81	6.2	85	48	16	6	0	0	0
LEWISTON	90	63	99	52	77	3	.4	-1.1	.4	2.5	114	8.6	107	65	24	5	0	1	0
POCATELLO	92	54	99	47	73	2	.4	-1.1	.4	.8	45	9.6	140	71	16	5	0	2	0
IL CHICAGO	77	62	82	57	69	-3	1.9	1.2	1.7	4.2	49	19.0	90	87	44	0	0	3	1
MOLINE	80	62	86	56	71	-4	1.2	.3	.7	3.1	30	18.6	77	96	54	0	0	4	1
PEORIA	78	62	84	56	70	-4	1.8	1.0	.8	3.6	41	18.0	80	97	59	0	0	4	2
QUINCY	79	64	85	56	72	-4	.4	-1.5	.2	3.5	36	21.5	90	88	61	0	0	5	0
ROCKFORD	78	61	82	58	70	-3	1.3	.5	1.0	5.4	52	16.6	71	91	51	0	0	3	1
SPRINGFIELD	81	64	86	55	72	-3	2.3	1.5	.9	6.8	83	20.8	95	99	66	0	0	4	3
IN EVANSVILLE	88	67	96	61	78	0	.1	-1.7	.1	3.3	39	19.3	70	97	51	2	0	2	0
FORT WAYNE	77	60	86	57	69	-4	1.8	1.0	1.6	7.5	92	27.3	123	91	49	0	0	3	1
INDIANAPOLIS	82	63	89	59	72	-2	1.7	.9	1.3	4.8	51	23.7	93	95	55	0	0	3	1
SOUTH BEND	78	60	82	58	69	-3	1.5	.6	1.5	3.6	40	18.4	79	89	44	0	0	1	1
IA DES MOINES	79	62	86	57	71	-5	2.8	1.9	1.3	6.9	79	27.3	136	98	57	0	0	5	2
SIOUX CITY	79	61	95	54	70	-5	1.7	.9	1.7	7.8	92	17.9	103	98	55	1	0	2	1
WATERLOO	78	60	85	55	69	-3	4.1	3.3	3.6	7.9	77	29.3	134	95	54	0	0	3	2
KS CONCORDIA	85	64	99	56	75	-5	1.0	.3	.4	6.0	69	13.9	76	91	44	2	0	3	0
DODGE CITY	90	64	98	58	77	-3	.3	-1.4	.3	1.6	23	6.1	42	86	36	4	0	1	0
GOODLAND	80	59	90	54	70	-6	.3	-1.2	.2	12.4	215	18.7	162	96	53	1	0	2	0
TOPEKA	87	68	97	60	78	-1	1.1	.2	.8	4.2	41	18.7	87	94	54	3	0	4	1
WICHITA	94	69	102	64	81	0	.4	-1.6	.4	4.0	47	11.7	64	82	37	5	0	2	0
KY BOWLING GREEN	93	69	98	65	81	3	.2	-1.6	.1	5.7	57	29.1	90	93	50	5	0	2	0
LEXINGTON	89	67	95	63	78	2	.4	-1.6	.4	6.9	65	25.8	85	91	48	2	0	1	0
LOUISVILLE	90	70	96	66	80	3	.9	-1.1	.8	5.1	58	23.6	83	83	47	4	0	2	1
LA ALEXANDRIA	93	73	95	71	83	0	1.0	-1.1	.5	7.5	76	54.6	158	95	49	6	0	3	1
BATON ROUGE	95	73	97	71	84	2	3.9	2.7	3.4	14.3	119	54.8	150	97	50	7	0	5	1
LAKE CHARLES	91	74	94	72	82	0	2.5	1.3	1.2	12.8	115	53.4	169	99	59	5	0	3	2
NEW ORLEANS	92	74	94	73	83	1	.9	-1.5	.6	25.0	187	85.5	227	99	61	7	0	3	1

Based on 1951-80 normals

Weather Data for the Week Ending August 10, 1991

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS							
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Jun 1	PCT. NORMAL SINCE Jun 1	TOTAL, IN., SINCE Jun 1	PCT. NORMAL SINCE Jun 1	AVERAGE	MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	TEMP. °F		PRECIP.	
																			.01 INCH OR MORE	.50 INCH OR MORE		
DAYTON	80	61	87	59	70	-1	1.3	.5	.6	6.5	79	25.9	113	93	51	0	0	0	4	1		
TOLEDO	80	58	85	54	69	-3	.5	-.2	.5	2.8	36	16.1	81	95	43	0	0	0	1	1		
YOUNGSTOWN	80	53	87	45	67	-3	.3	-.5	.2	5.8	67	16.6	70	98	40	0	0	0	2	0		
OK OKLAHOMA CITY	95	72	100	63	83	1	.3	-.2	.3	6.2	81	17.1	85	82	35	5	0	0	1	0		
TULSA	97	75	102	68	86	3	.4	-.6	.4	4.0	45	14.6	60	78	34	6	0	0	1	0		
OR ASTORIA	66	54	71	48	60	-1	.4	-.3	.3	2.2	56	35.4	95	95	67	0	0	0	2	0		
BURNS	84	47	90	43	66	-3	.3	-.2	.3	.9	92	4.4	75	71	21	1	0	0	1	0		
MEDFORD	89	58	96	47	73	1	.4	-.1	.4	1.8	173	10.4	98	82	27	3	0	0	0	0		
PENDLETON	89	62	97	55	75	2	.4	-.3	.4	2.8	251	9.2	131	62	24	3	0	0	2	0		
PORTLAND	82	61	92	52	71	3	.3	-.1	.3	2.7	123	21.0	104	89	46	1	0	0	1	0		
SALEM	82	58	91	54	70	3	.4	-.1	.4	1.7	98	21.4	97	86	41	1	0	0	1	0		
PA ALLENTOWN	83	63	89	56	73	-1	1.2	-.2	1.2	7.5	84	21.1	79	88	43	0	0	0	1	1		
ERIE	77	61	80	55	69	-1	.4	-.4	.2	4.8	56	16.6	74	91	52	0	0	0	3	0		
HARRISBURG	86	65	91	56	76	0	2.8	2.1	2.8	6.3	79	19.5	81	83	38	1	0	0	1	1		
PHILADELPHIA	86	69	90	66	78	1	2.4	1.4	2.4	10.5	116	24.1	95	82	40	1	0	0	2	1		
PITTSBURGH	82	61	89	54	72	0	.2	-.6	.2	7.8	93	21.0	88	86	37	0	0	0	3	0		
SCRANTON	81	59	87	51	70	-1	1.1	-.3	1.0	5.5	69	16.8	80	88	44	0	0	0	3	1		
RI PROVIDENCE	81	62	88	57	72	-1	2.7	1.8	1.7	6.6	94	27.1	102	93	52	0	0	0	3	2		
SC CHARLESTON	94	77	96	74	85	5	.1	-1.4	.1	14.2	88	37.5	110	95	53	7	0	0	3	0		
COLUMBIA	95	73	97	73	84	3	2.8	1.5	1.0	25.6	220	52.2	160	97	52	7	0	0	5	3		
FLORENCE	94	74	96	73	84	3	.5	-.7	.2	16.4	137	33.5	115	97	56	7	0	0	4	0		
GREENVILLE	92	71	95	68	82	3	1.5	-.6	.9	9.6	94	34.4	104	96	51	7	0	0	3	2		
SD ABERDEEN	77	57	81	50	67	-5	.2	-.3	.1	7.2	115	19.8	155	96	56	0	0	0	2	0		
HURON	77	58	80	53	68	-6	.8	-.3	.8	8.5	137	19.5	147	93	55	0	0	0	1	1		
RAPID CITY	81	56	89	53	69	-5	.2	-.1	.1	5.5	94	14.6	118	98	47	0	0	0	4	0		
STOCK FALLS	74	57	81	51	66	-8	.2	-.5	.2	9.6	131	19.5	123	98	59	0	0	0	1	0		
TN CHATTANOOGA	94	73	97	72	84	5	.3	-.5	.2	8.0	89	36.8	109	91	47	7	0	0	2	0		
KNOXVILLE	90	70	96	69	80	2	3.5	2.8	1.8	13.0	139	36.0	115	96	55	5	0	0	4	2		
MEMPHIS	95	76	100	71	85	4	.3	-.5	.3	3.7	42	40.9	121	88	49	6	0	0	1	0		
NASHVILLE	92	72	96	70	82	2	.8	-.0	.3	4.8	57	25.8	82	94	48	6	0	0	4	0		
TX ABILENE	91	71	95	69	81	-3	.7	-.2	.4	11.0	207	17.1	123	81	40	5	0	0	4	0		
AMARILLO	88	63	95	60	76	-3	.5	-.2	.2	5.5	77	9.9	77	89	41	2	0	0	3	0		
AUSTIN	97	73	100	71	85	0	.7	-.4	.4	5.6	101	27.6	149	94	38	7	0	0	0	0		
BEAUMONT	93	74	96	71	84	0	.9	-.4	.4	11.3	90	53.0	160	97	55	7	0	0	3	0		
BROWNSVILLE	95	76	96	73	85	1	.4	-.1	.4	3.5	73	19.9	169	93	51	7	0	0	1	0		
CORPUS CHRISTI	94	76	95	75	85	0	1.2	-.6	.8	8.7	122	24.3	150	96	54	7	0	0	2	1		
DEL RIO	95	73	98	70	84	-2	.7	-.3	.4	4.0	104	9.6	99	65	31	7	0	0	1	0		
EL PASO	90	66	96	63	78	-4	.5	-.2	.3	3.3	130	4.9	121	87	38	4	0	0	3	0		
FORT WORTH	98	75	100	72	86	0	.7	-.4	.4	8.3	162	25.5	132	85	38	7	0	0	1	0		
GALVESTON	90	80	91	76	85	1	.2	-.7	.2	9.7	114	41.3	188	82	63	5	0	0	1	0		
HOUSTON	93	74	97	73	84	0	1.1	-.3	.5	10.2	111	39.6	146	96	54	6	0	0	3	1		
LUBBOCK	91	66	97	64	78	-1	1.0	.5	.6	8.3	143	12.0	107	85	39	5	0	0	4	1		
MIDLAND	87	66	91	62	77	-5	.5	-.2	.3	12.5	348	15.1	191	90	44	2	0	0	3	0		
SAN ANGELO	94	69	97	65	81	-3	.6	-.2	.6	6.6	187	11.2	112	89	38	6	0	0	2	1		
SAN ANTONIO	95	74	98	71	85	0	.7	-.5	.4	4.5	80	23.2	139	92	42	7	0	0	1	0		
VICTORIA	93	75	97	72	84	-1	2.0	1.5	1.4	15.7	198	43.0	211	97	56	7	0	0	4	1		
WACO	98	74	100	72	86	-1	.5	-.2	.3	7.4	151	21.4	113	92	38	6	0	0	2	0		
WICHITA FALLS	97	73	101	68	85	-1	.7	-.4	.4	4.7	88	13.3	81	77	34	7	0	0	1	0		
UT CEDAR CITY	89	58	93	50	73	0	.7	-.2	.4	3.5	179	7.4	119	43	14	2	0	0	2	0		
SALT LAKE CITY	93	65	99	58	79	2	.1	-.1	.1	1.5	76	9.8	99	57	15	5	0	0	2	0		
VT BURLINGTON	76	58	84	54	67	-2	1.7	.9	1.1	5.9	71	17.2	87	100	60	0	0	0	5	1		
VA NORFOLK	87	72	96	70	80	1	2.3	1.0	1.9	13.2	128	30.5	110	95	57	2	0	0	3	1		
RICHMOND	87	69	93	66	78	0	1.6	.4	.9	11.3	109	23.7	89	95	53	1	0	0	3	2		
ROANOKE	86	67	92	62	77	0	1.6	.7	.9	11.2	140	29.8	123	92	53	1	0	0	3	2		
WA QUILLAYUTE	65	52	70	43	59	-1	6.0	5.4	4.4	9.5	152	58.0	101	99	70	0	0	0	5	2		
SEATTLE-TACOMA	77	59	85	53	68	3	.9	.6	.8	2.4	101	24.1	120	91	54	0	0	0	3	1		
SPOKANE	85	59	94	56	72	3	.1	.0	.0	1.9	97	9.7	99	83	29	3	0	0	4	0		
YAKIMA	87	60	94	48	74	4	.4	.0	.4	2.8	348	5.3	119	81	33	2	0	0	1	0		
WV BECKLEY	81	62	86	57	72	2	2.1	1.3	1.1	7.0	70	24.9	91	95	58	0	0	0	3	2		
CHARLESTON	87	64	93	59	76	1	2.6	1.5	1.2	7.9	78	24.6	89	98	45	2	0	0	3	2		
HUNTINGTON	88	66	94	63	77	2	1.7	.8	1.1	6.2	65	24.7	92	91	43	2	0	0	2	2		
PARKERSBURG	83	63	89	57	73	-2	2.8	1.9	1.2	12.1	132	28.4	113	93	50	0	0	0	3	2		
WI GREEN BAY	76	55	80	48	65	-4	1.1	.4	1.0	6.7	91	15.7	91	96	48	0	0	0	4	1		
LACROSSE	75	58	82	55	67	-6	.2	-.6	.2	8.9	98	25.4	131	98	57	0	0	0	2	0		
MADISON	75	54	81	48	65	-6	2.0	1.1	1.9	10.9	123	23.8	122	97	50	0	0	0	3	1		
MILWAUKEE	74	63	83	59	68	-3	2.0	1.3	2.0	8.6	105	22.5	115	87	59	0	0	0	2	1		
WAUSAU	74	53	82	49	64	-5	.7	-.2	.4	11.3	123	24.9	127	97	48	0	0	0	3	0		
WY CASPER	89	54	92	52	71	0	.7	-.1	.4	1.8	74	9.4	116	77	20	3	0	0	1	0		
CHEYENNE	78	53	83	50	65	-3	.2	-.1	.1	8.5	195	14.4	148	93	38	0	0	0	3	0		
LANDER	86	56	91	54	71	0	.7	-.1	.4	1.7	76	10.6	113	63	23	2	0	0	0	0		
SHERIDAN	91	54	96	51	72	2	.0	-.2	.0	1.6	47	10.6	101	72	20	4	0	0	0	0		

Based on 1951-80 normals

National Agricultural Summary

August 5 - 11, 1991

HIGHLIGHTS: Rainfall brought some relief to moisture stressed crops in the Corn Belt, with the most significant totals recorded in the western part of the region. Soil moisture supplies remained short in all regions except the Rocky Mountains, Upper Mississippi Valley, and southern Atlantic Coast States.

SMALL GRAINS: Winter wheat harvest reached 90 percent (%) complete in the 19 major producing States, 4 percentage points behind both last year and the 5-year average. Harvest continued to lag behind normal in the Pacific Northwest with progress in Idaho 22 points behind normal, Oregon 18 points behind, and Washington 32 points behind. Harvest was 36 points behind the average in Montana. Spring wheat harvest was 45% complete in the five major producing States, compared with 42% last year and 47% average. Condition ratings for spring wheat showed little change from the previous week, with Minnesota's crop rating mostly fair and those of the other major States rating mostly good. Harvests of barley and oats were well along in the Northeast and gaining momentum in the Northwest.

CORN: Crop development continued to outpace last year and the historic average with 62% of the crop in the dough stage, compared with 27% last year and 51% average. Twenty-seven percent of the corn had dented, compared with 7% last year and 19% average. Average crop condition for the 17 major producing States was largely unchanged from the previous week, rating mostly fair to good. Conditions remained mostly poor to fair in the eastern Corn Belt despite the receipt of much needed rain in the region. Very poor or poor conditions were reported for 57% of the Indiana crop, 37% of Ohio's, and 28% of Illinois'. Pennsylvania corn condition deteriorated even further with 52% of the corn acreage in very poor to poor condition. Corn harvest continued in the South.

SOYBEANS: Bloom advanced to 88% in the 19 major producing States, 10 percentage points ahead of last year and 2 points ahead of the average. Pod setting was evident in 68% of the crop acreage, compared with 48% last year and 64% average. Crop development continued to progress well ahead of normal in South Dakota and the Ohio Valley, but remained behind normal in the Gulf Coast States and Tennessee. Crop condition showed some improvement in the Corn Belt as rains were welcomed. Condition ratings were lower in Kansas, Kentucky, and the Delta.

COTTON: Boll setting advanced to 84% of the acreage in the 14 major producing States, 7 points behind last year, and 3 points behind the average. Bolls were opening on 9% of the acreage, 1 point ahead of last year. Texas reported 19% of the crop with opening bolls, 8 points ahead of both last year and the average. Picking resumed in the early fields of southern Texas. Crop condition continued to rate mostly good in the Southwest and Southeast and mostly fair in the Mississippi and Tennessee Valleys.

GRAIN SORGHUM: Progress of sorghum heading reached 70% in the 12 major producing States, 13 points ahead of last year and 2 points ahead of the historic average. Heads were coloring on 30% of the acreage, 4 points ahead of last year and 3 points ahead of the average. Crop condition rated mostly good in the Southwest, Colorado, and South Dakota, and mostly fair elsewhere. Sorghum harvest was virtually complete in southern and central Texas, and harvest began in the Hill Country.

RICE: Crop development continued to outpace last year while lagging the historic average. Heading advanced to 59% of the national crop acreage, compared with 54% last year and 65% average. Heading progress was behind both last year and the average in California due to cool spring weather, and in Mississippi due to late planting. Harvest continued in Texas and Louisiana. Crop condition remained mostly fair in Mississippi, while improving to mostly good in Louisiana. The other major producing States continued to report the crop in mostly good condition.

OTHER FIELD CROPS: Haying was very active with growers taking third cutting hay in the central States and second cutting in the Northeast and Northwest. Maine and Connecticut Valley potatoes were in good condition. Potato harvest was active in Colorado, Ohio, Oregon, Pennsylvania, Virginia, and Washington. Georgia and North Carolina peanuts rated in mostly good condition, with digging starting in Georgia. Dry pea and lentil harvests continued in the Pacific Northwest. North Dakota sunflower bloom neared completion, while the flax crop was ripening. Tobacco harvest gained momentum in Maryland, Tennessee, and Virginia. Kentucky tobacco condition rated mostly fair. Sweetpotato harvest began in Texas.

FRUIT AND NUTS: California harvests of table grapes, early apple varieties, peaches, and nectarines continued. Florida's new crop fruit was progressing well with a few early bloom grapefruit near packable sizes. Cherry harvest was completed in Idaho. New England apples, peaches, and pears were being picked, and blueberry and raspberry pickings were well along. Early peaches and apples were being harvested in Oregon. Peach harvest was well along in South Carolina, and apple harvest was underway in the State. Utah's tart cherry harvest was well along. Virginia apple and peach harvests continued. Early apple harvest started in Benton County, Washington.

VEGETABLES: Mixed vegetable and melon harvests continued in Arizona. Broccoli, cauliflower, celery, tomato, and melon harvests were active in California. Onion harvest was increasing in Colorado. Harvest of sweet corn for processing was underway in Idaho. Maryland and Delaware summer vegetable harvests were well along. Minnesota sweet corn harvest was active. Fall vegetable planting was near completion in New Jersey, and summer vegetables remained in moderate to good supply. New Mexico's chili crop rated mostly good, with limited harvest of green chili underway. Vegetable harvesting remained in high gear in New York. Oregon vegetable harvests continued. Onions were being dug on Texas' High Plains, and the State's melon harvests progressed. Harvest of summer vegetables was in progress in Washington.

PASTURES AND LIVESTOCK: Dry conditions limited forage development from the West through the Midwest, while good to excellent pasture conditions prevailed in the Southeast. Heavy broiler chicken losses were reported in north-central Louisiana due to high heat.

CROP PROGRESS

For Week Ending August 11, 1991

Soybeans
% Setting Pods

	1991	1990	Avg.
AL	31	39	39
AR	34	10	26
GA	57	47	47
IL	93	49	83
IN	84	43	60
IA	75	71	87
KS	70	40	55
KY	42	17	31
LA	31	61	53
MI	60	35	45
MN	79	75	86
MS	32	47	37
MO	52	29	59
NE	69	37	70
NC	40	26	22
OH	98	70	72
SC	32	21	22
SD	81	58	60
TN	18	27	35

19 States 68 48 64

These 19 states produced 95% of the 1990 soybeans crop.

Cotton
% Bolls Opening

	1991	1990	Avg.
AL	3	3	6
AZ	8	32	26
AR	0	0	3
CA	0	1	3
GA	3	10	8
LA	0	9	10
MS	1	4	4
MO	0	0	3
NM	5	5	NA
NC	3	1	NA
OK	1	1	0
SC	1	2	3
TN	2	3	3
TX	19	11	11

14 States 9 8 NA

Excl. States with NA 10 8 8

These 14 states produced 99% of the 1990 cotton crop.

NA - not available.

Winter Wheat
% Harvested

	1991	1990	Avg.
AR	100	100	100
CA	99	99	99
CO	93	95	95
GA	100	100	100
ID	23	46	45
IL	100	100	100
IN	100	100	100
KS	100	100	100
MI	100	100	100
MO	100	100	100
MT	27	64	63
NE	100	100	100
NC	100	100	100
OH	100	100	100
OK	100	100	100
OR	48	66	66
SD	100	100	98
TX	100	100	100
WA	33	70	65

19 States 90 94 94

These 19 states produced 91% of the 1990 winter wheat crop.

Soybeans
% Bloom

	1991	1990	Avg.
AL	60	71	67
AR	59	42	54
GA	86	75	82
IL	100	81	96
IN	100	86	94
IA	95	95	98
KS	90	70	85
KY	80	60	74
LA	69	82	78
MI	95	90	90
MN	98	98	98
MS	62	70	64
MO	78	56	82
NE	98	95	99
NC	68	53	50
OH	100	80	90
SC	67	57	54
SD	94	87	87
TN	54	58	65

19 States 88 78 86

These 19 states produced 95% of the 1990 soybeans crop.

Cotton
% Setting Bolls

	1991	1990	Avg.
AL	96	98	97
AZ	99	100	99
AR	100	100	99
CA	95	95	96
GA	98	100	99
LA	95	97	96
MS	93	97	96
MO	92	100	100
NM	89	80	81
NC	90	92	89
OK	85	76	66
SC	97	93	87
TN	92	89	95
TX	72	85	78

14 States 84 91 87

These 14 states produced 99% of the 1990 cotton crop.

Corn
% Dough

	1991	1990	Avg.
CO	33	22	35
GA	99	99	99
IL	87	40	72
IN	90	30	57
IA	41	12	43
KS	80	65	70
KY	77	35	55
MI	25	1	15
MN	25	11	32
MO	85	47	78
NE	69	27	53
NC	92	82	85
OH	86	28	53
PA	40	14	22
SD	42	21	26
TX	90	89	91
WI	46	11	30

17 States 62 27 51

These 17 states produced 95% of the 1990 corn crop.

Rice
% Headed

	1991	1990	Avg.
AR	52	29	55
CA	15	40	32
LA	85	79	84
MS	46	76	77
TX	97	98	99

5 States 59 54 65

These 5 states produced 98% of the 1990 rice crop.

Rice
% Harvested

	1991	1990	Avg.
AR	1	0	0
CA	0	0	0
LA	39	28	22
MS	0	0	0
TX	40	27	30

5 States 13 9 8

These 5 states produced 98% of the 1990 rice crop.

Spring Wheat
% Harvested

	1991	1990	Avg.
ID	20	23	29
MN	52	50	56
MT	6	26	27
ND	47	36	44
SD	77	78	74

5 States 45 42 47

These 5 states produced 97% of the 1990 spring wheat crop.

Corn
% Dent

	1991	1990	Avg.
CO	0	0	0
GA	96	97	95
IL	55	3	29
IN	39	3	18
IA	12	0	16
KS	35	20	25
KY	50	15	26
MI	3	0	2
MN	5	0	8
MO	62	17	49
NE	16	1	10
NC	78	71	65
OH	31	3	12
PA	5	2	3
SD	1	0	5
TX	73	84	74
WI	11	1	5

17 States 27 7 19

These 17 states produced 95% of the 1990 corn crop.

Grain Sorghum
% Headed

	1991	1990	Avg.
AR	72	67	84
CO	46	34	49
IL	87	14	70
KS	55	40	50
LA	85	92	92
MS	81	90	92
MO	73	41	76
NE	79	50	74
NM	60	70	NA
OK	50	30	64
SD	55	51	54
TX	85	88	82
12 States	70	57	NA
Excl. States with NA	70	57	68

These 12 states produced 98% of the 1990 grain sorghum crop.

NA - NOT AVAILABLE.

Grain Sorghum
% Coloring

	1991	1990	Avg.
AR	38	13	41
CO	0	8	5
IL	18	0	11
KS	10	10	5
LA	62	69	61
MS	50	45	53
MO	32	7	30
NE	9	0	7
NM	7	0	NA
OK	18	7	26
SD	6	7	7
TX	70	67	63
12 States	30	25	NA
Excl. States with NA	30	26	27

These 12 states produced 98% of the 1990 grain sorghum crop.

NA - NOT AVAILABLE.

Crop Condition
PERCENT

Sorghum

State	VP	P	F	G	EX
AR	0	13	69	18	0
CO	0	4	16	55	25
IL	0	18	48	34	0
KS	6	25	48	21	0
LA	0	30	35	35	0
MS	0	18	59	21	2
MO	7	19	59	15	0
NE	6	15	48	29	2
NM	0	0	44	56	0
OK	0	22	32	45	1
SD	0	1	38	53	8
TX	0	0	19	64	17
12 State	3	13	39	39	6
Prev Week	2	12	40	40	6
Prev Year	1	10	35	46	8

Rice

State	VP	P	F	G	EX
AR	0	0	31	69	0
CA	0	0	10	80	10
LA	0	9	36	55	0
MS	11	4	72	11	2
TX	0	0	42	58	0
5 State	1	2	34	61	2
Prev Week	1	2	37	56	4
Prev Year	0	1	32	62	5

Spring Wheat

State	VP	P	F	G	EX
ID	0	6	21	53	20
MN	10	27	50	11	2
MT	2	5	20	56	17
ND	0	0	19	77	4
SD	0	7	24	57	12
5 State	2	7	25	59	7
Prev Week	2	7	23	58	10
Prev Year	2	8	32	47	11

Cotton

State	VP	P	F	G	EX
AL	0	27	37	36	0
AZ	0	0	0	75	25
AR	0	5	53	42	0
CA	0	0	5	90	5
GA	0	0	8	77	15
LA	0	2	46	47	5
MS	0	9	63	23	5
MO	0	18	73	9	0
NM	0	0	20	80	0
NC	0	0	17	73	10
OK	0	0	58	42	0
SC	0	0	52	48	0
TN	5	13	50	32	0
TX	4	1	37	47	11
14 State	2	4	38	48	8
Prev Week	2	2	37	52	7
Prev Year	1	6	36	52	5

Corn

State	VP	P	F	G	EX
CO	0	2	18	53	27
GA	0	0	8	68	24
IL	8	20	47	22	3
IN	17	40	37	6	0
IA	1	10	40	42	7
KS	4	15	34	28	19
KY	3	18	55	24	0
MI	1	7	25	45	22
MN	1	2	31	55	11
MO	5	17	55	21	2
NE	2	9	20	57	12
NC	0	2	26	67	5
OH	11	27	38	22	2
PA	24	28	25	19	4
SD	1	8	26	48	17
TX	0	1	10	63	26
WI	1	6	16	56	21
17 State	5	14	34	38	9
Prev Week	5	16	32	39	8
Prev Year	1	4	19	61	15

Soybeans

State	VP	P	F	G	EX
AL	0	7	24	68	1
AR	0	23	65	12	0
GA	0	0	4	88	8
IL	4	17	45	32	2
IN	5	24	57	14	0
IA	0	3	33	54	10
KS	12	23	43	19	3
KY	4	15	73	8	0
LA	4	38	38	20	0
MI	2	6	22	45	25
MN	1	2	30	56	11
MS	7	26	41	23	3
MO	4	15	56	24	1
NE	0	15	38	40	7
NC	0	1	17	76	6
OH	6	20	42	28	4
SC	0	0	4	90	6
SD	0	2	20	56	22
TN	2	15	49	33	1
19 State	3	14	41	37	5
Prev Week	3	15	45	32	5
Prev Year	1	5	37	50	7

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

USDA'S First Corn and Soybean Forecasts

On August 12, USDA's Agricultural Statistics Board released their first corn and soybean forecasts for the 1991 season. Forecasts are based on conditions as of August 1, 1991.

The first corn for grain production forecast of the 1991 season is 7.42 billion bushels, 6 percent below last year's crop (fig. 1). The U.S. average yield per acre is forecast at 107.8 bushels, down 10.7 bushels from last year's yield. The 1991 conditions have been extremely varied ranging from a record forecasted yield in Minnesota to a 31-bushel yield reduction from last year in Indiana.

The first soybean production forecast of the 1991 crop is 1.87 billion bushels, down 3 percent from the previous year (fig. 2). Yield is expected to average 31.8 bushels per acre, 2.2 bushels below 1990. Yields are expected to decline in most areas except North Dakota, Texas, and the southeast. Yields in the eastern Corn Belt are anticipated to be down due to dry conditions during June and July. Yields across the Southeastern States are generally up from 1990 levels due to more favorable weather conditions this summer.

All cotton production for the 1991 season is forecast at 17.7 million bales, up 14 percent from last year and 45 percent above the 1989 crop. If realized, this crop will be the largest all cotton production since 1937.

All wheat production is forecast at 2.03 billion bushels, up slightly from last month but 26 percent lower than 1990's level. Area for grain is 58.1 million acres, off 16 percent from last year. The average yield is 35.0 bushels per acre, unchanged from last month and down 4.5 bushels per acre from last season.

Figure 1

U.S. CORN PRODUCTION 1982 - 1991

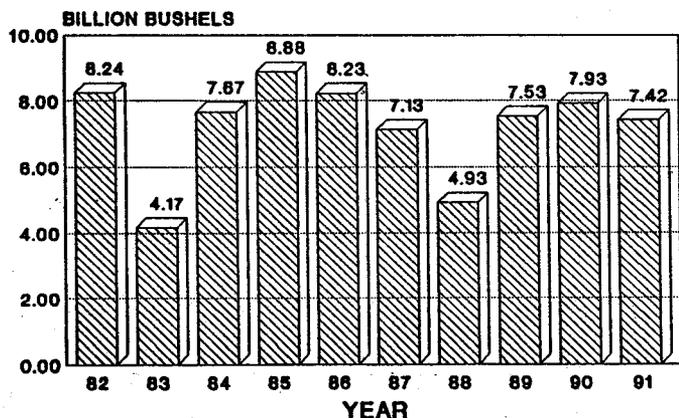
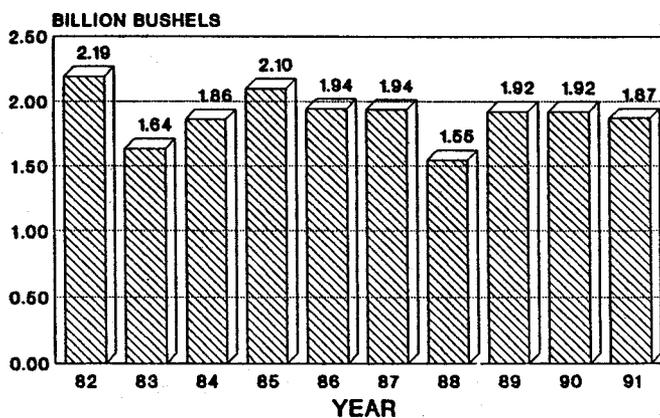


Figure 2

U.S. SOYBEAN PRODUCTION 1982 - 1991



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: Rain 1.00 in. range; 2.00 to 3.00 in. isolated areas. Temperatures 2 to 4° above normal.

Days suitable for fieldwork 6.1. Soil moisture 59% short, 38% adequate, 3% surplus. Corn 90% dented, 91% 1990, 91% avg.; 62% mature, 62% 1990, 70% avg.; 24% harvested, 32% 1990, 35% avg.; 7% poor, 12% fair, 68% good, 13% excellent. Sorghum 7% harvested, 13% 1990, 13% avg.; 30% fair, 70% good. Peanuts 99% pegging, 100% 1990, 99% avg.; 10% fair, 89% good, 1% excellent. Cotton 96% setting bolls, 98% 1990, 97% avg.; 3% bolls opened, 3% 1990, 6% avg.; 27% poor, 37% fair, 36% good. Soybeans 60% blooming, 71% 1990, 67% avg.; 31% setting pods, 39% 1990, 39% avg.; 7% poor, 24% fair, 68% good, 1% excellent. Pastures 2% very poor, 8% poor, 25% fair, 55% good, 10% excellent. Livestock 16% fair, 71% good, 13% excellent.

ALASKA: Seasonal showers with alternating sunshine, cloudiness dominated. Highs 4° below normal to 1° above normal. Lows normal to 4° above normal. Seasonal precipitation 2.62 in. drier than normal at Fairbanks to 0.81 in. wetter than normal at Homer.

Days suitable for haying 2.0. Topsoil 6% short, 89% adequate, 5% surplus. Subsoil 100% adequate. Barley 100% in dough or beyond, 65% turning color, small percent ripe. Oats, 100%, 50% turning color, small percent ripe. Barley 25% fair, 60% good, 15% excellent. First crop hay harvest 90% complete. Rate of crop growth: 18% slow, 72% moderate, 10% rapid. Commercial potatoes for early market harvest scheduled for mid month.

ARIZONA: Warm, windy with scattered thunderstorms with heavy rain south central, south east on the 4th through the 11th. Heaviest rains occurred on the 10th northwest. Precipitation trace southwest to 3.50 in. northwest. Temperatures 4° below to 4° above normal. Extremes 39°; 83° higher elevations, 60°; 113° desert.

Cotton setting bolls 99%, 100% 1990, 99% avg.; bolls opening 8%, 32% 1990, 26% avg.; cotton 75% good, 25% excellent. Alfalfa harvest moderate, alfalfa rated good to excellent. Honeydews harvested west. Mixed vegetables, watermelons, honeydews, cantaloupes harvested central. Cabbage, peaches, garlic, apples harvested east.

ARKANSAS: Temperatures hot, humid, hazy. Temperature 63°; 103°. Rainfall none to 2.47 in. Days suitable for fieldwork 7. Soil moisture 88% short, 12% adequate. Corn 33% fair, 67% good. Pasture 7% very poor, 24% poor, 48% fair, 21% good. Livestock good.

CALIFORNIA: Mild temperatures early, gave way to a warm up as strong high pressure built northward. Several weak disturbances brushed the north end of the State early, causing light rain on the north coast, in northern mountains. Open weather permitted progress field activities. Burning, discing wheat stubble continued. Harvest on going higher elevations. Rice slowed, cooler temperatures. Progress one week behind normal. Cotton good development. Fields irrigated; treated lygus, mites, pink

boll worm, whitefly. Corn silage, alfalfa seed, safflower harvests underway. Alfalfa, clover, sudan hay harvests active. Some alfalfa sprayed armyworm, weevils. Table grapes picked. Early apple varieties harvested. Freestone peaches 71%, nectarines 58% harvested to date. Cling peach harvest full swing. Prune, almond harvest started. Kings county reported heavy walnut set, light almond set. Harvesting, packing fresh figs, pears underway. Pistachios treated for stink bug. Date bagging almost completed, dusting for mites continued. Kiwifruit, pomegranates progressing well. Valencia orange harvest winding down, grapefruit harvest steady. Orange, lemon groves treated for red scale. Broccoli continued fairly heavy supply, generally good quality. Cauliflower heavy supply, variable quality. Harvest, packing all types melons active. Celery heavy supply, generally good quality. Iceberg lettuce supply heavy, variable quality. Fresh market, processing tomato harvest active. Insect control underway, vegetable, potato fields. Field preparation for fall planting, active, Desert districts. Fall crop cauliflower transplanting active. Range very poor to good northern State. Southern areas fair to good higher elevations poor lower.

COLORADO: The 5th began with annual monsoonal flow continuing over Colorado which contributed to locally heavy rains. By mid week high pressure began to build back into the State which began to dry out the west, east continued with afternoon, evening thunderstorms. Temperatures below seasonal normals across State for August.

Days suitable for fieldwork 4.9. Soil moisture 5% very short, 25% short, 60% adequate, 10% surplus. Winter wheat harvest virtually complete eastern plains; northwest to begin late August. Second cutting alfalfa 50% complete, 61% 1990, 69% avg.; third cutting 4% complete, 11% 1990, 10% avg. Barley 38% harvested, 61% 1990, 64% avg.; oats 58% harvested, 56% 1990, 53% avg. Corn 85% silked, 80% 1990, 89% avg.; 33% dough, 22% 1990, 35% avg.; 2% poor, 18% fair, 53% good, 27% excellent; dry beans 4% poor, 21% fair, 52% good, 23% excellent; sorghum 4% poor, 16% fair, 55% good, 25% excellent. Summer potato harvest 19% complete. Onion harvest 11% complete, 22% 1990, 11% avg. Livestock mostly good. Pasture, range feed good to excellent.

FLORIDA: Temperatures 1 to 3° above normal. Highs mid 90s, lows mostly lower 70s. Rained daily across State. Rainfall 0.50 in. most areas, local areas received 2.00 in.

Soil moisture adequate Peninsula, surplus Panhandle. Peanut crop progress normal. Soybean harvest about done. Corn harvest mostly done. Rice harvest continues. States pastures mostly good to excellent. Pasture 50% excellent, 40% good, 10% fair. States herds mostly good to excellent. Citrus groves, trees excellent. Moisture adequate, some irrigation resumed on high sand hills. Abundant new foliage. New crop fruit making good progress. Few early bloom grapefruit near packable sizes. Few early bloom Hamlin oranges beginning to break color. Hot temperatures, limited shower activity over vegetable producing areas. Planting active northern, central areas. Ground preparation southern areas.

GEORGIA: Rain least 1.00 in. most locations, 2.00 to 3.00 in. north, central. Greatest 4.15 in. Columbus. Rain fell 4 days. Temperatures 3° above normal. Extremes 63°; 100°.

Days suitable for fieldwork 5.0. Soil moisture 11% short, 71% adequate, 18% surplus. Corn 89% mature, 85% 1990, 83% avg.; 29% harvested for grain, 30% 1990, 26% avg. Sorghum 5% fair, 88% good, 7% excellent. Peanuts 11% fair, 81% good, 8% excellent; 1% dug, 1% threshed. Tobacco 10% very poor, 39% fair, 46% good, 5% excellent; 85% harvested, 68% 1990, 71% avg. Watermelons 96% harvested, 97% 1990, 96% avg. Apples 100% good; 30% harvested, 31% 1990, 24% avg. Peaches 95% harvested, 99% 1990, 99% avg. Pecans 3% poor, 13% fair, 84% good. Hay, pastures good. Cattle, hogs good.

HAWAII: Tropical depression created by Hurricane Fefa brought heavy rainfall, gusty winds, and gray skies to the islands. Weather hot, humid. Hawaii island had majority of the impact. Farming activities across the State delayed due to wet, field conditions. Heavy rains created silting, erosion, runoff. Damage to agriculture light. High winds caused some damage vine crops, exposed areas. High winds up to 60 mph at various sites in the island chain. Temperatures high 60s to low 90s. Rainfall 0.03 to 9.30 in.

Days suitable for fieldwork 7. Crops made fair to good progress. Moderate watermelon harvesting. Cucumber plantings suffered vine damages. Chinese cabbage harvesting delayed. Hanalei taro fields flooded on 8th, damage light.

IDAHO: Temperatures above normal across State; select locations in east experienced below normal temperatures. North, south central, east received scattered precipitation; Buhl received most with 0.30 in.

Days suitable for fieldwork 7. Soil moisture 8% very short, 35% short, 57% adequate. Winter wheat good; 92% turning color, 23% harvested. Spring wheat good; 83% turning color, 20% harvested. Spring barley 80% turning color, 18% harvested. Potato good; 98% closing middles, 22% turning, 2% vines dying, killed. Oats 25% harvested, 30% 1990, 32% avg. Second cutting alfalfa 60% complete, 75% 1990, 73% avg. Dry peas 31% harvested, 77% 1990, 57% avg. Lentils 20% harvested, 62% 1990, 35% avg. Mint 42% harvested, 73% 1990, 64% avg. Plum, prune harvest 12% complete. Cherry harvest complete. Livestock in good to excellent. Pasture, range 81% of normal.

ILLINOIS: Temperatures 1 to 2° below normal in the north, central part of the State, while in the southern part of the State. Temperatures normal to 2° above normal. Precipitation generally 0.20 in. to 3.99 in. across the State.

Days suitable for fieldwork 4.50. Soil moisture 75% short, 25% adequate. Corn mature 8%, 0% 1990, 2% avg. Soybeans turning yellow 6%, 0% 1990, 3% avg. Pasture condition as a % of normal, where 100% = normal, was 63%. Alfalfa third cutting 47%, 23% 1990, 43% avg. Alfalfa 1% very poor, 20% poor, 47% fair, 20% good, 1% excellent.

INDIANA: Temperatures 2 to 5° below normal. Highs mid 70s to near 90°. Lows mid 50s to upper 60s. Precipitation 1.00 to 2.00 in. most areas. More in the northwestern, northeastern, less in the east central, far southern areas.

Days suitable for fieldwork 5.1. Topsoil 65% short, 35% adequate. Subsoil 90% short, 10% adequate. Soybeans turning color 4%. Tobacco harvested 8%. Peaches harvested 75%. Alfalfa

hay 3rd cutting 26%. Pasture 36% of normal. Wheat acres plowed 14%, 12% 1990, 12% avg.

IOWA: Temperatures 3 to 6° below normal. Extremes 50 to 96°. Precipitation 0.30 to 5.38 in.; average 2.22 in.

Days suitable for fieldwork 4.1. Topsoil 23% short, 70% adequate, 7% surplus. Subsoil 37% short, 60% adequate, 3% surplus. Hay 2% very poor, 23% poor, 37% fair, 31% good, 6% excellent. Pasture 68% of normal. Corn 74% in milk stage, 57% 1990, 82% avg.; 96% silked, 96% 1990, 99% avg. Third cutting alfalfa 12% harvested, 10% 1990, 20% avg. Second cutting clover hay 80% harvested, 79% 1990, 86% avg. Livestock mostly good condition, cool weather relieving the stress.

KANSAS: Temperatures generally within 2° of normal. Precipitation 1.00 to 2.00 in. central, west, 0.20 to 1.00 in. elsewhere.

Days suitable for fieldwork 5.5. Surface moisture 80% short, 18% adequate, 2% surplus. Subsurface moisture 91% short, 9% adequate. Rain, cool weather boosted corn prospects west, central areas. Development generally ahead schedule. Sorghum showing drought stress most areas, progress generally ahead schedule. Soybeans good growth central, west; poor east, south central. Range, pasture short, some relief noted western, central areas following recent rains. Stockwater adequate. Third cutting alfalfa three fourths complete; fourth cutting delayed by short moisture.

KENTUCKY: Above normal temperatures, rainfall near normal. Daytime highs averaged upper 80s, lows mid 60s, both about 2° above normal. Rainfall high variable, above normal east, below normal west. Rain 0.50 in. west, 0.50 below normal, 1.50 in. east, 0.50 above normal.

Days suitable for fieldwork 5.3. Soil moisture 53% very short, 37% short, 10% adequate. Drought conditions lessened by scattered showers 8th to 9th. Tobacco 9% poor, 70% fair, 21% good. Burley 67% topped or beyond, 52% 1990, 55% avg.; 18% cut, 4% 1990, 5% avg. Corn 20% mature, 1% 1990, 5% avg. Pastures, hay crops poor to fair.

LOUISIANA: Temperatures .8° below normal to 1.8° above normal. Extremes 67°; 98°. Rainfall 0.63 in. northwest to 1.79 in. northeast.

Days suitable for fieldwork 5.4. Soil moisture 33% short, 62% adequate, 5% surplus. Corn 8% very poor, 29% poor, 61% fair, 2% good; 99% mature, 94% 1990, 83% avg.; 50% harvested, 28% 1990, 24% avg. Cotton 100% squaring, 100% 1990, 100% avg. Hay 98% first cutting; 15% final cutting, 26% 1990, 20% avg. Peaches 98% harvested, 93% 1990, 98% avg. Rice 59% ripe, 41% 1990, 34% avg. Second crop management active, southwest. Sorghum 42% ripe, 34% 1990, 27% avg.; 12% harvested, 10% 1990, 9% avg. Sweet potatoes 3% poor, 69% fair, 28% good; 16% harvested, 9% 1990, 8% avg. Sugarcane 13% fair, 77% good, 10% excellent; 2% planted, 2% 1990, 1% avg. Vegetables 2% very poor, 17% poor, 58% fair, 23% good. Pastures 1% poor, 6% fair, 24% good, 69% excellent. Livestock 20% fair, 71% good, 9% excellent. Heavy broiler loss due to high heat index, north central.

MARYLAND & DELAWARE: **MARYLAND:** Precipitation 1.29 in. Temperature 77.9°, normal 75.8°. Extremes 48°; 100°.

Days suitable for fieldwork 5.2. Topsoil 6% very short, 28% short, 55% adequate, 11% surplus. Subsoil 11% very short, 39% short, 44% adequate, 6% surplus. Oats poor to fair; 91% harvested, 72% 1990, 82% avg. Field corn 96% silked, 93% 1990, 91% avg.; 67% dough, 58% 1990, 54% avg.; 31% dent, 32% 1990, 26% avg. Soybeans 73% bloomed, 74%

1990, 65% avg.; 43% set pods, 42% 1990, 38% avg. Sorghum 75% headed; 14% turned. Tobacco 71% bloomed, 70% 1990, 66% avg.; 43% topped, 51% 1990, 42% avg.; 15% harvested, 17% 1990, 10% avg. Sweet corn 79% harvested, 65% 1990, 66% avg. Potatoes 69% harvested, 76% 1990, 59% avg. Watermelons 69% harvested, 69% 1990, 67% avg. Cantaloupes 78% harvested, 76% 1990, 70% avg. Cucumbers 90% harvested, 96% 1990, 96% avg. Lima beans 39% harvested, 26% 1990, 28% avg. Tomatoes 76% harvested, 69% 1990, 56% avg. Other hay second cut 63% complete, 70% 1990, 74% avg. Alfalfa third cut 74% complete, 44% 1990, 53% avg. Hay supplies adequate. Pasture very poor. Peaches, apples good. Peaches 59% harvested, 64% 1990, 52% avg. Apples 10% harvested, 10% 1990, 9% avg.

DELAWARE: Precipitation 1.71 in. Temperature 77.4°, normal 76.3°. Extremes 61°; 94°.

Days suitable for fieldwork 4.5. Topsoil 14% short, 86% adequate. Subsoil 14% short, 86% adequate. Field corn 60% dough, 51% 1990, 48% avg.; 20% dent, 11% 1990, 25% avg. Soybeans 69% bloomed, 67% 1990, 58% avg.; 19% set pods, 13% 1990, 22% avg. Sorghum 82% headed; 13% turned. Sweet corn 59% harvested, 67% 1990, 73% avg. Potatoes 38% harvested, 68% 1990, 64% avg. Watermelons 63% harvested, 36% 1990, 48% avg. Cantaloupes 70% harvested, 80% 1990, 78% avg. Cucumbers 55% harvested, 50% 1990, 70% avg. Lima beans 15% harvested, 13% 1990, 11% avg. Snap beans 69% harvested, 78% 1990, 80% avg. Tomatoes 45% harvested, 60% 1990, 43% avg. Other hay second cut 93% complete, 100% 1990, 90% avg.; third cut 15% complete, 38% 1990, 45% avg. Alfalfa hay third cut 73% complete, 48% 1990, 72% avg. Hay supplies adequate. Pasture poor to fair condition. Peaches, apples good. Peaches 76% harvested, 95% 1990, 70% avg. Apples 12% harvested, 10% 1990, 13% avg.

MICHIGAN: Temperatures 1 to 5° below normal. Extremes 39°; 85°. Precipitation none to 1.95 in. across the State.

Days suitable for fieldwork 5.5. Soil moisture 30% short, 65% adequate, 5% surplus. Corn 25% dough, 1% 1990, 15% avg.; 3% dent, 0% 1990, 2% avg.; 1% very poor, 7% poor, 25% fair, 45% good, 22% excellent. Soybeans 95% blooming, 90% 1990, 90% avg.; 60% setting pods, 35% 1990, 45% avg.; 2% very poor, 6% poor, 22% fair, 45% good, 25% excellent. Wheat 100% harvested, 100% 1990, 100% avg.; Pasture 75% of normal.

MINNESOTA: Temperatures 0 to 7° below normal. Extremes 43°; 91°. Precipitation none to 3.09 in. Greatest weekly total 5.36.

Days suitable for fieldwork 3.7. Topsoil 5% very short, 11% short, 53% adequate, 31% surplus. Spring wheat 31% not swathed, 30% 1990, 26% avg.; 69% swathed, 70% 1990, 74% avg.; 52% combined, 50% 1990, 56% avg. Oats 3% not swathed, 11% 1990, 8% avg.; 97% swathed, 89% 1990, 92% avg.; 86% combined, 70% 1990, 79% avg. Barley 2% not swathed, 5% 1990, 13% avg.; 98% swathed, 95% 1990, 87% avg.; 87% combined, 84% 1990, 75% avg. Field corn 20% not in milk, 45% 1990, 23% avg.; 80% in milk, 55% 1990, 77% avg.; 25% dough, 11% 1990, 32% avg. Soybeans 21% not setting pods, 25% 1990, 14% avg.; 79% setting pods, 75% 1990, 86% avg. Sweet corn 33% harvested, 18% 1990, 33% avg. Field corn 1% very poor, 2% poor, 31% fair, 55% good, 11% excellent. Soybeans 1% very poor, 2% poor, 30% fair, 56% good, 11% excellent.

MISSISSIPPI: Temperatures 83°, 1.6 above normal. Extremes 64°; 101°. Mostly dry with scattered showers. Rainfall 1.07 in., 0.21 above normal. Soil temperature 90°.

Days suitable for fieldwork 5.8, 6.4 1990, 5.6 avg. Soil moisture 9% very short, 50% short, 41% adequate. Corn 88% dough, 87% 1990, 90% avg.; 72% denting, 67% 1990, 74% avg.; 44% mature, 32% 1990, 32% avg.; 5% harvest, 8% 1990, 5% avg.; silage harvest 69%, 46% 1990, 47% avg.; 5% very poor, 19% poor, 41% fair, 31% good, 4% excellent. Cotton 100% squaring, 100% 1990, 100% avg.; 93% setting bolls, 97% 1990, 96% avg.; 1% open bolls, 4% 1990, 4% avg.; 9% poor, 63% fair, 23% good, 5% excellent. Rice 46% heading, 76% 1990, 77% avg.; 4% mature, 4% 1990, 11% very poor, 4% poor, 72% fair, 11% good, 2% excellent. Sorghum 81% heading, 90% 1990, 92% avg.; 50% coloring, 45% 1990, 53% avg.; 40% mature, 15% 1990, 15% avg.; 3% harvest, 2% 1990, 2% avg.; 23% silage harvested, 27% 1990, 27% avg.; 18% poor, 59% fair, 21% good, 2% excellent. Soybeans 62% blooming, 70% 1990, 64% avg.; 32% podding, 47% 1990, 37% avg.; 3% coloring, 3% 1990, 7% very poor, 26% poor, 41% fair, 23% good, 3% excellent. Watermelons 85% harvested, 88% 1990, 81% avg. Hay 75% harvested, 71% 1990, 68% avg. Peaches 97% harvested, 99% 1990, 97% avg.; 28% poor, 47% fair, 24% good, 1% excellent. Pecans 1% very poor, 41% poor, 46% fair, 11% good, 1% excellent. Livestock 8% fair, 62% good, 30% excellent. Pasture 90% of normal.

MISSOURI: Temperatures 2° below normal in northern two thirds, 2° above rest of State. Rainfall 0.50 in., most areas, 1.00 to 3.00 in. central areas.

Days suitable for fieldwork 5.6. Topsoil 75% short, 25% adequate. Subsoil 69% short, 44% adequate. Corn, 85% dough stage or beyond least advanced northeast 68%, most advanced 99% west central; 62% dent stage or beyond, most advanced southern two thirds. Soybeans 78% blooming, 52% podding most advanced northern two thirds of State. Grain sorghum 73% heading, 44% northeast, 87% northwest. Sorghum 32% coloring most advanced southern two thirds State. Alfalfa hay third cutting 60%, 36% 1990, 65% avg. Pasture 27% very poor, 40% poor, 25% fair, 8% good.

MONTANA: Temperatures 2 to 7° above normal. Scattered showers, little precipitation, except heavy showers northeast.

Days suitable for fieldwork 6.7. Topsoil 56% short, 43% adequate, 1% surplus. Subsoil 43% short, 56% adequate, 1% surplus. Winter wheat 2% very poor, 4% poor, 22% fair, 55% good, 17% excellent. Barley harvested 14%, 23% 1990, 26% avg.; 1% very poor, 4% poor, 21% fair, 54% good, 20% excellent. Oats harvested 12%, 25% 1990, 25% avg.; 1% very poor, 2% poor, 17% fair, 61% good, 19% excellent. Sugarbeets 2% very poor, 4% poor, 19% fair, 62% good, 13% excellent. Second cutting alfalfa harvested 44%, 46% 1990, 50% avg. Other hay harvested 90%, 83% 1990, 84% avg. Pasture, range feed condition 95% of normal.

NEBRASKA: Precipitation trace up to 1.67 in. Temperatures 1° below normal in the Panhandle to 7° below normal in the central portion.

Days suitable for fieldwork 5.2. Topsoil 71% short, 27% adequate, 2% surplus. Subsoil 67% short, 33% adequate. Corn 2% very poor, 9% poor, 20% fair, 57% good, 12% excellent; 69% dough, 27% 1990, 53% avg.; 16% dented, 1% 1990, 10% avg. Sorghum 6% very poor, 15% poor, 48% fair, 29% good, 2% excellent; 79% headed, 50% 1990, 74% avg.; 9% coloring, 0% 1990, 7% avg. Soybeans 15% poor, 38% fair, 40% good, 7% excellent; 98% blooming, 95% 1990, 99% avg.; 69% setting pods, 37% 1990, 70% avg. Alfalfa 8% very poor, 20% poor, 29% fair, 39% good, 4% excellent; 30% third cutting, 55% 1990, 43% avg. Pasture, range 78% normal.

NEVADA: Temperatures near normal to slightly above normal. Extremes 34°; 115°. Precipitation none to 1.13. Light precipitation north, central, some heavy western mountain areas. Isolated thunderstorms brought flash flooding to some areas extreme south.

Small grain, garlic harvest continuing. Livestock generally good condition.

NEW ENGLAND: Precipitation 1.05 to 5.15 in. north; 0.75 to 3.20 in. south. Temperatures low to high 60s north, mid 60s to low 70s south; 4° below to 2° above normal. Maximum temperatures low 80s to low 90s; minimum temperatures mid 40s to low 60s.

Days suitable for fieldwork 5.5. Soil moisture 11% very short, 52% short, 37% adequate. Grazing availability 27% very short, 54% short, 19% adequate. Fieldwork 5.4 days ahead of schedule. Maine, Connecticut Valley potatoes good. Rhode Island potatoes fair. Maine oat fair to good. Field corn fair. Sweet corn fair to good. Second cut hay 63% complete, 52% 1990, 52% avg.; fair. Connecticut Valley shade, outdoor tobacco good. Apples 12% harvested, fair to good, size small to medium. Peaches 32% harvested, fair to good. Pears 21% harvested, fair to good. Cranberries good. Blueberry harvest 76% complete, size medium, good. Raspberry harvest 82% complete, good, size medium.

NEW JERSEY: Temperatures below normal. Extremes 49°; 89°. Rainfall 1.16 in. north, south; 1.91 in. central. Heaviest 24 hour total 4.32 in. on 9th, 10th. Estimated soil moisture percent field capacity, 64% north, 63% central, 57% south. Four inch soil temperature 70° north, 73° central, 74° south.

Soil moisture adequate most areas. Fall vegetable planting near completion. Summer vegetable in moderate to good supply. Irish potato digging increased. Blueberry harvest about complete. Peach harvest very active. Apples sizing good; harvest of summer varieties increased. Oat combining well advanced. Field corn, soybean prospects good. Hay, pasture growth improved.

NEW MEXICO: Precipitation with amounts totaling 1.00 to 2.00 in. northeast, southeast plains, as high as 3.00 in. some southwest locations. Cloudy, rainy weather kept temperatures 2 to 5° below normal across the State.

Days suitable for fieldwork 5.1. Soil moisture 4% short, 88% adequate, 8% surplus. Crop conditions: Alfalfa 4% poor, 30% fair, 66% good. Harvest slowed by rains. Corn 100% good. Onions 100% good; rains causing some harvest problems. Chile 40% fair, 60% good; some harvest of green underway. Pecans 40% fair, 60% good. Light hail damage in various areas. Previous week hail damaged acreage still being totalled. Some cotton, chile, onions, and pecans lost in the Mesilla Valley. Cattle, sheep fair to excellent. Range 85% of normal, low of 55, high of 110.

NEW YORK: Wet week, first in a long time. Most areas received between 1.00, 2.00 in. of rain with a few areas receiving over 3.00 in. Temperatures near or a little below normal. Extremes 46°; 89°.

Days suitable for fieldwork 5.4. Soil moisture very short to adequate. Pasture condition 40% of normal. Rainfall helped temporarily relieve dryness. Most corn has tasseled. Need rain for ear development. Oats 76% harvested, 31% 1990, 34% avg. Progress

about 2 weeks ahead of normal. Alfalfa second cutting 81% finished, 70% 1990, 61% avg. Apple fruit size good despite dry weather. Grapes progressing ahead of usual. Sugar content of grapes expected to be high. Vegetable harvesting remained in high gear. Irrigation continued active. Early onion harvest active.

NORTH CAROLINA: Extremes 52°; 98°. Precipitation 0.08 to 5.00 in.

Days suitable for fieldwork 4.6. Soil moisture 9% short, 56% adequate, 35% surplus. Crop condition: Tobacco 1% poor, 22% fair, 68% good, 9% excellent; corn 2% poor, 26% fair, 67% good, 5% excellent; cotton 17% fair, 73% good, 10% excellent; peanuts 15% fair, 79% good, 6% excellent; soybeans 1% poor, 17% fair, 76% good, 6% excellent; hay 1% poor, 22% fair, 72% good, 5% excellent; sweet potatoes 18% fair, 78% good, 4% excellent; apples 4% poor, 20% fair, 68% good, 8% excellent; peaches 20% fair, 71% good, 9% excellent; sorghum 27% fair, 73% good; truck crops 2% poor, 25% fair, 73% good; pasture 21% fair, 73% good, 6% excellent. Harvested: Peaches 89%; flue cured tobacco 37%; corn silage 26%; Hay second cutting 70%, third cutting 35%. Cotton setting bolls 90%; corn soft dough 92%; corn dent 78%; corn mature 46%; soybeans blooming 68%; soybeans setting pods 40%; tobacco topped 95%.

NORTH DAKOTA: Temperatures 6° below normal southeast to normal northwest, southwest. Extremes 42° - southwest; 93° southwest. Precipitation 0.06 in. east central to 1.45 in. north central.

Days suitable for fieldwork 5.8. Topsoil 21% very short, 52% short, 27% adequate. Subsoil 22% very short, 50% short, 28% adequate. Crop condition mostly good. Spring wheat 72% swathed or combined, 60% 1990, 64% avg.; durum 41% swathed or combined, 37% 1990, 45% avg.; oats 81% swathed or combined, 74% 1990, 72% avg.; barley 89% swathed or combined, 88% 1990, 82% avg.; winter wheat 98% swathed or combined, 96% 1990, 97% avg. Corn 77% milk to dough, 61% 1990, 74% avg.; sunflower 85% bloom or beyond, 77% 1990, 81% avg.; flax 73% turning to ripe or beyond 56% 1990, 53% avg.; potatoes 100% rows filled and beyond, 63% 1990, 80% avg.; soybeans 84% fully podded and beyond, 42% 1990, 58% avg.; dry edible beans 81% fully podded and beyond, 57% 1990, 63% avg. Pasture conditions 81% of normal. Alfalfa hay second cutting 76% complete, other hay first cutting 93% complete. Stockwater 3% very short, 48% short, 49% adequate.

OHIO: The first widespread rainfall since June took place. Rainfall varied with most areas receiving 0.50 in. or more, some southwestern areas received more than 2.00 in. High temperatures averaged in the low 80s, lows high 50s.

Days suitable for fieldwork 5.6. Soil moisture 73% short, 25% adequate, 2% surplus. Pastures 39% very poor, 36% poor, 19% fair, 5% good, 1% excellent. Tomato harvest 12%, 2% 1990, 8% avg. Potato harvest 18%, 13% 1990, 15% avg. Summer apple harvest 68%, 46% 1990, 55% avg. Third cut alfalfa 50%, 22% 1990, 24% avg. Second cut other hay 81%, 69% 1990, 74% avg.; third cut 39%, 7% 1990, 9% avg.

OKLAHOMA: Temperatures 4° below normal southwest to 2° above normal northeast. Precipitation none south central to 0.54 in. east central.

Days suitable for fieldwork 6.5. Topsoil 82% short, 18% adequate. Subsoil 72% short, 28% adequate. Wheat 98% ground plowed, 97% 1990, 96% avg.; 28% seedbed prepared, 11% 1990, 23% avg.

Cotton 94% squaring, 98% 1990, 92% avg.; 85% setting bolls, 76% 1990, 66% avg.; 1% open bolls, 1% 1990, 0% avg. Cotton fair. Sorghum 50% headed, 30% 1990, 64% avg.; 18% milk to soft dough, 7% 1990, 26% avg.; 5% mature, 0% 1990, 3% avg. Sorghum good to fair. Soybeans 62% flowering, 51% 1990, 64% avg.; 32% setting pods, 20% 1990, 38% avg.; 1% mature, 0% 1990, 2% avg. Peanuts 89% pegging, 93% 1990, 94% avg.; 58% setting pods, 59% 1990, 61% avg.; 3% mature, 1% 1990, 1% avg. Corn 95% milk to soft dough, 86% 1990, 86% avg.; 15% mature, 18% 1990, 22% avg.; 1% harvested. Pasture condition 83%. Cattle good; marketings average, prices lower.

OREGON: Temperatures slightly below normal, south central, western valleys; remainder of state 4° above normal. Precipitation 0.30 in. fell, north, south central areas; 2.33 in. north central area on 5th; 0.70 in., Plateau area; 0.30 in., Cascades west. Severe thunderstorms north through Cascades, east; flash flooding, north, south central areas; winds to 100 mph, golf ball sized hail, north central area.

Soil moisture 64% short, 34% adequate, 2% surplus. Winter wheat, barley harvest continued. Hay harvest continued across State, exceptional crop, Grant county Spring grains turning, Klamath, Wallowa county Last red raspberry, first blackberry, mid season blueberry, harvest continued; early peaches, yellow transparent apples harvested, Willamette Valley. Red Haven peach harvest continued, Douglas county Pear growth good; Bartlett pear harvest expected middle next week, Hood River Valley; 15th to 22nd, Medford; 19th, Douglas county New orchards planted, Josephine county Cherry growers pruning, The Dalles. Cranberry development good, south coast; Stevens good to excellent, McFarlin, Crowley, fair to good. Snap bean harvest continued, sweet corn, squash, cucumber, broccoli harvest underway, fresh produce stands active, Willamette Valley. Seed potatoes growing rapidly, Wallowa county; potato tubers set, developing, Klamath county; potato harvest continued, Morrow, Umatilla county Livestock good to excellent; very dry conditions, herds moved to alternate pastures, Jefferson county Calves contracted for fall delivery, some yearlings already delivered, Wallowa county Statewide range, pasture 16% poor, 23% fair, 40% good, 21% excellent.

PENNSYLVANIA: Below normal temperatures, slightly above normal precipitation. Temperature 69°, 2° above normal. Extremes 43°; 93°. Precipitation 0.90 in., 0.04 in. above normal.

Days suitable for fieldwork 6. Soil moisture 96% short, 4% adequate. Corn 85% silk, 68% 1990, 74% avg.; 40% dough, 14% 1990, 22% avg.; 5% dent, 2% 1990, 3% avg. Ensilage corn harvested 3% complete. Corn 24% very poor, 28% poor, 25% fair, 19% good, 4% excellent. Soybean 14% very poor, 29% poor, 32% fair, 21% good, 4% excellent. Wheat harvest 100% complete, 91% 1990. Wheat planted 1% complete. Oats harvest 89% complete, 62% 1990. Barley harvest 100% complete, 97% 1990. Tobacco harvest 19% complete. Potato harvest 16% complete, 11% 1990. Second cutting alfalfa 87% complete, 77% 1990. Third cutting alfalfa 36% complete, 21% 1990. Second cutting clover timothy 57% complete, 29% 1990. Feed from pastures 73% very poor, 20% poor, 6% fair, 1% good. Quality of hay made mostly fair. Apple harvest 10% complete, 8% 1990. Peach harvest 51% complete, 27% 1990. Grapes harvest 9% complete, 2% 1990. Fall plowing 8% complete, 7% 1990.

PUERTO RICO: Data Not Available.

SOUTH CAROLINA: Temperatures slightly above normal. Rainfall 0.50 in. mountains to 1.30 in. the north central.

Days suitable for fieldwork 4.5. Soil moisture 9% short, 79% adequate, 13% surplus. Cotton; 52% fair, 48% good; 97% setting bolls, 93% 1990, 87% avg.; 1% open bolls, 2% 1990, 3% avg. Watermelons fair; 89% harvested, 88% 1990, 88% avg. Cantaloupes fair to good; 86% harvested, 84% 1990, 86% avg. Peaches fair to good; 86% harvested, 85% 1990, 85% avg. Apples good; 9% harvested, 4% 1990, 5% avg. Cucumbers fair to good; 90% harvested. Snap beans fair to good; 55% harvested. Sorghum fair to good; 12% harvested, 14% 1990, 11% avg. Soybeans 4% fair, 90% good, 6% excellent; 67% blooming, 57% 1990, 54% avg.; 32% setting pods, 21% 1990, 22% avg.; 1% leaves turning. Tobacco fair to good; 67% harvested, 59% 1990, 52% avg.; 5% stalks destroyed, 4% 1990, 2% avg. Corn fair to good; 80% matured, 85% 1990, 62% avg.; 13% harvested, 28% 1990, 12% avg. Fall hay fair to good; 36% harvested, 25% 1990, 33% avg. Pastures fair to good.

SOUTH DAKOTA: Generally cooler than normal. Temperatures about 3° below normal. Extremes 38°, 95°. Rainfall variable. Maximum 2.84 in. Several stations in the Black Hills over 2.00 in.

Days suitable for fieldwork 3.8. Topsoil 6% critical, 39% short, 45% adequate, 10% surplus. Subsoil 9% critical, 45% short, 38% adequate, 8% surplus. Flax 2% very poor, 3% poor, 21% fair, 54% good, 20% excellent. Sunflowers 1% poor, 15% fair, 69% good, 15% excellent. Livestock 2% fair, 76% good, 22% excellent. Pasture 91% of normal.

TENNESSEE: Severe storms, hail, damaging wind east. Hot, dry west, middle. Temperatures above normal. Rainfall 1.00 to 2.00 in. above normal east, 1.00 in. below normal middle, west.

Days suitable for fieldwork 5.8. Soil moisture 22% very short, 49% short, 27% adequate, 2% surplus. Corn 68% dough, 56% 1990, 75% avg.; 42% dent, 27% 1990, 44% avg.; 2% very poor, 13% poor, 47% fair, 37% good, 1% excellent. Cotton 92% setting bolls, 89% 1990, 95% avg.; 5% very poor, 13% poor, 50% fair, 32% good. Sorghum 70% headed, 76% 1990, 85% avg., 12% turning color, 12% 1990, 48% avg., 2% mature, 0% 1990, 8% avg.; 1% very poor, 13% poor, 59% fair, 26% good, 1% excellent. Soybeans 54% blooming, 58% 1990, 65% avg., 18% setting pods, 27% 1990, 35% avg.; 2% very poor, 15% poor, 49% fair, 33% good, 1% excellent. Tobacco 68% topped, 56% 1990, 53% avg.; burley 14% harvested, 8% 1990, 8% avg.; dark fired 8% harvested, 8% 1990, 6% avg.; dark air cured 8% harvested, 8% 1990, 7% avg.; 4% poor, 32% fair, 63% good, 1% excellent. Pastures 2% very poor, 9% poor, 48% fair, 36% good, 5% excellent. Cattle 2% poor, 24% fair, 70% good, 4% excellent.

TEXAS: Stable air mass controlled much of State. Rain concentrated over southern, eastern parts of State. High pressure weakened by tropical waves crossed Texas coast bringing moist air, significant rains to Coastal Plains, South Texas. At weekend cold front pushed into North Texas, Southern Low Plains focusing rain in those areas. Temperatures remained reasonable over much of State. Panhandle, Red River counties caught cooler air behind front. Rainfall departures reflected showers focused along front in Low Plains. South central, Southeast Texas had some rain, not match increasing average amounts occurred time of year. Northern High Plains dry compared to normal. All divisions except Upper Coast lower than average.

Crops: Corn continued excellent progress. Silage harvest began in High Plains. Central Texas, early harvest had some aflatoxin problems not expected. Few High Plains producers continued spraying for mite, borer control. Yields so far above average, excellent. Corn 54% mature, 62% 1990, 61% avg. Corn 30% harvested, 46% 1990, 41% avg. Sorghum harvest virtually complete South Texas, Central Texas. Harvest began in Hill Country, good, excellent yields expected. Sorghum 62% mature, 54% 1990, 53% avg.; 60% harvested for grain, 45% 1990, 45% avg. Cotton harvest continued good progress with few delays. Scattered showers in Rio Grande Valley threatened unharvested cotton. Fields in Central Texas began showing signs of moisture stress. Irrigated fields making good, excellent progress while some dryland fields making poor progress in Plains due inadequate moisture. Cotton 8% harvested, 4% 1990, 6% avg. Rice harvest continued progressing during week. Soybean harvest continued in Blacklands. State peanut crop continued good progress. Disease problems still occurring in Hill Country. Peanuts 2% poor, 28% fair, 60% good, 10% excellent.

Commercial Vegetables: Rio Grande Valley, producers received needed moisture to continue field operations. East Texas, fall planting preparation begun. Sweet potato harvest began as watermelon harvest neared completion. High Plains, onions being dug, other vegetables maturing. Watermelon, cantaloupe harvest progressing. Pecan trees still showing effects of hot, dry weather, insect damage. Overall, crop looking good.

Range and Livestock: Range, pastures remained fair, good condition across State. Limited supplemental feeding began with declining grazing some areas. Range, pasture 7% poor, 34% fair, 44% good, 15% excellent.

UTAH: Temperature maximums about 3° less than normal, minimums approximately 1° less than normal. Precipitation all divisions; amounts light in the western, north central divisions, moderate elsewhere.

Days suitable for fieldwork 6.4. Soil moisture 72% short, 28% adequate. Winter wheat 99% ripe; 79% harvested, 89% 1990, 87% avg. Spring wheat 82% ripe; 53% harvested, 71% 1990, 62% avg. Barley 77% ripe; 52% harvested, 74% 1990, 69% avg. Oats 85% turning; 39% ripe, 67% 1990, 67% avg.; 15% harvested for grain, 40% 1990, 28% avg.; 73% harvested for silage, 84% 1990, 75% avg. Corn 69.7 in. high, 71.4 in. 1990, 71.4 in. avg.; 65% tasseling, 80% avg. Alfalfa second cutting 75% complete, 88% 1990, 89% avg.; third cutting 5% completed. Other hay harvest continued at normal pace. Pasture, range mostly fair to good. Irrigation water supply 4% very short, 66% short, 30% adequate. Stockwater supply 44% short, 56% adequate. Hay, roughage 16% short, 76% adequate, 8% surplus. Tart cherry harvest 79% complete. Apricot harvest 80% complete.

VIRGINIA: Seasonable temperatures, rain brought by a cold front. Extremes 53°; 100°. Precipitation 0.21 to 4.33 in.

Days suitable for fieldwork 4.8. Topsoil 2% very short, 27% short, 55% adequate, 16% surplus. Corn 85% silked, 81% 1990, 79% avg.; dough stage 60%, 49% 1990, 44% avg.; dented 37%, 27% 1990, 23% avg.; silage harvested 4%, 3% 1990, 3% avg.; 10% very poor, 17% poor, 30% fair, 31% good, 12% excellent. Soybeans bloomed 58%, 55% 1990, 46% avg.; setting pods 35%, 32% 1990, 27% avg.; 20% poor, 61% fair, 18% good, 1% excellent. Flue cured tobacco harvested 26%,

21% 1990, 11% avg. Fire cured tobacco harvested 10%, 15% 1990, 6% avg. Burley tobacco harvested 3%. Sun cured tobacco harvested 7%. Tobacco 38% fair, 52% good, 10% excellent. Topping, suckering, harvesting tobacco very active. Peanut 20% poor, 20% fair, 40% good, 20% excellent. Potato harvest nearing completion at 98% harvested. Apple, peach harvest continued. Apple 30% fair, 50% good, 20% excellent. Alfalfa 12% poor, 27% fair, 47% good, 14% excellent. Other hay 25% poor, 23% fair, 47% good, 5% excellent. Pasture 7% very poor, 17% poor, 23% fair, 48% good, 5% excellent. Livestock mostly good. Cutting hay planting fall crops of cucumbers, peppers, snapbeans.

WASHINGTON: Temperatures 5° above normal to 1° above normal, east; 8° above normal to 4° above normal, west. Precipitation none to 0.34 in. east; 0.32 to 0.91 in. west.

Days suitable for fieldwork, 6.5. Soil moisture 66% short, 34% adequate. Hay, other roughage 7% short, 81% adequate, 12% surplus. Irrigation water 3% very short, 97% short. Range, pasture 39% poor, 39% fair, 9% good, 13% excellent. Wheat 7% poor, 36% fair, 57% good. Barley 4% poor, 19% fair, 75% good, 2% excellent. Potatoes 100% good. Dry beans 100% good. Winter wheat 33% harvested. Spring wheat 15% harvested. Barley 25% harvested. Potatoes 8% harvested. Dry peas 21% harvested. Alfalfa hay, 2nd cutting 81%; 3rd cutting 24%. Wheat harvest was in full swing in central Washington, while eastern Washington was just starting. Test weight for central areas 57 to 58 pounds per bushel, 44 pounds typical for barley. Dry pea harvest was in full swing in Spokane County, where grass harvest was mostly finished with average or below average yield. Raspberry harvest was completed. Harvest of summer vegetables was in progress. Early apple harvest started in Benton County.

WEST VIRGINIA: Temperature 72°. Extremes 49°; 96°. Precipitation 1.34 in.

Days suitable for fieldwork 5.11. Soil moisture 18% very short, 41% short, 41% adequate. Corn, 4% very poor, 24% fair, 72% good; 83% silked, 58% dough stage. Oats good; 98% ripe, 92% headed, 75% harvested. Gardens, 13% very poor, 47% fair, 40% good. Tobacco, good; 30% topped. Hay, 5% very poor, 20% poor, 45% fair, 30% good; 100% first cutting, 39% second cutting. Apples fair. Peaches poor. Pastures, 14% very poor, 17% poor, 63% fair, 6% good; 67% of normal. Cattle, good. Sheep, good.

WISCONSIN: Temperature 65°, 4° below normal. Extremes 38°; 89°. Precipitation 0.10 to 2.80 in.

Days suitable for fieldwork 3.6. Soil moisture 18% short, 72% adequate, 10% surplus. Pasture 74% of normal, 85% 1990, 69% avg. General condition of crops 4% poor, 18% fair, 70% good, 8% excellent. Corn condition 1% very poor, 6% poor, 16% fair, 56% good, 21% excellent; silked 89%, 82% 1990, 89% avg.; in dough 46%, 11% 1990, 30% avg.; in dent 11%, 1% 1990, 5% avg. Soybean 2% poor, 16% fair, 58% good, 24% excellent. Second crop hay 81% harvested, 80% 1990, 78% avg. Third crop hay harvested 9%, 11% 1990, 10% avg. Oats harvested for grain 69%, 55% 1990, 65% avg.

WYOMING: Temperatures below normal. Precipitation below normal.

Days suitable for fieldwork 6.4. Topsoil 34% short, 66% adequate. Winter wheat small amount turning color; 25% mature, 20% 1990, 15% avg.; 75% harvested, 80% 1990, 85% avg. Barley 20% turning color, 10% 1990, 15% avg.; 30% mature, 40% 1990, 40% avg.; 50% harvested, 50% 1990, 45% avg. Spring wheat 15% turning color, 20% 1990,

20% avg.; 45% mature, 50% 1990, 40% avg.; 40% harvested, 30% 1990, 40% avg. Oats 25% turning color, 55% 1990, 30% avg.; 50% mature, 35% 1990, 40% avg.; 25% harvested, 10% 1990, 25% avg. Second cutting alfalfa 40% completed, 40% 1990, 45% avg. Other hay 80% harvested, 85% 1990, 80% avg. Dry beans 100% in bloom, 75% 1990, 85% avg.; 80% setting pods, 50% 1990, 70% avg.;

small amount leaves turning color, small amount 1990. Corn 95% tasseled, 90% 1990, 85% avg.; 55% silked, 55% 1990, 60% avg.; 15% milk, 20% 1990, 20% avg.; small amount dough, small amount 1990. Livestock to be wintered: cattle 101% of 1990, sheep 98% of 1990. Ranges, pastures good to excellent. Stockwater 20% short, 80% adequate.

(Continued from front cover)
a few southern and eastern sites. Isolated storms continued in the **South and Intermountain West**. An unusually strong summer storm system dumped heavy rain in the **Pacific Northwest**, including nearly 6 inches in **Quillayute, WA**. Toward week's end, the front edged southward, dumping heavy rain from the **central Appalachians** to the **mid-Atlantic coast**. Temperatures south of the front neared the 100° F mark, but to its north, autumn-like highs in the seventies were common. Hot weather enveloped the **West**. High temperatures on Friday reached as high as 114° F in **Arizona** and 103° F in **Idaho**. The week ended as it began in **New England**, with significant rain falling. Elsewhere, thunderstorms continued from the **Southwest** to the **Southeast**.

International Weather and Crop Summary

HIGHLIGHTS

August 4 - 10, 1991

USSR ... In Western USSR, variable showers slow winter grain harvesting in the west, while dry weather continues in the east. In the New Lands, widespread showers come too late for maturing grains.

EUROPE ... Widespread showers across the region slow winter grain harvesting but favor corn development in France.

EASTERN ASIA ... Additional flooding is possible along the lower Yangtze Valley, while rains ease drought in the southeast. Beneficial drier weather prevails across the North China Plain.

SOUTHEAST ASIA ... Showers benefit Thailand's rainfed rice areas. Widespread showers benefit most Philippine crops.

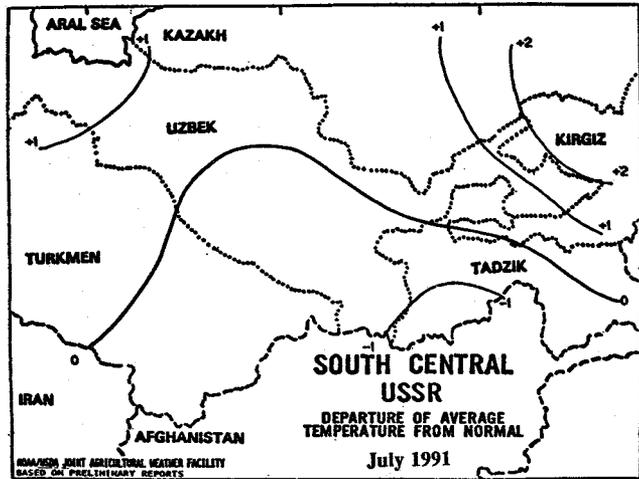
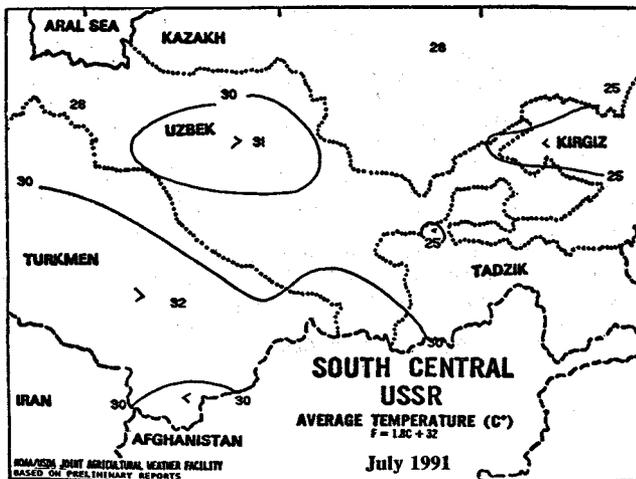
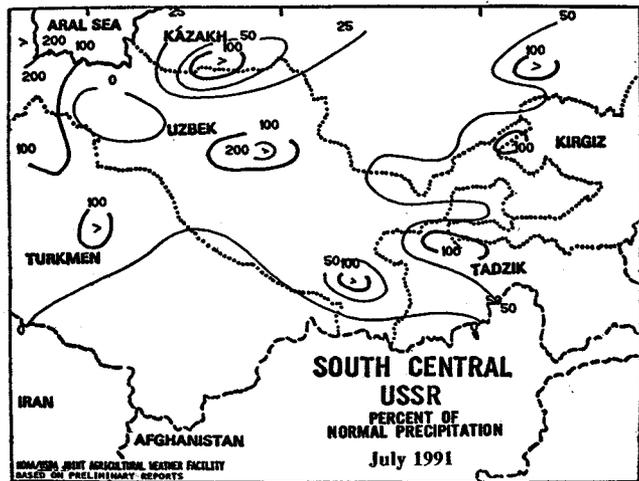
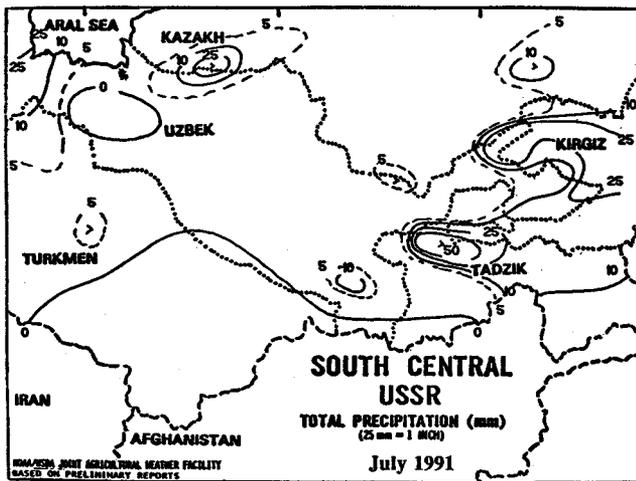
SOUTH ASIA ... Showers in northern rice areas favor late transplanting.

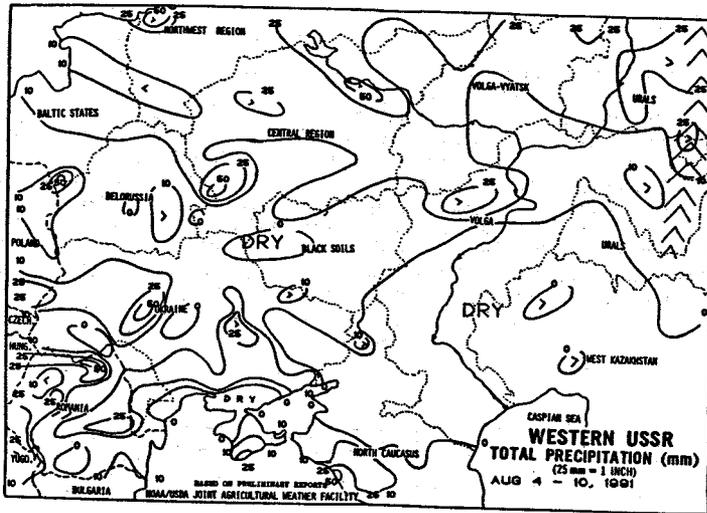
SOUTH AMERICA ... Wheat planting nears completion in Argentina.

AUSTRALIA ... Moisture is adequate for winter grains in most areas.

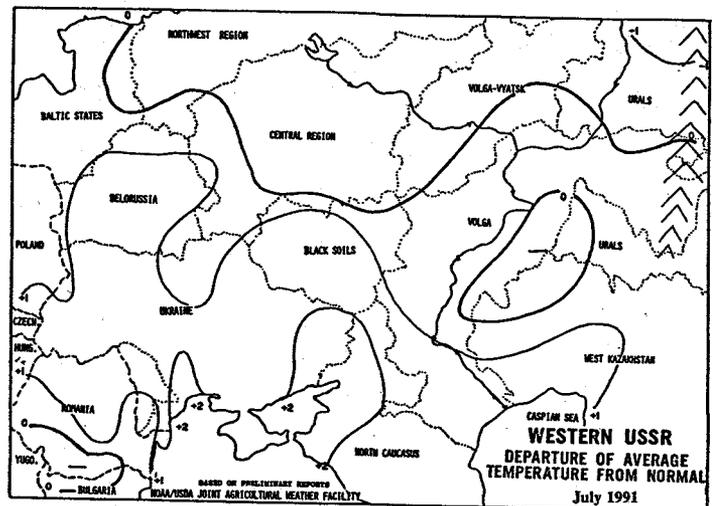
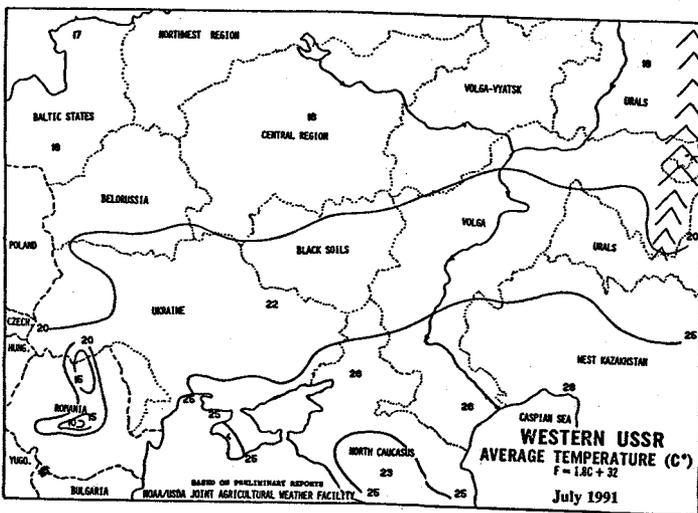
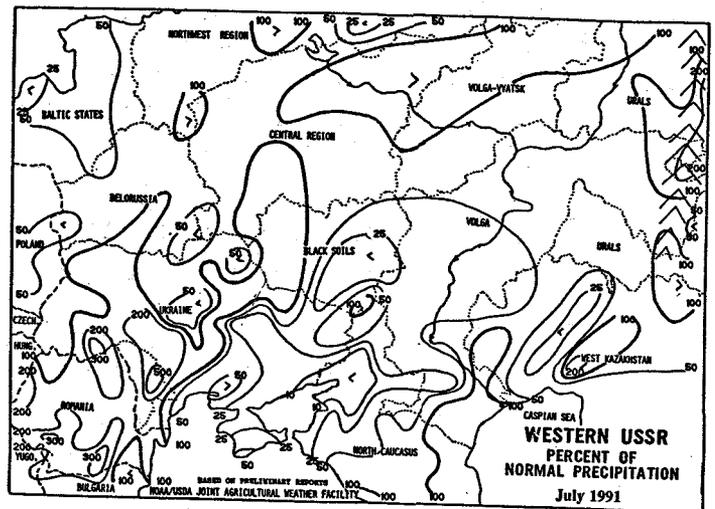
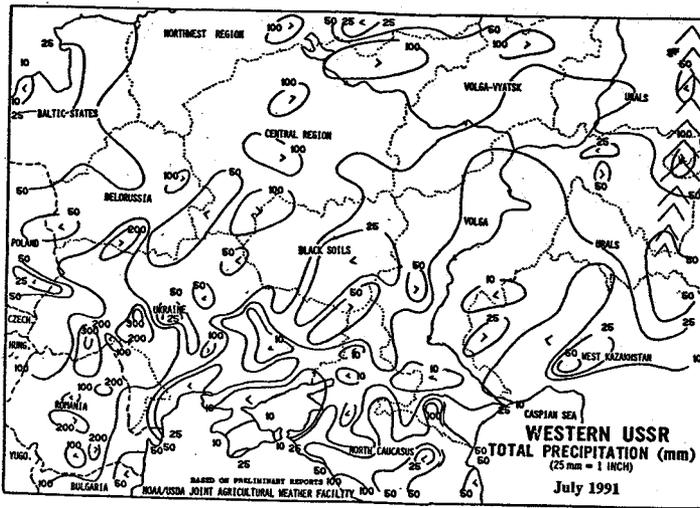
CANADA ... Late-week hot, dry weather in the western Prairies stresses immature grains and oilseeds.

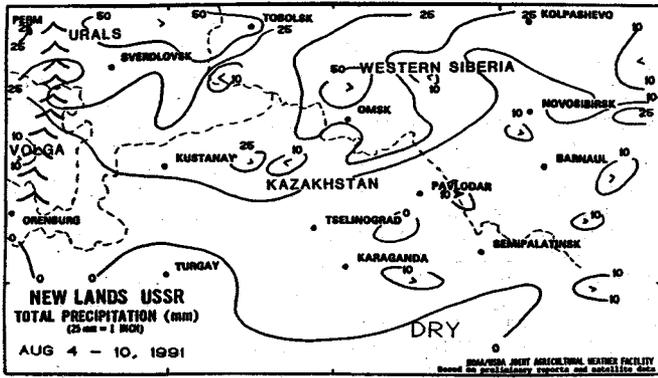
MEXICO ... Moderate seasonal rains continue to favor summer crops.



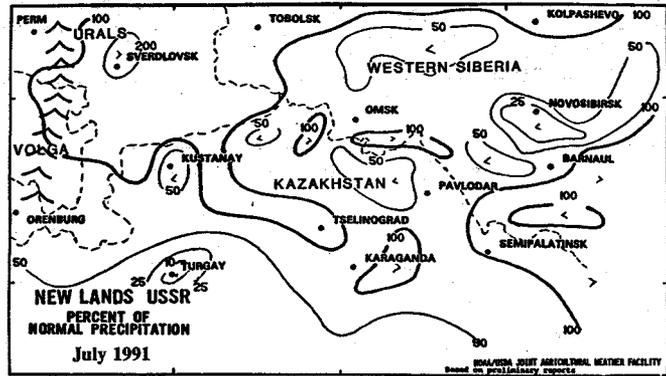


USSR ... In the European USSR, continued unseasonable warm, dry weather in July covered the eastern Ukraine, North Caucasus, eastern Black Soils Region, and the Volga. While July's hot, dry weather accelerated spring grain ripening and stressed corn which advanced through reproduction, it helped winter grain harvesting. Frequent showers and thunderstorms over Moldova and the southwestern Ukraine produced 2-3 times the normal amount of July rainfall, causing local flooding, harvest delays, and crop lodging. Moderate to heavy rain continued into early August, exacerbating flood conditions in these areas. Showers diminished this past week, although substantial amounts of 20-59mm were scattered across the region. Continued dry weather over the Volga and North Caucasus allowed harvests to progress without delay.

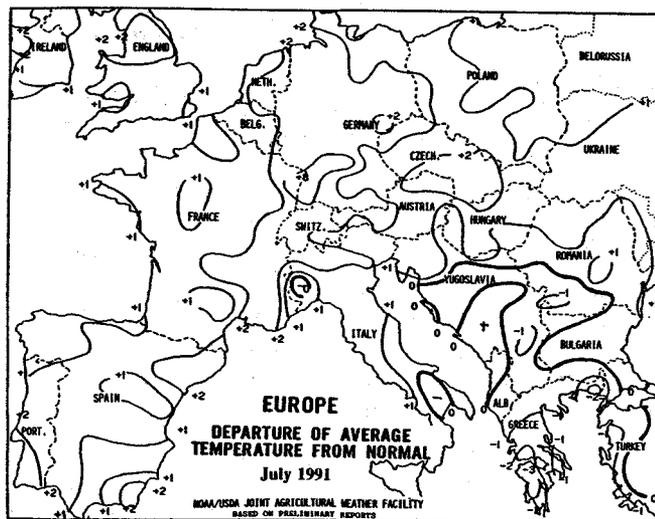
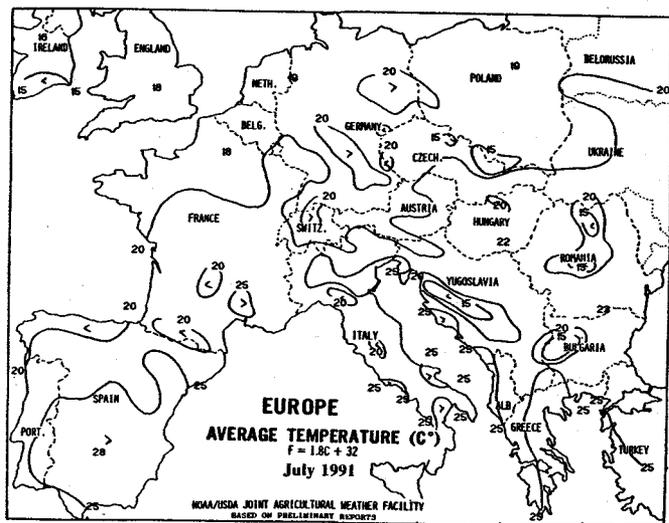
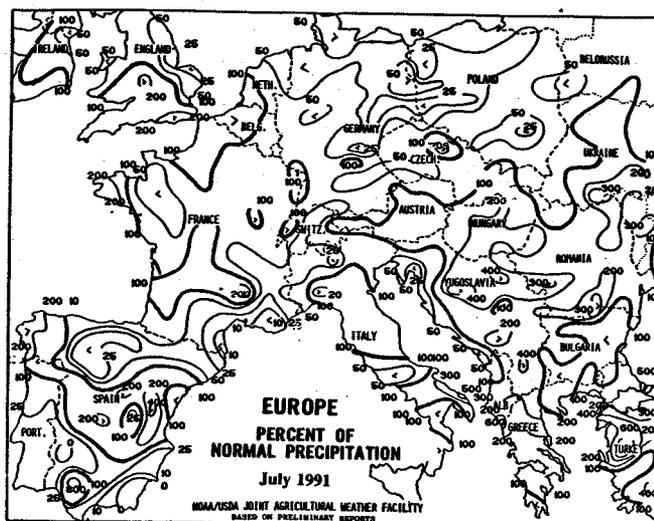
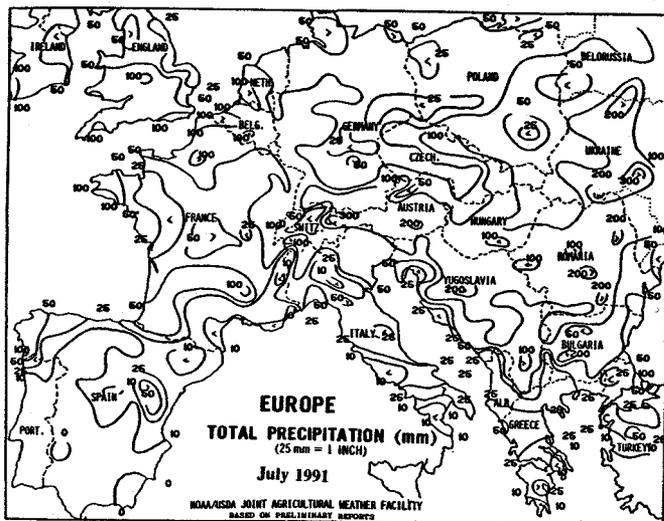
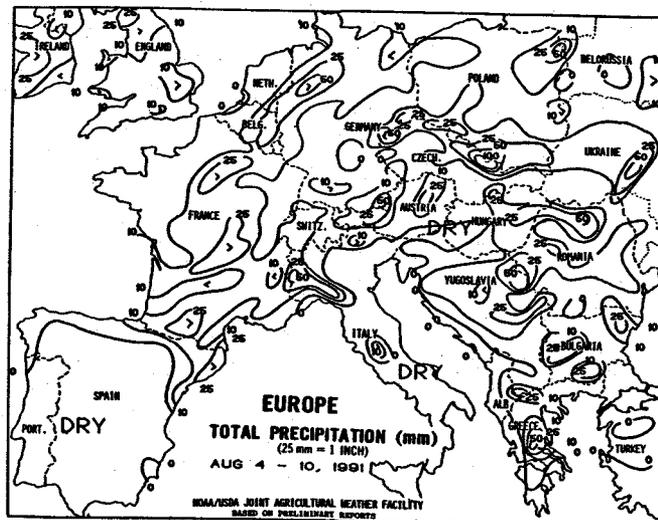


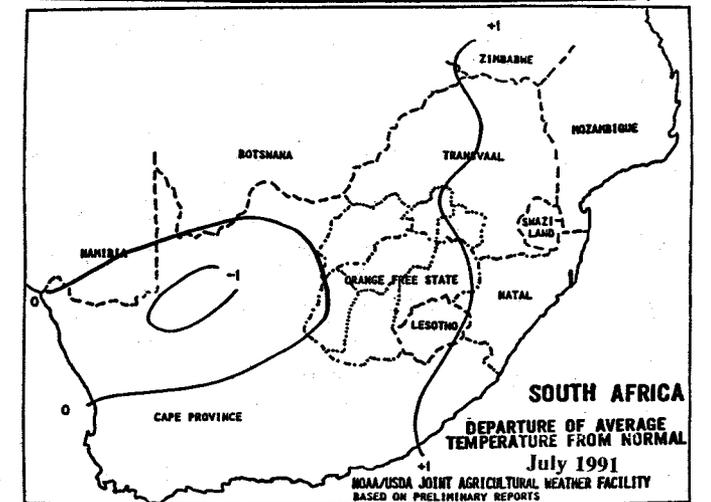
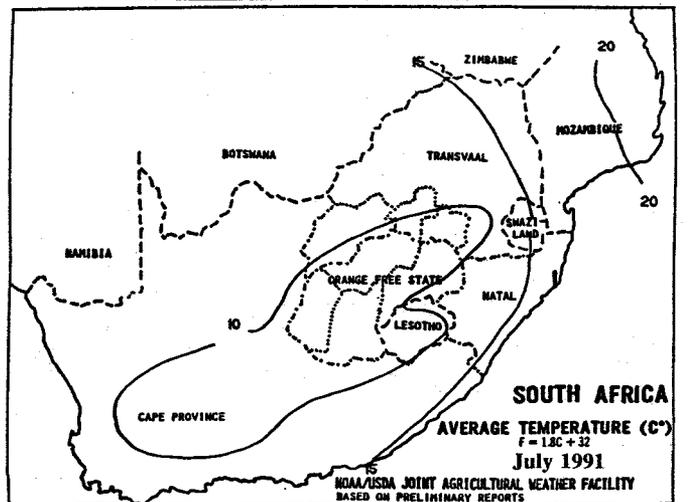
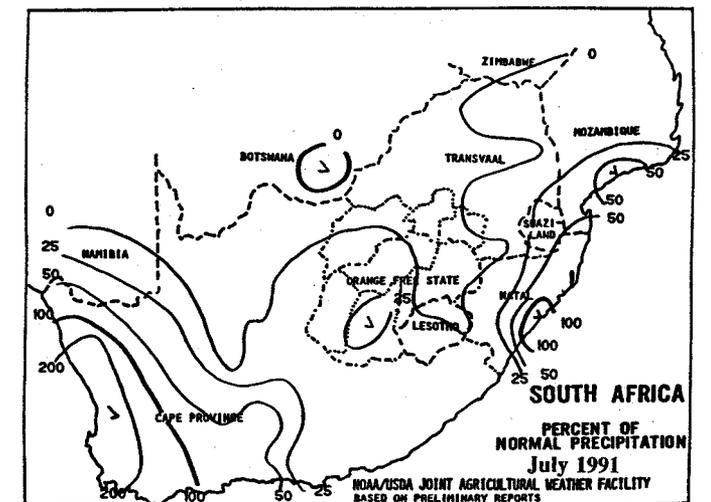
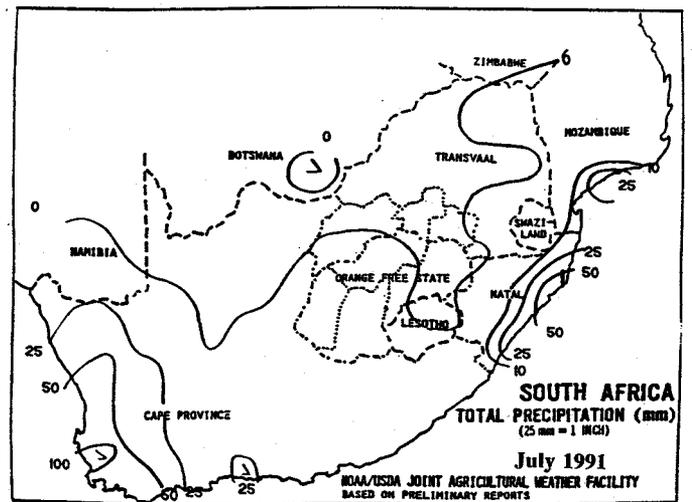
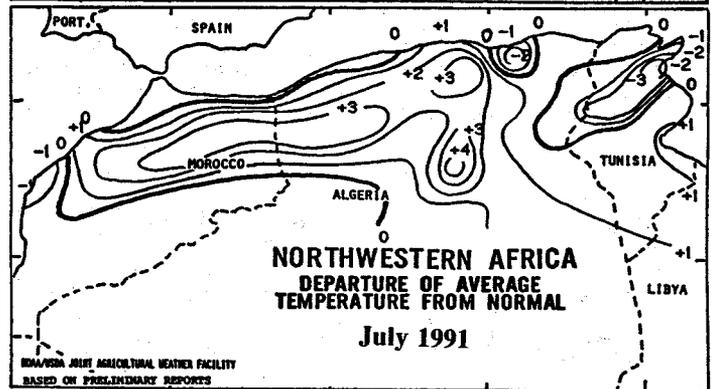
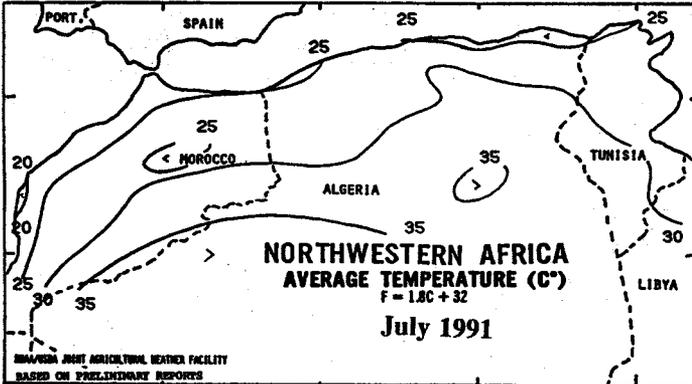
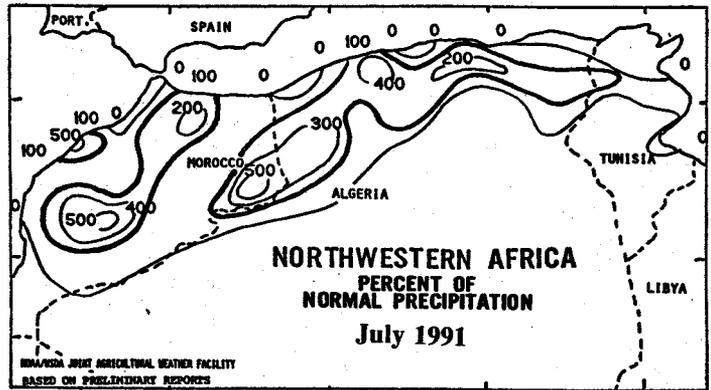
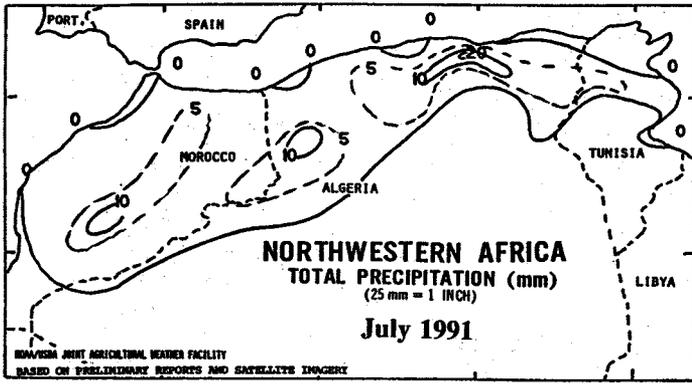


In spring grain areas east of the Ural mountains, above-normal July precipitation helped to alleviate dryness in the northwest. The first significant precipitation since early April began over crop areas in the southern Urals, Kazakhstan, and the western portion of West Siberia about July 15 and lasted through early August. Widespread rain this past week produced 20-61mm from the Urals to Western Siberia. While the showers eased the severe moisture deficiency, the rain came too late to help drought-stressed maturing crops.

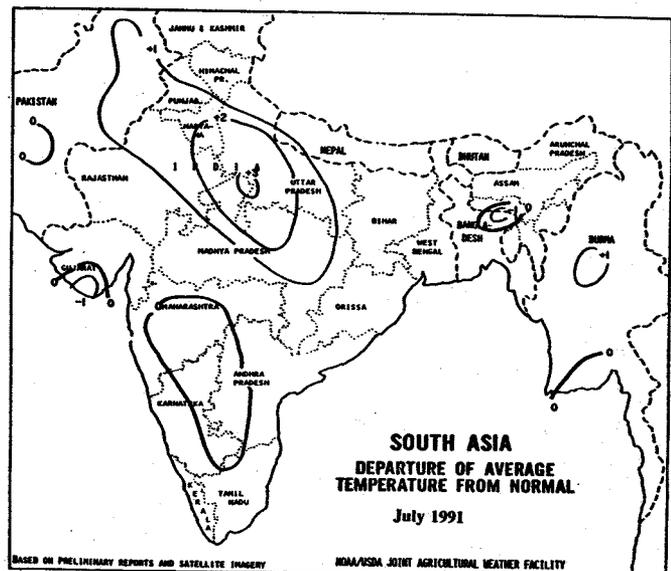
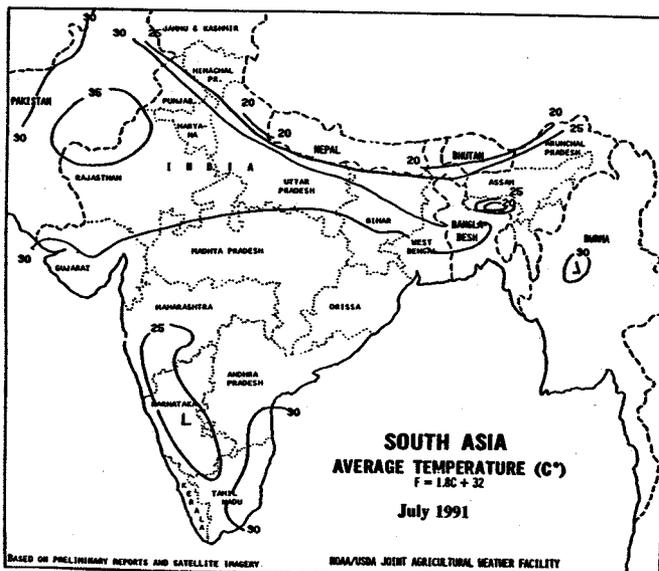
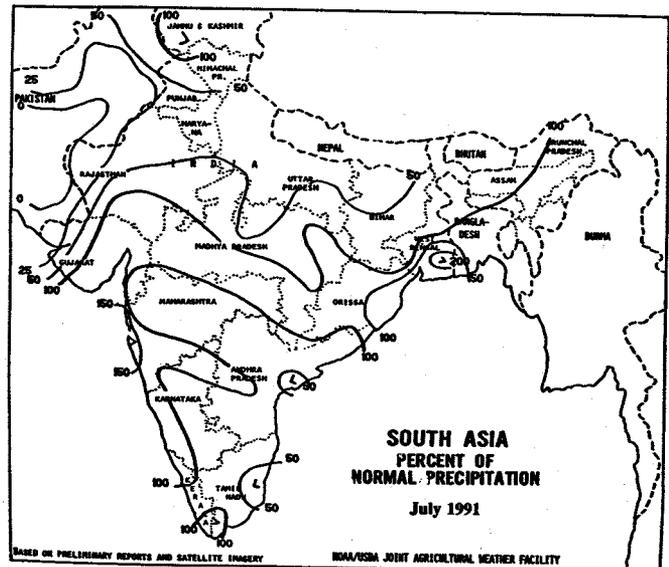
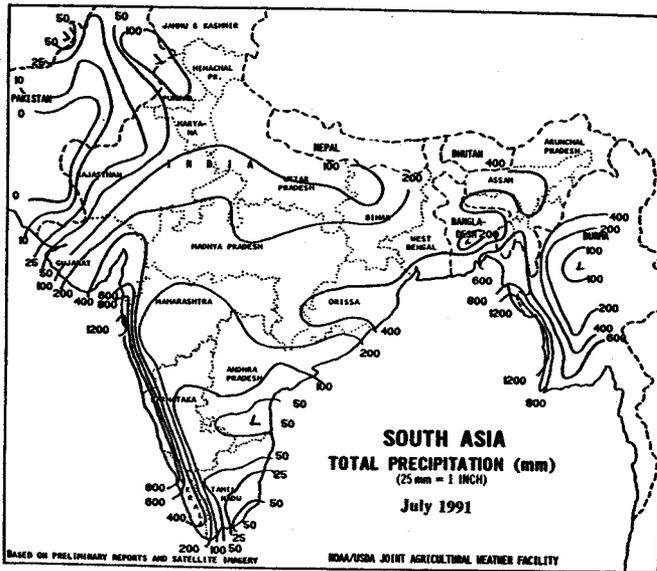
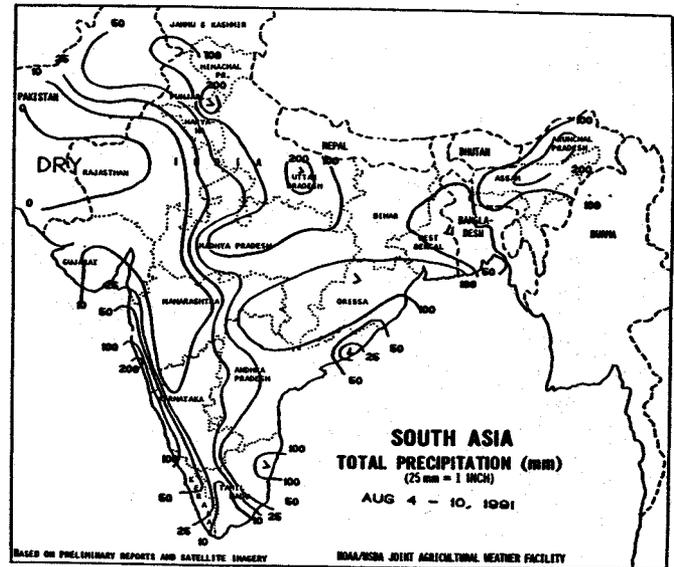


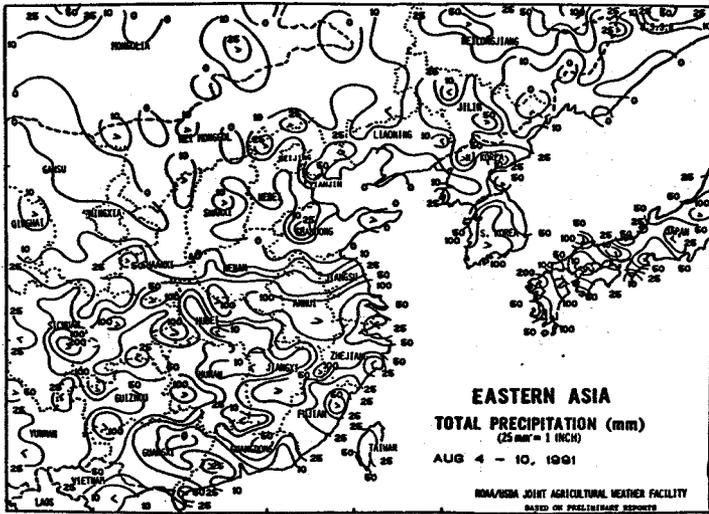
EUROPE ... Widespread showers covered much of the region, except over most of the Iberian peninsula and Italy. Weekly rainfall generally averaged less than 20mm, with several days of dry weather, allowing the grain harvest to slowly progress in most areas. Scattered heavier showers (20-50mm) benefited some corn areas in France, and summer crop areas of northern Germany, and southern Poland, but the moisture also slowed winter grain harvesting in those areas. Locally heavy showers along the border of Yugoslavia and Romania kept those areas unfavorably wet. In July, well above-normal monthly rainfall inundated southeastern Europe, causing some flood damage. The below-normal July rainfall pattern across much of northern Europe favored ripening of winter grains, and mild temperatures promoted summer crop development. Near- to above-normal July rainfall was reported over extreme northern and southwestern France, favoring reproductive corn, which had limited moisture reserves.



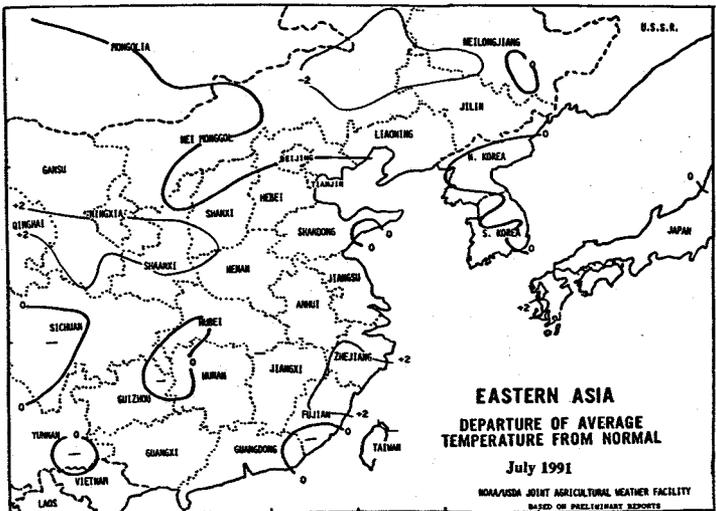
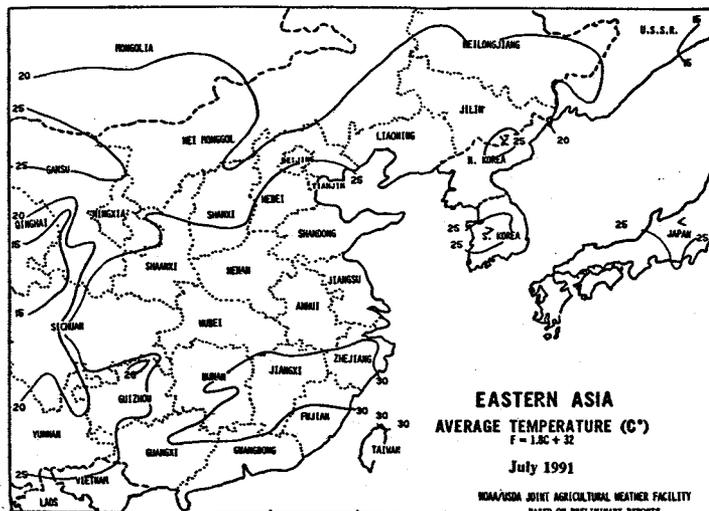
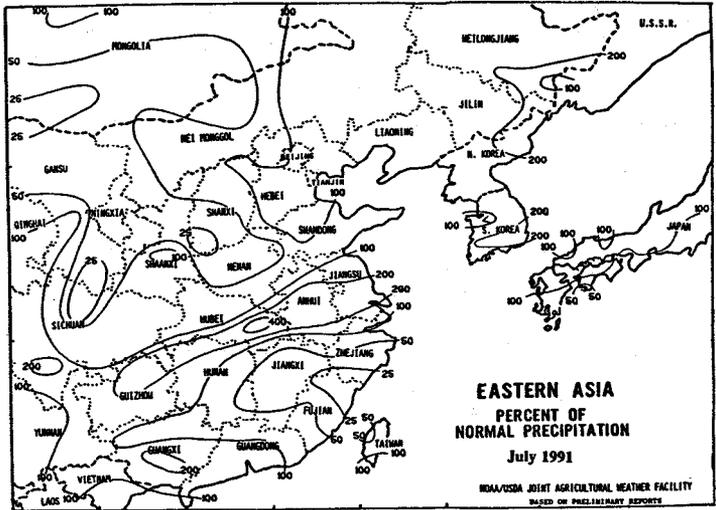
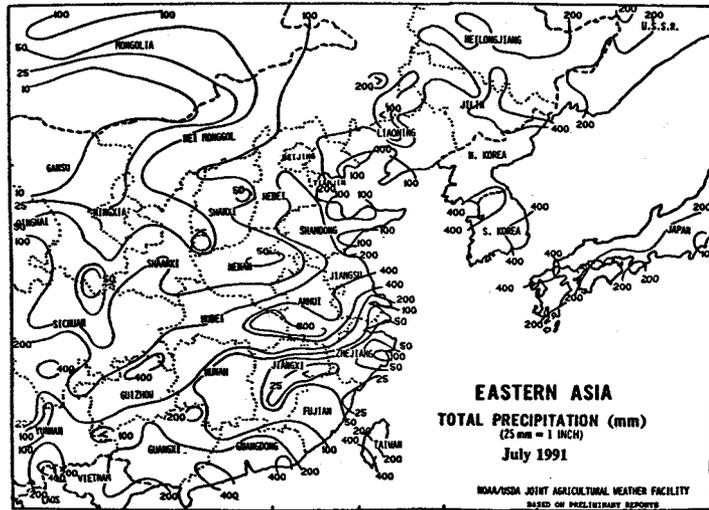


SOUTH ASIA ... Highly variable showers (15-247mm) continued over northern India and Pakistan, boosting moisture for late rice transplanting, but drier weather (rainfall totaling 15mm or less) dominated groundnut and cotton regions of Gujarat, Maharashtra, and western Madhya Pradesh. Moderate to heavy rain (50-100mm or more) continued across most oilseed and rice areas of central and eastern India and Bangladesh, maintaining abundant moisture for vegetative to reproductive growth but causing more flooding. Widespread rain (15-100mm or more) benefited vegetative to reproductive crops in the southern interior. During July, the monsoon progressed into oilseed and cotton regions of central and western India but stalled before reaching rice regions from Punjab to northern Bihar, resulting in drier- and warmer-than-normal conditions. Conditions elsewhere were generally favorable for vegetative to reproductive crops, although a drying trend developed over the southern interior by month's end.

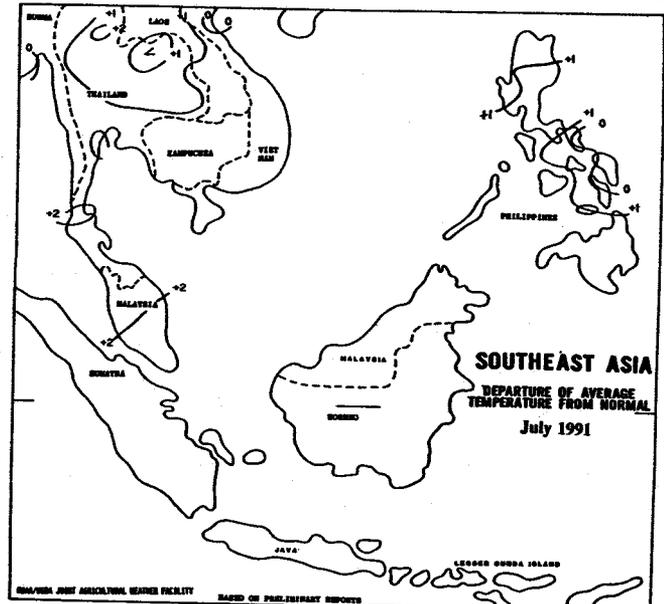
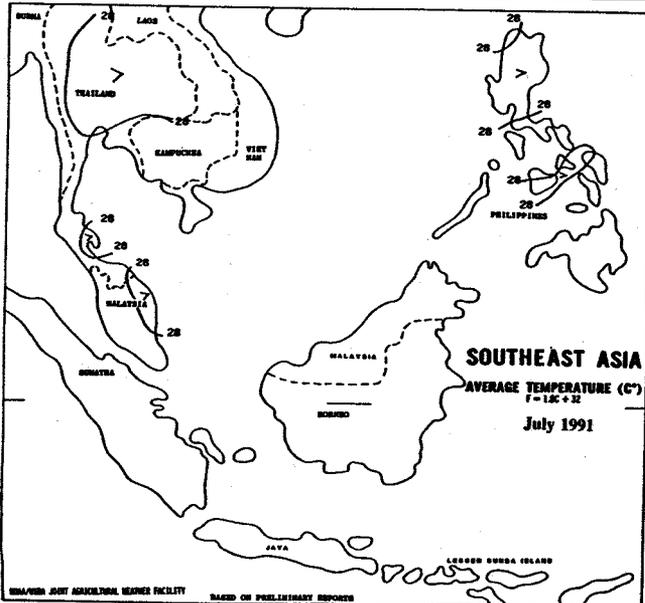
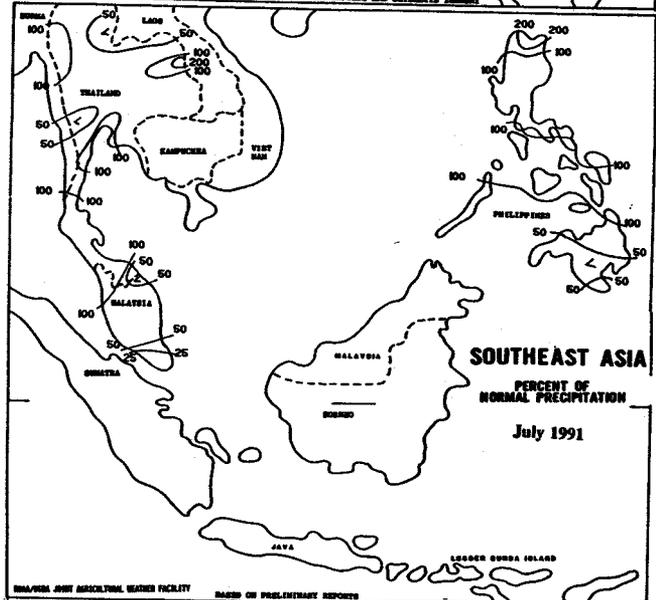
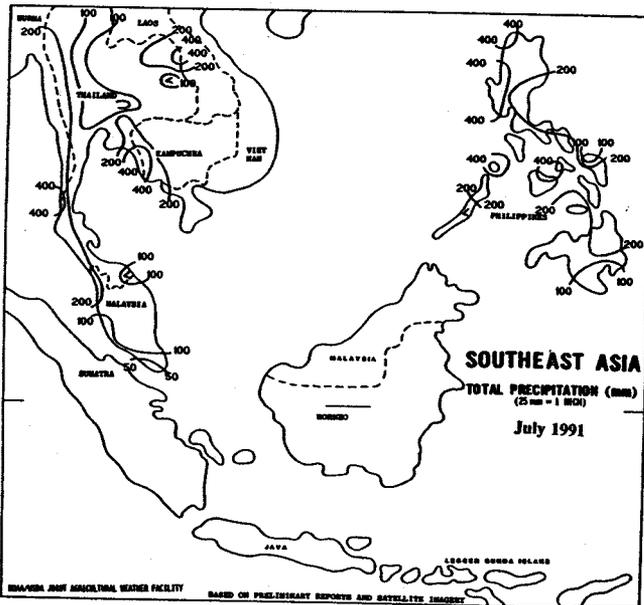
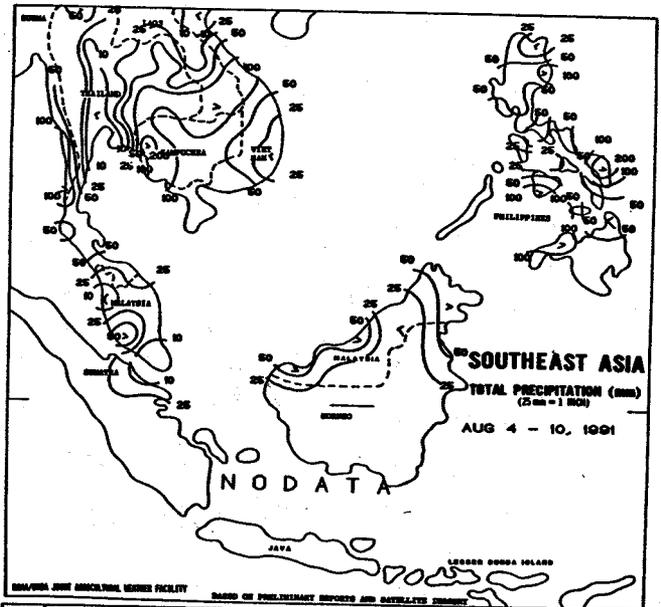


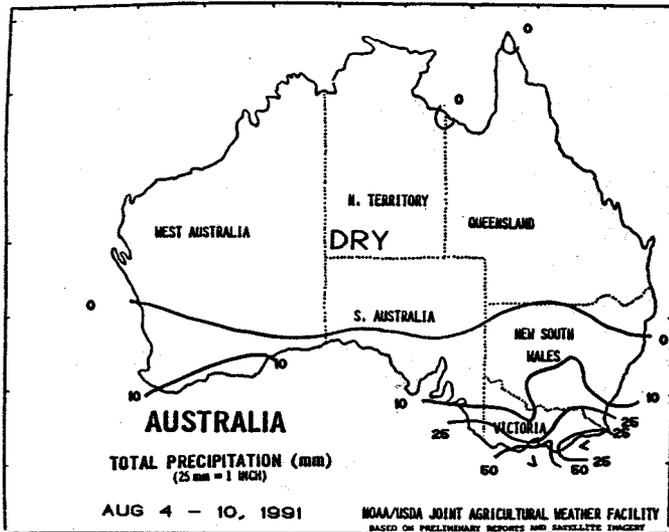


EASTERN ASIA ... Moderate to heavy rains (50-150mm) fell along the northern Yangtze Valley (Jiangsu, Anhui, Henan, and Hubei), raising the flood potential again in areas flooded last month. The excessive wetness in those regions will impact single- and late-season rice. Southern China received scattered highly variable rainfall, but significant showers (20-87mm) benefited drought-stricken Jiangxi and Fujian, and late-season rice elsewhere. The North China Plain remained mostly dry, benefiting maturing corn and pod-filling soybeans, after previous heavy rains. Showers (10-50mm) across Manchuria hampered drying of mature spring wheat and corn. In July, 400-600mm of rain (2-4 times normal) soaked the lower Yangtze Valley, which already received above-normal June rains. The storms produced widespread flooding and potential crop damage to cotton, winter wheat, and rice. Conversely, just to the south in Jiangxi and Fujian, rainfall averaged only a half to a quarter of normal. Portions of the North China Plain received beneficial below-normal rainfall for winter wheat harvesting, while from Beijing northeastward, normal- to above-normal amounts fell. Temperatures in July averaged near normal for most areas, except in Manchuria, where temperatures were 1-2 degrees C below normal.

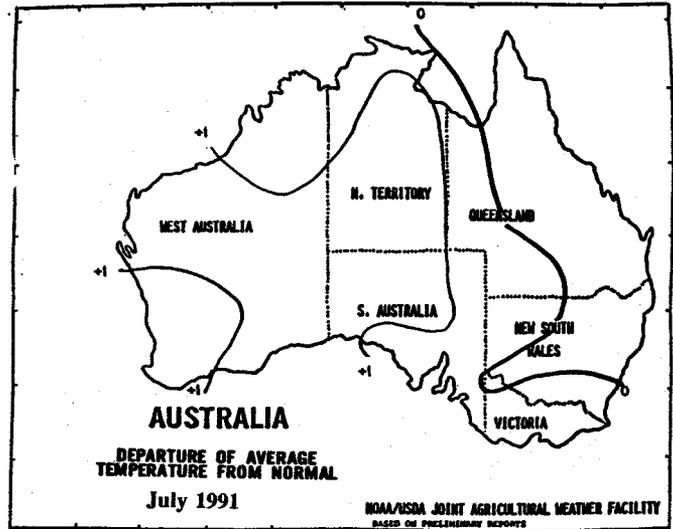
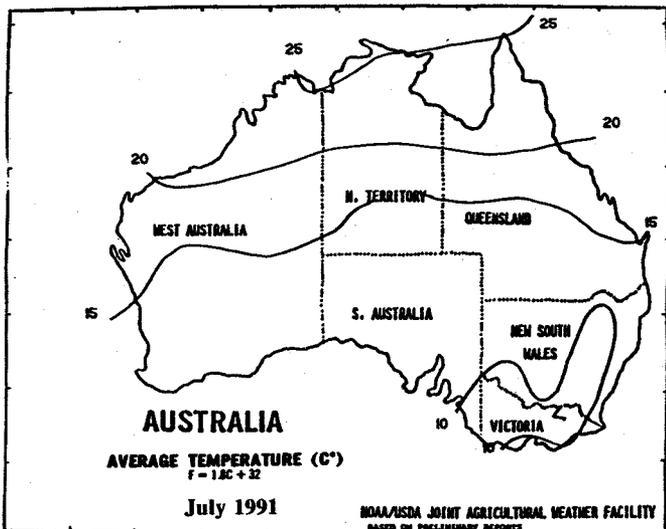
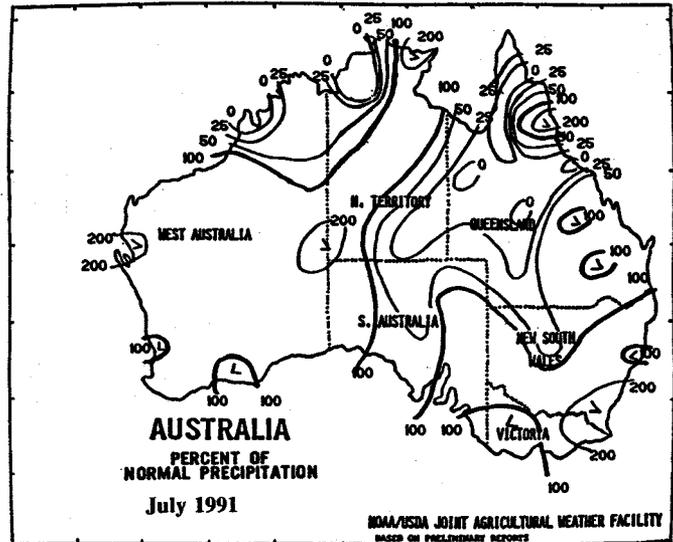
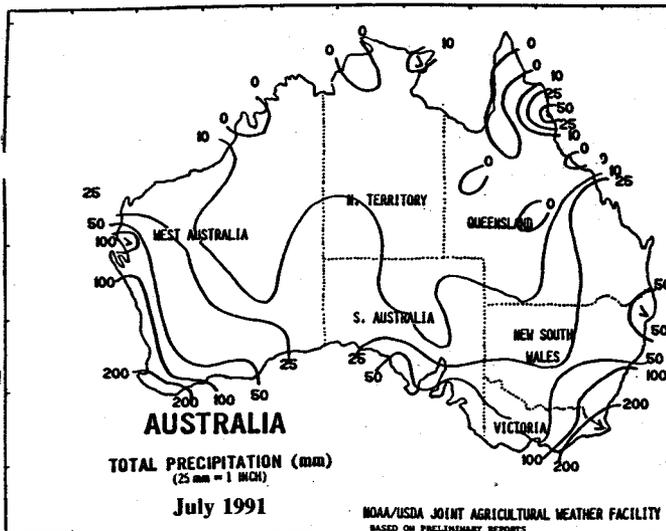


SOUTHEAST ASIA ... Moderate to heavy showers (25-129mm) covered most rainfed rice regions of eastern Thailand, boosting moisture for crop growth and, in the northeast, late transplanting. However, drier and warmer conditions continued over Thailand's central grain regions, hastening corn maturation. During July, the continuation of this season's drier- and warmer-than-normal weather maintained unfavorable conditions for reproductive to filling corn and reduced moisture for rainfed rice transplanting and growth. In the Philippines, showers (25-100mm or more) continued over most crop regions, reflecting July's trend of increased rainfall due to an increase in tropical storm activity. However, local flooding the latter half of July caused some crop damage in Luzon's western and northern grain regions.

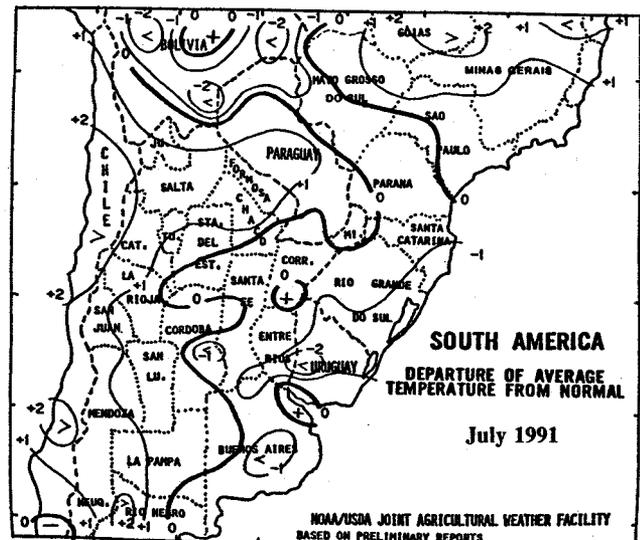
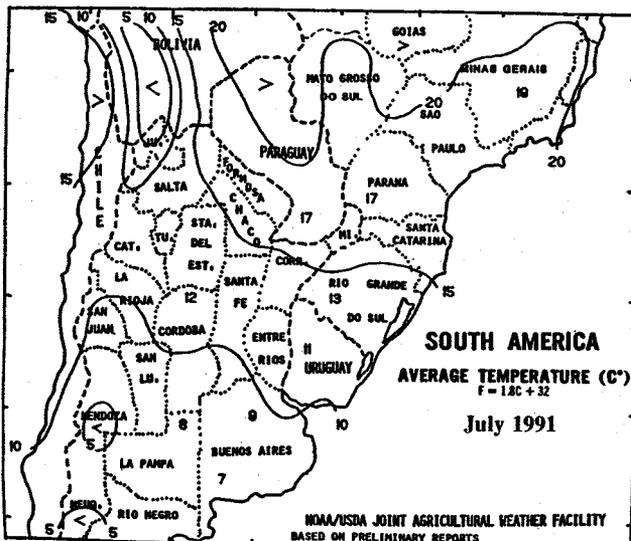
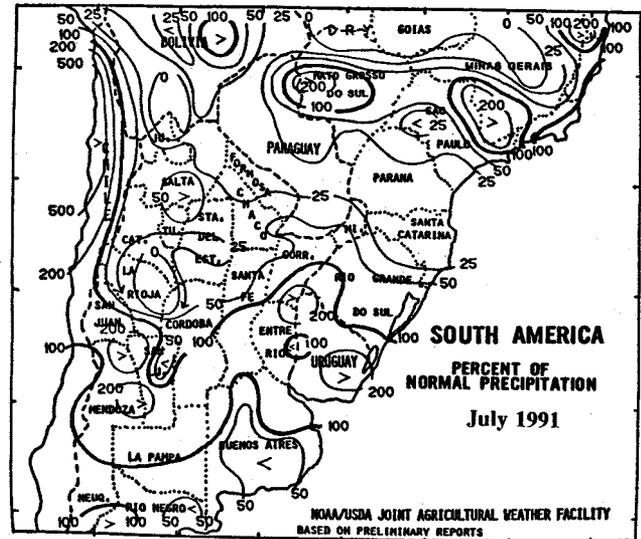
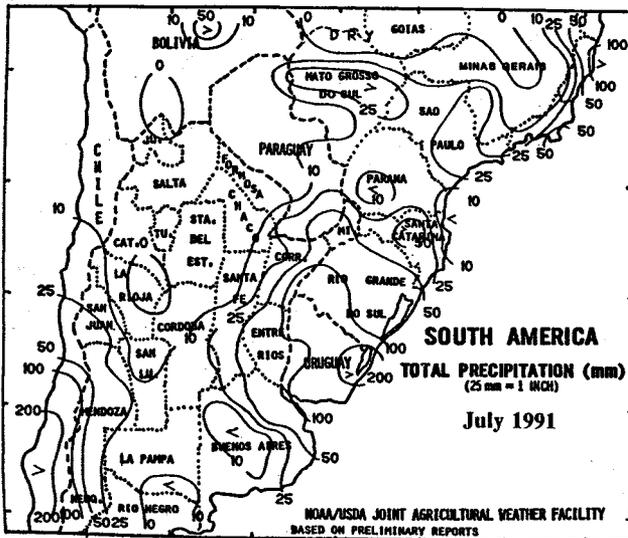
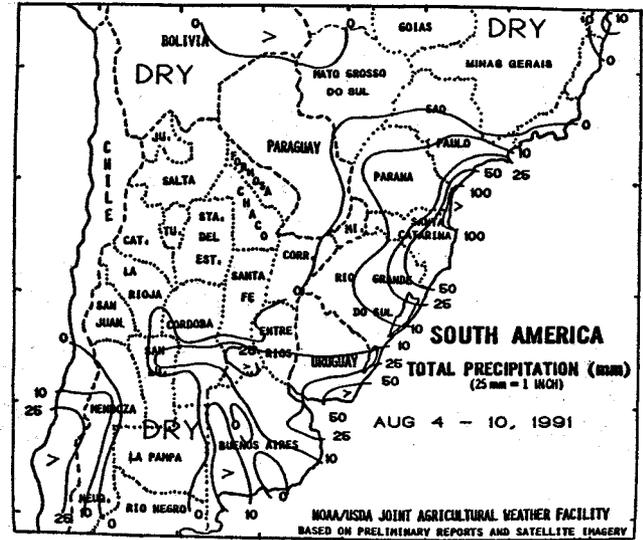


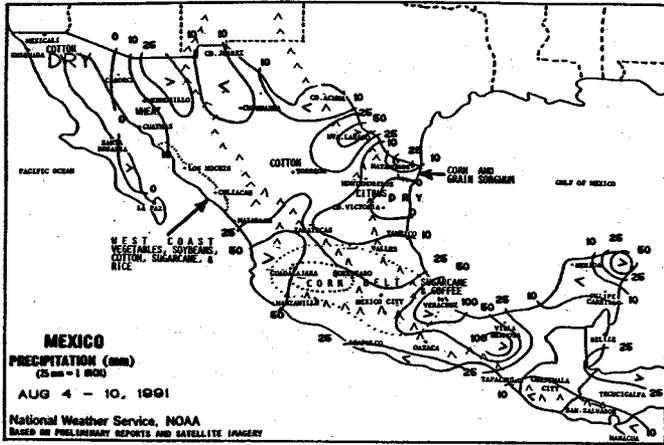


AUSTRALIA ... Light to moderate showers (7-38mm) fell across central and southern New South Wales and Victoria, maintaining sufficient soil moisture for early wheat growth. Western Australia received little or no rainfall but soil moisture levels should be adequate. Queensland and northern New South Wales remained dry. In July, most winter grain regions received normal- to above-normal rainfall, except for northern New South Wales, Queensland, and southwestern Victoria. Temperatures averaged near normal in the east to slightly above normal in the central and western areas.

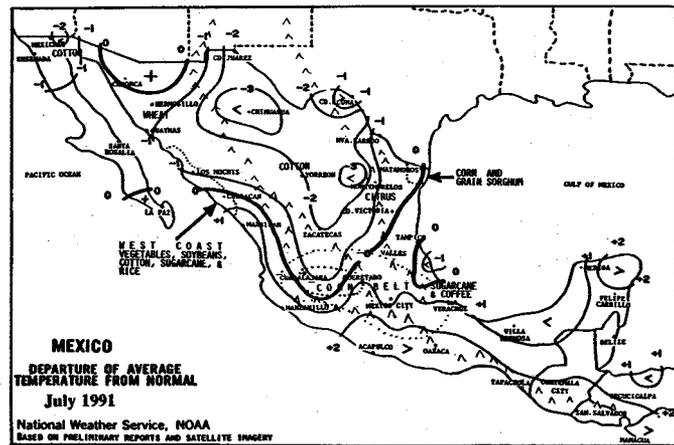
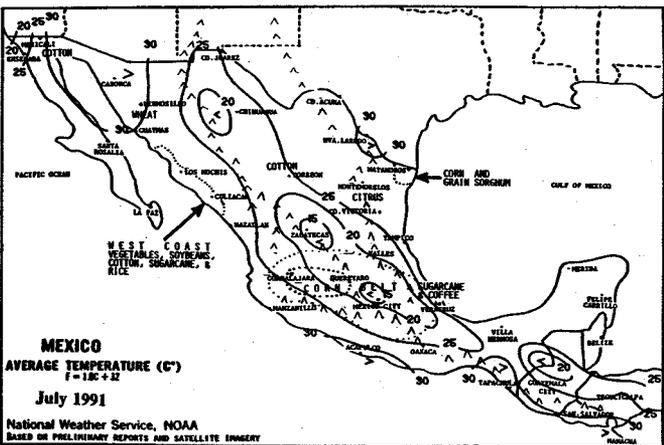
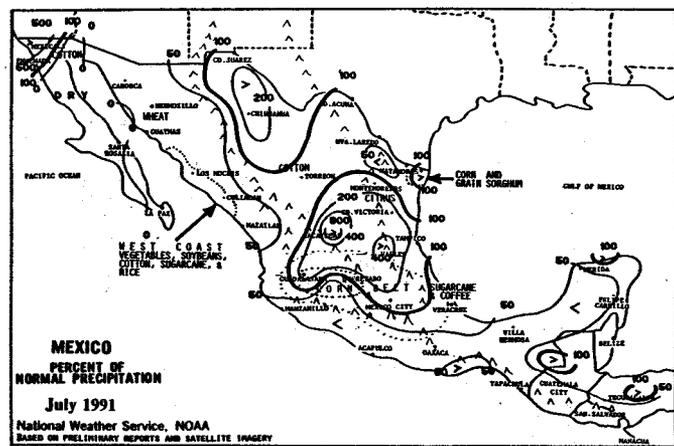
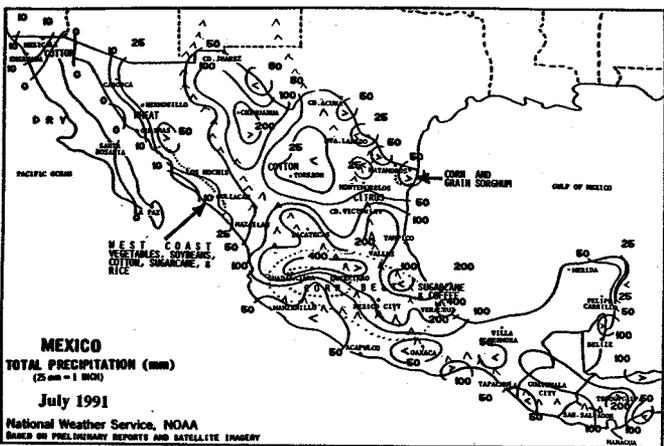


SOUTH AMERICA ... Light to moderate showers (7-30mm) fell over wheat areas of Argentina and southern Brazil, aiding winter wheat emergence. Winter wheat planting is nearly complete in Argentina. In July, near- to below-normal rains promoted soybean harvesting and winter wheat planting in Argentina. Below-normal rains fell in southern Brazil, but above-normal rains further north in Sao Paulo and Minas Gerais caused minor delays in coffee and citrus harvesting.

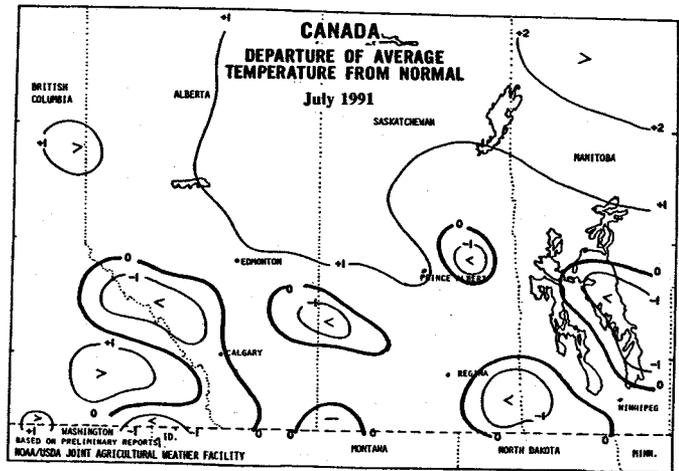
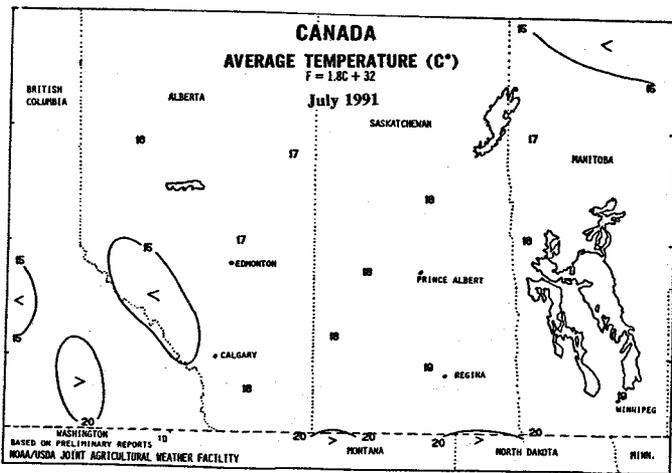
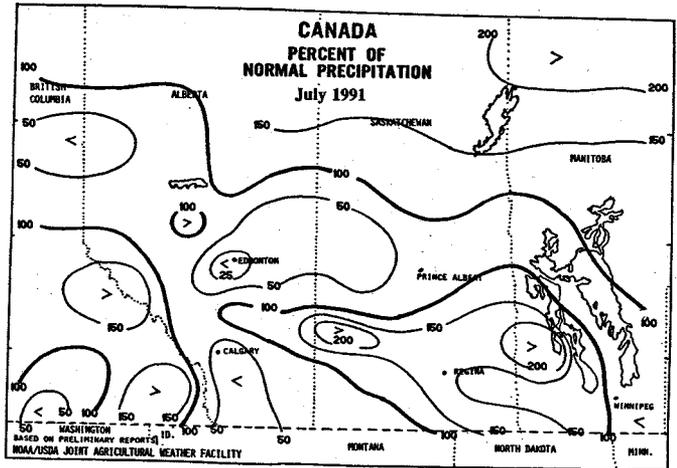
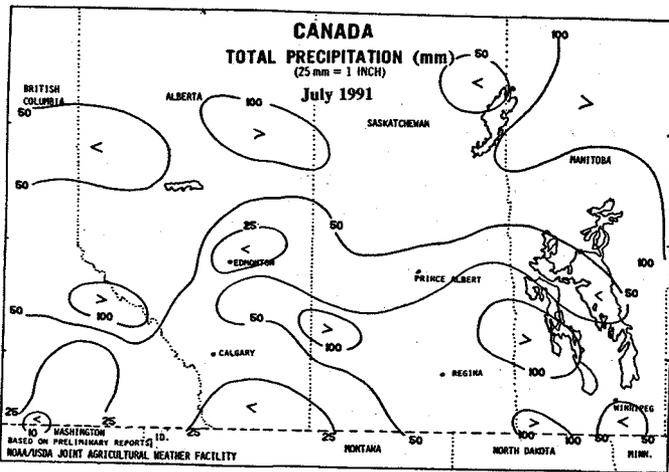
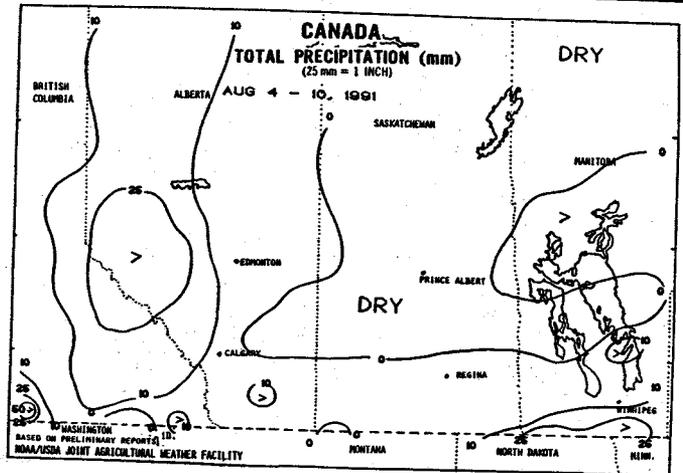




MEXICO ... Beneficial rains (10-50mm) fell across the northeastern grain areas which were too dry. The Southern Plateau Corn Belt continued to receive seasonal rains, aiding grain-filling corn, while the north-central region dried out after previous heavy rains. Rainfall was abundant during July, with most crop regions receiving normal- to above-normal rainfall. Temperatures averaged 1-3 degrees C below normal in the north and 1-2 degrees C above normal in the south.



CANADA ... Drier- and warmer-than-normal weather dominated most crop regions of Alberta and Saskatchewan, reducing available moisture for filling grains and oilseeds. A late-week outbreak of hot weather (maximum temperatures of 35-38 degrees C) stressed immature crops from southern Alberta to northern Saskatchewan. Further east, moderate showers (10-34mm) across southern Manitoba hampered early harvests. In July, unfavorably wet weather lingered early in the month over much of the southeast, but by month's end, a drying trend had brought relief from the damp conditions. In contrast, drier-than-normal weather over most of Alberta and parts of northwestern Saskatchewan reversed this spring's wet weather pattern. The drying trend, accompanied by seasonable temperatures, was initially helpful in reducing the threat of disease and pest damage but by month's end, local areas had become too dry to maintain optimal growing conditions.



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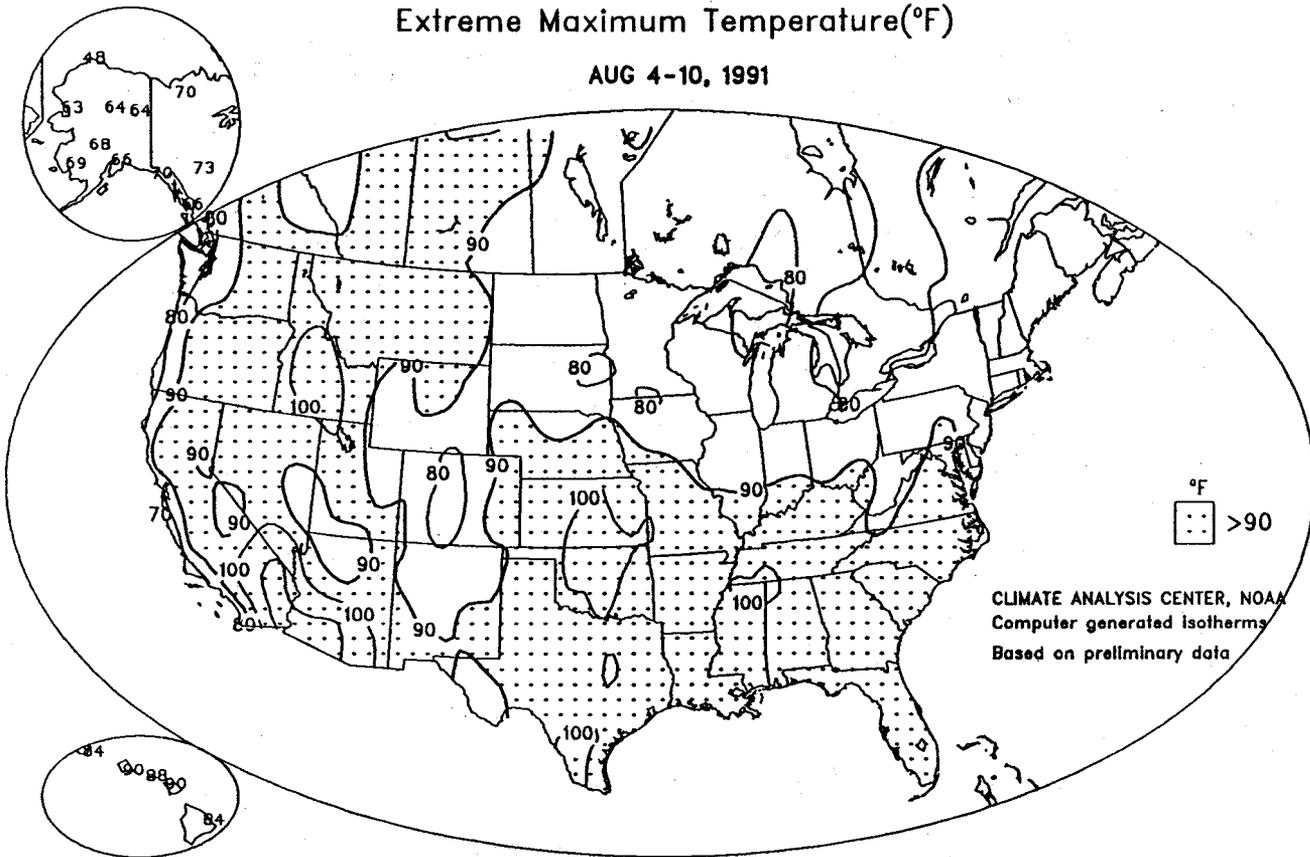
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