

WEEKLY WEATHER AND CROP BULLETIN

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

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

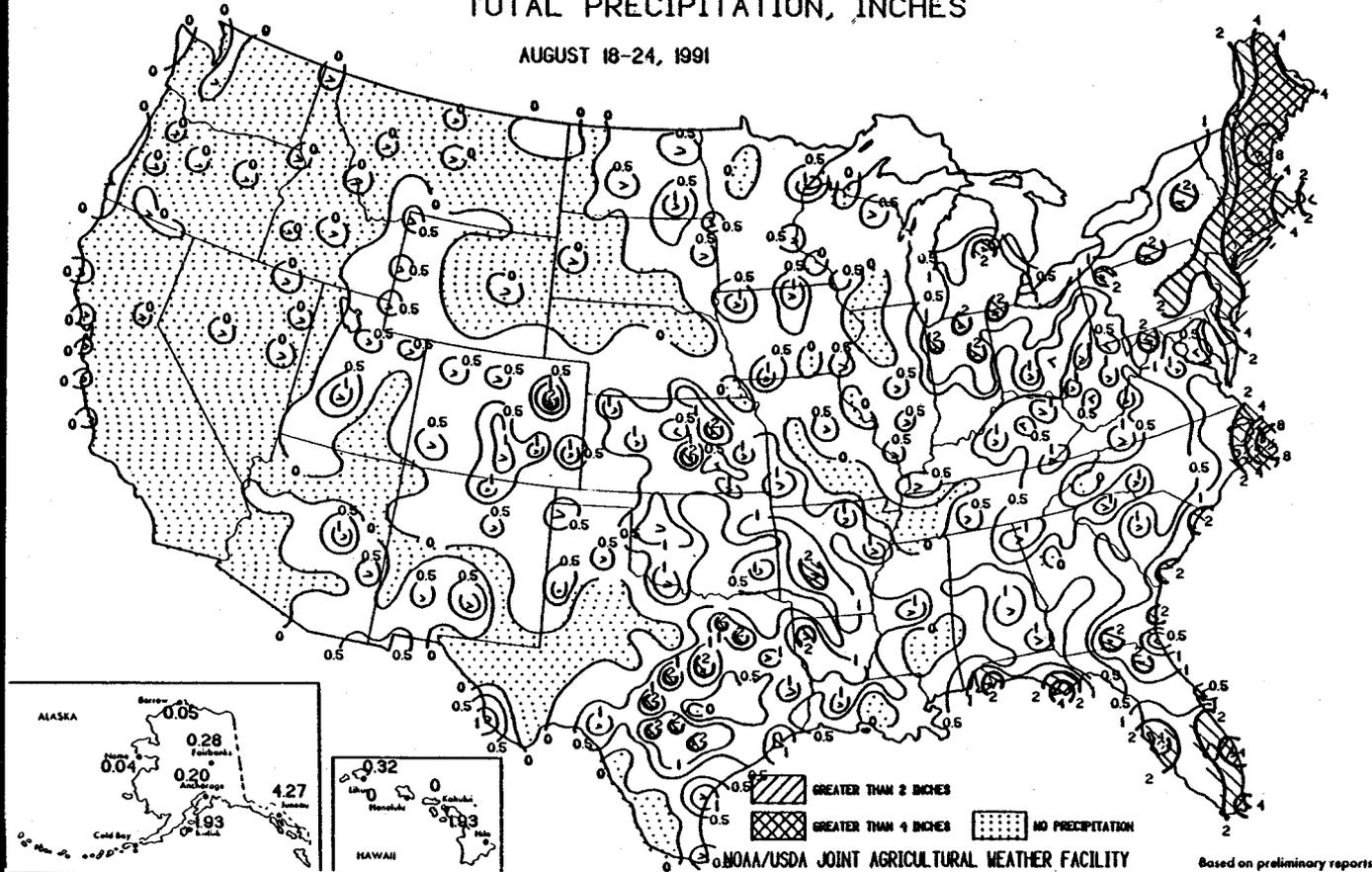
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Washington, D.C.

August 27, 1991

TOTAL PRECIPITATION, INCHES

AUGUST 18-24, 1991



NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY

Based on preliminary reports

HIGHLIGHTS

August 18 - 24, 1991

Early-week weather was headlined by Hurricane Bob's stormy tour of **New England**. Bob delivered high wind and heavy rain from coastal **North Carolina** to **eastern Maine**. Wind gusts reached 74 mph on **Cape Hatteras, NC**, topped 120 mph in portions of coastal **Rhode Island**, and were clocked at 94 mph in **Falmouth, MA**. Rainfall of 4 to 8 inches caused widespread flooding from **Long Island, NY**, to **south central Maine**. A strong cold front pushed off the **east coast** in Bob's wake, compounding **New England's** flooding problems, but providing beneficial rain for the **Ohio Valley**. Cool air spilled into the middle third of the Nation. **Marquette, MI**, reported an autumnal 37° F reading. At midweek, a tranquil weather pattern commenced. Unusual warmth was confined to the **Gulf coast** and the **Intermountain West**. Widely scattered thunderstorms erupted in the **central and southern Plains** and the **Southwest**. Locally excessive rain fell in **eastern Florida**. By Friday, a new surge of cool air spilled into the **Great Lakes States**. Meanwhile, a late summer heat wave developed in the **West**, gradually

spreading eastward into the **northern and central Plains**, where Saturday's maximum temperatures climbed toward the century mark. As the week ended, disorganized convection dotted the western two-thirds of the Nation, and a new area of storms mushroomed in the **Southeast**.

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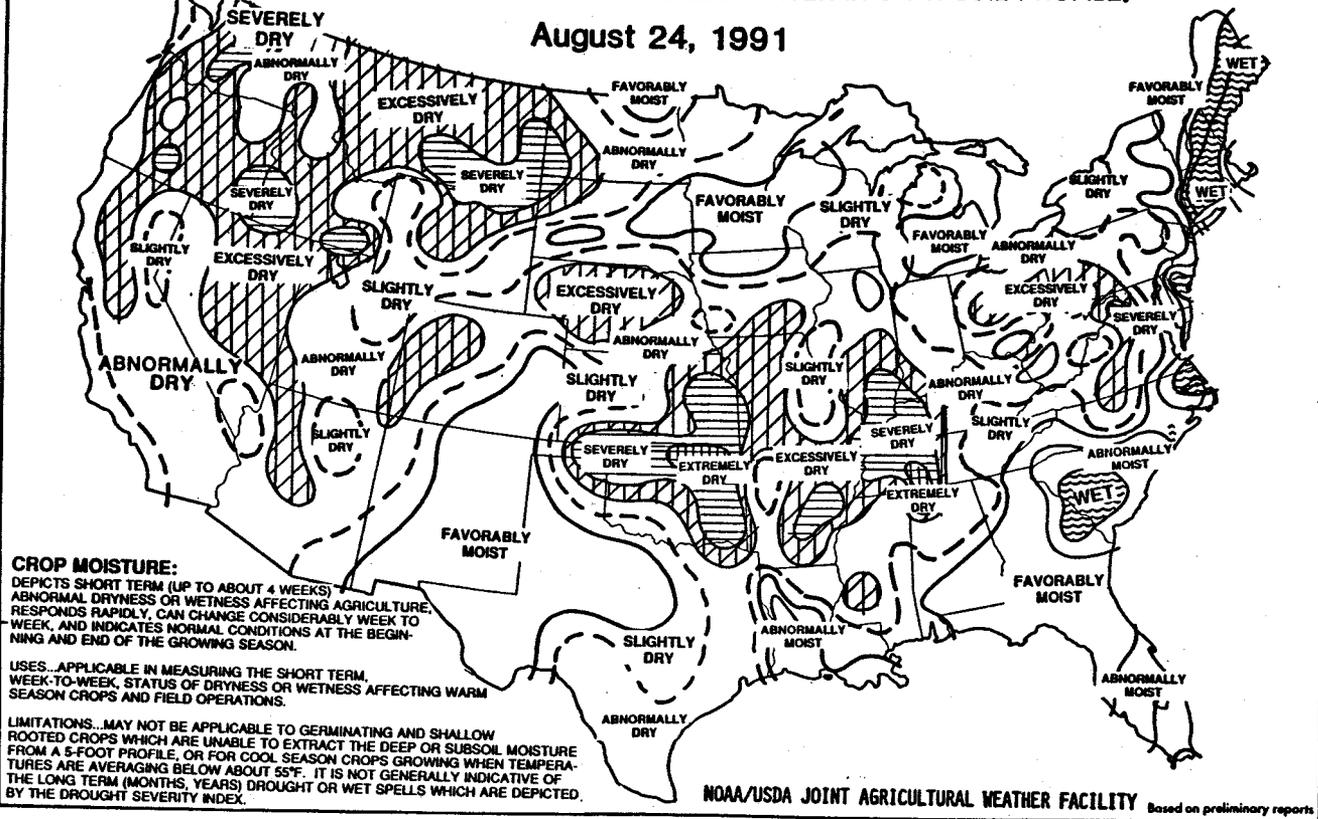
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CROP MOISTURE INDEX

(SHORT TERM, CROP NEED VS. AVAILABLE WATER IN 5-FT. SOIL PROFILE)

August 24, 1991

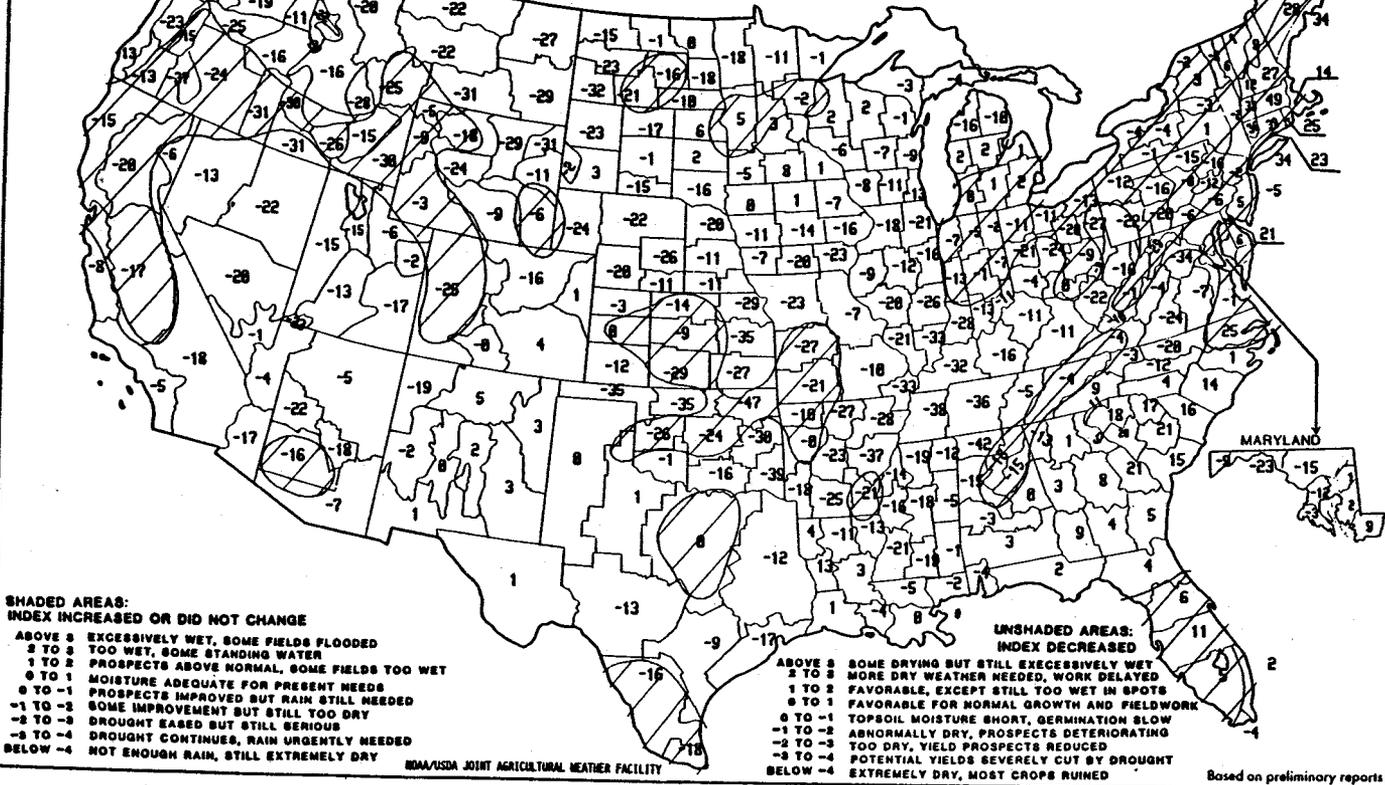


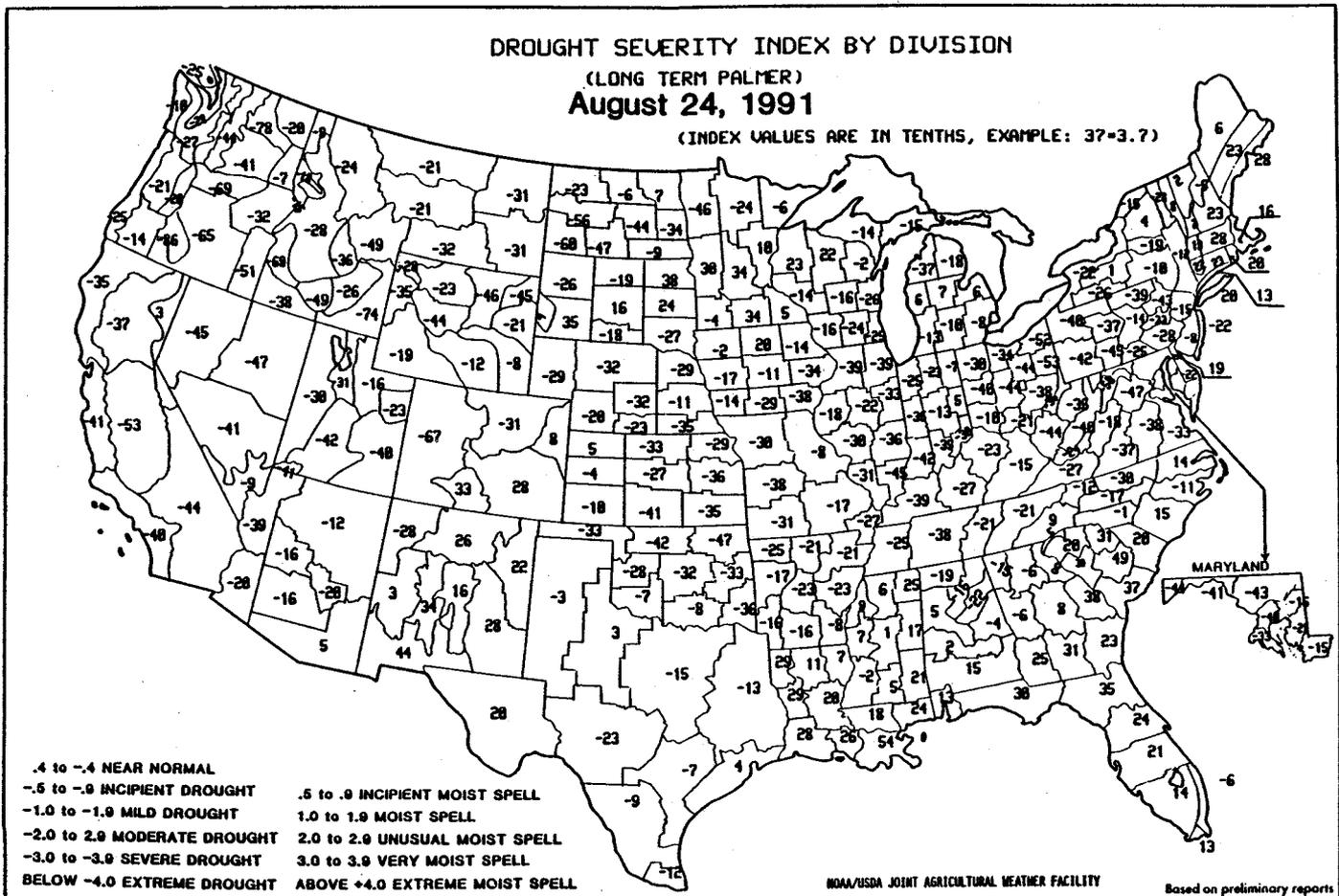
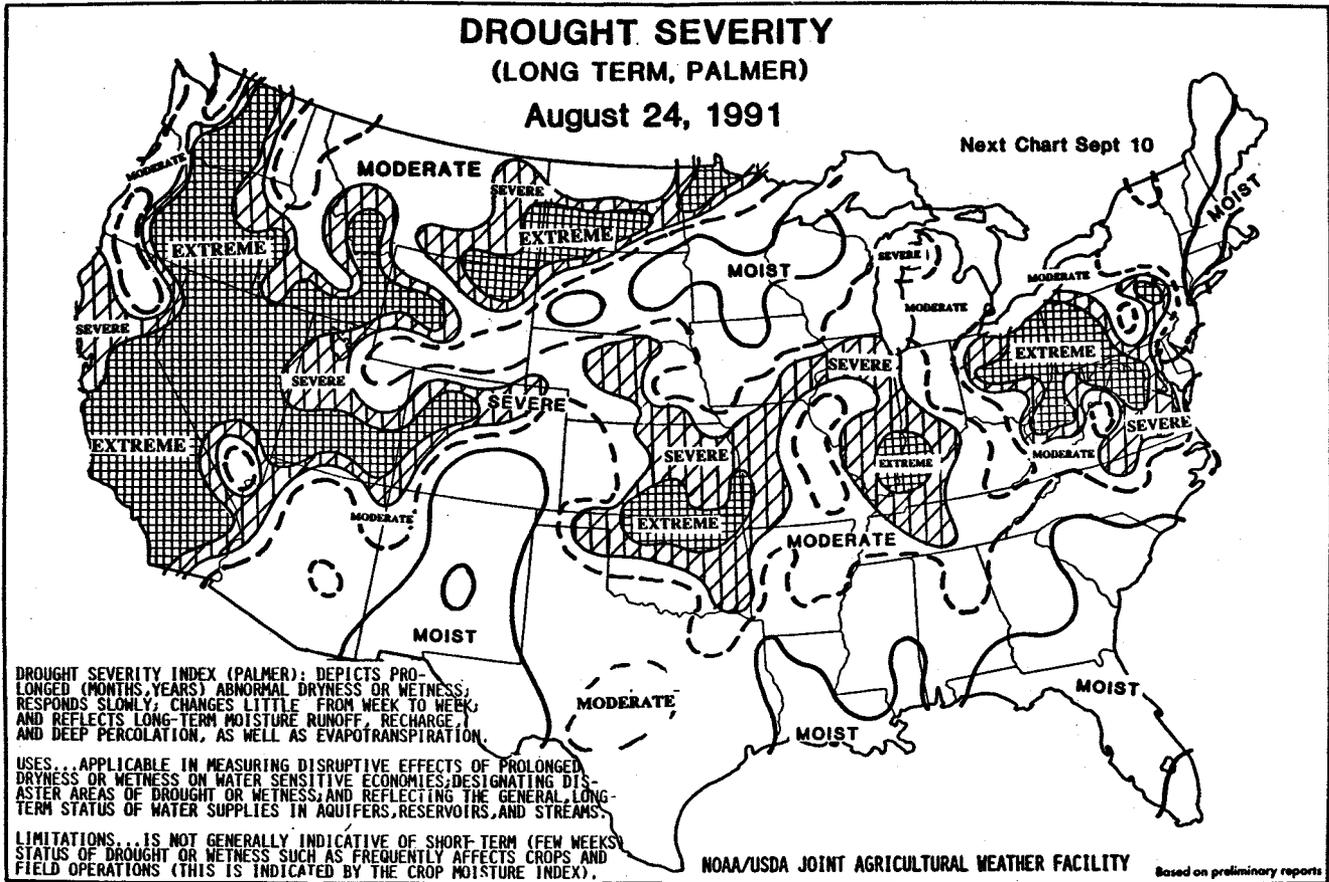
CROP MOISTURE INDEX BY DIVISION

(SHORT TERM CROP NEED VS. AVAILABLE WATER IN 5-FT. SOIL PROFILE)

August 24, 1991

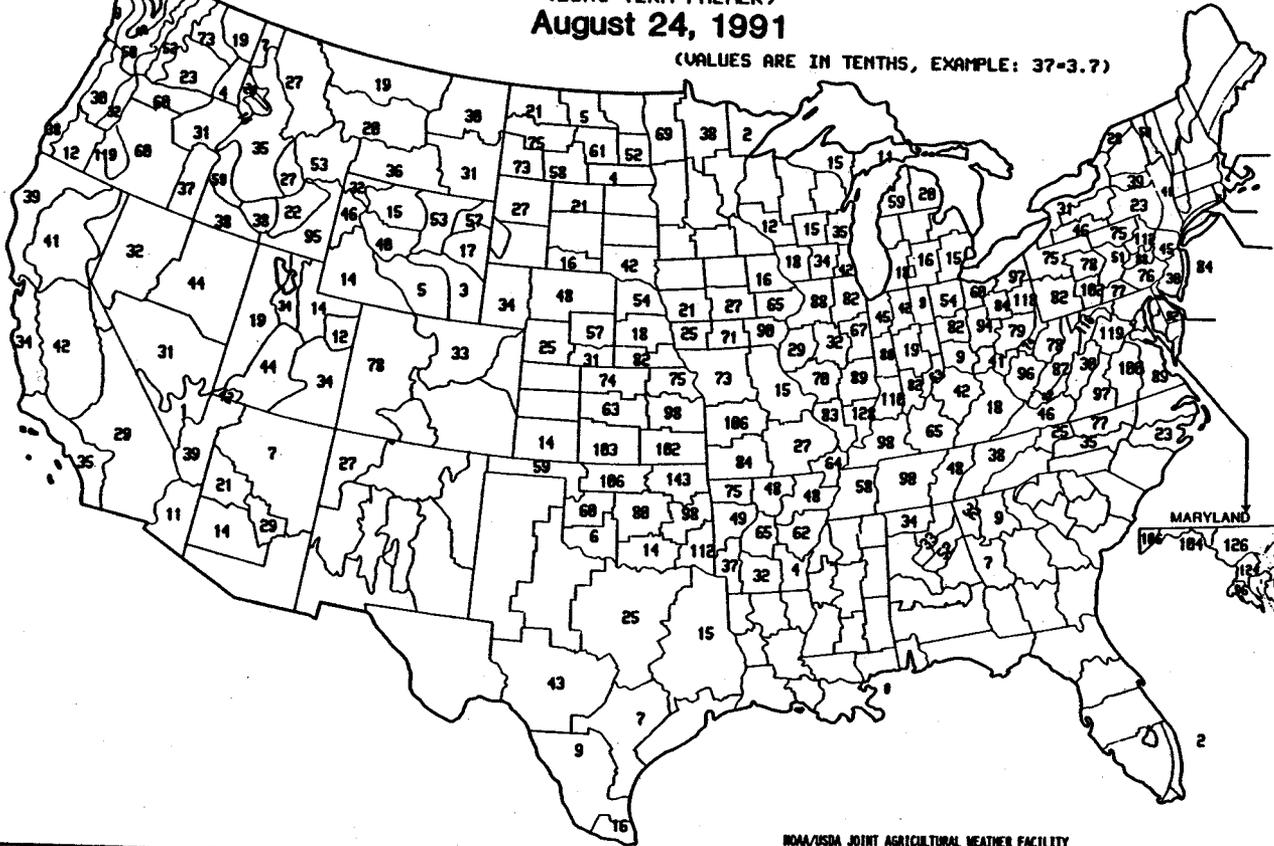
(INDEX VALUES ARE IN TENTHS, EXAMPLE: 37-3.7)





ADDITIONAL PRECIPITATION NEEDED TO BRING INDEX NEAR ZERO
 (LONG TERM PALMER)
 August 24, 1991

(VALUES ARE IN TENTHS, EXAMPLE: 37-3.7)

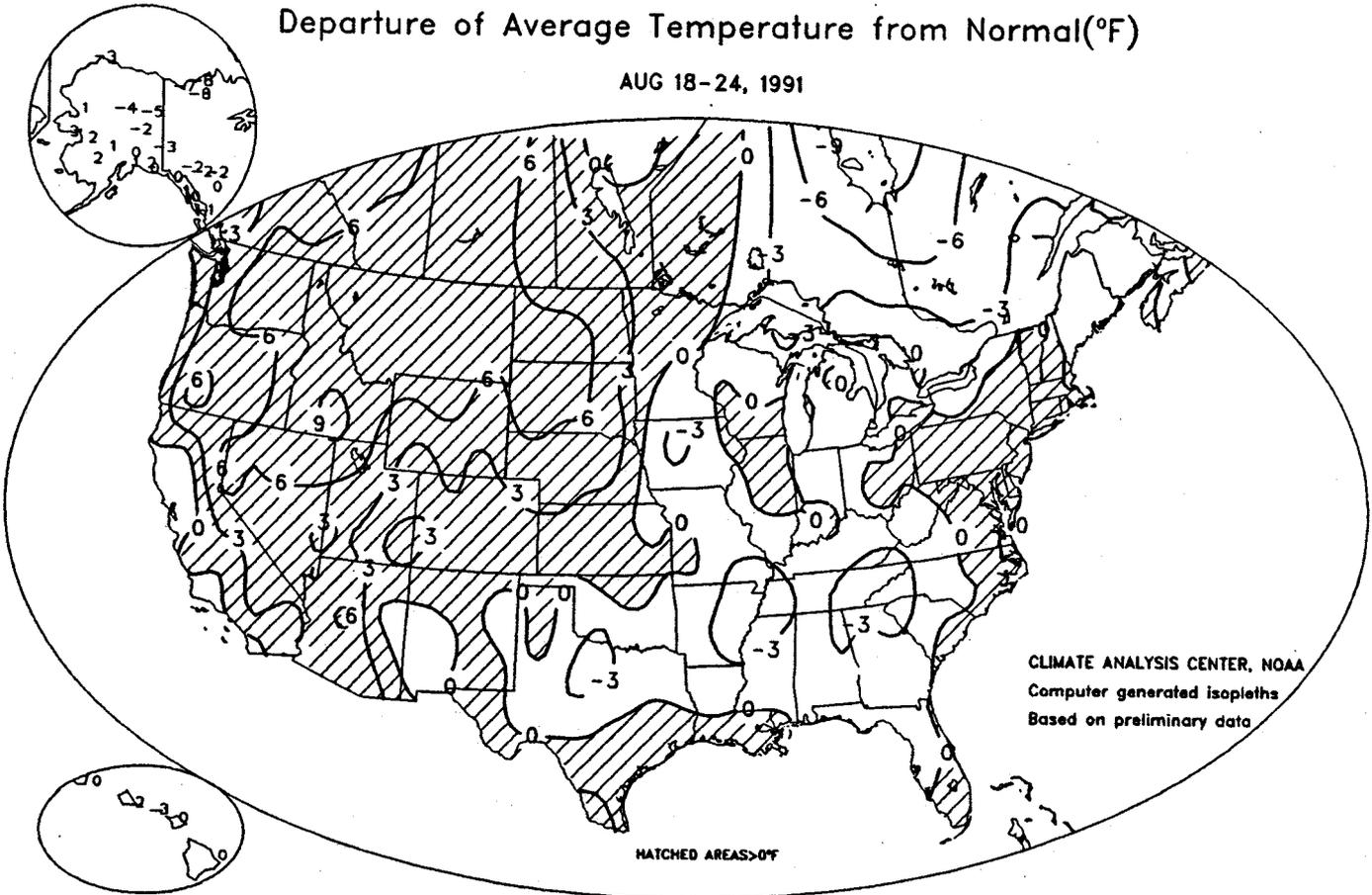


NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY

Based on preliminary reports

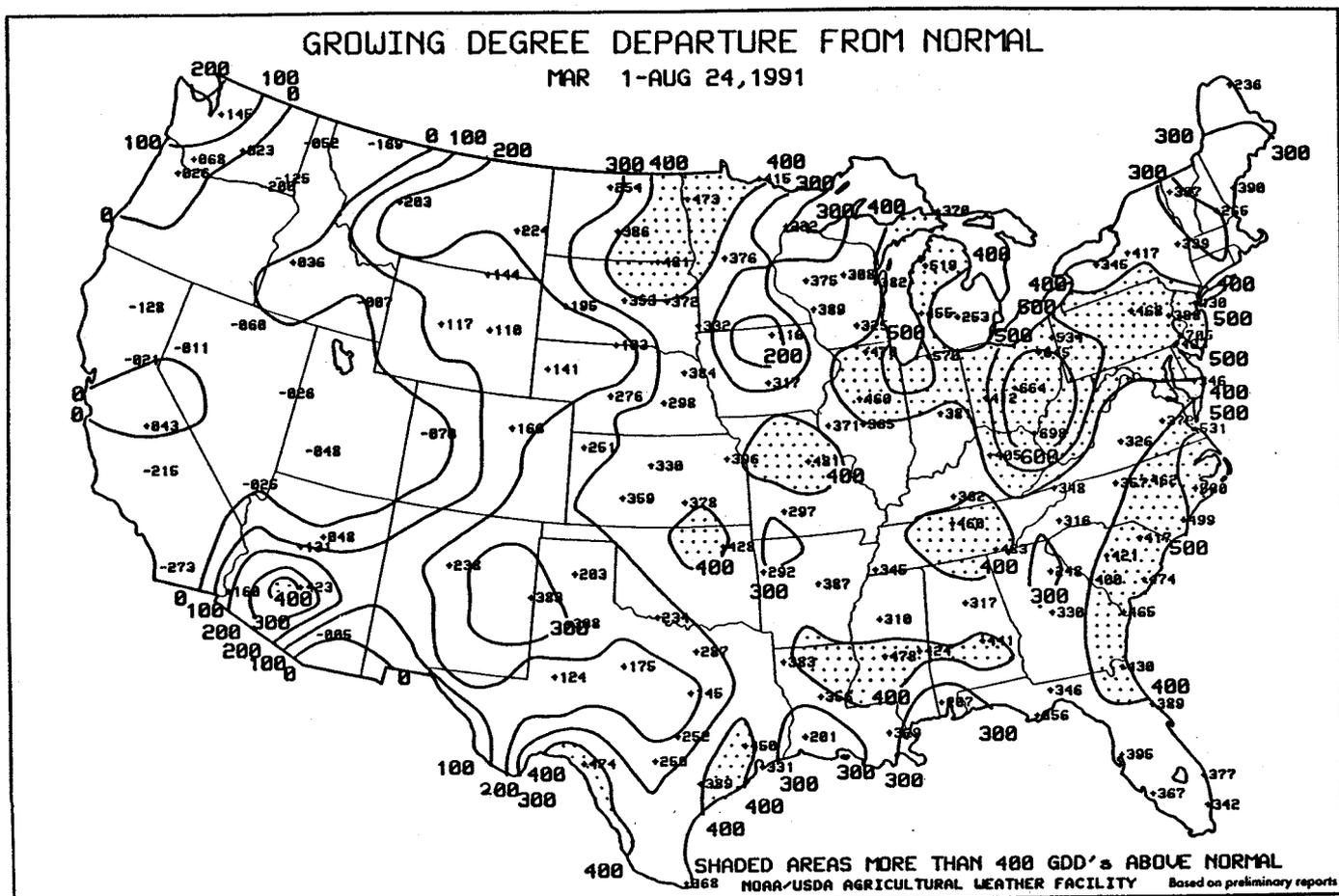
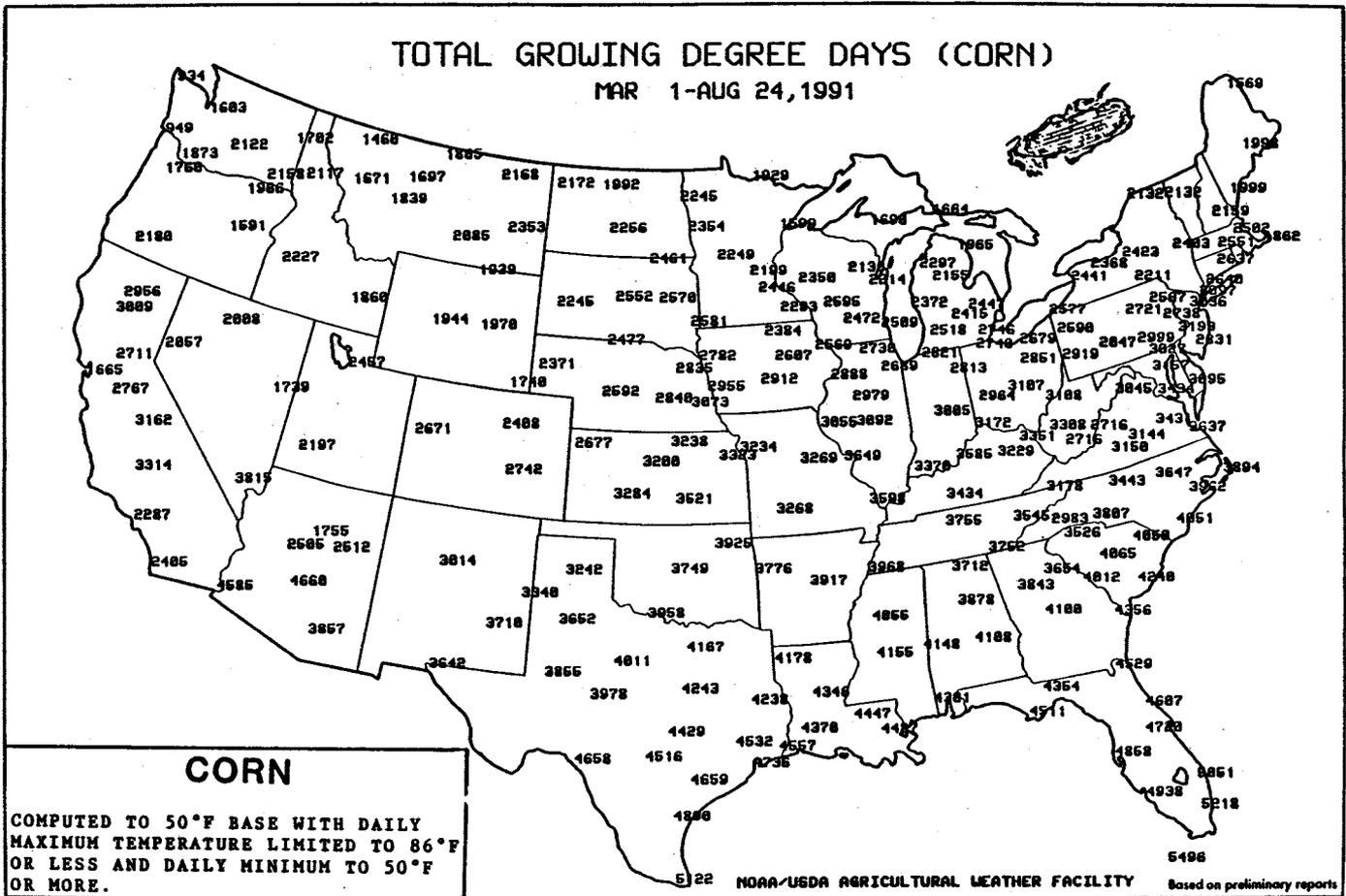
Departure of Average Temperature from Normal(°F)

AUG 18-24, 1991



CLIMATE ANALYSIS CENTER, NOAA
Computer generated isopleths
Based on preliminary data

HATCHED AREAS >0°F



National Weather Data for Selected Cities

Weather Data for the Week Ending August 24, 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	AVERAGE	MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE		32 AND BELOW		.01 INCH OR MORE		.50 INCH OR MORE	
																	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE				
AL BIRMINGHAM	90	66	92	60	78	-1	.8	-.1	.7	12.8	107	38.9	103	92	43	5	0	0	0	0	0	0	1	
MOBILE	91	71	93	68	80	-1	.8	-.7	.5	18.4	102	68.1	152	94	48	6	0	0	0	0	0	0	1	
MONTGOMERY	91	67	94	59	79	-2	1.7	1.0	1.0	13.7	130	51.4	153	98	42	6	0	0	0	0	0	0	1	
AK ANCHORAGE	66	48	71	42	57	2	.2	-.3	.2	6.4	137	8.4	104	92	54	4	0	0	0	0	0	0	2	
BARROW	40	29	50	25	34	-3	.1	-.2	.0	.5	27	.9	33	99	72	3	0	0	0	0	0	0	0	
FAIRBANKS	45	40	59	36	53	-2	.3	-.1	.2	2.4	52	6.1	89	93	52	0	0	0	0	0	0	0	0	
JUNEAU	56	45	59	48	53	-1	4.3	3.1	1.5	15.5	143	39.7	143	99	86	0	0	0	0	0	0	0	0	
KODIAK	56	40	66	42	54	-1	1.9	-.8	1.2	15.7	139	55.0	157	98	76	0	0	0	0	0	0	0	0	
MCME	60	59	66	39	52	3	T	-.7	T	5.5	95	8.6	98	90	60	0	0	0	0	0	0	0	0	
AZ PHOENIX	106	85	108	82	96	7	.1	-.2	.1	.3	16	3.5	84	42	17	7	7	7	7	7	7	7	7	
PRESCOTT	92	61	95	56	76	7	T	-.8	T	2.1	33	8.3	66	60	22	0	0	0	0	0	0	0	0	
TUCSON	100	75	104	70	88	4	.4	-.4	.4	2.5	56	5.9	86	66	22	7	7	7	7	7	7	7	7	
YUMA	109	84	114	78	96	4	.0	-.1	.0	.0	0	1.8	136	61	18	0	0	0	0	0	0	0	0	
AR FORT SMITH	90	66	93	58	78	-3	.4	-.2	.4	6.3	69	24.1	92	96	41	5	4	5	4	5	4	5	4	
LITTLE ROCK	87	69	93	64	78	-3	.3	-.4	.3	7.6	80	33.0	101	82	50	0	0	0	0	0	0	0	0	
CA BAKERSFIELD	96	67	105	65	82	0	.0	-.0	.0	.0	0	4.6	118	66	24	7	7	7	7	7	7	7	7	
BUREKA	64	56	65	55	60	0	T	-.1	T	1.4	162	17.5	77	93	79	0	0	0	0	0	0	0	0	
FRESNO	97	63	105	60	80	0	.0	-.0	.0	.0	0	8.5	121	72	22	0	0	0	0	0	0	0	0	
LOS ANGELES	74	64	78	63	69	-2	.0	-.0	.0	.2	189	8.0	96	87	63	0	0	0	0	0	0	0	0	
REDDING	98	61	100	59	80	0	.0	-.1	.0	.1	10	17.3	69	67	16	7	7	7	7	7	7	7	7	
SACRAMENTO	91	56	97	54	73	0	.0	-.0	.0	2.5	>1000	12.7	119	94	28	0	0	0	0	0	0	0	0	
SAN DIEGO	74	64	78	63	69	-3	.0	-.0	.0	.3	192	10.8	174	91	67	5	5	5	5	5	5	5	5	
SAN FRANCISCO	69	57	74	54	63	0	.0	-.0	.0	.4	317	11.3	91	93	64	0	0	0	0	0	0	0	0	
CO DENVER	87	57	93	55	72	2	.3	-.3	T	8.7	185	14.6	130	69	24	3	0	0	0	0	0	0	0	
GRAND JUNCTION	92	63	97	59	78	3	.1	-.1	.1	1.3	82	4.1	84	56	18	6	6	6	6	6	6	6	6	
FURBIO	91	57	97	54	74	1	.2	-.2	.2	6.8	152	9.2	113	89	25	4	4	4	4	4	4	4	4	
CT BRIDGEPORT	80	68	87	64	74	1	5.4	4.6	4.7	12.2	134	29.0	106	93	64	0	0	0	0	0	0	0	0	
HARTFORD	80	63	90	59	71	1	6.4	5.4	4.1	14.2	150	31.7	115	96	61	1	1	1	1	1	1	1	1	
DC WASHINGTON	89	69	92	65	79	2	.1	-.9	-.1	6.6	62	17.7	69	91	45	4	4	4	4	4	4	4	4	
FL APALACHICOLA	87	74	90	72	81	-1	4.3	2.6	3.3	29.0	165	85.0	243	97	66	1	1	1	1	1	1	1	1	
DAYTONA BEACH	89	74	92	71	81	0	.6	-.9	-.3	31.3	187	55.6	180	96	58	4	4	4	4	4	4	4	4	
JACKSONVILLE	91	73	93	69	82	0	.5	-.3	.4	30.7	168	65.4	185	96	54	0	0	0	0	0	0	0	0	
KY WEST	91	78	93	76	85	0	.9	-.3	.4	12.5	104	27.5	126	85	57	6	6	6	6	6	6	6	6	
MIAMI	92	77	95	74	85	2	2.1	-.4	1.6	21.4	105	35.0	97	92	53	5	5	5	5	5	5	5	5	
ORLANDO	89	74	92	73	81	-1	.8	-.7	.6	20.9	103	48.1	139	98	62	5	5	5	5	5	5	5	5	
TALLAHASSEE	91	68	96	60	79	-2	.3	-.3	.2	19.1	91	67.2	148	98	51	4	4	4	4	4	4	4	4	
TAMPA	89	75	90	72	82	-1	3.7	2.0	1.1	19.5	105	35.5	110	97	67	3	3	3	3	3	3	3	3	
WEST PALM BEACH	93	75	96	73	84	1	5.0	3.6	2.9	20.6	113	57.8	163	96	54	5	5	5	5	5	5	5	5	
GA ATLANTA	86	69	90	62	78	0	T	-.7	T	18.2	168	45.5	132	93	53	1	1	1	1	1	1	1	1	
AUGUSTA	90	68	92	62	79	-1	.3	-.6	-.2	22.9	202	49.9	160	100	49	3	0	0	0	0	0	0	0	
MACON	89	68	91	60	78	-2	.6	-.2	.6	15.1	137	44.6	138	96	48	2	0	0	0	0	0	0	0	
SAVANNAH	90	71	94	66	81	0	.8	-.6	.5	27.4	150	59.8	165	95	51	3	0	0	0	0	0	0	0	
HI HILO	84	70	85	68	77	1	1.9	-.3	1.3	43.3	191	113.4	139	96	70	0	0	0	0	0	0	0	0	
HONOLULU	90	75	92	73	83	2	.0	-.1	.0	.5	35	11.1	79	73	44	4	4	4	4	4	4	4	4	
KAHULUI	88	70	90	66	79	0	.0	-.1	.0	1.3	145	9.1	75	89	55	1	0	0	0	0	0	0	0	
LIHUE	85	74	85	72	80	1	.3	-.1	.1	6.7	132	22.2	86	85	65	0	0	0	0	0	0	0	0	
ID BOISE	96	64	98	58	80	9	T	-.1	T	1.1	73	6.3	84	48	18	7	0	0	0	0	0	0	0	
LEWISTON	94	63	100	57	79	7	.0	-.2	.0	2.5	98	8.6	102	44	16	5	0	0	0	0	0	0	0	
POCATELLO	94	54	98	48	74	6	.1	-.0	.1	.9	46	9.7	136	76	16	6	0	0	0	0	0	0	0	
IL CHICAGO	82	60	89	53	71	0	.3	-.6	.3	4.6	45	19.4	85	91	43	0	0	0	0	0	0	0	0	
MOLINE	85	58	94	52	72	0	T	-.8	T	3.7	31	19.2	74	97	42	2	0	0	0	0	0	0	0	
PEORIA	84	61	91	53	72	1	.0	-.7	.0	4.3	41	18.6	78	89	44	3	0	0	0	0	0	0	0	
QUINCY	84	60	92	54	72	-1	.0	-.9	.0	3.9	34	21.9	86	83	44	1	0	0	0	0	0	0	0	
ROCKFORD	84	61	92	56	73	-1	.2	-.6	.2	5.8	48	17.0	68	90	39	2	0	0	0	0	0	0	0	
SPRINGFIELD	84	60	95	57	74	-1	.5	-.3	.5	7.4	76	21.4	91	94	51	1	0	0	0	0	0	0	0	
IN EVANSVILLE	88	60	86	53	71	-2	.2	-.5	.2	3.6	37	19.6	68	96	39	3	0	0	0	0	0	0	0	
FORT WAYNE	81	60	86	53	71	0	.6	-.1	.6	8.6	89	28.4	120	93	51	0	0	0	0	0	0	0	0	
INDIANAPOLIS	84	62	91	58	73	1	.8	-.2	.6	6.6	60	25.5	95	95	49	2	0	0	0	0	0	0	0	
SOUTH BEND	80	60	85	56	70	0	.0	-.2	.0	5.0	47	19.9	80	97	52	0	0	0	0	0	0	0	0	
LA DES MOINES	82	61	90	52	72	-1	1.1	-.2	.8	5.0	69	27.7	127	90	47	1	0	0	0	0	0	0	0	
SIOUX CITY	87	61	94	56	74	2	.2	-.7	.2	7.3	69	27.7	127	90	47	1	0	0	0	0	0	0	0	
WATERLOO	80	58	88	48	69	2	T	-.7	T	8.2	84	18.4	98	96	46	2	0	0	0	0	0	0	0	
KS COMCORDIA	91	64	101	60	77	-1	.4	-.4	.4	8.6	73	30.0	128	97	52	0	0	0	0	0	0	0	0	
DODGE CITY	95	65	99	57	80	2	.1	-.1	.4	7.2	71	15.1	76	86	35	4	0	0	0	0	0	0	0	
GOODLAND	90	60	96	56	75	2	.1	-.3	.1	2.0	24	6.5	42	86	27	7	0	0	0	0	0	0	0	
TOPEKA	92	60	101	51	76	-1	.1	-.3	.1	12.7	192	19.1	154	87	34	4	0	0	0	0	0	0	0	
WICHITA	92	67	98	63	79	0	.1	-.8	.1	4.5	37	19.0	82	96	36	4	0	0	0	0	0	0	0	
KY BOWLING GREEN	86	62	92	56	74	-3	.2	-.5	.2	4.3	44	12.0	61	81	33	5	0	0	0	0	0	0	0	
LEXINGTON	84	62	91	57	73	-1	.1	-.7	.1	7.3	59	26.3	81	96	51	2	0	0	0	0	0	0	0	
LOUISVILLE	88	66	94	62	77	1	.3	-.4	.3	5.														

Weather Data for the Week Ending August 24, 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	AVERAGE	MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	TEMP. °F		PRECIP.	
																			.01 INCH OR MORE	.50 INCH OR MORE		
SHREVEPORT	92	71	96	68	82	0	1.1	.6	1.1	11.3	126	59.5	201	97	50	6	0	0	2	1		
LA CARIBOU	68	51	78	44	60	0	3.6	2.6	3.6	8.7	84	22.7	101	95	59	0	0	5	4			
PORTLAND	75	59	86	53	67	0	9.6	8.9	7.3	18.6	232	40.0	152	98	65	0	0	4	2			
MD BALTIMORE	87	65	91	59	76	0	7	4	5	5.4	48	18.2	66	94	46	1	0	3	1			
SALISBURY	85	67	88	63	76	0	1.4	1.1	1.6	14.7	119	32.4	109	100	57	0	0	3	1			
MA BOSTON	77	63	92	58	70	0	3.9	3.1	1.8	9.5	113	24.4	89	94	61	1	0	2	2			
CHATHAM	73	61	78	58	67	0	1.8	1.8	1.8	6.9	78	22.2	77	100	81	0	0	5	2			
MI ALPENA	75	52	80	44	63	0	1.2	1.5	1.1	6.5	76	19.8	105	95	49	0	0	3	0			
DETROIT	79	61	86	55	70	0	1.9	1.2	1.9	7.2	80	19.9	95	92	50	0	0	3	1			
FLINT	78	56	85	48	67	0	1.2	1.4	1.0	9.2	106	21.5	110	96	50	0	0	2	1			
GRAND RAPIDS	78	57	84	52	68	0	1.8	1.1	1.6	11.8	131	27.4	127	94	50	0	0	2	1			
HOUGHTON LAKE	75	54	80	46	65	0	1.4	1.2	1.4	6.3	76	20.9	115	93	50	0	0	2	1			
LANSING	78	55	83	48	67	0	1.0	1.2	1.5	8.8	101	20.8	107	97	54	0	0	2	1			
MARQUETTE	68	47	79	37	58	0	1.2	1.5	1.1	9.2	96	21.8	91	93	68	0	0	3	0			
MUSKEGON	79	59	84	52	69	0	1.1	1.3	1.0	11.0	152	24.6	127	89	49	0	0	2	1			
SAULT ST. MARIE	73	50	79	45	62	0	1.3	1.5	1.1	6.5	74	17.3	87	96	54	0	0	3	0			
MN ALEXANDRIA	79	59	88	50	69	0	1.1	1.7	1.1	10.4	104	20.2	114	93	49	0	0	3	0			
DULUTH	73	51	80	39	62	0	1.1	1.1	1.0	13.4	121	25.7	127	95	53	0	0	2	1			
INT'L FALLS	79	50	83	37	65	0	1.8	1.6	1.8	8.8	90	18.2	111	93	39	0	0	1	0			
MINNEAPOLIS	79	58	87	50	68	0	1.8	1.0	1.8	8.4	81	22.1	117	93	48	0	0	2	1			
ROCHESTER	78	55	84	47	67	0	1.8	1.8	1.8	12.2	118	25.3	129	95	59	0	0	1	0			
MS GREENWOOD	90	65	94	60	77	0	1.2	1.4	1.2	8.5	84	47.7	131	95	43	5	0	1	0			
JACKSON	93	65	95	55	79	0	1.8	1.7	1.7	6.9	65	47.7	133	97	39	7	0	0	0	0		
MERIDIAN	91	67	94	57	79	0	1.0	1.0	1.0	13.1	114	53.5	144	93	40	5	0	0	0	0		
MO CAPE GIRARDEAU	87	63	93	56	75	0	1.3	1.5	1.3	7.9	79	27.3	90	94	39	3	0	2	0			
COLUMBIA	88	61	95	51	75	0	1.8	1.8	1.8	8.2	89	20.6	84	89	37	4	0	1	1			
KANSAS CITY	91	62	98	53	77	0	1.8	1.8	1.8	5.8	50	18.4	75	87	33	5	0	1	0			
SAINT LOUIS	90	67	96	59	78	0	1.0	1.6	1.0	6.3	68	19.2	82	82	36	4	0	0	0	0		
SPRINGFIELD	92	62	99	52	77	0	1.0	1.6	1.6	6.2	60	22.0	85	87	33	4	0	3	1			
MT BILLINGS	94	63	96	60	78	0	1.3	1.3	1.3	6.9	192	15.0	142	52	15	7	0	0	0	0		
GLASGOW	92	60	94	57	76	0	1.3	1.3	1.3	5.9	113	9.7	114	66	21	7	0	1	0	0		
GREAT FALLS	92	57	94	53	75	0	1.3	1.3	1.3	5.7	119	10.9	96	53	14	7	0	0	0	0		
HAVRE	91	59	93	53	75	0	1.0	1.0	1.0	2.1	46	8.4	95	70	21	5	0	0	0	0		
HELENA	93	56	95	54	75	10	1.0	1.3	1.0	4.2	105	7.9	92	57	15	6	0	0	0	0		
KALISPELL	89	47	93	40	68	5	1.0	1.0	1.0	4.7	112	10.8	103	93	20	3	0	0	0	0		
MILES CITY	94	63	97	57	78	7	1.0	1.3	1.0	7.4	142	15.2	142	61	18	6	0	0	0	0		
MISSOULA	91	51	95	47	71	7	1.0	1.2	1.0	3.4	102	8.1	90	70	17	5	0	0	0	0		
NE GRAND ISLAND	92	62	100	52	77	3	1.4	1.4	1.4	12.2	147	23.6	135	87	34	3	0	1	0	0		
LINCOLN	92	61	101	53	77	2	1.8	1.8	1.8	8.8	91	18.0	90	87	34	4	0	1	0	0		
NORFOLK	91	60	99	51	75	3	1.8	1.8	1.8	9.0	94	22.6	124	86	34	4	0	0	0	0		
NORTH PLATTE	94	58	99	54	76	4	1.2	1.2	1.2	5.1	62	15.0	98	92	28	5	0	2	0	0		
OMAHA	85	64	92	58	74	0	1.1	1.9	1.1	13.8	126	28.6	132	82	55	1	0	1	0	0		
SCOTT'S BLUFF	94	56	100	52	75	4	1.0	1.2	1.0	4.7	82	11.5	100	91	23	6	0	0	0	0		
VALENTINE	94	58	100	54	76	5	1.5	1.5	1.5	8.5	117	18.5	136	80	26	5	0	0	0	0		
NV ELY	89	50	92	43	69	5	1.0	1.0	1.0	1.3	69	6.6	108	63	20	4	0	2	0	0		
LAS VEGAS	105	78	107	73	92	4	1.0	1.1	1.0	1.6	171	3.4	128	29	12	7	0	0	0	0		
RENO	94	54	95	50	74	8	1.0	1.0	1.0	1.7	89	3.3	69	63	13	7	0	0	0	0		
WINNEMUCCA	96	52	98	46	74	7	1.0	1.0	1.0	1.9	70	4.9	97	44	11	7	0	0	0	0		
NH CONCORD	77	58	87	54	68	1	5.2	4.5	3.7	10.5	125	22.0	97	100	59	0	0	4	3	2		
NJ ATLANTIC CITY	84	65	87	60	74	1	2.2	1.1	1.3	10.1	97	25.9	94	100	59	0	0	2	2	0		
NM ALBUQUERQUE	89	64	95	59	76	1	1.1	1.2	1.1	4.4	148	6.4	125	72	26	3	0	1	1	0		
CLOVIS	86	64	88	62	75	1	1.1	1.4	1.1	14.3	191	16.3	138	86	36	0	0	0	0	0		
ROSWELL	92	66	94	64	79	1	1.0	1.5	1.0	11.7	273	13.2	202	83	32	5	0	0	0	0		
NY ALBANY	78	61	85	55	69	1	1.7	1.9	1.0	7.2	82	20.5	91	98	61	0	0	4	1	0		
BINGHAMTON	75	59	79	57	67	1	1.4	1.1	1.1	8.1	84	21.9	93	96	61	0	0	2	1	0		
BUFFALO	76	60	81	57	68	1	1.5	1.5	1.5	7.0	79	26.1	113	97	57	0	0	1	1	0		
NEW YORK	83	70	91	67	76	1	4.1	3.1	2.7	13.5	133	28.2	102	94	55	2	0	5	2	0		
ROCHESTER	75	59	83	55	67	0	1.6	1.2	1.6	4.8	61	18.8	93	96	57	0	0	1	1	0		
SYRACUSE	78	60	83	53	69	0	1.5	1.3	1.5	7.8	76	23.6	94	95	53	0	0	2	0	0		
NC ASHEVILLE	81	58	85	54	70	0	1.0	1.0	1.0	13.8	127	32.7	110	98	48	0	0	1	1	0		
CHARLOTTE	87	68	90	61	78	0	1.0	1.2	1.0	12.6	122	35.5	120	86	44	3	0	1	1	0		
GREENSBORO	86	64	91	58	75	0	1.0	1.2	1.0	7.3	64	31.3	109	89	46	1	0	1	1	0		
HATTERAS	84	73	88	68	78	0	8.2	6.8	5.3	26.8	186	49.3	143	97	70	0	0	6	3	3		
NEW BERN	87	72	90	67	79	1	2.6	1.1	1.6	17.0	101	35.7	99	96	62	2	0	4	2	0		
RALEIGH	87	66	91	60	77	0	1.1	1.9	1.1	13.6	118	27.0	94	96	51	2	0	1	1	0		
WILMINGTON	87	72	91	68	79	0	1.3	1.1	1.7	23.7	130	47.2	129	96	61	2	0	5	1	0		
ND BISMARCK	92	58	99	50	75	7	1.9	1.5	1.7	5.1	80	11.1	95	89	27	5	0	2	1	1		
FARGO	84	60	89	50	72	4	1.5	1.1	1.5	10.0	117	18.0	126	87	39	0	0	1	0	0		
GRAND FORKS	83	57	90	49	70	4	1.3	1.3	1.2	7.0	90	15.4	117	90	39	1	0	3	0	0		
HILLSTON	92	57	97	51	75	7	1.0	1.3	1.0	8.7	156	13.9	137	81	24	5	0	1	0	0		
OH AKRON-CANTON	81	60	86	59	71	1	1.4	1.3	1.4	3.1	32	14.7	60	98	51	0	0	2	0	0		
CINCINNATI	83	62	91	56	73	1	1.2	1.4	1.2	8.5	80	28.6	103	95	52	1	0	2	0	0		
CLEVELAND	78	61	87	58	70	1	1.0	1.2	1.8	5.5	59	21.1	90	97	59	0	0	3	1	0		
COLUMBUS	84	62	90	54	73	1	1.0	1.8	1.0	7.0	64	21.8	84	94	46	1	0	2	0	0		

Based on 1951-80 normals

Weather Data for the Week Ending August 24, 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	AVERAGE	MAXIMUM	MINIMUM	90 AND ABOVE	32 AND BELOW	TEMP. °F		PRECIP.	
																				.01 INCH OR MORE	.50 INCH OR MORE	.01 INCH OR MORE	.50 INCH OR MORE
DAYTON	83	61	91	54	72	0	.2	-.5	-.1	7.0	73	26.4	108	94	44	2	0	2	0	2	0		
TOLEDO	80	60	88	53	70	0	1.1	-.4	-.8	4.0	43	17.3	81	98	52	0	0	0	0	3	1		
YOUNGSTOWN	81	58	86	52	69	1	.3	-.5	-.2	6.4	62	17.1	68	99	48	0	0	0	0	2	0		
OK OKLAHOMA CITY	92	69	96	68	81	0	1.2	-.7	-.8	7.8	89	18.7	88	87	38	6	0	0	0	3	1		
TULSA	95	70	98	65	82	1	.1	-.6	-.1	4.4	43	15.0	58	82	31	6	0	0	0	3	0		
OR ASTORIA	65	54	69	45	60	-1	.1	-.4	-.4	2.2	47	35.4	93	93	70	0	0	0	0	0	0		
BURNS	92	51	95	45	71	5	.0	-.1	-.0	.9	74	4.4	73	58	14	5	0	0	0	0	0		
MEDFORD	95	60	100	52	78	7	.0	-.1	-.2	1.9	156	10.6	98	86	22	6	0	0	0	1	0		
PENDLETON	91	64	98	55	78	7	.0	-.1	-.1	2.8	204	9.2	127	45	16	5	0	0	0	0	0		
PORTLAND	85	59	91	53	72	5	.0	-.3	-.3	2.7	99	21.0	101	89	39	3	0	0	0	0	0		
SALEM	86	53	93	43	69	4	.0	-.2	-.0	1.7	82	21.4	96	91	36	3	0	0	0	0	0		
PA ALLENTOWN	82	64	88	59	73	1	1.2	-.2	-.7	8.9	81	22.5	79	97	59	0	0	0	0	3	1		
ERIE	77	60	85	58	69	0	2.0	1.1	1.3	7.0	67	18.8	77	94	56	0	0	0	0	4	2		
HARRISBURG	84	65	90	60	75	1	2.4	1.6	1.5	8.5	90	21.7	85	92	48	1	0	0	0	3	3		
PHILADELPHIA	86	69	92	65	78	3	1.3	-.4	1.0	12.0	110	25.6	94	90	51	1	0	0	0	4	2		
PITTSBURGH	82	62	89	58	72	2	.6	-.2	-.3	9.2	93	22.4	88	94	54	0	0	0	0	3	1		
SCRANTON	79	64	83	60	71	2	1.8	1.1	1.1	7.4	78	18.7	83	94	57	0	0	0	0	5	1		
RI PROVIDENCE	79	64	87	60	71	0	3.1	2.2	2.5	9.7	109	30.2	107	97	64	0	0	0	0	4	1		
SC CHARLESTON	89	73	93	68	81	1	1.7	-.3	1.5	18.8	99	42.2	114	93	51	3	0	0	0	4	1		
COLUMBIA	90	68	93	62	79	-1	1.4	-.1	1.4	27.8	196	54.4	155	97	48	3	0	0	0	4	1		
FLORENCE	88	69	91	64	79	-1	.2	-.8	-.2	19.4	138	36.6	117	94	52	3	0	0	0	2	1		
SD GREENVILLE	85	63	90	56	74	-3	1.9	1.0	1.0	15.1	126	39.9	115	95	47	1	0	0	0	2	0		
ABERDEEN	87	60	96	51	74	4	.4	-.0	-.3	8.4	117	21.0	154	93	44	1	0	0	0	4	2		
BURON	91	61	98	55	76	5	-.1	-.4	-.1	8.6	121	19.6	138	90	34	5	0	0	0	2	0		
RAPID CITY	95	61	99	55	78	7	.0	-.3	-.3	5.8	90	14.9	114	67	19	6	0	0	0	0	0		
SIoux FALLS	86	60	92	53	73	2	.3	-.5	-.3	10.0	115	19.9	115	95	41	2	0	0	0	1	0		
TN CHATTANOOGA	88	64	91	59	76	-1	.8	-.1	-.6	9.5	90	38.3	108	96	42	2	0	0	0	1	1		
KNOXVILLE	84	62	87	58	73	-4	.7	-.1	-.6	14.3	134	37.3	115	99	45	3	0	0	0	2	1		
MEMPHIS	88	67	94	61	77	-3	.0	-.8	-.0	4.4	42	41.6	117	88	41	3	0	0	0	0	1		
WASHVILLE	87	63	91	58	75	-3	.0	-.8	-.0	5.1	51	26.1	79	98	44	2	0	0	0	2	0		
TX ABILENE	90	69	95	68	80	-3	-.1	-.5	-.1	12.1	188	18.2	121	87	43	4	0	0	0	1	0		
AMARILLO	91	64	93	59	77	1	.1	-.6	-.6	5.9	69	10.3	72	90	32	5	0	0	0	2	0		
AUSTIN	97	75	99	73	86	1	.0	-.5	-.5	9.2	141	31.2	160	90	40	7	0	0	0	0	0		
BEAUMONT	94	73	97	71	84	1	.0	-.2	-.2	12.9	85	54.6	153	96	48	6	0	0	0	1	0		
BROWNSVILLE	97	76	99	74	86	2	.5	-.2	-.5	4.1	67	20.4	156	96	44	7	0	0	0	1	1		
CORPUS CHRISTI	95	76	98	75	86	1	1.3	-.4	1.0	10.1	114	25.6	143	96	49	7	0	0	0	1	1		
DEL RIO	99	75	104	74	87	2	.7	-.3	-.7	4.8	104	10.4	99	76	30	7	0	0	0	2	1		
EL PASO	94	68	97	66	81	1	.0	-.3	-.0	4.8	157	6.3	139	81	29	7	0	0	0	0	0		
FORT WORTH	94	72	100	70	83	-2	.0	-.4	-.4	10.7	180	28.0	138	91	43	5	0	0	0	2	0		
GALVESTON	90	79	95	75	84	1	1.5	-.5	-.8	11.9	113	43.5	182	84	59	4	0	0	0	3	2		
HOUSTON	94	74	96	72	84	1	.4	-.6	-.4	11.2	102	40.7	140	95	45	7	0	0	0	2	0		
LUBBOCK	91	66	93	64	79	2	.0	-.5	-.5	9.6	142	13.3	109	93	38	7	0	0	0	0	0		
MIDLAND	91	66	96	63	79	-2	.0	-.4	-.4	13.4	313	16.0	187	88	36	5	0	0	0	0	0		
SAN ANGELO	93	68	101	64	80	-2	.3	-.1	-.3	7.3	168	11.9	110	90	37	6	0	0	0	1	0		
SAN ANTONIO	98	74	101	71	86	2	1.5	-.9	1.2	6.0	88	24.7	138	90	37	7	0	0	0	3	1		
VICTORIA	95	75	97	74	85	2	.0	-.8	-.8	16.1	170	43.4	198	97	46	7	0	0	0	2	0		
WACO	96	72	99	69	84	-1	2.2	1.8	2.2	13.5	235	27.6	139	95	42	7	0	0	0	1	1		
WICHITA FALLS	94	70	98	67	82	-2	1.2	-.7	1.2	7.4	116	15.9	92	93	41	7	0	0	0	1	0		
UT CEDAR CITY	91	59	94	53	75	4	.2	-.1	-.1	3.9	158	7.9	116	56	18	6	0	0	0	2	0		
SALT LAKE CITY	93	66	99	61	80	6	.0	-.2	-.2	1.1	7	11.6	92	93	41	7	0	0	0	1	0		
VT BURLINGTON	76	59	83	51	67	1	.7	-.2	-.2	2.0	85	10.3	100	63	21	5	0	0	0	2	0		
VA NORFOLK	86	70	91	67	78	1	1.1	-.1	-.8	6.9	68	18.1	85	98	56	0	0	0	0	4	0		
RICHMOND	88	67	91	63	78	1	1.1	-.1	-.8	14.6	115	31.9	106	97	60	1	0	0	0	2	1		
ROANOKE	85	60	89	54	72	1	1.1	-.0	-.7	12.6	100	25.0	86	95	49	2	0	0	0	3	1		
WA QUILLAYUTE	67	50	75	44	58	-2	.2	-.7	-.7	11.8	120	30.4	117	95	44	0	0	0	0	2	0		
SEATTLE-TACOMA	81	57	88	52	69	0	.0	-.3	-.0	9.6	126	58.0	99	99	67	0	0	0	0	1	0		
SPOKANE	90	61	95	54	75	5	.0	-.2	-.0	2.4	81	24.1	116	87	42	0	0	0	0	0	0		
YAKIMA	93	57	98	50	75	7	.0	-.1	-.0	1.9	83	9.7	96	58	22	5	0	0	0	0	0		
WV BECKLEY	79	57	86	49	68	0	.0	-.1	-.0	2.8	289	5.3	114	76	21	5	0	0	0	0	0		
CHARLESTON	84	61	90	54	73	-1	.8	-.0	-.4	7.8	67	25.7	88	97	51	0	0	0	0	3	0		
HUNTINGTON	85	63	90	58	74	-1	.3	-.6	-.2	8.3	69	24.9	84	100	47	1	0	0	0	3	0		
PARKERSBURG	82	62	88	57	72	-1	.3	-.5	-.3	6.7	60	25.2	88	96	46	2	0	0	0	2	0		
WI GREEN BAY	76	57	82	49	66	0	1.2	-.4	-.7	13.8	128	30.1	113	98	57	0	0	0	0	3	1		
LACROSSE	81	60	86	53	71	0	.3	-.4	-.3	7.3	83	16.4	88	98	57	0	0	0	0	2	0		
MADISON	81	56	88	47	68	0	.1	-.8	-.1	9.1	85	25.5	121	97	49	0	0	0	0	1	0		
MILWAUKEE	79	63	89	58	71	2	.0	-.9	-.9	11.3	107	24.2	114	95	47	0	0	0	0	0	0		
WAUSAU	76	54	82	49	65	-1	.1	-.6	-.1	8.7	92	22.7	108	90	53	0	0	0	0	1	0		
WY CASPER	90	56	94	49	73	5	.3	-.6	-.2	12.0	108	25.6	119	100	56	0	0	0	0	2	0		
CHEYENNE	84	55	88	52	69	3	.5	-.3	-.5	2.3	83	9.8	118	64	17	4	0	0	0	1	0		
LANDER	89	57	92	50	73	5	.0	-.4	-.4	9.4	189	15.3	148	75	25	0	0	0	0	3	0		
SHERIDAN	93	57	95	53	75	8	.1	-.1	-.1	1.7	69	10.6	111	54	18	3	0	0	0	0	0		

Based on 1951-80 normals

National Agricultural Summary

August 19 - 25, 1991

HIGHLIGHTS: Heavy rains from Hurricane Bob stalled farm activity in the New England States, and associated high winds caused extensive damage to northern Atlantic coast fruits and vegetables. Much needed rains fell in the Ohio Valley, but most of the Midwest remained in dire need of additional soil moisture. Hot, dry weather advanced crop development from the mountain ranges of the West to the northern Great Plains.

SMALL GRAINS: Hot, dry weather allowed winter wheat harvest to advance rapidly in the Pacific Northwest and northern Rocky Mountains. Montana's winter wheat harvest reached 72% complete, and harvest was 75% complete in Washington. Winter wheat seeding for the 1992 crop was beginning in Colorado and Oklahoma, and continued in Minnesota. Spring wheat harvest continued to progress slightly ahead of schedule, reaching 83% complete in the five major producing States, compared with 80% last year and the 79% average. Harvest of oats neared completion in Wisconsin, but surpassed the midway point in the Rocky Mountains.

CORN: Corn development continued to outpace both last year and the historic average in the 17 major producing States. Eighty-seven percent of the crop was in the dough stage in the major producing States, 23 points ahead of last year and 4 points ahead of the average. Fifty-nine percent of the corn had denting, compared with 22% last year and the 49% average. Development remained well ahead of schedule in the Ohio Valley, but lagged in Iowa. Crop condition ratings were largely unchanged from the previous week, remaining mostly good in the Great Lakes, Iowa, and Minnesota. Much of the corn from Missouri to Pennsylvania, encompassing Illinois and the Ohio Valley, remained in poor to very poor condition. Corn harvest continued in the South and some short-season corn was harvested in Kansas and Missouri.

SOYBEANS: Soybean progress remained slightly ahead of normal at the 19-State level, with advanced development in the Corn Belt and slower growth in the Delta. In the 19 major producing States, pods were setting in 86% of the acreage, 8 points ahead of last year and 1 point ahead of the average. Leaves were dropping in 5% of the acreage, compared with 1% last year and the 3% average. Development was notably ahead of normal in Kansas, South Dakota, and the Ohio Valley, but behind normal in the Gulf Coast States and Tennessee. Conditions were rated mostly fair for the major producing States, with fair conditions in the Central States and the Delta, and good conditions in the Southeast and northern States. Loopers and aerial blight were reported to be causing significant problems in Louisiana fields.

COTTON: Cotton bolls were opening in 17% of the acreage in the 14 major producing States, 7 points behind last year and 4 points behind the average. Crop progress was behind normal in 13 of the 14 major States, being more advanced only in Texas. Crop conditions were rated mostly good in the West and Southwest and mostly fair to good from the Mississippi Valley eastward. Forty-one percent of the Alabama crop was rated poor and 1% was rated very poor. Cotton picking continued in Texas and defoliation was undertaken in Arizona.

GRAIN SORGHUM: Sorghum heading advanced to 80% in the 12 major producing States, 3 points ahead of last year and the historic average. Grain

heads were turning color on 47% of the acreage, 11 points ahead of last year and 3 points ahead of the average. Development was somewhat behind in the Mississippi Valley, Colorado, and Oklahoma, but ahead of schedule in Illinois, Kansas, and Nebraska. Crop condition was rated fair to good in the major States. Harvest continued in Louisiana, Mississippi, and Texas.

RICE: Harvest was active in Texas and the Delta, with progress reaching 26% complete in the 5 major producing States, 7 points ahead of last year and 5 points ahead of the average. Harvest progress exceeded 60% in Louisiana and Texas, while remaining less than 10% in Arkansas and Mississippi. Heading advanced to 83% of the Nation's acreage, 4 percentage points ahead of last year, but 5 points behind the historic average. Crop condition remained mostly fair in Mississippi, and mostly good in the other major producing States. Blackbird damage was reported in some California fields.

OTHER FIELD CROPS: Dry bean harvest was getting underway in Colorado and Idaho, and continued in the northern Great Plains. Cutting of corn for silage was active across the Nation. Alfalfa's second cutting advanced in the Northwest, while the third and fourth cuttings of hay continued in the Midwest and East. Potato harvest was commencing in Idaho, Oregon, and Washington. Peanut digging got underway in the Southeast and advanced in Mississippi. Flax harvest was underway in Minnesota. Safflower harvest continued in California. Dry peas and lentils were being harvested in the Pacific Northwest.

FRUIT AND NUTS: Excessive fruit drop occurred in southern and eastern areas of the Northeast hit by the hurricane. Apple, peach, and pear harvests were active in the region. Lemon, peach, and apple harvests were active in Arizona. California table grape harvest remained steady with Thompson Seedless grapes being picked for champagne juice and raisins. Picking of peaches, pears, nectarines, prunes, grapefruit, and apples continued in the State. California's almond harvest began. A few packinghouses in Florida opened for packing grapefruit.

VEGETABLES: Much unharvested sweet corn was blown down by high winds in the Northeast. Sweet corn was 66% harvested in New England. California harvests of broccoli, cauliflower, celery, lettuce, melons, and tomatoes remained active, as did transplanting of fall crop broccoli and cauliflower. Onion harvest continued in Colorado, Idaho, and Oregon. Harvests of sweet corn, tomatoes, and snap beans were well along in Maryland and Delaware. Sweet corn, broccoli, snap bean, and cucumber harvests continued in Oregon.

PASTURES AND LIVESTOCK: Supplemental feeding increased in the drier parts of the country, principally in California, Kansas, and the eastern Corn Belt. Pasture and range feed supplies remained excellent in Colorado and good to excellent in Texas and the Southeast.

CROP PROGRESS

For Week Ending August 25, 1991

	Corn % Dough		
	1991	1990	Avg.
CO	57	50	69
GA	100	100	100
IL	97	71	89
IN	100	67	90
IA	66	52	83
KS	99	90	90
KY	94	71	89
MI	75	20	55
MN	89	66	85
MO	95	78	94
NE	97	81	90
NC	98	95	96
OH	100	52	78
PA	72	42	57
SD	87	63	64
TX	99	100	99
WI	69	37	64

17 States 87 64 83

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

	Corn % Dent		
	1991	1990	Avg.
CO	23	12	34
GA	99	98	99
IL	89	22	60
IN	86	16	50
IA	38	17	54
KS	65	45	55
KY	69	36	62
MI	26	2	15
MN	32	8	40
MO	79	43	78
NE	61	23	45
NC	87	85	84
OH	79	14	39
PA	28	8	16
SD	48	16	28
TX	88	99	89
WI	32	8	27

17 States 59 22 49

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

	Cotton % Bolls Opening		
	1991	1990	Avg.
AL	12	29	22
AZ	22	50	52
AR	8	2	17
CA	5	8	11
GA	10	42	27
LA	9	63	39
MS	16	60	39
MO	8	1	19
NM	17	18	29
NC	14	12	18
OK	1	1	6
SC	14	17	14
TN	10	7	12
TX	24	18	16

14 States 17 24 21

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

	Soybeans % Setting Pods		
	1991	1990	Avg.
AL	59	68	63
AR	55	36	53
GA	81	76	81
IL	100	83	96
IN	99	86	93
IA	94	96	99
KS	90	70	85
KY	59	40	57
LA	68	84	79
MI	90	80	80
MN	97	99	98
MS	51	71	62
MO	75	54	82
NE	97	87	95
NC	64	53	50
OH	100	89	89
SC	50	46	48
SD	96	92	89
TN	48	56	65

19 STATES 86 78 85

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

	Soybeans % Dropping Leaves		
	1991	1990	Avg.
AL	1	3	2
AR	4	0	0
GA	1	8	4
IL	12	0	4
IN	5	0	5
IA	0	0	1
KS	15	4	10
KY	8	5	5
LA	0	0	0
MI	2	0	1
MN	3	1	4
MS	0	0	0
MO	0	0	0
NE	0	0	0
NC	0	0	0
OH	17	0	9
SC	0	0	0
SD	13	8	7
TN	0	0	2

19 States 5 1 3

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

	Rice % Headed		
	1991	1990	Avg.
AR	81	65	83
CA	65	75	78
LA	93	92	95
MS	71	98	94
TX	100	100	100

5 States 83 79 88

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

	Spring Wheat % Harvested		
	1991	1990	Avg.
ID	45	68	65
MN	96	93	87
MT	47	70	65
ND	88	75	77
SD	95	97	96

5 States 83 80 79

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

	Rice % Harvested		
	1991	1990	Avg.
AR	9	0	2
CA	0	0	0
LA	62	59	50
MS	7	1	4
TX	67	59	73

5 STATES 26 19 21

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

Grain Sorghum
% Coloring

	1991	1990	Avg.
AR	61	55	73
CO	14	21	26
IL	56	8	45
KS	25	15	20
LA	78	84	82
MS	55	61	76
MO	49	18	53
NE	47	14	36
NM	13	7	NA
OK	32	23	53
SD	29	32	30
TX	75	76	69

12 States 47 36 NA

Excl. States with NA 47 37 44

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

NA - not available.

Grain Sorghum
% Headed

	1991	1990	Avg.
AR	90	84	94
CO	79	76	83
IL	98	52	88
KS	90	85	80
LA	97	95	97
MS	88	96	98
MO	90	73	92
NE	92	89	95
NM	87	85	NA
OK	75	69	86
SD	83	82	84
TX	94	98	93

12 States 90 87 NA

Excl. States with NA 91 87 88

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

NA - not available.

Crop Condition
PERCENT

For Week Ending August 25, 1991

Cotton

State	VP	P	F	G	EX
AL	1	41	31	27	0
AZ	0	0	0	62	38
AR	0	12	28	54	6
CA	0	0	5	90	5
GA	0	0	16	82	2
LA	0	2	37	61	0
MS	0	14	42	39	5
MO	0	14	57	29	0
NM	0	0	36	64	0
NC	0	0	23	74	3
OK	0	0	57	43	0
SC	0	0	74	26	0
TN	5	10	53	27	5
TX	0	6	25	60	9
14 State	0	7	28	58	7
Prev Week	0	3	32	59	6
Prev Year	1	6	43	46	4

Grain Sorghum

State	VP	P	F	G	EX
AR	5	23	56	11	5
CO	0	3	29	56	12
IL	0	11	45	44	0
KS	4	29	48	19	0
LA	0	23	45	32	0
MS	0	13	68	17	2
MO	7	34	41	18	0
NE	6	32	31	30	1
NM	0	3	17	80	0
OK	0	9	24	67	0
SD	3	9	36	45	7
TX	0	1	27	57	15
12 State	3	18	37	37	5
Prev Week	3	17	37	36	7
Prev Year	0	5	34	53	8

Soybeans

State	VP	P	F	G	EX
AL	0	11	28	42	19
AR	0	25	56	19	0
GA	0	0	11	80	9
IL	6	14	48	30	2
IN	5	17	55	23	0
IA	0	3	34	57	6
KS	13	37	42	6	2
KY	2	16	67	14	1
LA	6	22	34	38	0
MI	1	4	20	45	30
MN	0	6	36	50	8
MS	7	13	60	16	4
MO	9	27	41	23	0
NE	1	12	51	33	3
NC	0	0	18	75	7
OH	6	19	42	29	4
SC	0	0	16	78	6
SD	0	3	27	46	24
TN	1	15	52	28	4
19 State	4	14	41	36	5
Prev Week	3	14	41	37	5
Prev Year	1	7	33	50	9

Rice

State	VP	P	F	G	EX
AR	0	0	21	79	0
CA	0	0	20	80	0
LA	0	0	46	54	0
MS	11	3	73	11	2
TX	0	0	40	60	0
5 State	1	0	33	66	0
Prev Week	1	2	31	65	1
Prev Year	0	0	37	60	3

Corn

State	VP	P	F	G	EX
CO	0	3	17	53	27
GA	0	0	12	63	25
IL	15	13	52	18	2
IN	15	37	38	10	0
IA	1	5	41	49	4
KS	2	14	37	23	24
KY	2	11	70	12	5
MI	1	5	24	45	25
MN	2	5	32	54	7
MO	9	22	46	22	1
NE	2	10	20	60	8
NC	0	1	28	70	1
OH	10	27	39	21	3
PA	21	28	29	17	5
SD	3	15	21	42	19
TX	0	0	10	61	29
WI	1	1	16	70	12
17 State	6	12	35	39	8
Prev Week	5	12	36	38	9
Prev Year	1	4	17	61	17

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

State Summaries of Weather and Agriculture

These summaries provide brief descriptions of crop and weather conditions important on a national scale. More detailed data are available in Weather and Crop Bulletins published each Monday by NASS State Statistical Offices in cooperation with the National Weather Service.

ALABAMA: Rain 0.50 to 1.50 in.; up to 3.00 in. local areas. Temperatures 2 to 5° below normal.

Days suitable for fieldwork 6.4. Soil moisture 63% short, 37% adequate. Corn 98% dented, 98% 1990, 98% avg.; 78% mature, 82% 1990, 83% avg.; 36% harvested, 46% 1990, 46% avg.; 8% poor, 17% fair, 59% good, 16% excellent. Sorghum 12% harvested, 20% 1990, 23% avg.; 17% poor, 54% fair, 27% good, 2% excellent. Peanuts 2% dug, 3% 1990, 1% avg.; 14% fair, 86% good. Cotton 12% bolls opened, 29% 1990, 22% avg.; 1% very poor, 41% poor, 31% fair, 27% good. Soybeans 85% blooming, 91% 1990, 84% avg.; 59% setting pods, 68% 1990, 63% avg.; 5% turning color, 12% 1990, 14% avg.; 1% dropping leaves, 3% 1990, 2% avg.; 11% poor, 28% fair, 42% good, 19% excellent. Pastures 2% very poor, 15% poor, 25% fair, 49% good, 9% excellent. Livestock 3% poor, 17% fair, 77% good, 3% excellent.

ALASKA: Seasonally cooler temperatures, scattered showers, wind abounded. Highs 8° below normal to 3° above normal. Lows 2° below normal to 2° above normal. Seasonal rainfall 3.20 in. drier than normal at Fairbanks to 1.14 in. wetter than normal at Anchorage.

Days suitable for haying, harvesting 3.0. Topsoil 4% short, 86% adequate, 10% surplus. Subsoil 1% short, 99% adequate. Barley turning color, 70% ripe, some swathed. Oats, turning color, 35% ripe. Second crop hay 20% complete. Commercial potato harvest for seed began. Some moderate lodging to small grains occurred.

ARIZONA: Sunny, hot, humid throughout period. Light showers, east, 18th. Scattered showers, 19th to 21st southeast. Thunderstorms southeast, south central 22nd; central, 23rd. Precipitation trace west to 0.68 in. southeast; temperatures normal to 7° above normal. Extremes 45°; 98° higher elevations, 63°; 114° desert.

Cotton bolls opening 22%, 50% 1990, 52% avg.; cotton 62% good, 38% excellent. Alfalfa harvest mostly moderate; weed, insect infestations light to moderate; alfalfa good. Lemons harvested, west. Watermelons, cantaloupe harvested, central. Mixed vegetables harvested central, east. Peaches, apples harvested east.

ARKANSAS: Temperatures slightly below average with scattered showers mid week. Extremes -48°; 97°. Rainfall none to 3.13 in.

Days suitable for fieldwork 6. Soil moisture 56% short, 43% adequate, 1% surplus. Corn harvested 45%, 0% 1990, 27% avg.; 38% fair, 62% good. Sorghum harvested 11%, 0% 1990, 13% avg. Pasture 5% very poor, 18% poor, 42% fair, 35% good. Alfalfa 10% poor, 61% fair, 29% good. Other hay 10% poor, 73% fair, 17% good. Livestock good.

CALIFORNIA: High pressure dominated the weather pattern, although a low pressure trough off the north coast continued to swing very weak disturbances through the northern end of the State. No measurable rain was reported. Temperatures generally remained around normal.

Open weather permitted progress field activities. Discing harvested wheat continued. Higher elevation fields still unharvested. Rice development slowed cool temperatures. Blackbird damage some areas. Cotton good growth, bolls opening. Irrigation, treatments aphids, lygus, whiteflies, worms active. Defoliation began Riverside County. Alfalfa seed, corn silage, safflower, sugar beet harvests continued. Dry bean harvest underway. Alfalfa, dry beans sprayed insect control. Planting next year's sugar beets continued. Alfalfa, sudan hay harvests normal. Grape growers treated crop for insects. Table grape harvest remained steady; Thompson Seedless used for champagne juice, raisins. Peaches, pears, nectarines harvested and packed, good quality. Early prunes harvested. Some prune orchards showed potassium deficiencies. Wind helped dry prunes; caused little damage. Early apple harvesting continued; growers treated later apples for codling moth. Olive trees continued to show freeze effects. Olive crop looked light. Dates being dusted for beetles. Almond harvest began. Grapefruit harvest continued. Citrus fruits developing well; pruning of freeze damaged trees continued. Broccoli, cauliflower generally light supply, variable quality. Harvest, packing all types melons active. Celery heavy supply, generally good quality. Iceberg lettuce moderate to heavy supply, variable quality. Planting fall crop Iceberg lettuce continued. Fresh market, processing tomato harvest active. Insect control continued, vegetable, potato fields. Field preparation, fall planting, continued, desert districts. Fall crop broccoli, cauliflower transplanting active. Sweet potato harvest continued. Cantaloupe, honeydew, mixed melon harvest continued. Range conditions very poor to good northern state. Southern areas very poor to fair. Supplemental feeding continued.

COLORADO: Near normal conditions prevailed over State. Scattered thunderstorms in the afternoons, evenings provided generally light, some locally heavy rainfall. Temperatures nearly all locations were within 2° of normal.

Days suitable for fieldwork 5.2. Soil moisture 5% very short, 20% short, 66% adequate, 9% surplus. Second cutting alfalfa 67% complete, 74% 1990, 82% avg.; third cutting 19% complete, 20% 1990, 22% avg. Barley 44% harvested, 63% 1990, 75% avg. Oats 65% harvested, 65% 1990, 64% avg. Dry beans 5% cut, 5% 1990, 12% avg. Sorghum 14% turning color, 21% 1990, 26% avg. Corn 57% in dough, 50% 1990, 69% avg.; 23% dent, 12% 1990, 34% avg.; 3% poor, 17% fair, 53% good, 27% excellent. Dry beans 1% very poor, 9% poor, 15% fair, 56% good, 19% excellent. Sorghum 3% poor, 29% fair, 56% good, 12% excellent. Onion harvest 21% complete, 39% 1990, 27% avg. Winter wheat seeding, corn silage harvesting is just getting underway. Livestock mostly good. Pasture, range feed excellent.

FLORIDA: Temperatures 2 to 4° below normal north, near normal other areas. Extreme highs low to mid 90s all areas. Extreme lows lower 60s Panhandle, Big Bend; lower 70s elsewhere.

Rainfall totals less than 1.00 in northeast, 1.00 to 3.00 in. elsewhere. Isolated areas 5.00 in. plus.

Soil moisture adequate to surplus all areas. Peanut, corn harvest gaining momentum. Haying active weather permitting. Cotton, soybeans, sugarcane making good progress. State's pastures mostly good to excellent. Pasture ratings, 60% good, 40% excellent. States herds mostly good to excellent. Citrus groves, trees excellent. Moisture adequate due to several rains. Abundant new foliage. New crop fruit sizing well. Few east coast, interior packinghouses open for the season packing grapefruit. Few Hamlin orange crops are ready to be picked. Caretakers cutting cover crops, resetting, planting new blocks continues. Field preparation active, central, southern vegetable producing areas. Wet ground slowed ground preparation some areas. Early plantings made generally good progress. Heat stress evident in recently transplanted fields.

GEORGIA: Rain most areas, 1.00 in. or more, local 3.00 to 5.00 in. mountains. Parts of southwest, south central less than 0.25 in. Cooler than normal temperatures 2 to 4° below normal, except 1 to 2° below normal southeast. Coolest temperatures mostly 50s north, and 60s elsewhere. Clayton, Blairsville both low of 52°. Warmest temperatures low 80s higher mountains, mid 90s Southeast.

Days suitable for fieldwork 5.4. Soil moisture 6% short, 85% adequate, 9% surplus. Corn 96% mature, 97% 1990, 98% avg.; 47% harvested for grain, 66% 1990, 54% avg.; good harvest weather early in week. Sorghum 6% fair, 84% good, 10% excellent; 7% harvested for grain, 1% 1990, 1% avg.; harvest active. Peanuts 15% fair, 82% good, 3% excellent; 4% dug, 3% 1990, 2% avg.; 2% threshed, 1% 1990, 1% avg.; harvest active, slowed by weekend rain. Tobacco 69% fair, 28% good, 3% excellent, 96% harvested, 84% 1990, 87% avg. Apples 5% fair, 95% good; 34% harvested, 41% 1990, 38% avg. Pecans 24% fair, 75% good, 1% excellent. Hay, pastures good. Cattle, hogs good to excellent.

HAWAII: Hot, humid weather, low rainfall prevailed across State. High of 92° on 23rd, equaled record set in 1983. Trade winds 5 to 25 mph. Temperatures high 60s to low 90s. Rainfall none to 2.90 in.

Days suitable for fieldwork 7.0. Most crops progressed well with beneficial weather. Heavy irrigation necessary major crop areas. Insect spraying continued active. Molokai's watermelon harvest expected heavy. Banana, sweet corn seasonally increased. Papaya output increased.

IDAHO: Precipitation fell mainly in east; Grace received most with 0.48 in. Temperatures 4 to 10° above normal Statewide.

Days suitable for fieldwork 7. Soil moisture 13% very short, 26% short, 61% adequate. Winter wheat good; 99% turning color, 54% harvested. Spring wheat good; 97% turning color, 45% harvested. Spring barley 97% turning color, 50% harvested. Potato good; 44% turning, 18% vines dying/killed, 2% harvested. Oats 50% harvested, 54% 1990, 59% avg. Second cutting alfalfa 84% complete, 86% 1990, 91% avg. Third cutting alfalfa 10% complete, 19% 1990, 14% avg. Dry peas 78% harvested, 99% 1990, 93% avg. Lentils 70% harvested, 97% 1990, 84% avg. Mint 86% harvested, 98% 1990, 82% avg. Plum, prune harvest 57% complete, 34% 1990, 38% avg. Hops 17% harvested, 6% 1990, 13% avg. Onions 17%

harvested, 22% 1990, 13% avg. Sweet corn harvest 21% complete. Dry bean harvest 5% complete, 6% 1990, 8% avg. Pasture, range conditions 79% of normal.

ILLINOIS: Temperatures 1 to 3° above normal across the State. Precipitation generally 0.01 to 0.50 in. across the State.

Days suitable for fieldwork 6.50. Soil moisture 90% short, 10% adequate. Corn mature 36%, 1% 1990, 13% avg. Soybeans turning yellow 33%, 2% 1990, 15% avg. Pasture condition as a % of normal, where 100% = normal, was 65%. Alfalfa third cutting 64%, 48% 1990, 64% avg. Alfalfa 6% very poor, 20% poor, 51% fair, 22% good, 1% excellent.

INDIANA: Temperatures normal to 3° above normal. Highs upper 70s to upper 80s. Lows upper 50s to mid 60s. Precipitation 0.10 to 0.70. More rain north, central, less west central, southwestern.

Days suitable for fieldwork 5.4. Topsoil 60% short, 40% adequate. Subsoil 90% short, 10% adequate. Corn acreage mature 12%, 1% 1990, 14% avg. Soybeans turning color 26%, 3% 1990, 15% avg. Tobacco harvested 31%, 9% 1990, 16% avg. Peaches harvested over 90%. Alfalfa hay 3rd cutting 51%. Pasture 44% of normal. Wheat acres plowed 23%, 21% 1990, 21% avg. Early scattered showers. Preparations for fall harvest.

IOWA: Temperatures 0 to 2° above normal. Extremes 46°; 96°. Precipitation none to 1.96 in.; average 0.28 in.

Days suitable for fieldwork 6.0. Topsoil 36% short, 62% adequate 2% surplus. Subsoil 37% short, 62% adequate, 1% surplus. Hay 3% very poor, 9% poor, 48% fair, 34% good, 6% excellent. Pasture condition 74% of normal. Corn 92% in milk stage, 92% 1990, 98% avg. Third cutting alfalfa 46% harvested, 46% 1990, 55% avg. Second cutting clover hay 90% harvested, 84% 1990, 95% avg. Livestock mostly good, some stress hot weather.

KANSAS: Temperatures 1° above normal east, normal remainder of State. Rainfall recorded all areas, central one third State received most precipitation.

Days suitable for fieldwork 6.5. Surface moisture 77% short, 23% adequate. Subsurface moisture 89% short, 11% adequate. Row crops stressed by hot, dry weather. Some short season corn harvested southeast, south central areas. Range, pastures poor statewide. Pastures central to northwest fair to good; remainder poor condition. Supplies of hay, roughage adequate all locations. Forage reported short except northwest, west central adequate. Stockwater short except western one third of State. Third cutting alfalfa 85% complete; fourth cutting 20%.

KENTUCKY: Scattered showers, cold temperatures followed by hot, humid weather. High temperatures low to mid 90s, lows mid 50s. Normal average temperatures low to mid 70s. Rainfall 0.25 to 0.75 in.

Days suitable for fieldwork 5.3. Soil moisture 38% very short, 44% short, 18% adequate. Tobacco 1% very poor, 10% poor, 63% fair, 26% good. Burley 46% cut, 22% 1990, 29% avg. Dark tobacco 38% cut. Corn 24% mature, 5% 1990, 18% avg. Hay crops poor to good with mostly fair. Feeding hay to livestock in some areas.

LOUISIANA: Temperatures 2° below to 1.7° above normal. Extremes 64°; 99°. Rainfall 0.07 in. south central to 1.43 in. northwest.

Days suitable for fieldwork 5.3. Soil moisture 2% very short, 24% short, 72% adequate, 2% surplus. Corn 86% harvested, 77% 1990, 59% avg. Cotton 99% setting bolls, 100% 1990, 100% avg. Hay 100% first cutting; 31% final cutting, 48% 1990, 39% avg. Peaches 100% harvested, 97% 1990, 99% avg. Rice 72% ripe, 77% 1990, 66% avg. Second crop management continued, southwest, late crop dressing began. Sorghum 63% ripe, 69% 1990, 58% avg.; 35% harvested, 49% 1990, 36% avg. Soybeans 87% blooming, 95% 1990, 94% avg.; 3% leaves turning color, 12% 1990, 8% avg. Loopers, aerial blight causing significant problems. Sweet potatoes 72% fair, 28% good; 24% harvested, 28% 1990, 22% avg. Sugarcane 24% air, 66% good, 10% excellent; 14% planted, 8% 1990, 10% avg. Borers control continued. Vegetables 3% very poor, 12% poor, 59% fair, 24% good, 2% excellent. Pastures 5% poor, 7% fair, 12% good, 76% excellent. Armyworms continued to be a problem statewide. Livestock 20% fair, 65% good, 15% excellent.

MARYLAND & DELAWARE: MARYLAND: Precipitation 1.17 in. Temperature 76.5°, normal 74.2°. Extremes 46°; 93°.

Days suitable for fieldwork 4.8. Topsoil 5% very short, 39% short, 56% adequate. Subsoil 11% very short, 28% short, 61% adequate. Field corn poor to fair, soybeans, sorghum fair to good, tobacco good. Field corn 87% dough, 71% 1990, 79% avg.; 70% dent, 42% 1990, 50% avg.; 32% mature, 2% 1990, 7% avg.; 37% harvested for silage, 2% 1990, 11% avg. Soybeans 93% bloomed, 87% 1990, 85% avg.; 77% set pods, 66% 1990, 63% avg.; 13% turned, N/A 1990, N/A avg. Sorghum 87% headed, N/A 1990, N/A avg.; 40% turned, N/A 1990, N/A avg. Tobacco 90% bloomed, 88% 1990, 87% avg.; 71% topped, 70% 1990, 63% avg.; 44% harvested, 30% 1990, 29% avg. Sweet corn 90% harvested, 74% 1990, 80% avg. Potatoes 81% harvested, 93% 1990, 73% avg. Watermelons 86% harvested, 86% 1990, 86% avg. Cantaloupes 90% harvested, 83% 1990, 88% avg. Lima beans 55% harvested, 32% 1990, 45% avg. Tomatoes 88% harvested, 82% 1990, 72% avg. Hay second cut 70% complete, 79% 1990, 86% avg.; third cut 12% complete, 14% 1990, 34% avg. Alfalfa third cut 85% complete, 75% 1990, 79% avg.; fourth cut 18% complete, 5% 1990, 11% avg. Hay supplies short. Pasture very poor condition. Peaches, apples excellent. Peaches 83% harvested, 81% 1990, 71% avg. Apples 19% harvested, 18% 1990, 18% avg.

DELAWARE: Precipitation 1.90 in. Temperature 76.0°, normal 74.6°. Extremes 61°; 90°.

Days suitable for fieldwork 5.3. Topsoil 40% short, 60% adequate. Subsoil 30% short, 70% adequate. Field corn, soybeans good. Field corn 73% dent, 76% 1990, 61% avg.; 16% mature, 5% 1990, 9% avg.; 26% harvested for silage, 16% 1990, 11% avg. Soybeans 61% set pods, 48% 1990, 52% avg. Sorghum 21% turned, N/A 1990, N/A avg. Sweet corn 75% harvested, 80% 1990, 85% avg. Potatoes 58% harvested, 85% 1990, 80% avg. Watermelons 91% harvested, 66% 1990, 80% avg. Cantaloupes 83% harvested, 95% 1990, 93% avg. Cucumbers 72% harvested, 78% 1990, 86% avg. Lima beans 27% harvested, 21% 1990, 27% avg. Snap beans 83% harvested, 86% 1990, 87% avg. Tomatoes 70% harvested, 73% 1990, 63% avg. Hay third cut 60% complete, 47% 1990, 63% avg. Alfalfa hay third cut 90% complete, 78% 1990, 87% avg.; fourth cut 13% complete, 4% 1990, 17% avg. Hay supplies adequate. Pasture good to excellent. Apples good; 26% harvested, 27% 1990, 23% avg.

MICHIGAN: Temperatures 2° below to 1° above normal. Extremes 37°; 88°. Precipitation none to 3.75 in. across the State.

Days suitable for fieldwork 6.0. Soil moisture 20% short, 75% adequate, 5% surplus. Corn 75% dough, 20% 1990, 55% avg.; 26% dent, 2% 1990, 15% avg.; 1% very poor, 5% poor, 24% fair, 45% good, 25% excellent. Soybeans 90% setting pods, 80% 1990, 80% avg.; 2% dropping leaves, 0% 1990, 1% avg.; 1% very poor, 4% poor, 20% fair, 45% good, 30% excellent. Pasture 75% of normal.

MINNESOTA: Temperatures 1 to 6 above normal. Extremes 37°; 93°. Precipitation 0.07 to 1.04 in. Greatest weekly total 1.82.

Days suitable for fieldwork 5.7. Topsoil 19% very short, 23% short, 50% adequate, 8% surplus. Spring wheat 96% harvested, 83% 1990, 87% avg. Field corn 89% in dough, 66% 1990, 85% avg.; 32% dent, 8% 1990, 40% avg.; 5% mature, 0% 1990, 3% avg.; 4% silage cut, 0% 1990, 1% avg. Soybeans 18% turning yellow, 11% 1990, 22% avg.; 3% dropping leaves, 1% 1990, 4% avg. Dry beans 17% harvested, 1% 1990, 2% avg. Potatoes 11% harvested, 5% 1990, 10% avg. Flax 8% harvested, 10% 1990, 17% avg. Sweet corn 60% harvested, 39% 1990, 60% avg. Winter wheat 8% seeded, 6% 1990, 11% avg. Rye 9% seeded, 9% 1990, 14% avg. Hay, small grain 41% stubble plowed, tilled, 38% 1990, 40% avg. Field corn 2% very poor, 5% poor, 32% fair, 54% good, 7% excellent. Soybeans 6% poor, 36% fair, 50% good, 8% excellent.

MISSISSIPPI: Temperatures 77°, 2.9° below normal. Extremes 51°; 97°. Mostly dry statewide, 0.18 in., 0.06 below normal. Soil temperatures 85°.

Days suitable for fieldwork 6.3, 6.4 1990, 5.8 5 yr avg. Soil moisture 22% very short, 53% short, 25% adequate. Corn dough 92%, 97% 1990, 97% avg.; 80% denting, 84% 1990, 87% avg.; 76% mature, 54% 1990, 59% avg.; 19% harvest, 20% 1990, 19% avg.; silage harvest 78%, 69% 1990, 69% avg.; 23% poor, 35% fair, 33% good, 9% excellent. Cotton open bolls 16%, 60% 1990, 39% avg.; 14% poor, 42% fair, 39% good, 5% excellent. Peanuts 23% harvest 24% 1990, 25% avg. Rice 71% heading, 98% 1990, 94% avg.; 17% mature, 30% 1990, 37% avg.; 7% harvest, 1% 1990, 4% avg.; 11% very poor, 3% poor, 73% fair, 11% good, 2% excellent. Sorghum 88% heading, 96% 1990, 98% avg.; 55% coloring, 61% 1990, 76% avg.; 45% mature, 29% 1990, 46% avg.; 11% harvest, 12% 1990, 18% avg.; 65% silage harvest, 52% 1990, 47% avg.; 13% poor, 68% fair, 17% good, 2% excellent. Soybeans 82% blooming, 91% 1990, 84% avg.; 51% podding, 71% 1990, 62% avg.; 8% turning color, 12% 1990, 10% avg.; 7% very poor, 13% poor, 60% fair, 16% good, 4% excellent. Sweet potatoes 25% harvest, 13% 1990, 13% avg. Watermelons 95% harvested, 93% 1990, 91% avg. Hay 83% harvested, 77% 1990, 75% avg. Pecans 16% very poor, 43% poor, 19% fair, 22% good. Livestock 5% poor, 18% fair, 56% good, 21% excellent. Pasture 83% of normal.

MISSOURI: Temperatures 2 to 5° below normal south, near normal elsewhere. Rainfall 0.17 in.; less than 0.25 all areas but southwest 0.61 in.

Days suitable for fieldwork 6.7. Topsoil 87% short, 13% adequate. Subsoil 76% short, 24% adequate. Rain urgently needed for late crops. Corn dent stage ranges 67% north central, northeast to virtually complete southwest, southeast districts. Corn harvested 7%, 0% 1990, 3% avg. Soybeans blooming 91%, 85% 1990, 95% avg. Soybean podding ranges less than 60% southern districts to 80% or more central, northern districts. Soybeans turning color 5%, 1% 1990, 9% avg. Sorghum heading ranges 78% southwest to 96% north central, central. Sorghum coloring most advanced west central, southeast at 58%. Alfalfa hay third cutting 83%, 71% 1990, 85% avg.

Pasture 44% very poor, 28% poor, 21% fair, 7% good.

MONTANA: Temperatures 4 to 10° above normal. Precipitation spotty from scattered thunderstorms; little to none most areas.

Days suitable fieldwork 6.8. Topsoil 71% short, 29% adequate. Subsoil 51% short, 48% adequate, 1% surplus. Winter wheat harvested 72%, 96% 1990, 90% avg.; Spring wheat 1% very poor, 5% poor, 22% fair, 48% good, 24% excellent. Barley harvested 45%, 68% 1990, 62% avg.; 1% very poor, 3% poor, 22% fair, 50% good, 24% excellent. Oats harvested 47%, 68% 1990, 60% avg.; 1% very poor, 5% poor, 20% fair, 58% good, 16% excellent. Sugarbeets 2% very poor, 6% poor, 19% fair, 51% good, 22% excellent. Second cutting alfalfa harvested 63%, 71% 1990, 74% avg. Other hay harvested 95%, 93% 1990, 95% avg. Pasture, range feed 90% of normal.

NEBRASKA: Temperatures 4 to 7° above normals. Precipitation mid week none in the northern half to 0.74 in. central portion.

Days suitable for fieldwork 6.7. Topsoil 91% short, 9% adequate. Subsoil 78% short, 22% adequate. Corn 2% very poor, 10% poor, 20% fair, 60% good, 8% excellent; 97% dough, 81% 1990, 90% avg.; 61% dent, 23% 1990, 45% avg.; 4% mature, 0% 1990, 3% avg. Sorghum 6% very poor, 32% poor, 31% fair, 30% good, 1% excellent; 92% headed, 89% 1990, 95% avg.; 47% coloring, 14% 1990, 36% avg.; 3% mature 0% 1990, 1% avg. Soybeans 1% very poor, 12% poor, 51% fair, 33% good, 3% excellent; 97% setting pods, 87% 1990, 95% avg.; 10% turning, 4% 1990, 8% avg. Alfalfa 4% very poor, 30% poor, 36% fair, 29% good, 1% excellent; 73% third cutting, 71% 1990, 64% avg. Pasture, range 70% of normal.

NEVADA: Temperatures above normal. Extremes 40°; 112°. Precipitation none to 0.12.

Scattered thunderstorms occurred across northeast areas, causing some minor flash flooding. Harvesting activities benefitted from dry conditions.

NEW ENGLAND: Precipitation 3.00 to 5.45 in. New Hampshire, Maine, up to 9.75 in. Portland, Maine; Vermont 0.65 to 3.45 in.; Connecticut, Massachusetts 4.10 to 7.45 in., with as little as 1.40 in. East Wareham, Massachusetts; Rhode Island 2.40 to 3.10 in. Temperatures high 50s to mid 60s north; mid 60s to low 70s south; 1 to 4° below normal. Maximum temperatures mid 70s to low 90s; minimum temperatures low 40s to low 60s.

Days suitable for fieldwork 3.8. Soil moisture 3% short, 74% adequate, 23% surplus. Grazing availability 4% very short, 32% short, 64% adequate. Fieldwork 3.9 days ahead of schedule. Maine potatoes fair to good. Rhode Island potatoes 30% harvested, 35% 1990, 27% avg.; fair. Connecticut Valley potatoes 20% harvested, 9% 1990, 12% avg.; fair to good. Maine oats fair to good. Field corn fair; extensive damage from hurricane along coast. Sweet corn 66% harvested, 62% 1990, 62% avg.; fair; much remaining acreage blown down. Second cut hay 77% complete, 67% 1990, 71% avg.; fair. Third cut hay 28% complete, 35% 1990, 31% avg.; fair. Connecticut Valley shade, outdoor tobacco harvest 97% complete; fair; some storm damage to remaining crop. Excessive fruit drop in southern, eastern areas hit by hurricane. Apples 17% harvested; poor to fair; size small to medium. Peaches 67% harvested, poor to fair. Pears 28% harvested, poor to fair. Cranberries

good; water damage to coastal bogs, otherwise, no hurricane damage. Blueberry harvest 93% complete, size medium, good. Raspberry harvest 92% complete, size medium, good. Vegetable crops hit hard by storm, flooding, some salt damage in coastal areas. Activities: Cleaning up, assessing damage from Hurricane Bob, cutting hay, controlling weeds, insects, picking blueberries, apples, peaches, harvesting vegetables, potatoes.

NEW JERSEY: Temperatures above normal. Extremes 50°; 90°. Rainfall 1.54 in. north, 2.28 in. central, 0.93 in. south. Heaviest 24 hour total 2.55 in. on 19th, 20th. Estimated soil moisture percent field capacity, averaged 78% north, 88% central, 85% south. Four inch soil temperature 72° north, 75° central, 76° south.

Soil moisture about adequate most areas. Late season crop good. Summer vegetable harvest continued to decline. Fall vegetable growth good. Irish potato growth good. Late season peach harvest active. Fall variety apple prospects good. Grape harvest active. Late season raspberry picking continued. Third cutting hay well advanced; some fourth cutting made. Pasture growth good most areas.

NEW MEXICO: Temperatures within a few degrees of normal statewide. Extremes 39°; 99°. Greatest precipitation fell in the northeast plains, north central mountains, south central mountains.

Days suitable for fieldwork 5.8. Soil moisture 15% short, 77% adequate, 8% surplus. Crop conditions: Alfalfa 4% very poor, 4% poor, 40% fair, 48% good, 4% excellent. Widespread rain damage to hay. Corn 93% good, 7% excellent. Silage harvest active. Wheat planting active. Chile 7% poor, 29% fair, 64% good. Harvest progressing with delays due to rain. Onions 43% fair, 57% good. Pecans 25% fair, 75% good. Apples poor to good, with some harvest started. Cattle 13% fair, 79% good, 8% excellent. Sheep 18% fair, 73% good, 9% excellent. Range 86% of normal, low of 60%, high of 125%.

NEW YORK: Much needed rainfall received. Amounts near or above normal. Hurricane Bob produced amounts over 8.00 in. on Long Island. Temperatures above normal. Extremes 36°; 91°.

Days suitable for fieldwork 5.1. Soil moisture short to adequate. Pasture 46% of normal. Corn maturity ahead of schedule. Pasture 46% of normal. Corn maturity ahead of schedule. Harvesting grain, silage underway. Oats 94% harvested, 67% 1990, 74% avg. Alfalfa second cutting 95% finished. Hurricane Bob caused damage to crops on Long Island. Heavy rainfall resulted in widespread flooding in that area. Grape harvest underway in Lakes region. Quality good. Fruit on Long Island damaged from high winds, rainfall from hurricane. Trees toppled, vineyards damaged. Early apples continued to be harvested statewide. In some areas, harvest was running up to two weeks ahead of usual. Vegetable harvest remained at peak. Early onions being harvested. Hurricane caused damage on Long Island to vegetable crops. Standing water damage many potato fields. Sweet corn blown down by high winds.

NORTH CAROLINA: Temperatures normal to 3° below. Precipitation none to 7.52 in.

Days suitable for fieldwork 5.2. Soil moisture 7% short, 69% adequate, 24% surplus. Crop condition: Tobacco 2% poor, 25% fair, 70% good, 3% excellent; corn 1% poor, 28% fair, 70% good, 1% excellent; cotton 23% fair, 74% good, 3% excellent; peanuts 26% fair, 74% good; soybeans 18% fair, 75% good, 7% excellent; hay 1% poor, 9%

fair, 85% good, 5% excellent; Sweet potatoes 23% fair, 77% good; Apples 4% poor, 11% fair, 85% good; sorghum 26% fair, 72% good 2% excellent; Pasture 4% poor, 13% fair, 76% good, 7% excellent. Harvested: Flue cured tobacco 58%; Corn silage 54%; Corn for Grain 8%; Apples 8%; Hay second cutting 78%, third cutting 38%. Cotton opening bolls 14%. Corn dent 87%; mature 70%; soybeans blooming 84%; setting pods 64%.

NORTH DAKOTA: Temperatures 2° above normal east central, southeast to 6° above normal northwest, southwest. Extremes 43° northeast; 99° south central. Precipitation 0.08 in. northwest to 0.55 in. central.

Days suitable for fieldwork 6.5. Topsoil 33% very short, 50% short, 17% adequate. Subsoil 40% very short, 38% short, 22% adequate. Spring wheat 88% combined, 75% 1990, 77% avg.; durum 69% combined, 55% 1990, 63% avg.; oats 92% combined, 86% 1990, 84% avg.; barley 97% combined, 94% 1990, 90% avg. Corn for grain 3% poor, 27% fair, 52% good, 18% excellent; 47% denting or beyond, 23% 1990, 39% avg. Corn for silage 18% poor, 22% fair, 54% good, 6% excellent; 8% cut, 4% 1990, 7% avg. Sunflower 3% poor, 19% fair, 67% good, 11% excellent; 15% bracts turned yellow or beyond, 16% 1990, 18% avg. Flax 2% poor, 17% fair, 68% good, 13% excellent; 15% combined, 6% 1990, 12% avg. Potatoes 97% good, 3% excellent; 28% vines killed or beyond, 6% 1990, 25% avg. Soybeans 1% poor, 23% fair, 63% good, 13% excellent; 11% mature or beyond, 4% 1990, 9% avg. Dry edible beans 3% poor, 8% fair, 74% good, 15% excellent; 17% combined, 5% 1990, 2 avg. Sugarbeets 100% good. Pasture conditions 79% of normal. Alfalfa hay second cutting 85% complete, other hay first cutting 96% complete. Stockwater supplies 8% very short, 61% short, 31% adequate.

OHIO: Temperatures 1° below normal to 2° above normal with higher temperatures to the south. High temperatures surpassed 90° later parts of week. Rainfall earlier part of week 0.50 to 0.90 in. across the State. Areas along Lake Erie received in excess of 5.00 in. on 20th.

Days suitable for fieldwork 5.0. Soil moisture 62% short, 36% adequate, 2% surplus. Pastures 36% very poor, 35% poor, 21% fair, 8% good. Tomato harvest 43%, 11% 1990, 22% avg. Potato harvest 29%, 18% 1990, 23% avg. Summer apple harvest 80%, 71% 1990, 72% avg. Third cut alfalfa 66%, 40% 1990, 46% avg. Third cut other hay 42%, 14% 1990, 21% avg. Corn for silage 21%, 3% 1990, 9% avg.

OKLAHOMA: Temperatures 3° below normal southwest to 1° above normal northeast. Precipitation 0.11 in. Panhandle to 0.92 in. central.

Days suitable for fieldwork 6.2. Topsoil 82% short, 18% adequate. Subsoil 77% short, 23% adequate. Wheat 71% seedbed prepared, 47% 1990, 57% avg.; 1% planted, 1% 1990, 1% avg. Cotton 99% squaring, 100% 1990, 98% avg.; 97% setting bolls, 97% 1990, 90% avg.; 1% open bolls, 1% 1990, 6% avg. Cotton fair to good. Sorghum 75% headed, 69% 1990, 86% avg.; 32% milk to soft dough, 23% 1990, 53% avg.; 6% mature, 1% 1990, 6% avg. Sorghum good. Soybeans 78% flowering, 74% 1990, 85% avg.; 48% setting pods, 40% 1990, 63% avg.; 3% mature, 0% 1990, 3% avg. Peanuts 92% pegging, 99% 1990, 99% avg.; 85% setting pods, 83% 1990, 85% avg.; 5% mature, 4% 1990, 3% avg. Corn 81% mature, 35% 1990, 49% avg.; 17% harvested, 9% 1990, 12% avg. Pasture 82%. Cattle good; marketings average, prices higher.

OREGON: Temperatures normal, coast; warm daytime, remainder of State. Readings 5° above normal, Willamette Valley.; 9° above normal, Medford; most eastern areas 6 to 8° above normal; Madras 11° above. Most inland precipitation from thunderstorms; coast, drizzle. Thunderstorm accumulation mainly 0.10 to 0.20 in.; 0.50 in., Marion Forks.

Soil moisture 61% short, 39% adequate. Winter wheat, barley harvest continued. Second cutting alfalfa hay near completion, most areas. Mint harvest in full swing. Hop, sugarbeet harvesting begun, Marion county. Bartlett pear harvest underway, Hood River Valley, Medford. Gravenstein apples picked, Evergreen blackberries harvested, Willamette Valley. Blueberry picking continued. Fall Red raspberries available for fresh market. Hazelnut orchards being prepared for harvest; trees look good, unpollinized nuts falling. Cranberry fruit good to excellent; red color beginning to show. Sweet corn, broccoli, snap beans, cucumber harvest continued. Onion, potato harvest started, Malheur County; potato harvest continued, Morrow, Umatilla County; potato quality good. Livestock good to excellent; movement of yearling cattle to feed lots, Klamath County. Small range fires, Harney County. Dry conditions, high fire danger, Wallowa County. Statewide range, pasture 13% poor, 33% fair, 42% good, 17% excellent.

PENNSYLVANIA: Above normal precipitation, normal temperatures.

Temperature 70°, at normal. Extremes 45°; 92°. Precipitation 1.51 in., 0.67 in. above normal.

Days suitable for fieldwork 4. Soil moisture 71% short, 26% adequate, 3% surplus. Corn 96% silk, 91% 1990, 93% avg; 72% dough, 42% 1990, 57% avg; 28% dent, 8% 1990, 16% avg.; 5% mature, 1% 1990, 1% avg. Ensilage corn harvested 10% complete, 1% 1990. Corn 21% very poor, 28% poor, 29% fair, 17% good, 5% excellent. Soybean 14% very poor, 25% poor, 31% fair, 24% good, 6% excellent. Wheat planted 3% complete, 1% 1990. Oats harvest 98% complete, 90% 1990. Barley planted 5% complete, 3% 1990. Tobacco harvest 24% complete, 14% 1990. Potato harvest 27% complete, 23% 1990. Second cutting alfalfa 95% complete, 86% 1990. Third cutting alfalfa 55% complete, 39% 1990. Fourth cutting alfalfa 9% complete, 5% 1990. Second cutting clover timothy 77% complete, 66% 1990. Feed from pastures 57% very poor, 26% poor, 15% fair, 2% good. Quality of hay made mostly fair. Apple harvest 25% complete, 16% 1990. Peach harvest 71% complete, 53% 1990. Grapes harvest 20% complete, 5% 1990. Fall plowing 16% complete, 15% 1990.

PUERTO RICO: Rainfall 2.41 in. was 0.61 in. at San Sebastian, 7.04 in. at arecibo Ionospheric Observatory, 5.98 in. at Dos bocas. Highest 24 hour total 2.56 in. at Morovis. Divisional temperatures 80 to 82° on the Coast, 74 to 78° in the Interior with mean station temperature 66.4° at Pico Del Este Luquillo to 83.4° at WSFO San Juan. Extremes 58°; 96°.

SOUTH CAROLINA: Temperatures 1° above normal along coast; 1° below normal in midlands; 3° below normal in Upstate. Rainfall none north central to 0.90 in. south.

Days suitable for fieldwork 5.4. Soil moisture 7% short, 83% adequate, 10% surplus. Cotton; 74% fair, 26% good; 14% open bolls, 17% 1990, 14% avg. Watermelons fair; 95% harvested, 94% 1990, 94% avg. Cantaloupes fair to good; 89% harvested, 92% 1990, 92% avg. Peaches fair to good; 96% harvested, 95% 1990, 95% avg. Apples good; 25% harvested, 23% 1990, 15% avg. Snap beans fair to

good; 61% harvested. Sorghum fair to good; 22% harvested, 23% 1990, 17% avg. Soybeans 16% fair, 78% good, 6% excellent; 88% blooming, 84% 1990, 82% avg.; 50% setting pods, 46% 1990, 48% avg.; 3% leaves turning, 2% 1990, 2% avg. Tobacco fair to good; 83% harvested, 72% 1990, 73% avg.; 17% stalks destroyed, 8% 1990, 7% avg. Corn fair to good; 95% matured, 94% 1990, 84% avg.; 27% harvested, 48% 1990, 27% avg. Fall hay fair to good; 45% harvested, 31% 1990, 43% avg. Peanuts fair to good; 2% harvested; 3% 1990, 2% avg. Sweet potatoes fair to good; 27% harvested; 7% 1990, 6% avg. Pastures fair to good.

SOUTH DAKOTA: Generally warmer than normal. Temperatures about 10° above normal in the northwest, 5° above normal northeast. Extreme 108°. Rainfall scanty, maximum 0.75 in. One day total 5.80 in. Ridgeview.

Days suitable for fieldwork 5.9. Topsoil 21% critical, 44% short, 31% adequate, 4% surplus. Subsoil 21% critical, 41% short, 34% adequate, 4% surplus. Flax 3% poor, 18% fair, 64% good, 15% excellent. Sunflowers 15% fair, 70% good, 15% excellent. Livestock 3% fair, 77% good, 20% excellent. Pasture 88% of normal.

TENNESSEE: Cold fronts moved through State 19th, producing rainfall east. Easterly wave 24th, 25th produced rain statewide. Temperatures below normal.

Days suitable for fieldwork 5.9. Soil moisture 17% very short, 44% short, 39% adequate. Corn 82% dough, 78% 1990, 92% avg.; 62% dent, 54% 1990, 75% avg.; 20% mature, 14% 1990, 30% avg.; 2% very poor, 12% poor, 47% fair, 36% good, 3% excellent. Cotton 10% open bolls, 7% 1990, 12% avg.; 5% very poor, 10% poor, 53% fair, 27% good, 5% excellent. Sorghum 84% headed, 90% 1990, 96% avg.; 38% turning color, 44% 1990, 76% avg.; 12% mature, 58% 1990, 37% avg.; 1% very poor, 7% poor, 62% fair, 29% good, 1% excellent. Soybeans 84% blooming, 81% 1990, 85% avg.; 48% setting pods, 56% 1990, 65% avg.; 1% very poor, 15% poor, 52% fair, 28% good, 4% excellent. Tobacco 84% topped, 83% 1990, 83% avg.; burley 40% harvested, 24% 1990, 29% avg., dark fired 30% harvested, 26% 1990, 30% avg.; dark air cured 28% harvested, 32% 1990, 30% avg.; 2% poor, 27% fair, 68% good, 3% excellent. Pastures 2% very poor, 15% poor, 37% fair, 40% good, 6% excellent. Cattle 2% poor, 17% fair, 75% good, 6% excellent.

TEXAS: Northwest flow allowed weak cool fronts, upper disturbances move over State. Entire State drier, cooler than normal. Temperatures below normal all areas except Lower Valley. This coolness most pronounced over Northern half of State where significant effects of front felt. Temperatures 6° below normal in Low Plains to normal in Lower Valley. Rainfall below normal all areas of State. Degree of dryness may be greater than numbers show due spotty nature of rainfall. Many districts heavy rainfall from one - two stations while rest of stations district remained dry. Most significant rain day appeared 22nd, stronger upper disturbance combined with surface front produce good rains over eastern half of State.

Crops: Corn harvest active East Texas, Plains. Cooler weather, scattered showers slowed progress some areas. Silage cutting continued High Plains. Harvest expected resume, conditions allow. Yields ranged good, excellent. Corn 57% mature, 75% 1990, 69% avg.; 50% harvest, 61% 1990, 60% avg. Sorghum harvest Central Texas virtually complete except late

fields. High Plains, dryland fields good where moisture received. Also, low infestation of greenbugs occurred. Sorghum 70% mature, 73% 1990, 62% avg.; 67% harvest, 52% 1990, 52% avg. Cotton fields good condition, however aphids, bollworms continue plague some areas. Fields Low Plains began shed fruit. Many fields need warmer temperatures promote development. Cotton 14% harvest, 12% 1990, 10% avg. Planting preparations small grain began most areas. Rain delayed field work across parts of State, provided needed moisture. Rice harvest along Upper Coast experienced minor delays last week. Soybean harvest continued excellent progress. Stinkbug damage higher later harvested fields Upper Coast. State peanut condition good growth, development. Some fields experiencing leaf spot, southern blight most areas. Minor disease problems Central Texas. Statewide peanut condition 88% of normal. Peanut 3% poor, 11% fair, 68% good, 18% excellent.

Commercial Vegetables: Rio Grande Valley, whitefly problems affecting young cabbage. Some carrots planted. East Texas, recent rain should increase sweet potato production. Limited fall garden planting. High Plains, beneficial moisture helped make excellent onion, potato crop. Harvest watermelon, cucumbers continued. Trans Pecos, harvest operations watermelon continued. Armyworms caused light damage peppers. Pecan trees hampered by aphids, casebears most areas. Some shedding occurred along with premature defoliation Upper Coast.

Range and Livestock: Range, pastures above average forage production. Forage growth provided good grazing. Livestock good shape however potential health threat livestock identified, South Texas. Range, pasture 1% very poor, 5% poor, 26% fair, 48% good, 20% excellent.

UTAH: Temperatures about 4° above normal. Scattered, light showers.

Days suitable for fieldwork 6.4. Soil moisture 83% short, 17% adequate. Winter wheat harvest nearing completion. Spring wheat 90% harvested, 96% 1990, 90% avg. Barley 90% harvested, 95% 1990, 92% avg. Oats 77% ripe; 40% harvested for grain, 80% 1990, 72% avg.; 84% harvested for hay or silage. Corn 24% in dough, 25% 1990, 38% avg. Alfalfa third cutting 23% completed, 25% 1990, 27% avg. Pasture, range mostly good to excellent. Irrigation water supply 2% very short, 58% short, 40% adequate. Stockwater 62% short, 38% adequate. Hay, roughage 13% short, 66% adequate, 21% surplus. Tart cherry harvest complete. Apricot harvest 95% complete. Peach harvest 5% complete.

VIRGINIA: Temperatures slightly above normal over the eastern half of State, near normal over the western half. Extremes 46°; 95°. Precipitation was near normal in southeastern areas, normal elsewhere.

Days suitable for fieldwork 5.1. Topsoil 5% very short, 22% short, 59% adequate, 14% surplus. Corn dough stage 81%, 68% 1990, 68% avg.; dented 60%, 48% 1990, 48% avg.; mature 41%, 26% 1990, 31% avg.; silage harvested 15%, 13% 1990, 10% avg.; for grain harvested 4%, 2% avg.; 9% very poor, 13% poor, 40% fair, 32% good, 6% excellent. Soybeans bloomed 84%, 80% 1990, 75% avg.; setting pods 60%, 60% 1990, 54% avg.; 11% poor, 45% fair, 39% good, 5% excellent. Flue tobacco harvested 43%, 40% 1990, 27% avg. Fire tobacco harvested 40%, 42% 1990, 28% avg. Burley tobacco harvested 20%, 6% 1990, 6% avg. Sun tobacco 35% harvested, 20% 1990, 15% avg. All tobacco 16% fair, 84% good. Peanut 14% poor, 14% fair, 72% good. Alfalfa 4% very poor, 8% poor, 28% fair, 52% good, 8%

excellent. Other hay 7% very poor, 14% poor, 21% fair, 54% good, 4% excellent. Pastures good.

WASHINGTON: Temperatures 7 to 12° above normal, east; 6° above normal to 1° below normal, west. Precipitation none east, west.

Days suitable for fieldwork 7.0. Soil moisture 66% short, 34% adequate. Irrigation water 1% very short, 99% short. Hay, other roughage 7% short, 77% adequate, 16% surplus. Range, pasture 5% very poor, 25% poor, 28% fair, 42% good. Winter wheat 1% very poor, 5% poor, 35% fair, 59% good; 75% harvested. Spring wheat 12% poor, 38% fair, 50% good; 59% harvested. Barley 1% poor, 23% fair, 71% good, 5% excellent; 54% harvested. Potatoes 100% good; 16% harvested. Dry beans 100% good. Corn 100% good. Dry peas 72% harvested. Alfalfa hay 2nd cutting 94%; 3rd cutting 48%. Grain harvest continues nearly two weeks behind normal. Yields were average to below average for wheat and average to excellent for barley. Dry pea, lentil harvests continue. Good yields were reported. Blueberry harvest was in full swing. Vegetable harvest continued statewide. Bartlett pear harvest started in Chelan County. Mountain ranges, pastures were holding up well.

WEST VIRGINIA: Temperature 70°. Extremes 47°; 92°. Precipitation avg. 0.52 in.

Days suitable for fieldwork 4.8. Soil moisture 11% very short, 42% short, 47% adequate. Corn, 60% poor, 18% fair, 22% good; 96% silked, 85% dough stage. Oats good; 98% headed, 91% harvested. Gardens, 17% poor, 44% fair, 39% good. Tobacco, good; 84% topped. Hay, 4% very poor, 31% poor, 35% fair, 30% good; 50% second cutting. Apples fair. Peaches fair. Pastures, 30% very poor, 15% poor, 35% fair, 20% good; 61% of normal. Cattle, good. Sheep, good.

WISCONSIN: Temperature 68°, 1° above normal. Extremes 37°; 98°. Precipitation trace to 0.30 in.

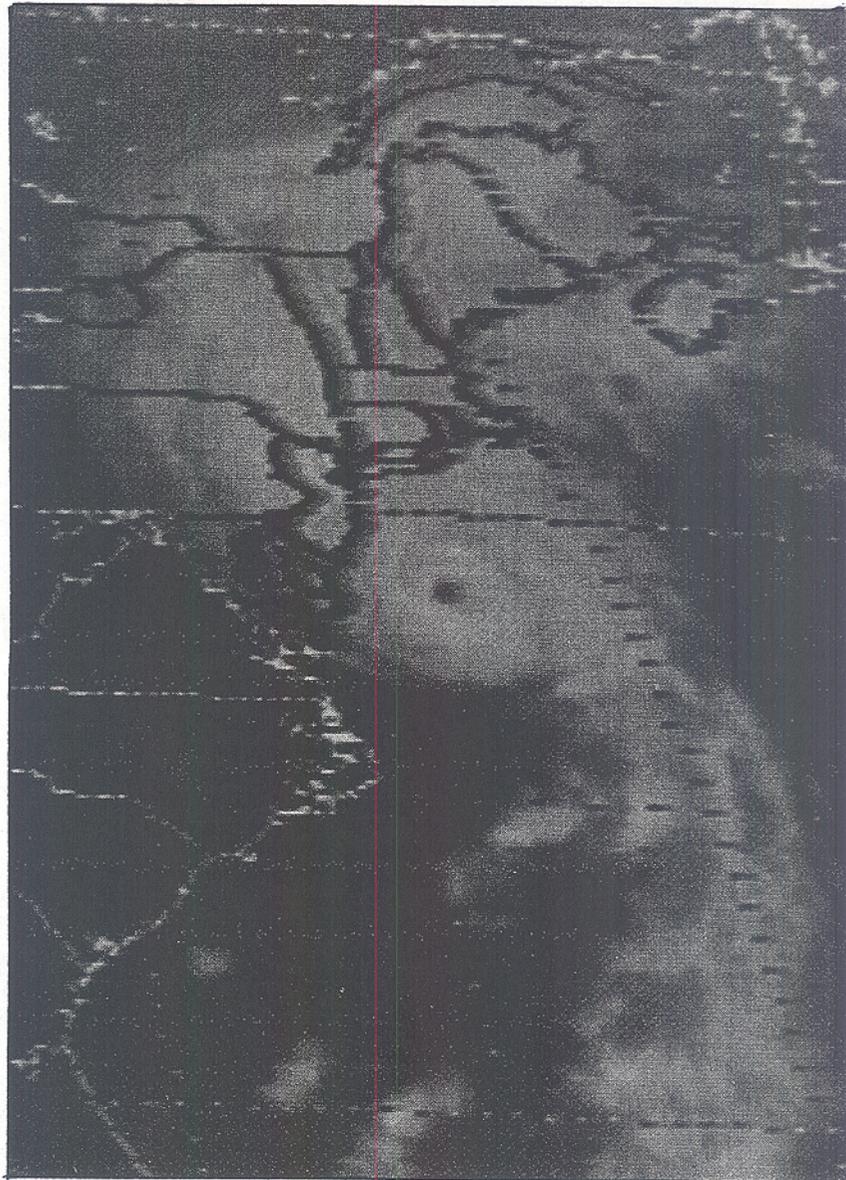
Days suitable for fieldwork 6.7. Soil moisture 30% short, 67% adequate, 3% surplus. Rain is needed in the southern districts to ensure proper maturing of corn, soybeans. Pasture 73% of normal, 84% 1990, 75% avg. General condition of crops 1% poor, 17% fair, 74% good, 8% excellent. Corn 1% very poor, 1% poor, 16% fair, 70% good, 12% excellent; in dough 69%, 37% 1990, 64% avg.; in dent 32%, 8% 1990, 27% avg.; mature 4%, 0% 1990, 3% avg. Soybean 8% fair, 74% good, 18% excellent. Third crop hay 35% harvested, 21% 1990, 27% avg. Oats harvested for grain 92% complete, 80% 1990, 88% avg. Soybean leaves 17% turned, 4% 1990, 7% 4 year avg.

WYOMING: Temperatures above normal. Precipitation above normal west, southeast, below normal elsewhere.

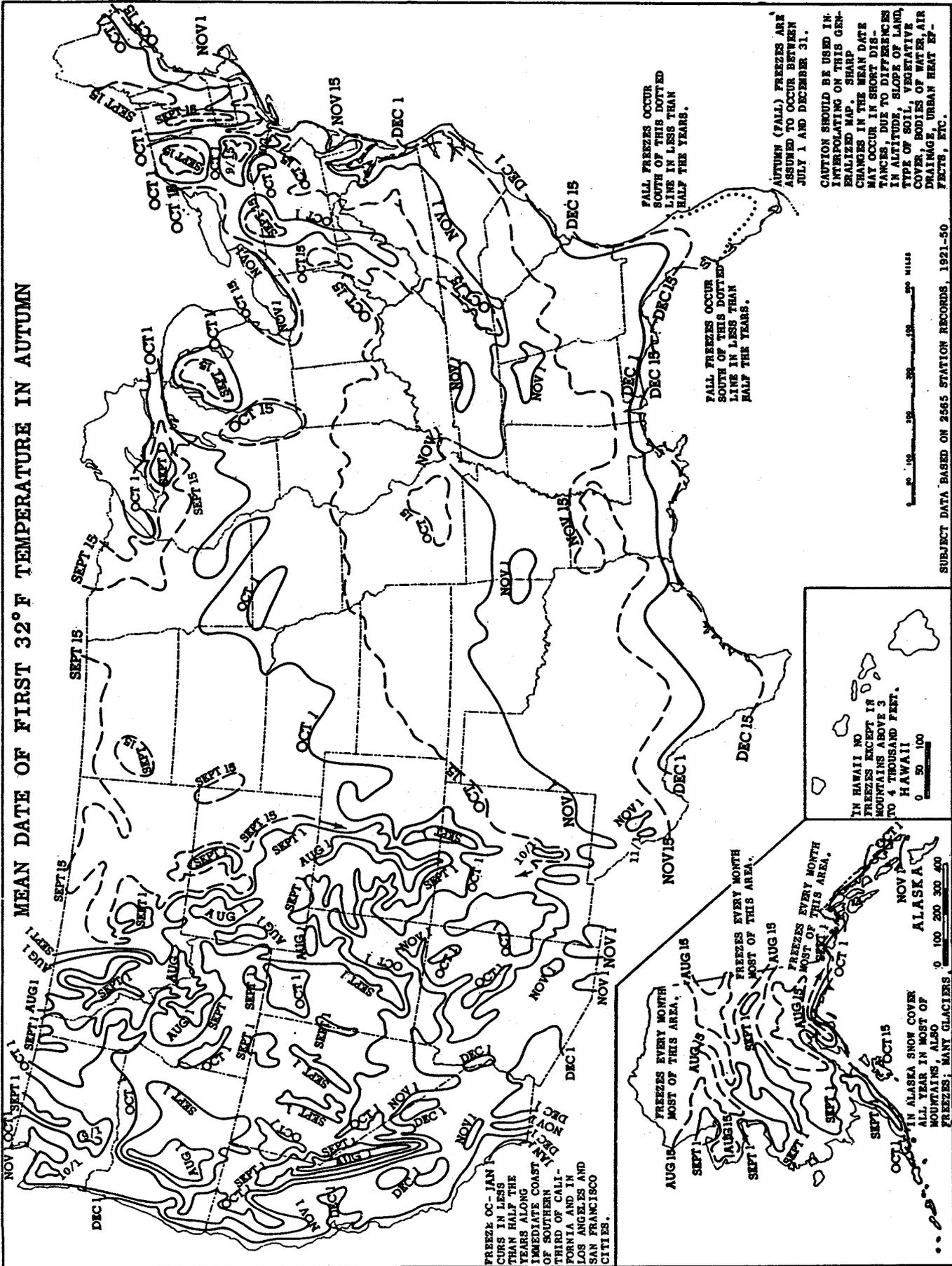
Days suitable for fieldwork 6.3. Topsoil 36% short, 64% adequate. Winter wheat 5% mature, 5% 1990, small amount avg.; 95% harvested, 95% 1990, most avg. Barley 25% mature, 25% 1990, 20% avg.; 75% harvested, 75% 1990, 75% avg. Spring wheat 30% mature, 30% 1990, 25% avg.; 70% harvested, 70% 1990, 75% avg. Oats 35% mature, 40% 1990, 30% avg.; 65% harvested, 60% 1990, 65% avg. Alfalfa second cutting 75% complete, 65% 1990, 75% avg. Other hay 85% harvested, 90% 1990, 90% avg. Dry beans 70% leaves turning color, 25% 1990, 45% avg.; small amount windrowed, small amount 1990. Corn 25% silked, 35% 1990; 60% milk, 30% 1990, 55% avg.; 15% dough, 30% 1990, 35% avg.; small amount dented, 5% 1990. 1992 winter wheat 10% seeded, 5% 1990. Fall grazing prospects mostly good to excellent. Ranges, pastures good to excellent. Stockwater supplies 20% short, 80% adequate.

Satellite View of Hurricane Bob August 19, 1991, 7 a.m. EDT

In last week's issue, the satellite image of Hurricane Bob was printed upside down and lacking in detail, so we are having it reprinted. The image should show Bob's eye due east of the Delaware-Maryland coast as the storm accelerates northward towards the eastern tip of Long Island.



MEAN DATE OF FIRST 32°F TEMPERATURE IN AUTUMN



SUBJECT DATA BASED ON 2665 STATION RECORDS, 1921-50

International Weather and Crop Summary

HIGHLIGHTS

August 18 - 24, 1991

USSR ... In the Western USSR, widespread, variable precipitation covers most of the region, slowing fieldwork. In the New Lands, cool, wet weather slows ripening in spring grains.

EUROPE ... Mostly light showers slow harvesting in the north. Dry, mild weather promotes crop development in the south.

EASTERN ASIA ... Tropical Storm Gladys causes flooding in southern South Korea. Dry weather aids rice harvesting in China's Yangtze Valley.

SOUTHEAST ASIA ... The remnants of Typhoon Fred bring widespread showers to Indochina, benefiting newly planted rice but causing local flooding.

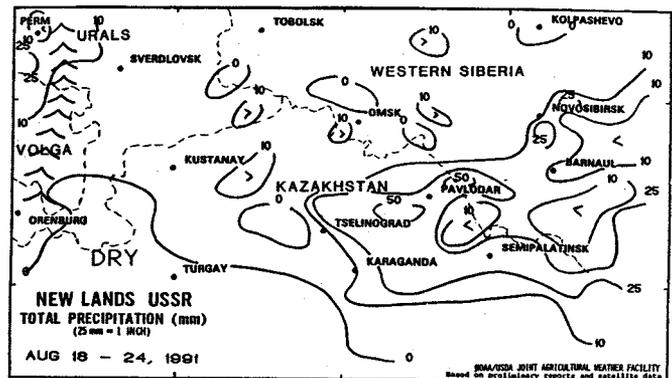
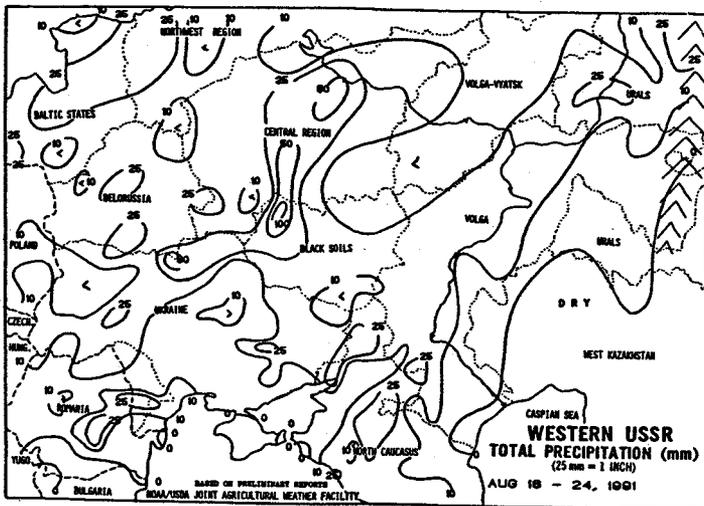
SOUTH ASIA ... Widespread showers benefit reproductive to filling grains and oilseeds but cause more local flooding.

SOUTH AMERICA ... Rains favor winter wheat in Argentina, but rain for upcoming corn planting in Brazil is needed.

AUSTRALIA ... Moisture remains favorable as rains fall throughout most winter grains areas.

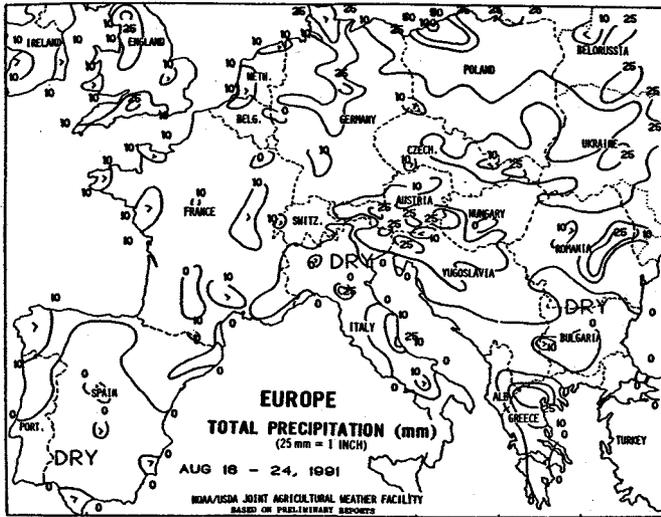
CANADA ... Showers benefit immature crops in the northwestern Prairies.

MEXICO ... Favorable moisture exists throughout the country, as seasonal rains continue.

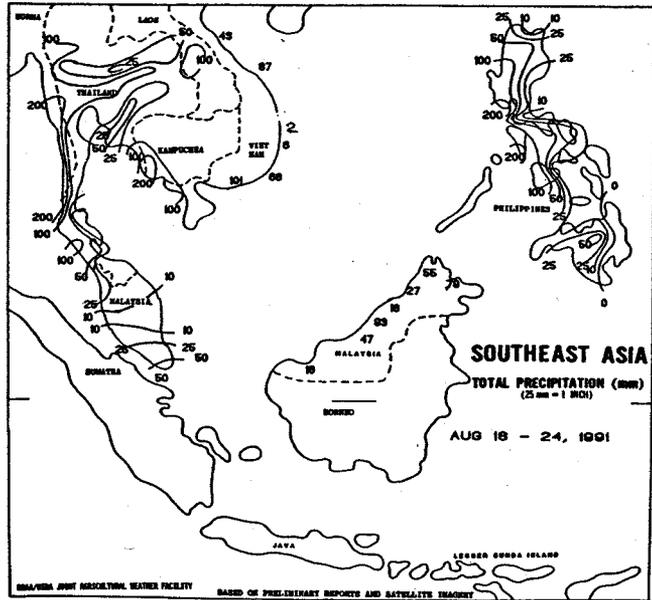


USSR ... In the Western USSR, unsettled weather conditions covered most of the region. While precipitation was widespread, amounts varied. Greatest amounts of rain (25 to 50mm, with local amounts in excess of 75mm) fell over parts of the Baltic States, Belorussia, the North Caucasus, and into a narrow band that stretched northeastward from the western Ukraine, through the western Black Soils Region, and into the Central Region. Precipitation amounts generally ranged from 10-25mm over the remainder of the region. Spring grains harvesting continued to progress, while planting of the 1992 winter grain crops was occurring in the Volga Vyatsk Region, Northwest Region, Central Region, and the Urals.

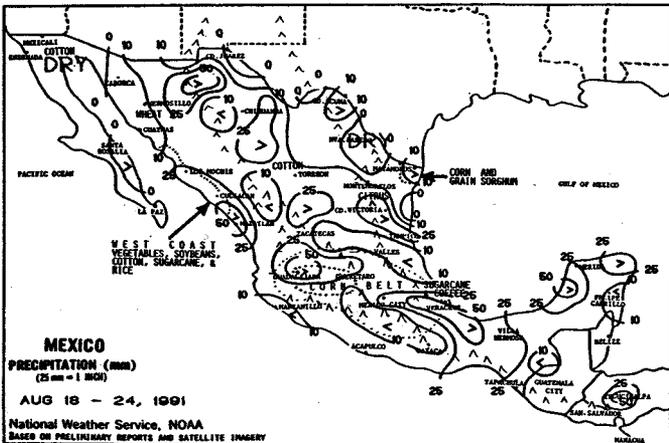
In the New Lands, because of delayed planting due to dryness, most of the spring grain crop was still ripening, with harvest expected to begin in late August. Unseasonably cool, wet weather covered most of Kazakhstan and Western Siberia, slowing grain maturation. While precipitation amounts were generally around 10mm, greater amounts of rain (15 to 50mm, with local amounts excess of 75mm) fell in a band that stretched eastward from Tselinograd and Karaganda through Pavlodar and Semipalatinsk, and to just north of Barnaul and Novosibirsk. Weekly average temperatures were near normal in the Urals and 2 to 4 degrees below normal in Kazakhstan and Western Siberia.



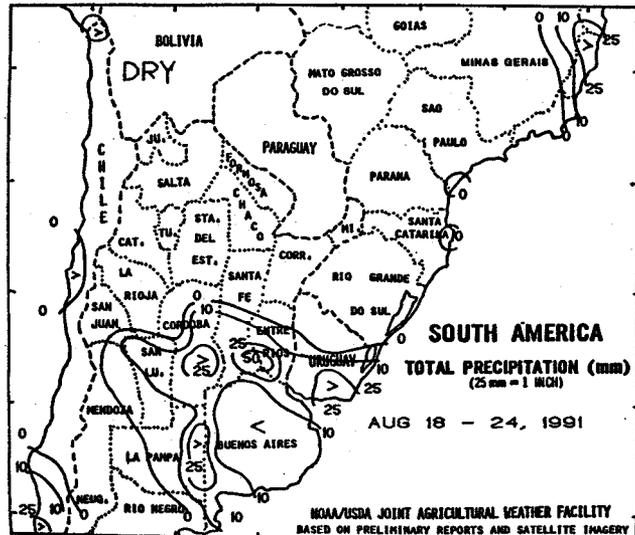
EUROPE ... Periodic showers covered northern and central Europe, while generally dry weather prevailed in the south from the Iberian peninsula across the Mediterranean region to the Balkans. The northern grain and oilseed harvests were hampered by mostly light rainfall, but several dry days allowed some harvest progress. The heaviest rainfall amounts of greater than 25mm were confined to the far north, and scattered locations in central and eastern Europe. Corn and other summer crops were progressing from late stages of development to maturity. Thus, the mostly dry weather (less than 5mm of weekly rainfall) across much of southern Europe favored summer crops. Weekly temperatures generally averaged above normal in the southwest, near normal in the north, and slightly below normal in the southeast.



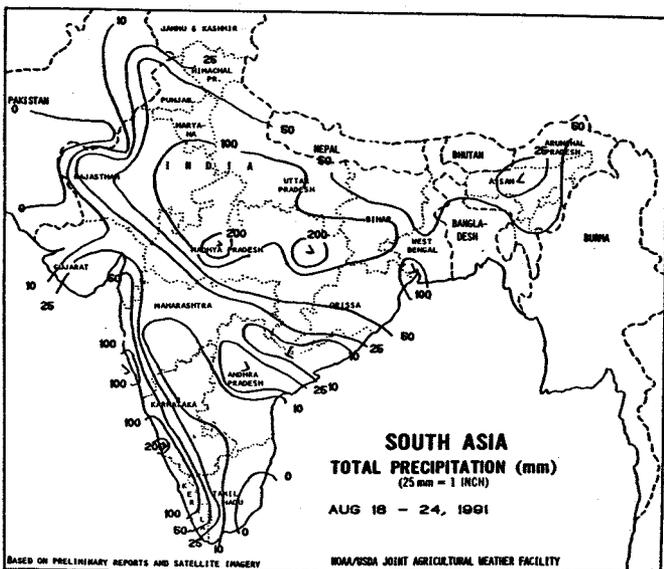
SOUTHEAST ASIA ... Moderate to heavy showers (50-100mm or more) covered most primary Thai rice and corn areas as the remnants of Typhoon Fred swept across Indochina. Local inundating rains (200-400mm) caused flooding across the region, including locations in peninsular Thailand. The rainfall was especially welcome in portions of northeastern Thailand where late rice transplanting was underway. In the Philippines, heavy showers (80-165mm) persisted along Luzon's western coast. Moderate to heavy showers (25-50mm or more) continued over most northern and west-central grain regions but dry weather dominated elsewhere.



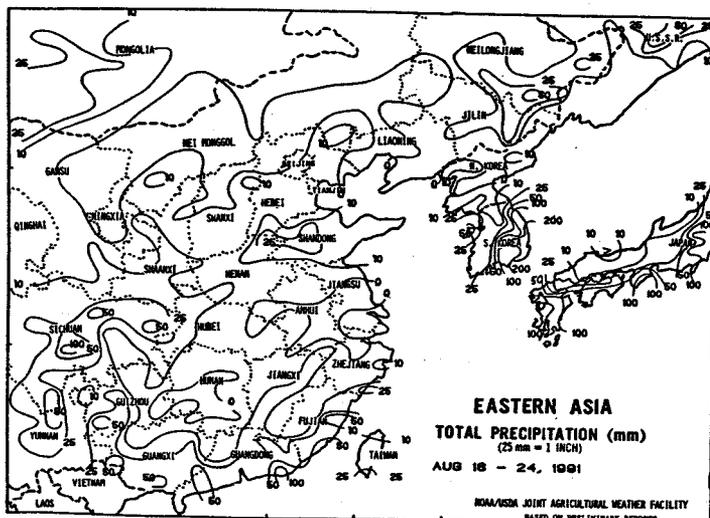
MEXICO ... Scattered showers (29-73mm) fell across the Southern Plateau Corn Belt, where some southern areas missed significant rains. Moderate rains fell in the West Coast crop areas aiding vegetables, soybeans, and cotton. Rains continued in the north-central rangeland, while the northeastern grain region received beneficial scattered showers (14-29mm).



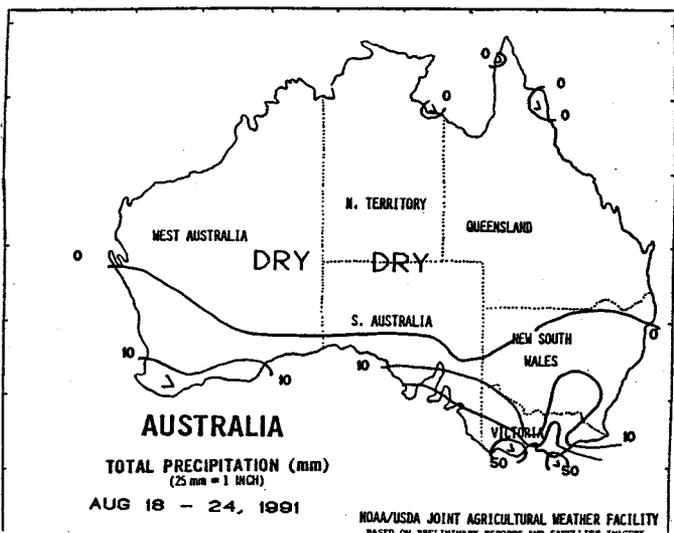
SOUTH AMERICA ... In Argentina, light to moderate rains fell across southern Santa Fe, Cordoba, and eastern La Pampa increasing soil moisture for emerging winter wheat. However, only light rains fell in Buenos Aires where topsoil moisture is needed. Temperatures averaged above normal again last week, ranging from 3 to 7 degrees C. In southern Brazil, rain is needed for topsoil moisture in Parana for upcoming corn planting.



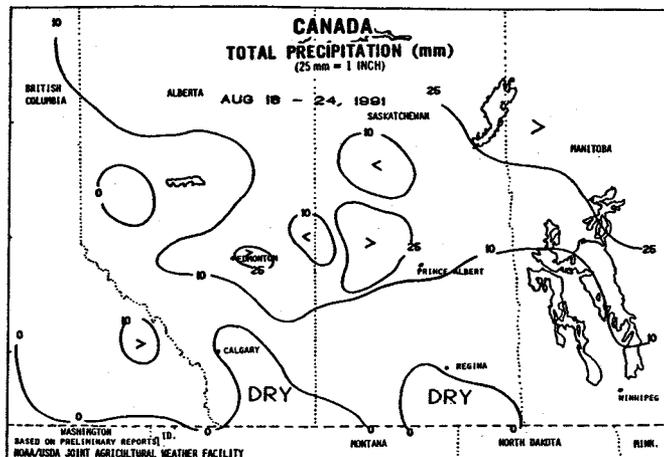
SOUTH ASIA ... Moderate to heavy showers (50-100mm or more) covered a large portion of central India from Rajasthan to West Bengal, increasing moisture reserves for grains, oilseeds, and cotton in or nearing reproduction but causing more flooding. However, only light rain (13-26mm) fell over primary rainfed groundnut and cotton regions of Gujarat that have been trending dry for about 3 weeks. Beneficial showers (25-125mm) returned to most northern Indian rice areas as well as local crop areas of Pakistan's Punjab state. Rainfall tapered off over Bangladesh and India's eastern states, with reports ranging from 2 to 65mm. In the south, light to moderate showers (5-36mm) benefited reproductive to filling summer crops in most areas from Maharashtra southward.



EASTERN ASIA ... Tropical Storm Gladys hit southeastern South Korea on August 23rd, with sustained winds of 40-50 knots (45-58 mph), and produced heavy rains (200-400mm) causing flooding and minor rice damage. Portions of southern Japan also received isolated heavy rains (118-275mm) from Gladys. Light to moderate rains (19-50mm) fell across northern Manchuria (Heilongjiang) which aided grain-filling corn and pod-filling soybeans, but delayed spring wheat harvest. Drier weather throughout the rest of Manchuria and northwestern grain areas (Gansu and Shaanxi) favored spring wheat harvesting. Light to moderate rains (12-38mm) slightly delayed early corn harvesting, but aided soybeans, in the North China Plain. Dry weather continued across the Yangtze Valley, favoring single-crop rice harvesting. Southern China benefited from light to moderate rains (15-42mm) with heavier amounts in coastal regions.



AUSTRALIA ... Light rains (2-7mm) fell in northern New South Wales, increasing soil moisture for winter grains. Queensland wheat areas remained dry. Light to moderate rains (10-25mm) fell in southern New South Wales, South Australia, and Victoria keeping moisture conditions favorable for winter grains. West Australia received 5-10mm, where moisture conditions have been favorable all season.



CANADA ... Light to moderate showers (10-48mm) benefited late-planted, immature grains and oilseeds in northern crop regions of Alberta and Saskatchewan. Scattered light rain (5mm or less) fell elsewhere. Temperatures averaged 2-5 degrees C above normal across the Prairies, benefiting crop maturation and drydown.

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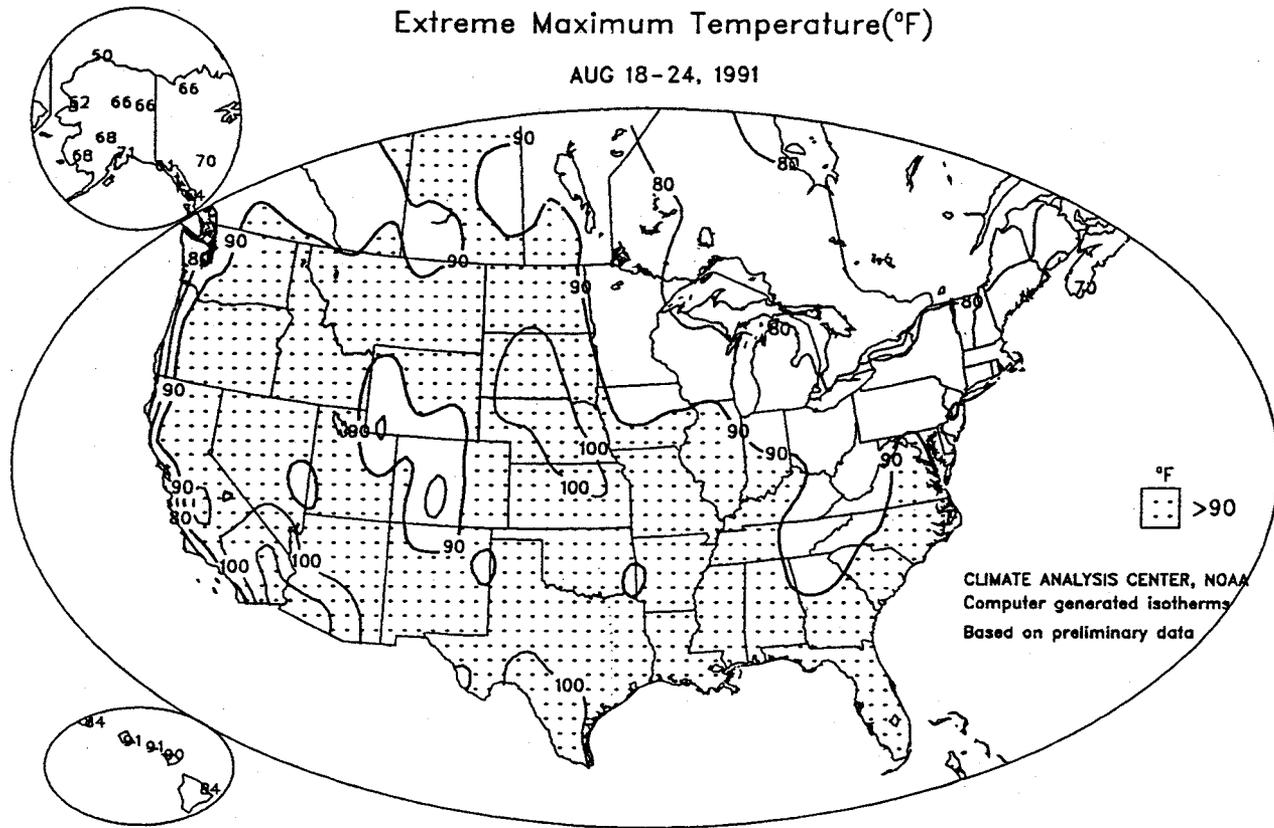
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Extreme Maximum Temperature(°F)

AUG 18-24, 1991



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