

# 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

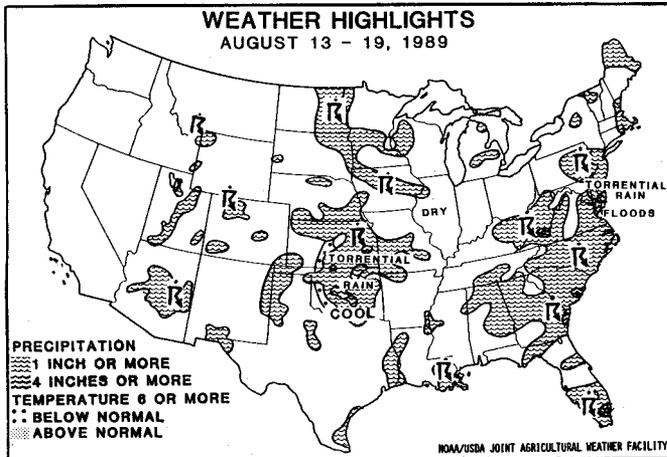
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## National Weather Summary

August 13-19, 1989



**HIGHLIGHTS:** Scattered showers and thunderstorms reached from the Intermountain Plateau to the eastern seaboard throughout the week. A cold front crossed the Great Lakes and Corn Belt early in the week before becoming stationary along the mid-Atlantic coast. Slow moving thunderstorms developed along the front and pounded southeastern Virginia into Delaware with torrents of rain. Severe thunderstorms also dumped heavy rain over Kansas at week's end. Parts of the Corn Belt remained dry, while cool air persisted over the central and southern Plains.

**SUNDAY:** Rain persisted across the Atlantic Coast States, with continuing heavy amounts soaking southern New England. Scattered thunderstorms remained over the Rockies, Plains, and Great Lakes. Drenching rain fell in central Oklahoma.

**MONDAY:** Showers and thunderstorms with locally heavy rain developed ahead of a cold front crossing the upper Great Lakes and western Corn Belt. Rain was again scattered across the eastern seaboard, Rockies, and central and southern Great Plains.

**TUESDAY:** Precipitation was widespread from the central Rockies and southern Intermountain Plateau to the Atlantic coast. Strong thunderstorms occurred along the cold front, curving from the lower Great Lakes across the middle Mississippi Valley, and into the central Plains.

**WEDNESDAY:** Scattered showers and thunderstorms again covered much of the southern half of the Nation and the Northeast. The front became stationary, reaching from the Ozarks to the mid-Atlantic coast.

**THURSDAY:** Abundant thunderstorms developed in the humid air over the Gulf and middle and southern Atlantic Coast States. Strong thunderstorms caused heavy rain in the Southeast and along the mid-Atlantic coast. Scattered showers and thunderstorms continued across the Rockies and desert Southwest.

**FRIDAY:** Rain covered the eastern seaboard, with slow moving thunderstorms along the stationary front deluging the Virginia to Delaware coast with torrential rain. Salisbury, MD, reported 14 inches where a number of nearby bridges were washed away. Thunderstorms with locally heavy rain extended across the Rockies, Plains, and along the Gulf coast.

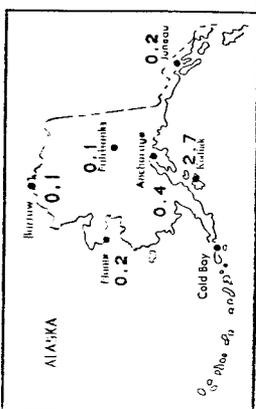
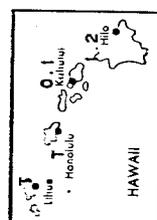
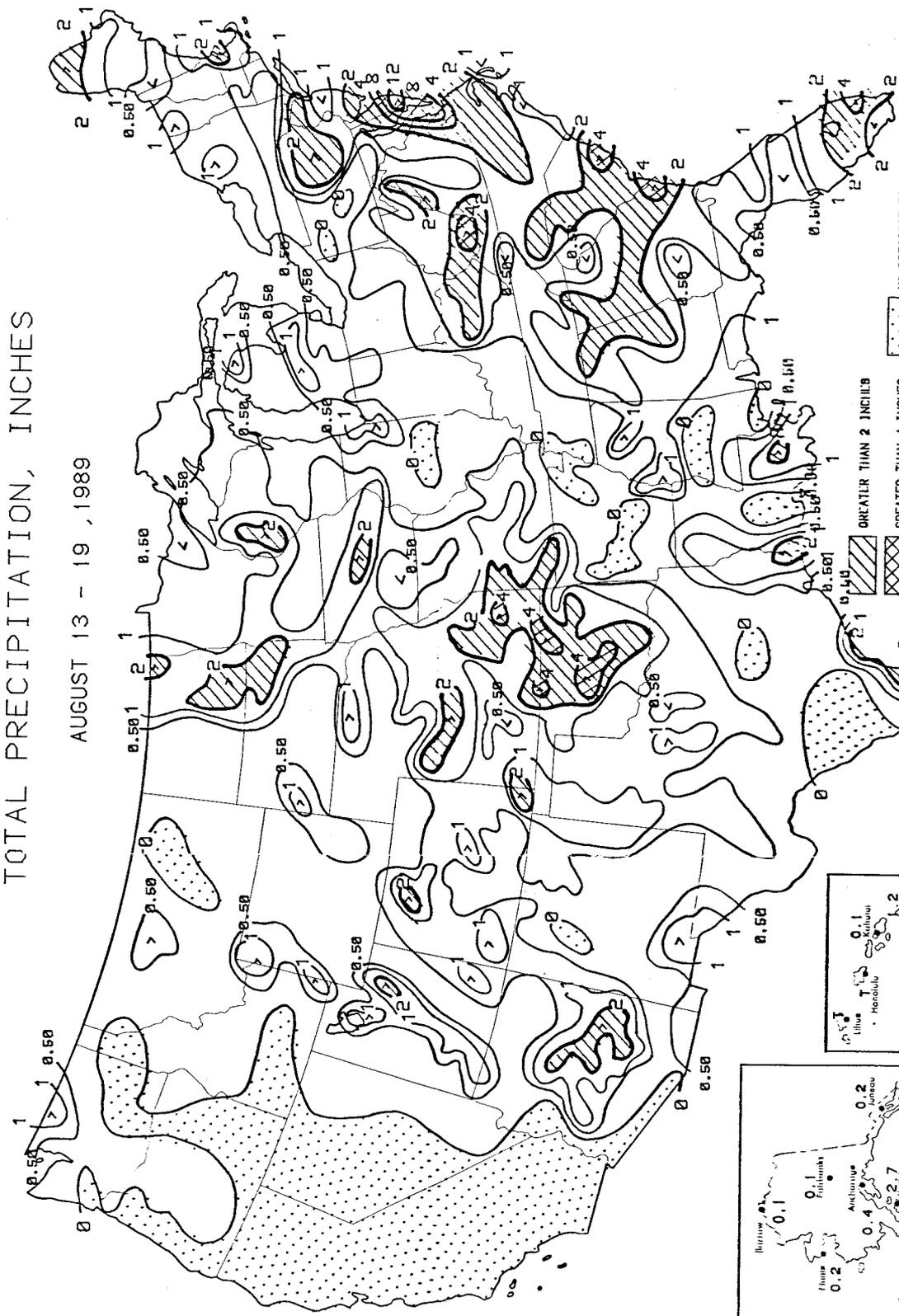
**SATURDAY:** Showers and thunderstorms continued across the Rockies, Plains, and Atlantic Coast States. Heavy rain drenched the central Plains, with 8 inches inundating Coffeyville, KN.

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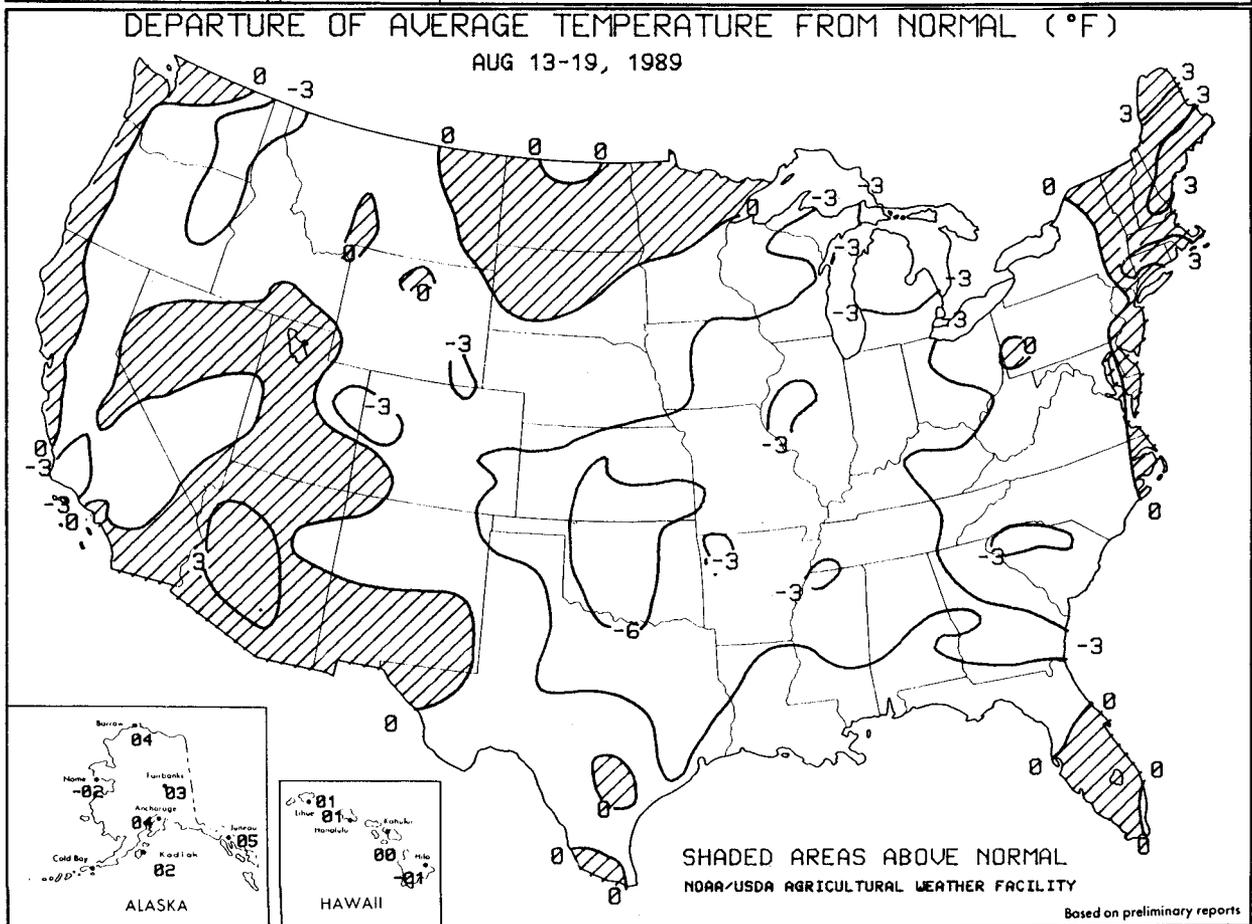
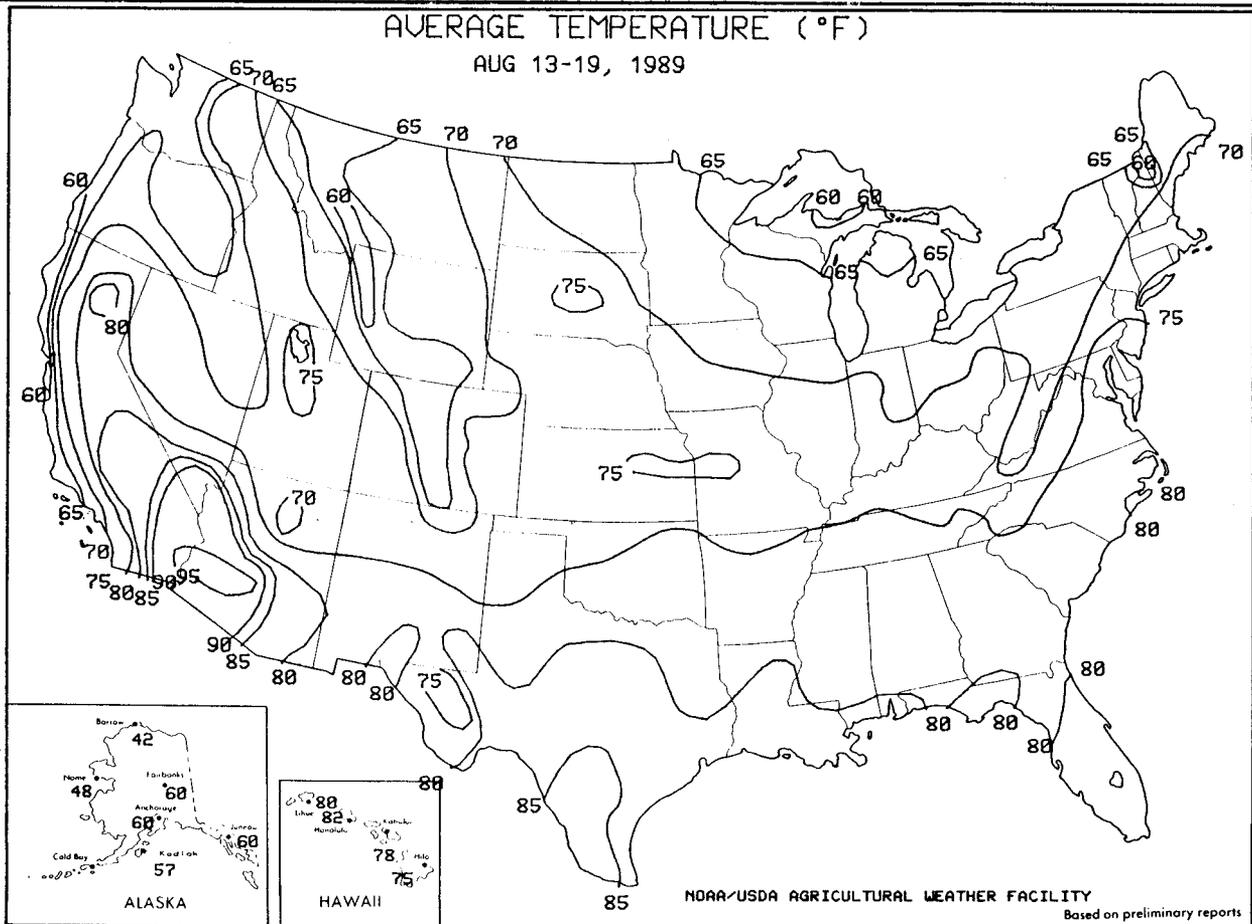
TOTAL PRECIPITATION, INCHES

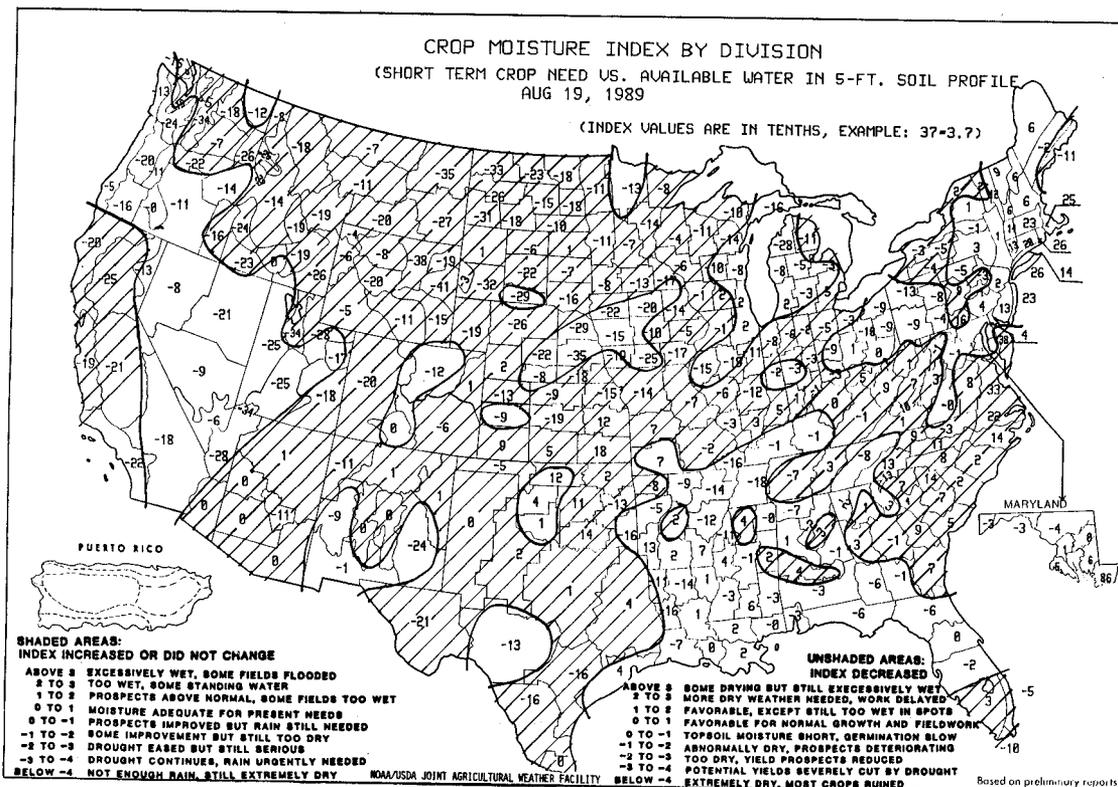
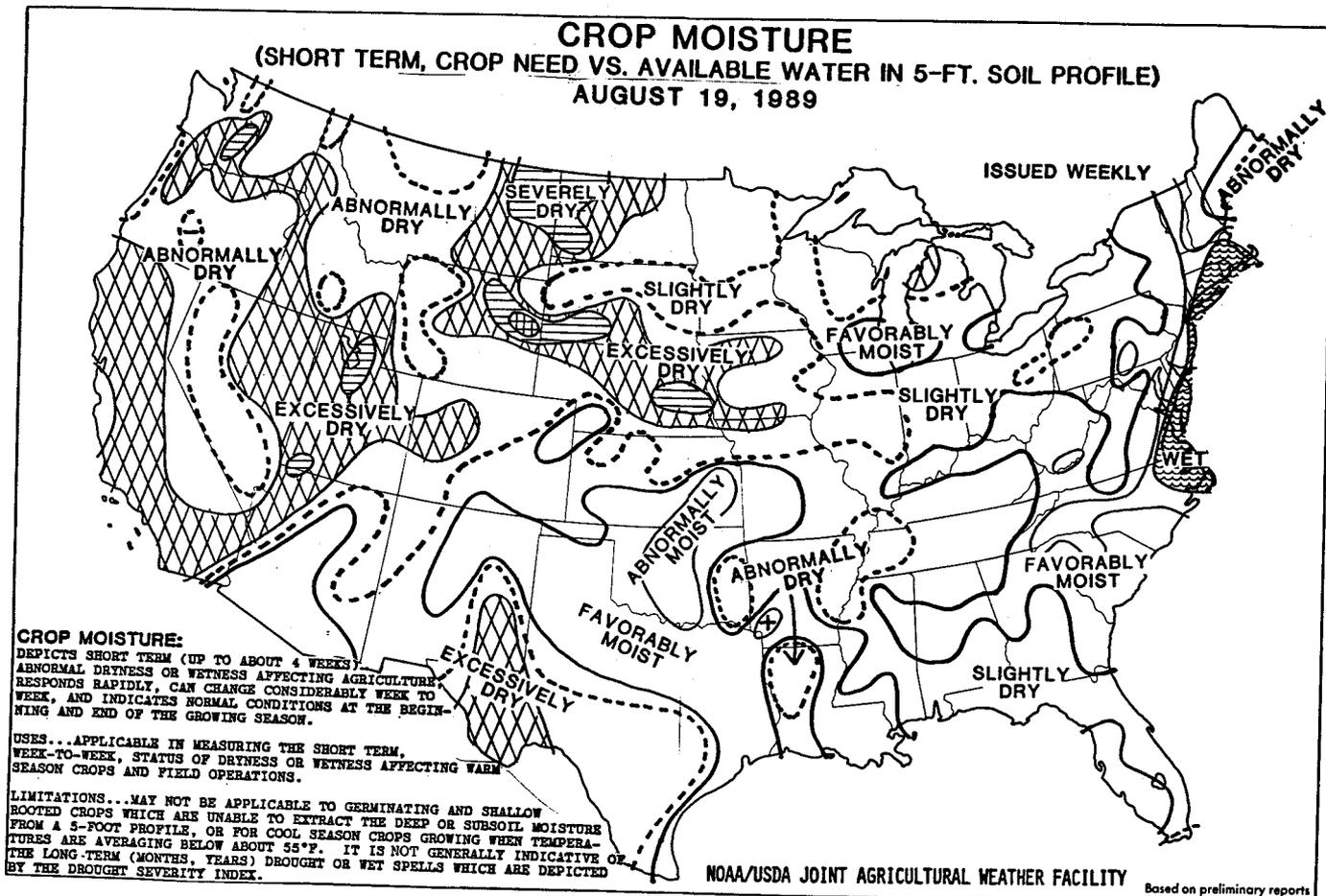
AUGUST 13 - 19, 1989



Based on preliminary reports

NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY





# National Weather Data for Selected Cities

## Weather Data for the Week Ending August 19, 1989

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	TEMPERATURE °F		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	88	65	90	59	77	-3	.1	-.7	.1	21.7	190	44.7	119	95	46	1	0	1	0
MOBILE	91	68	93	66	80	-2	T	-1.5	T	17.8	105	36.9	85	97	48	5	0	1	2
MONTGOMERY	90	67	93	64	79	-3	2.9	2.3	1.9	26.2	261	49.5	150	100	52	4	0	3	0
AK ANCHORAGE	67	54	71	52	60	4	.4	-.1	.2	6.6	153	10.2	132	95	62	0	0	3	0
BARROW	46	39	49	37	42	4	.1	-.1	0	4.9	271	5.8	219	99	87	0	0	4	0
FAIRBANKS	70	49	75	43	60	3	.1	-.3	.1	4.1	95	6.7	104	88	43	0	0	2	0
JUNEAU	66	53	75	48	60	5	.6	-.5	.4	7.1	71	19.5	72	94	63	0	0	2	0
KODIAK	63	52	72	50	57	2	2.7	1.6	1.2	14.9	143	28.4	83	100	84	0	0	5	2
NOME	55	42	60	38	48	-2	.2	-.6	.2	7.4	140	14.4	176	95	68	0	0	3	0
AZ PHOENIX	107	83	111	74	95	5	1.1	.9	.8	1.2	81	3.5	89	58	22	7	0	3	1
PRESCOTT	88	61	95	59	74	4	1.0	.2	.8	5.3	90	8.1	68	74	29	2	0	2	1
TUCSON	102	76	105	73	89	5	.4	-.1	.3	2.4	59	4.4	66	70	24	7	0	2	0
YUMA	106	83	109	79	95	2	0	-.1	0	6.0		6.8	534	69	25	7	0	0	0
AR FORT SMITH	89	66	93	61	78	-4	T	-.7	T	12.6	147	39.4	153	99	47	4	0	0	0
LITTLE ROCK	87	69	89	67	78	-3	.1	-.5	.1	11.3	125	38.6	120	84	50	0	0	1	0
CA BAKERSFIELD	97	65	105	59	81	-1	0	0	0	T	0	2.3	59	57	22	7	0	0	0
EUREKA	64	54	66	52	59	2	T	-.1	T	.3	35	19.2	85	89	70	0	0	0	0
FRESNO	98	63	104	60	80	1	0	0	0	T	43	4.9	70	67	17	7	0	0	0
LOS ANGELES	74	62	77	61	68	-3	0	0	0	T	0	3.2	38	92	65	0	0	0	0
REDDING	98	62	104	56	80	-1	0	0	0	1.0	75	19.6	78	60	16	7	0	0	0
SACRAMENTO	92	57	101	54	75	0	0	0	0	.6	443	9.1	85	80	25	3	0	0	0
SAN DIEGO	78	67	81	66	72	1	0	0	0	T	57	2.0	31	83	60	0	0	0	0
SAN FRANCISCO	76	54	83	52	65	3	0	0	0	T	8	7.4	59	89	47	0	0	0	0
CO DENVER	84	57	90	53	70	-1	.6	.2	.4	4.8	108	12.0	109	84	25	1	0	2	0
GRAND JUNCTION	86	60	90	57	72	-3	.6	.4	.4	1.5	108	5.0	106	78	28	1	0	4	0
PUEBLO	87	56	92	52	71	-3	.1	-.4	0	2.2	53	5.1	65	92	28	1	0	2	0
CT BRIDGEPORT	78	69	84	65	74	1	.2	-.6	.2	12.2	142	32.8	127	87	68	0	0	1	0
HARTFORD	83	66	88	58	74	3	.8	-.1	.8	15.8	179	36.9	137	93	56	0	0	3	1
DC WASHINGTON	84	70	91	67	77	-1	1.0	0	.9	12.7	127	33.5	133	94	57	1	0	2	1
FL APALACHICOLA	87	72	90	70	80	-2	1.2	-.5	.7	17.9	109	32.2	95	96	60	2	0	4	1
DAYTONA BEACH	90	72	92	70	81	0	1.2	-.2	.7	7.2	46	21.6	73	98	59	5	0	4	1
JACKSONVILLE	90	71	93	69	81	-1	1.0	-.8	.6	15.2	90	25.2	74	97	55	5	0	5	1
KEY WEST	91	79	93	77	85	0	.9	-.2	.5	9.5	84	15.6	74	88	60	5	0	5	0
MIAMI	91	75	97	72	83	0	4.5	2.9	1.6	21.1	110	26.5	76	93	59	5	0	7	3
ORLANDO	92	73	94	71	83	0	.4	-.1	.2	15.4	80	25.3	75	96	49	7	0	3	0
TALLAHASSEE	90	70	94	67	80	-2	1.6	0	.6	27.3	137	43.6	98	99	54	4	0	5	0
TAMPA	91	73	94	69	82	0	.4	-.3	.4	18.8	108	23.5	76	95	56	5	0	2	0
WEST PALM BEACH	91	75	95	74	83	1	1.1	-.1	.4	12.5	73	23.8	69	95	57	5	0	5	0
GA ATLANTA	87	69	90	68	78	-1	1.5	.8	.9	18.7	182	41.0	121	94	48	1	0	3	1
AUGUSTA	88	68	91	67	78	-2	1.5	.6	1.1	18.8	176	36.0	118	100	61	2	0	3	1
MACON	90	68	92	65	79	-2	1.1	-.7	1.1	11.6	111	32.9	104	98	50	5	0	2	0
SAVANNAH	88	71	93	67	79	-2	2.2	-.7	.9	16.7	96	25.8	73	99	60	4	0	5	3
HI HILO	82	68	83	67	75	-1	1.2	-.1	.2	31.9	151	130.2	163	94	63	0	0	7	0
HONOLULU	89	74	91	73	82	1	T	-.1	T	2.5	182	15.2	109	78	48	3	0	1	0
KAHULUI	87	69	89	65	78	0	.1	0	.1	2.2	269	28.3	235	85	52	0	0	1	0
LIIHUE	84	76	84	75	80	1	T	-.4	T	8.7	183	39.1	154	78	65	0	0	0	0
ID BOISE	87	55	93	45	71	-1	T	0	T	.2	14	6.6	89	60	18	2	0	1	0
LEWISTON	84	59	88	53	72	-1	T	-.2	T	1.9	80	8.7	105	53	24	0	0	0	0
POCATELLO	86	50	91	44	68	-1	T	-.1	T	.8	46	6.8	97	77	21	1	0	0	0
IL CHICAGO	78	58	83	53	68	-4	1.3	.5	.8	14.2	147	20.4	92	93	53	0	0	3	2
MOLINE	81	58	87	54	70	-3	1.8	1.0	1.1	9.0	78	20.2	80	97	49	0	0	3	1
PEORIA	82	60	85	56	71	-2	.2	-.5	.2	4.3	43	14.2	61	96	48	0	0	1	0
QUINCY	84	61	88	55	73	-2	.2	-.7	.1	3.2	30	10.0	40	92	43	0	0	2	0
ROCKFORD	79	57	84	52	68	-4	.3	-.5	.2	12.0	106	19.8	81	100	55	0	0	2	0
SPRINGFIELD	82	60	85	53	71	-3	T	-.8	T	4.1	44	17.6	77	98	51	0	0	0	0
IN EVANSVILLE	85	62	88	60	74	-3	.2	-.5	.1	13.3	140	37.9	133	99	53	0	0	2	0
FORT WAYNE	79	58	83	55	69	-3	.7	-.1	.7	12.0	132	24.7	107	99	58	0	0	1	1
INDIANAPOLIS	78	61	82	56	69	-4	.1	-.6	.1	12.5	119	29.4	111	96	59	0	0	2	0
SOUTH BEND	80	57	83	53	68	-3	T	-.9	T	12.0	120	22.5	92	94	49	0	0	0	0
IA DES MOINES	81	61	85	56	71	-3	.3	-.6	.3	6.4	65	14.7	69	91	49	0	0	2	0
SIGUX CITY	83	61	87	57	72	-2	.6	-.1	.5	8.3	89	12.9	71	87	45	0	0	2	1
WATERLOO	81	56	83	48	68	-2	.9	-.1	.8	5.2	46	11.5	50	98	43	0	0	3	1
KS CONCORDIA	84	63	90	61	74	-4	1.6	.8	1.0	9.2	95	15.3	79	96	48	1	0	3	2
DOGE CITY	81	64	90	61	73	-6	.2	-.4	.2	10.4	136	15.6	103	97	59	1	0	1	0
GOLDLAND	84	59	90	56	72	-2	1.8	1.4	1.7	11.6	183	15.9	131	100	45	1	0	3	1
TOPEKA	85	60	88	53	73	-5	1.0	.2	.9	11.0	96	20.8	92	99	52	0	0	3	1
WICHITA	82	65	92	61	74	-6	.7	-.1	.6	13.7	146	22.4	117	95	58	1	0	2	1
KY BOWLING GREEN	87	62	91	60	75	-3	T	-.7	T	16.6	151	47.1	141	97	51	1	0	0	0
LEXINGTON	83	62	86	58	72	-3	1.6	.7	.9	11.3	96	39.5	125	94	50	0	0	2	2
LOUISVILLE	85	64	88	61	74	-2	.3	-.4	.3	13.2	136	40.7	139	92	49	0	0	1	0
LA ALEXANDRIA	91	71	93	68	81	-2	T	-1.0	T	16.7	151	48.9	137	92	47	6	0	1	0
BATON ROUGE	91	70	93	69	81	-1	1.2	.1	.6	32.8	244	60.0	158	97	51	5	0	5	1
LAKE CHARLES	92	71	93	69	81	0	T	-1.2	T	31.4	248	51.4	155	96	50	6	0	0	0
NEW ORLEANS	90	69	91	68	80	-2	.4	-.9	.4	19.4	129	35.9	91	100	51	5	0	2	0

Based on 1951-80 normals

Weather Data for the Week Ending August 19, 1989

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	TEMPERA- TURE OF		PRECIPI- TATION	
																90 AND ABOVE	52 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
SHREVEPORT	90	68	94	64	79	-4													
ME CARIBOU	77	56	84	45	67	4	2.8	1.9	2.8	10.2	106	21.3	97	99	49	3	0	2	0
PORTLAND	80	60	86	50	70	3	.5	-.2	.5	8.3	110	25.6	99	98	54	0	0	2	0
MD BALTIMORE	81	68	88	65	75	-1	.4	-.6	-.4	14.0	134	36.5	136	97	64	0	0	4	0
SALISBURY	82	70	88	69	76	1	3.2	1.9	2.2	18.6	162	36.9	124	98	67	0	0	4	2
MA BOSTON	78	67	86	62	73	0	2.3	1.4	2.1	12.9	165	26.2	98	96	65	0	0	4	1
CHATHAM	74	62	78	60	68	0	2.2	1.8	1.1	9.8	121	29.6	105	94	83	0	0	3	0
MI ALPENA	77	50	84	41	63	2	1.6	-.9	1.4	5.0	61	13.8	75	99	48	0	0	2	1
DETROIT	78	58	83	54	68	-3	1.2	-.5	-.2	8.7	102	19.3	95	98	64	0	0	2	0
FLINT	78	55	82	48	67	-2	1.6	-.8	-.8	11.2	139	20.6	109	96	52	0	0	3	2
GRAND RAPIDS	79	55	84	50	67	-3	1.1	-.4	1.1	9.0	106	19.6	93	98	49	0	0	1	0
HOUGHTON LAKE	76	52	82	39	64	-1	.2	-.5	-.1	4.8	62	13.8	77	97	48	0	0	2	1
LANSING	79	54	83	46	67	-2	.4	-.3	-.4	6.8	82	18.7	99	95	52	0	0	2	0
MARQUETTE	70	47	78	37	59	-4	.3	-.5	-.1	8.0	89	18.0	77	94	57	0	0	3	0
MUSKEGON	78	56	80	50	67	-2	.1	-.6	-.1	5.9	87	15.8	84	94	49	0	0	2	0
SAULT ST. MARIE	75	51	83	43	63	-1	.1	-.7	-.1	4.6	56	15.1	78	98	51	0	0	1	0
MN ALEXANDRIA	80	59	84	54	70	1	1.2	-.4	.7	4.9	52	10.7	62	92	45	0	0	3	1
DULUTH	73	54	79	44	63	0	1.8	-.9	1.1	7.4	71	16.7	86	99	59	0	0	3	2
INT'L FALLS	76	53	81	45	65	0	.5	-.2	-.4	11.1	119	16.1	101	98	50	0	0	2	0
MINNEAPOLIS	78	60	86	55	69	-2	.9	0	.7	8.0	81	17.8	97	95	51	0	0	3	1
ROCHESTER	77	55	80	49	66	-2	.9	-.1	-.4	7.2	74	15.0	79	97	52	0	0	3	0
MS GREENWOOD	89	67	91	63	78	-3	.2	-.4	-.2	23.7	245	50.5	140	95	47	4	0	1	0
JACKSON	91	66	93	62	78	-3	T	-.8	T	13.2	132	34.7	98	100	46	6	0	0	0
MERIDIAN	92	65	93	62	78	-3	.4	-.4	-.2	20.4	185	47.5	129	100	48	6	0	0	0
MO CAPE GIRARDEAU	85	63	89	60	74	-1	.9	-.1	.8	16.4	174	40.3	136	99	51	0	0	2	1
COLUMBIA	82	61	84	57	71	-5	1.8	1.1	.7	12.4	142	25.0	104	98	55	0	0	4	2
KANSAS CITY	84	63	86	60	74	-5	1.8	1.0	1.2	10.1	91	19.8	83	97	52	0	0	3	2
SAINT LOUIS	84	66	88	63	75	-2	.6	0	.6	7.6	84	22.3	96	90	50	0	0	2	1
SPRINGFIELD	81	62	86	59	72	-5	.5	-.2	.5	7.9	80	23.5	93	97	56	0	0	1	0
MT BILLINGS	82	57	89	50	69	-2	T	-.2	T	1.8	53	10.1	97	75	29	0	0	2	0
GLASGOW	84	59	90	51	71	-1	T	-.3	T	2.2	44	7.5	90	72	27	1	0	0	0
GREAT FALLS	80	50	85	45	65	-3	.4	-.1	.3	5.6	121	13.9	125	90	30	0	0	4	0
HAVRE	80	53	89	47	67	-2	.1	-.2	-.1	2.9	69	7.6	88	62	27	0	0	1	0
HELENA	81	51	86	46	66	0	T	-.2	T	3.4	91	8.7	105	77	28	0	0	2	0
KALISPELL	76	48	84	39	62	-2	.4	-.1	.2	3.5	88	11.5	112	95	34	0	0	3	0
MILES CITY	84	60	95	54	72	0	.2	-.1	.2	4.5	88	12.2	116	72	30	1	0	1	0
MISSOULA	80	49	88	44	65	-1	.2	0	.1	3.5	107	9.1	104	85	27	0	0	2	0
NE GRAND ISLAND	84	61	88	55	73	-2	.5	-.1	.3	7.7	97	11.5	67	95	46	0	0	3	0
LINCOLN	86	60	90	53	73	-2	1.0	-.2	1.0	7.8	85	11.1	57	92	42	1	0	1	1
NORFOLK	86	60	88	53	73	-1	.2	-.4	.1	6.1	66	11.3	63	92	39	0	0	2	0
NORTH PLATTE	85	57	91	54	71	-2	.1	-.4	-.1	6.2	79	11.0	73	98	40	1	0	1	0
OMAHA	84	63	88	61	73	-2	1.4	-.4	-.9	8.9	87	13.6	65	89	48	0	0	2	0
SCOTTSBLUFF	86	57	91	55	72	0	.2	0	.1	2.5	44	6.8	60	95	33	1	0	2	1
VALENTINE	85	59	92	51	72	-1	.1	-.5	-.1	5.9	86	9.2	70	78	35	2	0	1	0
NV ELY	85	46	89	43	65	0	T	-.1	T	2.4	135	5.3	88	73	18	0	0	1	0
LAS VEGAS	104	77	110	67	90	2	T	-.1	T	.9	111	2.2	86	35	10	7	0	1	0
RENO	90	49	92	47	69	2	0	-.1	0	2.4	326	5.2	109	66	12	4	0	0	0
WINNEMUCCA	91	48	95	45	70	1	T	-.1	T	.7	52	3.1	61	48	9	6	0	0	0
NH CONCORD	82	59	86	51	71	3	.6	-.2	.5	11.0	140	24.5	111	98	48	0	0	2	0
NJ ATLANTIC CITY	81	68	85	65	74	0	.9	-.2	.4	15.8	162	35.5	133	99	77	0	0	4	0
NM ALBUQUERQUE	87	63	90	59	75	-1	.1	-.3	.1	2.0	71	3.4	70	72	24	3	0	2	0
CLOVIS	86	63	91	61	74	-2	1.6	1.0	.6	10.0	141	11.2	98	91	40	1	0	4	2
ROSWELL	93	67	95	65	80	1	.2	-.3	.2	1.5	38	3.1	49	76	29	7	0	1	0
NY ALBANY	82	61	85	51	72	2	.7	0	.7	14.6	178	28.0	127	97	50	0	0	2	1
BINGHAMTON	76	57	80	47	66	-1	.4	-.3	-.4	12.3	136	27.0	117	97	56	0	0	2	0
BUFFALO	79	57	85	50	68	-1	.7	-.2	-.7	9.7	118	26.3	117	92	42	0	0	2	0
NEW YORK	81	70	88	66	76	0	1.0	0	.5	19.2	203	40.1	149	92	58	0	0	4	1
ROCHESTER	80	56	87	47	68	-2	.8	0	.6	9.0	124	23.1	118	96	46	0	0	2	1
SYRACUSE	80	57	85	47	69	-1	.5	-.4	-.4	10.2	106	21.9	90	97	49	0	0	4	0
NC ASHEVILLE	80	62	83	60	71	-2	2.6	1.6	2.0	22.5	220	40.4	140	100	59	0	0	5	1
CHARLOTTE	85	68	89	66	77	-2	1.8	1.0	1.5	11.6	119	30.8	106	97	58	0	0	4	1
GREENSBORO	84	56	89	61	75	-2	1.3	-.4	1.0	11.4	106	32.1	115	98	60	0	0	6	1
HATTERAS	85	73	88	71	79	0	.6	-.8	.4	17.4	130	49.6	149	99	70	0	0	4	0
NEW BERN	86	71	89	70	79	0	2.4	1.0	1.1	20.6	130	42.1	121	99	68	0	0	5	2
RALEIGH	84	68	91	66	76	0	2.6	1.6	2.2	16.7	155	38.7	138	99	65	1	0	4	1
WILMINGTON	87	71	91	69	79	-1	.8	-.7	.8	20.0	116	42.1	118	99	63	1	0	4	1
ND BISMARCK	83	54	93	38	69	0	.2	-.2	.2	2.7	45	7.6	67	91	38	1	0	1	0
FARGO	82	58	89	48	70	1	.7	-.1	.4	4.4	54	11.6	83	91	38	0	0	3	0
GRAND FORKS	83	55	92	46	69	1	1.1	-.5	.9	3.1	42	8.2	64	90	38	1	0	2	1
WILLISTON	83	57	95	48	70	1	.3	0	.3	2.9	54	7.9	80	89	36	2	0	2	0
OH AKRON-CANTON	80	59	83	55	70	-1	.2	-.6	.1	11.7	125	28.3	117	95	52	0	0	3	0
CINCINNATI	81	62	86	57	72	-1	.7	0	.5	10.6	103	34.7	127	93	49	0	0	3	0
CLEVELAND	79	61	85	57	70	-1	.2	-.6	-.1	8.7	98	28.9	125	97	56	0	0	4	0
COLUMBUS	79	61	84	58	70	-3	T	-.8	T	14.6	142	31.9	125	96	50	0	0	1	0

Weather Data for the Week Ending August 19, 1989

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	TEMPERATURE °F		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
DAYTON	80	60	86	56	70	-3	T	-1.7	T	8.8	96	35.2	147	97	50	0	0	2	0
TOLEDO	78	58	83	53	68	-3	.5	-1.3	.5	14.8	171	27.7	133	96	52	0	0	1	0
YOUNGSTOWN	81	55	84	53	68	-1	T	-1.8	T	13.8	142	29.1	118	97	47	0	0	0	0
OK OKLAHOMA CITY	81	68	93	64	74	-7	3.7	3.1	2.0	22.3	268	32.7	156	99	67	1	0	3	2
TULSA	86	68	94	63	77	-5	.4	-1.3	.2	10.0	102	22.6	90	96	54	2	0	3	0
OH ASTORIA	68	54	71	50	61	1	T	-1.3	T	4.8	108	35.0	93	95	69	0	0	2	0
HURONS	82	45	85	39	63	-4	0	-1.1	0	1.4	130	7.1	118	67	16	0	0	0	0
MEDFORD	89	52	91	49	70	-1	0	-1.1	0	.3	26	10.6	99	83	22	3	0	0	0
PENDLETON	81	54	86	48	68	-4	0	-1.1	0	.8	61	8.9	123	59	24	0	0	0	0
PORTLAND	76	57	84	51	67	-1	T	-1.3	T	1.2	50	19.1	93	93	52	0	0	0	0
SALEM	79	51	87	45	65	-1	0	-1.2	0	1.9	97	16.9	76	93	41	0	0	0	0
PA ALLENTOWN	80	64	87	58	72	0	1.6	-1.6	1.0	12.1	118	30.7	110	97	58	0	0	3	1
ERIE	79	61	84	53	70	1	.4	-1.6	.4	8.3	85	26.1	110	89	52	0	0	2	0
HARRISBURG	79	65	85	60	72	-2	2.7	2.0	2.7	16.8	188	35.4	142	96	63	0	0	2	1
PHILADELPHIA	83	70	89	67	76	1	.6	-1.3	.5	17.7	172	36.8	138	95	60	0	0	3	0
PITTSBURGH	83	62	86	60	72	1	.9	-1.2	.8	12.8	137	31.8	127	96	45	0	0	3	1
SCRANTON	79	60	85	53	70	-1	1.0	-1.2	.6	11.5	129	25.4	116	98	55	0	0	3	1
RI PROVIDENCE	81	68	86	64	75	3	1.9	1.0	1.1	16.6	202	35.8	130	98	66	0	0	5	2
SC CHARLESTON	87	71	93	69	79	-1	5.7	4.2	3.5	15.5	86	28.5	79	98	62	3	0	6	3
COLUMBIA	89	69	92	68	79	-1	.8	-1.5	.6	16.8	127	35.5	104	99	56	4	0	4	1
FLORENCE	88	70	93	67	79	-1	1.6	.5	1.5	15.1	113	31.7	103	97	55	2	0	3	1
GREENVILLE	85	65	88	63	75	-3	1.7	.8	1.6	13.1	116	30.8	90	96	53	0	0	3	1
SD ABERDEEN	83	68	92	48	70	0	3.3	2.8	2.6	7.5	110	14.4	108	97	39	1	0	2	2
HURON	85	57	92	47	71	-1	.1	-1.4	0	5.3	78	11.1	80	88	37	1	0	2	0
RAPID CITY	89	58	99	54	74	2	.9	.5	.5	2.7	43	6.9	54	83	27	4	0	3	0
SIOUX FALLS	83	69	89	56	71	-1	1.5	.8	1.2	5.9	71	10.7	64	93	43	0	0	2	1
TN CHATTANOOGA	87	66	89	62	77	-1	.9	.1	.4	20.5	206	47.4	136	96	53	0	0	4	0
KNOXVILLE	86	65	87	60	76	-2	.8	-1.1	.7	12.8	126	36.7	115	99	52	0	0	2	1
MEMPHIS	90	68	91	64	79	-2	T	-1.8	T	14.7	150	43.4	124	86	45	3	0	0	0
NASHVILLE	87	63	90	58	75	-3	.8	.1	.8	12.6	132	39.0	120	93	42	1	0	1	1
TX ABILENE	91	70	96	67	81	-3	.8	-1.3	.8	13.1	216	22.2	151	85	39	4	0	1	1
AMARILLO	85	63	91	58	74	-3	.5	-1.2	.4	10.6	132	15.1	110	95	43	1	0	2	0
AUSTIN	95	71	98	66	83	-1	.3	-1.2	.3	4.1	67	20.2	106	94	38	7	0	1	0
BEAUMONT	91	72	92	69	81	-2	2.3	1.0	1.4	30.1	212	55.9	161	95	50	6	0	2	2
BROWNSVILLE	91	73	94	71	82	-2	.9	.3	.9	5.7	102	13.0	104	96	56	6	0	2	1
CORPUS CHRISTI	92	73	93	70	82	-2	2.1	1.3	1.0	6.5	79	13.3	77	93	54	7	0	3	2
DEL RIO	94	74	96	73	84	-1	T	-1.4	T	.8	17	5.8	57	65	31	7	0	0	0
EL PASO	96	67	99	64	81	1	1.5	1.2	1.2	3.2	112	5.3	122	82	27	7	0	5	1
FORT WORTH	89	72	94	68	80	-5	.6	.1	.4	13.2	235	34.6	174	91	49	3	0	3	0
GALVESTON	87	78	88	75	83	-1	T	-1.9	T	22.7	232	34.9	150	85	62	0	0	1	0
HOUSTON	90	71	93	68	80	-3	.3	-1.6	.3	25.4	246	50.1	177	94	52	3	0	1	0
LUBBOCK	89	66	95	61	78	-1	.7	.2	.7	7.2	111	9.8	83	92	38	4	0	1	1
MIDLAND	93	66	99	62	79	-2	.5	.2	.5	1.9	46	4.7	56	89	33	5	0	1	1
SAN ANGELO	92	69	95	65	81	-3	.1	-1.3	.1	6.0	148	13.7	131	83	37	5	0	1	0
SAN ANTONIO	96	73	99	66	85	0	T	-1.6	T	5.1	79	12.4	71	88	36	6	0	0	0
VICTORIA	93	73	95	69	83	-1	.2	-1.5	.2	7.2	82	15.1	71	94	44	7	0	2	0
WACO	94	72	99	68	83	-3	.1	-1.3	.1	8.4	155	26.4	136	91	43	6	0	3	0
WICHITA FALLS	87	69	95	66	78	-6	1.5	1.0	.7	17.8	298	28.7	169	96	56	3	0	3	2
UT CEDAR CITY	88	59	93	53	73	1	.3	0	.3	2.8	123	5.5	83	76	22	4	0	3	0
SALT LAKE CITY	91	64	96	61	78	3	.3	.1	.3	1.2	55	7.3	71	66	20	4	0	3	0
VT BURLINGTON	80	59	84	49	70	2	1.8	.9	1.6	12.6	134	21.3	102	94	48	0	0	2	1
VA NORFOLK	83	71	86	70	77	-1	3.6	2.4	1.4	17.6	147	41.7	143	99	73	0	0	6	3
RICHMOND	83	68	88	65	75	-2	1.7	.6	1.0	14.6	123	35.1	125	98	66	0	0	4	2
ROANOKE	82	63	88	56	72	-3	1.0	.1	.6	18.9	206	34.2	134	100	62	0	0	5	1
WA QUILLAYUTE	67	54	71	50	61	2	.3	-1.4	.1	7.3	104	48.4	83	99	64	0	0	5	0
SHATTLE-TACOMA	74	56	82	54	65	1	.2	-1.1	.2	1.9	69	19.5	95	91	50	0	0	1	0
SPOKANE	75	50	84	43	63	-6	T	-2.2	T	.7	33	8.3	83	79	34	0	0	0	0
YAKIMA	82	50	88	43	66	-2	T	-1.1	T	.1	14	3.5	76	82	29	0	0	0	0
WV BECKLEY	77	60	82	56	69	0	1.5	.7	.9	10.0	91	28.4	99	98	59	0	0	3	2
CHARLESTON	81	63	86	60	72	-2	1.2	.3	.8	13.0	115	38.7	133	99	61	0	0	3	1
HUNTINGTON	82	63	87	59	72	-3	1.8	1.0	.9	15.1	142	40.9	146	99	59	0	0	3	2
PARKERSBURG	80	63	85	57	72	-2	.5	-1.3	.4	12.8	125	36.2	139	99	59	0	0	3	0
WI GREEN BAY	77	53	80	46	65	-3	T	-1.7	T	4.6	55	12.9	71	94	47	0	0	3	0
LACROSSE	80	58	84	53	69	-2	.4	-1.4	.2	5.3	53	13.3	65	98	48	0	0	3	0
MADISON	77	54	79	47	65	-4	.9	.1	.5	8.5	85	15.7	76	98	54	0	0	3	1
MILWAUKEE	74	57	80	53	65	-4	.3	-1.4	.2	11.0	122	13.8	97	98	61	0	0	3	0
WAUSAU	77	55	79	47	66	-1	.7	-1.3	.6	7.0	67	15.3	73	94	47	0	0	2	1
WY CASPER	85	52	92	46	69	-1	.3	.2	.2	3.2	121	8.7	105	82	21	2	0	4	0
CHEYENNE	79	52	85	49	65	-2	.2	-1.1	.1	6.0	125	9.8	97	97	34	0	0	2	0
LANDER	82	53	89	48	68	-1	.1	0	.1	3.8	159	11.4	120	94	25	0	0	1	0
SHERIDAN	82	53	91	50	68	-1	.2	0	.1	2.4	64	8.8	82	86	29	2	0	2	0

## National Agricultural Summary

August 14-20, 1989

**HIGHLIGHTS:** Major producing States collectively showed little overall change in crop conditions, though corn and soybeans rated slightly lower in the Corn Belt and parts of the Southeast. Temperatures averaged below normal over most of the United States. Soil moisture was generally short to adequate except in the Dakotas where it was very short to short and along the Atlantic coast, where adequate to surplus soil moisture prevailed.

Winter wheat harvest reached 96 percent (%) completion, 1 percentage point behind the 5-year average. Spring wheat harvest jumped to 79% complete, 17 points ahead of average. Corn was mostly good to fair with 68% of the acreage in the dough stage or beyond, and the average progress was at 77%. Soybeans rated mostly fair to good with 76% of the acreage setting pods, 5 points behind normal. Cotton was generally fair to good with 90% of the acreage setting bolls, compared with the 96% average. Sorghum was good to fair with heading reaching 70%, well behind the 81% average.

**SMALL GRAIN:** Winter wheat harvest reached 96% completion, 1 point behind the average. Harvest progress continued to trail the average in the Pacific Northwest and Montana but was complete in the other major producing States. Harvest lagged 21 points behind normal in Montana.

Spring wheat harvest was 79% complete, 17 points ahead of normal. South Dakota's harvest was complete. Harvest advanced 20 or more points in all other major producing States.

**CORN:** Corn was mostly in good to fair condition. Sixty-eight percent of the acreage was in the dough stage or beyond. This was a 20-point advance but still 9 points behind average. Acreage in the dent stage doubled to 26%, 13 points behind average. Four percent was mature compared with the average 7%. Crop development trailed the average in most of the 17 major producing States. Soil compaction and nitrogen deficiency had stressed corn in Ohio. The Texas harvest was progressing in the Blacklands.

**SOYBEANS:** Soybeans were mostly fair to good. Blooming was 92% complete, 2 points behind the average. Pod set was occurring on 76% of the acreage, 5 points behind normal. Crop condition declined slightly in parts of the Corn Belt and the Southeast. The Kansas crop was showing drought stress in central, north-central, and northeastern areas, with some stands shedding blooms. Crop development trailed the average in most States. Acres setting pods were 37 points behind the average in Ohio.

**COTTON:** Cotton was generally fair to good with 90% of the acreage setting bolls, 6 points behind normal. Bolls were opening on 10% of the acres, 5 points behind the average. The percentage of acreage opening bolls trailed the average by 12 or more points in Arkansas, Georgia, Louisiana, and Mississippi but was near normal elsewhere. Cotton was good to excellent in Arizona, good in California, and fair to good in Texas where bolls were opening in the Hill Country and central areas. Harvest continued in the Coastal Bend and Rio Grande Valley.

**SORGHUM:** Sorghum was mostly good to fair with 70% of the acreage headed, 11 points behind normal. Twenty-nine percent of the acreage was turning, 5 points behind normal. Crop conditions declined slightly in Mississippi, Missouri, Nebraska, and Tennessee. Condition improved in Illinois, Kansas, and Louisiana. Kansas heading progress has been delayed by hot, dry weather north and east and by cool temperatures west and southwest. The percentage of acreage turning color was 10 or more points behind normal in Kansas, Missouri, Oklahoma, and Tennessee. Harvest was starting in the Texas Low Plains, and rain across the High Plains has helped. Harvest began in Mississippi.

**OTHER FIELD CROPS:** Rice continued in mostly good to fair condition with 77% of the acreage headed, 4 points behind normal. Louisiana's harvest was 42% complete, 3 points ahead of normal. Mississippi harvest was just underway. California rice harvest neared completion. Peanuts were mostly good in Alabama, Georgia, and the Carolinas. Digging started in early Georgia fields. Tobacco was fair to good in Kentucky with 23% of the Burley cut, compared with the 18% average. North Carolina tobacco was fair to good with flue cured harvest at 47%, 5 points ahead of normal. Tobacco rated good in South Carolina with harvest at 68% completion, trailing the average by 4 points.

**FRUIT AND NUTS:** In California's San Joaquin Valley, table grape harvest was active, and wine grape harvest continued. The California clingstone peach harvest progressed, pear harvests continued, and prune harvest was underway. Almond harvest started. Florida citrus groves were in good to excellent condition. Frequent rains have provided adequate moisture. New-crop fruit showed good growth. Idaho's peach harvest reached 51% completion, and New England peaches were in good to excellent condition, with harvest at 37%. Cranberry condition was good. Peaches were fair to good in South Carolina, and their harvest was 94% complete.

**VEGETABLES:** Sweetpotato harvest was underway in California's Selma district, summer potatoes were 23% harvested in Idaho. Land preparation was active in all of Florida's vegetable producing areas, with planting continuing in all areas except Homestead. Michigan growers were harvesting carrots, peppers, tomatoes, melons, cucumbers, celery, and sweet corn. Green beans for processing were half harvested in New York. Heavy rains damaged Long Island crops. Onion harvest progressed in Orange County. In Oregon, table beet harvest started in the Willamette Valley. Also harvested were squash, cucumbers, and early onions. Sweetpotato harvest continued in East Texas. Watermelon harvest was winding down in that area. Cantaloupe harvest continued in the Trans-Pecos. Onion and potato harvests were virtually complete in the Texas High Plains.

**PASTURES AND LIVESTOCK:** Pastures remained in mostly good to excellent condition in the Delta and Southeast and were generally fair at best elsewhere. Cattle were moved to late summer rangeland in Idaho. Nebraska cattlemen are supplementing pastures or moving cattle to other pastures.

Crop Progress

FOR WEEK ENDING AUGUST 20, 1989

COTTON  
% SETTING BOLLS

	1989	1988	AVG.
ALA	98	100	100
ARIZ	100	100	100
ARK	99	100	100
CALIF	100	100	99
GA	100	100	100
LA	99	99	100
MISS	94	99	99
MO	100	100	100
N MEX	100	100	98
N C	89	89	94
OKLA	65	95	80
S C	93	86	95
TENN	100	100	100
TEX	82	96	93

14 STATES 90 98 96

THESE 14 STATES PRODUCED 99% OF THE 1988 COTTON CROP.

COTTON  
% BOLLS OPENING

	1989	1988	AVG.
ALA	13	13	10
ARIZ	48	50	45
ARK	0	7	15
CALIF	5	10	10
GA	6	7	18
LA	1	17	24
MISS	3	8	18
MO	8	4	9
N MEX	10	0	7
N C	8	14	5
OKLA	0	0	0
S C	7	2	9
TENN	6	6	7
TEX	13	16	14

14 STATES 10 14 15

THESE 14 STATES PRODUCED 99% OF THE 1988 COTTON CROP.

RICE  
% HEADED

	1989	1988	AVG.
ARK	72	69	77
CALIF	55	60	58
LA	90	87	93
MISS	79	74	88
TEX	100	100	100

5 STATES 77 76 81

THESE 5 STATES PRODUCED 97% OF THE 1988 RICE CROP.

SPRING WHEAT  
% HARVESTED

	1989	1988	AVG.
IDAHO	41	70	41
MINN	93	98	67
MONT	39	82	51
N DAK	83	94	58
S DAK	100	100	88

5 STATES 79 93 62

THESE 5 STATES PRODUCED 87% OF THE 1988 SPRING WHEAT CROP.

GRAIN SORGHUM  
% HEADED

	1989	1988	AVG.
ARK	93	91	NA
ILL	92	89	NA
KANS	50	75	70
LA	96	93	98
MISS	94	98	99
MO	92	90	91
NEBR	85	96	93
OKLA	70	70	75
S DAK	74	87	77
TENN	96	90	97
TEX	83	89	89

11 STATES 71 84 NA

EXCL. STATES WITH NA 70 84 81

THESE 11 STATES PRODUCED 96% OF THE 1988 GRAIN SORGHUM CROP.

NA - NOT AVAILABLE.

GRAIN SORGHUM  
% COLORING

	1989	1988	AVG.
ARK	64	51	NA
ILL	31	35	NA
KANS	5	10	15
LA	72	51	80
MISS	67	64	76
MO	42	35	52
NEBR	20	28	20
OKLA	20	40	30
S DAK	26	34	20
TENN	52	52	67
TEX	66	64	67

11 STATES 30 33 NA

EXCL. STATES WITH NA 29 32 34

THESE 11 STATES PRODUCED 96% OF THE 1988 GRAIN SORGHUM CROP.

NA - NOT AVAILABLE.

WINTER WHEAT  
% HARVESTED

	1989	1988	AVG.
ARK	100	100	100
CALIF	100	100	99
COLO	100	100	100
GA	100	100	100
IDAHO	56	80	62
ILL	100	100	100
IND	100	100	100
KANS	100	100	100
MICH	100	100	100
MO	100	100	100
MONT	64	97	85
NEBR	100	100	100
N MEX	100	100	NA
N C	100	100	100
OHIO	100	100	100
OKLA	100	100	100
OREG	86	88	88
S DAK	100	100	100
TEX	100	100	100
WASH	80	82	84

20 STATES 96 98 NA

EXCL. STATES WITH NA 96 98 97

THESE 20 STATES PRODUCED 90% OF THE 1988 WINTER WHEAT CROP.

NA - NOT AVAILABLE.

SOYBEANS  
% BLOOM

	1989	1988	AVG.
ALA	69	78	82
ARK	63	67	77
GA	92	93	95
ILL	100	100	100
IND	100	100	100
IOWA	100	100	100
KANS	95	96	90
KY	82	84	83
LA	87	79	90
MICH	95	95	95
MINN	99	99	99
MISS	74	72	83
MO	91	93	93
NEBR	100	100	100
N C	69	75	75
OHIO	91	99	100
S C	66	78	77
S DAK	99	100	95
TENN	72	75	84

19 STATES 92 93 94

THESE 19 STATES PRODUCED 95% OF THE 1988 SOYBEANS CROP.

SOYBEANS  
% SETTING PODS

	1989	1988	AVG.
ALA	47	48	58
ARK	38	39	48
GA	65	73	75
ILL	97	100	95
IND	80	87	85
IOWA	100	100	96
KANS	65	80	70
KY	45	42	44
LA	67	54	72
MICH	65	65	70
MINN	94	99	96
MISS	51	49	52
MO	74	78	78
NEBR	85	97	90
N C	38	36	40
OHIO	56	88	93
S C	37	38	40
S DAK	90	97	81
TENN	46	55	57

19 STATES 76 81 81

THESE 19 STATES PRODUCED 95% OF THE 1988 SOYBEANS CROP.

	CORN % MATURE		
	1989	1988	AVG.
COLO	0	0	0
GA	89	91	93
ILL	2	7	7
IND	0	1	5
IOWA	1	14	5
KANS	15	25	15
KY	5	5	14
MICH	0	0	0
MINN	0	3	1
MO	11	13	16
NEBR	0	0	0
N C	34	44	51
OHIO	0	0	0
PA	0	0	0
S DAK	1	0	0
TEX	62	66	65
WIS	0	0	0
17 STATES	4	8	7

THESE 17 STATES PRODUCED 94% OF THE 1988 CORN CROP.

	CORN % DENT		
	1989	1988	AVG.
COLO	6	14	21
GA	97	100	99
ILL	34	53	53
IND	23	31	33
IOWA	22	72	44
KANS	40	50	35
KY	46	45	53
MICH	0	10	10
MINN	16	61	28
MO	68	70	73
NEBR	25	43	32
N C	72	78	82
OHIO	5	18	34
PA	1	4	12
S DAK	14	49	17
TEX	77	76	79
WIS	11	34	19
17 STATES	26	50	39

THESE 17 STATES PRODUCED 94% OF THE 1988 CORN CROP.

	CORN % DOUGH		
	1989	1988	AVG.
COLO	34	66	67
GA	100	100	100
ILL	84	87	89
IND	77	87	88
IOWA	64	94	76
KANS	90	85	80
KY	86	87	85
MICH	15	45	55
MINN	62	94	65
MO	93	91	92
NEBR	75	84	80
N C	92	94	94
OHIO	44	66	81
PA	24	36	54
S DAK	64	84	50
TEX	93	97	96
WIS	43	64	56
17 STATES	68	84	77

THESE 17 STATES PRODUCED 94% OF THE 1988 CORN CROP.

### Crop Condition PERCENT

FOR WEEK ENDING AUGUST 20, 1989

#### GRAIN SORGHUM

STATE	VP	P	F	G	EX
ARK	0	0	16	74	10
ILL	0	0	23	77	0
KANS	4	20	15	50	11
IA	0	11	36	53	0
MISS	0	10	40	45	5
MO	1	4	43	49	3
NEBR	29	37	20	14	0
OKLA	0	0	2	98	0
S DAK	7	21	47	24	1
TENN	2	4	25	64	5
TEX	1	6	22	54	17
11 STATE	7	17	21	46	9
PREV WEEK	7	16	22	45	10
PREV YEAR	1	11	44	39	5

#### RICE

STATE	VP	P	F	G	EX
ARK	0	5	20	68	7
CALIF	0	0	10	75	15
LA	0	0	46	54	0
MISS	0	0	40	60	0
TEX	0	0	38	44	18
5 STATE	0	2	28	62	8
PREV WEEK	0	1	30	62	7
PREV YEAR	0	2	29	63	6

#### CORN

STATE	VP	P	F	G	EX
COLO	0	1	20	63	16
GA	0	0	14	58	28
ILL	0	5	21	63	11
IND	0	3	13	65	19
IOWA	3	22	45	28	2
KANS	19	1	3	36	41
KY	0	0	4	61	35
MICH	0	5	20	50	25
MINN	7	14	34	40	5
MO	7	14	44	30	5
NEBR	5	18	28	32	17
N C	0	0	7	77	16
OHIO	2	10	35	43	10
PA	3	12	22	38	25
S DAK	4	13	39	38	6
TEX	0	3	8	52	37
WISC	0	1	7	68	24
17 STATE	3	11	27	46	13
PREV WEEK	3	8	26	51	12
PREV YEAR	15	38	31	14	2

#### COTTON

STATE	VP	P	F	G	EX
ALA	0	8	58	34	0
ARIZ	0	0	0	71	29
ARK	0	0	84	16	0
CALIF	0	0	5	90	5
GA	0	1	23	72	4
IA	0	4	74	22	0
MISS	0	15	65	20	0
MO	0	0	50	50	0
N MEX	0	0	35	45	20
N C	0	0	7	89	4
OKLA	0	20	60	20	0
S C	0	0	3	94	3
TENN	6	2	41	47	4
TEX	0	12	63	23	2
14 STATE	0	8	53	36	3
PREV WEEK	0	10	48	39	3
PREV YEAR	0	1	33	57	9

#### SOYBEANS

STATE	VP	P	F	G	EX
ALA	0	4	32	63	1
ARK	0	15	73	12	0
GA	0	2	15	69	14
ILL	0	4	23	67	6
IND	0	2	24	61	13
IOWA	6	14	48	29	3
KANS	20	13	7	41	19
KY	0	0	39	51	10
LA	2	21	47	30	0
MICH	2	4	16	50	28
MINN	5	10	42	37	6
MISS	10	20	55	15	0
MO	2	19	47	31	1
NEBR	17	41	22	19	1
N C	0	0	12	81	7
OHIO	3	13	38	38	8
S C	0	0	16	78	6
S DAK	0	3	35	52	10
TENN	4	2	58	36	0
19 STATE	4	11	37	42	6
PREV WEEK	3	10	34	46	7
PREV YEAR	8	27	46	17	2

VP - VERY POOR P - POOR F - FAIR G - GOOD EX - EXCELLENT

## State Summaries of Weather and Agriculture

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

**ALABAMA:** Rainfall 0.50 in. or less; 1.00 to 3.00 in. local areas. Temperatures 1 to 3° below normal.

Days suitable for fieldwork 5.8. Soil moisture 39% short, 56% adequate, 5% surplus. Dry conditions stressed crops, pastures; additional moisture needed most areas. Corn 92% dented, 93% 1988, 97% avg.; 73% mature, 74% 1988, 82% avg.; 42% harvested, 45% 1988, 38% avg.; 4% fair, 59% good, 37% excellent. Cotton 98% setting bolls, 100% 1988, 100% avg.; 13% bolls opened, 13% 1988, 10% avg.; 8% poor, 58% fair, 34% good. Soybeans 69% blooming, 78% 1988, 82% avg.; 47% setting pods, 48% 1988, 58% avg.; 8% turning color, 12% 1988, 8% avg.; 4% poor, 32% fair, 63% good, 1% excellent. Peanuts 22% fair, 78% good. Sorghum 25% harvested, 22% 1988, 14% avg.; 18% fair, 61% good, 21% excellent. Livestock good to excellent; pastures good to fair. Primary activities: Harvesting corn, sorghum, hay, potatoes; controlling insects, weeds in row crops; applying fungicides to peanuts; planting fall vegetables, repairing, maintaining harvest equipment; routine care of livestock, poultry, catfish.

**ALASKA:** Seasonal, cooler temperatures, occasional rain. Highs 2 to 5° above normal. Lows 1 to 6° below normal. Precipitation 1.03 in. below normal at PMC Butte to 4.80 in. above normal at Big Delta.

Days suitable for Haying 4.0. Topsoil 14% short, 80% adequate, 6% surplus. Subsoil 6% short, 90% adequate, 4% surplus. Barley harvest underway. Prospects average for most crops.

**ARIZONA:** Warmer, drier conditions continued 13th, monsoon minimal. On the 14th, however, it renewed its strength with a large semi-circle of thunderstorms from northwestern area to Mogollon Rim and White Mountains and then south to the south central, southeast portions. Monsoon very active eastern two-thirds 14th to 16th. Scattered storm activity 17th, 18th. Abrupt change, no thunderstorms western half 19th. Rainfall 0.50 to 2.00 in., except very little over extreme west. Temperatures varied 1° below normal to 5° above.

Cotton crop progressed, light to moderate defoliation early fields, west. Fieldwork Yuma County disrupted by heavy rains. Cotton bolls maturing, opening across State. Controls applied for armyworm, white fly, pink boll worms; weed, insect infestations light. Crops good to excellent with 48% of acreage having open bolls. Alfalfa harvest light to moderate; good; light rain damage except Yuma County, considerable damage to cuttings caused by heavy rains. Weeds, insects, disease light to moderate. Hay, roughage supplies mostly adequate. Lemons, watermelons harvested small scale west, preparation of fields for fall vegetables continued; cantaloupe, honeydew melon harvest continued central; watermelons harvested Salt River Valley. Apple harvest, packing continued east; watermelon harvest progressed, cabbage harvest tapering off.

**ARKANSAS:** Temperatures continued slightly below normal. Showers were widely scattered Statewide. Extremes 55°; 98°. Rainfall none to 2.06 in.

Days suitable for fieldwork 7.0. Soil moisture 81% short, 18% adequate, 1% surplus. Rice 2% ripe, 4% 1988, 10% avg. Soybeans 1% yellowing, none 1988, 2% avg. Sorghum 11% mature, 10% 1988.

Main activities: Irrigation of soybeans, cotton; cultivation of soybeans; cotton insecticide applications; rice fungicide applications; applying desiccants to sorghum; mowing weeds; cutting, baling hay; tillage of set-aside land; spraying cattle. Most non-irrigated crops becoming drought stressed. Boll weevils continued heavy in some cotton fields. Few rice fields harvested, other early maturing fields being drained. Rice insecticides being applied against grasshoppers, stink bugs. Soybean acreage being irrigated, other severely stressed. Soybean fungicides being applied for frogeye leaf spot. Desiccants being applied to sorghum crop. Corn yields up, crop maturing rapidly. Table grape harvest complete, juice grape harvest beginning. Hay yields remained good. Pasture, meadow growth deteriorating rapidly due to dry conditions. Livestock good.

**CALIFORNIA:** High pressure producing warmer than normal temperatures accompanied by higher than normal humidities due moisture streaming up from Mexico. High also produced some thunderstorm activity over mountains, especially southern Sierra, no measurable rainfall. Temperatures cooled more normal as low pressure trough developed off northwest coast.

Some delay field activities early due scattered storms northern areas. Rice heading progressed. Only few late, high elevation wheat fields still to harvest. Cotton good growth. Few central fields open bolls. Safflower, sugarbeet, alfalfa seed harvests ongoing. Few early blackeye bean fields harvested. Cutting corn, Sudan silage active. Alfalfa harvest seasonal. Pest controls as needed. Picking apples gaining momentum. Avocado picking slowed; crop set looks below average. Packing figs ongoing. Table grape harvest active, San Joaquin Valley. Drying of grapes for raisins beginning. Wine grape harvest picking up speed, San Joaquin Valley. Picking freestone peaches, plums, nectarines over 85% completed. Clingstone peach harvest active; not much damage storm. Asian, Bartlett pear harvests continued. Prune harvest underway. Picking grapefruit, non-desert areas. Valencia orange harvest slow. Almond harvest begun in most areas. Walnuts treated for pests. Cauliflower supplies Salinas-Watsonville, Santa Maria moderate, generally good quality; fields in Huron District being transplanted. Processing tomato harvest continued Sacramento Valley, Kingsburg-Dinuba areas. Sweet potato harvest underway Selma District. Summer potato harvest continued Perris-Hemet area. Honeydew, mixed melon movement remained active Kingsburg-Dinuba area, Sacramento Valley. Fields desert area show good germination, other fields sprayed for insects. Lettuce, broccoli being planted greater westside. Harvest Salinas, Santa Maria areas continued. Other vegetables harvested included sweet corn, peppers, squash, zucchini, chili peppers. Livestock fair to good, Statewide. Range, pasture conditions poor, water supplies low most valley areas. Range feed supplies exhausted some areas central San Joaquin Valley. Feeding protein, mineral supplements continued.

**COLORADO:** Afternoon showers and thunderstorms predominant along with below normal. Temperatures 60° to 70° mountains, 80° in east. Rainfall 0.10 to 5.20 in.

Days suitable for fieldwork 5.2. Soil moisture 2% very short, 51% short, 45% adequate, 2% surplus. Barley 84% ripe, 70% harvested. Corn 34% dough, 6% dent. Oats 90% turning color, 62% harvested. Dry onions 26% harvested, dry beans 6% cut, summer potatoes 23% harvested. Fall potato good. Sorghum 68% headed, 5% turning color. Spring wheat 91% turning color, 44% harvested. Livestock, range, pasture fair to good.

**FLORIDA:** Rain most areas. Lower amounts Panhandle, Big Bend; many totals under 0.30 in., only isolated locations over 1.00 in. Rain many Peninsula locations; most totals between 1.00 to 2.00 in., local areas over 3.00 in. Temperature slightly below normal north, around normal, Peninsula. Extreme highs mid 90s; lows fell into mid 60s western Panhandle to around 70° elsewhere. Soil moisture mostly adequate Panhandle, adequate Peninsula. Harvest active hay, corn for grain. First peanuts dug. Crop progress soybeans, sugarcane good. Sugarcane planting underway. Panhandle pastures declined, fair to good. Peninsula grazing good to excellent except fair, some southeast coastal areas. Cattle good to excellent. Citrus trees very good to excellent. Frequent rains provided adequate moisture; most irrigation discontinued. Abundant new foliage growth. New crop fruit good growth. Variable sizes several areas, good fruit condition, caretakers very active controlling cover crops, fertilizing, spraying. Summer weather continued over major vegetable producing areas. Land preparation active all areas. Planting active all areas except Homestead. Crops planted include celery, cucumbers, eggplant, peppers, squash, tomatoes.

**GEORGIA:** Rain all areas, over 0.50 in. common. Local totals exceed 3.00 in. Heaviest totals 4.34 in. near Whitesburg in Coweta County. Temperatures 1 to 3° below normal. Extremes 58° Blairsville, Clayton; 97° Albany. Days suitable for fieldwork 5.2. Soil moisture 3% very short, 29% short, 61% adequate, 7% surplus. Corn 29% harvested, 24% 1988, 42% avg.; silage harvest active north. Sorghum grain 17% fair, 73% good, 10% excellent. Peanuts 15% fair, 84% good, 1% excellent; earliest fields digging begun, more digging expected this week, white mold showing. Soybeans beginning to drop leaves. Tobacco 93% harvested, 73% 1988, 83% avg. Watermelons 97% harvested, 96% 1988, 98% avg. Apples 56% fair, 42% good, 2% excellent; harvest gaining momentum, 29% completed, 37% avg. Pecans 13% poor, 35% fair, 50% good, 2% excellent. Pasture 1% poor, 5% fair, 73% good, 21% excellent. Hay 2% poor, 9% fair, 72% good, 17% excellent. Cattle, hogs good to excellent.

**HAWAII:** Strengthening high pressure system north east area increased trades, shower activity. Effect on agriculture mixed. Hot, humid conditions slowed crop progress some areas. Other areas weather more favorable. Temperatures high 60s to low 90s with gusty winds up to 30 mph. Rainfall 0.01 to 6.07 in.

Days suitable for fieldwork 7.0. Papaya production steady. Sugar, pineapple harvesting continuous.

**IDAHO:** Temperatures below normal. Northern areas up to 6° below normal. Scattered showers across State, close to half an inch in east. Most areas received below normal rainfall.

Days suitable for fieldwork 6.0. Harvesting in full swing across State. Potatoes good, 2% harvested. Grain harvesting delayed due to rain,

isolated hail damage. Insect infestations prevailed. Winter wheat 56% harvested, 80% 1988, 62% avg. Spring wheat 41% harvested, 70% 1988, 41% avg. Spring barley 44% harvested, 70% 1988, 45% avg. Oats 43% harvested, 60% 1988, 47% avg. 2nd cutting alfalfa 88% harvested, 90% 1988, 81% avg. Dry bean, onion harvesting underway. Dry peas 67% harvested, 74% 1988, 78% avg. Lentils 55% harvested. Peaches 51% harvested, 69% 1988. Mint 87% harvested. 3rd cutting alfalfa continued. Showers initiated regrowth of rangeland. Cattle moved to late summer rangeland for more forage. Livestock good.

**ILLINOIS:** Temperatures normal to 5° below normal. Scattered showers heaviest northwest, southern.

Days suitable for fieldwork 6.00. Soil moisture 72% short, 26% adequate, 2% surplus. Soybeans turning color 6%, 7% 1988, 7% avg. Alfalfa 3rd crop cut 62%, 65% 1988, 60% avg; 9% poor, 41% fair, 44% good, 6% excellent. Pasture 6% very poor, 17% poor, 52% fair, 23% good, 2% excellent.

**INDIANA:** Temperatures 2 to 5° below normal. Lows upper 50s to mid 60s, highs upper 70s to low 80s. Widely scattered thunderstorms 0.50 to 1.00 in.

Days suitable for fieldwork 5.7. Topsoil 39% short, 61% adequate. Subsoil 20% short, 80% adequate. Corn, soybean good, beginning to decline due to dry weather. Pasture 2% very poor, 5% poor, 34% fair, 54% good, 5% excellent. Tobacco harvest underway.

**IOWA:** Temperatures 1 to 3° below normal. Extremes 44°; 89°. Rainfall none to 1.84 in., average 0.53 in.

Days suitable for fieldwork 6.5. Topsoil 88% short, 12% adequate. Subsoil 100% short. Corn 98% in milk stage, 100% 1988, 98% avg. Third crop alfalfa 55% harvested, 70% 1988, 40% avg. Hay 10% very poor, 41% poor, 37% fair, 11% good, 1% excellent. Livestock good. Pasture 37% very poor, 38% poor, 19% fair, 6% good.

**KANSAS:** Temperatures low 73° northwest to high 76° central, were near to slightly below normal elsewhere. Precipitation most areas; district average low 0.22 in. west central high 1.94 in. south central, 0.75 in. overall.

Days suitable for fieldwork 5.5. Topsoil 62% short, 29% adequate, 9% surplus. Subsoil 55% short, 45% adequate. Corn, sorghum, soybean development generally lags behind last year but on schedule with average for this date. Corn showing drought stress north, northeast where stands mostly non-irrigated. Sorghum heading delayed by hot dry weather north, east, cool temperatures west, southwest. Soybeans showing drought stress central, north central, northeast where some stands shedding blooms. Insect, disease problems generally light but some build-up army worms in sorghum noted. Range, pasture short most areas. Fourth cutting alfalfa underway.

**KENTUCKY:** Daytime high 80s, lows at night lower 60s. Few trace amounts rain, while 1.00 to 2.00 in. common. Average 0.66 to 1.00 in.

Days suitable fieldwork 5.3. Soil moisture 5% very short, 46% short, 46% adequate, 3% surplus. Corn good to excellent, 46% denting, 5% mature. Soybeans 39% fair, 51% good, 10% excellent with 82% blooming or beyond. Tobacco fair to good. Burley 23% cut compared to 8% 1988, 18% avg. Dark tobacco 23% cut. Hay, pastures 83% good or better.

**LOUISIANA:** Temperatures 1 to 4° below normal. Extremes 61°; 96°. Rainfall 0.05 to 0.81 in.

Days suitable for fieldwork 6.0. Soil moisture 4% very short, 36% short, 58% adequate, 2% surplus. Corn mature 93%, 90% 1988, 93% avg.; harvested 44%, 24% 1988, 45% avg. Cotton setting bolls 99%, 99% 1988, 100% avg.; open bolls 1%, 17% 1988, 24% avg.; 4% poor, 74% fair, 22% good. Pest control measures. Hay final cutting 25%, 14% 1988, 31% avg. Rice headed 90%, 87% 1988, 93% avg.; ripe 57%, 39% 1988, 54% avg.; harvested 42%, 25% 1988, 39% avg.; 46% fair, 54% good. Maturing unevenly, early yields were erratic. Yield losses attributed to disease, poor pollination resulting in false grain. Fertilizing, flooding for 2nd crop. Sorghum headed 96%, 93% 1988, 98% avg.; turning color 72%, 51% 1988, 80% avg.; ripe 29%, 17% 1988, 50% avg.; harvested 9%, 4% 1988, 27% avg.; 11% poor, 36% fair, 53% good. Soybeans blooming 87%, 79% 1988, 90% avg.; setting pods 67%, 54% 1988, 72% avg.; leaves turning 1%, 1% 1988, 4% avg.; 2% very poor, 21% poor, 47% fair, 30% good. Applying insecticides for loppers, stinkbugs. Spraying fungicides. Sugarcane planted 6%, 5% 1988, 3% avg.; 13% fair, 74% good, 13% excellent. Spraying for bores, land preparation, planting. Sweet potatoes harvested 10%, 12% 1988, 18% avg.; 37% fair, 63% good. Short soil moisture causing skinning of potatoes while harvesting. Vegetable 7% very poor, 14% poor, 53% fair, 26% good. Pasture 20% fair, 78% good, 2% excellent. Livestock 9% fair, 88% good, 3% excellent.

**MARYLAND & DELAWARE:** **MARYLAND:** Precipitation 1.19 in. Temperature 74°, normal 75°. Extremes 46°; 91°.

Days suitable for fieldwork 3.7. Topsoil 16% short, 58% adequate, 26% surplus. Subsoil 79% adequate, 21% surplus. Field corn good; silked 89%, 95% 1988, 96% avg.; dough stage 64%, 68% 1988, 73% avg.; dent stage 36%, 27% 1988, 36% avg. Soybeans good; bloomed 74%, 80% 1988, 73% avg.; set pods 55%, 51% 1988, 47% avg. Tobacco fair to good; bloomed 61%, 85% 1988, 85% avg. Pasture good to excellent.

**DELAWARE:** Precipitation 4.00 in. Temperature 75°, normal 75°. Extremes 64°; 88°.

Days suitable for fieldwork 2.0. Topsoil 33% adequate, 67% surplus. Subsoil 50% adequate, 50% surplus. Soybeans good; bloomed 76%, 80% 1988, 82% avg.; set pods 28%, 41% 1988, 49% avg. Field corn good; dough stage 70%, 68% 1988, 80% avg.; dent stage 20%, 36% 1988, 52% avg. Pasture good to excellent. All hay supplies short to adequate.

**MICHIGAN:** Temperatures 1 to 3° below normal. Extremes 37°; 86°. Precipitation none to 1.61 in. across State.

Days suitable for fieldwork 6.0. Soil moisture 40% short, 58% adequate, 2% surplus. Corn 15% dough, 45% 1988, 55% avg.; dent 0%, 10% 1988, 10% avg.; mature 0%, 0% 1988, 0% avg.; 0% very poor, 5% poor, 20% fair, 50% good, 25% excellent. Soybeans 95% blooming, 95% 1988, 96% avg.; setting pods 65%, 65% 1988, 70% avg.; 2% very poor, 4% poor, 16% fair, 50% good, 28% excellent. Dry Beans setting pods 45%, 65% 1988, 70% avg.; 7% poor, 33% fair, 45% good, 15% excellent. Winter Wheat 100% harvested, 100% 1988, 100% avg. Major activities: Seeding alfalfa, making hay, combining oats, baling straw, ground preparation for fall wheat planting. Harvest of early apples continues. Vegetable growers harvesting carrots, peppers, tomatoes, melons, cucumbers, celery, sweet corn.

**MINNESOTA:** Temperatures 1 to 2° below normal. Extremes 42°; 90°. Precipitation 0.19 to 1.40 in. Greatest weekly total 3.19 in.

Days suitable for fieldwork 6.0. Topsoil 48% very short, 41% short, 10% adequate, 1% surplus.

Spring wheat 93% combined, 98% 1988, 67% avg. Oats 98% combined, 99% 1988, 89% avg. Barley 98% combined, 99% 1988, 81% avg. Corn 62% in dough, 94% 1988, 65% avg.; 16% denting, 61% 1988, 28% avg.; 0% mature, 3% 1988, 1% avg. Soybeans 94% setting pods, 99% 1988, 96% avg. Sweet corn 54% harvested, 66% 1988, 50% avg. Potatoes 3% harvested, 9% 1988, 8% avg. Hay, grain 31% stubble plowed, 46% 1988, 26% avg. Corn 7% very poor, 14% poor 34% fair, 40% good, 5% excellent. Soybeans 5% very poor, 10% poor, 42% fair, 37% good, 6% excellent.

**MISSISSIPPI:** Cool, dry. Temperatures 4° below normal. Extremes 51°; 95°. Rainfall 0.32 in., 0.45 in. below normal.

Days suitable 5.8, 5.4 1988, 5.3 avg. Soil moisture 5% very short, 50% short, 40% adequate, 5% surplus. Corn good; 9% harvested, 3% 1988, 12% avg.; silage 41% harvested, 61% 1988, 62% avg. Cotton fair; 3% open bolls, 8% 1988, 18% avg. Hay 66% harvested, 68% 1988, 73% avg. Peaches 96% harvested, 96% 1988, 96% avg. Rice good; 79% headed, 74% 1988, 88% avg.; harvest just started. Sorghum good; 2% harvested, 3% 1988, 8% avg.; silage 37% harvested, 35% 1988, 36% avg. Soybeans fair; 51% podding, 49% 1988, 52% avg. Sweet potato harvest beginning. Pastures, livestock good. Activities: Haying, irrigating, cutting silage, applying chemicals, draining rice fields.

**MISSOURI:** Temperatures 3 to 7° below normal with southwest coolest. Rainfall widespread, varied mostly 0.25 to 2.00 in. west central wettest, northern, southeast driest.

Days suitable for fieldwork 6.0. Topsoil 76% short, 24% adequate. Subsoil moisture 74% short, 26% adequate. Crop conditions stable. Corn dent stage ranges 49% northeast to 93% southeast. Corn mature varies 3% northeast to 30% southeast. Soybeans setting pods 40% southwest to 83% east central. Soybeans turning color 4%, 6% 1988, 3% avg. Grain sorghum heading ranges 74% southwest to 100% southeast, avg. 92%. Grain sorghum coloring varies 10% central to 75% southeast. Alfalfa third cutting 86%, 77% 1988, 74% avg. Pasture 10% very poor, 22% poor, 36% fair, 30% good, 2% excellent. Livestock water supply 15% critically short, 26% short, 59% adequate.

**MONTANA:** Showers across State. Northeast, southeast showers widely scattered, very light. Showers north central, central heavy. Temperatures 1 to 3° above normal east, 1 to 3° below rest of State.

Days suitable fieldwork 5.5. Topsoil 47% short, 51% adequate, 2% surplus. Subsoil 45% short, 52% adequate, 3% surplus. Winter wheat 1% very poor, 5% poor, 20% fair, 53% good, 21% excellent. Spring wheat 5% very poor, 9% poor, 26% fair, 46% good, 14% excellent. Barley 2% very poor, 6% poor, 20% fair, 53% good, 19% excellent; harvested 31%, 77% 1988, 53% avg. Oats 4% very poor, 8% poor, 24% fair, 50% good, 14% excellent; harvested 33%, 77% 1988, 48% avg. Pasture, range feed 2% very poor, 8% poor, 29% fair, 50% good, 11% excellent. Second cutting alfalfa hay harvested 62%, 78% 1988, 64% avg. Other hay cut 94%, 91% 1988, 92% avg.

**NEBRASKA:** Temperatures 1 to 4° below normal. Extremes 50°; 96°. Scattered thunderstorms produced rainfall 0.10 to 2.00 in. locally.

Days suitable for fieldwork 6.2. Topsoil 71% short, 27% adequate, 2% surplus. Subsoil 84% short, 16% adequate. Alfalfa hay 13% very poor, 28% poor, 20% fair, 39% good. 65% third cutting, 66% 1988, 51% avg. Corn improved as many of the poorer dryland fields were cut for silage. Sorghum also cut for silage. Many inquiries about

making soybean silage, hay. Treating for corn bores, grasshoppers in east. Stressed sorghum fields in east were partially headed, with reminder in boot stage. Soybean plants aborting pods in northeast from dryness. Main activities: Cutting hay; irrigating; weed, insect control; attending fairs.

**NEVADA:** Mostly warm, dry. Some isolated thunderstorm activity evident both early, late no widespread rain. Precipitation heaviest east. Driest area west central, northwest. Temperatures as much as 5° above normal.

Melon harvest starting. Ranges continue to deteriorate slowly.

**NEW ENGLAND:** Precipitation 1.50 to 1.75 in. coastal Massachusetts, 1.00 to 1.50 in. remainder Massachusetts, Rhode Island, northern Maine, 0.25 to 1.00 in. remainder Maine, New Hampshire, Vermont, interior Connecticut, less than 0.25 in. coastal Connecticut. Temperatures mid 60s near Canadian border to mid 70s south coast. Temperatures slightly above normal north, near normal south.

Days suitable for fieldwork 5.5. Fieldwork progress 4.0 days behind south; 1.5 days behind north. Soil moisture north 92% adequate, 8% surplus; south 50% adequate, 50% surplus. Grazing availability north 27% short, 70% adequate, 3% surplus; south 11% short, 67% adequate, 22% surplus. Maine, Connecticut River Valley potato good. Maine oat fair to good. Field corn fair to excellent. Sweet corn fair to excellent; 52% harvested, 53% 1988, 48% avg. Shade tobacco 50% harvested; good. Outdoor tobacco 35% harvested; fair to good. Second crop hay 61% cut, 69% 1988, 69% avg.; good. Apples 6% harvested; good. Peaches 37% harvested; good to excellent. Pear good. Raspberry good. Blueberries 63% picked; good. Fruit sizing: Apples medium, raspberries, blueberries medium to large. Cranberry good. Major farm activities: Haying, vegetable harvesting, pest control.

**NEW JERSEY:** Temperatures above normal. Extremes 54°; 89°. Rainfall 0.62 in. north, 0.28 in. central, 1.51 in. south. Heaviest 24-hour total 1.39 in. on 18th, 19th. Estimated soil moisture percent field capacity averaged 88% north, 79% central, 87% south. Four inch soil temperatures averaged 70° north, 73° central, 74° south.

Soil moisture ample to excessive. Late summer vegetable harvest active. Fall vegetable planting about complete. Irish potato digging steady as soil conditions permit. Peach harvest active. Summer apple marketing steady. Corn silage making began. Third cutting hay progressed as weather conditions permitted. Pasture growth continued good.

**NEW MEXICO:** Temperatures near normal. Showers, thundershowers occurred Statewide.

Days suitable for fieldwork 6.3. Soil moisture 69% short, 31% adequate. Cotton setting bolls, 100%, 10% bolls open; varied conditions due to scattered amounts of rain; 35% fair, 45% good, 20% excellent. Cattle 75% fair, 25% good. Sheep 92% fair, 8% good. Ranges, pastures 25% poor, 75% fair.

**NEW YORK:** Temperatures a few degrees above normal in western, northern areas, below normal elsewhere. Rain was plentiful with most areas receiving 0.50 to 1.00 in.

Days suitable for fieldwork 5.6. Soil moisture short to mostly adequate, except Long Island where heavy rains fell during the week. Pastures fair to good, hay good, corn fair to good. Second

cutting of alfalfa 70% cut, 77% 1987, 74% avg. Oats 64% harvested, 63% 1987, 55% avg. Wheat harvest was completed, slightly ahead of the average progress of 96% finished. Grapes in Chautaugua - Erie region good condition although some losses are evident due to black rot. Apples, pears good, continue to size nicely. Processing green beans 50% harvested. Heavy rains damaged crops on Long Island. Orange county onion harvest continued.

**NORTH CAROLINA:** Temperatures 1° to 3° below normal across State. Extremes 54°; 92°. Precipitation 0.52 to 4.01 in.

Days suitable for fieldwork 4.3. Soil moisture 11% short, 58% adequate, 31% surplus. Pasture 11% fair, 82% good, 7% excellent. Livestock feed from pasture 80%. Crop conditions: tobacco 5% poor, 27% fair, 68% good; sweet potatoes 8% fair, 89% good, 3% excellent; apples 15% poor, 30% fair, 55% good; truck crops 2% very poor, 4% poor, 22% fair, 70% good, 2% excellent; peanuts 13% fair, 87% good; sorghum 12% fair, 80% good, 8% excellent; hay 18% fair, 78% good, 4% excellent. Hay second cutting 67% complete, third cutting 34% completed. Hay, roughage 1% short, 85% adequate, 14% surplus. Harvesting completed: peaches 95%, 85% 1988, 91% avg.; Flue-cured tobacco 47%, 43% 1988, 42% avg.; burley tobacco less than 5%, 5% 1988, 5% avg.; corn silage 24%, 24% 1988, 28% avg.; apples 5%, 7% 1988, 4% avg. Major activities: Topping, spraying, harvesting tobacco; cutting hay. Other activities: Spraying crops; harvesting peaches, truck crops, corn silage; marketing tobacco, vegetables, peaches; preparing land for small grain planting; tending livestock; general farm maintenance. Excess moisture has adversely affected tobacco, soybeans, vegetables, sweet potatoes, hay.

**NORTH DAKOTA:** Temperatures average to 3° above. Precipitation 0.24 in. to 1.74 in. State below average for season, -0.94 in. southeast to -4.24 in. east central.

Days suitable for fieldwork 5.7. Topsoil improved central, east, 36% very short, 45% short, 19% adequate; 5 year average 21% very short, 29% short, 46% adequate, 4% surplus. Subsoil well below average, 68% very short, 32% short; average 25% very short, 25% short, 50% adequate. Dry conditions matured small grain rapidly, harvest ahead of schedule, nearly complete. Grain quality suffered from drought. Rainfall will benefit sugarbeets, pasture, corn, beans. Row crops drought stressed. Sunflower 8% very poor, 20% poor, 59% fair, 13% good; dry edible beans 13%, 47%, 36%, 4%; flax 10%, 32%, 58%, none; potatoes none, 95%, 5%, none. Row crop progress near average. Sunflower 30% flowers dried or beyond; dry edible beans 45% leaves yellowing or beyond; flax 15% swathed or combined; potatoes below average vines killed, not dug 6%. Pasture 17% very poor, 53% poor, 28% fair, 2% good.

**OHIO:** High temperatures upper 70s to mid 80s. Low temperatures high 50s to low 60s, near normal. Temperatures upper 60s to low 70s, 2 to 4° below normal. Rainfall 0.12 in. in Columbus to 1.85 in. in Toledo, with over 1.00 in. in northwest, southwest. Base 50 growing degree days accumulated less than 140 in north, near 160 south.

Days suitable for fieldwork 6.4. Soil moisture 37% short, 58% adequate, 5% surplus. Activities: Making second, third cuts of hay, topdressing hay crops, seeding alfalfa, preparing for canola planting. Burley tobacco harvest began in south. Corn fair to good, with some stress from short moisture. Soil compaction, nitrogen deficiency also stressed some corn. Soybeans fair to good; some stress from dry weather. Pasture, potatoes

fair to good. Hay fair to good. Prospects for tomato harvest lowered; crops affected by earlier surplus moisture, slow ripening, mold, blossom end rot. Brown rot on peaches in northwest.

**OKLAHOMA:** Temperatures 5° below normal north central to 2° below normal east central. Precipitation 0.10 in. west central to 3.52 in. south central.

Days suitable for fieldwork 4.6. Topsoil 10% short, 65% adequate, 25% surplus. Subsoil 5% short, 95% adequate. Wheat 100% harvested, 100% 1988, 100% avg.; many producers will seed 1990 crop when fields dry. Cotton 20% poor, 60% fair, 20% good; 65% setting bolls, 95% 1988, 80% avg.; none open bolls, none 1988, none avg. Sorghum 2% fair, 98% good; 70% heading, 70% 1988, 75% avg.; 20% coloring, 40% 1988, 30% avg. Few producers began harvest. Soybeans 40% setting pods, 40% 1988, 50% avg. Peanuts 65% setting pods, 80% 1988, 85% avg. Corn 1% harvest, 3% 1988, 3% avg. Pastures good. Cattle good; marketings stable, prices slightly higher than preceding week.

**OREGON:** Light precipitation coast, west, south central areas. Remainder of State dry. Temperatures normal to 3° above west of Cascades; eastside normal to 3° below.

Soil moisture 88% short, 12% adequate. Barley 61% harvested, 81% 1988, 80% avg. Grain yields average to below Columbia Basin, quality less than ideal. Grain harvest underway eastern high country, winding down west. Grass seed, sugarbeet seed harvests winding down Willamette Valley. Mint harvest in full swing, hop harvest started Willamette Valley, also Red clover swathed. Haying activities continued most areas. Bartlett pear harvest continued Jackson, Douglas Counties; underway Willamette Valley, Hood River. Gravenstein apples picked Hood River, Willamette Valley. Peach, blueberry, Evergreen blackberry harvests winding down west. Cranberry plant vigor good; fruit color, size good south coast. Potato digging continued Hermiston-Boardman. Snap bean harvest passed peak; sweet corn, table beet harvest started Willamette Valley; also harvested squash, cucumbers, lifted the earliest onions. Cool weather good for some vegetables, but slowed progress of warm weather crops. Livestock good to excellent. Cattle turned on to hay aftermath northeast. Most yearlings contracted, some delivered southeast. Range fair, dry east. Pastures fair to good west.

**PENNSYLVANIA:** Temperatures warmed to near normal. Rainfall light over western areas. Heavy rain fell across central, south central areas. Temperature 69°, 1° below normal. Extremes 48°; 89°. Precipitation 0.74 in., 0.10 in. below normal.

Days suitable for fieldwork 5.0. Soil moisture 40% short, 56% adequate, 4% surplus. Corn 75% silk, 88% 1988, 95% avg.; 24% dough, 36% 1988, 54% avg.; 1% dent, 4% 1988, 12% avg.; ensilage corn harvested none complete, 9% 1988. Corn 3% very poor, 12% poor, 22% fair, 38% good, 25% excellent. Soybean 1% very poor, 4% poor, 26% fair, 50% good, 19% excellent. Wheat harvest 99% complete; 100% 1988. Oat harvest 75% complete, 90% 1988. Tobacco harvest 10% complete, 18% 1988. Potato harvest 23% complete, 23% 1988. Second cutting alfalfa 76% complete, 90% 1988. Third cutting alfalfa 26% complete, 44% 1988. Fourth cutting alfalfa none complete, 5% 1988. Second cutting clover-timothy 54% complete, 74% 1988. Quality of hay made good to fair. Feed from pastures average. Apple harvest 16% complete, 16% 1988. Peach harvest 32% complete, 47% 1988. Fall plowing 13% complete, 17% 1988. Activities: Harvesting hay, haylage, wheat, oats, potatoes,

apples, peaches, vegetables, fall plowing, weed control; maintaining machinery; caring for livestock.

**PUERTO RICO:** Rainfall 1.77 in. was 0.07 in. above normal. Rainfall 5.17 in. at Toa Baja, 4.99 in. at Pico Del Este-Luquillo, 3.88 in. at San Juan City. Temperature 82° minus 0.4 total rainfall 2.38 plus 1.10. Temperature 81° on Coast, 74 to 77° in Interior, mean temperature 68° at Pico Del Este-Luquillo to 84° at Roosevelt Roads N.S. Extremes 61°; 95°.

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

Days suitable for fieldwork 5.4. Soil moisture 25% short, 70% adequate, 5% surplus. Cotton 3% fair, 94% good, 3% excellent; 93% setting bolls, 86% 1988, 95% avg.; 7% open bolls, 2% 1988, 9% avg. Soybeans 16% fair, 78% good, 6% excellent; 66% blooming, 78% 1988, 77% avg.; 37% setting pods, 38% 1988, 40% avg.; 3% leaves turning, 2% 1988, 1% avg. Tobacco good; 66% harvested, 62% 1988, 70% avg.; 4% stalks destroyed, 4% 1988, 7% avg. Corn good; 96% dough stage, 93% 1988, 98% avg.; 72% matured, 47% 1988, 73% avg.; 12% harvested, 9% 1988, 17% avg. Sorghum good; 17% harvested, 9% 1988, 11% avg. Watermelons good; 89% harvested, 91% 1988, 93% avg. Peaches fair to good; 94% harvested, 92% 1988, 94% avg. Peanuts good. Hay, pastures good.

**SOUTH DAKOTA:** Temperatures 2° below normal to 5° above normal. Extremes 44°; 100°. Growing season precipitation generally below normal; 2.76 in. above normal to 6.14 in. below normal. Weekly precipitation scattered; maximum 3.42 in.

Days suitable for fieldwork 5.7. Topsoil 48% critically short, 33% short, 18% adequate, 1% surplus. Subsoil 61% critically short, 34% short, 5% adequate. Corn, sorghum fair to good, soybean good to fair. Major activities working stubble, haying, yard work, fencing.

**TENNESSEE:** High pressure through 16th kept State dry. Weak cold front 17th caused scattered showers through 20th. Below normal precipitation most areas, especially west. Temperatures slightly below normal statewide.

Days suitable for fieldwork 5.8. Soil moisture 4% very short, 45% short, 51% adequate. Corn 88% dough, 85% 1988, 94% avg.; 52% dent, 67% 1988, 70% avg.; 12% mature, 15% 1988, 22% avg.; 2% poor, 12% fair, 65% good, 21% excellent. Tobacco 70% topped, 62% 1988, 70% avg. Burley 20% harvested, 12% 1988, 19% avg. Dark fired 22% harvested, 15% 1988, 19% avg. Dark air-cured 22% harvested, 12% 1988, 17% avg. Dry weather affecting soybean condition. Record corn yield expected.

**TEXAS:** Unseasonably mild, although humid. Few thunderstorms formed 14th, 15th. Midweek warmer air flowing northward from Gulf. Panhandle remained mild. Scattered showers fell across State. Upper ridge reestablished, warmer air prevailed rest week. Stream moisture developed over weekend west, thunderstorm activity took place.

**Crops:** Corn harvest moved ahead, minimal delays in Blacklands. Harvest continued wind down along Upper Coast portions Central. Yields Blacklands good, as harvest continued. Fields High Plains continued enter dent stage. Progress good under steady irrigation. Corn 50% harvested, 59% 1988, 50% avg. Grain sorghum harvest also continued few delays throughout central, Blacklands, Cross Timbers, Hill Country. Fields maturing Low Plains some harvest beginning. Rain across High Plains helped conditions; however, dryland fields could use more. Cooler temperatures slowed maturing

some. Headworm populations increasing scattered fields. Fields beginning mature. Grain sorghum mature 59%, 56% 1988, 57% avg.; harvested 48%, 54% 1988, 53% avg. Cotton harvest continued down Coastal Bend, Rio Grande Valley. Bolls opening Central, Hill Country. Conditions Trans-Pecos below normal as bolls continued open. Defoliating activities occurring Blacklands. Spraying boll weevils continuing. Plants in Plains continued load up with fruit; despite slowing some from cooler temperatures. Rains helped; however, dryland fields use more. Boll weevil activity remained high many fields, spraying continued. Harvested 8%, 10% 1988, 9% avg. Squaring 98%, 100% 1988, 99% avg. Rice harvest continued along Upper Coast some rain delays. Yields down some fields had heavy rains on them. Rice 54% harvested, 51% 1988, 60% avg. Peanut fields continued look good over most State. Diseases increased where humid conditions existed. Irrigation continued steady dryer areas. The crop set good Cross Timers. Many dryland fields still benefit from additional moisture. Soybeans harvest early varieties continued along Upper Coast was beginning portions northeast. Rain delays occurred early week. Plants setting pods Plains. Most stands good. Irrigation continued. Other crops: Peanuts harvested 0%, 0% 1988, 1% avg. Soybeans harvested 1%, 3% 1988, 1% avg.

**Commercial Vegetables:** In Rio Grande Valley, land preparations planting operations continued. Irrigation steady planted fields. In eastern area, sweet potato harvest continued, watermelon harvest beginning wind down. In the Trans-Pecos, onion harvest winding down, cantaloupe harvest continued. Peppers making good progress. In the High Plains, onion, potato harvest virtually completed. Harvest many other vegetables continued with slight delays. Pecans in shell hardening stage many parts State last week. Insect continued problem over State producers were spraying. This years crop vary widely across State.

**Range and Livestock:** Ranges pastures showing some improvement much State after scattered rain past couple of weeks. Additional hay cuttings occur east where extremely good growth occurred with all rain this year. Livestock movement slowed some; however, market prices remained steady. Producers continued work sheep goats hill country.

**UTAH:** Temperatures 3° above normal in northern half, 1° above normal in southern half. Precipitation was mostly light except moderate south central, southeast.

Days suitable for fieldwork 6.2. Soil moisture 98% short, 2% adequate. Harvest small grains, alfalfa continued. Winter wheat harvest 93% completed, 97% 1988, 85% avg. Spring wheat 73% harvested, 91% 1988, 69% avg. Barley 78% harvested, 94% 1988, 77% avg. Oats for grain 56% harvested, 68% 1988, 57% avg. Oats for hay 93% harvested, 97% 1988, 88% avg. Second cutting alfalfa hay 99% completed, 96% 1988, 94% avg.; third cutting 18% completed, 21% 1988, 9% avg. Corn in dough stage 42%, 48% 1988, 47% avg. Baling, storing straw underway. Winter range prospects dim; cattle thin due to below average range feed. Apple, pear crop prospects appear good, peach crop prospects reported fair.

**VIRGINIA:** Temperatures 3° below normal, 50 to 94°. Rainfall above normal, trace to 5.60 in. Southeast unofficial high was 12.00 in.

Days suitable for fieldwork 3.7. Topsoil 3% short, 53% adequate, 44% surplus. Corn 97% silked, 81% 1988, 85% avg.; 70% at or beyond dough stage, 50% 1988, 64% avg.; 50% at or beyond dent

stage, 30% 1988, 43% avg.; 22% mature, 1% 1988, 17% avg. Corn silage 14% harvested, 1% 1988, 6% avg. Soybeans 86% bloomed, 55% 1988, 64% avg.; 58% set pods, 29% 1988, 40% avg. Peach harvest 90% complete. Apples 21% harvested, 12% avg. Flue-cured tobacco harvest 23% complete, 22% 1988, 25% avg. Fire-cured harvest 25% complete, 30% 1988, 33% avg. Sun-cured harvest underway. Burley tobacco harvest started. Corn 9% fair, 55% good, 36% excellent. Soybeans, tobacco 10% poor, 26% fair, 43% good, 21% excellent. Pastures 6% fair, 44% good, 50% excellent. Alfalfa 4% fair, 61% good, 35% excellent. Other hay 5% fair, 50% good, 45% excellent. Peanuts good.

**WASHINGTON:** Temperatures 6° below normal to 5° above normal, east; 5° below normal to 4° above normal, west. Precipitation none to 0.53 in., east; none to 0.53 in., west.

Days suitable for fieldwork, 6.3. Soil moisture 40% short, 60% adequate. Range, pasture 25% short, 75% adequate. Hay, other roughage 5% short, 85% adequate, 10% surplus. Grain harvest continued except in areas with rain, which stopped the harvest activities. Winter wheat harvested 80%, 82% 1988, 84% avg. Spring wheat harvested 72%, 70% 1988, 72% avg. Barley harvested 70%, 85% 1988, 82% avg. Other crops harvested: Potato 13%, 16% 1988, 17% avg.; second cutting alfalfa hay 100%, 95% 1988, 95% avg.; third cutting alfalfa hay 40%, 39% 1988, 36% avg. Major activities: Cutting hay, irrigation, harvest of peaches, nectarines, Bartlett pears, blueberries, raspberries, vegetable seeds, cauliflower, broccoli, carrots, leafy vegetables, green peas, mint, dry peas, lentils, sweet corn.

**WEST VIRGINIA:** Temperature 70°, normal to 2° below normal. Extremes 54° Weston; 90° Creston. Precipitation 1.70 in.; 0.03 to 1.67 in. above normal.

Days suitable for fieldwork 4.2. Soil moisture 4% short, 80% adequate, 16% surplus. Corn excellent to good; 80% silked, 27% dough stage. Wheat 100% harvested. Oats good to fair; 94% ripe, 79% harvested. Tobacco poor to fair; 46% topped. Apples fair. Peaches poor. Hay good to fair; 1st cut 92% complete, 2nd cut 40% complete. Farm activities: Haying, oats harvest, marketing cattle, topping tobacco, clipping pastures.

**WISCONSIN:** Temperature 66°, 2° below normal. Extremes 35°; 88°. Precipitation 0.20 to 1.50.

Days suitable for fieldwork 5.5. Soil moisture 44% short, 56% adequate. Pasture 68% of normal, 34% 1988, 71% 5-year avg. General condition of crops 1% poor, 13% fair, 77% good, 9% excellent. Soybean 1% poor, 2% fair, 76% good, 21% excellent; 3% turned, 9% 1988, 0% avg. Corn 1% poor, 7% fair, 68% good, 24% excellent; dough 43%, 64% 1988, 56% avg.; dent 11%, 34% 1988, 19% avg. Oats 80% harvested, 86% 1988, 82% avg. Second cut hay 86% completed, 86% 1988, 85% avg. Third cut hay 13% completed, 26% 1988, 18% avg. Winter wheat harvest 95% completed, 99% 1988, 96% avg.

**WYOMING:** Temperatures mostly above normal. Rainfall generally above normal except northeast.

Days suitable for fieldwork 6.0. Topsoil 69% short, 31% adequate. Winter wheat 10% mature, 0% 1988, 5% avg.; 90% harvested, 100% 1988, 95% avg. Barley 40% mature, 20% 1988, 30% avg.; 60% harvested, 80% 1988, 70% avg. Spring wheat 40% mature, 10% 1988, 25% avg.; 60% harvested, 90% 1988, 75% avg. Oats 45% mature, 35% 1988, 45% avg.; 55% harvested, 65% 1988, 55% avg. Dry beans 90% setting pods, 90% 1988, 90% avg; 15% leaves turning color, 60% 1988, 45% avg. Corn 75%

(Continued to back cover)

## International Weather and Crop Summary

August 13-19, 1989

### HIGHLIGHTS

**USSR** ... In Western USSR, warm weather and abundant sunshine help harvesting. Dry weather continues to stress filling corn in the southern Ukraine. In the New Lands, warm, dry weather favors spring grain maturation in Kazakhstan and West Siberia.

**EUROPE** ... Warm and mostly dry weather favors late harvest progress in the east.

**SOUTH ASIA** ... Showers bring relief to reproductive crops in parts of the northwest. Variable rain elsewhere benefits reproductive to filling crops.

**EASTERN ASIA** ... Hot weather stresses crops in the south. Heavy rain causes flooding in the west and in Japan.

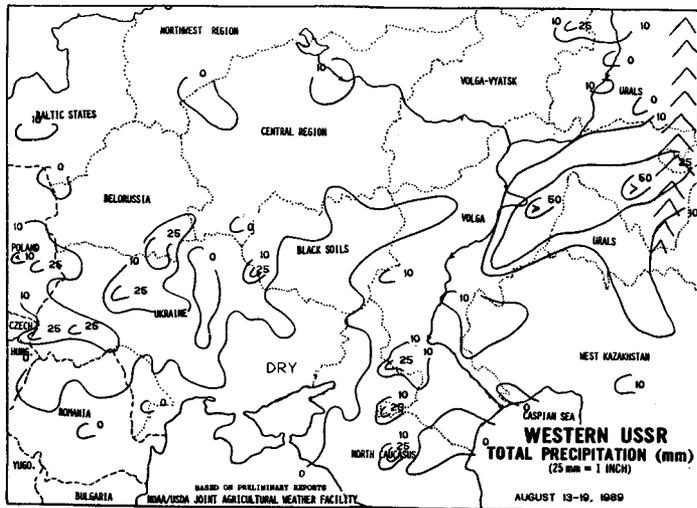
**SOUTHEAST ASIA** ... Highly variable rainfall covers Thailand's rainfed grain areas.

**SOUTH AMERICA** ... Mild weather and light showers promote wheat growth in Argentina. Warm, dry weather prevails in south-central Brazil.

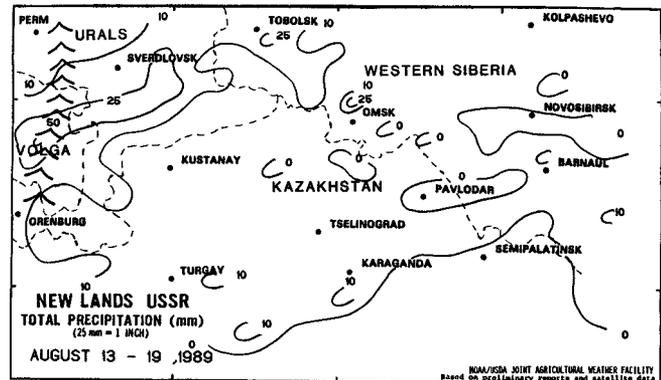
**AUSTRALIA** ... Heavy rain keeps soil moisture levels high across crop areas in Western Australia.

**CANADA** ... Late-week rain in Manitoba hampers spring wheat harvesting and possibly causes some lodging.

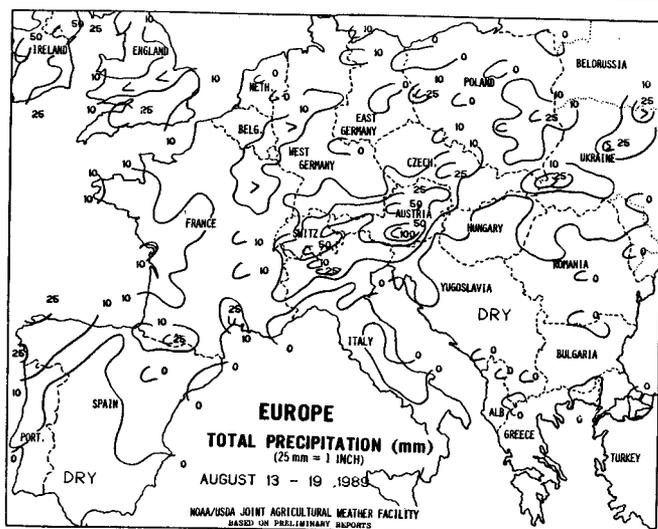
**MEXICO** ... Periodic showers cover most crop areas except for the moisture-deficient northeast.



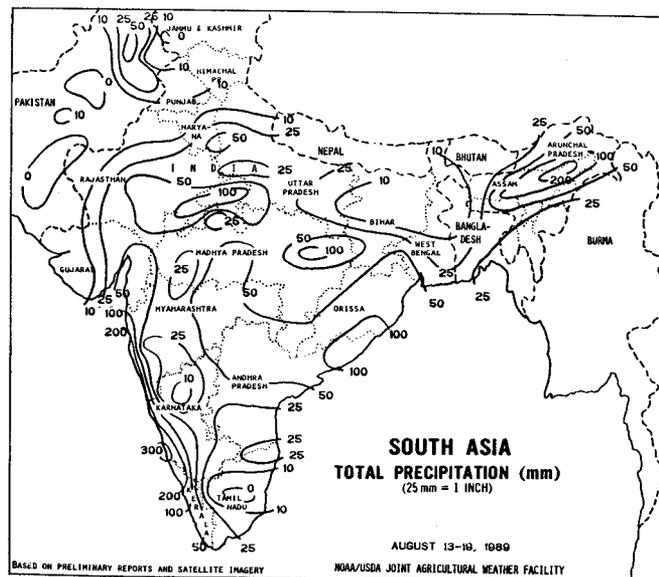
**WESTERN USSR** ... In Western USSR, unseasonably warm, dry weather covered most of the region. Winter and spring grain harvests continued, with reports indicating 51 percent of grains and pulses (excluding corn) harvested by August 14, compared with 54 percent last year. Warm weather and abundant sunshine this past week favored an accelerated harvest pace. In general, most locations received less than 10mm of precipitation. Dry weather over the southern Ukraine continued to stress corn in the filling stage. Weekly average temperatures were 2-4 degrees Celsius (C) above normal over most of the region except the North Caucasus and the Volga, where temperatures were near normal. Fieldwork in preparation for planting 1990 winter crops began in the north, where the optimum planting time is late August. Planting usually progresses southward during September.



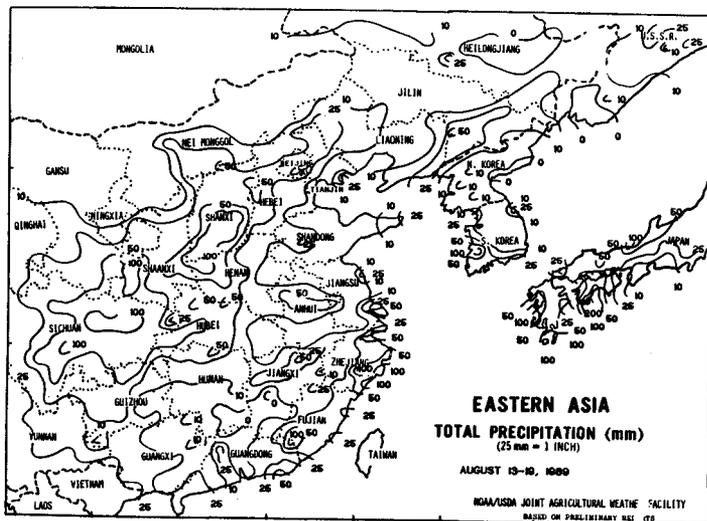
In the New Lands, dry weather covered most crop areas except for a narrow band of significant precipitation (20-68mm), which stretched northeastward from the southern Urals, through the eastern portion of the upper Volga, into the eastern Urals. The rain that covered these areas slowed spring grain maturation and delayed early harvesting. Unseasonably warm, dry weather over Kazakhstan and the western half of West Siberia favored spring grain maturation and helped early harvest activities. Continued dry weather in the extreme east stressed filling spring grains.



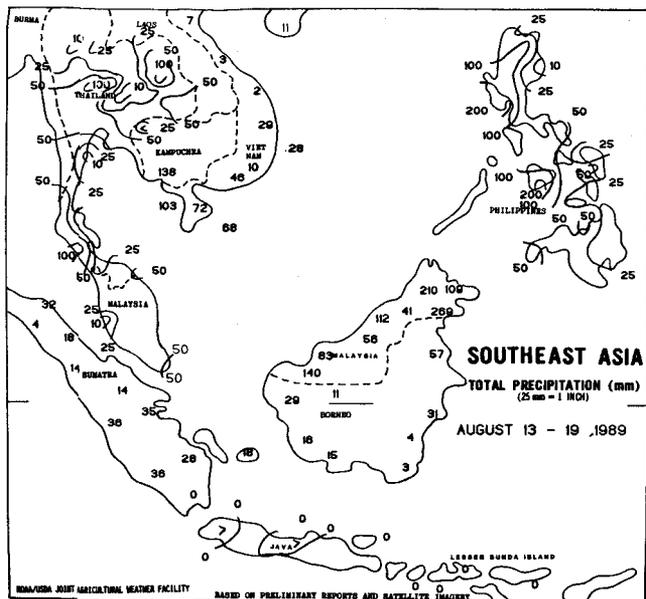
**EUROPE** ... Mostly dry and unseasonably warm (average temperatures 3-6 degrees C above normal) weather covered much of eastern Europe, allowing rapid progress in winter grains harvest which is near completion in some areas. Scattered early week showers (5-30mm, with isolated amounts in excess of 50mm) over sections of Czechoslovakia, Austria, and southern Poland caused temporary fieldwork delays but benefited filling summer crops. Dryness in parts of the eastern Balkans caused late season moisture stress in summer crops and continued a trend of below-normal rainfall that began in early July. In the west, light to moderate rain (5-20mm, with scattered amounts in excess of 25mm) fell over most crop areas, further improving soil moisture levels for summer crops. Most southern crop areas remained seasonably dry. Mean weekly temperatures were above normal over much of the continent.



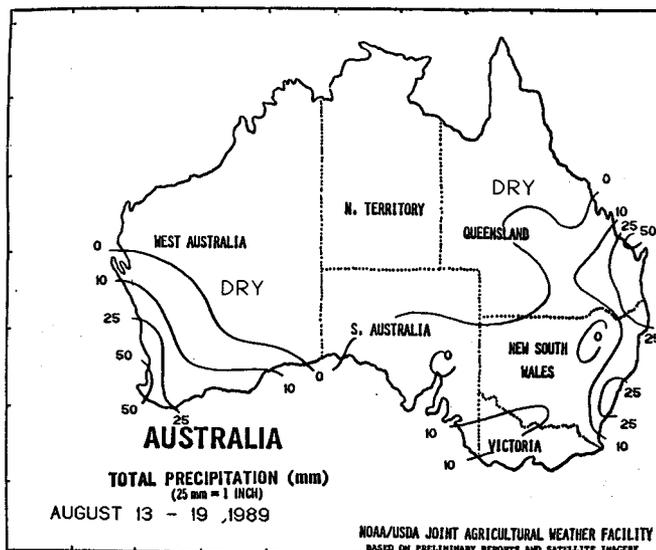
**SOUTH ASIA** ... Much needed rain (25-50mm or more) covered a large area of northwestern India from eastern Gujarat to western Uttar Pradesh, benefiting reproductive crops following 2 weeks or more of drier-than-normal weather. Moderate rain (24-99mm) also benefited much of northern Pakistan and the northern half of India's Punjab state, but minimal rain (10mm or less) persisted over southern Punjab and Haryana. Rainfall elsewhere across India was highly variable and only the southwest coast and local areas of the interior received more than 100mm. Rainfall continued below normal in the east from eastern Uttar Pradesh and northern Bihar eastward although local areas of Assam received heavy rain (100-200mm or more), boosting irrigation reserves. Most summer crops are in the reproductive to filling stages of development.



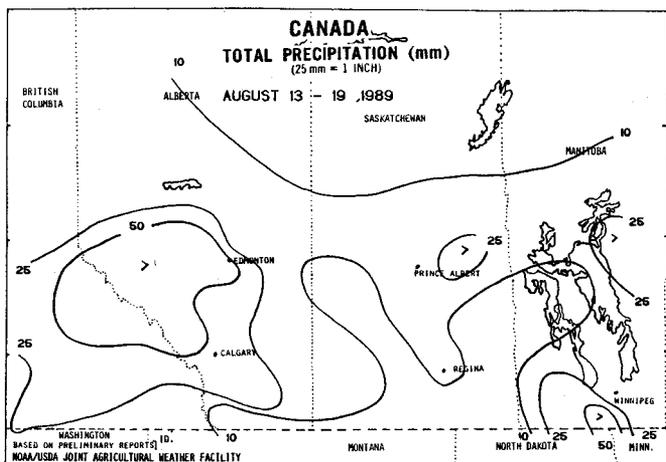
**EASTERN ASIA** ... Unseasonably hot weather (maximum temperatures 37-40 degrees C) stressed late season rice across much of southern China. Scattered showers (5-25mm, with isolated amounts in excess of 25mm) provided limited relief by week's end although soil moisture in many areas remains low due to below-normal rainfall since early July. Dryness also stressed summer crops across sections of southern Manchuria and northern sections of the North China Plain. A midweek frontal system brought scattered rain (5-20mm, with isolated amounts in excess of 25mm) to sections of the northeast, but areal coverage was spotty. In contrast, heavy rain (30-80mm, with isolated rainfall in excess of 100mm) fell over northwestern and western crop areas, possibly causing localized flooding in sections of Sichuan, Shanxi, and Shaanxi. Heavy rain (30-60mm) also fell across much of Zhejiang due to a weak tropical disturbance. In Japan, heavy rain (75-130mm) from Tropical Storms Nancy and Owen caused continued flooding in sections of eastern Hokkaido.



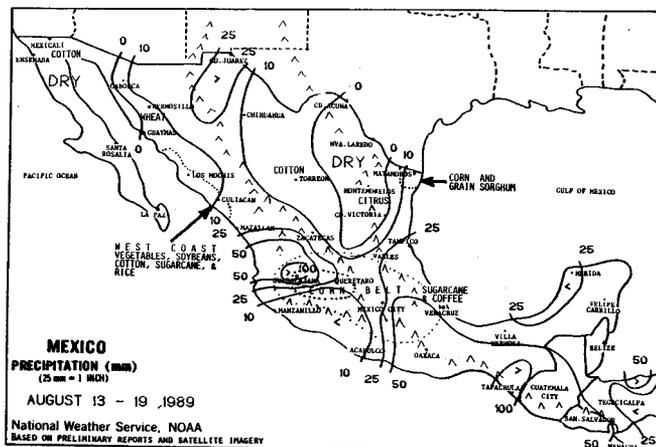
**SOUTHEAST ASIA** ... Rainfall across Thailand was highly variable, with parts of the central, northern, and northwestern rainfed rice regions receiving less than 25mm of rain. Pockets of heavier rain (25-50mm or more) occurred elsewhere, including south-central areas near Bangkok and, for the second week, most of the western corn belt, benefiting immature crops. In the Philippines, excessive showers (151-283mm) persisted over southwestern Luzon, causing more flooding. Moderate to heavy rain (50-100mm or more) benefited immature grains elsewhere in Luzon and southward to northern Mindanao although some local flooding likely occurred in the west-central islands.



**AUSTRALIA** ... A strong frontal system brought wind and heavy rain (20-50mm, with isolated amounts in excess of 50mm) to nearly all winter grain areas of Western Australia, maintaining high soil moisture levels. In the east, scattered light to moderate showers (5-20mm) fell over growing areas of southern Queensland, New South Wales, and Victoria. Below-normal temperatures kept most winter grains semidormant. Scattered showers (20-70mm) across coastal areas of southeastern Queensland and extreme northeastern New South Wales caused delays in sugarcane harvest. Mean weekly temperatures across Australia were below normal in the east and near normal in the west.



**CANADA** ... Late-week showers (10-25mm or more) covered most crop regions of Manitoba, slowing spring wheat harvesting. Local reports of heavy thunderstorms across southern Manitoba suggest some lodging of mature crops occurred. Rainfall averaged 10mm or less over most of eastern and southern Saskatchewan, causing minor harvest delays. Moderate rain (10-25mm or more) benefited immature crops in northern and western Saskatchewan and most of Alberta. Temperatures were variable during the week but generally favorable for immature crops and fieldwork.



**MEXICO** ... Periodic, scattered showers continued to produce much needed moisture in the northwestern mountains for irrigation reservoirs. The moisture was needed in northern portions of the west coast farming region where mostly light rain (1-10mm) fell. Heavier rain fell further south, with weekly rainfall amounts increasing to 50-134mm in northwestern portions of the Southern Plateau corn belt. Elsewhere in the corn belt, light rain (1-10mm) fell in the southwest, beneficial showers (10-25mm) fell in central portions, and moderate to heavy rain (25-76mm) continued in the east, with the heavier amounts in the southeast. Tropical showers also covered southern Mexico, leaving dry weather confined to the northeast. The dryness favored harvest activities, but deficient moisture has hampered crop development throughout the northeast and north-central regions of the country.

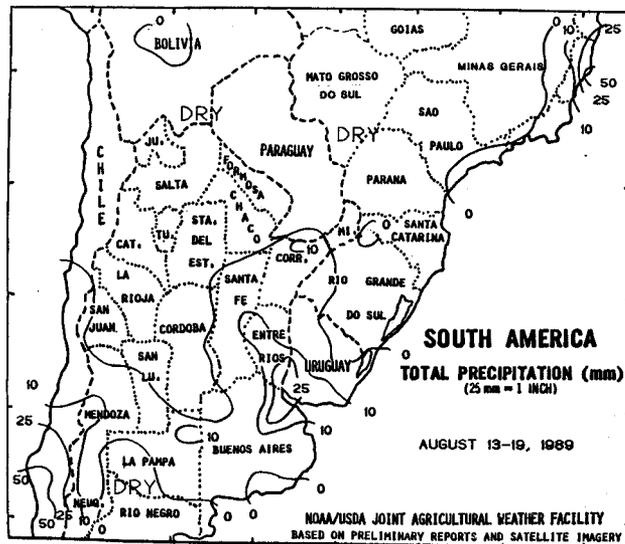
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**SOUTH AMERICA** ... In Argentina, light showers (1-11mm) covered wheat areas of Santa Fe and most of Buenos Aires and La Pampa. At week's end, heavier showers (10-40mm), with isolated heavier downpours, fell over extreme northeastern Buenos Aires, and Entre Rios, extending into extreme southern Uruguay which has experienced serious drought conditions in recent months. Dry weather prevailed in extreme northwestern Buenos Aires and Cordoba. Unusually mild weather, with weekly mean temperatures averaging 4-7 degrees C above normal, promoted growth of emerging wheat. Argentina's wheat planting is nearly complete except in southeastern Buenos Aires where persistently dry topsoils have reportedly hampered sowing. Mostly dry weather prevailed throughout south-central Brazil. Milder than average weather hastened wheat growth in Rio Grande do Sul, where more rain is needed for crop development. Heavy rain returned to central Chile to the south of Santiago.

(Continued from p. 16)

tasseled, 100% 1988; 65% silked, 95% 1988; 55% milk, 80% 1988, 55% avg; 15% dough, 35% 1988, 35% avg. Alfalfa second-cutting 65% complete, 80% 1988, 70% avg. Other hays 85% harvested, 95% 1988, 90% avg. Livestock to be wintered: Cattle 95% of 1988, sheep 95% of 1988. Ranges, pastures fair. 95% livestock feed now obtained from pastures. Hay, roughage supplies for remainder of feeding season 25% very short, 30% short, 40% adequate, 5% surplus. Calf, lamb weights mostly unchanged from a year ago.

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