

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

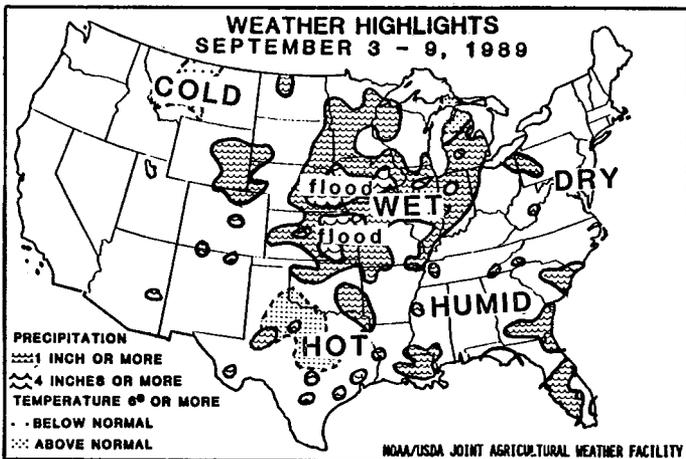
Volume 76, No. 36

Washington, D.C.

Sept. 12, 1989

National Weather Summary

September 3-9, 1989



Summer Weather Review

WEDNESDAY: Showers and thunderstorms covered the Corn Belt and continued from the southern Appalachians to Florida and across the western Gulf coast. Cool air moved in behind the cold front crossing the northern Plains. Strong easterly winds and Hurricane Gabrielle in the Atlantic were responsible for increased swells along the East coast.

THURSDAY: Drenching rain continued over the western Corn Belt ahead of the cold front. More than 2 inches fell across Iowa. Scattered rain extended from the Great Lakes to Florida.

FRIDAY: Showers and thunderstorms developed around the front, which became stationary from the southern Plains to the Great Lakes. Heavy rains soaked Kansas, Nebraska, Iowa, and Missouri. Rain was widespread across the northern and central Rockies.

SATURDAY: The frontal system edged southeastward, spreading substantial rain across the Mississippi and Ohio Valleys and the Great Lakes. More heavy rain caused flooding in the lower Missouri Valley. Temperatures continued to drop over the northern and central Rockies, where the persistent rain turned to snow in the higher elevations.

HIGHLIGHTS: A strong cold front pushed across the northern Rockies and stretched from the southern Plains to the lower Great Lakes at week's end. Severe thunderstorms developed in the hot, humid air ahead of the slow moving front. Abundant rainfall relieved long-term drought in the western Corn Belt but produced severe flooding around Omaha, NE, and Kansas City, MO. Showers and thunderstorms were scattered along the Gulf and southern Atlantic coasts, while dry weather again prevailed over much of the Northeast and mid-Atlantic Coast States.

SUNDAY: Violent thunderstorms struck from the upper Mississippi Valley into the central Plains, with torrential rains drenching the middle Missouri Valley. Showers were spread down the southern Atlantic Coast States, while hot, humid air covered the South.

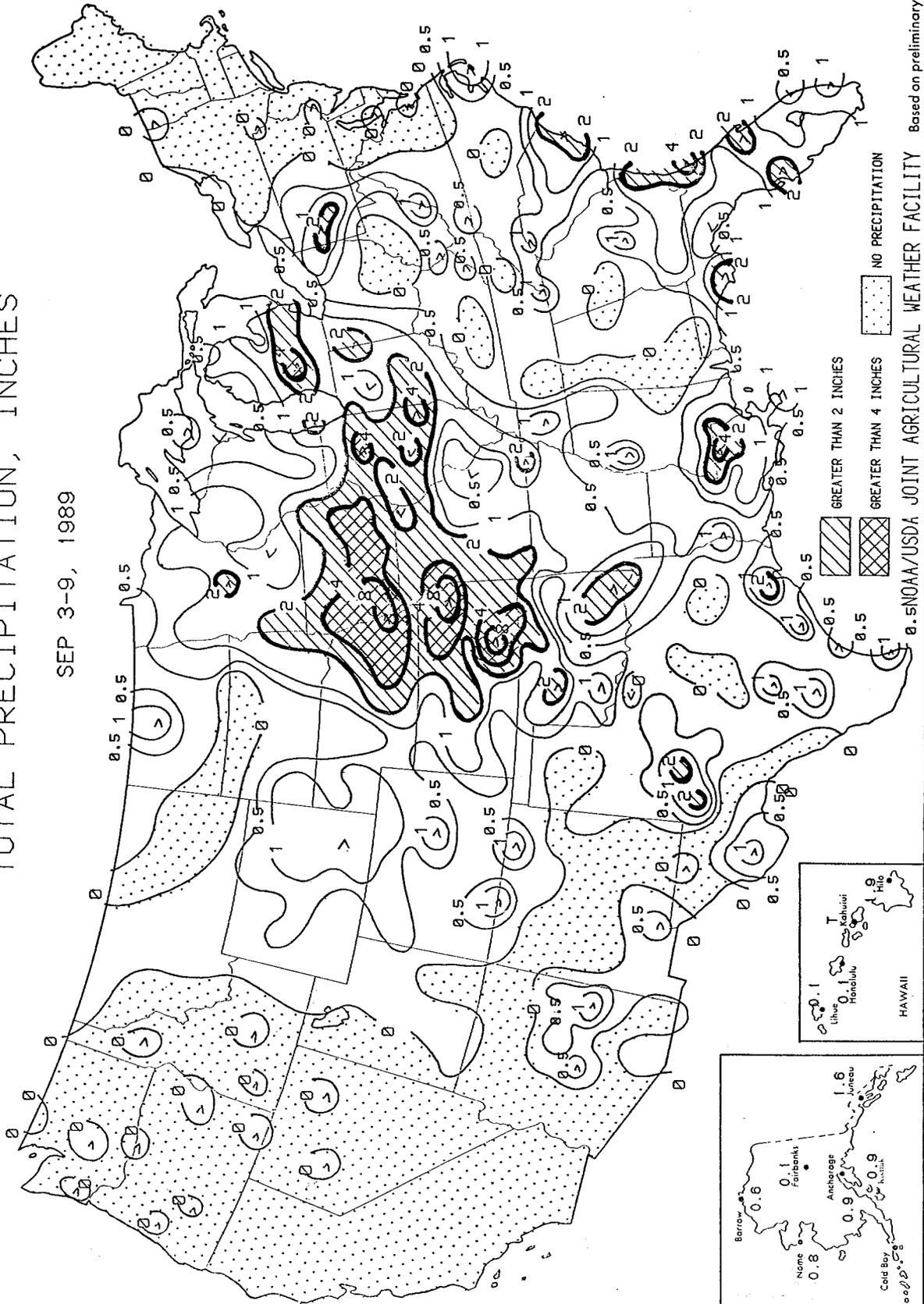
MONDAY: Labor Day thunderstorms extended from the upper Great Lakes to the southern Plains, with heavy rains soaking eastern Kansas and western Missouri. Showers and thunderstorms were scattered along the Gulf and southern Atlantic coasts. The western Gulf Coast States remained unseasonably hot, with a number of stations reporting record-high temperatures.

TUESDAY: Severe thunderstorms dumped heavy rain from northern Illinois into the central Plains. The persistent rain caused flooding in eastern Kansas. Showers continued to be widespread across the southern Atlantic Coast States and along the Gulf coast. Cool and windy weather prevailed in the Northeast, while a cold front pushed across the northern Rockies, producing scattered rain.

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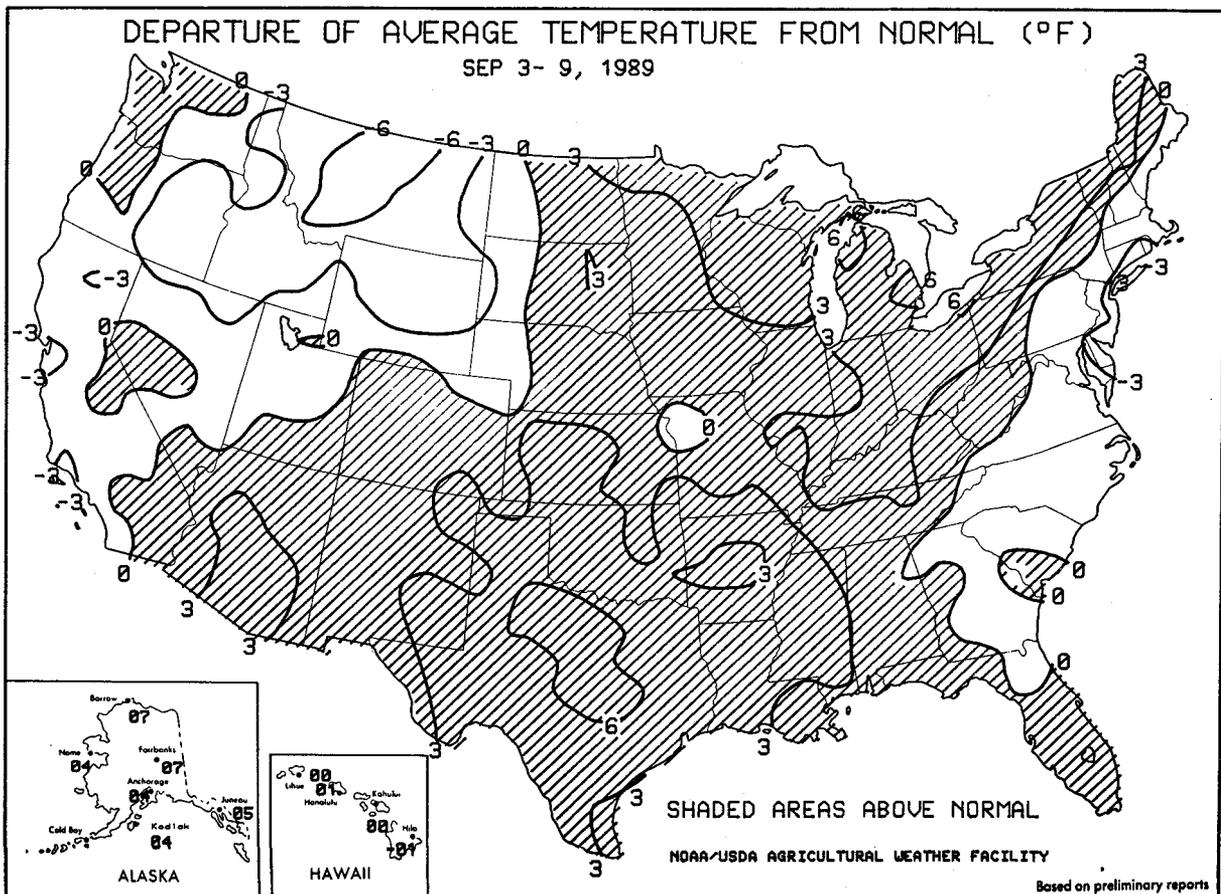
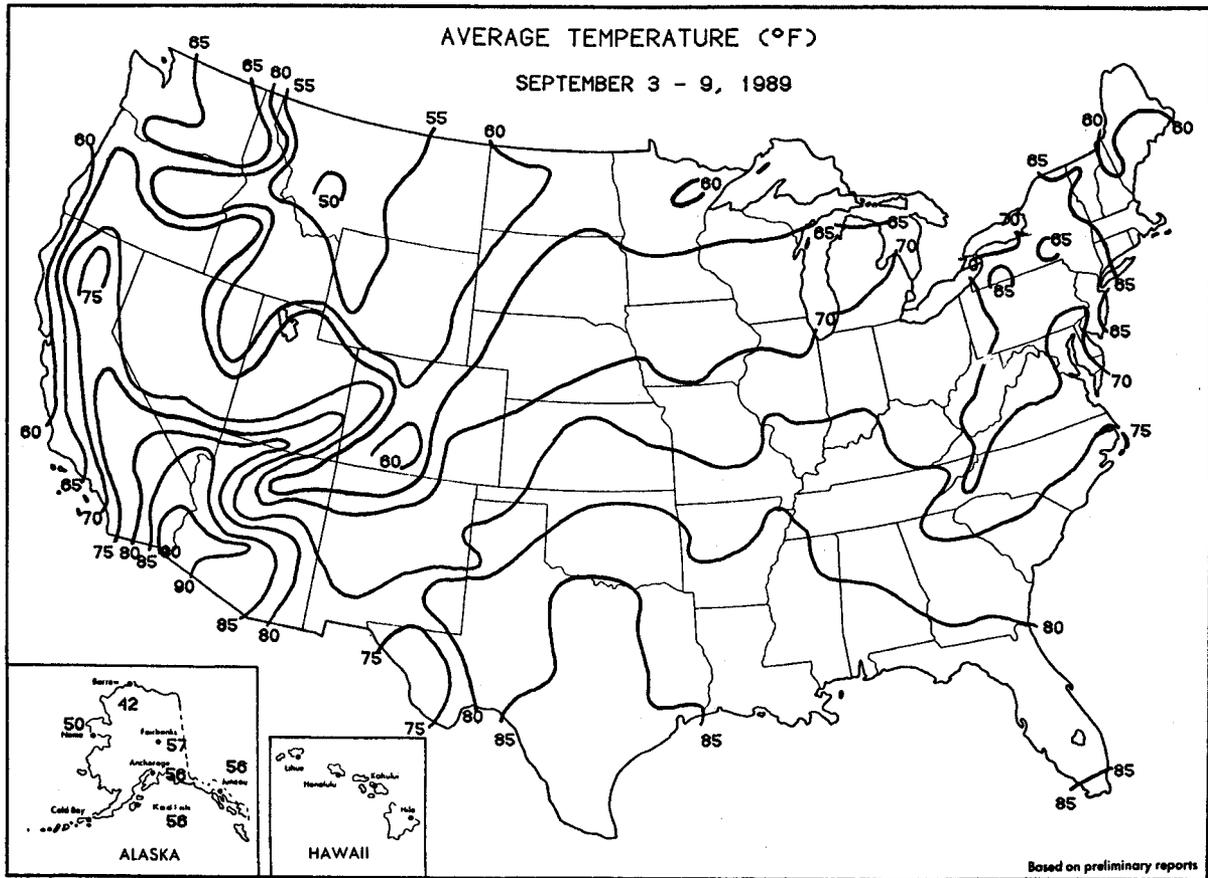
TOTAL PRECIPITATION, INCHES

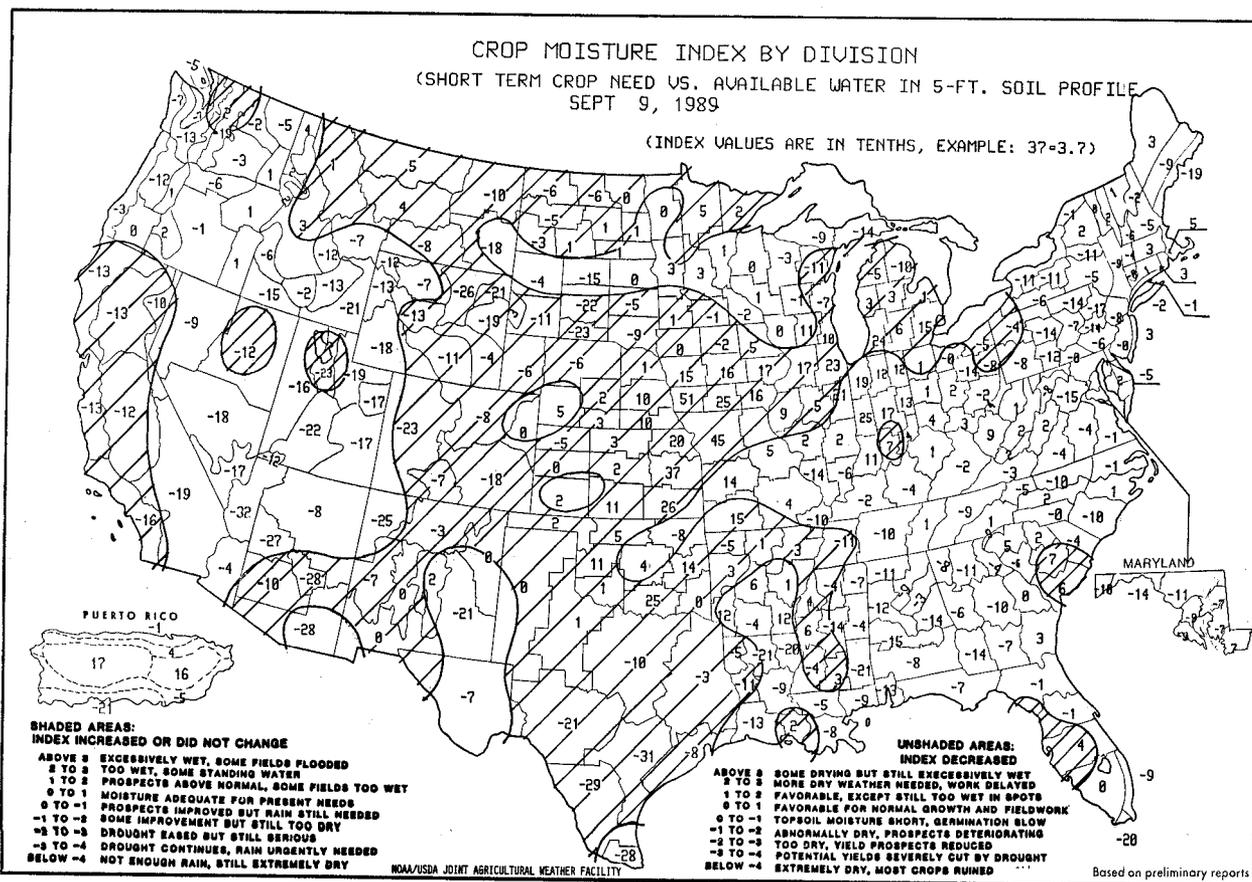
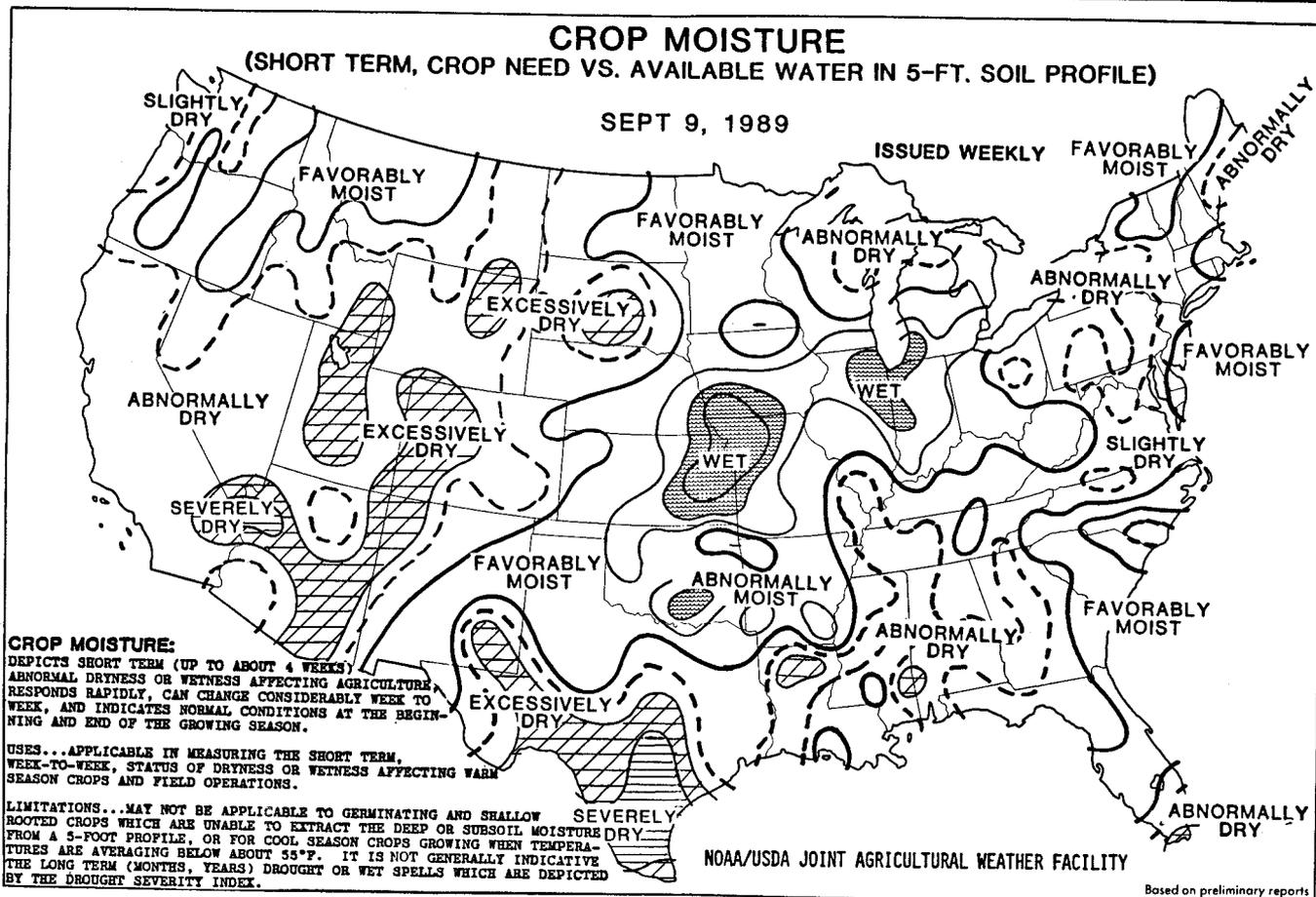
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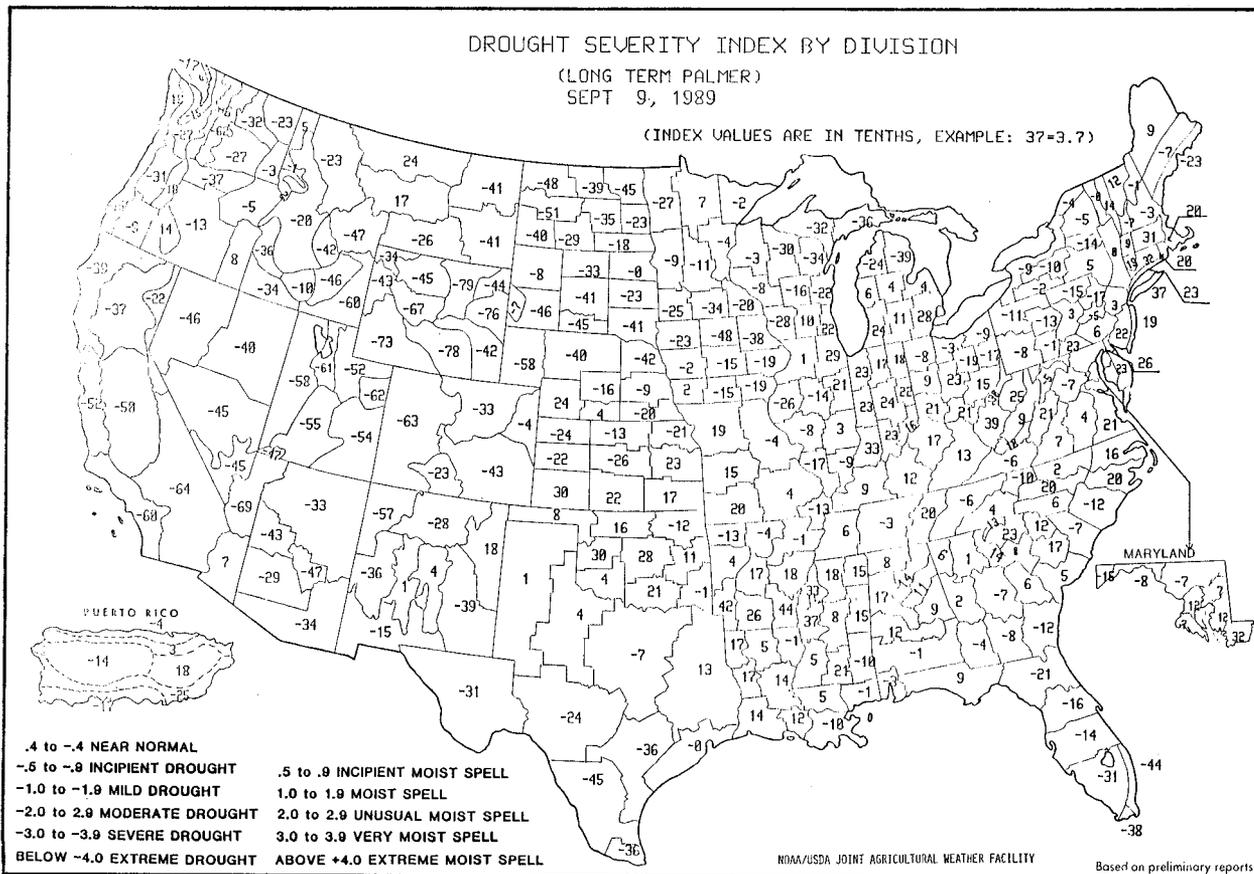
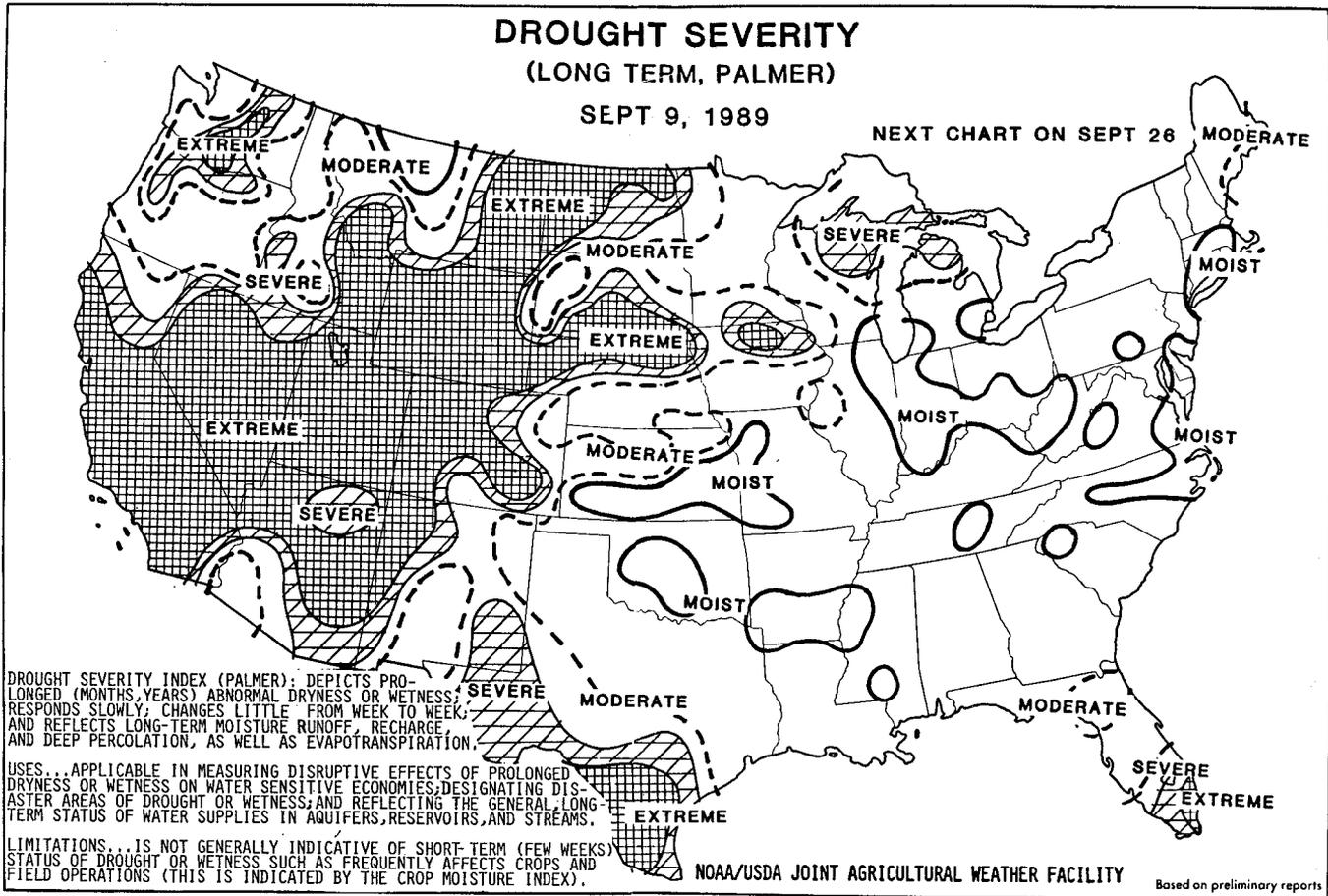


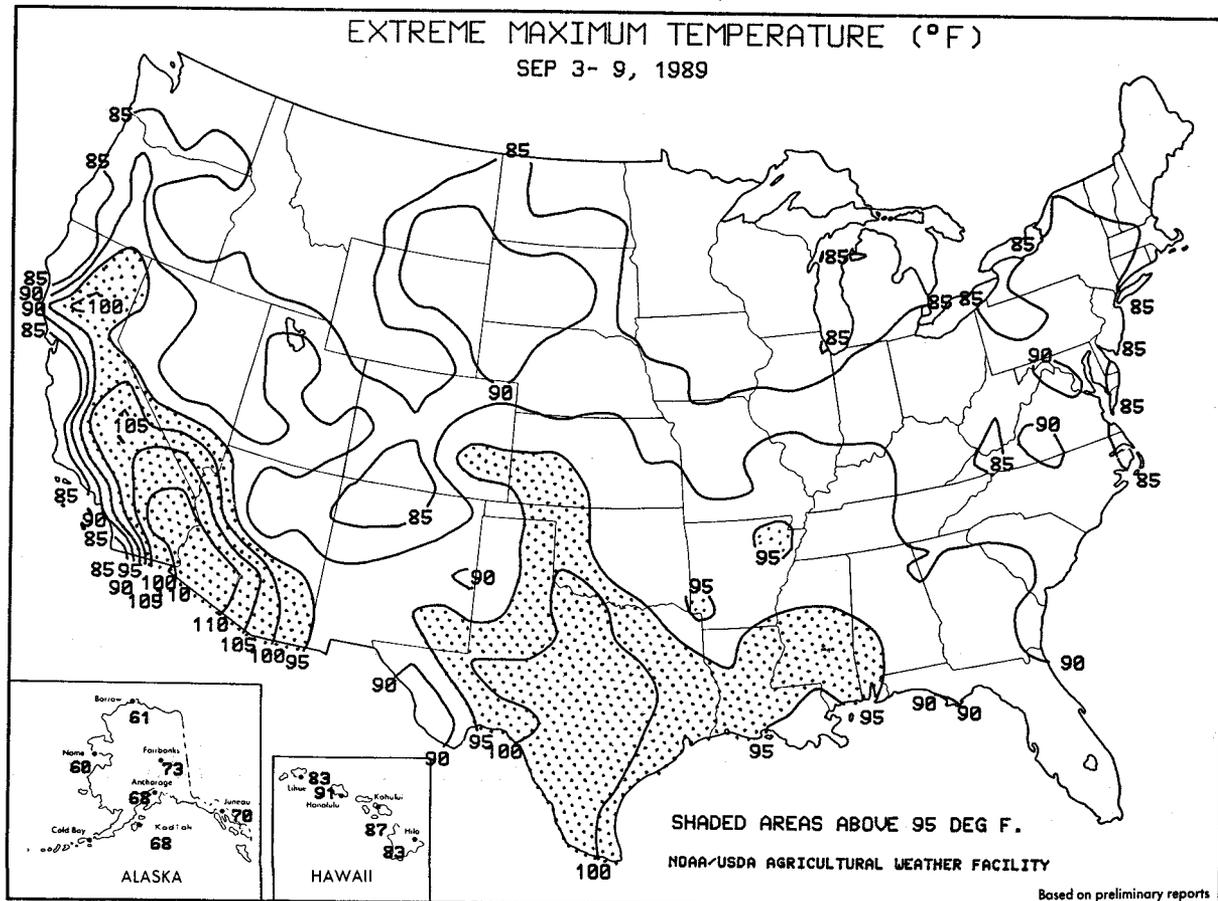
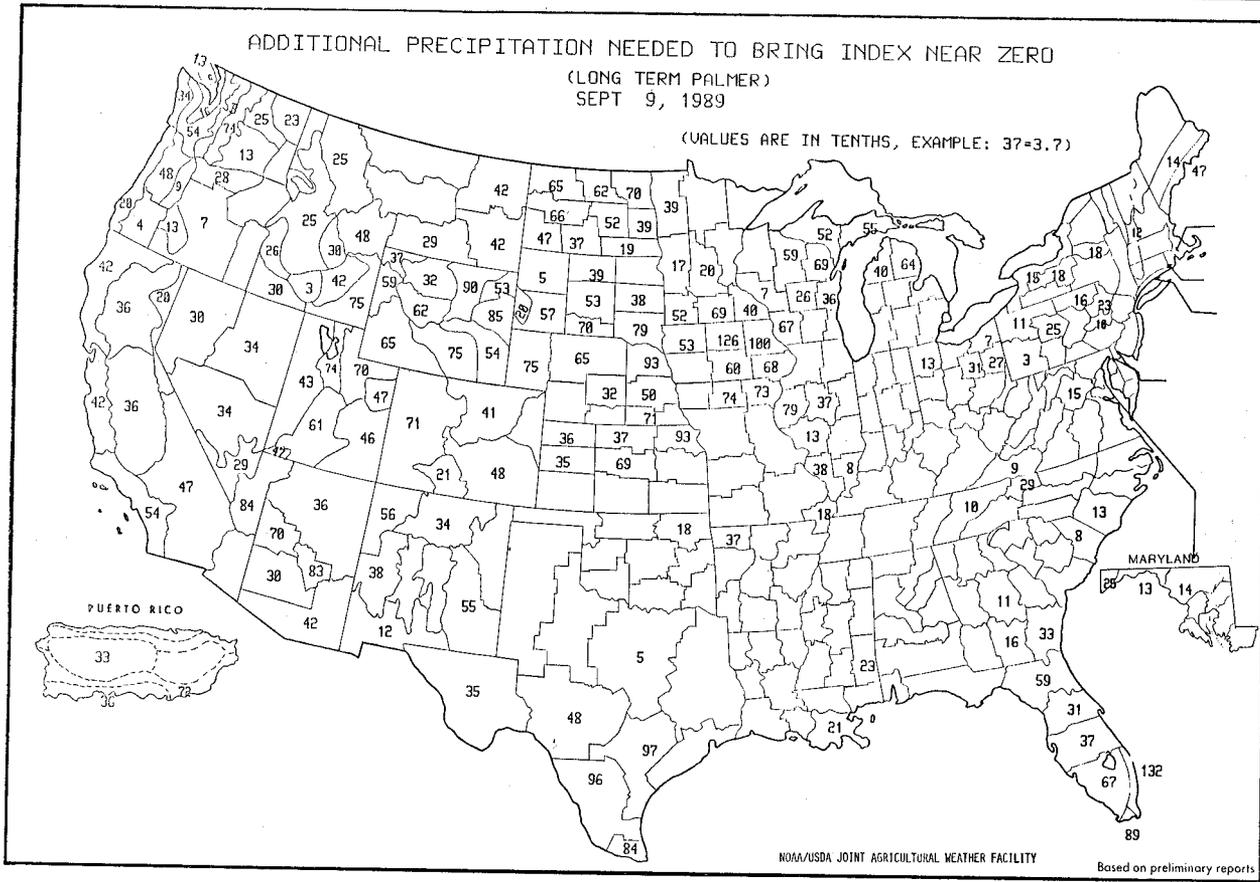
Based on preliminary reports

NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY









National Weather Data for Selected Cities

Weather Data for the Week Ending September 9, 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 Sep 1	PCT. NORMAL SINCE Sep 1	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERA- TURE °F		PRECIPI- TATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	89	69	92	67	79	2	T	-1.0	T	.8	58	46.1	115	91	47	3	0	1	0
MOBILE	91	73	95	72	82	2	.1	-1.6	.1	.4	19	40.4	84	95	54	5	0	2	0
MONTGOMERY	90	70	94	68	80	1	T	-1.1	T	.9	64	51.5	145	97	56	3	0	1	0
AK ANCHORAGE	62	50	68	44	56	4	.9	.3	.5	1.1	151	18.8	201	98	67	0	0	5	0
BARROW	48	36	61	34	42	7	.6	.4	.4	.6	285	6.7	211	100	84	0	0	4	0
FAIRBANKS	67	47	73	40	57	7	.1	.3	0	.1	13	6.8	91	95	48	0	0	2	0
JUNEAU	63	49	70	45	56	5	1.6	.2	1.4	1.9	110	22.7	74	99	61	0	0	3	1
KODIAK	62	50	68	45	56	4	.9	.4	.8	1.4	81	31.7	84	88	71	0	0	4	1
NOME	58	44	60	36	50	4	.8	.1	.6	.8	96	16.1	157	99	75	0	0	3	1
AZ PHOENIX	104	79	109	72	92	4	.4	.2	.4	.4	159	3.9	85	51	17	7	0	1	0
PRESCOTT	87	58	92	47	73	5	T	-2.5	T	T	0	8.1	59	52	17	3	0	0	0
TUCSON	101	73	105	66	87	5	T	-3.3	T	T	4	4.4	56	61	17	7	0	1	0
YUMA	106	78	110	70	92	2	0	-1.0	0	0	0	6.8	452	67	20	7	0	0	0
AR FORT SMITH	89	71	94	68	80	3	1.0	.2	1.0	1.3	138	43.1	155	99	59	4	0	2	1
LITTLE ROCK	88	70	91	65	79	2	.8	-2.2	.7	2.7	209	42.1	122	93	60	1	0	2	1
CA BAKERSFIELD	96	60	102	54	78	-2	0	0	0	0	0	2.3	59	54	20	6	0	0	0
EUREKA	61	51	65	47	56	-1	T	-1.0	T	T	0	19.3	85	90	75	0	0	0	0
FRESNO	95	59	101	54	77	1	0	0	0	0	0	4.9	69	70	17	6	0	0	0
LOS ANGELES	73	60	75	58	66	-4	0	0	0	0	0	3.2	38	95	64	0	0	0	0
REDDING	95	55	99	52	75	-4	0	-2.0	0	0	0	19.9	78	69	15	7	0	0	0
SACRAMENTO	89	54	98	49	71	-2	0	0	0	0	0	9.1	85	88	25	3	0	0	0
SAN DIEGO	77	63	80	61	70	-1	0	0	0	0	0	2.0	30	95	59	0	0	0	0
SAN FRANCISCO	69	52	73	50	61	-4	0	0	0	0	0	7.4	59	96	56	0	0	0	0
CO DENVER	79	53	90	44	66	0	.5	.2	.3	1.26	12.7	106	77	37	3	0	3	0	0
GRAND JUNCTION	87	58	92	46	72	2	.2	0	.2	.2	90	5.2	98	45	16	3	0	1	0
PUEBLO	87	55	97	51	71	2	.1	-2.1	.1	-1.2	28	5.8	66	78	27	4	0	1	0
CT BRIDGEPORT	74	57	82	52	65	-3	0	-8.0	0	T	0	36.2	128	71	50	0	0	0	0
HARTFORD	78	49	88	44	64	-3	0	-9.0	0	T	3	38.0	127	95	39	0	0	0	0
DC WASHINGTON	82	64	89	60	73	-1	0	-8.0	0	T	0	33.7	121	89	47	0	0	0	0
FL APALACHICOLA	87	74	89	71	81	0	2.1	-1.1	2.1	2.3	81	36.6	92	92	64	0	0	1	1
DAYTONA BEACH	89	74	92	73	82	1	.9	-7.4	.4	1.0	48	24.2	70	96	64	1	0	3	0
JACKSONVILLE	89	72	91	70	80	-1	2.0	.3	1.1	2.0	91	33.7	86	99	62	2	0	4	2
KEY WEST	91	80	92	77	85	1	.4	-1.0	.4	.6	33	17.7	71	87	61	7	0	4	0
MIAMI	91	77	92	75	84	2	1.4	-4.1	1.1	2.5	106	35.0	87	89	58	7	0	4	1
ORLANDO	91	75	93	74	83	1	2.8	1.2	1.7	5.1	244	32.7	86	97	57	6	0	6	2
TALLAHASSEE	91	72	94	69	82	2	T	-1.6	T	.3	13	46.8	95	94	52	6	0	1	0
TAMPA	92	74	93	73	83	1	2.1	-4.1	1.3	3.9	179	32.7	90	96	57	7	0	5	1
WEST PALM BEACH	90	77	91	75	83	1	.1	-1.9	.1	.9	35	26.5	67	91	60	6	0	3	0
GA ATLANTA	84	69	92	66	77	1	.2	-6.2	.2	.2	19	41.7	115	91	57	1	0	3	0
AUGUSTA	85	69	91	65	77	0	T	-9.9	T	T	3	37.4	112	96	59	2	0	1	0
MACON	86	70	92	67	78	0	T	-8.8	T	T	0	34.9	102	96	57	2	0	0	0
SAVANNAH	86	72	89	69	79	0	1.2	-2.6	.6	1.2	66	28.7	73	95	59	0	0	4	1
HI HILLO	83	68	83	66	75	-1	1.9	.3	.7	4.0	192	39.8	163	95	63	0	0	6	1
HONOLULU	89	74	91	73	82	1	.1	0	.1	.1	117	15.4	107	81	45	2	0	2	0
KAHULUI	86	71	87	65	79	0	T	-1.1	T	T	43	28.7	235	80	52	0	0	0	0
LIHUE	83	76	83	75	79	0	.1	-3.1	.1	.5	104	41.6	156	76	65	0	0	1	0
ID BOISE	76	46	85	41	61	-5	T	-1.1	T	T	0	7.3	95	67	21	0	0	0	0
LEWISTON	80	52	86	50	66	-1	*0	-2.0	0	.2	71	11.5	131	63	27	0	0	0	0
POCATELLO	76	43	83	32	59	-3	0	-1.0	0	0	0	7.1	96	72	24	0	1	0	0
IL CHICAGO	79	62	87	53	70	3	1.1	.1	.5	3.4	261	24.8	100	98	64	0	0	4	0
MOLINE	78	62	81	54	70	2	3.9	3.0	2.4	4.9	415	28.7	103	96	67	0	0	4	2
PEORIA	79	63	86	56	71	2	1.2	.3	.5	1.7	147	18.0	69	98	72	0	0	4	1
QUINCY	81	64	88	54	72	2	2.4	1.4	1.9	2.4	189	14.8	53	94	66	0	0	3	1
ROCKFORD	76	62	80	53	69	2	.9	0	.6	2.2	197	26.2	97	99	72	0	0	4	1
SPRINGFIELD	81	64	88	54	72	2	1.7	.9	1.5	4.6	464	24.7	98	97	66	0	0	3	1
IN EVANSVILLE	87	65	92	57	76	4	.8	.2	.8	1.1	132	41.1	135	98	54	1	0	1	1
FORT WAYNE	81	62	86	50	72	4	2.1	1.5	1.2	2.8	349	28.7	114	97	62	0	0	4	2
INDIANAPOLIS	83	63	87	54	73	3	2.7	2.1	1.9	4.8	541	39.6	139	96	60	0	0	2	2
SOUTH BEND	79	62	85	52	71	4	1.3	.5	.6	3.0	293	28.5	106	95	62	0	0	4	1
IA DES MOINES	77	62	85	53	69	1	5.4	4.6	2.3	5.4	512	26.1	109	98	69	0	0	6	2
SIoux CITY	77	60	85	48	68	1	4.5	3.8	2.5	4.5	537	18.6	91	88	58	0	0	4	3
WATERLOO	76	59	82	49	67	2	2.3	1.5	1.0	3.0	278	15.7	62	98	66	0	0	4	2
Ks CONCORDIA	82	65	91	54	74	2	3.8	3.0	1.8	3.8	383	22.7	106	96	65	1	0	6	2
DODGE CITY	88	65	96	51	76	4	T	-5.7	T	T	5	17.8	107	90	44	4	0	1	0
GOODLAND	82	59	93	47	70	3	.1	-3.1	.1	.1	19	16.5	124	97	40	2	0	2	0
TOPEKA	81	64	89	55	73	1	8.2	7.4	4.4	8.2	764	33.8	135	99	71	0	0	5	3
WICHITA	84	68	91	58	76	2	5.5	4.7	3.3	5.6	551	32.1	151	94	64	2	0	4	3
KY BOWLING GREEN	89	65	94	61	77	4	T	-8.8	T	.3	31	48.8	137	96	52	3	0	0	0
LEXINGTON	84	65	88	58	75	3	.3	-6.3	.3	.6	58	41.2	121	93	55	0	0	1	0
LOUISVILLE	87	66	90	58	76	3	.4	-4.4	.4	1.0	101	42.9	136	94	53	1	0	1	0
LA ALEXANDRIA	93	74	95	71	84	4	.1	-7.1	.1	.1	10	52.2	136	95	51	7	0	1	0
BATON ROUGE	94	74	96	72	84	4	.1	-1.0	.1	.1	10	61.0	148	97	54	7	0	2	0
LAKE CHARLES	93	75	97	73	84	4	.2	-1.2	.1	.2	12	53.5	144	97	53	7	0	5	0
NEW ORLEANS	90	74	94	71	82	2	1.6	.1	.6	1.6	84	38.0	87	97	66	4	0	4	2

Based on 1951-80 normals

Weather Data for the Week Ending September 9, 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	PCT. NORMAL SINCE Sep 1	TOTAL, IN., SINCE Sep 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE OF			
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
SHREVEPORT	93	73	96	72	83	4	.2	-.6	.1	.2	18	52.8	170	96	51	7	0	3	0
ME CARIBOU	73	46	82	32	59	3	0	-.9	0	1.6	141	23.0	94	94	48	0	1	0	0
PORTLAND	72	48	79	40	60	0	0	-.7	0	.6	60	26.6	95	97	47	0	0	0	0
MD BALTIMORE	79	60	88	55	70	0	0	-.9	0	T	1	39.2	132	90	52	0	0	0	0
SALISBURY	80	57	85	56	69	0	0	-.8	0	0	0	36.1	112	92	48	0	0	0	0
MA BOSTON	73	56	82	51	64	0	0	-.8	0	T	0	27.1	93	87	55	0	0	0	0
CHATHAM	70	58	77	56	64	0	0	-.9	0	T	3	30.9	99	94	66	0	0	0	0
MI ALPENA	78	52	85	40	65	5	.5	-.3	.4	1.7	168	15.7	76	97	54	0	0	2	0
DETROIT	80	63	86	53	72	0	0	-.6	.6	1.9	252	22.6	101	99	68	0	0	4	1
FLINT	79	61	84	50	70	6	3.5	2.9	2.9	4.0	500	25.3	120	97	63	0	0	4	1
GRAND RAPIDS	78	60	82	48	69	4	4.1	3.3	1.9	4.6	468	26.3	113	99	64	0	0	4	3
HOUGHTON LAKE	77	55	83	38	66	5	.6	0	.5	.6	74	15.6	79	95	58	0	0	2	1
LANSING	80	60	85	47	70	5	2.2	1.5	1.2	2.8	294	24.2	115	96	62	0	0	4	2
MARQUETTE	73	50	80	40	62	5	.7	-.2	.5	.7	61	19.7	76	94	53	0	0	3	1
MUSKOGON	77	61	79	47	69	4	1.7	1.0	1.3	2.2	244	19.3	92	97	66	0	0	4	1
SAULT ST. MARIE	75	52	83	41	64	6	.4	-.5	.3	.4	35	16.8	77	98	52	0	0	4	0
MN ALEXANDRIA	71	54	81	46	63	1	1.5	-.9	1.0	1.5	189	16.8	87	96	58	0	0	2	2
DULUTH	71	52	78	47	62	5	1.4	.5	1.1	1.4	125	20.5	93	95	56	0	0	3	1
INT'L FALLS	71	51	82	40	61	5	.7	-.1	.4	.7	66	17.0	95	94	53	0	0	2	0
MINNEAPOLIS	76	57	81	50	66	2	.5	-.2	.5	1.1	128	20.8	101	96	54	0	0	3	0
ROCHESTER	75	56	80	46	65	3	.5	-.3	.3	.5	49	19.7	92	95	58	0	0	3	0
MS GREENWOOD	92	71	95	68	82	3	.1	-.7	.1	.1	7	51.7	136	91	54	7	0	1	0
JACKSON	93	71	97	67	82	3	.2	-.7	.2	.2	19	36.1	96	96	52	6	0	2	0
MERIDIAN	92	71	96	69	82	3	0	-.9	0	0	0	47.9	122	96	49	6	0	0	0
MO CAPE GIRARDEAU	89	68	91	61	78	1	1.4	-.5	1.4	1.4	119	44.0	137	94	53	3	0	1	1
COLUMBIA	83	65	90	60	74	2	.8	-.1	.4	1.2	103	31.7	119	98	69	1	0	4	0
KANSAS CITY	79	64	89	54	72	-1	7.9	6.9	4.3	7.9	618	33.2	125	98	74	0	0	5	3
SAINT LOUIS	86	68	92	61	77	4	.2	-.4	.1	.9	110	25.6	103	88	53	2	0	2	0
SPRINGFIELD	83	66	89	60	75	2	1.6	.6	1.5	1.6	128	28.5	103	96	63	0	0	2	1
MT BILLINGS	71	46	92	43	58	-5	.1	-.2	.1	.3	74	11.0	98	77	30	1	0	2	0
GLASGOW	69	44	85	38	57	-5	.1	-.2	.1	.1	26	8.8	97	90	33	0	0	1	0
GREAT FALLS	63	40	75	32	51	-10	.1	-.2	.1	.1	21	18.3	152	92	43	0	0	2	0
HAVRE	63	42	74	37	53	-8	T	-.3	T	T	0	9.1	97	72	39	0	0	0	0
HELENA	66	40	78	32	53	-6	.1	-.1	.1	.1	50	9.9	109	85	33	0	1	2	0
KALISPELL	65	40	70	32	53	-5	.2	-.1	.1	.6	154	14.8	132	93	43	0	1	2	0
MILES CITY	74	48	92	45	61	-3	0	-.3	0	0	0	12.4	110	71	26	1	0	0	0
MISSOULA	68	40	76	36	54	-5	0	-.3	0	.2	63	11.0	115	88	34	0	0	0	0
NE GRAND ISLAND	79	60	87	50	70	2	5.7	5.0	3.0	5.7	700	19.7	105	97	63	0	0	4	3
LINCOLN	81	62	89	50	71	2	7.7	6.9	4.7	7.7	783	21.8	100	97	67	0	0	7	3
NORFOLK	78	59	87	48	69	2	3.6	3.1	1.9	3.6	519	15.4	79	96	57	0	0	6	3
NORTH PLATTE	77	57	85	49	67	2	.4	0	.2	.4	79	13.0	80	97	51	0	0	3	0
OMAHA	78	63	86	53	70	1	5.9	5.0	2.6	5.9	509	20.3	86	95	70	0	0	6	3
SCOTTSBLUFF	77	53	95	46	65	0	.8	-.5	.6	.8	241	7.7	64	86	39	1	0	4	1
VALENTINE	76	56	90	49	66	1	.3	-.1	.2	.3	58	9.8	67	80	37	1	0	3	0
NV ELY	80	38	85	32	59	-1	0	-.2	0	0	0	5.8	89	46	13	0	1	0	0
LAS VEGAS	99	70	104	64	85	1	0	-.1	0	0	0	2.2	77	17	8	7	0	0	0
RENO	84	44	90	41	64	1	0	-.1	0	0	0	5.2	105	66	15	1	0	0	0
WINNEMUCCA	81	40	91	33	61	-2	T	-.1	T	T	0	3.2	60	57	17	1	0	0	0
NH CONCORD	77	45	88	38	61	-1	0	-.7	0	.1	15	25.1	103	99	41	0	0	0	0
NJ ATLANTIC CITY	77	51	86	50	64	-6	0	-.8	0	T	0	35.6	121	96	52	0	0	0	0
NM ALBUQUERQUE	87	60	89	52	73	1	T	-.2	T	T	0	3.4	61	71	22	0	0	0	0
CLOVIS	83	61	86	56	72	0	.2	-.3	.1	.4	72	13.0	101	89	39	0	0	3	0
ROSWELL	93	66	96	60	80	6	T	-.5	T	T	0	4.1	53	75	25	6	0	0	0
NY ALBANY	79	52	88	44	65	1	0	-.8	0	.1	13	28.8	118	95	42	0	0	0	0
BINGHAMTON	75	53	85	44	64	1	0	-.8	0	.3	25	27.7	109	96	48	0	0	0	0
BUFFALO	78	60	84	50	69	4	T	-.9	T	1.3	122	28.5	113	87	50	0	0	0	0
NEW YORK	77	62	89	59	70	-2	0	-.9	0	.1	4	40.5	137	81	46	0	0	0	0
ROCHESTER	81	60	89	47	70	5	0	-.7	0	.8	88	24.0	111	89	48	0	0	0	0
SYRACUSE	81	56	89	44	69	4	0	-.8	0	.3	28	22.3	83	89	43	0	0	0	0
NC ASHEVILLE	75	61	85	56	68	-1	.5	-.4	.5	.9	70	42.6	134	99	67	0	0	1	1
CHARLOTTE	81	66	89	61	74	-2	.1	-.8	.1	.1	7	31.8	101	96	60	0	0	3	0
GREENSBORO	79	64	88	59	71	-2	.1	-.8	.1	.1	11	33.2	108	95	60	0	0	1	0
HATTERAS	82	70	83	60	76	-1	1.6	-.2	1.4	4.3	240	55.0	146	93	65	0	0	2	1
NEW BERN	83	67	86	64	75	-1	.8	-.7	.4	2.5	134	45.0	115	95	59	0	0	2	0
RALEIGH	81	64	88	59	73	-1	T	-.8	T	T	4	39.4	128	95	59	0	0	1	0
WILMINGTON	84	67	87	64	76	-1	.3	-.2	.2	.4	18	43.9	110	96	60	0	0	2	0
ND BISMARCK	74	49	86	36	62	1	.3	-.1	.3	.3	67	9.3	75	87	37	0	0	1	0
FARGO	73	52	85	45	63	1	1.1	-.7	1.1	1.1	179	16.5	106	94	51	0	0	1	1
GRAND FORKS	73	52	85	39	62	3	.7	-.2	.7	.7	101	10.8	75	92	47	0	0	2	1
WILLISTON	72	48	89	41	60	-1	T	-.3	T	.5	114	8.9	82	93	36	0	0	1	0
OH AKRON-CANTON	80	60	86	50	70	4	.2	-.5	.2	.6	60	29.5	112	93	52	0	0	1	0
CINCINNATI	83	64	87	56	74	3	.6	-.1	.6	1.7	188	40.1	137	91	54	0	0	1	1
CLEVELAND	82	64	88	50	73	6	1.2	-.4	.9	2.0	216	31.5	124	89	53	0	0	3	1
COLUMBUS	82	63	87	52	73	4	T	-.7	T	.6	59	35.3	127	89	52	0	0	0	0

Weather Data for the Week Ending September 9, 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 Sep 1	PCT. NORMAL SINCE Sep 1	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE		PRECIPITATION		
																90 AND ABOVE	72 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE	
DAYTON	83	63	86	51	73	3	1.0	.4	1.0	2.8	358	39.4	153	97	58	0	0	2	1	
TOLEDO	81	62	87	49	72	6	1.3	.6	.6	2.1	252	31.7	139	97	60	0	0	4	2	
YOUNGSTOWN	81	60	86	47	70	5	1.6	.8	1.6	1.9	200	32.3	121	92	52	0	0	1	1	
OK OKLAHOMA CITY	88	71	92	61	79	3	1.1	-.7	1.1	.6	62	33.3	145	94	58	4	0	2	0	
TULSA	87	72	94	64	80	3	1.4	-.6	1.4	.6	45	23.7	86	92	59	3	0	1	0	
OR ASTORIA	75	48	84	45	62	2	0	-.6	0	T	4	35.4	90	96	48	0	0	0	0	
BURNS	75	39	83	33	57	-5	T	-.1	T	T	0	8.0	126	69	17	0	0	0	0	
MEDFORD	88	47	92	43	68	0	0	-.1	0	0	0	10.8	98	83	19	3	0	0	0	
PENDLETON	77	49	83	45	63	-4	0	-.1	0	0	0	10.0	132	65	22	0	0	0	0	
PORTLAND	81	52	91	48	67	2	0	-.3	0	.3	83	20.1	94	92	33	1	0	0	0	
SALEM	82	45	89	41	64	0	0	-.3	0	T	11	17.3	76	94	28	0	0	0	0	
PA ALLENTOWN	79	55	88	50	67	-1	0	-1.0	0	T	0	31.6	102	94	48	0	0	0	0	
ERIE	80	64	87	54	72	7	T	-.9	T	.2	17	28.5	107	81	50	0	0	1	0	
HARRISBURG	78	57	87	51	67	-3	0	0	T	.1	5	35.5	130	97	52	0	0	0	0	
PHILADELPHIA	81	59	87	56	70	-2	T	-.8	T	3	3	37.3	127	87	45	0	0	1	0	
PITTSBURGH	82	59	87	49	70	3	1.5	-.2	1.4	.5	62	32.4	120	94	49	0	0	2	0	
SCRANTON	78	53	85	46	65	-1	0	-.8	0	T	0	25.8	106	93	44	0	0	0	0	
RI PROVIDENCE	77	52	86	47	64	-2	0	-.9	0	T	0	36.8	121	93	42	0	0	0	0	
SC CHARLESTON	85	71	89	68	78	0	3.8	2.5	2.8	3.9	233	35.3	88	96	65	0	0	4	2	
COLUMBIA	84	67	93	63	75	-2	1.0	-.1	.6	1.2	85	38.5	102	97	59	1	0	4	1	
FLORENCE	86	68	89	65	77	-1	1.9	-.2	.6	.9	69	36.3	108	96	56	0	0	2	1	
GREENVILLE	79	65	88	63	72	-3	.8	-.4	.5	.8	53	34.3	92	93	64	0	0	2	1	
SD ABERDEEN	78	54	88	48	66	3	T	-.4	T	T	0	14.8	102	87	37	0	0	0	0	
HURON	79	57	90	45	68	3	1.0	.7	.7	1.0	227	12.4	82	88	37	1	0	4	1	
RAPID CITY	74	51	95	46	63	-2	1.2	1.0	.9	1.2	376	9.0	66	75	34	1	0	4	2	
SIoux FALLS	75	57	81	47	66	1	2.2	1.5	1.3	2.2	244	13.3	70	97	57	0	0	5	2	
TN CHATTANOOGA	87	68	91	62	77	2	1	-1.0	1	.3	22	49.9	134	95	52	1	0	1	0	
KNOXVILLE	87	66	90	62	77	2	T	-.7	T	.5	49	38.3	113	97	52	1	0	0	0	
MEMPHIS	91	71	94	66	81	4	1.5	-.4	.5	.7	57	45.5	121	90	49	6	0	1	0	
NASHVILLE	89	66	93	64	77	2	1	-.9	1	.2	19	41.4	118	92	46	3	0	1	0	
TX ABILENE	97	74	99	66	85	6	1.2	-.5	.2	.2	20	22.4	135	71	32	7	0	2	0	
AMARILLO	90	64	94	54	77	5	0	-.5	0	0	0	16.5	107	82	31	6	0	0	0	
AUSTIN	99	76	102	75	88	6	1.5	-.8	T	T	2	22.1	105	91	36	7	0	1	0	
BEAUMONT	94	77	98	75	85	4	1.5	-.9	.3	.5	27	57.9	150	95	54	7	0	3	0	
BROWNSVILLE	95	75	98	74	85	2	1.3	-.8	.2	.3	23	13.3	86	97	50	7	0	3	0	
CORPUS CHRISTI	95	74	97	72	84	2	1.8	-.5	.8	.8	38	14.1	67	97	53	7	0	2	1	
DEL RIO	97	77	100	74	87	4	0	-.6	0	0	0	5.8	50	65	29	7	0	0	0	
EL PASO	92	65	94	61	79	1	1.2	-.2	.1	.2	53	6.6	126	87	28	7	0	2	0	
PORT WORTH	97	76	101	75	87	6	0	-.7	0	0	0	34.6	159	83	40	7	0	0	0	
GALVESTON	92	81	96	80	87	5	1.6	-.9	.3	.6	31	35.6	132	87	62	7	0	2	0	
HOUSTON	94	75	99	73	84	3	1.7	.5	.9	1.7	109	51.9	165	97	51	6	0	2	2	
LUBBOCK	92	67	96	61	80	6	T	-.5	T	.5	73	11.4	85	78	32	6	0	1	0	
MIDLAND	97	68	100	65	82	6	1.4	1.0	1.4	1.4	236	6.4	67	74	26	7	0	1	1	
SAN ANGELO	98	71	101	66	84	5	1.8	.1	.8	.8	86	14.4	118	77	29	7	0	1	1	
SAN ANTONIO	98	75	102	72	87	5	1.9	0	.8	.9	79	13.3	68	89	35	7	0	2	1	
VICTORIA	95	76	102	75	86	4	1.4	-1.1	.3	.4	21	16.8	68	96	47	6	0	3	0	
WACO	100	76	104	74	88	6	T	-.7	T	T	1	26.4	124	86	35	7	0	1	0	
WICHITA FALLS	99	72	103	63	86	6	T	-.8	T	T	0	28.7	152	87	34	7	0	0	0	
UT CEDAR CITY	84	53	87	44	68	2	0	-.2	0	0	0	5.5	75	37	12	0	0	0	0	
SALT LAKE CITY	82	53	94	49	68	-1	0	-.2	0	0	0	7.6	70	63	20	1	0	0	0	
VT BURLINGTON	78	57	86	44	67	5	T	-.8	T	1.1	103	24.3	104	83	45	0	0	1	0	
VA NORFOLK	80	68	86	63	74	-1	T	-1.1	T	T	0	41.9	128	88	55	0	0	0	0	
RICHMOND	80	60	89	57	70	-3	T	-.9	T	T	0	35.3	113	95	54	0	0	0	0	
ROANOKE	79	61	92	53	70	-1	1.2	-.5	.2	.2	25	35.0	126	98	58	1	0	2	0	
WA QUILLAYUTE	75	47	86	41	61	3	T	-1.1	T	T	0	49.9	82	89	38	0	0	0	0	
SEATTLE-TACOMA	78	54	83	50	66	4	0	-.4	0	T	4	20.3	94	83	36	0	0	0	0	
SPOKANE	73	45	78	40	59	-4	0	-.2	T	T	14	9.6	82	28	0	0	0	0		
YAKIMA	79	44	83	39	62	-2	0	-.1	0	0	0	3.8	79	82	25	0	0	0	0	
WV BECKLEY	75	59	82	56	67	1	T	-.9	T	T	3	30.6	98	97	64	0	0	1	0	
CHARLESTON	84	60	89	55	72	1	T	-.8	T	.2	16	42.0	134	98	51	0	0	0	0	
HUNTINGTON	84	61	89	56	72	1	T	-.8	T	.4	41	45.1	148	95	53	0	0	0	0	
PARKERSBURG	83	62	88	55	72	2	0	-.7	0	.3	35	39.3	139	94	54	0	0	0	0	
WI GREEN BAY	77	56	85	49	67	5	1.5	-.3	.5	.6	57	13.8	68	95	53	0	0	1	1	
LACROSSE	78	59	85	53	69	4	1.4	-.6	1.1	1.5	135	18.0	78	99	60	0	0	4	1	
MADISON	76	60	80	52	68	4	1.4	-.4	.3	.7	67	21.0	91	97	65	0	0	3	0	
MILWAUKEE	75	61	78	51	68	3	1.9	1.2	1.3	2.2	246	24.4	108	98	70	0	0	3	2	
WAUSAU	73	56	79	50	65	4	1.8	-.2	.4	.8	61	17.0	72	98	61	0	0	3	0	
WY CASPER	72	43	89	38	58	-4	1.1	-.9	.7	1.1	525	9.7	113	73	31	0	0	2	1	
CHEYENNE	75	47	86	38	61	0	1.1	.8	.9	1.1	306	10.9	99	85	43	0	0	2	1	
LANDER	70	45	87	39	58	-4	1.1	.6	.6	.7	360	12.1	122	63	31	0	0	2	1	
SHERIDAN	71	43	93	38	57	-4	1.8	.5	.5	.8	247	9.6	84	78	30	1	0	2	0	

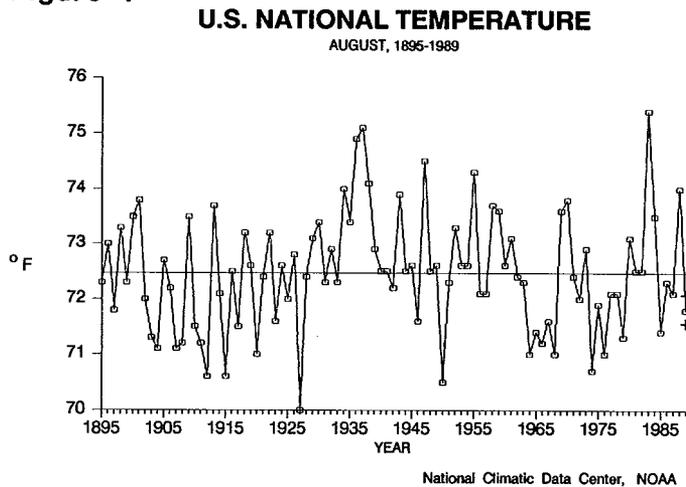
August Weather in Historical Perspective

Preliminary data for August 1989 indicate that temperature averaged across the country was the 24th coldest on record (fig. 1). The preliminary value has a standard error of estimate of 0.26 degrees F (indicated by the '+'). The areally-weighted mean standardized national precipitation ranks August 1989 as the 33rd wettest (fig. 2).

The temperature and precipitation rankings for August 1989 are listed in table 1. The regions are shown in figure 3. The West and Northwest were characterized by cool and comparatively wet weather. Temperatures in the Central and South were also lower than normal.

January through August 1989 was the tenth driest, or worse, such period for Arizona, Iowa, Nebraska, and New Mexico (table 2). In contrast, New Jersey and West Virginia were the wettest over this period on record.

Figure 1

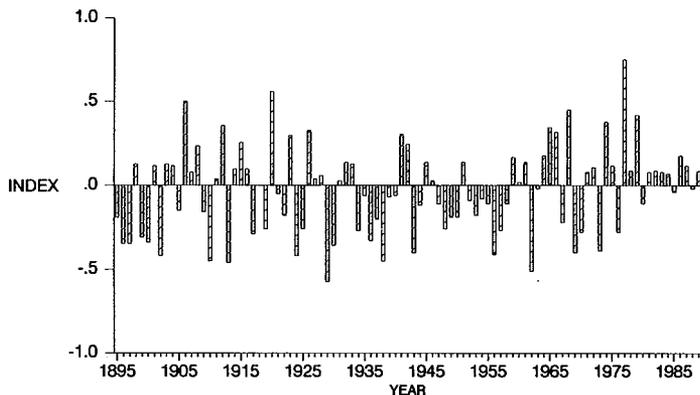


National Climatic Data Center, NOAA

Figure 2

U.S. NATIONAL MEAN PRECIP INDEX

AUGUST, 1895-1989



National Climatic Data Center, NOAA

Table 1. Temperature and Precipitation Rankings for August 1989, based on the period 1895-1989. 1 = driest/coldest, 95 = wettest/hottest.

Region	Precipitation	Temperature
National	57	24
Northeast	60	44
East North Central	66	56
Central	60	27
Southeast	36	39
West North Central	70	51
South	43	20
Southwest	33	31
Northwest	85	19
West	81	22

Figure 3

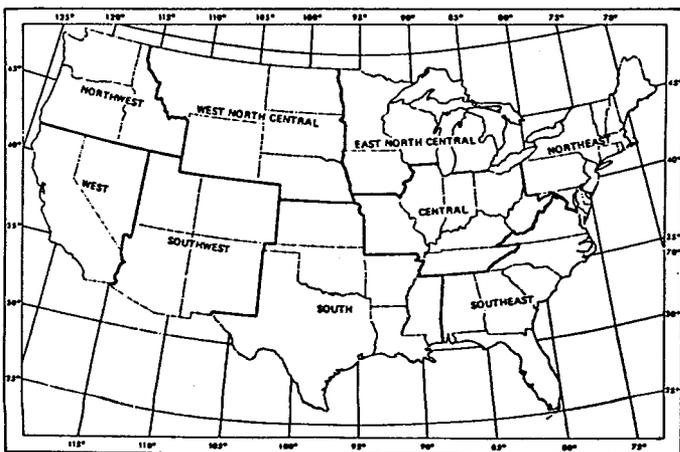
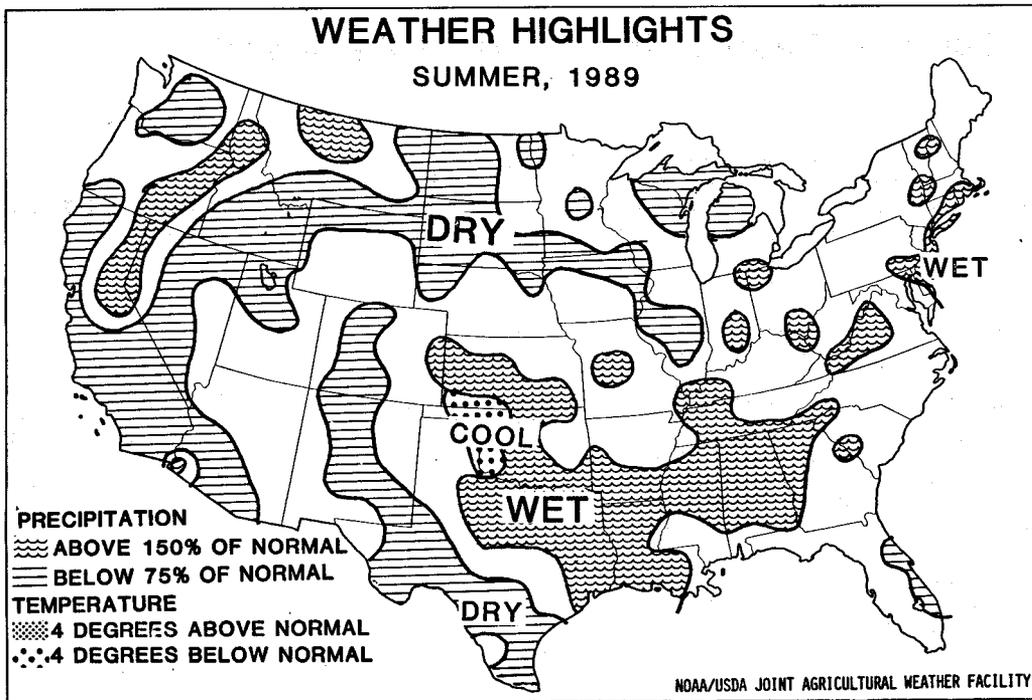


Table 2. Precipitation Rankings for January-August 1989, based on the period 1895 to 1989. 1 = driest, 95 = wettest.

State	Rank	State	Rank	State	Rank	State	Rank
AL	88	IA	8	NE	3	RI	88
AZ	7	KS	52	NV	33	SC	51
AR	85	KY	93	NH	32	SD	12
CA	19	LA	88	NJ	95	TN	94
CO	11	ME	42	NM	9	TX	65
CT	91	MD	93	NY	76	UT	14
DE	89	MA	83	NC	91	VT	82
FL	23	MI	17	ND	22	VA	89
GA	50	MN	32	OH	91	WA	50
ID	46	MS	83	OK	85	WV	95
IL	23	MO	36	OR	56	WI	14
IN	91	MT	74	PA	82	WY	18



Summer Weather Review

June-August 1989

HIGHLIGHTS: Dry weather prevailed across the northern Plains into the western Corn Belt, although substantial rain at summer's end eased long-term dryness in some areas. In contrast, heavy rains soaked the central and southern Plains into the Southeast and along parts of the middle Atlantic coast. Tropical Storm Allison and Hurricane Chantal were responsible for torrential rain along the central Gulf coast. Cool air settled over the central portions of the Nation, while the North Central States remained warm.

JUNE: During the last week, Tropical Storm Allison and her remnants spawned tornadoes and dumped torrents of rain over the central Gulf coast and across the Southeast, causing massive flooding. Several cities (Birmingham, AL, and Shreveport, LA) had their highest rainfall total ever for the month. Winnfield, LA, was pelted with over 30 inches, also a record. Severe thunderstorms produced torrential rain in the central Plains and down the Atlantic seaboard, with several stations again reporting records for the month (Oklahoma City, OK, and Lynchburg, VA). In contrast, dry weather prevailed over much of the northern Plains and western Corn Belt. Temperatures were anomalously warm in the West and along the eastern seaboard, while cool air persisted over the central and southern Plains.

JULY: Thunderstorms remained scattered across the eastern half of the Nation, with some storms producing torrential rain. Heavy rain in the Southeast early in the month resulted from the remains of Tropical Storm Allison, while Hurricane Chantal developed in the Gulf at month's end. Hot, dry weather prevailed across the northern Plains, while thunderstorms brought very beneficial rain to parts of the western Corn Belt. Below-normal temperatures persisted in the central and southern Plains and middle Mississippi Valley.

AUGUST: The precipitation pattern contrasted sharply with the previous 2 months, as heavy rains fell in previously dry areas of the Plains States, and while unusually dry weather took place in previously wet areas of the South. In parts of North Dakota, Minnesota, Illinois, Iowa, Missouri, and Nebraska, August rainfall totals which were more than twice normal relieved long-term drought but caused local flooding problems. August was the fourth consecutive month with above-normal rainfall for many spots along the east coast, with some localities recording more than 8 inches of rain. Rainfall, however, varied greatly over short distances. For parts of Ohio, Pennsylvania, Maryland, and Virginia, this was one of the driest Augusts, with less than 1 inch accumulating. In Anchorage, AK, the record 9.6 inches of rain was 467 percent of normal.

Monthly average temperatures were fairly close to normal for most of the country, but the averages hid some notable extremes during the month. The record books for the eastern half of the country were significantly altered as an unseasonably cold dome of air descended upon the country during August 6-12, tying or breaking more than 240 low-temperature records. The last third of the month, however, saw hot, muggy air entrenched across most of the South.

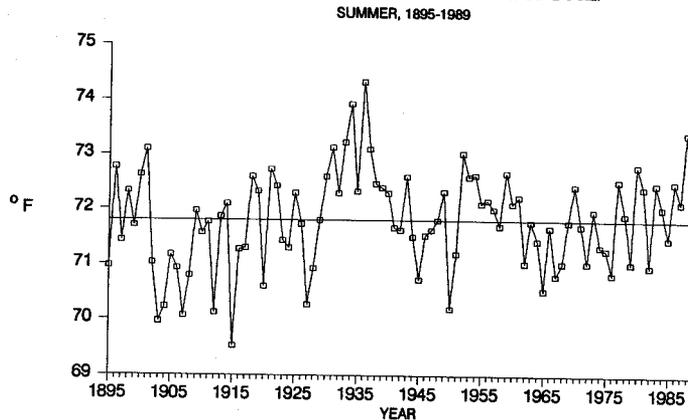
Summer Weather in Historical Perspective

The areally averaged temperature for the summer of 1989 across the contiguous United States was near the long-term mean (fig. 1). The areally-weighted mean standardized national precipitation ranks this summer as the 37th wettest on record (fig. 2). By comparison, 1988 had the ninth driest summer and 1930 had the driest summer nationwide.

The temperature and precipitation rankings for summer 1989 for the nine climatically homogenous regions in the United States are listed in table 1. The regional pattern consists of dry conditions in the North Central and Southwest regions and wet conditions in the East and South. The summer was abnormally cool in the South and Central, and abnormally warm in the West North Central and Southwest. Three States (Alabama, New Jersey, and Rhode Island) observed the wettest summer of record in 1989 (table 2).

Preliminary estimates of the number of tornadoes across the Nation indicate the summer of 1989 had the second highest on record (fig. 3). This was due largely to tornado activity during June.

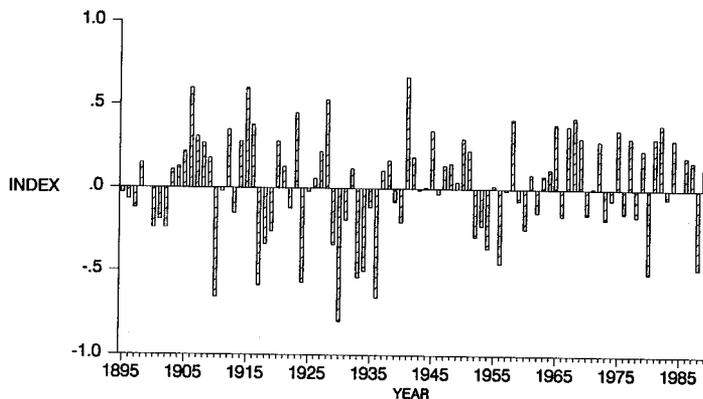
Figure 1
U.S. NATIONAL TEMPERATURE



National Climatic Data Center, NOAA

Figure 2

U.S. NATIONAL PRECIPITATION INDEX
SUMMER, 1895-1989



National Climatic Data Center, NOAA

Table 1. Temperature and Precipitation Rankings for Summer 1989, based on the period 1895-1989. 1 = driest/coldest, 95 = wettest/hottest.

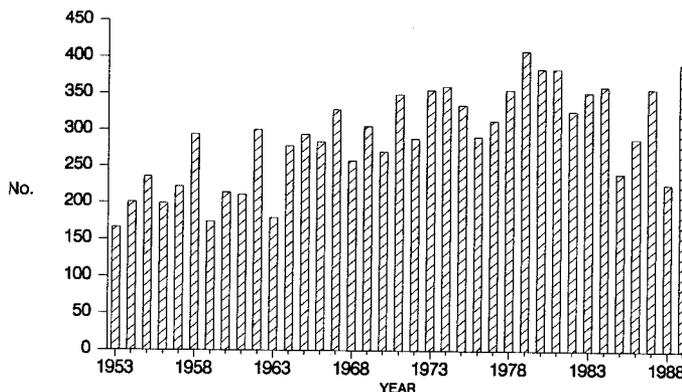
Region	Precipitation	Temperature
National	84	50
Northeast	85	51
East North Central	20	50
Central	84	27
Southeast	89	43
West North Central	20	73
South	90	10
Southwest	10	73
Northwest	57	57
West	58	61

Table 2. Precipitation Rankings for Summer 1989, based on the period 1895 to 1989. 1 = driest, 95 = wettest.

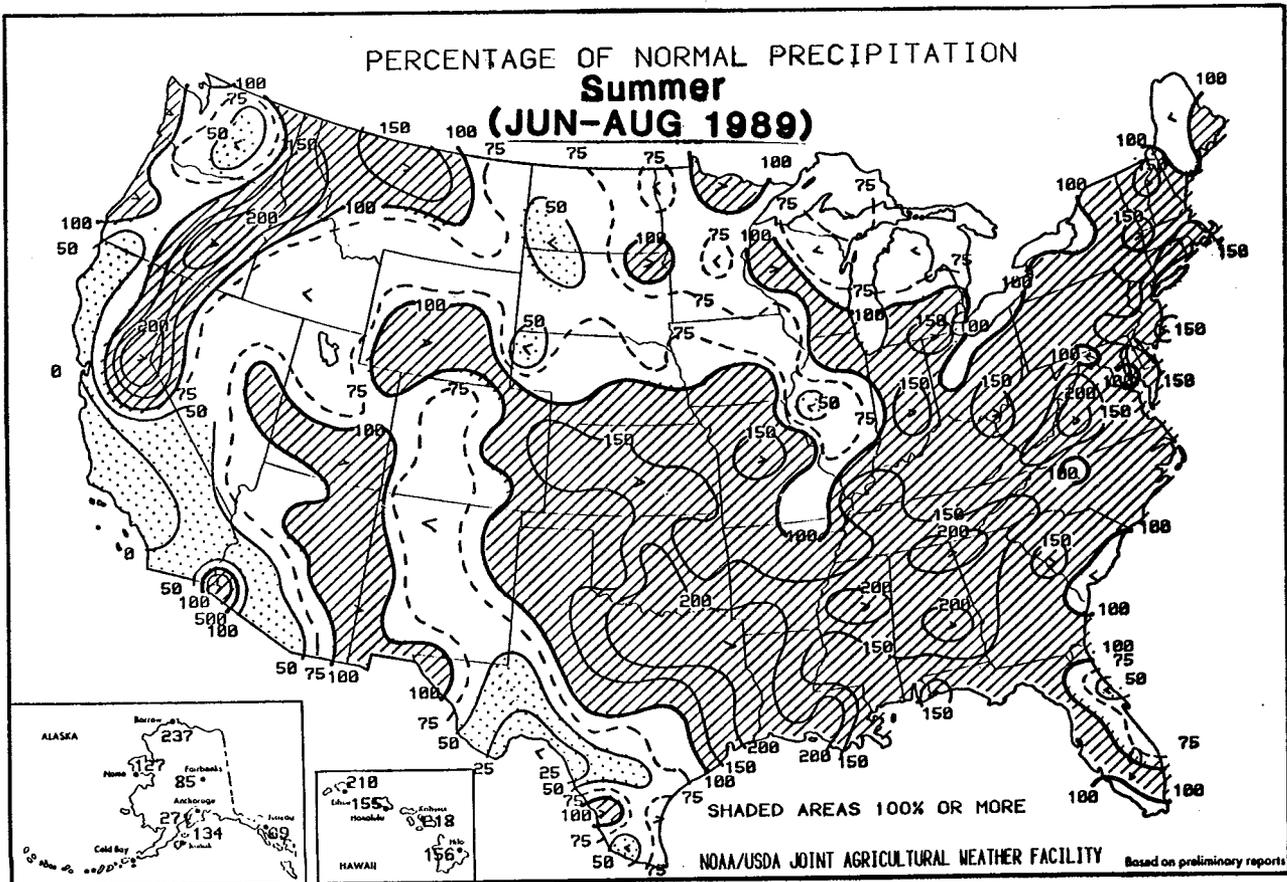
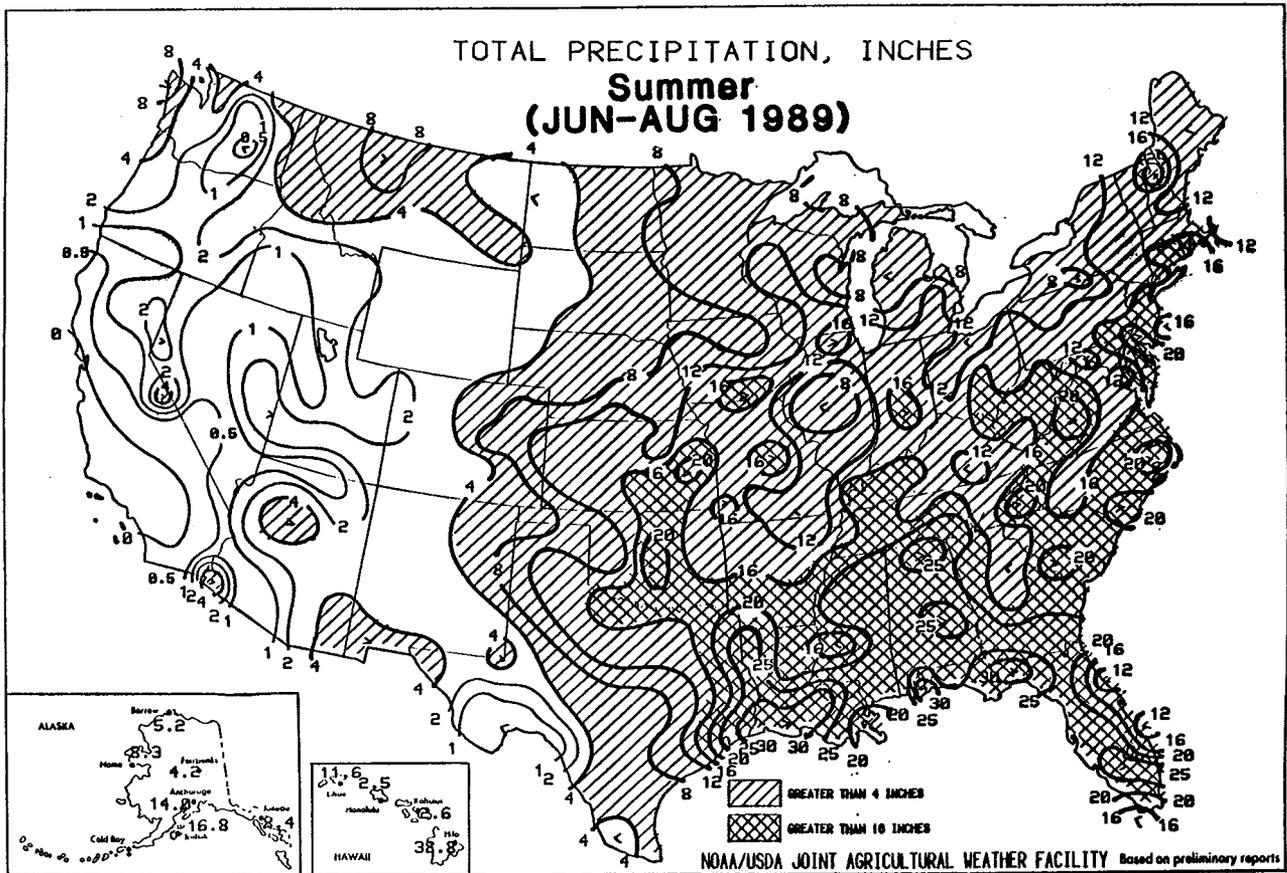
State	Rank	State	Rank	State	Rank	State	Rank
AL	95	IA	26	NE	30	RI	95
AZ	6	KS	78	NV	66	SC	64
AR	76	KY	85	NH	53	SD	11
CA	52	LA	94	NJ	95	TN	91
CO	29	ME	50	NM	16	TX	58
CT	90	MD	84	NY	80	UT	37
DE	83	MA	90	NC	80	VT	94
FL	50	MI	32	ND	13	VA	81
GA	87	MN	25	OH	77	WA	41
ID	56	MS	93	OK	88	WV	92
IL	34	MO	56	OR	66	WI	24
IN	91	MT	51	PA	76	WY	24

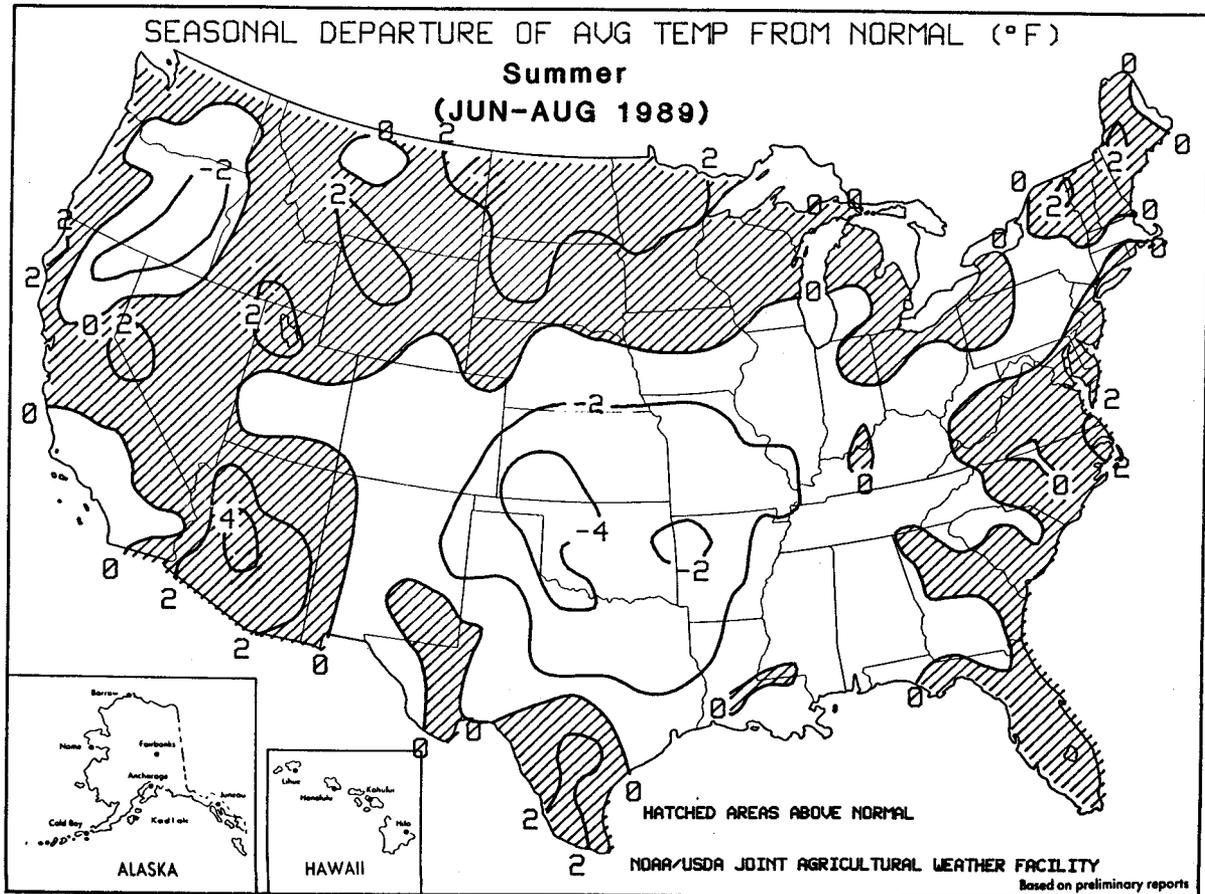
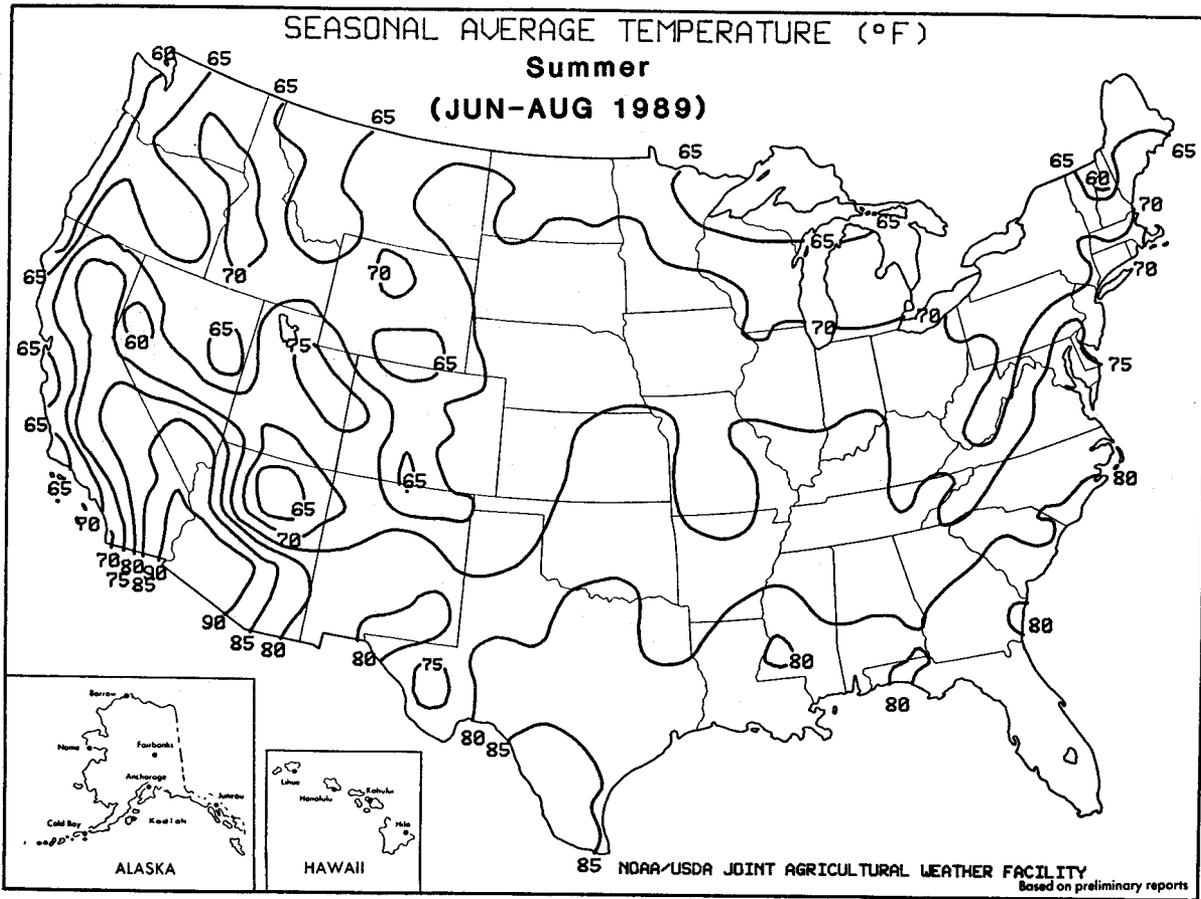
Figure 3

TOTAL NUMBER OF TORNADOES, U.S.
SUMMER (JJA) TOTAL, 1953-1989



National Climatic Data Center, NOAA





National Agricultural Summary

September 4 - 10, 1989

HIGHLIGHTS: Rain continued to improve soil moisture and pasture conditions in the western Corn Belt and central Great Plains. Soil moisture was mostly adequate in those areas. Rain delayed winter wheat planting in the central Great Plains. Soil moisture was mostly short to adequate in the northern Great Plains. Lack of rain slowed crop development in the Delta and portions of the Southeast. Soil moisture was mostly short to adequate in those areas. Soil moisture was mostly adequate to short in the East. Most of the West remained dry.

Winter wheat planting was 9 percent (%) complete, 2 percentage points behind the 5-year average. Spring wheat harvest was 95% complete, 1 point ahead of normal. Corn was mostly good to fair with 80% of the acres in the dent stage or beyond, 6 points behind normal. Twenty-eight percent was mature, 17 points behind normal. Corn harvest was 4% complete, 1 point behind normal. Soybeans were mostly good to fair with 96% of the acres setting pods, 1 point behind normal. Fifteen percent was dropping leaves, 9 points behind normal. Cotton was mostly fair to good with 34% of the acres opening bolls, 11 points behind normal. Sorghum was mostly good to fair with 62% of the acres coloring, 9 points behind normal. Twenty-seven percent was mature, 6 points behind normal. Sorghum harvest was 18% complete, 2 points behind normal. Florida's citrus trees were in near excellent condition.

SMALL GRAIN: Winter wheat planting was 9% complete, 2 points behind normal. Planting was underway in 10 of the 19 major producing States. Planting lagged 15 points behind normal in Nebraska and 16 points behind in Colorado. Rain delayed planting in Kansas and Nebraska. Kansas winter wheat planting was 1% complete, 4 points behind normal. Planting was 15% complete, 5 points ahead of normal in Oklahoma.

Spring wheat harvest was 95% complete, 1 point ahead of normal. Harvest was complete or nearly complete except in Montana. Montana's harvest was 75% complete, 15 points behind normal. Wet harvest conditions caused sprout damage to stored grain in Idaho and Washington.

CORN: Corn was mostly good to fair with 80% of the acres in the dent stage or beyond, 6 points behind normal. Twenty-eight percent was mature, 17 points behind normal. Maturity lagged more than 20 points behind normal in Illinois, Indiana, Missouri, and Ohio. Crop maturity was 36 points behind the 51% average in Indiana. High winds damaged corn in eastern Nebraska. Crop maturity lagged 19 points behind normal in Iowa. In the 17 major producing States, harvest was 4% complete, 1 point behind normal. Harvest was underway in 10 of the 17 major producing States. Harvest was 67% complete in Texas and 64% complete in Georgia. Harvest was just beginning in most of the other eight States.

SOYBEANS: Soybeans were mostly good to fair. Ninety-six percent of the acres was setting pods, 1 point behind normal. Fifteen percent was dropping leaves, 9 points behind normal. Percentage of acres dropping leaves was more than 15 points behind normal in Illinois, Indiana, and Ohio. In Arkansas, stem canker was a major problem in the southeastern area. Some fields have been completely destroyed. Soybeans were mostly good to fair in Illinois and fair to good in Iowa. Percentage of acres dropping leaves lagged 12 points behind normal in Iowa.

COTTON: Cotton was mostly fair to good. Thirty-four percent of the acres was opening bolls, 11 points behind normal. The percentage of acres opening bolls lagged more than 20 points behind normal in the Delta and Southeast. The percentage of bolls opening was 30 or more points behind normal in Arkansas, Mississippi, North Carolina, and South Carolina. Lack of rain slowed crop development in most of the Delta. Cotton was mostly fair to good in Texas and Mississippi and mostly good in California. Harvest was beginning in Alabama, Louisiana, and California and continued in Arkansas, Texas, and Arizona. In Texas, cotton harvest was 13% complete, equal to the average.

SORGHUM: Sorghum was mostly good to fair with 62% of the acres coloring, 9 points behind normal. Twenty-seven percent was mature, 6 points behind normal. Harvest was 18% complete, 2 points behind normal. Harvest was underway in 9 of the 11 major producing States. Harvest had not begun in Illinois and Nebraska. Harvest was 58% complete, equal to the average in Texas. Harvest was just beginning in the High Plains area.

OTHER FIELD CROPS: Rice was mostly good to fair. Harvest was 29% complete, 9 points behind normal. Harvest lagged behind normal but was underway in all the major producing States except California. Arkansas' harvest was 7% complete, 13 points behind normal. Peanut harvest continued in Alabama, Georgia, and South Carolina. Peanuts were good to fair in North Carolina. Flu-cured tobacco harvest was 76% complete in North Carolina. In South Carolina, flue-cured tobacco harvest was 87% complete. Burley tobacco harvest was 62% complete, 5 points behind normal in Kentucky. Houseburn damage was a problem on the earlier harvested crop. Burley tobacco harvest progressed well in Tennessee.

FRUIT AND NUTS: Florida's citrus trees were in near excellent condition with adequate soil moisture. Trees had abundant new growth, and the new crop fruit was progressing well. In Georgia, pecans were mostly fair to good. North Carolina's apple harvest was 39% complete, 13 points ahead of normal. McIntosh apple harvest was underway in Michigan and New York. Blueberry harvest was complete in New England. Dry weather and insects continued to stress pecans in Texas. Lemon harvest continued and grapefruit harvest began in western Arizona. Raisin harvest was active in central and western areas. Date harvest began in California. Table and wine grape harvests were active. Raisin harvest was in full swing. Lemon harvest began. New crop navel oranges were sizing well. Prune harvest was nearly complete. In Oregon, Anjou pear harvest was underway in the Hood River Valley.

VEGETABLES: Rain delayed vegetable planting in Florida. Sweetpotato harvest was 15% complete in North Carolina. In New York, onion harvest was in full swing in Orange County. Potato harvest was active in Maine and in the Connecticut River Valley. Vegetables were mostly fair to good in Louisiana. Sweetpotato harvest was 28% complete, 19 points behind normal. Sweetpotato harvest was ahead of normal in Mississippi. In Texas, cabbage and carrot planting was underway in the San Antonio-Winter Garden area. Vegetable harvest continued in the High Plains area. Fall vegetable planting continued in Arizona. In California, early variety fall potato harvest was underway. Onion and potato harvests were active in Idaho and

(Continued to back cover)

SPRING WHEAT
% HARVESTED

	1989	1988	AVG.
IDAHO	94	98	87
MINN	99	99	98
MONT	75	97	90
N DAK	99	100	92
S DAK	100	100	98

5 STATES 95 99 94

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

WINTER WHEAT
% PLANTED

	1989	1988	AVG.
ARK	0	0	0
CALIF	0	0	0
COLO	21	26	37
GA	0	1	2
IDAHO	6	2	9
ILL	0	0	0
IND	0	1	1
KANS	1	4	5
MICH	0	0	0
MO	0	2	0
MONT	9	7	17
NEBR	9	16	24
N C	0	0	0
OHIO	0	3	0
OKLA	15	5	10
OREG	2	2	1
S DAK	28	12	31
TEX	16	19	15
WASH	23	38	32

19 STATES 9 9 11

THESE 19 STATES PRODUCED 87% OF THE 1989 WINTER WHEAT CROP.

CORN
% DENT

	1989	1988	AVG.
COLO	64	80	78
GA	100	100	100
ILL	86	96	96
IND	80	94	94
IOWA	94	100	89
KANS	80	95	80
KY	95	91	95
MICH	40	65	65
MINN	84	99	85
MO	94	99	97
NEBR	93	96	85
N C	86	97	98
OHIO	42	76	88
PA	25	38	54
S DAK	78	92	64
TEX	94	99	98
WIS	54	83	68

17 STATES 80 92 86

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

Crop Progress

FOR WEEK ENDING SEPTEMBER 10, 1989

RICE
% HARVESTED

	1989	1988	AVG.
ARK	7	10	20
CALIF	0	2	1
LA	70	62	75
MISS	8	12	28
TEX	87	95	92

5 STATES 29 31 38

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

SOYBEANS

% SETTING PODS

	1989	1988	AVG.
ALA	81	82	90
ARK	85	82	88
GA	93	97	97
ILL	100	100	100
IND	100	100	100
IOWA	100	100	100
KANS	96	99	96
KY	89	91	89
LA	94	90	96
MICH	93	100	100
MINN	99	99	99
MISS	77	79	87
MO	100	99	99
NEBR	100	100	100
N C	81	79	83
OHIO	98	100	100
S C	79	81	82
S DAK	100	100	100
TENN	94	93	96

19 STATES 96 96 97

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

CORN

% MATURE

	1989	1988	AVG.
COLO	27	42	30
GA	98	99	100
ILL	28	62	55
IND	15	47	51
IOWA	34	91	53
KANS	40	75	50
KY	50	47	58
MICH	0	10	15
MINN	35	75	35
MO	51	75	72
NEBR	20	58	28
N C	78	82	88
OHIO	5	19	30
PA	2	9	10
S DAK	29	65	30
TEX	71	91	84
WIS	10	48	29

17 STATES 28 62 45

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

COTTON
% BOLLS OPENING

	1989	1988	AVG.
ALA	26	71	55
ARIZ	86	85	81
ARK	20	56	59
CALIF	70	60	73
GA	25	43	49
LA	50	72	73
MISS	32	72	74
MO	27	45	56
N MEX	47	20	47
N C	25	69	68
OKLA	10	15	10
S C	23	37	53
TENN	24	43	51
TEX	26	25	24

14 STATES 34 43 45

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

SOYBEANS

% DROPPING LEAVES

	1989	1988	AVG.
ALA	13	8	9
ARK	2	2	4
GA	8	13	13
ILL	17	37	36
IND	10	33	33
IOWA	16	53	28
KANS	15	35	25
KY	10	13	18
LA	9	4	9
MICH	3	10	15
MINN	39	88	40
MISS	11	8	11
MO	6	12	16
NEBR	15	55	17
N C	0	0	0
OHIO	4	16	24
S C	1	2	2
S DAK	48	79	37
TENN	14	14	14

19 STATES 15 34 24

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

CORN

% HARVESTED

	1989	1988	AVG.
COLO	0	0	0
GA	64	71	77
ILL	2	5	4
IND	0	2	2
IOWA	2	9	2
KANS	4	15	10
KY	4	6	9
MICH	0	0	0
MINN	1	0	0
MO	8	13	13
NEBR	1	6	1
N C	13	15	21
OHIO	0	1	1
PA	0	0	1
S DAK	0	0	0
TEX	67	69	64
WIS	0	0	0

17 STATES 4 7 5

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

GRAIN SORGHUM
% COLORING

	1989	1988	AVG.
ARK	88	91	NA
ILL	78	71	NA
KANS	40	65	55
IA	98	91	97
MISS	90	90	96
MO	78	83	87
NEBR	70	94	76
OKLA	85	70	85
S DAK	83	86	67
TENN	100	100	100
TEX	74	84	84

11 STATES 63 78 NA

EXCL. STATES WITH NA 62 78 71

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

NA - NOT AVAILABLE.

GRAIN SORGHUM
% MAIURE

	1989	1988	AVG.
ARK	60	54	NA
ILL	20	51	NA
KANS	5	20	15
IA	82	70	88
MISS	57	58	82
MO	37	40	49
NEBR	8	53	21
OKLA	10	10	20
S DAK	31	43	18
TENN	30	56	57
TEX	68	62	65

11 STATES 28 40 NA

EXCL. STATES WITH NA 27 39 33

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

NA - NOT AVAILABLE.

GRAIN SORGHUM
% HARVESTED

	1989	1988	AVG.
ARK	27	23	48
ILL	0	0	0
KANS	1	4	3
IA	57	40	70
MISS	27	26	44
MO	9	8	14
NEBR	0	3	1
OKLA	1	2	3
S DAK	2	0	0
TENN	14	8	23
TEX	58	59	58

11 STATES 18 19 20

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

Crop Condition
PERCENT

FOR WEEK ENDING SEPTEMBER 10, 1989

RICE

STATE	VP	P	F	G	EX
ARK	0	0	29	62	9
CALIF	0	0	10	70	20
IA	0	0	48	52	0
MISS	0	0	35	65	0
TEX	0	0	13	87	0
5 STATE	0	0	28	65	7
PREV WEEK	0	0	30	64	6
PREV YEAR	0	0	31	63	6

CORN

STATE	VP	P	F	G	EX
COLO	0	2	14	71	13
GA	0	0	16	71	13
ILL	0	4	18	67	11
IND	0	0	15	75	10
IOWA	2	11	47	37	3
KANS	10	3	9	29	49
KY	0	0	3	58	39
MICH	0	5	15	50	30
MINN	1	5	31	53	10
MO	8	13	35	40	4
NEBR	5	11	26	42	16
N C	0	0	5	80	15
OHIO	2	9	36	45	8
PA	2	11	21	41	25
S DAK	3	12	40	40	5
TEX	0	3	5	60	32
WISC	1	1	8	70	20
17 STATE	2	7	26	52	13
PREV WEEK	3	8	25	50	14
PREV YEAR	11	34	36	17	2

SOYBEANS

STATE	VP	P	F	G	EX
ALA	0	7	51	42	0
ARK	0	7	88	5	0
GA	0	3	21	68	8
ILL	0	0	16	73	11
IND	0	0	22	71	7
IOWA	1	6	44	47	2
KANS	0	11	15	22	52
KY	0	0	29	64	7
IA	2	18	59	21	0
MICH	0	5	20	55	20
MINN	1	3	41	46	9
MISS	5	30	55	10	0
MO	2	6	54	35	3
NEBR	7	23	51	19	0
N C	0	0	7	86	7
OHIO	2	12	37	43	6
S C	0	0	17	78	5
S DAK	1	4	33	57	5
TENN	0	10	53	37	0
19 STATE	1	7	38	47	7
PREV WEEK	1	8	36	48	7
PREV YEAR	5	24	51	19	1

GRAIN SORGHUM

STATE	VP	P	F	G	EX
ARK	0	2	26	61	11
ILL	0	0	10	89	1
KANS	1	10	30	39	20
IA	0	12	50	38	0
MISS	0	5	55	40	0
MO	0	3	28	63	6
NEBR	4	16	75	5	0
OKLA	0	0	13	85	2
S DAK	3	32	38	25	2
TENN	2	1	32	64	1
TEX	0	8	26	47	19
11 STATE	1	10	36	40	13
PREV WEEK	1	21	29	39	10
PREV YEAR	3	19	38	34	6

COTTON

STATE	VP	P	F	G	EX
ALA	0	4	39	57	0
ARIZ	0	0	0	71	29
ARK	0	0	74	26	0
CALIF	0	0	5	85	10
GA	0	1	33	63	3
IA	0	8	59	33	0
MISS	0	15	60	25	0
MO	0	11	89	0	0
N MEX	0	0	35	45	20
N C	0	0	14	82	4
OKLA	0	2	73	25	0
S C	0	0	5	95	0
TENN	5	0	74	21	0
TEX	0	9	61	27	3
14 STATE	0	6	52	38	4
PREV WEEK	0	9	47	40	4
PREV YEAR	1	3	36	55	5

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.; 1.00 to 3.00 in. local areas. Temperatures near to slightly above normal.

Days suitable for fieldwork 6.5. Soil moisture 67% short, 33% adequate. Continued hot, dry weather slowed cotton development, 1 to 3 weeks behind normal. Corn 95% mature, 93% 1988, 98% avg.; 53% harvested, 59% 1988, 60% avg.; 1% poor, 15% fair, 48% good, 36% excellent. Cotton 26% bolls opened, 71% 1988, 55% avg.; few fields harvested Limestone county; 4% poor, 39% fair, 57% good. Soybeans 89% blooming, 93% 1988, 97% avg.; 81% setting pods, 82% 1988, 90% avg.; 22% turning color, 18% 1988, 21% avg.; 13% dropping leaves, 8% 1988, 9% avg.; 7% poor, 51% fair, 42% good. Peanuts 29% dug, 4% 1988, 12% avg.; 14% combined, 2% 1988, 6% avg.; 65% fair, 35% good. Sorghum 45% harvested, 34% 1988, 34% avg.; 52% fair, 48% good. Livestock, pastures good to fair. Primary activities: Harvesting corn, sorghum, peanuts; cutting, baling hay; controlling insects in cotton; preparing land for winter annuals; maintaining harvest equipment; harvesting catfish, monitoring ponds; routine care of livestock, poultry.

ALASKA: Tanana valley dry, harvest active while Matanuska valley, Kenai Peninsula received added precipitation, limited harvest opportunities. Highs 1 to 12° above normal. Lows 7 to 10° above normal. Seasonal precipitation 1.12 in. below normal at Clearwater to 10.12 in. above normal at Anchorage.

Days suitable for harvest 3.0. Topsoil 38% short, 32% adequate, 30% surplus. Subsoil 30% short, 50% adequate, 20% surplus. 2nd crop hay harvest 50% complete. Barley harvest 90% complete. Commercial potato harvest at 15% complete, lagging behind last years 60% done. Tuber sizing was slowed by dry weather.

ARIZONA: Temperatures 1 to 5° above normal. Extremes 33°; 113°. Showers, thunderstorms early week south central, east; drier air by 9th; rainfall none to 0.67 in.

Cotton harvested 4%; reduced irrigations, preparing for defoliation; pink boll worm activity, treatments increased. Alfalfa hay good; harvesting moderate to active; weeds, insects light; army worm controls applied west; hay, roughage adequate. Corn good, 90% mature. Grain sorghum 100% turning color; excellent. West: lemon harvest continued; grapefruit harvest began; fall vegetable planting, irrigation continued. Raisins shipping continued central, western areas. Apple harvest, packing remained active east. Pistachios, green chilies, white corn, harvested. Fall lettuce planting continued.

ARKANSAS: Warm, light to moderate rainfall all areas. Extremes 56°; 97°. Rainfall none to 2.39 in.

Days suitable for fieldwork 7.0. Soil moisture 68% short, 32% adequate. Soybeans 94% blooming, 94% 1988, 97% avg.; yellowing 8%, 9% 1988, 12% avg. Rice 98% headed, 98% 1988, 98% avg.; ripe 33%, 47% 1988, 54% avg. Corn 71% harvested, 63% 1988, 75% avg. Main activities: Rice, sorghum, corn harvest; soybean irrigation; draining rice fields; cotton defoliation; spraying for boll weevils; harvesting, baling hay; fertilizing pastures; planting fall vegetables; mowing weeds;

preparing ground for seeding small grains. Cotton harvest started, few fields completed; spraying for boll weevils, bollworms continued. Rice yields excellent, desiccants applied to expedite harvest. Stem canker major problem in soybean fields southeast, fields completely wiped out. Sorghum fields plagued with midge insect. Corn yields good to excellent, harvest at rapid pace. Pecan potential good. Hay, pasture good. Livestock good.

CALIFORNIA: High pressure generally over the State. Near to slightly above normal temperatures in most areas first half. Cold low pressure trough north end of State latter part of week, pushed temperatures much below normal 7th, partial rebound 8th. No precipitation.

Field activities good progress entire week, open weather. Cotton picking began Riverside County. Defoliation increased, some early San Joaquin Valley fields. Draining rice increased. Bird damage. Safflower, seed alfalfa harvests winding down. Sugarbeet, corn, dry bean harvests ongoing. Alfalfa, Sudan harvests seasonally active. Preparations fall seeded small grains increased. Pest controls as needed. Picking, packing of apple crop continued. Avocados developing normal. Date harvest began, Figs continued. Table grape harvest active; Flame, Ruby, Thompson Seedless, Queen, Ribier, Red Globe. Large volumes of Red Globe, Christmas Rose arriving at cold storages. Raisin harvest in full swing. Many grapes continued to be placed on trays, dried raisins being rolled. Harvest of juice, wine grapes active. Last varieties of Freestone peaches, plums, nectarines picked. Olives developing normally. Clingstone peaches nearly 90% done. Pomegranates average size; Early Foothill packed. Prune harvest all but completed. New crop Navel oranges sizing very well. Valencia oranges being picked, packed. Lemon harvest began. Almond harvest continued in full swing. Walnut, pistachio harvests underway. Broccoli moderate supply good condition, Salinas, Santa Maria. Carrot packing, shipping active Kern district. Cauliflower light supply, variable quality, Salinas; volume down slightly Santa Maria. Heavy celery supplies continued central coast. Lettuce fairly heavy supply, good demand, quality variable. Early variety fall potatoes harvested. Strawberries continued moderate to fairly light supply Salinas, Santa Maria. Processing, market tomato harvest continued. Livestock generally good, Statewide. Range, pasture conditions continued decline seasonally as days got shorter. Rangeland grasses, water supplies Sacramento, San Joaquin Valleys, desert areas poor condition; northern counties fair to normal. Livestock movement to winter pastures moderate.

COLORADO: Light showers, thunderstorms over much of the State early in week. Mostly cloudy, much cooler with numerous thundershowers later in week. Precipitation 0.07 to 1.11 in. Temperatures 4 to 6° above normal statewide.

Days suitable for fieldwork 6.2. Soil moisture 33% very short, 36% short, 28% adequate, 3% surplus. 2nd cutting alfalfa 92% complete. 3rd cutting alfalfa 35% complete. Barley 93% harvested. Corn silage harvested 17%. Dry onions harvested 60%. Summer potatoes 47% harvested, fall potatoes 5% harvested. Sorghum 92% headed,

44% turning color, 18% mature. Sugarbeets mostly good. Livestock good, range, pasture fair to good.

FLORIDA: Temperatures 1 to 2° above normal, Panhandle, Peninsula, generally 1 to 2° below normal, northeast. Extreme highs low to mid 90s, Panhandle, Big Bend, interior Peninsula areas. Highs only around 90° along east coast. Extreme lows middle, upper 60s north, around 70° elsewhere. Showers, thundershowers most numerous across Peninsula; many areas under 0.50 in., local areas received 1.00 to 7.00 in. Rainfall much more widely scattered, Panhandle, Big Bend with most amounts under 0.25 in.

Soil moisture Panhandle, short to adequate; northern, central Peninsula mostly adequate; southern Peninsula adequate to surplus. Corn, peanut harvest active. Haying continued active, weather permitting. Cotton started to open. Sugarcane continued good progress. Soybeans stressed, drier Panhandle areas. Sugarcane planting active. Panhandle, northern Peninsula pastures fair to good; central, southern Peninsula good to excellent. Cattle good to excellent. Citrus trees near excellent. Moisture adequate. Abundant new growth. New crop fruit progressing well. Fresh fruit shipments increased. Caretakers disking, spraying, fertilizing, herbiciding. Daytime temperatures continued hot, vegetable producing areas. Precipitation varied widely: Hot weather, excessive rain delayed planting many areas. Crops planted included snap beans, celery, cucumbers, eggplant, peppers, squash, tomatoes.

GEORGIA: Temperatures within a degree or two seasonal normals. Warmest mid 80s mountains, low, mid 90s southwest. Lowest mid 50s mountains, mid 60s elsewhere. Rainfall under 0.50 in., several areas under 0.25 in. 1.00 to 3.00 in. extreme southeast, northwest.

Days suitable for fieldwork 5.1. Soil moisture 1% very short, 31% short, 57% adequate, 11% surplus. Cotton 0% harvested, 5% 1988, 3% avg. Sorghum grain 14% fair, 84% good, 2% excellent; 31% harvested, 19% 1988, 24% avg. Peanuts 23% fair, 76% good, 1% excellent; 27% dug, 4% 1988, 24% avg.; 11% threshed, 2% 1988, 14% avg. Spraying soybeans for insects. Tobacco harvest complete. Rye 2% planted, 2% 1988, 2% avg. Rye, other small grain planting average. Apples 49% fair, 51% good; 44% harvested, 57% 1988, 60% avg. Pecans 11% poor, 42% fair, 46% good, 1% excellent. Pasture 1% poor, 11% fair, 73% good, 15% excellent. Hay, pastures mostly good to excellent. Cattle, hogs good.

HAWAII: Generally favorable weather for agriculture continued. Warm, sunny conditions with beneficial showers promoted crop progress. Temperatures high 60s to low 90s with variable winds up to 25 mph. Rainfall none to 1.90 in.

Days suitable for farm work 7.0. Papaya orchards good. Sugar, pineapple harvesting continuous.

IDAHO: Temperatures 1 to 6° below normal, below freezing lows in east. Very little precipitation across State.

Days suitable for fieldwork 7.0. Soil moisture 6% very short, 20% short, 68% adequate, 6% surplus. Excessive late-August precipitation caused sprout damage to grain, north. Light frost, south central, affected dry beans, corn, potatoes. Winter wheat 6% seeded, 9% avg. Winter wheat harvest wrapping up, 96% avg. Spring wheat 94% harvested, 98% 1988, 87% avg. Spring barley 91% harvested, 98% 1988, 84% avg. Oats 82% harvested, 91% 1988, 87% avg. Potatoes good; 10%

harvested, 3% 1988, 6% avg. Third cutting alfalfa hay 41% harvested, 36% 1988, 29% avg. Sugarbeet, apple harvest underway. Peach harvest in final stages. Plums 80% harvested. Onions 30% harvested, 34% 1988, 38% avg. Dry beans 33% harvested. Lentils 92% harvested. Hops 42% harvested. Range, pasture condition improved with rain. Southeast ranges remained dry; cattle moved off range earlier than normal. Livestock good.

ILLINOIS: Temperatures 2 to 5° above normal. Rainfall 1.00 to 3.00 in. north, central; smaller amounts south.

Days suitable for fieldwork 4.25. Soil moisture 26% short, 60% adequate, 14% surplus. Soybeans turning color 50%, 67% 1988, 63% avg.; harvested 0%, 3% 1988, 4% avg. Alfalfa 3rd crop cut 79%, 92% 1988, 89% avg.; 17% fair, 67% good, 16% excellent. Pasture 1% poor, 36% fair, 52% good, 11% excellent.

INDIANA: Temperatures 3 to 6° above normal. Lows low to mid 60s, highs upper 70s to mid 80s. Precipitation 1.00 to 3.50 in.

Days suitable for fieldwork 2.6. Topsoil 2% short, 63% adequate, 35% surplus. Subsoil 6% short, 73% adequate, 21% surplus. Corn, soybean good. Soybean 30% turning yellow, 66% 1988, 65% avg. Tobacco 45% harvested, 38% 1988, 55% avg. 1990 winter wheat cropland 46% plowed, 47% 1989, 39% avg. Pasture 17% fair, 68% good, 15% excellent. Corn, soybean maturity behind normal due to late plantings, poor drying conditions.

IOWA: Temperatures none to 2° above normal. Extremes 40°; 87°. Rainfall 0.32 to 9.74 in., average 3.24 in.

Days suitable for fieldwork 2.5. Topsoil 9% short, 74% adequate, 17% surplus. Subsoil 92% short, 8% adequate. Corn fair to good. Soybean leaves turning color 52%, 87% 1988, 63% avg. Third crop alfalfa 92% harvested, 100% 1988, 85% avg. Hay 2% very poor, 18% poor, 43% fair, 33% good, 4% excellent. Livestock mostly good. Pasture 9% very poor, 20% poor, 39% fair, 28% good, 4% excellent.

KANSAS: Temperatures a low 70° northwest to high 77° southeast. Precipitation recorded most areas; district avg. low 0.27 in. northwest, high 3.64 in. northeast, 1.70 in. overall.

Days suitable for fieldwork 3.0. Topsoil 5% short, 62% adequate, 33% surplus. Subsoil 35% short, 57% adequate, 8% surplus. Corn, sorghum, soybean good to excellent. Crops development generally lags behind last year. Scattered showers provided much needed moisture crops, livestock. Insect, disease problems generally light. Range, pasture adequate most areas. Wheat seeding southwest, west central districts; most areas remain too wet for planting.

KENTUCKY: Warm, humid conditions. Precipitation near normal west, north below normal southeast. Temperatures 3° above normal. Precipitation 0.50 to 1.00 in. west, north, less than 0.25 in. southeast.

Days suitable for fieldwork 5.6. Soil moisture 2% very short, 17% short, 81% adequate. Corn harvest delayed high moisture content of grain. Condition good. Crop 50% mature. Soybeans fair to good; 89% podded, 10% shedding leaves. Tobacco fair to good. Burley 62% cut, 58% 1988, 67% avg. Dark tobacco 66% cut, 63% 1988, 63% avg. Reports of houseburn on early crop. Most damage to northern, eastern crop. Hay crops, pastures good to excellent.

LOUISIANA: Temperatures 3 to 4° above normal. Extremes 65°; 99°. Rainfall 0.19 to 1.78 in.

Days suitable for fieldwork 6.0. Soil moisture 12% very short, 51% short, 35% adequate, 2% surplus. Corn mature 100%, 100% 1988, 100% avg.; harvested 87%, 73% 1988, 86% avg. Cotton open bolls 50%, 72% 1988, 73% avg.; harvested 0%, 4% 1988, 6% avg.; 8% poor, 59% fair, 33% good. First picking has begun. Hay final cutting 60%, 40% 1988, 62% avg. Rice headed 100%, 99% 1988, 100% avg.; ripe 79%, 78% 1988, 87% avg.; harvested 70%, 62% 1988, 75% avg.; 48% fair, 52% good. Sorghum turning color 98%, 91% 1988, 97% avg.; ripe 82%, 70% 1988, 88% avg.; harvested 57%, 40% 1988, 70% avg.; 12% poor, 50% fair, 38% good. Soybeans blooming 100%, 98% 1988, 100% avg.; setting pods 94%, 90% 1988, 96% avg.; leaves turning 24%, 11% 1988, 27% avg. shedding leaves 9%, 4% 1988, 9% avg.; 2% very poor, 18% poor, 59% fair, 21% good. Extreme hot weather is causing rapid maturation. Sugarcane planted 50%, 23% 1988, 32% avg.; 19% fair, 81% good. Sweet potatoes harvested 28%, 34% 1988, 47% avg.; 59% fair, 41% good. Vegetable 6% very poor, 9% poor, 65% fair, 20% good. Pasture 2% poor, 38% fair, 58% good, 2% excellent. Armyworms are problems in many fields. Livestock 11% fair, 87% good, 2% excellent.

MARYLAND & DELAWARE: MARYLAND: Precipitation 0.01 in. Temperatures 69°, normal 71°. Extremes 44°; 89°.

Days suitable for fieldwork 6.9. Topsoil 35% very short, 45% short, 20% adequate. Subsoil 5% very short, 35% short, 55% adequate, 5% surplus. Field corn good; dough stage 85%, 93% 1988, 96% avg.; dent stage 79%, 76% 1988, 83% avg.; mature 33%, 37% 1988, 37% avg.; harvested for grain 5%, 5% 1988, 7% avg.; harvest for silage 36%, 42% 1988, 51% avg. Soybeans far to good; turned 8%, 6% 1988, 17% avg.; shedding leaves 2%, 0% 1988, 4% avg. Tobacco fair; topped 81%, 91% 1988, 93% avg.; harvested 58%, 63% 1988, 63% avg. Pasture good. All hay supplies good.

DELAWARE: No precipitation. Temperatures 69°, normal 71°. Extremes 50°; 87°.

Days suitable for fieldwork 7.0. Topsoil 43% very short, 57% short. Subsoil 43% short, 57% adequate. Soybeans fair to good; setting pods 79%, 90% 1988, 88% avg.; tuned 2%, 4% 1988, 15% avg. Field corn good; dough stage 98%, 95% 1988, 99% avg.; dent stage 85%, 86% 1988, 88% avg.; mature stage 31%, 24% 1988, 44% avg.; harvested for grain 5%, 5% 1988, 9% avg.; harvested for silage 33%, 58% 1988, 59% avg. Pasture fair. Hay supplies adequate.

MICHIGAN: Temperatures 5 to 7° above normal. Extremes 38°; 87°. Precipitation none to 4.06 in. across State.

Days suitable for fieldwork 4.0. Soil moisture 15% short, 55% adequate, 30% surplus. Corn 40% dent, 65% 1988, 65% avg.; mature 0%, 10% 1988, 15% avg.; harvested 0%, 0% 1988, 0% avg.; 5% poor, 15% fair, 50% good, 30% excellent. Soybeans 93% setting pods, 100% 1988, 100% avg.; dropping leaves 3%, 10% 1988, 15% avg.; 5% poor, 20% fair, 55% good, 20% excellent. Dry beans 55% turning, 65% 1988, 85% avg.; 2% very poor, 10% poor, 23% fair, 50% good, 15% excellent. Major activities: Hay making, corn silage chopping, wheat ground tiling, preparing equipment for fall harvest. Apple growers beginning to harvest McIntosh. Grape growers concerned about fungus diseases in the vineyards. Sweet corn harvest is winding down.

MINNESOTA: Temperatures normal to 5° above normal. Extremes 32°; 85°. Precipitation 0.17 to 1.51 in. Greatest weekly total 3.21 in.

Days suitable for fieldwork 4.0. Topsoil 1% very short, 14% short 79% adequate, 6% surplus.

Corn 35% mature, 75% 1988, 35% avg.; 1% combined, 0% 1988, 0% avg. Soybeans 39% shedding leaves, 88% 1988, 40% avg.; 8% mature, 41% 1988, 14% avg.; 1% combined, 6% 1988, 2% avg. Sugarbeets 1% harvested, 0% 1988, 1% avg. Dry Beans 23% harvested, 38% 1988, 30% avg. Potatoes 15% harvested, 31% 1988, 23% avg. Sweet corn 87% harvested, 97% 1988, 83% avg. Flax 55% harvested, 57% 1988, 52% avg. Winter Wheat 57% seeded, 70% 1988, 52% avg. Rye 60% seeded, 72% 1988, 52% avg. Field corn 12% cut for silage, 47% 1988, 22% avg. Hay, grain 60% tilled, 66% 1988, 53% avg. Corn 1% very poor, 5% poor, 31% fair, 53% good, 10% excellent. Soybeans 1% very poor, 3% poor, 41% fair, 46% good, 9% excellent.

MISSISSIPPI: Hot, dry. Temperatures 2° above normal. Extremes 62°; 97°. Rainfall 0.54 in., 0.40 in. below normal.

Days suitable for fieldwork 6.4, 4.9 1988, 5.6 avg. Soil moisture 15% very short, 45% short, 40% adequate. Corn good; 39% harvested, 29% 1988, 46% avg. Cotton fair; 32% open bolls, 72% 1988, 74% avg. Hay 80% harvested, 80% 1988, 84% avg. Rice good; 8% harvested, 12% 1988, 28% avg. Sorghum fair to good; 27% harvested, 26% 1988, 44% avg. Soybeans fair to poor; 77% podding, 79% 1988, 87% avg. Early varieties harvested. Sweet potatoes 45% harvested, 29% 1988, 31% avg. Pastures, livestock good. Pecans 15% very poor, 30% poor, 30% fair, 25% good. Activities: Insect control, harvesting rice, corn, milo, hay, silage.

MISSOURI: Temperatures slightly above normal, normal Kansas City to 4° above normal St. Louis. Flooding northwest, west central over 5.00 in. rain local areas. Over 2.00 in. west central, northern areas, 1.00 to 2.00 in. central, southwest, 0.75 in. east central, under 0.50 in. southeast.

Days suitable for fieldwork 3.5. Topsoil 22% short, 61% adequate, 17% surplus. Largest shortages east central, south central, southeast. Largest surplus northwest, west central. All crops maturing more slowly than average. Corn all mature southeast, 50% or less mature elsewhere. Corn in many fields northwest lying down from wind damage. Sorghum 68% mature southeast, 21% or less elsewhere. Pasture 1% very poor, 5% poor, 32% fair, 49% good, 13% excellent. Livestock water supply 3% critically short, 18% short, 79% adequate.

MONTANA: First of week dry with near normal temperatures. Midweek temperatures below normal. Rainfall 0.10 to 0.30 in.

Days suitable for fieldwork 4.8. Topsoil 27% short, 67% adequate, 6% surplus. Subsoil 38% short, 56% adequate, 6% surplus. Small grain harvest delayed from late August by frequent rains. Winter wheat harvested 90%, 100% 1988, 100% avg. Barley 65% harvested, 96% 1988, 87% avg. Oats harvested 75%, 97% 1988, 89% avg. Corn silage harvested 13%, 59% 1988, 18% avg. Dry beans 21% harvested, 40% 1988, 18% avg. Second cutting alfalfa 75% harvested, 93% 1988, 88% avg. Pasture, range feed 1% very poor, 7% poor, 28% fair, 54% good, 10% excellent.

NEBRASKA: Temperatures 4° below normal in west to 1° above normal in east. Extremes 38°; 96°. Rainfall 1.00 to 2.00 in. with heavier amounts in south, east 5.00 to 8.00 in.

Days suitable for fieldwork 2.9. Topsoil 13% short, 53% adequate, 34% surplus. Subsoil 69% short, 31% adequate. Soybeans 45% turning color, 82% 1988, 53% avg. Late planted soybeans in northeast, east may have been helped by rain. Alfalfa hay 1% very poor, 12% poor, 45% fair, 40% good, 2% excellent. 85% third cutting, 92% 1988,

86% avg. Wheat planting, hay harvest slowed by rain. North eastern growers making fourth cutting, crop looks good. Hail damaged crops in the Panhandle, north and east. High winds in east caused breakage of stalks above ears, exposed heavy corn borer infestations. Expected early harvest to reduce ear loss. Lowland flooding in east damaged crops during week, again after heavy rains on the 8th. Late maturing crops causing concerns over an early frost. Pasture, range feed 22% very short, 58% short, 20% adequate. Pastures greening up as cool season grasses respond to rain. Hay, roughage 10% very short, 68% short, 22% adequate. Hay for winter a major concern for cattlemen. Main activities: Cutting hay, silage; sowing wheat; harvesting dry edible beans in west; odd jobs; maintenance.

NEVADA: Dry condition with warming trend early. Pacific cold front midweek brought gusty winds, lower temperatures most areas. Light showers recorded across northern portion. South dry, warm, with gusty winds. Temperatures near to little above normal west, south, below normal northeast.

Digging 1989 potato crop gaining momentum main producing area. Alfalfa seed combining made good progress due lack of precipitation, mild weather. Wild hay harvest completed earlier than usual. Ranges continued to deteriorate.

NEW ENGLAND: Fair weather dominated State. No precipitation. Temperatures 60° near Canadian border to mid 60s along south coast. Temperatures slightly above normal north, slightly below normal south.

Days suitable for fieldwork 6.5. Fieldwork progress 1.5 days behind. Soil moisture 25% short, 75% adequate. Grazing availability 17% short, 83% adequate north; 33% short, 50% adequate, 17% surplus south. Maine potatoes 8% harvested, 5% 1988, 7% avg.; good. Connecticut River Valley potatoes 33% dug, 21% 1988, 29% avg.; good. Maine oats good to excellent. Field corn good. Sweet corn 82% picked, 88% 1988, 83% avg.; good. Connecticut shade tobacco 98% harvested; good. Connecticut outdoor tobacco 98% harvested; fair to good. Second crop hay 79% cut, 89% 1988, 90% avg.; good. Third crop hay 50% harvested, 59% 1988, 52% avg.; good to excellent. Apples 24% picked, 8% 1988, 11% avg.; good; color fair to good; medium to large size. Peaches 71% picked; good to excellent. Pear good to excellent. Blueberry harvest complete. Maine lowbush blueberry harvest finished. Cranberry dry harvest just beginning; wet harvest to start in 1 to 2 weeks. Major farm activities: Haying, vegetable, fruit harvesting, fall tillage.

NEW JERSEY: Temperatures near normal. Extremes 40°; 96°. Rainfall none north, central, south. Trace amounts precipitation across State. Estimated soil moisture percent field capacity averaged 58% north, 45% central, 34% south. Four inch soil temperatures 64° north, 66° central, 68° south.

Weather good for fieldwork. Topsoil short. Summer vegetable marketings mostly light; fall crop growth good. Irish, sweet potato digging advanced. Peach harvest moved into final week. Light fall apple harvest began. Corn silage making active. Late soybeans continue to set pods. Hay cut. Soil preparation, planting of small grains increased. Pasture growth limited.

NEW MEXICO: Rain fell most locations; heaviest amounts over northern, south central areas.

Days suitable for fieldwork 6.4. Soil moisture 40% short, 60% adequate. Cotton bolls open 47%; 35% fair, 45% good, 20% excellent. Wheat planted

60%. Cattle 40% fair, 50% good, 10% excellent. Sheep 40% fair, 50% good, 10% excellent. Ranges, pastures 60% fair, 40% good.

NEW YORK: Dry across region. Temperatures near or slightly below normal early week, near or above normal midweek, well above normal by weekend.

Days suitable for fieldwork 6.0. Soil moisture short to mostly adequate. Pasture, hay fair to good. Corn mostly good. Second cutting alfalfa 93% complete, third cutting 31%, 39% 1988, 38% average. Vegetable harvest at peak. Orange County onion harvest in full swing, good to very good. Late season storage cabbage growing well. Tree fruits good. McIntosh harvest underway. Lake Ontario Bartlett pear harvest near completion. Late season peach harvest active.

NORTH CAROLINA: Temperatures none to 2° above normal across State. Extremes 51°; 91°. Precipitation none to 2.69 in.

Days suitable for fieldwork 5.6. Soil moisture 14% short, 83% adequate, 3% surplus. Pasture 18% fair, 76% good, 6% excellent. Livestock feed from pasture 80%. Crop condition: Tobacco 5% poor, 32% fair, 63% good; sweet potatoes 3% poor, 19% fair, 78% good; apples 15% poor, 30% fair, 55% good; truck crops 3% poor, 24% fair, 70% good, 3% excellent; peanuts 32% fair, 68% good; sorghum 16% fair, 79% good, 5% excellent; hay 18% fair, 79% good, 3% excellent. Hay second cutting 75% completed, third cutting 41% completed. Hay, roughage 87% adequate, 13% surplus. Harvesting completed: Flue-cured tobacco 76%, 70% 1988, 72% avg.; burley tobacco 22%, 33% 1988, 45% avg.; corn silage 53%, 57% 1988, 65% avg.; apples 39%, 20% 1988, 26% avg.; sorghum 9%, 19% 1988, 17% avg.; sweet potatoes 15%, 10% 1988, 10% avg. Major activities: Harvesting tobacco; cutting hay. Other activities: Spraying crops; harvesting apples, truck crops, corn silage; marketing tobacco, vegetables; preparing land for small grain planting; tending livestock; general farm maintenance.

NORTH DAKOTA: Temperatures 1° below to 3° above normal. Precipitation 0.14 in. southeast to 1.00 in. north central.

Days suitable for fieldwork 6.1. Topsoil near average, 11% very short, 49% short, 40% adequate; 5-year average 25% very short, 27% short, 46% adequate, 2% surplus. Subsoil below average, 36% very short, 54% short, 10% adequate; average 28% very short, 24% short, 48% adequate. Row crops poor to fair. Sunflower 12% very poor, 18% poor, 54% fair, 16% good; flax 10%, 35%, 55%, none; dry edible beans none, 60%, 36%, 4%; potatoes 97% poor, 3% fair. Most row crop progress near average. Sunflower 24% bracts turned brown or beyond; dry edible beans 12% combined; flax 45% combined; corn for silage 25% cut; potatoes behind average, 6% dug, 22% average. Pasture 8% very poor, 49% poor, 34% fair, 9% good.

OHIO: Warm, humid. Highs 80s; lows mid 60s. Rainfall 0.40 to 1.20 in. Growing degree days accumulated fast; 160 to 175.

Days suitable for fieldwork 5.9. Soil moisture 21% short, 74% adequate, 5% surplus. Field activities: Spraying pesticides, clipping pastures, idle cropland, harvesting crops. Corn fair to good; needs 2 weeks to mature. Soybeans fair to good; need 3 weeks to mature. Only few bean leaf beetle problems. Hay, pastures fair to good.

OKLAHOMA: Temperatures 3° below normal north central to 1° above southern third. Precipitation 0.27 in. northeast to 2.39 in. east central.

Days suitable for fieldwork 5.1. Topsoil 25% short, 65% adequate, 10% surplus. Subsoil 15% short, 85% adequate. Wheat 15% planted, 5% 1988, 10% avg. Cotton 2% poor, 73% fair, 25% good; 10% open bolls, 15% 1988, 10% avg. Sorghum 13% fair, 85% good, 2% excellent; 85% coloring, 70% 1988, 85% avg.; 10% mature, 10% 1988, 20% avg.; 1% harvested, 2% 1988, 3% avg. Soybeans 15% mature, 1% 1988, 15% avg. Peanuts 10% mature, 45% 1988, 10% avg. Corn 20% harvested, 35% 1988, 40% avg. Pasture good. Cattle good; marketings stable, prices down from preceding week.

OREGON: Temperatures near normal entire State; some coastal locations, northeast slightly below; elsewhere 1 to 2° above. No precipitation.

Soil moisture 37% short, 63% adequate. Winter wheat harvest essentially complete. Barley harvest winding down Klamath Basin, other high elevation counties east. Rapidly finishing rodweeding on summer fallow ground to prepare for winter wheat seeding Columbia Basin. Russian wheat aphid present. Hop harvest continued Willamette Valley. Mint harvest winding down west. Started Red clover seed harvest Willamette Valley. Field preparations on going for Crimson clover, grass seed planting west. Last hay cutting most areas. Winter pear harvest in full swing Jackson County. Anjou harvest underway Hood River. Bartlett pears all done Willamette Valley; a few winter pears remain to be harvested. Apple picking continued Milton-Freewater; early varieties Hood River. Peach harvest essentially completed Willamette Valley. Fall raspberries, everbearing strawberries harvested west. Preparing orchard floors for hazelnut harvest. Cranberry development continued good. Potato digging continued Hermiston-Boardman, Malheur County. In Willamette Valley: snap bean harvest neared completion; sweet corn, table beet harvest in full swing, good yields; also harvesting broccoli, cucumbers, cole crops. Milton-Freewater: Harvesting spring seeded onions, lima beans; planting 1990 crop Walla Walla sweet onions. Livestock mostly good. Range, pasture mostly fair.

PENNSYLVANIA: Cool side, then temperatures gradually increased through week. Rainfall below normal, 0.24 in. across western part of State, little or none in eastern sections. Temperature 67°, 10° above normal. Extremes 38°; 89°. Precipitation 0.24 in., 0.61 in. below normal.

Days suitable for fieldwork 6.0. Soil moisture 80% short, 18% adequate, 2% surplus. Corn 97% silk, 99% 1988, 100% avg.; 68% dough, 80% 1988, 92% avg.; 25% dent, 38% 1988, 54% avg.; 2% mature, 9% 1988, 10% avg.; none harvested, none 1988, 1% avg. Ensilage corn harvested 10% complete, 16% 1988. Corn 2% very poor, 11% poor, 21% fair, 41% good, 25% excellent. Soybean 6% poor, 22% fair, 47% good, 25% excellent. Wheat planted 22% complete, 8% 1988. Oat harvest 99% complete, 100% 1988. Barley planted 20% complete, 10% 1988. Tobacco harvest 67% complete, 50% 1988. Potato harvest 50% complete, 37% 1988. Second cutting alfalfa 92% complete, 97% 1988. Third cutting alfalfa 55% complete, 77% 1988. Fourth cutting alfalfa 22% complete, 26% 1988. Second cutting clover-timothy 77% complete, 91% 1988. Quality of hay made good to fair. Feed from pastures average. Apple harvest 25% complete, 30% 1988. Peach harvest 83% complete, 75% 1988. Grape harvest 12% complete, 5% 1988. Fall plowing 38% complete, 38% 1988. Activities: Harvesting hay, haylage, oats, potatoes, apples, peaches, vegetables, tobacco, grapes, corn silage; fall plowing, planting; controlling weeds, insects; maintaining machinery, caring for livestock.

PUERTO RICO: Data Not Available.

SOUTH CAROLINA: Rainfall 0.50 in. statewide. Temperatures near normal.

Days suitable for fieldwork 5.2. Soil moisture 30% short, 68% adequate, 2% surplus. Cotton 5% fair, 95% good, 23% open bolls, 37% 1988, 53% avg. Soybeans 17% fair, 78% good, 5% excellent; 93% blooming, 98% 1988, 97% avg.; 79% setting pods, 81% 1988, 82% avg.; 10% leaves turning, 8% 1988, 6% avg.; 1% shedding leaves, 2% 1988, 2% avg. Tobacco good, 87% harvested, 87% 1988, 93% avg.; 22% stalks destroyed, 17% 1988, 29% avg. Corn good, 93% matured, 94% 1988, 98% avg.; 39% harvested, 33% 1988, 50% avg. Sorghum good, 25% harvested, 18% 1988, 21% avg. Peanuts good, 11% harvested, 2% 1988, 4% avg. Hay, livestock, pastures good.

SOUTH DAKOTA: Temperatures 3° above to 3° below normal. Extremes 37°; 100°. Growing season precipitation below normal generally. Range 6.72 in. below normal to 2.52 in. above normal. Precipitation 2.00 in. east, 0.50 to 1.00 in. southwest, less than 0.33 in. south central, 1.00 to 2.00 in. southeast.

Days suitable for fieldwork 5.7. Topsoil 33% critically short, 43% short, 23% adequate, 1% surplus. Subsoil 50% critically short, 40% short, 10% adequate. Corn, soybean good to fair, sorghum fair to poor. Major activities harvesting silage, working ground, fall seeding, working, moving cattle.

TENNESSEE: Temperatures normal Statewide. Precipitation much below normal.

Days suitable for fieldwork 5.7. Soil moisture 3% very short, 39% short, 58% adequate. Corn 62% mature, 55% 1988, 65% avg.; 64% harvested silage, 56% 1988, 69% avg.; 8% harvested grain, 9% 1988, 15% avg. Burley tobacco 66% harvested, 57% 1988, 64% avg. Dark fired 74% harvested, 57% 1988, 63% avg. Dark air-cured 72% harvested, 61% 1988, 65% avg. Tobacco harvest progressing rapidly. Hay still being cut.

TEXAS: Some record high temperatures early week. Air mass which had dominated State weather weaken, moved northward, stronger influx coastal storms. End of week, Gulf thunderstorms moving well inland. Rainfall slightly below normal most locations. Exceptions southern High Plains, Rolling Plains, east. Temperatures below normal in rain areas west. Coastal cloudiness kept Coastal Bend temperatures slightly below normal.

Crops: Corn grain harvest underway High Plains. Silage harvest winding down. Harvest good progress Blacklands, winding down late week. Harvest nearing completion northeast. Producers other areas completed harvest. Grain sorghum harvest just beginning few dryland fields Plains; most harvest begin later. Late frost would help. Headworm problems still remain, producers spraying. Other fields turning color, maturing Plains. Harvest continued Low Plains, Cross Timbers. Harvest winding down Blacklands, east. Harvest mostly complete Upper Coast. Sorghum 97% headed, 100% 1988, 99% avg. Cotton harvest continued steady Blacklands southward. Operations completed Coastal Bend. Second picking occurred Upper Coast. Bolls rapidly opening much of Plains, Cross Timbers; continued warmer weather, late frost needed for crop to reach good potential. Bollworms active many fields, spraying continued. Bolls rapidly opening Trans-Pecos. Cotton setting bolls 98%, 100% 1988, 99% avg. Cotton harvested 13%, 15% 1988, 13% avg. Small grain seeding active Plains, fields up to good stand. Land preparations, planting continued Blacklands. Dry conditions central could delay plantings. Rice harvest continued Upper Coast.

Producers watering, fertilizing second crop. Dryland peanuts beginning to stress portions Cross Timbers, central. Good rain would help these areas. Insect damage scattered fields. Irrigation increased because drying conditions; irrigated fields look good. Soybeans good progress Plains, irrigation increased some fields. Spraying insects continued. Harvest continued northeast, Upper Coast good yields. Sugarbeets looking good High Plains. Harvest begin on schedule late September. Other crops: Peanuts harvested none, 4% 1988, 5% avg. Soybeans harvested 20%, 21% 1988, 11% avg. Sunflowers harvested 7%, 9% 1988, 5% avg. Oats planted 2%, 5% 1988, 5% avg.

Commercial Vegetables: Rio Grande Valley, fall crops up, growing well. Few scattered fields poor stands. Other plantings continued without delay. San Antonio-Winter Garden, cabbage, carrot planting underway. Eastern area, planting continued without delay. Sweet potato harvest continued. High Plains, harvest cabbage, carrots, cucumbers, peppers continued. Yields good. Trans-Pecos, land preparations continued some vegetables. Peppers look good. Across State, dry conditions, insects plague pecan crop some areas.

Range and Livestock: Conditions declined with continued dry weather many areas. Produces moving livestock allow for lack of forage. Haying operations slowed as growth of grasses slowed. Livestock basically good. Good supplies of hay.

UTAH: Temperatures 1° above normal in western, northern parts, 3° above normal in southern, east central parts. Precipitation light amount in three areas.

Days suitable for fieldwork 7.0. Soil moisture 100% short. Fall tillage, planting continued. Winter wheat 50% seeded, 29% 1988, 39% avg. Harvest operations ongoing. Oats for grain 94% harvested, 94% 1988, 92% avg. Third cutting alfalfa hay 70% completed, 58% 1988, 43% avg. Field corn in dent stage 53%, 63% 1988, 50% avg.; mature 24%, 30% 1988, 18% avg.; silage 8% harvested, 19% 1988, 11% avg. Peaches 70% picked, 66% 1988, 68% avg. Onion harvest 22% completed, 11% 1988, 14% avg. Potato harvest 9% completed, 14% 1988, 9% avg. Cattle 7% moved from summer ranges, 10% 1988, 2% avg. Cattle moved early due to poor range. Sheep moved from summer ranges 5%, 6% 1988, 1% avg. Range extremely dry, feed supply short.

VIRGINIA: Cool, dry. Temperatures 2° below normal. Extremes 44°; 90°. Rainfall light none to 1.00 in.

Days suitable for fieldwork 5.3. Topsoil levels 2% very short, 38% short, 54% adequate, 6% surplus. Soybean 28% fair, 66% good, 6% excellent. Peanuts fair to good. Livestock 9% fair, 64% good, 27% excellent. Pastures 19% fair, 38% good, 43% excellent. Corn 52% mature, 60% 1988, 58% avg.; silage harvest 25% complete, 26% 1988, 32% avg.; grain harvest 11% complete, 2% 1988, 13% avg. Soybean harvest not started yet. Flue-cured tobacco 64% harvested, 40% 1988, 47% avg. Fire-cured 90% harvested, 53% 1988, 56% avg. Burley harvest 36% complete, 12% 1988, 30% avg. Sun-cured harvest nearly complete. Peanut digging, barley planting commenced.

WASHINGTON: Temperatures normal to 7° below normal, east; 3° above normal to 3° below normal, west. Precipitation none to 0.19 in., east; none to 0.02 in., west.

Days suitable for fieldwork 7.0. Soil moisture 35% short, 65% adequate. Range, pasture 25% short, 75% adequate. Hay, other roughage 10% short, 80% adequate, 10% surplus. Grain harvest was completed in many areas, progressing quickly in areas with rainfall in August. Sprout damage is widespread in the wheat harvested in September. High concentrations of Russian wheat aphids in eastern Washington. Winter wheat harvested 97%, 100% 1988, 100% avg. Spring wheat harvested 96%, 100% 1988, 99% avg. Barley harvested 96%, 100% 1988, 100% avg. Planting, preparation for fall cereal seedings were the major activities. Winter wheat planted 20%, 38% 1988, 32% avg.; emerged 4%. Progress of other harvests: Potatoes 26%, 33% 1988, 30% avg.; dry beans 9%, 29% 1988, 36% avg.; corn silage 20%, 22% 1988, 23% avg.; third cutting alfalfa hay 71%, 70% 1988, 76% avg. Harvests of apples, peaches, pears, carrots, tomatoes, onions, sweet corn, lima beans, squash, watermelons continued.

WEST VIRGINIA: Temperature 70°, 1 to 4° above normal. Extremes 41°; 95°. Precipitation 0.50 in.; 0.75 in. below to 0.53 in. above normal.

Days suitable for fieldwork 5.0. Soil moisture 13% short, 87% adequate. Corn good to excellent; 99% silked, 59% dough stage, 13% mature. Oats good to fair; 93% harvested. Tobacco fair to poor; 89% topped, 35% harvested. Hay good to excellent; 2nd cutting 63% complete, 3rd cutting 29% complete. Apples fair; harvest continues. Farm activities: harvesting hay, tobacco, oats, topping tobacco, farm maintenance, chopping corn silage, clipping pastures, marketing, moving cattle.

WISCONSIN: Temperature 66°, 3° above normal. Extremes 36°; 86°. Precipitation 0.50 to 1.60 in, heaviest west, south.

Days suitable for fieldwork 4.6. Soil moisture 32% short, 62% adequate, 6% surplus. Pasture 73% of normal, 50% 1988, 77% avg. General condition of crops 2% poor, 16% fair, 78% good, 4% excellent. Corn slow maturing; dent 54%, 83% 1988, 68% avg.; 10% mature, 48% 1988, 29% avg.; 1% very poor, 1% poor, 8% fair, 70% good, 20% excellent. Silo filling 4% complete, 27% 1988, 14% avg.; development slow; 20% turned, 61% 1988, 43% avg.; 10% fair, 78% good, 12% excellent. Third cut hay 45% completed, 62% 1988, 52% avg.

WYOMING: Temperatures above normal most of State, except west. Precipitation above normal, except west.

Days suitable for fieldwork 6.0. Topsoil 62% short, 38% adequate. Barley 10% mature, 5% 1988, 10% avg.; 90% harvested, 95% 1988, 90% avg. Spring wheat 0% mature, 0% 1988, 5% avg.; 100% harvested, 100% 1988, 95% avg. Oats 10% mature, 5% 1988, 15% avg.; 90% harvested, 95% 1988, 85% avg. Dry beans 95% leaves turning color, 100% 1988, 90% avg.; 30% windrowed, 80% 1988, 55% avg.; 10% combined, 45% 1988, 35% avg. Corn 5% milk, 5% 1988, 5% avg.; 45% dough, 35% 1988, 35% avg.; 45% dented, 45% 1988, 50% avg.; 5% mature, 15% 1988, 10% avg. Corn silage 20% harvested, 25% 1988, 30% avg. Potatoes 20% harvested, 10% 1988, 15% avg. 1990 winter wheat 60% seeded, 25% 1988, 50% avg.; 15% emerged, 5% 1988, 20% avg. Alfalfa second-cutting 90% complete, 95% 1988, 90% avg.; third-cutting 30% complete, 45% 1988, 30% avg. Hay, roughage 20% very short, 40% short, 40% adequate. Livestock feed obtained from pastures 90%.

International Weather and Crop Summary

September 3-9, 1989

HIGHLIGHTS

USSR ... In Western USSR, widespread precipitation over southern areas provides abundant topsoil moisture for winter grain planting but delays early summer crop harvesting. In the New Lands, mild, dry weather helps spring grain harvesting progress without delay.

EUROPE ... Heavy rain causes flooding in sections of Spain and Romania. Mostly dry weather favors fieldwork in the northwest.

SOUTH ASIA ... Dry weather covers most northern and central areas, reducing moisture for immature crops.

EASTERN ASIA ... Very heavy rain continues to flood sections of Japan and South Korea. Mostly dry weather favors early harvest in the North China Plain.

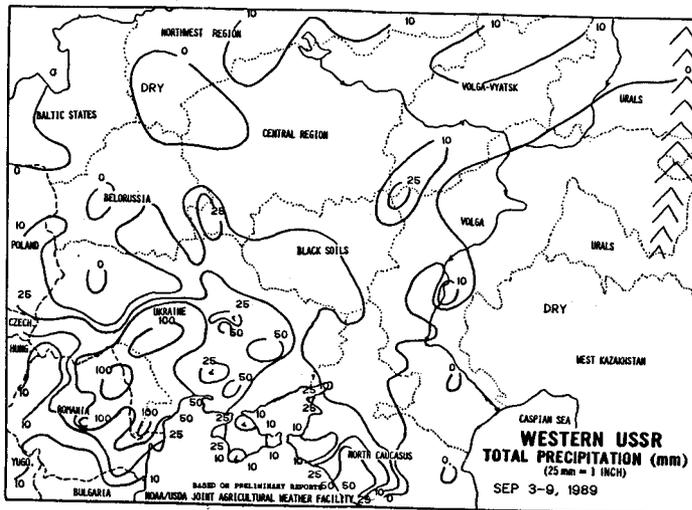
SOUTHEAST ASIA ... Much needed rain benefits Thailand's northern rice. Typhoon Sarah brings heavy rain to the northern Philippines.

SOUTH AMERICA ... In Argentina, dry, cool weather allows fieldwork in preparation for summer crop planting. Widespread rain soaks crop areas of south-central Brazil.

AUSTRALIA ... Warmer-than-normal temperatures accelerate early growth of winter grains.

CANADA ... Widespread, locally heavy rain continues across the Prairies, slowing harvesting and threatening crop quality.

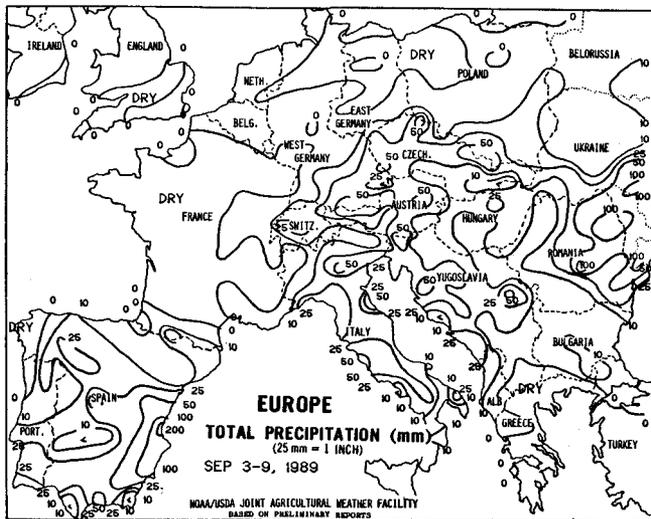
MEXICO ... Widespread showers cover all but north-central portions of the country as the harvest season gets underway.



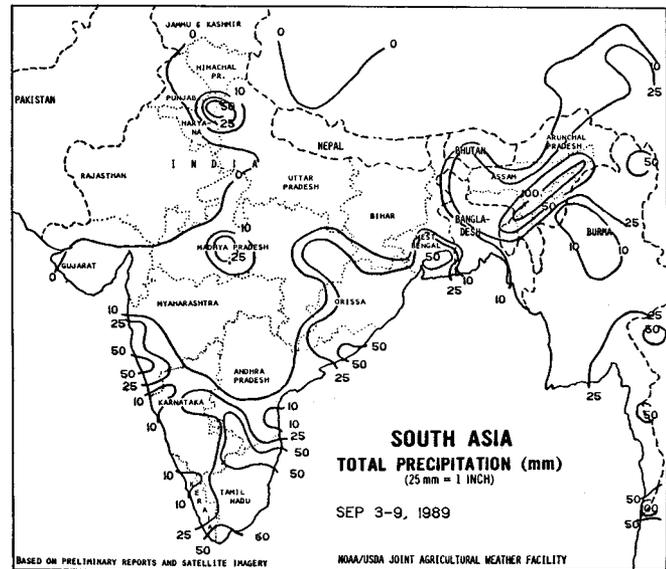
USSR ... In Western USSR, widespread precipitation continued over the southern Ukraine and spread into the central North Caucasus. Rainfall amounts generally ranged from 25 to 50mm with heaviest precipitation (more than 80mm) covering crop areas in and around Moldavia. The rain provided abundant topsoil moisture for winter grain planting but slowed corn and sunflower maturation, causing early harvest delays. Welcomed drier weather (precipitation less than 10mm) over the Baltic States, Belorussia, and the northwestern Ukraine allowed fieldwork for spring grain harvesting and winter grain planting to resume without delays. Elsewhere, light precipitation (10-20mm) over the Black Soils Region favored winter grain emergence. Mostly dry weather in the extreme eastern Ukraine, northern North Caucasus, and the lower Volga helped early corn and sunflower harvests. Weekly average temperatures were near normal in the west and north and 2 to 4 degrees Celsius (C) above normal in the Black Soils Region, the Volga, and the North Caucasus.



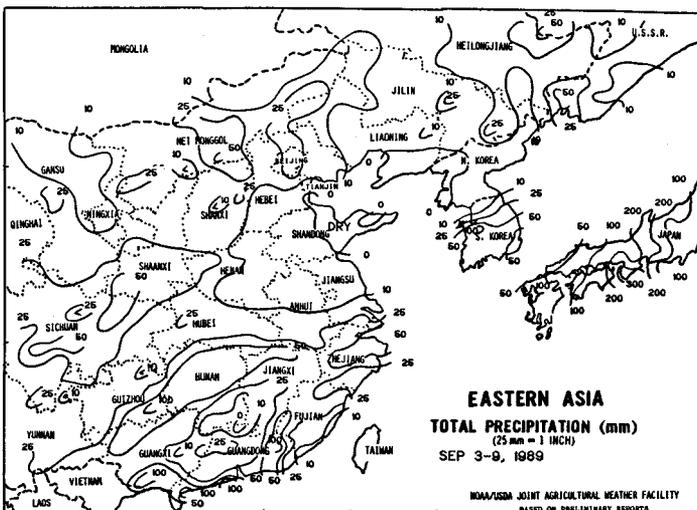
In the New Lands, spring grain harvesting continued throughout the region. Dry weather over most areas was accompanied by near to above-normal temperatures, favoring drydown of maturing crops and helping the harvest progress without delays.



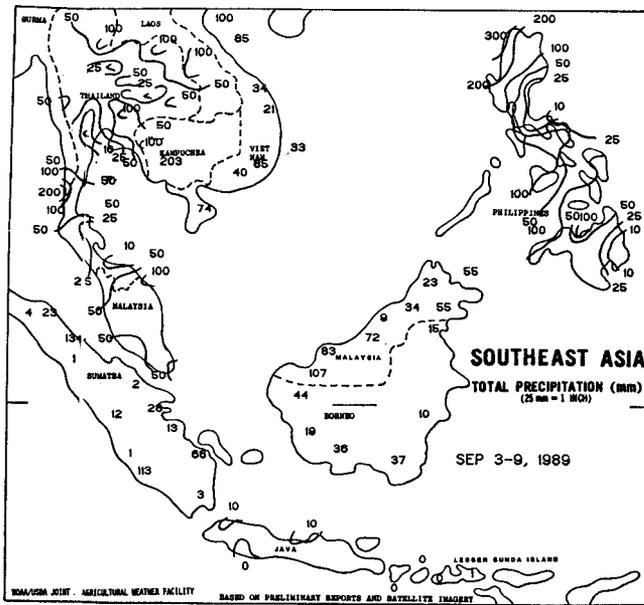
EUROPE ... Severe thunderstorms brought moderate to heavy rain (10-50mm, with isolated amounts from 100 to 207mm) to much of the Iberian Peninsula from the 5th to 7th, causing localized flooding and crop damage in eastern coastal Spain but ending unusually dry weather that has persisted over much of the region since June. In contrast, mostly dry weather covered much of northwestern Europe, favoring summer crop harvest and fieldwork for fall planting of winter grains. In the east, widespread rain (10-50mm, with isolated amounts in excess of 50mm) delayed fall harvest across Czechoslovakia, Austria, Hungary, Italy, Yugoslavia, Bulgaria, and Romania. Very heavy rain (100-162mm) likely caused localized flooding in sections of northeastern Romania. Mean temperatures were below normal across all of the continent except the northeast, where they were near normal.



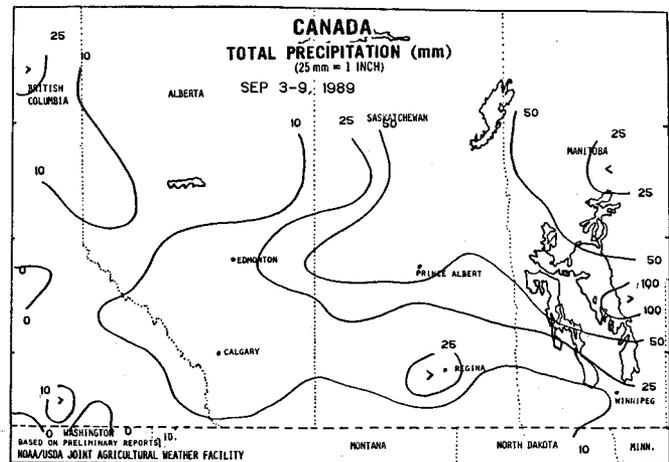
SOUTH ASIA ... Dry, seasonably warm weather covered most growing regions of Pakistan and northern and central India, with only isolated areas receiving more than 25mm. The dryness extended southward to Maharashtra and southern Andhra Pradesh but much needed rain (25-50mm or more) covered a large area of Karnataka and Tamil Nadu, helping immature crops and boosting moisture reserves for fall plantings. The monsoon usually withdraws from the northwest during September but more rain is needed to provide favorable growing conditions for immature summer crops and to replenish irrigation reserves for winter wheat planting. Moderate rain (25-50mm or more) maintained favorable conditions along the east coast from northern Andhra Pradesh to southern West Bengal and returned to Bangladesh and the Eastern States, increasing irrigation reserves for current and fall grain crops.



EASTERN ASIA ... Very heavy rain (50-100mm, with scattered amounts from 200 to 386mm) continued across much of Japan and sections of South Korea, causing widespread flooding and delays in early summer crop harvest and maturation of single crop rice. Heavy rain (25-75mm, with isolated amounts in excess of 100mm) also fell across much of southern China, benefiting reproductive late crop rice but delaying harvest of single season rice. Mostly dry weather covered sections of the North China Plain, favoring early corn, soybean, and rice harvests, and drydown of maturing cotton. In Manchuria, scattered rain (5-40mm, with isolated amounts greater than 50mm) caused fall harvest delays in sections of Heilongjiang and Jilin, while southern Liaoning remained mostly dry.

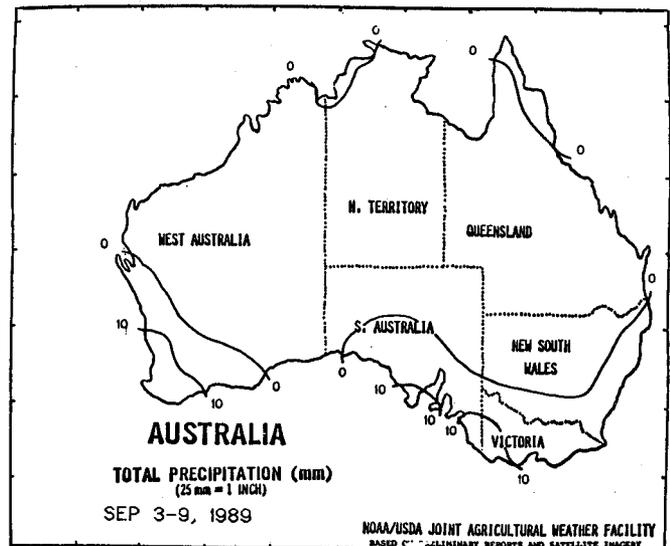


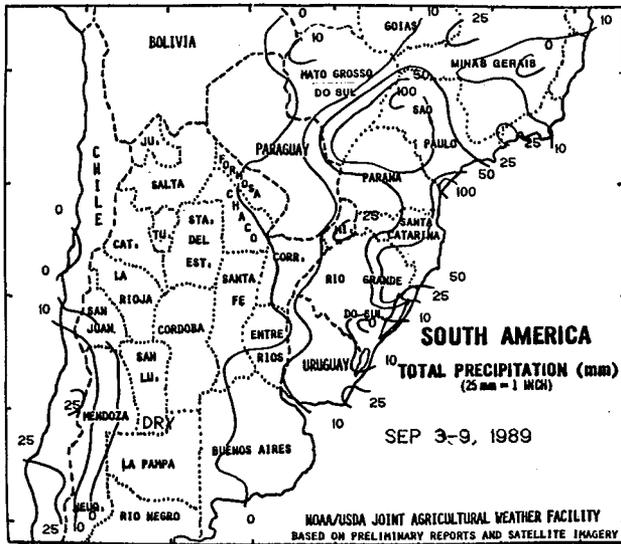
SOUTHEAST ASIA ... Moderate to heavy rain (25-50mm or more) covered most of Thailand's rainfall grain regions, improving moisture reserves for immature crops. Heavy rain (50-100mm or more) was especially welcome in northern Thailand, where a recent drying trend reduced available moisture for immature rice. Near-to-above-normal temperatures, however, maintained seasonably high evaporation rates. In the Philippines, excessive rainfall (100-300mm or more) caused by Typhoon Sarah soaked previously wet areas of western Luzon and reached into the northern grain regions. Rainfed rice and corn in northern Luzon are usually in or nearing maturity, and the combination of high winds and heavy rain as the storm passed likely caused lodging and local flooding.



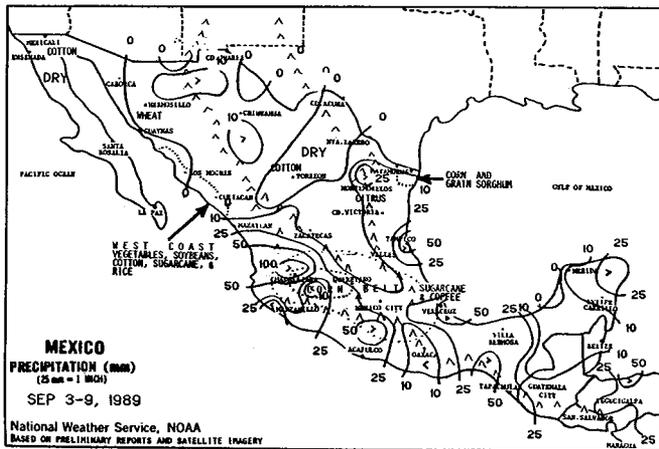
CANADA ... Widespread, locally heavy rain continued across the Prairies, continuing the recent trend of excessively wet weather that has caused spring wheat harvest delays and reduction in quality. Heaviest rain (25-55mm) occurred in central Saskatchewan, near Regina and in Saskatchewan's northernmost growing regions. Rainfall averaged less than 10mm over southernmost crop areas of the Prairies and temperatures averaged above normal in the southeast, helping to dry fields. Elsewhere, however, temperatures averaged 1-4 degrees C below normal, with local freezing temperatures reported across much of Saskatchewan and northern Alberta. Dry weather is needed everywhere to aid harvesting and avoid further reductions in quality.

AUSTRALIA ... Light to moderate rain (5-20mm) continued across crop areas of Western Australia, favoring winter grains. Mostly light rain (less than 10mm) fell over southern South Australia and Victoria, while winter grain areas of New South Wales and southern Queensland were dry, continuing a drier than normal trend since early August. Above-normal temperatures (1-3 degrees C above normal) over most crop areas accelerated vegetative growth of wheat and barley. In eastern Queensland, scattered, light rain (less than 10mm) caused only minor delays in sugarcane harvest. September is climatologically the driest month in much of the northeastern sugarcane growing areas.





SOUTH AMERICA ... In Argentina, mostly dry, cool weather prevailed for the second consecutive week over most crop areas. Light, scattered showers (1-9mm) fell over eastern Buenos Aires as a weather disturbance developed off the Atlantic coast. Weekly temperatures averaged 1-3 degrees C below normal in the wheat belt with minimum temperatures falling below freezing. Moisture remained adequate and temperatures were favorable for growth of cool-season crops. The dry weather allowed fieldwork in preparation for summer crop planting, but moisture is short in northern grain areas of Cordoba. In south-central Brazil, more widespread rain (greater than 10mm) fell throughout the corn and soybean areas. The heaviest rain (25-66mm, with isolated, scattered amounts up to 102mm) soaked northeastern Rio Grande do Sul, all but southwestern Parana, and southern portions of Mato Grosso do Sul and Sao Paulo. Ample moisture has replenished soils for wheat growth, summer crop planting, and coffee tree flowering.



MEXICO ... Rain fell in northeastern crop areas, bringing some relief from hot, dry conditions which had prevailed recently. Dry weather persisted over the north-central rangelands, while showers fell again over the northwestern mountains. Irrigation watersheds have benefited from summer rains in the northwest. Highly variable rainfall occurred in the Southern Plateau corn belt, where the harvest season is underway. The heaviest rain (50-100mm or more) fell in northwestern portions, while light rain (less than 10mm) fell in north-central and scattered southern areas of the corn belt. Widespread tropical showers covered the south, but amounts were light along the west coast of the Yucatan peninsula.

The Weekly Weather and Crop Bulletin (ISSN 0043-1974) is published weekly and jointly prepared by the U.S. Department of Commerce, National Oceanic and Atmospheric Administration (NOAA) and the U.S. Department of Agriculture (USDA). Publication began in 1872 as the Weekly Weather Chronicle. It is issued under general authority of the Act of January 12, 1895 (44-USC 213), 53d Congress, 3d Session. NOAA is responsible for managing, printing, and distributing the bulletin. The contents may be reprinted freely, with proper credit.

Annual subscriptions: domestic \$35, foreign \$50 (in U.S. funds by international money order or check drawn on U.S. bank) payable to U.S. Department of Commerce, NOAA. POSTMASTER: Send address changes to Weekly Weather and Crop Bulletin, NOAA/USDA, Joint Agricultural Weather Facility, USDA South Building, Room 5844, Washington, D.C. 20250. Order subscriptions from the office and address listed above. Second class postage paid at Washington, D.C. and additional mailing offices.

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(Continued from p, 15)

Colorado. In North Dakota, potato digging was 6% complete, 16 points behind normal.

PASTURES AND LIVESTOCK: Rain improved pasture conditions in the western Corn Belt and central Great Plains. In Nebraska, cattlemen were concerned about short hay supplies for the coming winter. Pastures were mostly good in the East but continued to deteriorate in most of the West due to lack of rain.

NOAA/USDA Joint Agricultural
Weather Facility
Room 5844 USDA South Building
Washington, D.C. 20250

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, \$300

WEEKLY NEWS BULLETIN
SECOND CLASS

SECOND CLASS MAIL
POSTAGE AND FEES PAID
NOAA PERMIT NO.

ISSN 0043 1974