

WEEKLY WEATHER AND CROP BULLETIN

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

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

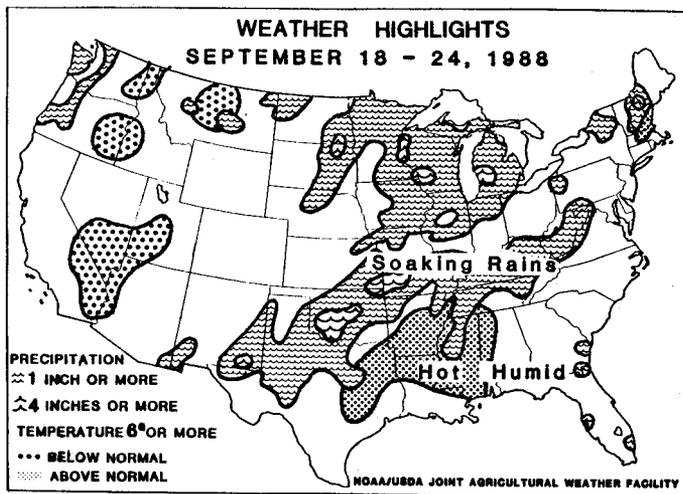
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National Weather Summary

September 18-24, 1988



HIGHLIGHTS: Moisture from the remnants of Hurricane Gilbert contributed to the substantial rain that eased long-term moisture deficits in portions of the central United States. Hot, humid conditions prevailed over the Southeast, while cool autumn weather dominated the western half of the Nation.

SUNDAY...Thunderstorms triggered by the remains of Hurricane Gilbert extended from central Texas to the upper Great Lakes. These thunderstorms produced heavy rain in the southern Plains. Severe thunderstorms developed ahead of a strong cold front which moved across the northern Plains and central Rockies. Snow fell behind the front over the northern Rockies. Rain developed along the northwest coast as a cold front approached from the Pacific Ocean. Showers were scattered along the South Atlantic coast.

MONDAY...Moist air from remnants of Gilbert enhanced the development of showers and thunderstorms ahead of a vigorous cold front crossing the central United States. Rain showers also developed ahead of the cold front crossing the Pacific Northwest.

TUESDAY...Showers were scattered over the Northeast and upper Ohio Valley. The slow moving cold front in the Western United States produced rain showers in the Great Basin and central Rockies. Thunderstorms caused heavy rain over the southern High Plains. Cooler air moved into the upper Mississippi Valley.

WEDNESDAY...Showers developed over the upper Mississippi Valley ahead of an approaching frontal system. Thunderstorms continued to produce high wind and locally heavy rain in the southern High Plains. Showers were widely scattered over the central Rockies and Great Basin. Cool weather extended across the north and far west, while hot weather covered the Gulf Coast States and southern Great Plains.

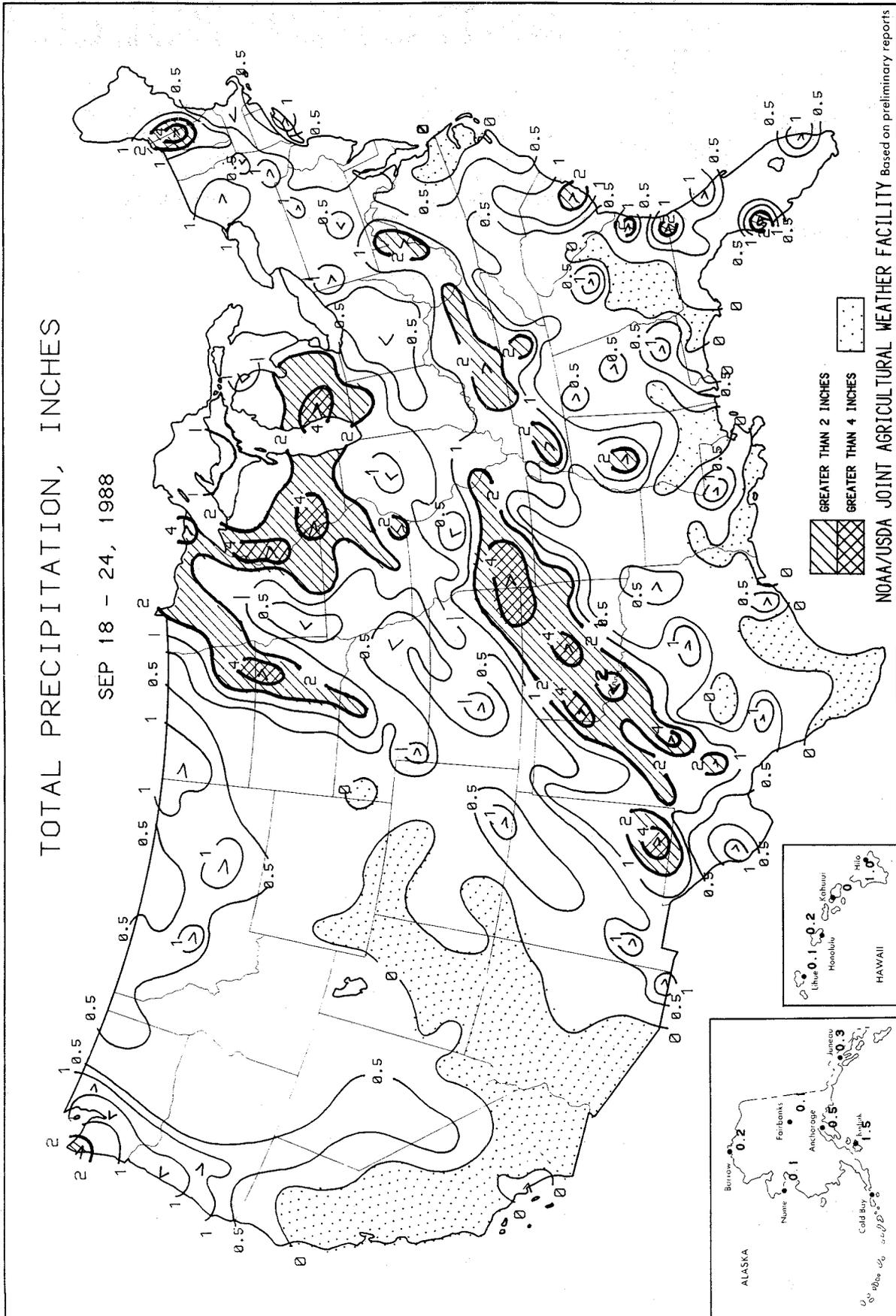
THURSDAY...Thunderstorms ahead of a northeastward moving frontal system, drenched the Great Lakes region with heavy rain. Thunderstorms with high winds crossed the southern Great Plains. Winds gusted to 65 m.p.h. at Crosby, Texas. The high temperature for the Nation was 97 degrees at Wichita, Kansas; Fort Smith, Arkansas; and Lakeland, Florida. Thus, the official start of autumn had the first day without any 100-degree readings across the Nation since May 30.

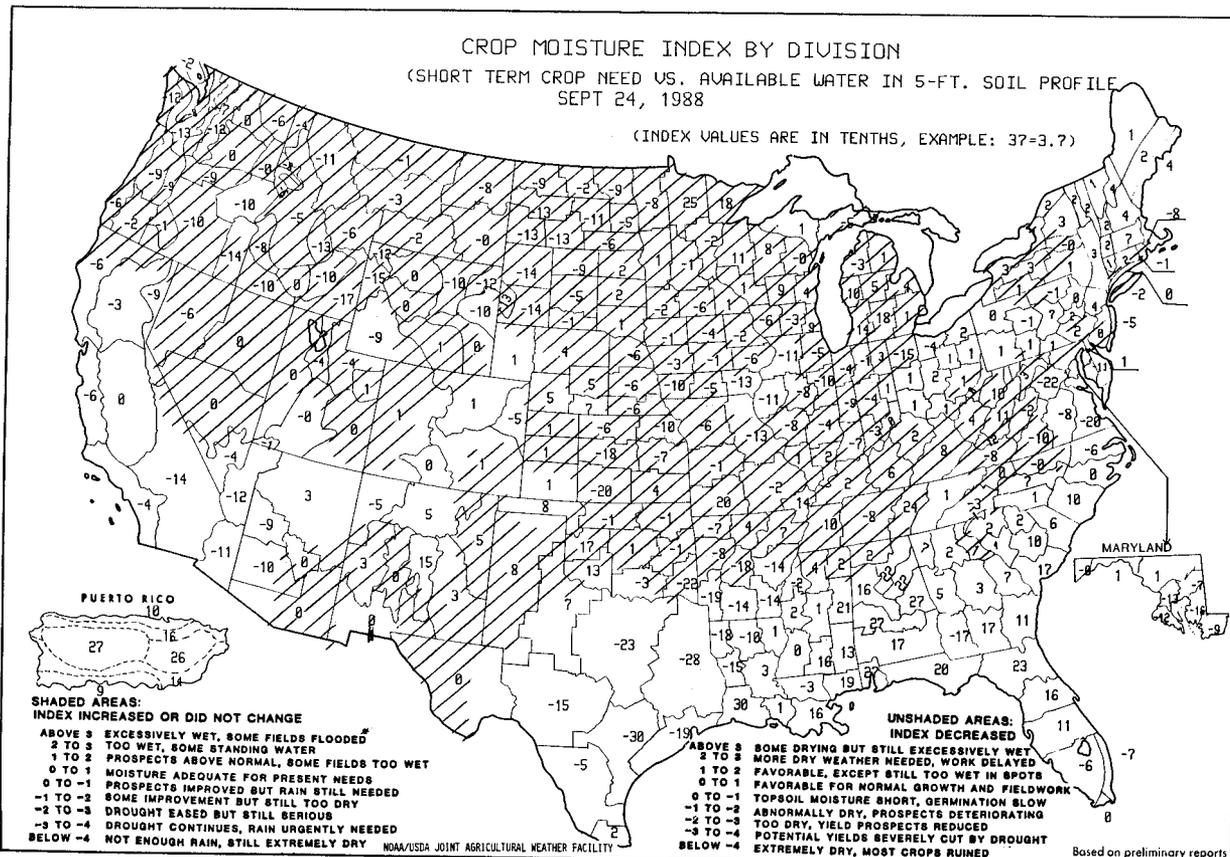
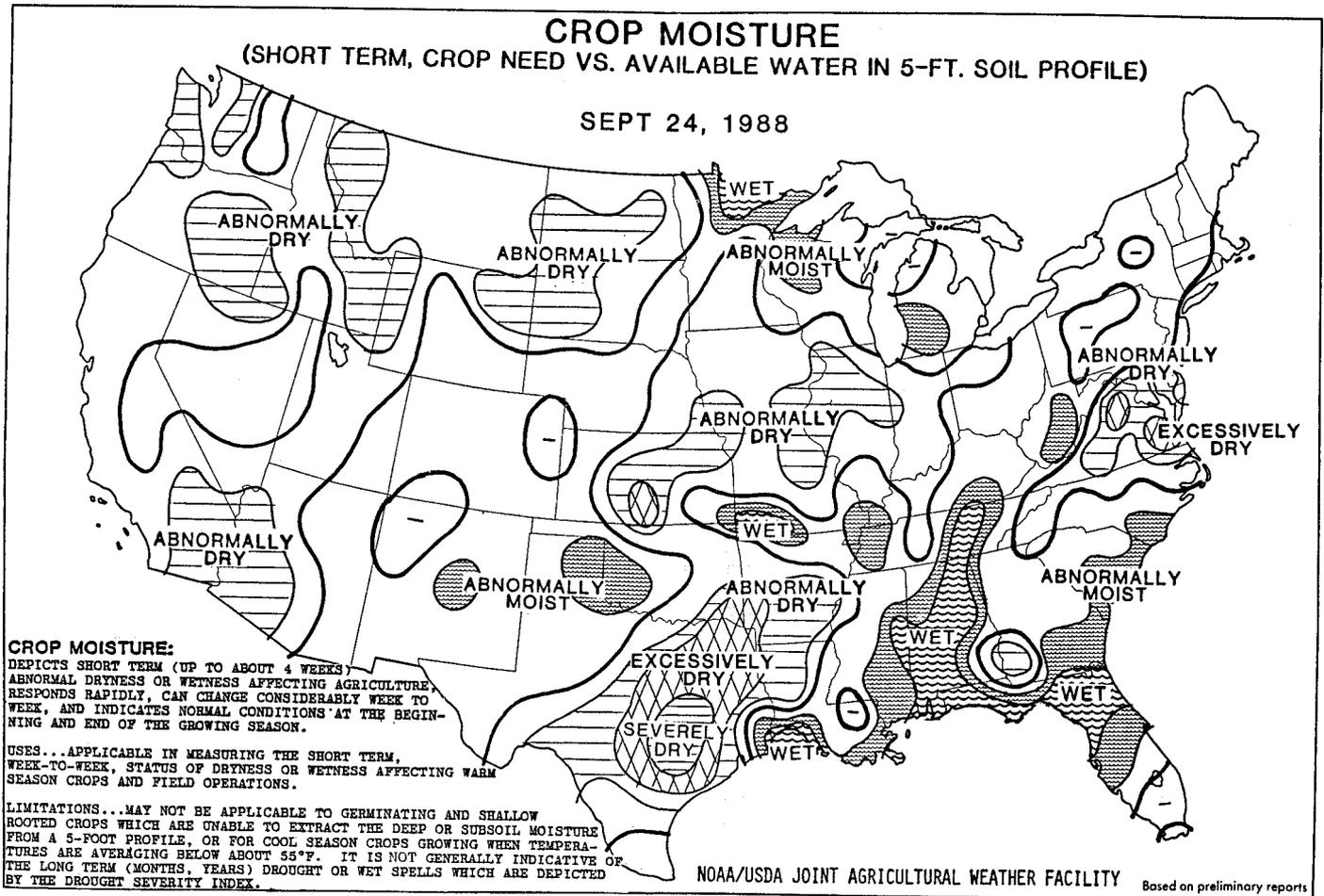
FRIDAY...Showers and thunderstorms extended from the southern Plains to the southern Appalachians. Showers were scattered over the Northeast. Cool weather prevailed over the northern portions of the Nation.

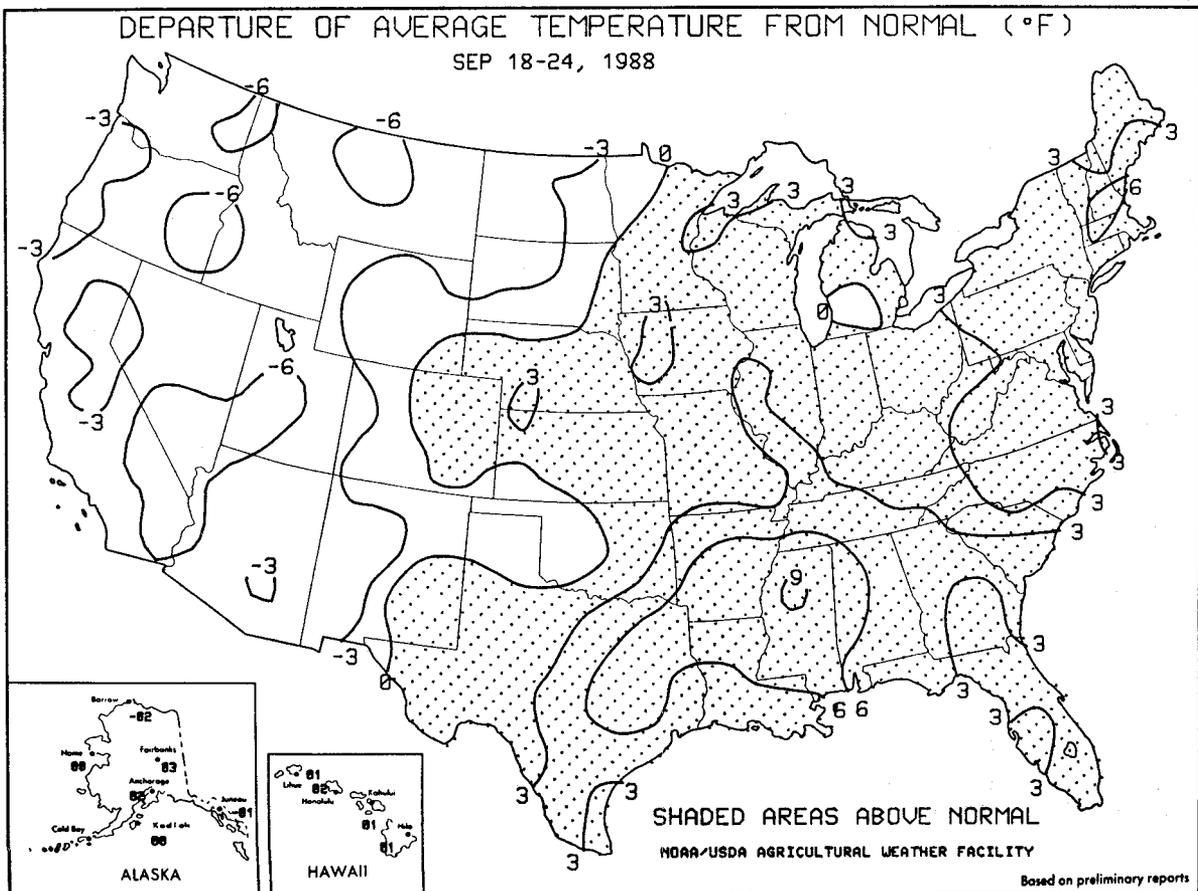
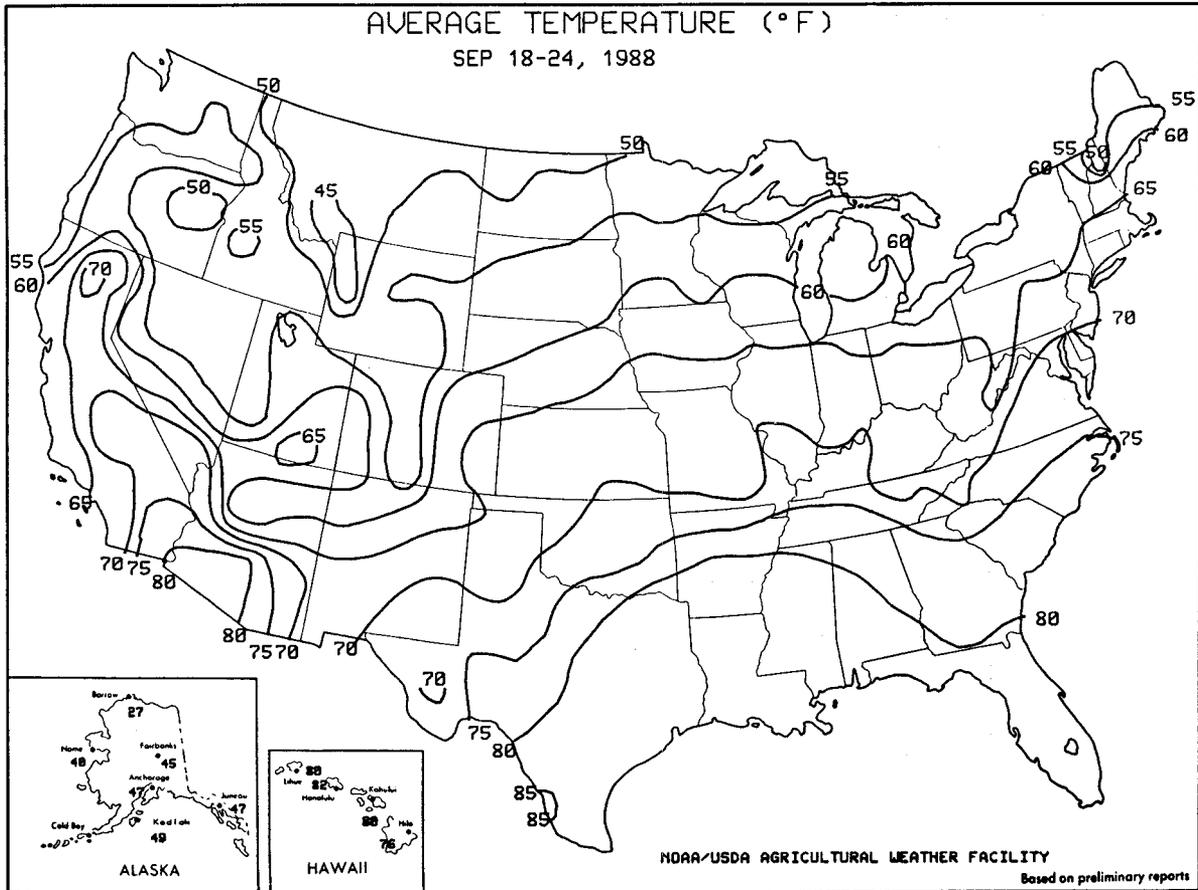
SATURDAY...Showers and thunderstorms were widespread from the middle and lower Mississippi Valley to the mid-Atlantic coast. Pleasant autumn weather dominated from the Plains west to the Pacific coast.

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National Weather Data for Selected Cities

Weather Data for the Week Ending September 24, 1988

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	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	88	68	91	62	78	6	.1	-.9	.1	7.6	216	29.3	69	98	55	1	0	1	0
MOBILE	91	74	93	73	82	5	T	-1.4	T	10.6	196	52.9	102	99	57	6	0	1	0
MONTGOMERY	91	69	93	65	80	5	.1	-1.0	.1	7.8	204	47.8	125	100	56	5	0	1	0
AK ANCHORAGE	54	41	60	29	48	2	.5	-.1	.3	1.3	66	8.8	83	90	55	0	1	4	0
BARROW	30	23	36	19	27	-2	.2	.1	.3	.3	57	3.0	85	96	83	0	7	3	0
FAIRBANKS	52	38	61	33	45	3	.1	-.2	.1	.9	93	8.4	103	91	55	0	0	1	0
JUNEAU	50	43	51	36	47	-1	.3	-1.2	.1	4.0	79	35.3	103	99	79	0	0	5	0
KODIAK	56	42	62	32	49	0	1.7	.2	1.2	4.7	95	53.5	129	89	55	0	1	4	2
NOME	46	35	54	28	40	0	.1	-.4	.1	1.2	60	10.9	95	91	61	0	4	2	0
AZ PHOENIX	94	70	100	64	82	-1	0	-.1	0	0	0	3.9	80	40	17	5	0	0	0
PRESCOTT	76	43	83	36	60	-4	0	-.3	0	.1	7	12.8	89	58	19	0	0	0	0
TUCSON	93	61	98	53	77	-2	0	-.3	0	.8	74	8.8	104	56	20	6	0	0	0
YUMA	95	69	101	64	82	-4	0	-.1	0	T	0	2.3	140	58	18	6	0	0	0
AR FORT SMITH	90	65	98	51	77	5	2.8	2.0	2.5	5.3	208	26.0	88	95	45	4	0	3	1
LITTLE ROCK	89	70	93	66	79	7	.3	-.7	.2	.5	15	27.4	74	83	53	4	0	2	0
CA BAKERSFIELD	85	56	92	54	71	-5	0	0	0	0	0	3.0	77	75	29	2	0	0	0
EUREKA	61	46	64	42	53	-3	.1	-.2	.1	.1	10	16.0	68	97	74	0	0	1	0
FRESNO	85	56	91	55	71	-2	0	-.1	0	0	0	5.5	78	73	25	2	0	0	0
LOS ANGELES	70	60	75	58	65	-4	.1	0	.1	.1	78	4.7	55	87	60	0	0	1	0
REDDING	86	57	88	50	71	-4	0	-.3	0	0	0	16.9	65	53	18	0	0	0	0
SACRAMENTO	84	54	88	52	69	-2	0	-.1	0	0	0	6.9	63	68	24	0	0	0	0
SAN DIEGO	74	62	81	57	68	-1	0	T	T	0	0	6.7	102	82	55	0	0	0	0
SAN FRANCISCO	73	51	82	49	62	-2	0	-.1	0	0	0	7.3	58	91	45	0	0	0	0
CO DENVER	79	44	87	37	62	1	T	-.3	T	.9	91	13.4	106	76	20	0	0	0	0
GRAND JUNCTION	75	46	83	37	61	-4	.1	-.1	.1	.7	130	6.6	116	67	20	0	0	1	0
PUEBLO	83	46	91	35	64	1	.1	-.1	.1	1.8	269	10.7	116	78	19	2	0	1	0
CT BRIDGEPORT	76	62	80	55	69	5	.3	-.5	.3	2.2	82	26.3	88	87	57	0	0	1	0
HARTFORD	78	58	83	51	68	7	.1	-.8	.1	1.9	59	28.3	89	92	46	0	0	2	0
DC WASHINGTON	81	63	91	53	72	3	.4	-.3	.3	1.5	57	23.0	78	97	55	1	0	2	0
FL APALACHICOLA	91	74	93	71	82	5	T	-1.9	T	10.2	143	56.2	127	96	57	7	0	1	0
DAYTONA BEACH	89	72	92	71	81	2	1.4	-.2	1.2	5.5	102	30.7	81	98	59	5	0	2	1
JACKSONVILLE	92	71	94	66	81	4	2.6	1.2	2.6	15.5	293	52.0	122	98	50	5	0	2	1
KEY WEST	89	77	90	74	83	0	1.7	.2	1.4	3.1	62	34.5	122	91	61	1	0	3	1
MIAMI	90	75	92	74	83	1	2.0	.1	1.6	3.1	48	42.2	95	91	56	5	0	4	1
ORLANDO	93	74	96	73	84	3	T	-1.4	T	4.6	87	41.5	100	94	47	6	0	1	0
TALLAHASSEE	93	67	95	61	80	3	T	-1.4	T	3.5	65	40.3	77	98	48	6	0	1	0
TAMPA	91	74	94	71	82	2	2.1	.8	2.0	13.2	256	44.3	112	96	51	6	0	2	1
WEST PALM BEACH	89	74	90	72	82	1	.4	-1.9	.3	1.8	24	55.6	125	93	55	1	0	2	0
GA ATLANTA	85	66	90	60	76	5	.3	-.4	.3	6.3	248	34.8	92	93	49	1	0	1	0
AUGUSTA	89	65	93	60	77	4	T	-.8	T	5.5	190	33.0	94	98	50	4	0	0	0
MACON	89	65	93	55	77	3	T	-.7	T	5.6	207	35.4	99	97	49	5	0	0	0
SAVANNAH	89	69	94	65	79	4	.1	-1.0	.1	8.5	198	41.8	99	97	53	5	0	2	0
HI HILO	84	68	85	66	76	1	1.1	-.3	.4	2.7	52	83.9	94	91	58	0	0	6	0
HONOLULU	90	75	91	73	82	2	.2	.1	.2	.9	198	8.1	56	82	45	6	0	2	0
KAHULUI	87	72	88	71	80	1	T	-.1	T	0	0	12.9	104	82	49	0	0	0	0
LIHUE	85	76	85	73	80	1	.1	-.5	.1	.2	12	25.4	91	82	62	0	0	2	0
ID BOISE	70	41	80	28	55	-6	.1	0	.1	.1	31	7.0	87	73	21	0	1	1	0
LEWISTON	69	45	76	42	57	-5	.2	0	.2	.4	59	7.2	78	86	35	0	0	2	0
POCATELLO	67	38	78	32	52	-5	T	-.1	T	8	4.6	60	78	26	0	1	1	0	0
IL CHICAGO	74	55	86	45	64	2	1.7	.8	.7	3.8	113	19.5	72	82	50	0	0	4	2
MOLINE	78	53	92	42	66	3	1.4	.5	1.2	1.6	51	18.3	61	96	47	1	0	2	1
PBORIA	78	55	92	47	67	3	.9	0	.5	1.3	45	13.2	47	91	45	1	0	3	1
QUINCY	79	57	94	49	68	3	.7	-.2	.4	1.2	36	13.3	44	87	40	1	0	2	0
ROCKFORD	75	53	87	41	64	2	1.3	.4	.6	2.1	71	16.5	57	94	54	0	0	4	1
SPRINGFIELD	79	56	91	46	67	1	1.6	.9	1.3	2.8	111	16.0	60	89	44	1	0	2	1
IN EVANSVILLE	82	57	91	48	70	2	.6	0	.2	1.2	55	24.9	78	96	55	1	0	4	0
FORT WAYNE	75	54	87	44	64	2	1.2	.6	1.2	1.7	82	24.6	93	94	56	0	0	1	0
INDIANAPOLIS	78	56	87	48	67	2	.5	-.2	.4	1.1	52	21.4	71	97	51	0	0	3	0
SOUTH BEND	71	55	81	44	63	1	2.4	1.7	1.9	4.4	172	23.3	82	92	62	0	0	3	1
IA DES MOINES	77	53	87	44	65	2	.8	.2	.7	1.6	64	16.0	63	90	46	0	0	3	1
SIOUX CITY	74	49	84	42	62	0	1.7	.2	.4	3.8	184	19.1	89	91	47	0	0	3	0
WATERLOO	75	48	88	37	61	2	1.4	.7	1.2	1.6	58	15.2	56	97	49	0	0	3	1
KS CONCORDIA	80	55	93	45	68	2	.2	-.5	.2	1.1	43	13.3	58	82	36	1	0	1	0
DODGE CITY	81	54	92	42	68	1	1.0	.6	1.0	2.0	133	13.4	76	89	38	2	0	2	1
GOODLAND	80	49	90	42	65	3	.4	.1	.4	1.9	165	19.7	141	88	28	1	0	1	0
TOPEKA	81	56	95	45	69	2	.7	-.1	.6	1.8	66	17.3	64	91	41	2	0	3	1
WICHITA	82	59	97	48	70	2	.4	-.4	.1	.5	18	14.8	64	88	42	2	0	3	0
KY BOWLING GREEN	81	59	89	49	70	2	3.8	3.0	2.7	8.0	310	31.1	83	100	57	0	0	3	2
LEXINGTON	77	58	84	52	68	1	1.5	.8	.9	6.0	222	28.5	80	97	60	0	0	3	1
LOUISVILLE	80	60	85	51	70	2	.6	-.2	.3	1.5	55	26.8	80	93	56	0	0	4	0
LA ALEXANDRIA	91	74	93	70	83	7	0	-.7	0	2.7	111	32.2	81	89	51	7	0	0	0
BATON ROUGE	91	74	92	71	83	6	.8	-.2	.8	9.3	254	61.9	142	95	55	6	0	1	1
LAKE CHARLES	90	73	93	70	82	5	0	-.3	0	7.3	156	47.4	118	99	56	4	0	0	0
NEW ORLEANS	90	74	93	72	82	5	.1	-1.2	.1	5.7	118	65.6	140	99	61	4	0	1	0

Based on 1951-80 normals

Weather Data for the Week Ending September 24, 1988

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 °F		PRECIPITATION		
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE	
SHREVEPORT	93	72	95	68	83	7	.1	-.6	.1	1.6	60	21.8	66	95	48	6	0	1	0	
ME CARIBOU	61	47	70	32	54	2	.8	-.0	.6	2.4	85	22.2	88	99	71	0	1	4	1	
PORTLAND	72	53	78	46	62	6	.3	-.4	.2	1.5	58	30.1	101	95	60	0	0	4	0	
MD BALTIMORE	80	61	90	53	71	4	.4	-.2	.5	1.6	56	24.5	78	96	56	1	0	2	0	
SALISBURY	80	60	85	55	70	3	.3	-.6	.2	2.6	81	35.1	102	96	54	0	0	2	0	
MA BOSTON	76	60	79	57	68	5	.3	-.5	.2	1.3	48	25.6	82	87	51	0	0	2	0	
CHATHAM	70	57	75	54	63	3	.4	-.5	.3	1.3	43	24.5	74	93	66	0	0	3	0	
MI ALPENA	66	50	74	39	58	3	.9	-.2	.4	1.4	57	18.9	85	97	65	0	0	4	0	
DETROIT	70	55	87	46	63	1	2.5	2.0	1.3	3.6	201	17.0	73	94	61	0	0	4	2	
FLINT	69	51	86	40	60	1	2.5	2.0	1.6	2.9	155	18.5	83	97	62	0	0	4	2	
GRAND RAPIDS	87	51	78	41	59	-1	5.2	4.4	3.2	7.5	288	24.3	97	97	68	0	0	4	2	
HOUGHTON LAKE	64	50	76	34	57	2	1.5	.9	1.0	4.0	177	19.8	94	97	68	0	0	4	1	
LANSING	68	51	83	40	60	0	3.4	2.7	1.9	5.9	246	22.5	99	98	68	0	0	5	2	
MARQUETTE	63	44	74	33	53	1	.7	-.3	.6	3.1	99	25.4	91	95	67	0	0	5	1	
MUSKEGON	67	52	76	39	60	0	4.3	3.7	2.6	5.9	253	21.9	97	97	66	0	0	4	2	
SAULT ST. MARIE	62	49	68	37	55	3	1.4	.5	1.0	2.4	75	20.4	85	98	70	0	0	3	1	
MN ALEXANDRIA	66	47	82	40	56	1	.6	.1	.5	3.0	160	19.1	93	89	60	0	0	2	0	
DULUTH	63	47	70	41	55	3	3.1	2.4	2.6	5.7	217	26.2	110	96	67	0	0	5	1	
INT'L FALLS	60	42	72	37	51	1	2.8	2.1	1.5	3.6	140	21.4	108	98	65	0	0	4	2	
MINNEAPOLIS	70	51	86	44	60	2	1.6	1.1	1.5	2.4	117	14.3	66	90	56	0	0	2	1	
ROCHESTER	69	46	83	36	57	0	2.9	2.1	2.0	3.5	128	16.7	72	96	61	0	0	5	2	
MS GREENWOOD	91	74	92	72	82	9	3.1	2.3	3.0	6.3	234	23.5	59	95	56	5	0	0	2	1
JACKSON	92	72	94	70	82	8	T	-.8	T	1.9	67	27.1	68	99	50	7	0	1	0	
MERIDIAN	90	71	92	69	81	7	.8	0	.8	8.1	280	36.4	89	99	57	5	0	2	1	
MO CAPE GIRARDEAU	82	61	90	51	72	-	1.2	.4	.9	7.4	240	26.4	77	96	63	1	0	4	1	
COLUMBIA	81	57	93	49	69	2	.4	-.5	.3	.6	19	19.8	69	92	46	1	0	4	0	
KANSAS CITY	79	57	92	48	68	0	.5	-.5	.3	6.2	179	18.9	65	92	46	1	0	3	0	
SAINT LOUIS	83	62	93	54	72	5	1.0	.3	.8	1.0	45	21.2	81	86	47	1	0	4	1	
SPRINGFIELD	79	58	89	47	68	1	4.3	3.3	1.7	4.7	139	37.6	125	97	59	0	0	4	3	
MT BILLINGS	63	41	74	33	52	-5	1.1	.8	1.1	2.1	212	8.2	69	81	43	0	0	1	1	
GLASGOW	62	39	71	31	50	-5	.9	.7	.9	1.0	142	6.9	72	91	42	0	1	1	1	
GREAT FALLS	57	37	70	32	47	-9	.4	.1	.3	2.3	279	9.8	78	86	46	0	1	2	0	
HAVRE	58	38	65	33	48	-7	.1	-.1	.1	1.1	135	4.9	49	92	46	0	0	1	0	
HELENA	62	37	73	30	49	-4	1.0	.8	1.0	2.7	401	8.9	94	89	37	0	2	1	1	
KALISPELL	59	35	65	30	47	-4	.8	.6	.4	1.7	188	10.7	91	98	45	0	2	2	0	
MILES CITY	64	41	71	36	53	-5	.9	.6	.8	1.0	114	3.4	28	77	37	0	0	2	1	
MISSOULA	63	37	72	30	50	-3	T	-.2	T	.3	35	8.9	89	89	36	0	3	1	0	
NE GRAND ISLAND	78	49	90	41	63	1	.4	-.2	.4	2.0	95	18.8	93	90	37	1	0	1	0	
LINCOLN	79	52	92	42	66	2	.4	-.2	.4	2.6	108	13.1	56	89	46	1	0	1	0	
NORFOLK	76	47	90	39	62	1	.3	-.1	.2	3.4	198	20.7	100	94	40	1	0	2	0	
NORTH PLATTE	79	45	90	38	62	3	.4	0	.4	1.2	85	18.0	105	95	35	1	0	1	0	
OMAHA	78	54	89	44	66	3	.2	-.6	.2	1.2	43	16.2	63	79	52	0	0	1	0	
SCOTTSBLUFF	79	42	84	36	60	1	T	-.3	T	.4	51	13.9	110	86	20	0	0	0	0	
VALENTINE	74	41	87	33	58	-1	.8	.5	.6	.9	77	18.3	120	83	33	0	0	2	1	
NV ELY	67	33	76	23	50	-4	.2	0	.1	.2	26	6.1	89	77	24	0	4	2	0	
LAS VEGAS	85	58	92	52	72	-6	T	-.1	T	T	0	2.2	74	39	15	2	0	0	0	
RENO	74	39	82	34	56	-2	T	0	T	T	21	2.5	49	65	19	0	0	1	0	
WINNEMUCCA	71	33	81	19	52	-5	.3	.2	.3	.3	100	4.5	83	70	22	0	4	1	0	
NH CONCORD	74	52	79	44	63	6	.5	-.2	.2	1.8	71	26.2	101	98	55	0	0	4	0	
NJ ATLANTIC CITY	79	60	87	55	70	5	.2	-.4	.2	2.5	105	24.8	80	96	55	0	0	1	0	
NM ALBUQUERQUE	76	51	85	45	63	-4	.8	.7	.6	2.6	393	12.6	207	79	32	0	0	3	1	
CLOVIS	82	56	88	50	69	2	1.7	1.2	.7	2.7	179	19.4	140	88	36	0	0	3	2	
ROSWELL	85	59	95	51	72	3	1.5	1.1	.7	1.6	108	13.2	154	89	32	1	0	3	2	
NY ALBANY	74	55	81	49	65	6	.4	-.3	.2	1.5	58	22.6	87	97	59	0	0	3	0	
BINGHAMTON	69	53	77	46	61	3	.8	0	.4	2.1	77	26.9	99	96	66	0	0	2	0	
BUFFALO	71	57	81	45	64	4	.5	-.2	.4	2.1	76	27.0	100	93	57	0	0	3	0	
NEW YORK	77	64	85	60	71	4	T	-.8	T	2.6	93	28.5	91	83	54	0	0	1	0	
ROCHESTER	73	54	81	43	64	3	.5	-.1	.5	1.7	79	19.6	85	95	58	0	0	2	1	
SYRACUSE	73	57	84	48	65	5	1.0	.2	.5	1.9	71	25.0	88	96	56	0	0	5	0	
NC ASHEVILLE	80	56	85	44	68	3	.1	-.8	0	2.8	91	18.6	55	100	58	0	0	2	0	
CHARLOTTE	83	65	89	57	74	4	.1	-.7	.1	4.6	159	26.6	80	95	55	0	0	2	0	
GREENSBORO	81	62	86	54	72	4	.1	-.8	0	3.2	111	26.4	81	97	61	0	0	2	0	
HATTERAS	83	67	86	60	75	2	T	-.1	T	2.1	44	33.9	83	96	61	0	0	0	0	
NEW BERN	87	66	91	61	77	5	.3	-.1	.2	2.2	48	42.2	100	96	50	1	0	2	0	
RALEIGH	83	63	88	57	73	4	.6	-.1	.5	4.8	179	27.4	85	97	56	0	0	2	1	
WILMINGTON	86	66	91	60	76	3	.1	-.1	.1	2.7	58	52.3	122	100	58	1	0	2	0	
ND BISMARCK	65	37	79	29	51	-4	T	-.3	T	.2	21	8.4	64	94	41	0	3	1	0	
FARGO	64	45	80	40	55	-1	2.2	1.8	1.6	2.9	192	11.5	70	93	56	0	0	2	2	
GRAND FORKS	61	44	81	39	53	-1	.8	.3	.7	1.9	113	10.9	70	93	56	0	0	2	1	
WILLISTON	61	38	71	34	49	-5	1.3	1.0	1.3	1.4	126	8.9	77	91	48	0	0	1	1	
OH AKRON-CANTON	71	58	76	50	64	3	.1	-.5	.1	4.9	205	24.9	89	95	68	0	0	2	0	
CINCINNATI	76	58	82	49	67	1	.8	.1	.5	3.1	131	30.5	99	96	57	0	0	2	1	
CLEVELAND	73	58	84	48	66	3	T	-.6	T	1.8	75	20.1	75	94	61	0	0	2	0	
COLUMBUS	74	59	80	53	67	3	T	-.5	T	3.5	156	28.8	98	96	63	0	0	2	0	

Weather Data for the Week Ending September 24, 1988

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	52 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
DAYTON	74	57	81	52	65	1	.2	-.4	.1	4.7	243	24.7	91	94	59	0	0	4	0
TOLEDO	71	56	86	41	63	2	.7	-.1	.4	1.8	88	18.0	74	89	62	0	0	4	0
YOUNGSTOWN	70	56	76	46	63	3	1.0	.3	.6	3.5	141	24.1	85	99	67	0	0	2	1
OK OKLAHOMA CITY	80	62	90	51	71	0	2.4	1.6	1.5	4.1	150	25.0	101	92	52	2	0	2	2
TULSA	81	63	92	54	72	1	3.0	2.0	1.4	4.8	137	25.0	83	91	50	2	0	3	2
OR ASTORIA	63	44	66	38	54	-1	.7	-.1	.4	.8	32	32.2	78	97	65	0	0	3	0
BURNS	67	29	76	21	48	-9	T	-.1	T	T	8	4.9	75	81	23	0	6	1	0
MEDFORD	78	42	84	35	60	-3	.2	0	.2	.2	38	7.0	61	93	22	0	0	1	0
PENDLETON	68	45	75	40	57	-5	.2	-.1	.2	.2	56	7.6	96	79	36	0	0	2	0
PORTLAND	69	49	74	44	59	-3	1.6	1.2	1.4	1.6	130	21.0	95	94	51	0	0	4	1
SALEM	72	43	77	34	58	-3	.8	.3	.7	.8	64	19.6	83	98	43	0	0	2	1
PA ALLENTOWN	75	60	81	55	68	5	.2	-.7	.1	3.2	97	31.2	95	96	62	0	0	3	0
ERIE	71	58	82	47	65	4	.8	-.3	.3	3.2	101	25.0	87	90	60	0	0	3	0
HARRISBURG	76	60	86	53	68	3	.8	0	.6	3.1	108	28.2	96	94	65	0	0	4	1
PHILADELPHIA	78	62	85	57	70	4	.1	-.6	.1	2.6	93	30.0	97	93	58	0	0	3	0
PITTSBURGH	72	58	78	52	65	3	.6	0	.5	2.3	106	20.7	73	97	68	0	0	3	0
SCRANTON	72	58	79	52	65	5	.2	-.5	.2	1.9	73	25.1	97	91	63	0	0	2	0
RI PROVIDENCE	75	58	80	54	66	5	.5	-.3	.3	2.4	84	28.0	87	92	54	0	0	2	0
SC CHARLESTON	88	70	92	65	79	5	2.3	1.2	1.2	9.3	231	39.7	93	98	57	2	0	2	2
COLUMBIA	87	66	93	58	77	3	.2	-.7	.2	6.0	174	35.9	90	96	51	2	0	1	0
FLORENCE	86	67	93	61	76	3	1.6	-.7	1.1	4.8	144	32.1	90	96	58	1	0	3	1
GREENVILLE	83	61	89	52	72	2	.1	-.9	.1	4.6	121	28.7	72	98	60	0	0	3	0
SD ABERDEEN	67	45	76	35	56	-1	4.6	4.3	2.3	5.3	439	16.8	109	94	54	0	0	2	2
HURON	71	46	87	36	58	0	2.5	2.2	1.9	3.3	298	17.1	109	93	48	0	0	2	2
RAPID CITY	70	40	84	32	55	-3	.2	-.1	.2	.2	22	8.5	60	89	31	0	1	1	0
SIOUX FALLS	72	48	83	39	60	2	.5	-.1	.3	2.3	103	14.7	72	91	48	0	0	2	0
TN CHATTANOOGA	86	63	91	53	75	4	.5	-.5	.3	6.8	193	33.6	85	98	50	1	0	2	0
KNOXVILLE	85	60	89	50	72	3	.1	-.6	.1	2.7	112	24.4	69	98	53	0	0	1	0
MEMPHIS	88	71	94	66	80	7	.4	-.4	.3	3.7	125	29.2	74	90	54	3	0	2	0
NASHVILLE	85	63	92	53	74	4	.8	0	.8	2.5	81	20.4	55	96	53	1	0	2	1
TX ABILENE	85	65	90	56	75	1	.4	-.3	.3	1.7	71	14.4	79	90	48	2	0	2	0
AMARILLO	79	55	85	45	67	-1	.2	-.2	.2	3.1	224	23.5	145	94	47	0	0	1	0
AUSTIN	93	75	96	72	84	7	T	-.9	T	.3	10	15.9	69	96	44	6	0	1	0
BEAUMONT	90	74	91	71	82	4	.7	-.5	.7	6.7	153	37.8	91	97	57	5	0	1	1
BROWNSVILLE	89	75	91	71	82	1	T	-1.3	T	6.7	159	20.3	111	96	62	1	0	0	0
CORPUS CHRISTI	90	73	92	70	82	2	T	-1.6	T	3.5	64	12.8	52	98	60	6	0	0	0
DEL RIO	87	73	90	69	80	1	.7	0	.6	2.9	132	13.2	101	89	56	1	0	2	1
EL PASO	87	58	92	50	72	-1	.7	-.4	.6	1.5	136	9.8	163	89	29	2	0	3	1
FORT WORTH	92	71	96	62	82	6	.3	-.5	.2	2.7	98	17.3	73	86	41	6	0	2	0
GALVESTON	87	79	87	78	83	4	T	-1.4	T	6.3	126	32.1	106	85	65	0	0	0	0
HOUSTON	94	74	96	70	84	7	.1	-1.1	.1	.9	20	19.6	57	94	47	7	0	1	0
LUBBOCK	82	58	87	50	70	1	.8	.3	.3	2.2	133	12.2	84	94	44	0	0	3	0
MIDLAND	84	62	87	53	73	0	1.6	1.1	1.5	5.9	350	18.5	173	98	47	0	0	2	1
SAN ANGELO	86	65	91	58	76	1	1.1	.3	1.1	2.5	103	12.6	91	94	49	1	0	1	1
SAN ANTONIO	90	75	92	71	83	5	T	-.9	T	.8	28	17.7	82	95	58	5	0	1	0
VICTORIA	92	75	93	73	83	5	T	-1.5	T	1.5	29	11.4	41	94	51	6	0	0	0
WACO	95	73	98	64	84	6	1.6	.8	1.6	1.7	66	16.1	70	90	39	6	0	1	1
WICHITA FALLS	85	66	93	58	76	1	1.8	-.9	1.8	6.7	246	20.8	100	92	49	2	0	2	1
UT BLANDING	72	43	77	33	58	-4	.1	-.1	.1	1.0	151	9.3	117	66	29	0	0	2	0
CEDAR CITY	72	37	78	28	55	-7	.1	-.1	.1	.1	14	10.3	133	69	20	0	2	2	0
SALT LAKE CITY	70	46	83	38	58	-5	T	-.2	T	.1	9	6.5	57	66	27	0	0	1	0
VT BURLINGTON	71	52	80	43	61	5	.7	0	.5	1.5	59	19.3	77	94	56	0	0	4	1
VA NORFOLK	82	66	88	62	74	3	.2	-.8	.2	1.7	49	31.2	89	95	54	0	0	3	0
RICHMOND	84	61	91	53	72	4	T	-.8	T	1.7	60	29.4	89	96	54	1	0	1	0
ROANOKE	80	59	87	53	70	4	1.0	.3	.6	3.0	118	25.0	85	99	59	0	0	3	1
WA QUILLYUTE	59	43	66	37	51	-5	2.9	1.3	1.0	3.4	72	60.8	95	100	71	0	0	5	3
SEATTLE-TACOMA	62	46	68	43	54	-4	.9	-.4	.6	1.0	66	18.1	80	98	57	0	0	4	1
SPOKANE	60	40	66	35	50	-7	.8	.6	.8	1.4	240	10.0	93	92	48	0	0	2	1
YAKIMA	69	37	73	30	53	-6	.1	.1	.1	.1	46	3.6	72	90	37	0	1	2	0
WV BECKLEY	74	57	80	49	66	5	1.7	-.9	1.3	4.8	163	25.6	78	95	63	0	0	3	1
CHARLESTON	79	59	83	52	69	3	.8	-.1	.5	2.4	98	20.8	63	97	58	0	0	3	0
HUNTINGTON	79	59	85	51	69	3	.6	-.1	.4	2.7	108	25.5	80	99	58	0	0	3	0
PARKERSBURG	76	60	82	54	68	2	.8	-.2	.6	3.9	170	24.1	81	96	60	0	0	3	1
WI GREEN BAY	67	51	82	41	59	2	1.6	-.9	1.2	4.1	161	16.8	76	97	66	0	0	4	1
LACROSSE	71	52	88	45	62	2	4.5	3.7	2.1	4.9	171	21.2	86	94	52	0	0	5	3
MADISON	71	51	84	39	61	3	2.2	1.6	1.4	3.2	130	17.7	72	93	61	0	0	5	2
MILWAUKEE	68	54	75	47	61	1	3.0	2.4	2.3	4.9	213	20.9	87	92	64	0	0	4	2
WAUSAU	67	49	84	37	58	2	1.7	-.9	1.5	2.7	84	16.3	63	98	59	0	0	4	1
WY CASPER	71	38	79	33	55	-1	T	-.2	T	.6	102	5.3	58	78	20	0	0	1	0
CHEYENNE	71	41	78	36	56	0	T	-.2	T	1.6	185	14.7	127	78	24	0	0	2	0
LANDER	69	41	77	30	55	-1	T	-.2	T	.9	138	6.8	66	68	24	0	1	1	0
SHERIDAN	68	38	76	31	53	-3	.2	-.1	.2	.8	86	8.3	69	87	35	0	1	1	0
PR SAN JUAN	89	76	89	75	82	0	.9	-.5	.4	5.3	110	46.3	124	90	69	0	0	4	0

National Agricultural Summary

September 19-25, 1988

HIGHLIGHTS: Rain in the central Plains and the Corn Belt improved soil moisture conditions. Soil moisture was short to adequate in the central Plains and the West and was mostly adequate in the South and East. The Corn Belt had 3 to 5 days suitable for fieldwork and other areas had 5 to 6 days suitable.

Winter wheat seeding was 34 percent (%) finished, 13 percentage points behind 1987 and 2 points behind the 5-year average. Fourteen percent of the crop was emerged, 8 points behind 1987 and 3 points behind the average. Corn, sorghum, and soybean harvests were generally behind 1987 but ahead of normal. Corn was 85% mature, 5 points behind last year but 6 points ahead of normal. Harvest was 20% complete, 6 points behind 1987 but 5 points ahead of the average. Sixty-seven percent of the soybean acreage was dropping leaves, 5 points behind 1987 but 5 points ahead of normal. Harvest was 14% complete, 4 points behind last year but 5 points ahead of the average. Harvest was ahead of normal in the Plains States and near normal in most other areas. Sixty-four percent of the sorghum acreage was mature, the same as 1987 and 9 points ahead of normal. Harvest was 32% finished, 2 points behind 1987 but 2 points ahead of the average. Harvest was behind normal in the lower Mississippi Valley. Sixty-five percent of the cotton acreage was opening bolls, equal to 1987 but 2 points ahead of normal. Harvest was 14% finished, 7 points behind 1987 but equal to the average. Rice harvest was 50% finished, 11 points behind normal. Tobacco harvest continued slightly behind normal. Florida's citrus groves were in good condition.

SMALL GRAINS: Winter wheat seeding was 34% complete, 13 points behind 1987 and 2 points behind the average. Fourteen percent of the crop was emerged, 8 points and 3 points behind 1987 and normal, respectively. Seeding was behind normal in the central and northern Plains States. Seeding was 25% finished in Kansas, 10 points behind normal. Inadequate soil moisture has delayed seeding in western South Dakota. Seeding was 61% complete, 22 points behind normal. In Colorado and Nebraska, seeding rapidly progressed. In Texas and Oklahoma, seeding was ahead of normal. In Montana, seeding was 15% finished, 20 points behind the average.

CORN: Corn was 85% mature, 5 points behind 1987 but 6 points ahead of normal. Crop maturity continued to lag behind normal in the eastern Corn Belt. Corn harvest was 20% finished, 5 points ahead of the average. Harvest continued far ahead of normal in Iowa, Kansas, and Minnesota. Harvest was behind normal in the East and Southeast. Wind caused lodging in portions of the Texas High Plains. Illinois' harvest was 21% complete, 24 points behind 1987 but 3 points ahead of normal. In Nebraska, harvest was 15% finished, 9 points ahead of normal.

SOYBEANS: Sixty-seven percent of the acreage was dropping leaves, 5 points behind 1987 but 5 points ahead of normal. Harvest was 14% finished, 4 points behind last year but 5 points ahead of normal. Harvest was ahead of normal in the central and northern Plains States, behind normal in Ohio and near normal elsewhere. Weeds have hampered harvest in Ohio. Insect problems continued in Georgia, Louisiana, and Mississippi. Illinois' harvest was 19% finished, 25 points behind 1987 and 2 points behind average. Iowa's harvest was 30% finished, 23 points ahead of

normal. Minnesota's harvest was 42% complete, 36 points ahead of normal.

SORGHUM: Sorghum was 64% mature, 9 points ahead of normal. Harvest was 32% finished, 2 points ahead of normal. Harvest was ahead of normal in the Plains States and behind normal in other areas. Harvest was 66% complete, 5 points ahead of normal in Texas. High winds and hail damaged some fields. Harvest was virtually complete in the Hill Country and Cross-Timbers. Harvest was active in the lower Mississippi Valley but still lagged behind the average. Kansas' harvest was 15% finished, 5 points ahead of normal. In Nebraska, harvest was 10% complete, 4 points ahead of normal.

COTTON: Sixty-five percent of the acreage was opening bolls, 2 points ahead of normal. Harvest was 14% complete, 7 points behind 1987 but normal. Alabama's harvest progressed rapidly and was 33% finished, 18 points ahead of the average. Texas' harvest was 20% complete, 5 points ahead of normal. Cool, cloudy weather slowed boll opening in the Plains area. Harvest was active in the Blacklands. Cotton harvest was active in southern California. Defoliation was active in the central area. Harvest was 16% complete, 7 points behind normal in Mississippi.

OTHER FIELDS CROPS: Rice harvest was 50% complete, 23 points behind 1987 and 11 points behind the average. Harvest continued behind normal in Arkansas. Harvest was finished in Texas.

Peanut harvest continued. Georgia's harvest was 14% finished, 27 points behind the average. Harvest was 11% finished, 18 points behind normal in Alabama.

Flue-cured and burley tobacco harvests continued slightly behind normal. North Carolina's flue-cured harvest was 84% complete, 4 points behind normal. Harvested burley tobacco was drying and curing well in Kentucky. Tennessee's burley harvest was 88% complete, 7 points behind 1987 but equal to the average.

FRUITS AND NUTS: Florida's citrus groves were in good condition with abundant new growth. Growers were irrigating except in the western counties. Lemon harvest continued in western Arizona. Pistachio harvest neared completion in the central and eastern areas. Grapefruit and fall melon crops were sizing and maturing normally. Early orange harvest began in Texas. Pecans continued to mature in the east and in the Trans-Pecos. Harvest began in the south. Table and wine grape harvests continued in California. Some vineyards were treated for nematode. Other harvest activity included asian pears, soft dates, and figs. Prune and stone fruit harvests were nearly complete.

VEGETABLES: Winter crop planting was active in Florida. Fall crop harvest included cucumbers, eggplant, and peppers. Fall lettuce, cauliflower, and broccoli plantings continued in Arizona. Harvest activities included asparagus, white corn, and winter squash. Pepper, cucumber, carrot, and cabbage harvests continued in the Texas High Plains. Tomato and pepper harvests continued in the Trans-Pecos area. California harvest activity included artichokes, broccoli, cauliflower, and lettuce. Processing tomato harvest was complete in the Sacramento Valley.

PASTURES AND LIVESTOCK: Pasture condition was mostly fair. Livestock was mostly good.

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 totals mostly under 0.50 in.; 1.00 to 2.00 in. isolated areas. Temperatures 5 to 7° above normal.

Days suitable for fieldwork 4.3. Soil moisture 2% very short, 16% short, 65% adequate, 17% surplus. Above normal rainfall for September has replenished soil moisture, promoted pasture growth, refilled ponds, but has caused harvest delays, declining conditions some crops. Soybeans 97% setting pods, 99% 1987, 100% avg.; 41% turning color, 58% 1987, 54% avg.; 22% dropping leaves, 35% 1987, 29% avg.; 14% mature, 22% 1987, 16% avg.; 2% harvested, 12% 1987, 5% avg.; 1% very poor, 4% poor, 25% fair, 68% good, 2% excellent. Corn 72% harvested, 80% 1987, 76% avg. Sorghum 49% harvested, 57% 1987, 58% avg.; 12% poor, 41% fair, 47% good. Cotton 94% bolls opened, 92% 1987, 79% avg.; 33% harvested, 35% 1987, 15% avg.; 10% very poor, 10% poor, 72% fair, 8% good. Peanuts 25% dug, 31% 1987, 41% avg.; 11% combined, 22% 1987, 29% avg.; 27% fair, 73% good. Wheat 17% seeded, 12% 1987, 8% avg. Pasture, livestock good to fair. Primary activities: Harvesting row crops, hay, summer vegetables; defoliating, harvesting cotton; fertilizing, over seeding pastures; planting small grains, winter grazing crops; repairing harvest equipment; planting fall vegetables; routine care of livestock, poultry.

ALASKA: Wet weather prevailed midweek, killing frost ended growing season in localities spared last week but overall, growers continue to harvest hay, small grains, potatoes. Lows lower than normal, 3 to 9°. Highs higher than normal all stations, 2 to 11°. Seasonal precipitation totals 3.33 in. wetter than normal Clearwater to 1.53 in. drier than normal Wasilla.

Days suitable for haying, harvest of small grains 3.0. Topsoil, subsoil moisture adequate. Second crop hay 70% harvested with rain, heavy morning moisture limiting harvest days. Winter straw availability mostly adequate to surplus. Small grain harvest generally done in all areas except Matanuska Valley where growers hoping for drier weather to complete harvest. Commercial potato harvest active, 85% dug. Livestock mostly good to excellent.

ARIZONA: Sunny skies, near normal temperatures 18th, 19th. Southerly winds, 30 to 40 mph 20th; showers southeast. Afternoon temperatures 10 to 15° lower. On 22nd, afternoon temperatures cooler east by as much as 7°; temperatures rebounded extreme west. Sunny skies, warming trend prevailed 23rd, 24th; temperatures near normal 24th. Rainfall trace to 1.00 in. east; no rain west. Temperatures 1 to 7° below normal.

Cotton defoliation, harvest increased; most activity west. Many fields picked once west. American-pima fields continued to mature, open bolls. Elsewhere, defoliation began. Boll weevils, whiteflies problem central. Alfalfa harvest remained active; light to moderate weed, insect infestations. Selected fields prepared for replanting, renovation; good to excellent statewide. Lemon harvest continued west; grapefruit sizing, maturing normally. Fall asparagus harvested. Planting, irrigation of fall lettuce, cauliflower, broccoli continued; stand establishments generally satisfactory. Fall melons sizing, maturing normally. Central area honeydews, cantaloupe shipped from Aguila, Salt River Valley. Watermelons continued to be shipped. Apple

harvest, packing continued east. Green chilies, white corn, winter squash, watermelons also harvested. Pistachio harvest neared completion central, east.

ARKANSAS: Warm early, cooling trend weekend. Widely scattered showers northern portion, light to moderate rainfall. Temperature extremes 44°; 102°. Rainfall totals none to 3.18 in.

Days suitable for fieldwork 6.0. Soil moisture supplies 67% short, 33% adequate, 4% surplus. Major farming activities: Cotton, corn, rice, sorghum harvest; wheat, oat seed bed preparation; fertilizing, planting fall forages, pastures; applying defoliants; harvesting fruits; cutting hay. Soybeans 94% setting pods, 97% 1987, 97% avg.; 32% yellowing, 45% 1987, 39% avg. Rice 83% ripe, 97% 1987, 84% avg. Corn 84% harvested, 99% 1987, 89% avg. Sorghum 98% turning color, 100% 1987. Apple harvest winding down. Pecan yield, size prospects good. Peanut digging underway. Pasture, range 3% very poor, 42% poor, 36% fair, 19% good. Hay, roughage supplies 6% very short, 75% short, 19% adequate, Stockwater supplies 43% short, 57% adequate. Livestock good.

CALIFORNIA: Near normal conditions. Temperatures varied little from average, nights cooler. Light precipitation few places.

Excellent weather, rapid progress harvest, other field activities. Rice harvest gained momentum. Additional fields drained. Cotton harvest active southern. Defoliation increased central. Sugarbeet, sunflower, dry bean, grain corn harvests good progress. Alfalfa, corn silage, sudan harvests active. Ground preparations active. Seed corn southern areas good growth. Disease, insect controls normal. Apples harvested, granny smith predominant variety. Asian pear, soft date, fig harvests continued. Table, wine grape harvests active. Raisin harvest continued. Fresno County 30% in rolls, 35% picked up, placed in bins; Tulare County 50% picked up. Some vineyards treated for nematode. Kiwifruit growers prepared early October harvest. Olive harvest gathered momentum both fresh pack, processors. Stone fruit harvest wound down. Pomegranate, quince packing continued. Prune harvest neared completion. Pistachio, chestnut early variety walnut, late variety almond, crops harvested. Valencia orange picking continued. Riverside County grapefruit, desert lemon harvests winding down. Lemons good quality, yield. Vegetable activity mostly unchanged from last week. Artichoke, broccoli, cauliflower, carrot, celery, lettuce harvested Salinas, Santa Maria. Broccoli, cauliflower growing well Riverside, planted Cutler-Orosi. Lettuce fields thinned Riverside, growing well Westside. Melons harvested Merced-Atwater, Sacramento Valley, Westside, Cutler-Orosi. Melon bloom, set good Riverside. Sweetpotatoes harvested Merced-Atwater. Harvested russet potatoes lower Klamath Basin. Central coast strawberries moderate, unusually late season. Fresh market tomatoes harvested Merced-Atwater. Processing tomatoes harvested Westside, harvest complete Sacramento Valley. Livestock good. Non-irrigated pasture, rangeland dry most areas. Irrigated pasture growth slowed cooler temperatures northern counties. Cattle moved off summer ranges. Supplemental feeding continued. Water short supply most areas. Hay, roughage supplies 85% adequate, 15% short.

COLORADO: Mostly dry, mild through 22nd. Showers river basins 23rd. Precipitation 0.75 to 1.09 in. Temperature 1° below normal east to 2 to 4° below normal west of continental divide.

Days suitable for fieldwork 6.0. Soil moisture 4% very short, 32% short, 60% adequate, 4% surplus. Corn 96% dented, 55% mature, 6% harvested. Dry beans cut 81%, 56% threshed. Oats 97% harvested. Dry onion 54% harvested. Summer potatoes 70% harvested; fall potatoes 24%. Winter wheat 65% planted, 34% emerged. Sorghum 86% turning color, 35% mature, 1% harvested. Livestock mostly fair to good. Ranges, pastures fair to good.

FLORIDA: Summer like heat continued with no autumn weather in prospect. Rainfall amounts below normal, only widely scattered showers, thunderstorms, less than 0.50 in. Temperatures 2 to 4° above normal.

Soil moisture mostly adequate. Peanut harvest, haymaking active. Farmers prepared for cotton harvest. Soybeans, sugarcane good progress. Sugarcane planting active. Grazing generally good to excellent. Few poorly drained west central pastures remained wet while more rain would benefit higher, sandy soils, some upper Peninsula, eastern Panhandle areas. Cattle, calves remained mostly good to excellent. Citrus trees very good. Moisture adequate western counties but most other areas irrigating. Abundant new growth all trees. Fresh grapefruit harvest, shipping underway. Caretakers very active. Temperatures continued hot, vegetable producing areas. Limited rainfall benefited planting conditions. Planting winter crops active. Fall crops being harvested included cucumbers, eggplant, peppers.

GEORGIA: Rainfall less than 0.33 in. most locations, 1.00 in. north, 1.00 to 2.00 in. common east. Greatest total 2.40 in. Clyn. Rain 1 or 2 days. Temperatures 4 to 5° above normal. Extremes 44° Blairsville to 95° Albany, Bainbridge.

Days suitable for fieldwork 5.3. Soil moisture 7% short, 85% adequate, 8% surplus. Some cotton fields defoliated, others abandoned, bolls opening slow. Sorghum 50% harvested. Peanuts fair to good, harvest active; 29% dug, 55% 1987, 55% avg.; 14% threshed, 37% 1987, 41% avg. Soybeans fair to good; insect problems varied, corn earworm increasing north and central, less south. Seeding rye, other small grains near average. Apple harvest slow. Spraying pecans for aphids. Pastures, hay fair to good. Cattle, hogs mostly good.

HAWAII: Favorable weather. Mostly sunny after morning showers. Temperatures reached low 90s but afternoon cloudiness, regular irrigation, nocturnal showers helped maintain crop growth. Trade winds picked up as week progressed. Rainfall none to 2.80 in. Temperatures mid 70s to low 90s. Winds variable 10 to 30 mph.

Days suitable for fieldwork 7.0. Most crops fair to good. Chinese cabbage production moderate. Head cabbage output steady. Cucumber production mostly light, increase expected next week. Snap bean production light to moderate. Banana harvesting remained active. Papaya production decreased.

IDAHO: Temperatures below normal. Precipitation mostly above normal, north; mostly below normal elsewhere.

Days suitable for fieldwork 6.0. Soil moisture 33% very short, 43% short, 20% adequate, 4% surplus. Potatoes 20% harvested, 34% 1987, 28% avg. Winter wheat 24% planted, 40% avg.; 5% emerged. Russian wheat aphid, lack of soil moisture may delay fall seeding. Sugarbeets 4% harvested, 7% 1987. Dry beans 75% harvested. Onions 70%

harvested, 69% 1987. Plum harvest wrapping up. Apples 13% harvested, 36% 1987. Hops 90% harvested. Third cutting alfalfa hay 78% harvested, 51% avg. Range, pasture poor. Hay, roughage, short, adequate. Livestock good.

ILLINOIS: Temperatures 1 to 2° of normal. Precipitation variable. Totals east central, extreme south exceeded 1.00 in., few locations 2.00 in., west central less than 0.10 in.

Days suitable for fieldwork 5.0. Soil moisture 82% short, 18% adequate. Soybeans 96% turning yellow, 100% 1987, 93% avg. Pasture 8% very poor, 32% poor, 43% fair, 17% good.

INDIANA: Temperatures within 1° of normal statewide. Lows low to mid 40s, highs low 80s to 90s. Precipitation scattered. Totals less than 0.50 to 2.00 in.

Days suitable for fieldwork 4.7. Topsoil moisture 32% short, 65% adequate, 3% surplus. Subsoil moisture 83% short, 17% adequate. Corn, soybean condition virtually unchanged. Pastures 1% very poor, 22% poor, 59% fair, 17% good, 1% excellent. Soybeans 45% mature, 82% 1987, 53% avg. Wheatland 55% plowed, 52% 1987, 45% avg. Rye 22% seeded, 30% 1987, 22% avg. Heavy rain some areas slowed corn, soybean harvest.

IOWA: Temperatures 1° below normal north to 2° above normal south; extremes 36 to 94°. Precipitation 0.80 in.; extremes trace to 5.03 in.

Days suitable for fieldwork 4.7. Topsoil moisture 54% short, 46% adequate; subsoil moisture 98% short, 2% adequate. Corn 14% very poor, 31% poor, 42% fair, 13% good. Soybeans lodging 11% none, 79% light, 9% moderate, 1% heavy; shattering 10% none, 65% light, 23% moderate, 2% heavy; 4% very poor, 36% poor, 45% fair, 15% good. Winter wheat 35% seeded, 25% 1987, 24% avg. Livestock mostly good. Some feedlots muddy from early week rains. Pasture 17% very poor, 34% poor, 37% fair, 12% good.

KANSAS: Temperatures 66° northwest to 70° south central; 4° above normal northwest, normal southwest, 1 to 3° above normal elsewhere. Precipitation 3.00 to 5.00 in. southeast, influenced by Hurricane Gilbert. Remainder of eastern area received 0.25 to 0.50 in. with heavier local amounts. Western area 0.25 in. with isolated heavier amounts.

Days suitable for fieldwork 5.0. Topsoil moisture 49% short, 50% adequate, 1% surplus. Subsoil moisture 72% short, 28% adequate. Corn harvest rapid progress, ahead of 1987 and average. Sorghum, soybean harvest modest progress. Wheat seeding behind normal but pushed ahead rapidly west taking advantage of previous rains. Russian wheat aphids present western counties volunteer wheat. None found yet in current crop. Wheat curl mites and wheat streak mosaic present several areas west in volunteer wheat. Range, pasture very poor, some improvement seen from recent moisture. Calves to market earlier some locations due to lack of supporting pastures. Fourth cutting alfalfa 70%. Hay, roughage supplies 13% very short, 37% short, 50% adequate.

KENTUCKY: Temperatures 1 to 2° above normal; lows in 40s and 50s, highs in 80s. Cold front near weekend produced heavy rainfall 2.50 in. south, 0.50 in. north.

Days suitable for fieldwork 5.1. Soil moisture 2% very short, 55% short, 42% adequate, 1% surplus. Tobacco, corn, hay harvests active; soybean harvest began. Corn yields very poor to good, later planted expected to yield higher. Soybean yields will be highly variable. Worms caused damage to soybeans. Burley 85% cut, nearly finished this

date 1987. Burley drying, curing with minimal houseburn. Fall pastures supplying most roughage needs. Pastures 3% very poor, 7% poor, 47% fair, 37% good, 6% excellent. Apple harvest active, fair to good yields.

LOUISIANA: Temperatures 4 to 8° above normal. Temperature extremes 65°; 95°. Rainfall none to 0.82 in.

Days suitable for fieldwork 5.5. Soil moisture 19% short, 60% adequate, 21% surplus. Corn 97% harvested. Cotton 43% fair, 57% good. Rice 97% ripe. Soybeans 45% fair, 45% good, 10% excellent; 100% setting pods; 33% turning color. Farmers spraying for stinkbugs. Sweetpotatoes good; 57% harvested. Sugarcane good; 47% planted. Hay final cutting 64%. Hay, roughage supplies 45% short, 53% adequate, 2% surplus. Livestock, pecans good. Pastures fair to good. Vegetables fair. Some winter wheat planted north. Main activities: Harvesting corn, cotton, hay, rice, sorghum, soybeans, sweetpotatoes; preparing winter pastures; planting sugarcane.

MARYLAND & DELAWARE: **MARYLAND:** Precipitation 0.26 in. Temperature 69°, normal 67°. Temperature extremes 40°; 91°.

Days suitable for fieldwork 6.2. Topsoil moisture 30% short, 70% adequate. Subsoil moisture 30% short, 70% adequate. Hay supplies 15% short, 85% adequate. Corn 40% poor, 40% fair, 20% good; 95% dent, 97% avg.; 75% mature, 75% avg.; silage 90% harvested, 85% avg.; grain 25% harvested, 35% avg. Soybeans 40% fair, 60% good; 98% podded, 99% avg.; 40% turning, 60% avg. Tobacco 100% good; 95% harvested, 85% avg. Alfalfa 4th cutting 60%, 65% avg. Apples 30% fair, 70% good; 55% harvested, 50% avg.

DELAWARE: Precipitation 0.13 in. Temperature 70°, normal 67°. Temperature extremes 46°; 88°.

Days suitable for fieldwork 6.0. Topsoil moisture 100% adequate. Subsoil moisture 25% short, 75% adequate. Hay supplies 100% adequate. Corn 100% fair; 100% dent, 95% avg.; 75% mature, 90% avg.; silage 95% harvested, 90%; grain 30% harvested, 30% avg. Soybeans 100% good; 20% turning, 55% avg. Alfalfa 4th cutting 80%, 85% avg. Apples 100% good; 40% harvested, 45% avg.

MICHIGAN: Temperatures 1 to 4° above normal. Temperature extremes 33°; 87°. Precipitation 0.68 to 5.15 in.

Days suitable for fieldwork 2.5. Soil moisture 5% short, 60% adequate, 35% surplus. Corn 30% mature, 75% 1987, 65% avg.; 2% harvested, 5% 1987, 4% avg.; 10% very poor, 25% poor, 40% fair, 22% good, 3% excellent. Soybeans 55% shedding, 85% 1987, 75% avg.; none harvested, 5% 1987, 2% avg.; 5% very poor, 10% poor, 40% fair, 35% good, 10% excellent. Winter wheat 15% planted, 15% 1987, 10% avg.; 1% emerged, 5% 1987, none avg. Dry beans 10% harvested, 15% 1987, 25% avg.; 5% very poor, 20% poor, 50% fair, 20% good, 5% excellent. Pastures supplying 40% livestock feed. Major activities: Harvesting corn silage, hay, forage, dry beans, soybeans, fruit and vegetables, seeding winter wheat.

MINNESOTA: Temperatures 3° below to 2° above normal. Temperature extremes 32°; 89°. Precipitation 0.20 to 3.08 in. Greatest weekly total 4.95 in.

Days suitable for fieldwork 3.9. Topsoil moisture 4% very short, 41% short, 46% adequate, 9% surplus. Corn 96% mature, 94% 1987, 62% avg.; 25% combined, 6% 1987, 3% avg.; 83% silage cut, 75% 1987, 42% avg. 24% moisture content, 26% 1987. Soybeans 96% mature, 90% 1987, 47% avg.; 42% combined, 17% 1987, 6% avg.; 14% moisture content,

14% 1987. Sugarbeets 1% harvested, 13% 1987, 11% avg. Dry edible beans 64% harvested, 83% 1987, 50% avg. Potatoes 51% harvested, 73% 1987, 54% avg. Flax 83% harvested, 94% 1987, 69% avg. Sunflowers 42% harvested, 8% 1987, 2% avg. Winter wheat 93% seeded, 96% 1987, 82% avg. Rye 93% seeded, 94% 1987, 81% avg. Hay, grain 72% stubble plowed, 74% 1987, 62% avg.

MISSISSIPPI: High pressure provided warm days, cool nights; mostly dry weather. Rainfall 0.55 in. below normal. Extreme temperatures 56°; 98°.

Days suitable for fieldwork 5.3, 6.4 1987, 5.9 avg. Soil moisture 20% short, 75% adequate, 5% surplus. Corn 55% harvested, 80% 1987, 70% avg. Sorghum 61% harvested, 86% 1987, 71% avg. Cotton good to fair; 16% harvested, 37% 1987, 23% avg. Soybeans fair; 2% harvested, 6% 1987, 5% avg. Rice good; 48% harvested, 78% 1987, 64% avg. Hay 87% harvested, 92% 1987, 91% avg. Corn silage 96% harvested, 98% 1987, 97% avg. Sorghum silage 87% harvested, 95% 1987, 91% avg. Sweetpotatoes 51% harvested, 48% avg. Peanuts 71% harvested, 63% avg. Pecans fair to good. Wheat 13% planted, 9% 1987, 8% avg. Livestock good. Pasture good. Hay, roughage supplies 45% short, 55% adequate. Worm problems in soybeans. Activities: Harvesting all crops, applying insecticides on soybean fields.

MISSOURI: Temperatures 2° below normal southwest to 4° above normal northeast. Over 4.00 in. rain Springfield, Joplin, 1.75 in. Bootheel, 0.50 in. northern half.

Days suitable for fieldwork 5.1. Topsoil moisture 60% short, 36% adequate, 4% surplus. Corn harvest varies 30% east central to 77% southeast. Sorghum 52% harvested southeast, less than 20% other areas. Soybean harvest began all areas. Need substantial rain northern counties to fill stock ponds. Stockwater supplies 21% critically short, 43% short, 36% adequate. Pastures 16% very poor, 24% poor, 51% fair, 8% good, 1% excellent, still poorest northern areas.

MONTANA: Strong system first half of week dumped precipitation on northeast, southeast. Several stations in those areas received over 1.00 in. while most other stations measured less than 0.50 in. Second half of week dry. Temperatures 4 to 8° below normal.

Days suitable for fieldwork 3.9. Topsoil moisture 35% short, 62% adequate, 3% surplus. Subsoil moisture 80% short, 18% adequate. Potatoes 15% harvested, 25% 1987, 17% avg. Corn silage 75% harvested, 46% 1987, 61% avg. Dry beans 72% harvested, 54% 1987, 58% avg. Pasture, range feed 50% very poor, 32% poor, 16% fair, 3% good. Cattle, calves moved from summer pastures 74%, 30% 1987, 42% avg. Sheep, lambs moved 74%, 33% 1987, 46% avg.

NEBRASKA: Showers beginning week produced rainfall amounts up to 1.00 in. Temperatures 2° below normal to 3° above normal. Extremes 32°; 92°.

Days suitable for fieldwork 5.3. Topsoil moisture 27% short, 71% adequate, 2% surplus. Subsoil moisture 53% short, 46% adequate, 1% surplus. Corn 15% harvested, 7% 1987, 6% avg. Soybeans 12% harvested, 11% 1987, 7% avg. Sorghum 10% harvested, 9% 1987, 6% avg. Winter wheat 25% emerged, 51% 1987, 49% avg. Pasture, range feed supplies 6% very short, 42% short, 52% adequate.

NEVADA: Low pressure trough dropped significant rainfall early central, south central areas. Light amounts to trace elsewhere. Sunny skies returned midweek. Temperatures fell to below normal levels early. First snow of season Sierras west. By end of period temperatures returned to normal.

Dry weather ideal harvesting potatoes, hay, remaining acreages alfalfa seed northern areas. Hay roughage supplies 33% short, 60% adequate, 7% surplus.

NEW ENGLAND: Precipitation 0.50 to 1.00 in. southwest Connecticut, north; 0.25 to 0.50 in. remainder south. Temperatures low 50s northern Maine to upper 60s coastal south. Temperatures near normal central, north; slightly above normal south.

Days suitable for fieldwork 6.0. Fieldwork 2.0 days ahead. Soil moisture 4% short, 92% adequate, 4% surplus. Grazing availability 10% short, 90% adequate. Maine potatoes 35% dug, 35% 1987, 38% avg.; good. Rhode Island potatoes 65% harvested, 58% 1987, 77% avg.; good. Connecticut River Valley potatoes 42% dug, 44% 1987, 45% avg.; fair to good. Field corn 40% harvested, 35% 1987, 34% avg.; good. Sweet corn 97% picked, 91% 1987, 93% avg.; good. Second crop hay 92% cut, 94% 1987, 94% avg.; good. Third crop hay 72% cut, 61% 1987, 69% avg.; good. Apples 46% harvested, 39% 1987, 33% avg.; good; medium size; color fair to good. Cranberries 10% harvested; color excellent; good. Major farm activities: Harvesting corn silage, hay, potatoes, and other various fall fruits and vegetables. Began fall cleanup.

NEW JERSEY: Temperatures much above normal. Extremes 43°; 89°. Rainfall 0.17 in. north; 0.37 in. central, 0.70 in. south. Heaviest 24-hour total 0.92 in. on 24th, 25th. Estimated soil moisture percent field capacity averaged 86% north, 64% central, 60% south. Four inch soil temperatures averaged 63° north, 65° central, 67° south.

Soil moisture adequate most agricultural areas. Temperatures favorable for growth, maturity of late season crops. Fall vegetable harvest increased. Apple picking active. Cranberry harvest began. Corn silage making continued active. Harvest corn for grain began. Soybeans in leaf dropping stage. Pasture growth good. Seeding of grain, cover crops active. Germination good on early seeding. Hay, roughage supplies 30% short, 70% adequate.

NEW MEXICO: Heavy rain many locations, freezing temperatures mountainous areas; temperatures 27 to 91°.

Days suitable for fieldwork 4.8. Soil moisture 12% short, 38% adequate, 50% surplus. Cotton 75% bolls open; 33% fair, 67% good. Wheat 38% fair, 62% good; 70% planted, 60% emerged. Cattle 57% good, 43% excellent. Sheep 57% good, 43% excellent. Ranges 14% fair, 57% good, 29% excellent.

NEW YORK: Temperatures 1 to 5° above normal. Temperatures up to 10° above normal beginning week, reasonable toward weekend. Rainfall well above normal. Most areas received 0.50 to 1.50 in. Heaviest amount 1.72 in. at Syracuse. Rain mainly in showers, thunderstorms.

Days suitable for fieldwork 5.0. Soil moisture adequate. Pastures fair to good. Corn, hay fair to mostly good. Third cutting alfalfa 69%, 68% 1987, 62% avg. Corn for silage harvest full swing; 23%, 16% 1987, 15% avg. McIntosh harvest in Lake Ontario area continued active. Bosc pear harvest started. Cool weather showed tomato ripening. Onion, beet harvest continued. Snap bean harvest completed. Storage cabbage sizing well. Harvest expected to begin during first week of October.

NORTH CAROLINA: Temperatures 3 to 4° above normal. Temperature extremes 41°; 92°. Precipitation 0.01 to 2.36 in.

Days suitable for fieldwork 4.8. Soil moisture 11% short, 76% adequate, 13% surplus. Pasture 4%

poor, 29% fair, 58% good, 9% excellent. Flue-cured tobacco 84% harvested, 86% 1987, 88% avg. Peanuts fair to mostly good. Sweetpotatoes 26% fair, 68% good, 6% excellent; 18% harvest, 25% 1987, 20% avg. Apples 53% harvested, 64% 1987, 55% avg.; 45% fair, 55% good. Corn silage 88% harvest, 92% 1987, 88% avg. Sorghum for grain 32% harvested, 34% 1987, 29% avg.; 8% poor, 43% fair, 47% good, 2% excellent. Burley tobacco 76% harvest, 88% 1987, 77% avg. Major farm activities: Tobacco harvesting, marketing; baling hay; harvesting corn silage, corn, sweetpotatoes, sorghum, apples; spraying soybeans, peanuts, cotton; defoliating cotton; shearing Christmas trees; land preparation for fall planting; tending livestock, general farm maintenance.

NORTH DAKOTA: Cool, precipitation early. Temperatures 2 to 5° below normal statewide. Extremes 25°; 84°. Precipitation 0.15 in. south central to 1.64 in. southeast.

Days suitable for fieldwork 6.0. Topsoil moisture 46% very short, 37% short, 17% adequate. Subsoil moisture 72% very short, 26% short, 2% adequate. Row crop harvest ahead of average progress. Sunflower 14% combined, 1% 1987, 1% avg.; corn for grain 34%, 2% 1987, 3% avg.; dry edible beans 83%, 71% 1987, 50% avg.; soybeans 58%, 31% 1987, 19% avg.; flax 88%, 77% 1987, 63% avg.; corn for silage 96% cut, 62% 1987, 64% avg.; potatoes 66% dug, 84% 1987, 59% avg.; sugarbeets 5% lifted, 14% 1987, 11% avg. Dry soil conditions held fall planting of winter wheat, rye behind average pace. Pastures 46% very poor, 44% poor, 8% fair, 2% good; furnished 58% of roughage requirements. Hay, roughage supplies 82% very short to short, 18% adequate.

OHIO: Temperatures near normal north, central; 2 to 4° above normal south. Lows in 50s; highs in 70s. Precipitation beginning and end totaled up to 0.75 in.

Days suitable for fieldwork 5.2. Soil moisture 22% short, 74% adequate, 4% surplus. Crop progress, harvest progress lagging recent years. Corn poor to fair. Grain, beans drying down slowly. Soybean fields weedy; need killing frost or spray before harvest. Soybeans poor to fair. Grasslands fair to good. Winter wheat seeding delayed by wet soils, slow soybean harvest. Tobacco curing weather good. Nursery plants showed drought-related injury.

OKLAHOMA: Temperatures 3° below normal north central to 1° above normal east central. Precipitation 0.26 in. Panhandle to 2.23 in. central.

Days suitable for fieldwork 4.8. Topsoil moisture 20% short, 65% adequate, 15% surplus. Subsoil moisture 40% short, 60% adequate. Cotton 25% fair, 60% good, 15% excellent; 50% open bolls, 20% 1987, 35% avg.; none harvested, none 1987, 1% avg. Sorghum 2% poor, 30% fair, 65% good, 3% excellent; 25% mature, 45% 1987, 40% avg.; 10% harvested, 5% 1987, 10% avg.; over 1 week behind normal development. Peanuts 65% mature, 35% 1987, 35% avg.; 1% harvested, 2% 1987, 3% avg. Soybeans 10% mature, 35% 1987, 25% avg.; 1% harvested, 3% 1987, 5% avg. Corn 65% harvested, 75% 1987, 70% avg. Pastures greening. Cattle marketings average, prices up from last week.

OREGON: Temperatures below normal throughout State. East especially cool 5 to 8° below normal. Many stations first precipitation of fall. Dusting of snow few higher elevations.

Soil moisture 84% short, 16% adequate. Barley 4% seeded, 9% 1987. Hay; roughage supplies 24% short, 67% adequate, 9% surplus. Light rains slowed fieldwork east, growers awaiting weed growth. Fourth alfalfa cutting Hermiston, 3rd

cutting southeast. Red clover seed harvested west. Field preparations for grass seed, grains, crimson clover Willamette Valley. Hard nighttime frosts halted grass, legume growth northeastern mountains. Apples harvested Milton-Freewater, Hood River. Winter pear harvest full swing Hood River, Medford. Pear, apple picking also west. Wine grape harvest Hermiston; preharvest activities Willamette Valley. Prune harvest completed Willamette Valley. Fall copper sprays applied to peaches, cherries west. Some fall bearing raspberries picked. Cranberry harvest just began south coast. Harvest of early potato varieties complete Hermiston-Boardman. Vines sprayed central area, expect to dig potatoes next week. Onion harvest 70% Malheur County. Most onions lifted Willamette Valley, still picking up after field drying. Sweet corn harvest continued west. Melon harvest complete Hermiston. Livestock mostly good. Cattle moved off eastern rangeland little early. Ranges, pastures poor to fair. Recent rains not sufficient to start fall regrowth most areas.

PENNSYLVANIA: Warm temperatures, below normal rainfall although rain in Commonwealth every day. Temperature 64°, 2° above normal. Temperature extremes 32°, 86°. Precipitation 0.51 in., 0.33 in. below normal.

Days suitable for fieldwork 4.0. Soil moisture 27% short, 67% adequate, 6% surplus. Corn 95% dough, 100% 1987, 100% avg.; 66% dent, 88% 1987, 86% avg.; 14% mature, 43% 1987, 31% avg.; 1% harvested, 5% 1987, 4% avg.; 15% very poor, 29% poor, 34% fair, 19% good, 3% excellent. Ensilage corn 36% harvested, 55% 1987. Soybeans none harvested, 4% 1987; 7% very poor, 21% poor, 38% fair, 30% good, 4% excellent. Wheat 27% planted, 30% 1987. Barley 33% planted, 44% 1987. Tobacco 88% harvested, 95% 1987. Potato 47% harvested, 60% 1987. Third cutting alfalfa 83%, 71% 1987; 4th cutting alfalfa 36%, 36% 1987. Second cutting clover-timothy 95%, 94% 1987. Hay, roughage supplies 11% very short, 56% short, 31% adequate, 2% surplus. Livestock feed now obtained from pastures 34%. Quality of hay fair. Feed from pastures average. Apples 42% harvested, 47% 1987. Peaches 96% harvested, 98% 1987. Grapes 25% harvested, 52% 1987. Fall plowing 51%, 54% 1987. Activities: Harvesting corn silage, hay, haylage, tobacco, fruit, potatoes, other vegetables; planting wheat, barley; fall plowing; controlling weeds; caring for livestock; maintaining machinery.

PUERTO RICO: Island rainfall 1.34 in., 0.51 in. below normal. Highest weekly total rainfall 4.57 in. San Sebastian, 3.30 in. Sabana Grande, 2.77 in. San Juan City. Highest 24-hour total 2.67 in. San Sebastian. Accumulated total rainfall since January 1st 48.04 in. 12% above normal. San Juan WSFO temperature 82°. Total rainfall 0.94 in., 0.46 in. below normal. Divisional temperature 80° on coast, 75 to 78° interior with mean station temperature 75° Juncos to 83° Roosevelt Roads. Lowest minimum temperature 58° Isabela. Highest maximum temperature 94° San Sebastian.

SOUTH CAROLINA: Temperatures mid 70s upstate to low 80s Midlands, Coastal Plains. Rainfall 0.10 to 1.85 in.

Days suitable for fieldwork 5.1. Soil moisture 19% short, 78% adequate, 3% surplus. Cotton 65% open bolls, 86% 1987, 83% avg.; 2% very poor, 19% poor, 76% fair, 3% good. Soybeans 96% setting pods, 95% 1987, 94% avg.; 19% leaves turning, 23% 1987, 25% avg.; 6% leaves shedding, 8% 1987, 9% avg.; 1% matured, 1% 1987, 2% avg.; 38% fair, 62% good. Tobacco stalks 43% destroyed, 51% 1987, 55% avg. Corn poor to fair; 56% harvested, 73% 1987, 79% avg. Peanuts fair to good; 5% harvested, 14% 1987, 16% avg. Sorghum fair; 28%

harvested, 49% 1987, 39% avg. Pastures fair to good. Livestock fair to good.

SOUTH DAKOTA: Temperatures 4° below to 3° above normal. Extremes 27°, 96°. Rainfall above normal over much of east, central; below normal over much of west. Largest amounts, northeast.

Days suitable for fieldwork 4.3. Topsoil moisture 31% critically short, 25% short, 44% adequate. Rain received first part of week, many operators now seeding winter wheat. Still waiting for moisture in west river counties, some of them will not plant if weather remains dry.

TENNESSEE: Weakening cold front early week. High pressure dominated midweek. Active cold front late week. Temperatures 5 to 7° above normal south, slightly below normal north. Substantial rainfall late week, 2.00 to 3.00 in. some areas.

Days suitable for fieldwork 5.0. Soil moisture 1% very short, 32% short, 65% adequate, 2% surplus. Pasture feed condition normal. Corn 84% mature, 96% 1987, 89% avg.; 26% harvested, 56% 1987, 35% avg. Burley 88% harvested, 95% 1987, 88% avg. Main activities: Harvesting corn, sorghum, vegetables; defoliating, harvesting cotton; fertilizing pastures; repairing machinery; tending livestock, poultry.

TEXAS: Early week cool front triggered thunderstorms northeast, central. Cool temperatures High Plains, warm to hot elsewhere. Midweek, upper air disturbance thunderstorms High Plains, Trans-Pecos, spread north, south central, southeast has drifted southward. Rain all areas but Edwards Plateau. Amounts below normal except High Plains, Trans-Pecos. Temperatures below normal Southern High Plains, Low Plains, Trans-Pecos, near to above normal elsewhere.

Crops: Corn producers High Plains continued harvesting operations, as fields dried. High winds accompanied rain, lodging some fields. Early yields good. Grain sorghum harvest getting underway late week Plains. High winds, some hail caused problems some fields. Harvest virtually completed Hill Country, Cross-Timbers as fields dried. Sorghum 96% turning color, 98% 1987, 94% avg. Cotton continued to mature slowly Plains because lack sunshine, warmer temperatures. Heavy rains some areas caused problems open cotton. Some defoliating took place late week Low Plains. Harvest continued full swing across much Blacklands mostly open weather. Yields very good. Cotton opening slowly Trans-Pecos, scattered rain, cool temperatures occurred. Small grain planting increased late week many parts Plains, good moisture. Rainfall beneficial to fields up to stands. Planting continued Blacklands, central, even though adequate moisture not available. Early fields up to stands; growth slow. Rice harvest 1st crop completed. Peanut harvest gained momentum, more dryland producers began harvest Cross-Timbers. Because dry weather, yields below 1987. Harvest continued south, average to below average yields. Irrigated yields expected good. Rainfall Low Plains, Cross-Timbers relieved irrigation needs. Soybean harvest High Plains nearing. Harvest continued Blacklands, northeast. Winding down coast.

Other Field Crops: Peanuts 13% harvested, 10% 1987, 11% avg. Pecans none harvested, 1% 1987, 1% avg. Soybeans 33% harvested, 22% 1987, 16% avg. Sugarbeets none harvested, 1% 1987, 2% avg. Sunflowers 18% harvested, 8% 1987, 13% avg. Oats 13% planted, 24% 1987, 23% avg.

Commercial Vegetables: Rio Grande Valley minor damage occurred along river. Other fields good progress. Harvest early oranges began. Damage from hurricane light. San Antonio-Winter Garden normal progress continued. Rainfall beneficial. East sweetpotato harvest continued. Fall

vegetables could use some rain. High Plains harvest peppers, cucumbers, carrots, cabbage continued midweek. Trans-Pecos tomatoes, peppers harvested. Pecan harvest began south, good yields. Shucks continued open east, good crop expected. Some spraying still occurred Cross-Timbers, progress good. Nuts maturing Trans-Pecos.

Range and Pasture: Range conditions improved south, Plains with recent moisture. Portions east, central, Blacklands dry. These areas, more livestock moved to market because declining forage. Prices good.

UTAH: Precipitation light. Temperatures 3 to 5° below normal.

Days suitable for fieldwork 6.0. Soil moisture 48% short, 52% adequate. Winter wheat 60% seeded, 82% 1987, 73% avg. Corn 92% dented, 88% 1987, 81% avg.; 70% mature, 52% 1987, 58% avg.; silage 65% harvested, 69% 1987, 43% avg. Alfalfa 3rd cutting 87% harvested, 81% 1987, 68% avg.; 4th cutting 10% harvested, 14% 1987, none avg.; seed 24% harvested, 18% 1987, 29% avg. Onion harvest well along. Potato harvest well along north, began south. Apple harvest continued. Livestock movement from summer range 29% cattle, 19% 1987, 14% avg.; 33% sheep, 12% 1987, 16% avg. Irrigation water supplies 19% very short, 37% short, 44% adequate. Stockwater supplies 12% very short, 36% short, 52% adequate. Hay, roughage supplies 26% short, 61% adequate, 13% surplus. Range, pasture 12% very poor, 29% poor, 38% fair, 21% good. Livestock fair to good.

VIRGINIA: Temperatures slightly above normal. Range 45 to 95°. Variable precipitation. Most rain received end period. Range trace to 1.21 in.

Days suitable for fieldwork 5.9. Topsoil moisture 7% very short, 39% short, 43% adequate, 11% surplus. Grain corn 40% harvested, 60% 1987, 47% avg.; silage 72% harvested, 90% 1987, 83% avg. Soybeans fair to good; none harvested yet. Peanuts excellent; 6% dug, 3% 1987, 18% avg. Flue-cured tobacco 74% harvested, 60% 1987, 77% avg.; burley 80% harvested, 88% 1987, 89% avg. Barley 17% seeded, 16% 1987, 19% avg. Wheat 3% seeded, 3% 1987, 6% avg. Hay cut. Hay, pastures reseeded. Apples 50% harvested, average crop expected.

WASHINGTON: Weather systems moved through State. First systems weak, later more intense with wide spread rain over most of State. Total rainfall varied 0.18 in. Hoquiam, 1.05 in. Spokane. Temperatures below normal statewide.

Days suitable for fieldwork 5.9. Showers recharged seed zone east, fall seeding continued. Winter wheat 62% planted, 56% 1987, 56% avg.; 34% emerged, 36% 1987, 37% avg. Showers slowed dry bean, corn grain, corn silage harvests. Haying operations also temporarily delayed, no damage.

Hay, roughage feed supplies adequate most areas; range, pasture conditions predominantly short. Precipitation reduced fire danger, provided necessary moisture for regrowth. Storage potato harvest underway. Hop harvest winding down. Red delicious apple harvest in progress early areas. Bartlett pear harvest ongoing. Cranberry growers concerned over lack of irrigation water for harvest. Fall raspberries, everbearing strawberries being picked. Processing vegetables, sweet corn, cauliflower, lima beans, storage onions being harvested. Roadside stands offered shoppers good variety late season vegetables.

WEST VIRGINIA: Temperature 66°, 2 to 5° above normal. Extremes 44° Greenbank; 89° Gary. Precipitation 1.66 in.

Days suitable for fieldwork 4.9. Soil moisture 10% very short, 44% short, 46% adequate. Corn fair to poor; 78% mature. Apples good to fair. Feed supplies 14% very short, 35% short, 51% adequate. Feed from pasture 83%. Farm activities: Haying, filling silos, general farm maintenance.

WISCONSIN: Temperatures normal 58°. Extremes 28°; 85°. Precipitation 1.20 to 3.10 in.

Days suitable for fieldwork 3.3. Soil moisture 44% short, 53% adequate, 3% surplus; best since mid-May. Crops 7% very poor, 38% poor, 45% fair, 10% good. Corn 11% very poor, 40% poor, 42% fair, 7% good; 75% mature, 73% 1987, 61% avg.; grain 9% harvested, 5% 1987, 1% avg.; mostly high moisture. Rain slowed activity. Yields very low. Corn silo filling 68%, 61% 1987, 28% avg. Third crop hay 80% cut, 73% 1987, 64% avg. Hay regrowth good, good condition for winter. Soybeans 70% shedding, 53% 1987, 44% avg. Harvest starting, slowed by rain. Winter wheat, rye look good. Fall plowing 14%, 13% 1987, 9% avg. Pastures improving. Feed, roughage supplies 19% very short, 61% short, 20% adequate.

WYOMING: Temperatures mostly below normal. Precipitation generally below normal.

Days suitable for fieldwork 7.0. Topsoil moisture 78% short, 22% adequate. Subsoil moisture 85% short, 15% adequate. Most small grains harvested. Winter wheat 65% seeded, 85% 1987, 90% avg.; 35% emerged, 50% 1987, 65% avg.; mostly fair. Corn 5% dough, 10% 1987, 10% avg.; 30% dented, 30% 1987, 40% avg.; 60% mature, 55% 1987, 45% avg.; 5% harvested, 5% 1987, 5% avg.; silage 80% harvested, 75% 1987, 80% avg. Dry beans 95% windrowed, 75% 1987; 70% combined, 55% 1987, 70% avg. Sugarbeets 10% dug, 15% 1987, 10% avg. Potatoes 30% harvested, 50% 1987, 60% avg. Livestock moved from summer ranges cattle, calves 40%; sheep, lambs 45%. Roughage supplies 5% very short, 55% short, 35% adequate, 5% surplus. Livestock feed obtained from pastures 80%.

CROP PROGRESS 1/
FOR WEEK ENDING SEPTEMBER 25, 1988

COTTON
% BOLLS OPENING

	1988	1987	AVG.
ALA	94	92	79
ARIZ	99	92	94
ARK	84	96	88
CALIF	90	100	90
GA	63	76	71
LA	87	95	84
MISS	93	97	91
MO	62	100	86
N MEX	75	60	88
N C	84	96	93
OKLA	50	20	35
S C	65	86	83
TENN	80	88	88
TEX	42	37	38

14 STATES 65 65 63

THESE 14 STATES PRODUCED 100% OF THE 1987 COTTON CROP.

COTTON
% HARVESTED

	1988	1987	AVG.
ALA	33	35	15
ARIZ	6	7	5
ARK	10	41	22
CALIF	1	5	1
GA	13	15	10
LA	20	36	26
MISS	16	37	23
MO	9	54	22
N MEX	0	0	0
N C	0	5	5
OKLA	0	0	1
S C	3	10	10
TENN	6	40	18
TEX	20	16	15

14 STATES 14 21 14

THESE 14 STATES PRODUCED 100% OF THE 1987 COTTON CROP.

GRAIN SORGHUM
% MATURE

	1988	1987	AVG.
ARK	83	97	NA
ILL	85	95	NA
KANS	50	45	35
LA	96	99	98
MISS	87	96	95
MO	71	84	77
NEBR	93	78	61
OKLA	25	45	40
S DAK	78	83	54
TENN	80	100	80
TEX	68	73	72

11 STATES 65 65 NA

EXCL. STATES WITH NA 64 64 55

THESE 11 STATES PRODUCED 96% OF THE 1987 GRAIN SORGHUM CROP.

NA - NOT AVAILABLE.

WINTER WHEAT
% PLANTED

	1988	1987	AVG.
ARK	0	0	3
CALIF	0	0	0
COLO	65	52	69
GA	3	3	4
IDAHO	24	42	40
ILL	5	8	6
IND	12	10	10
KANS	25	50	35
MICH	15	15	10
MO	15	13	10
MONT	15	56	35
NEBR	65	85	79
N MEX	70	60	NA
N C	0	0	0
OHIO	7	7	6
OKLA	30	50	25
OREG	17	8	10
S DAK	61	90	83
TEX	51	50	35
WASH	62	56	56

20 STATES 35 47 NA

EXCL. STATES WITH NA 34 47 36

THESE 20 STATES PRODUCED 91% OF THE 1987 WINTER WHEAT CROP.

NA - NOT AVAILABLE.

WINTER WHEAT
% EMERGED

	1988	1987	AVG.
ARK	0	0	0
CALIF	0	0	0
COLO	34	22	35
GA	1	0	0
IDAHO	5	22	19
ILL	0	1	1
IND	4	2	2
KANS	5	20	20
MICH	1	5	NA
MO	6	4	2
MONT	0	0	0
NEBR	25	51	49
N MEX	60	50	NA
N C	0	0	NA
OHIO	0	0	0
OKLA	10	20	5
OREG	2	0	1
S DAK	30	68	54
TEX	29	30	14
WASH	34	36	37

20 STATES 15 22 NA

EXCL. STATES WITH NA 14 22 17

THESE 20 STATES PRODUCED 91% OF THE 1987 WINTER WHEAT CROP.

NA - NOT AVAILABLE.

GRAIN SORGHUM
% HARVESTED

	1988	1987	AVG.
ARK	58	92	74
ILL	14	61	20
KANS	15	15	10
LA	79	91	91
MISS	61	86	71
MO	26	48	35
NEBR	10	9	6
OKLA	10	5	10
S DAK	14	23	5
TENN	36	85	53
TEX	66	58	61

11 STATES 32 34 30

THESE 11 STATES PRODUCED 96% OF THE 1987 GRAIN SORGHUM CROP.

RICE
% HARVESTED

	1988	1987	AVG.
ARK	36	76	57
CALIF	10	15	12
LA	85	95	89
MISS	48	78	64
TEX	100	100	100

5 STATES 50 73 61

THESE 5 STATES PRODUCED 97% OF THE 1987 RICE CROP.

SOYBEANS			
	% DROPPING LEAVES		
	1988	1987	AVG.
ALA	22	35	29
ARK	8	21	19
GA	23	34	36
ILL	82	91	78
IND	80	97	84
IOWA	98	88	79
KANS	85	60	55
KY	34	55	40
LA	18	40	34
MICH	55	85	75
MINN	100	99	82
MISS	19	36	40
MO	56	58	48
NEBR	94	67	59
N C	6	7	9
OHIO	61	94	77
S C	6	8	9
S DAK	100	96	78
TENN	28	57	36
19 STATES	67	72	62

THESE 19 STATES PRODUCED 96%
OF THE 1987 SOYBEANS CROP.

SOYBEANS			
	% HARVESTED		
	1988	1987	AVG.
ALA	2	12	5
ARK	0	0	2
GA	0	2	2
ILL	19	44	21
IND	8	41	11
IOWA	30	9	7
KANS	10	10	5
KY	2	10	4
LA	3	7	5
MICH	0	5	2
MINN	42	17	6
MISS	2	6	5
MO	6	9	6
NEBR	12	11	7
N C	0	0	0
OHIO	5	29	15
S C	0	0	0
S DAK	18	12	6
TENN	0	0	0
19 STATES	14	18	9

THESE 19 STATES PRODUCED 96%
OF THE 1987 SOYBEANS CROP.

CORN			
	% MATURE		
	1988	1987	AVG.
COLO	55	26	41
GA	100	100	100
ILL	95	100	92
IND	80	99	85
IOWA	100	100	90
KANS	95	90	75
KY	76	94	78
MICH	30	75	65
MINN	96	94	62
MO	94	99	94
NEBR	95	81	74
N C	95	99	98
OHIO	42	90	76
PA	14	43	31
S DAK	97	87	74
TEX	98	98	96
WIS	75	73	61

17 STATES 85 90 79

THESE 17 STATES PRODUCED 94%
OF THE 1987 CORN CROP.

CORN			
	% HARVESTED		
	1988	1987	AVG.
COLO	6	0	0
GA	81	90	89
ILL	21	45	18
IND	7	33	11
IOWA	36	12	9
KANS	55	40	20
KY	16	54	26
MICH	2	5	4
MINN	25	6	3
MO	40	45	33
NEBR	15	7	6
N C	29	45	52
OHIO	3	20	10
PA	1	5	4
S DAK	13	10	3
TEX	86	76	77
WIS	9	5	1

17 STATES 20 26 15

THESE 17 STATES PRODUCED 94%
OF THE 1987 CORN CROP.

1/ AVERAGES FOR THESE SUMMARIES
ARE FOR THE YEARS 1983 - 1987.

International Weather and Crop Summary

September 18-24, 1988

HIGHLIGHTS

USSR ... In Western USSR, the first widespread autumn freeze over the Central Region, eastern Black Soils, upper Volga, and the Volga Vyatsk slows winter grain growth. In the New Lands, unseasonably warm, dry weather in West Siberia allows spring grain harvesting to progress rapidly.

EUROPE ... Beneficial rains continue to favor newly planted winter grains in the southeast.

SOUTH ASIA ... Showers benefit reproductive to filling crops but cause some flooding in the north and southeast. Dry weather in the east allows flooding to subside.

EASTERN ASIA ... Tropical storms bring heavy rain, flooding to sections of southeastern China and southern Japan. Dry weather favors harvest in the North China Plain.

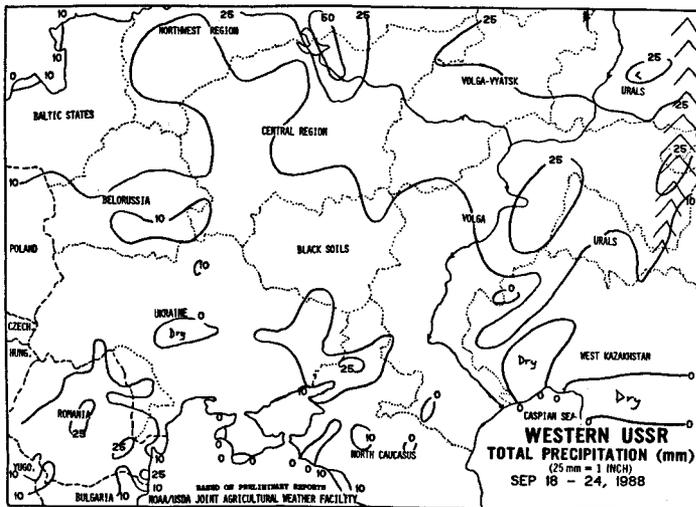
SOUTHEAST ASIA ... Heavy showers in Thailand cause flooding. Tropical storm activity boosts rainfall in the Philippines.

SOUTH AMERICA ... Widespread, heavy rain soaks Argentina and Rio Grande do Sul, Brazil. Hot, dry weather persists in Brazil's northern soybean, coffee, and citrus areas.

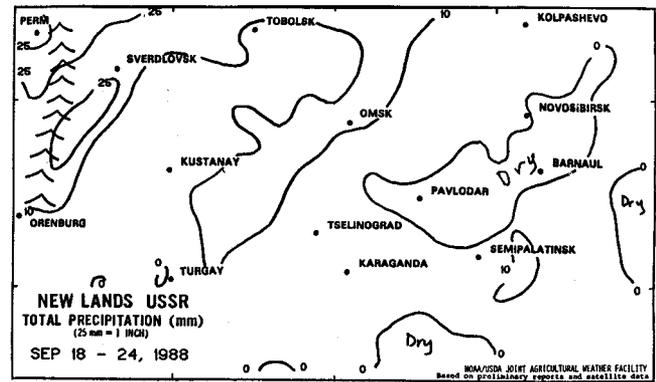
AUSTRALIA ... Rain favors winter grains in southwestern and southeastern growing areas.

MEXICO ... Mostly dry weather favors cotton harvesting in the north-central region. Showers benefit early wheat planting in the northwest. Drier weather eases the flooding problem caused by last week's hurricane.

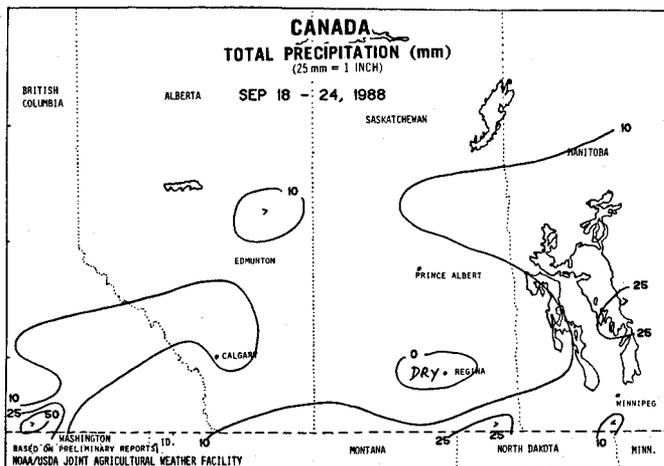
CANADA ... Rain in some southern and western winter wheat areas improves planting conditions.



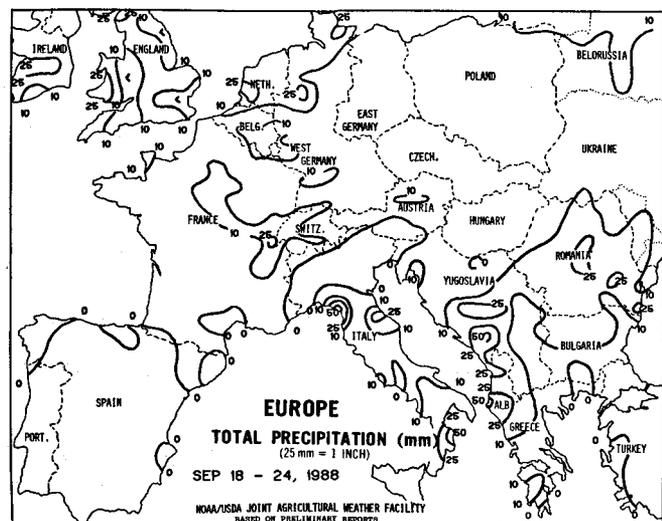
USSR ... In Western USSR, light to moderate showers (10-34mm) over winter grain areas in the Central Region, the Black Soils Region, the Volga Vyatsk, and the upper Volga continued to provide favorable moisture for plant establishment. However, the first widespread freeze of the autumn occurred on September 22 and 23 in these areas, with minimum temperatures ranging from 0 to -3 degrees C. Although temperatures were not low enough to harm winter grains, the cold weather slowed vegetative growth and prompted early plant hardening. In the Ukraine, North Caucasus, and the lower Volga, summer crop harvesting and winter grain planting continued to progress. Light, scattered showers in these areas caused only minor delays in fieldwork.



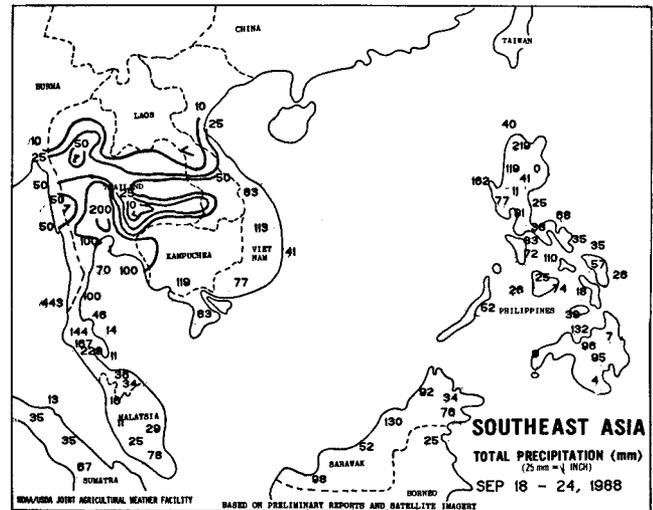
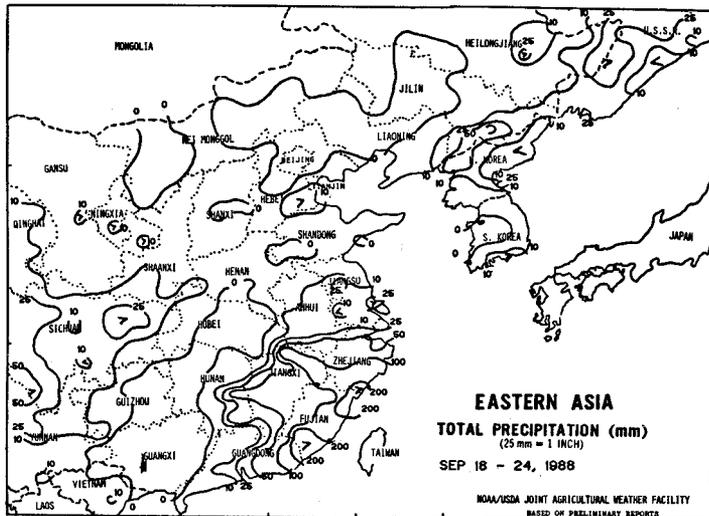
In crop areas east of the Ural mountains (New Lands), spring grain harvesting was virtually complete in Kazakhstan, with the bulk of harvesting in the Urals and West Siberia. Cool, damp weather in the northern Urals slowed harvesting. Unseasonably warm, dry weather in West Siberia, especially in eastern areas, allowed harvesting to progress without delay. Harvest of this year's spring grain crops has progressed more rapidly than last year when widespread wet weather caused significant harvest delays. In south-central USSR, cotton harvesting progressed rapidly, helped by unseasonably warm, dry weather.



CANADA ... Light rain (1-4mm) covered most Prairie crop regions with heavier amounts (10-39mm) across southernmost Saskatchewan, Manitoba, and parts of central Alberta. The rain improved moisture conditions for winter wheat planting. Harvest of late planted spring crops should be complete or nearing completion in northernmost crop regions.

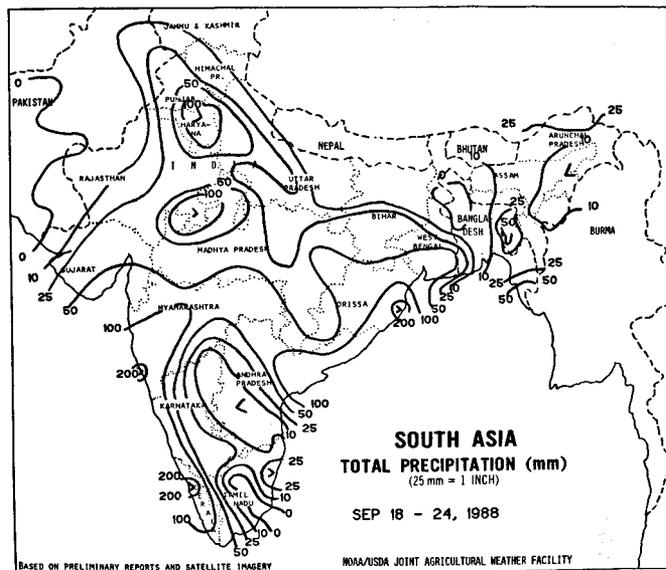


EUROPE ... Beneficial rain (5-25mm) continued over southeastern Europe, extending from coastal Italy eastward to the Black Sea. The rain improved conditions for germination and establishment of winter grains, especially in Bulgaria, where dryness had persisted since mid summer. In contrast, early planting delays in southwestern Europe continued due to the delay of seasonal rains, which normally begin by early or mid September. The dryness, however, did favor progress in corn harvesting across Spain, southwestern France, and northern Italy. Mostly dry weather favored late winter grains harvest and early planting in the northwest, although late-week rain (5-25mm) caused delays. In the northeast, scattered light rain (less than 10mm) favored establishing winter grains. Mean temperatures were normal to below normal across all of the continent except for the northeast, where they were slightly above normal.

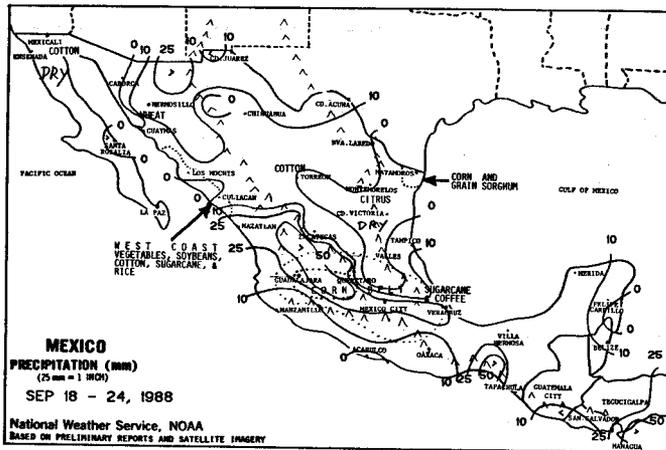


EASTERN ASIA ... Three separate tropical storm systems affected China and Japan, beginning with Tropical Storm Kit, which moved onshore in eastern Guangdong late Wednesday. High winds associated with the storm likely caused localized crop damage in eastern Guangdong and southern Fujian. On Friday, remnants of Tropical Storm Mamie moved onshore in western Guangdong. The combined residual moisture from both storms caused heavy rain (50-100mm) from Guangdong northeastward to Zhejiang. Torrential rain (100-200mm, with scattered rainfall greater than 200mm) likely caused flooding in sections of western Guangdong, Fujian, and southern Zhejiang. The rain ended earlier dryness in coastal Fujian but delayed intermediate rice harvest in the lower Yangtze Valley. On Saturday, remnants of Tropical Storm Lee brought heavy rain (50-100mm, with isolated amounts greater than 100mm) to southern Japan, delaying early rice harvest. In contrast, mostly dry weather covered the North China Plain, favoring harvest of corn, soybeans, and cotton and allowing progress in fall planting of winter grains.

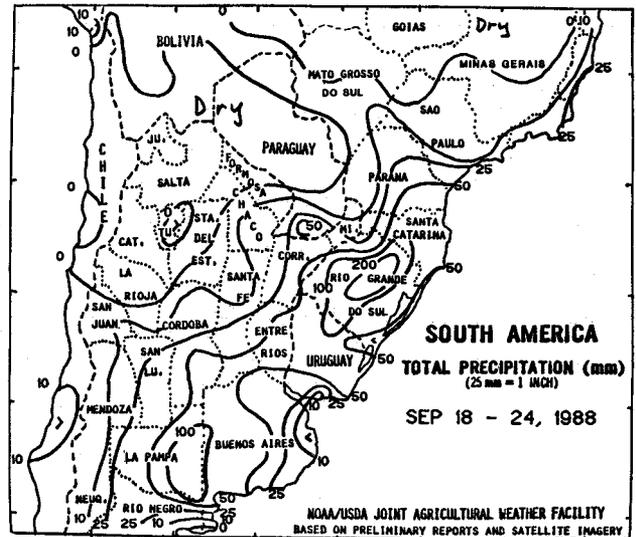
SOUTHEAST ASIA ... Heavy rain (100-255mm) fell over a large area from western to south-central Thailand, maintaining ample irrigation reserves for immature rice but causing some flooding. Moderate rain (25-91mm) continued in parts of eastern Thailand, but drier weather returned to the southern Khorat Plateau following last week's beneficial rainfall. Light rain (less than 25mm) continued over northeastern Thailand as well as northern Vietnam and much of Laos. Moderate to heavy showers (50-100mm or more) continued in southern Vietnam and spread into western Kampuchea. Inundating rain (100-443mm) covered a large portion of peninsular Thailand, already too wet from recent weeks of heavy rain. In the Philippines, heavy tropical showers (100-219mm) caused by the passages of Tropical Storms Kit and Lee likely caused flooding in western Luzon. Rainfall generally increased from the previous week elsewhere over the islands with heavy rain (95-132mm) continuing over central Mindanao.



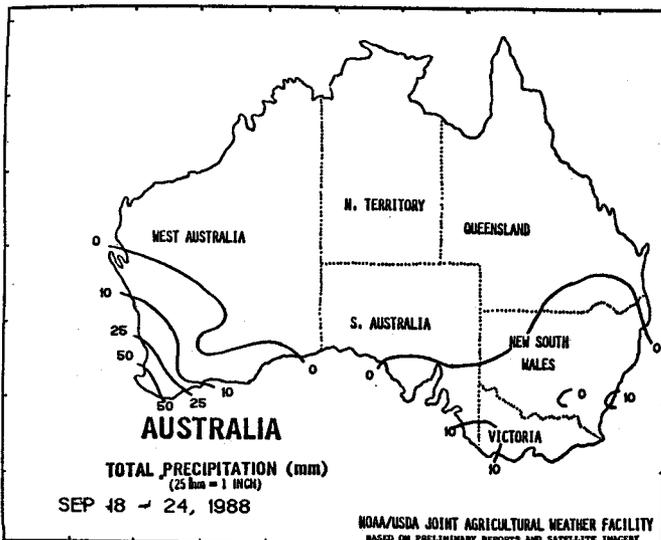
SOUTH ASIA ... Beneficial showers (25-100mm or more) covered reproductive to filling crops over central and southern India, including crop regions in northern Madhya Pradesh which had been trending dry since early September. Rainfall exceeded 100mm in coastal rice regions in the southeast from central Andhra Pradesh to northeastern Orissa, likely causing some flooding. Heavy rain (50-172mm) caused flooding in northern India from eastern Punjab to western Uttar Pradesh. Elsewhere in the north, moderate rain (25-50mm or more) fell over most crop regions from northern Pakistan to Bihar, bringing some relief to heat-stressed crops and maintaining high irrigation levels. Winter wheat planting usually begins in October across the north. Moderate rain (25-74mm) persisted locally over southern Bangladesh, but drier weather from central Bangladesh eastward helped floodwaters subside.



MEXICO ... Dry weather in the northeast eased the flooding problem caused by the previous week's torrential rain. Very light showers (less than 5mm) caused minimal, if any, interference to cotton harvesting in the north-central region. Beneficial rain (17-45mm or more) favored early wheat planting in the northwest. Mostly light rain fell along the west coast farming region where early summer crops are reaching the late filling stages. Heavier showers (10-52mm) benefited immature crops in southern fringes of the west coast crop area. Substantial rain (20-75mm) fell over the western two-thirds of the Southern Plateau corn belt, slowing early crop harvesting while benefiting immature late plantings. Dry weather prevailed over northeastern portions of the Plateau corn belt. Scattered tropical showers fell over the south. Drier weather in the Yucatan was welcomed after Hurricane Gilbert.



SOUTH AMERICA ... Widespread, beneficial rain fell over Argentina, beginning midweek in southwestern wheat areas and spreading throughout the major growing areas during the next few days. Weekly rainfall averaged 50-94mm in southern Cordoba, southern Santa Fe, and western Buenos Aires, providing much needed moisture for wheat growth and soaking topsoils for summer crop planting. In eastern La Pampa, heavier rain (115-170mm) likely caused flooding. In northern cotton areas, showers (10-20mm) favored early planting. In south-central Brazil, inundating rain (100-206mm) soaked Rio Grande do Sul's wheat again, providing ample crop moisture but possibly causing lodging and fungal disease problems. Heavy showers (60-100mm) fell in eastern Santa Catarina and eastern Parana. Hot, dry weather persisted across Brazil's northern soybean, coffee, and citrus areas.



AUSTRALIA ... Moderate to heavy rain (15-35mm) fell over winter grain areas of Western Australia, keeping soil moisture at mostly favorable levels for crops which are nearing sensitive reproductive stages. Scattered light rain (less than 10mm) favored winter grains in crop areas of New South Wales, Victoria, and southeastern South Australia. Coastal eastern Queensland remained dry, benefiting sugarcane harvest. Growing areas in the remainder of South Australia and Queensland were also dry. Winter grains in southeastern Australia were favored by above-normal temperatures which increased rates of growth and development. Temperatures over other crop areas ranged from near normal in Western Australia to slightly below normal in Queensland.

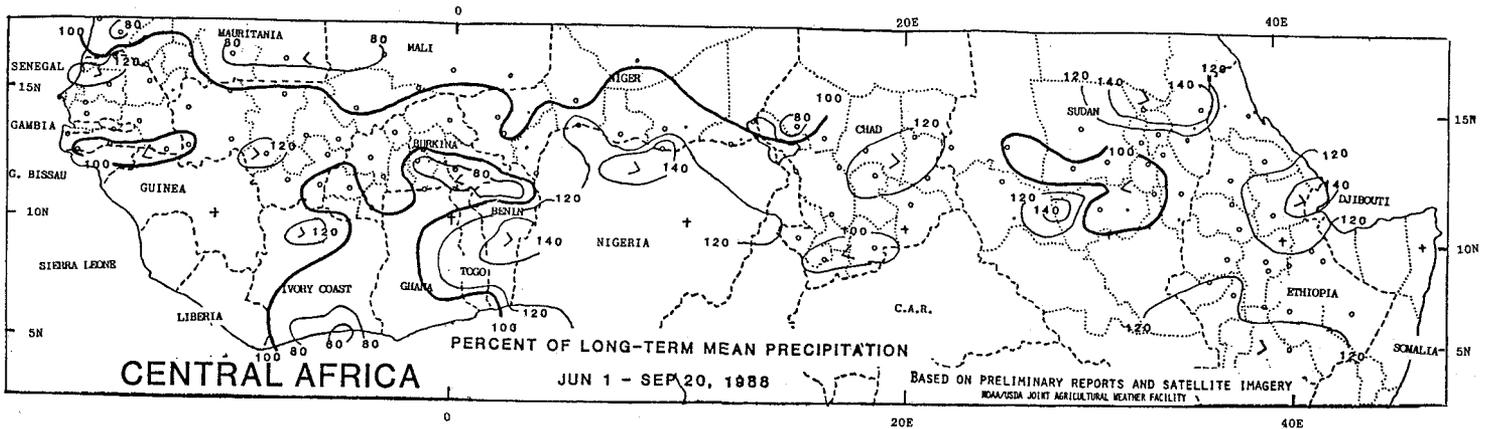
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African Agricultural Weather Summary

As one of the wettest seasons in the past 20 years slowly comes to an end, prospects for the fall harvests remain favorable across central Africa.

Continuing ample rains in Mauritania and Senegal through late September have offset dry weather early in the season, so crop prospects are at least average in both countries. Flooding damaged crops or property in many countries this past summer, including Senegal, Mali, Burkina Faso, Nigeria, Niger, Chad, Sudan, and Ethiopia. Nevertheless, the

abundant moisture has benefited pastures and rain-fed crops. Even in Sudan, which reportedly endured the worst flooding of the century during August, prospects for non-irrigated grains are bright, as the flooding mostly affected cotton and groundnuts.

The map shows season-to-date rainfall has been near or above the long-term mean throughout the region. Many locations recorded the wettest summer (June-August) since 1978. Dori, in northern Burkina Faso, had the wettest summer since 1964.

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