

WEEKLY WEATHER AND CROP BULLETIN

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

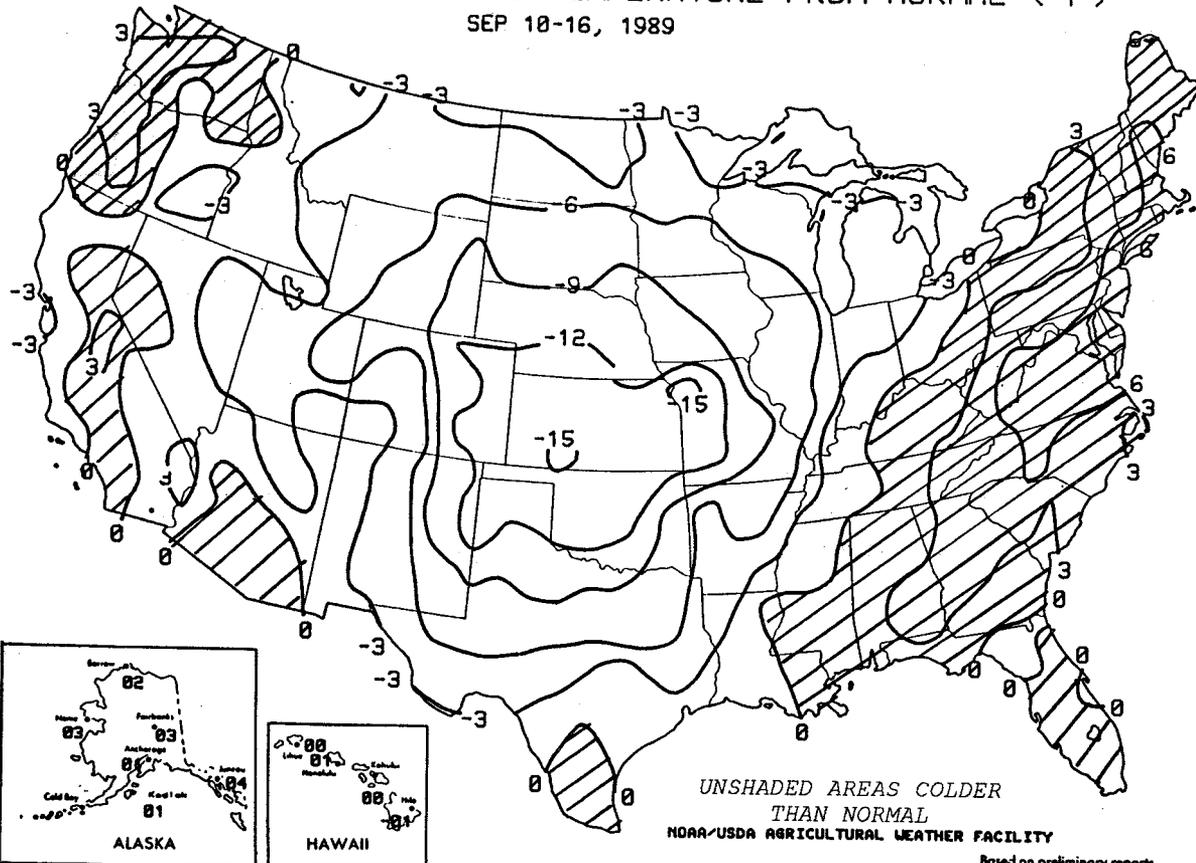
U.S. DEPARTMENT OF AGRICULTURE
National Agricultural Statistics Service and World Agricultural Outlook Board

Volume 76, No. 37

Washington, D.C.

Sept. 19, 1989

DEPARTURE OF AVERAGE TEMPERATURE FROM NORMAL (°F)
SEP 10-16, 1989

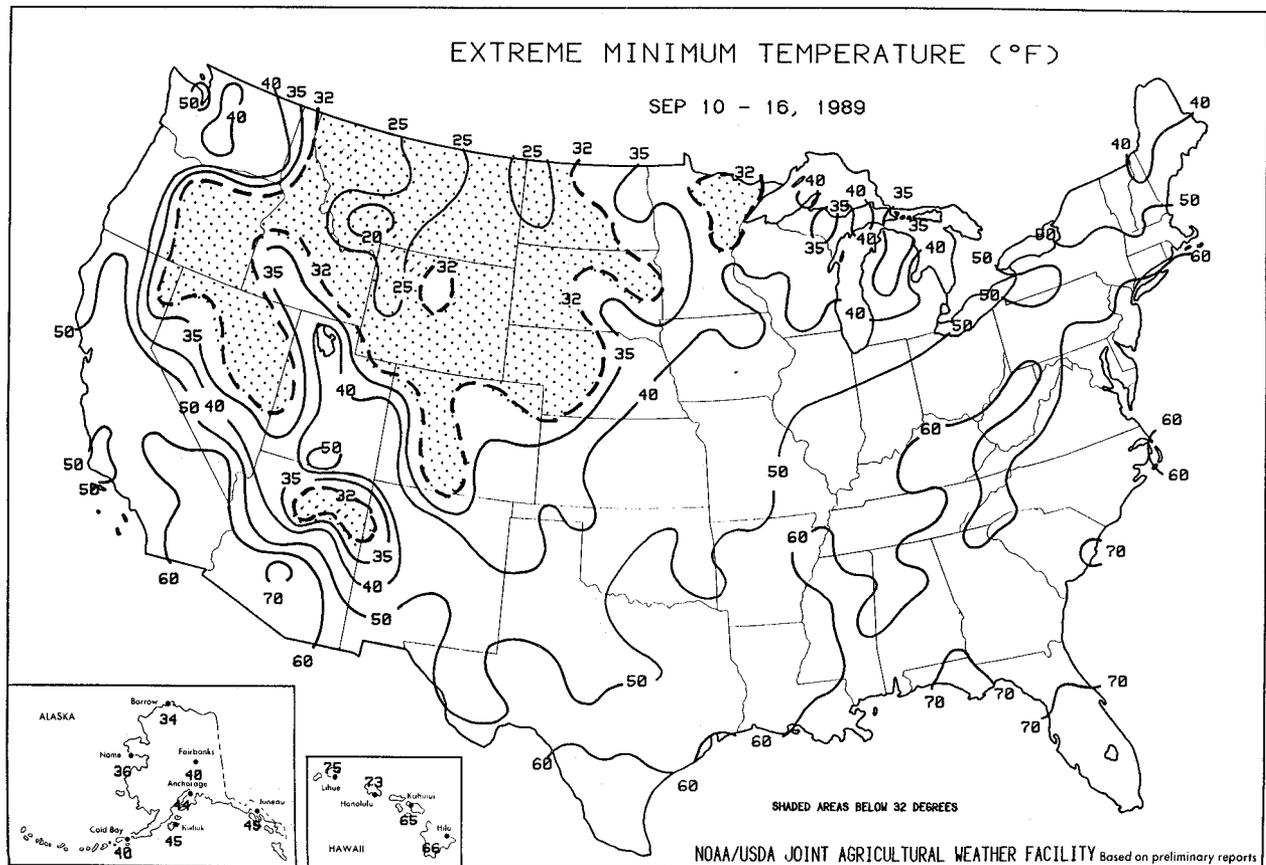
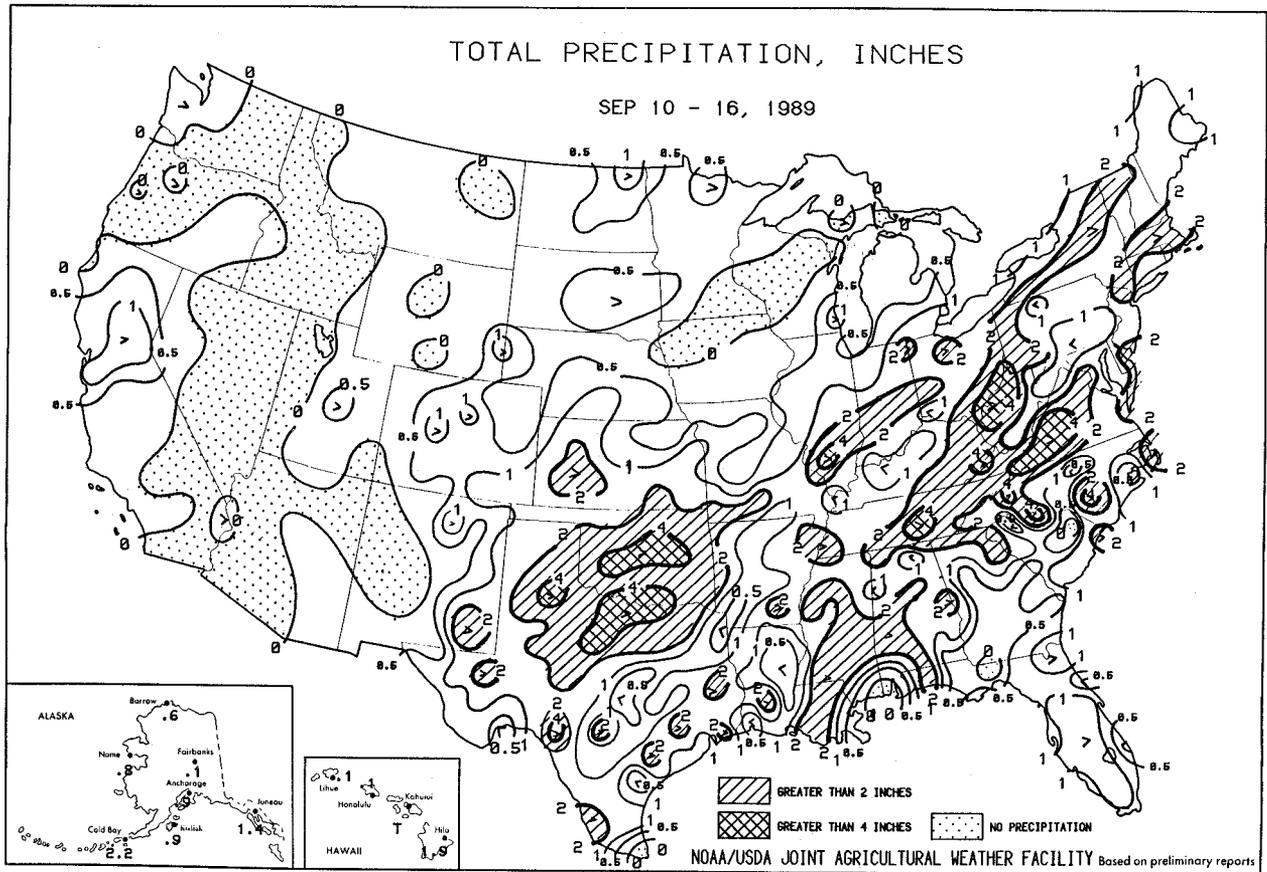


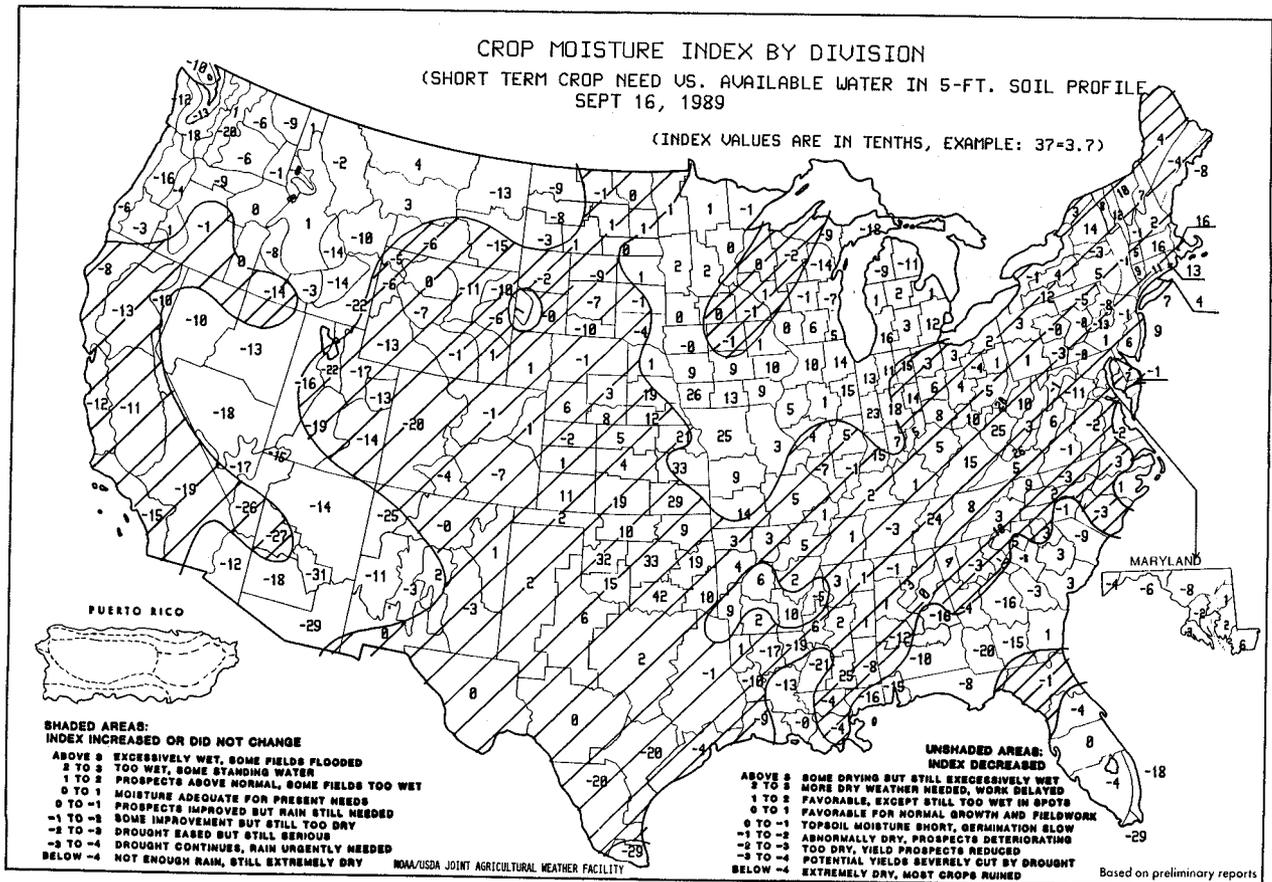
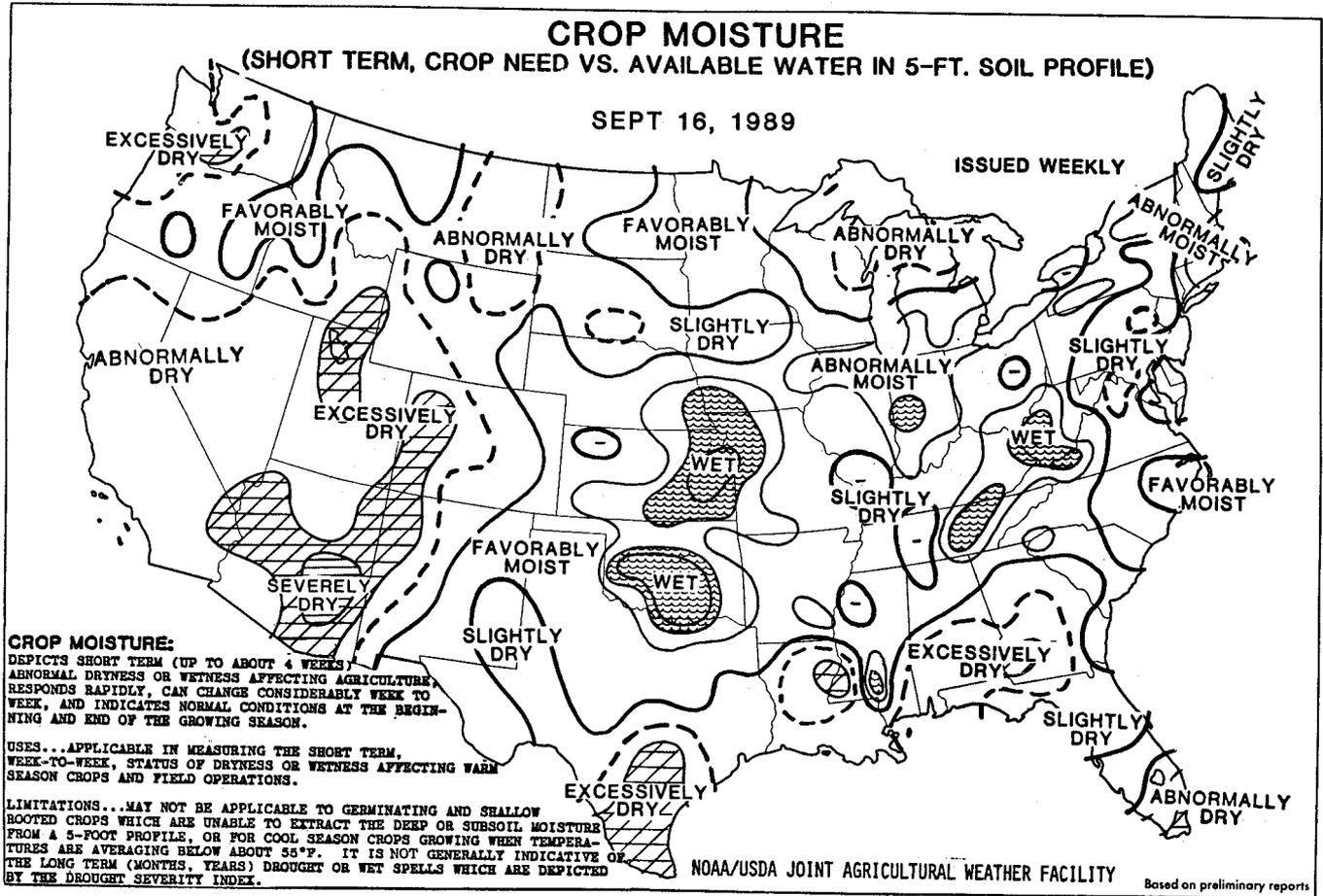
HIGHLIGHTS

A series of slow moving frontal systems pushed across the eastern two-thirds of the Nation. Numerous thunderstorms developed in the warm, humid air ahead of the fronts and soaked much of the Nation from the **Rio Grande Valley** to the **Atlantic coast**. Cold air spilled into the **Central United States** as early season snow fell over the **Rockies** and temperatures dropped below freezing in the **northern and central Plains** on Monday and Tuesday. Record-low temperatures for the date were reported across the **central and southern Plains** throughout the week. Temperatures remained abnormally high along the **eastern seaboard**. Dry weather prevailed over the **western Corn Belt**, following the heavy rains from the previous week. Moisture from the Pacific Hurricane Octave spread unseasonable rain across **California**, while Hurricane Hugo in the **Caribbean** passed over **Guadeloupe Island** with winds

of 150 miles per hour and roared toward **Puerto Rico** at week's end.

Contents	Page
Highlights & Temperature Departure Map	1
Total Precipitation & Extreme Minimum Temperature Map	2
Crop Moisture Maps	3
National Weather Data for Selected Cities	4
National Agricultural Summary	7
Crop Production Highlights	8
Crop Progress and Condition Tables	9
State Summaries of Weather and Agriculture ...	11
International Weather and Crop Summary & August Temperature and Precipitation Maps ..	17
Subscription and Mailing Permit Information ..	28





National Weather Data for Selected Cities

Weather Data for the Week Ending September 16, 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	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	85	67	90	58	76	1	1.2	.2	.9	2.0	84	47.4	115	98	56	1	0	4	1
MOBILE	91	71	94	64	81	2	T	-1.6	T	.4	11	40.4	81	97	48	5	0	0	0
AK ANCHORAGE	92	70	96	65	81	4	1.4	.2	1.4	2.3	89	52.9	144	98	47	5	0	4	1
BARROW	56	44	64	34	50	1	.4	-1.2	.2	1.5	115	19.2	194	98	67	0	0	1	0
FAIRBANKS	37	32	41	30	35	2	.1	-1.1	.1	.7	191	6.8	205	98	81	0	4	3	0
JUNEAU	57	41	72	26	49	3	1.3	0	.2	.3	49	7.1	91	95	49	0	0	0	0
KODIAK	61	47	71	38	54	4	.6	-1.8	.3	2.6	80	23.4	72	98	61	0	0	4	0
NOME	59	43	63	38	51	1	.5	-1.9	.4	2.0	61	32.2	82	97	68	0	0	3	0
AZ PHOENIX	52	41	55	33	47	3	.9	.3	.7	1.7	119	16.9	157	95	71	0	0	4	1
PRESCOTT	103	76	107	73	89	4	0	-1.1	0	.4	97	3.9	83	31	11	7	0	0	0
TUCSON	84	49	86	42	67	1	0	-1.4	0	T	0	8.1	58	45	10	0	0	0	0
YUMA	99	68	102	64	84	2	T	-1.3	T	T	3	4.4	54	45	13	7	0	0	0
AR FORT SMITH	102	74	104	66	88	0	0	-1.1	T	T	0	6.8	438	67	18	7	0	0	0
LITTLE ROCK	77	61	84	53	69	-6	2.1	1.3	1.1	3.4	201	45.2	158	97	68	0	0	3	2
CA BAKERSFIELD	74	63	80	57	69	-7	.7	-1.4	.3	3.3	145	42.8	120	95	77	0	0	5	0
EUREKA	95	63	105	58	79	1	T	0	T	T	17	2.3	59	63	25	5	0	1	0
FRESNO	60	51	66	48	56	-1	T	-2.2	T	T	0	19.3	84	93	77	0	0	0	0
LOS ANGELES	94	61	102	58	78	3	T	0	T	T	67	4.9	70	77	22	4	0	1	0
REDDING	76	63	83	60	70	0	T	0	T	T	33	3.2	38	91	58	0	0	1	0
SACRAMENTO	93	56	99	51	75	-3	.9	.7	.9	.9	186	20.8	81	-74	21	6	0	1	1
SAN DIEGO	89	55	99	52	72	0	1.8	1.7	1.8	1.8	10.9	10.9	101	90	29	4	0	1	1
SAN FRANCISCO	77	65	90	62	71	1	T	0	T	T	0	2.0	30	87	55	1	0	0	0
CO DENVER	66	54	72	51	60	-4	.9	.9	.9	.9	8.3	66	95	66	0	0	1	1	0
GRAND JUNCTION	85	41	83	33	53	-11	.9	.6	.4	1.4	209	13.6	111	89	44	0	0	3	0
PUEBLO	76	49	82	43	62	-6	T	-2.2	T	.2	55	5.2	96	51	18	0	0	1	0
CT BRIDGEPORT	68	42	87	36	55	-11	.8	.6	.3	.9	171	6.6	74	93	41	0	0	3	0
HARTFORD	78	66	88	57	72	5	1.3	.5	1.3	1.3	72	37.5	129	85	64	0	0	1	1
DC WASHINGTON	79	60	93	55	70	5	1.9	1.0	1.5	1.9	91	39.9	130	94	55	1	0	3	1
FL APALACHICOLA	85	71	96	67	78	6	3.5	2.8	1.8	3.5	192	37.2	130	96	60	2	0	2	2
DAYTONA BEACH	88	73	89	72	81	1	1.1	-1.0	.9	3.4	68	37.7	90	92	56	0	0	4	1
JACKSONVILLE	89	71	92	69	80	0	T	-1.6	T	1.0	28	24.2	67	95	57	3	0	1	0
KEY WEST	90	80	92	78	85	2	1.6	.1	.8	3.6	97	35.4	87	98	55	3	0	4	2
MIAMI	90	77	92	76	84	2	.4	-1.1	.2	1.0	31	18.1	69	84	62	5	0	3	0
ORLANDO	91	74	93	73	82	1	.9	-1.0	.8	3.4	79	35.9	85	86	57	3	0	3	1
TALLAHASSEE	91	68	93	65	79	0	1.2	-1.4	.9	6.2	171	33.9	85	95	52	6	0	2	1
TAMPA	92	74	94	73	83	2	T	-1.5	T	3.9	105	32.7	87	92	48	6	0	0	0
WEST PALM BEACH	90	76	91	75	83	1	.3	-1.8	.1	1.2	26	26.9	65	89	56	5	0	3	0
GA ATLANTA	87	70	91	64	79	5	.2	-1.6	.2	.4	21	41.8	114	92	50	2	0	1	0
AUGUSTA	91	67	92	66	79	3	.1	-1.7	.1	.1	7	37.5	110	99	51	6	0	1	0
MACON	91	68	93	62	80	3	T	-1.8	T	T	2	34.9	100	96	41	6	0	1	0
SAVANNAH	90	70	93	68	80	3	.2	-1.1	.1	1.4	45	28.9	71	95	51	3	0	2	0
HI HILO	82	67	85	66	75	-1	1.9	.4	1.2	5.9	165	42.1	163	95	63	0	0	7	1
HONOLULU	80	74	91	70	82	1	T	-1.1	T	.1	58	15.4	107	79	44	4	0	0	0
KAHULUI	87	70	90	65	79	0	T	-1.1	T	T	23	28.7	233	83	48	1	0	0	0
LIHUE	84	74	85	70	79	0	.1	-1.4	0	.6	61	41.7	154	77	62	0	0	2	0
ID BOISE	80	45	89	36	62	-2	0	-1.1	0	T	0	7.3	93	53	16	0	0	0	0
LEWISTON	82	50	90	46	66	1	0	-1.2	0	.2	38	11.5	129	56	21	1	0	0	0
POCATELLO	77	35	89	27	56	-4	0	-1.1	0	0	0	7.1	94	64	15	0	3	0	0
IL CHICAGO	68	51	76	47	60	-6	.5	-1.5	.5	3.9	169	25.3	98	94	55	0	0	2	0
MOLINE	69	49	75	43	59	-7	.5	-1.4	.4	5.3	259	29.2	102	96	51	0	0	2	0
PEORIA	66	54	75	48	60	-7	.6	-1.3	.4	2.2	112	18.5	69	99	72	0	0	3	0
QUINCY	67	53	77	47	60	-8	.4	-1.6	.3	2.8	124	15.2	53	94	60	0	0	3	0
ROCKFORD	69	49	75	43	59	-6	.5	-1.4	.5	2.7	135	26.7	96	95	53	0	0	1	0
SPRINGFIELD	68	55	76	51	62	-7	.9	.1	.4	5.5	314	25.6	99	99	71	0	0	3	0
IN EVANSVILLE	77	62	86	56	69	-1	1.0	.3	.5	2.1	141	42.0	135	99	70	0	0	3	0
FORT WAYNE	69	54	77	48	61	-4	1.3	.7	.8	4.1	291	30.0	116	96	65	0	0	4	1
INDIANAPOLIS	71	59	80	53	65	-3	3.0	2.4	2.9	7.8	512	42.7	146	97	66	0	0	3	1
SOUTH BEND	67	53	76	47	60	-5	.7	0	.5	3.7	209	29.2	106	94	59	0	0	2	1
IA DES MOINES	66	47	73	44	57	-9	T	-1.7	T	5.4	303	26.1	106	96	49	0	0	1	0
STIOUX CITY	66	43	79	37	55	-10	T	-1.6	T	4.5	312	18.6	89	88	41	0	0	0	0
WATERLOO	67	43	73	38	55	-8	T	-1.8	T	3.0	159	15.7	60	99	47	0	0	1	0
KS CONCORDIA	65	48	80	43	57	-12	.5	-1.3	.4	4.2	246	23.2	104	96	54	0	0	3	0
DODGE CITY	65	45	84	41	55	-15	2.1	1.7	2.1	2.2	205	19.9	117	98	51	0	0	2	1
GOODLAND	65	41	88	34	53	-12	.9	.6	.6	1.0	122	17.4	127	92	49	0	0	3	1
TOPEKA	64	46	76	42	55	-14	.5	-1.4	.2	8.7	458	34.3	132	98	65	0	0	3	0
WICHITA	65	50	78	45	57	-14	1.7	.9	1.4	7.4	399	33.8	153	95	64	0	0	3	1
KY BOWLING GREEN	81	65	89	60	73	2	.7	-1.1	.3	1.0	56	49.4	136	95	67	0	0	4	0
LEXINGTON	78	63	86	61	70	1	1.0	.2	.5	1.6	87	42.2	121	96	67	0	0	4	1
LOUISVILLE	79	64	88	60	71	1	.8	0	.4	1.9	102	43.7	135	98	66	0	0	4	0
LA ALEXANDRIA	85	68	92	56	76	-2	.1	-1.7	.1	.2	9	52.3	134	94	56	2	0	1	0
BATON ROUGE	89	70	94	60	79	1	1.7	.6	.9	1.8	71	62.6	148	99	57	4	0	3	2
LAKE CHARLES	87	69	93	58	78	-1	.1	-1.3	.1	.3	10	53.6	139	95	56	3	0	2	0
NEW ORLEANS	88	71	92	67	79	0	1.0	-1.4	1.0	2.6	78	39.0	86	97	60	2	0	2	1

Based on 1951-80 normals

Weather Data for the Week Ending September 16, 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		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
SHREVEPORT	82	65	90	54	73	-5	.9	.1	.8	1.1	62	53.8	168	98	62	1	0	0	0
ME CARIBOU	69	52	86	42	60	6	1.3	.5	.6	2.9	150	24.6	97	96	61	0	0	2	1
PORTLAND	76	55	88	47	66	6	1.8	1.1	1.1	2.4	143	28.5	99	99	58	0	0	4	1
MD BALTIMORE	82	69	93	67	76	6	1.1	.3	1.0	1.1	56	40.3	132	98	64	1	0	3	2
SALISBURY	87	69	93	66	78	8	1.7	.8	.9	1.7	75	37.8	114	97	60	2	0	4	1
MA BOSTON	76	64	86	54	70	4	2.1	1.3	1.4	2.1	114	29.2	97	95	62	0	0	3	2
CHATHAM	73	61	80	58	67	5	1.7	.8	1.0	1.7	83	32.5	102	96	73	0	0	3	2
MI ALPENA	66	42	72	34	54	-4	1.1	-.6	.1	1.8	104	15.8	74	98	53	0	0	2	0
DETROIT	66	54	76	46	60	-4	1.1	.6	.6	3.0	237	23.7	104	99	68	0	0	4	1
FLINT	65	50	74	40	58	-5	1.4	-.4	-.2	4.3	322	25.7	119	98	60	0	0	2	0
GRAND RAPIDS	65	49	74	38	57	-6	1.3	-.5	.3	4.9	278	26.6	111	98	58	0	0	1	0
HOUGHTON LAKE	65	43	72	32	54	-4	1.3	-.4	.3	3.9	278	26.6	111	98	58	0	0	2	0
LANSING	65	50	75	39	57	-5	1.6	-.1	.5	3.5	61	15.9	78	96	51	0	1	1	0
MARQUETTE	63	39	71	34	51	-4	1.2	-.7	.2	2.4	207	24.9	114	96	62	0	0	3	0
MUSKOGON	68	50	74	39	59	-4	1.2	-.7	.2	2.4	44	19.9	74	95	52	0	0	1	0
SAULT ST. MARIE	68	40	74	36	54	-1	2.1	-.5	.2	2.4	151	19.5	90	93	55	0	0	1	0
MN ALEXANDRIA	66	44	75	38	55	-4	1.9	-.9	T	.4	20	16.8	73	99	45	0	0	0	0
DULUTH	64	40	74	32	52	-3	1.3	-.3	.3	1.9	146	17.2	87	94	45	0	0	2	0
INT'L FALLS	64	40	75	35	52	-2	1.5	-.3	.5	1.6	88	20.8	91	92	45	0	1	1	0
MINNEAPOLIS	67	44	77	41	55	-6	1.2	-.3	.5	1.2	66	17.6	93	94	47	0	0	2	0
ROCHESTER	64	40	72	37	52	-8	T	-.6	T	1.1	76	20.8	98	92	43	0	0	0	0
MS GREENWOOD	83	68	91	60	76	-1	1.6	-.8	.8	1.7	94	53.3	138	95	49	0	0	0	0
JACKSON	88	68	93	60	78	0	2.1	1.2	1.3	2.3	114	38.2	99	100	58	4	0	3	2
MERIDIAN	89	67	94	57	78	1	2.5	1.6	2.1	2.5	127	50.3	126	100	53	5	0	4	1
MO CAPE GIRARDEAU	71	61	78	57	66	-	.9	0	.9	2.3	110	44.9	136	98	75	0	0	3	1
COLUMBIA	66	54	72	49	60	-10	1.0	-.6	.2	1.5	73	32.0	116	95	68	0	0	4	0
KANSAS CITY	65	47	75	44	56	-8	1.0	-.1	.7	8.9	386	34.2	124	99	62	0	0	2	1
SAINT LOUIS	68	57	77	53	63	-8	.8	-.2	.6	1.7	117	26.4	103	95	69	0	0	4	1
SPRINGFIELD	65	53	73	43	59	-12	.8	-.2	.5	2.4	108	29.4	102	99	75	0	0	5	1
MT BILLINGS	71	41	87	28	56	-5	.2	-.1	.2	.4	65	11.2	97	64	23	0	2	1	0
GLASGOW	72	39	90	26	55	-3	T	-.2	T	.1	15	8.8	94	76	22	1	2	0	0
GREAT FALLS	70	40	83	29	55	-3	.3	0	.3	.3	57	18.6	151	72	23	0	2	1	0
HAVRE	70	37	83	23	54	-5	0	-.2	0	T	0	9.1	94	63	27	0	3	0	0
HELENA	72	35	87	28	53	-3	.1	-.1	.1	.2	46	10.0	108	77	18	0	2	1	0
KALISPELL	70	33	80	29	52	-3	T	-.3	T	.6	92	14.8	129	94	28	0	2	0	0
MILES CITY	73	39	89	28	56	-5	.1	-.2	.1	.1	10	12.5	108	69	22	0	3	1	0
MISSOULA	74	35	84	31	55	-2	T	-.2	T	.2	39	11.0	113	82	22	0	2	1	0
NE GRAND ISLAND	65	43	82	37	54	-12	.8	-.2	.8	6.5	454	20.5	105	94	51	0	0	2	1
LINCOLN	66	45	79	41	56	-11	.5	-.2	.5	8.2	484	22.3	100	95	54	0	0	1	1
NORFOLK	67	42	83	34	54	-10	T	-.5	T	3.6	303	15.4	77	94	45	0	0	1	0
NORTH FLATTE	66	36	89	30	51	-12	.7	.3	.5	1.1	119	13.7	82	99	44	0	2	3	1
OMAHA	65	47	77	43	56	-10	.2	-.6	.2	6.1	305	20.6	84	88	57	0	0	1	0
SCOTTSLUFF	66	36	88	29	51	-11	.6	.4	.6	1.4	242	8.3	68	81	35	0	1	1	0
VALENTINE	70	36	90	29	53	-9	.4	0	.4	.7	79	10.1	68	81	29	2	2	1	1
NV ELY	74	34	82	28	54	-4	T	-.2	T	T	0	5.8	86	55	14	0	2	0	0
LAS VEGAS	93	65	97	61	79	-2	0	-.1	0	0	0	2.2	75	23	10	6	0	0	0
RENO	83	44	88	38	64	2	.3	-.2	.3	.3	215	5.5	109	70	16	0	0	1	0
WINNEMUCA	83	36	89	32	60	-1	0	-.1	0	T	0	3.2	59	42	9	0	1	0	0
NH CONCORD	78	56	92	50	67	7	1.6	.8	1.2	1.7	100	26.6	106	98	53	1	0	3	1
NJ ATLANTIC CITY	85	66	95	63	75	7	1.6	1.0	.8	1.6	97	37.2	123	98	62	2	0	3	2
NM ALBUQUERQUE	79	52	83	46	66	-5	0	-.2	0	T	0	3.4	59	66	19	0	0	0	0
CLOVIS	68	47	81	40	57	-13	1.0	.5	1.0	1.4	135	14.0	105	96	57	0	0	1	1
ROSWELL	76	54	87	47	65	-7	2.0	1.1	1.1	2.0	204	6.1	76	87	43	0	0	4	2
NY ALBANY	76	57	92	51	67	5	1.1	.4	.5	1.2	71	29.9	119	95	58	1	0	4	1
BINGHAMTON	69	54	86	50	62	1	1.8	1.0	.7	2.0	113	29.5	113	99	70	0	0	4	2
BUFFALO	68	54	76	50	61	-2	1.5	.7	.8	2.8	147	30.0	116	96	64	0	0	5	1
NEW YORK	82	69	94	62	76	6	1.9	1.1	1.5	1.9	99	42.4	139	89	54	2	0	2	1
ROCHESTER	70	54	79	51	62	-1	1.4	.7	.8	2.1	143	25.4	114	96	62	0	0	4	1
SYRACUSE	72	54	87	49	63	0	2.6	1.8	1.9	2.8	158	24.8	90	98	61	0	0	4	1
NC ASHEVILLE	81	63	85	56	72	4	1.0	.1	.6	1.8	85	43.6	133	100	61	0	0	3	1
CHARLOTTE	89	69	91	66	79	6	1.4	.6	.6	1.5	77	33.2	103	97	49	4	0	3	2
GREENSBORO	85	68	91	65	77	6	1.7	.9	1.5	1.8	92	34.9	111	99	58	1	0	2	1
HATTERAS	82	68	85	59	75	0	3.5	2.1	1.2	7.8	246	58.4	150	99	74	0	0	4	3
NEW BERN	88	71	91	66	79	4	.4	-1.0	.3	2.9	88	45.4	112	97	59	1	0	2	0
RALEIGH	88	70	93	68	79	7	.4	-.4	.3	.5	24	39.9	127	99	57	2	0	4	0
WILMINGTON	87	71	89	68	79	4	1.0	-.4	.9	1.3	40	44.9	108	99	58	0	0	3	1
ND BISMARCK	70	37	89	29	54	-4	.5	.2	.5	.8	104	9.8	77	89	31	0	2	2	1
FARGO	67	42	79	37	55	-4	.2	-.2	.2	1.4	126	16.7	105	90	44	0	2	2	1
GRAND FORKS	68	41	83	34	55	-2	T	-.5	T	.7	62	10.9	73	88	38	0	0	1	0
WILLISTON	72	35	87	24	54	-4	T	-.3	T	.5	67	8.9	80	92	24	0	3	1	0
OH AKRON-CANTON	72	58	78	54	65	0	1.5	.8	.9	2.1	124	31.0	115	98	69	0	0	3	2
CINCINNATI	74	63	82	59	68	0	.9	.2	.7	2.6	163	41.0	137	94	70	0	0	4	1
CLEVELAND	71	59	76	55	65	0	1.4	.7	.7	3.4	207	32.8	126	97	68	0	0	3	2
COLUMBUS	73	60	82	54	67	0	1.3	.7	1.3	1.9	117	36.6	128	95	67	0	0	2	1

Weather Data for the Week Ending September 16, 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	90 AND ABOVE	52 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE	
DAYTON	72	58	80	52	65	-3	2.7	2.2	2.5	5.5	407	42.1	160	100	74	0	0	2	1	
TOLEDO	68	54	78	48	61	-3	1.1	.5	.6	3.2	226	32.9	140	96	65	0	0	4	2	
YOUNGSTOWN	73	56	79	51	64	1	3.0	2.3	2.0	4.9	291	35.3	128	99	68	0	0	3	2	
OK OKLAHOMA CITY	69	53	78	49	61	-13	3.9	3.1	2.3	4.5	251	37.2	156	99	68	0	0	4	2	
TULSA	69	56	80	50	62	-12	2.8	1.7	1.8	3.3	146	26.5	92	96	71	0	0	3	2	
OR ASTORIA	77	49	89	47	63	4	.1	-6	.1	.1	6	35.4	89	94	40	0	0	1	0	
BURNS	78	34	84	28	56	-4	.1	0	.1	.1	52	8.1	125	60	15	0	0	1	0	
MEDFORD	90	48	95	44	69	3	0	-2	0	0	0	10.8	97	75	18	5	0	0	0	
PENDLETON	82	50	90	44	66	1	0	-1	0	0	0	10.0	130	48	14	1	0	0	0	
PORTLAND	85	50	91	48	67	4	T	T	T	.3	45	20.1	93	89	22	2	0	0	0	
SALEM	87	43	93	41	65	3	0	-3	0	T	6	17.3	75	83	17	3	0	0	0	
PA ALLENTOWN	80	64	92	59	72	6	.6	-3	.6	.6	28	32.2	101	98	61	1	0	1	1	
ERIE	71	58	77	54	64	1	1.9	1.0	1.2	2.1	98	30.4	111	95	66	0	0	4	2	
HARRISBURG	79	65	91	62	72	4	.5	-3	.5	.6	30	36.1	128	99	62	1	0	3	1	
PHILADELPHIA	85	69	94	63	77	7	2.1	1.3	2.0	2.1	110	39.4	131	91	55	2	0	2	1	
PITTSBURGH	77	61	82	58	69	3	2.5	1.9	1.2	3.1	202	34.9	126	96	65	0	0	3	3	
SCRANTON	73	59	89	56	66	2	1.3	.5	.8	1.3	72	27.0	108	97	60	0	0	3	1	
RI PROVIDENCE	80	62	91	53	71	7	2.0	1.2	1.3	2.0	105	38.8	125	99	61	1	0	3	2	
SC CHARLESTON	88	72	91	70	80	4	1.2	0	.5	5.1	176	36.5	89	97	56	1	0	4	0	
COLUMBIA	91	69	94	68	80	4	.3	-7	.3	1.5	61	38.8	100	97	48	5	0	1	0	
FLORENCE	90	70	92	67	80	4	T	-1.0	T	.9	40	36.3	105	97	53	5	0	0	0	
GREENVILLE	87	66	89	60	77	4	.4	-7	.3	1.1	44	34.6	90	98	52	0	0	2	0	
SD ABERDEEN	68	38	85	32	53	-7	.3	-1	.2	.3	33	15.1	101	97	38	0	1	2	0	
HURON	68	40	89	32	54	-8	.5	.2	.5	1.5	201	12.9	84	92	40	0	1	2	1	
RAPID CITY	70	39	89	29	55	-7	.4	.1	.4	1.6	278	9.4	67	76	27	0	1	1	0	
SIoux FALLS	65	40	81	33	53	-9	.1	-6	0	2.3	145	13.4	68	92	45	0	0	2	0	
TN CHATTANOOGA	84	69	88	61	77	3	2.4	1.3	1.2	2.7	114	52.3	136	98	63	0	0	4	2	
KNOXVILLE	85	67	89	61	76	3	3.8	3.1	3.0	4.2	263	42.1	121	100	61	0	0	3	2	
MEMPHIS	80	66	88	61	73	-2	3.2	2.4	1.8	3.9	191	48.7	127	97	66	0	0	3	3	
NASHVILLE	81	66	89	59	73	0	1.2	.4	.8	1.5	72	42.7	119	94	64	0	0	4	1	
TX ABILENE	79	58	85	49	69	-8	3.9	3.2	2.5	4.1	252	26.3	152	91	54	0	0	2	2	
AMARILLO	70	47	86	40	58	-12	1.8	1.4	.9	1.8	176	18.3	116	95	55	0	0	2	2	
AUSTIN	91	67	98	58	79	-1	.3	-6	.3	.3	15	22.3	102	93	41	4	0	1	0	
BEAUMONT	87	68	94	56	78	-2	.7	-6	.6	1.2	40	58.7	147	94	56	3	0	2	1	
BROWNSVILLE	92	73	97	65	83	1	T	-1.3	T	.3	12	13.3	80	92	48	5	0	0	0	
CORPUS CHRISTI	91	71	96	62	81	-1	.6	-1.0	.5	1.4	38	14.7	65	93	48	4	0	2	0	
DEL RIO	88	68	96	60	78	-3	1.2	.6	1.2	1.2	89	7.0	57	74	36	3	0	1	1	
EL PASO	87	58	93	52	73	-3	.2	-2	.2	.4	51	6.8	122	87	27	3	0	2	0	
FORT WORTH	80	61	87	54	71	-8	2.4	1.6	1.3	2.4	137	37.0	164	91	59	0	0	2	2	
GALVESTON	85	72	90	65	79	-2	.7	-8	.5	1.3	39	36.3	128	89	61	1	0	3	1	
HOUSTON	87	66	93	56	76	-3	1.0	-2	.9	2.7	97	52.9	161	98	54	4	0	2	1	
LUBBOCK	74	52	86	46	63	-9	3.2	2.7	2.4	3.6	330	14.6	105	92	54	0	0	4	2	
MIDLAND	80	57	89	50	69	-6	1.3	.8	.6	2.8	250	7.8	77	93	46	0	0	4	1	
SAN ANGELO	82	58	90	50	70	-7	2.1	1.4	1.3	2.8	177	16.5	128	97	50	1	0	2	2	
SAN ANTONIO	91	67	97	57	79	-1	.7	-2	.5	1.5	78	14.0	68	88	38	4	0	3	1	
VICTORIA	89	69	97	59	79	-2	2.0	.5	1.6	2.4	73	18.9	72	93	46	4	0	2	1	
WACO	84	61	93	49	73	-7	.3	-5	.2	.3	17	26.7	121	95	53	1	0	2	0	
WICHITA FALLS	77	57	86	51	67	-10	5.3	4.5	2.3	5.3	303	34.1	173	96	59	0	0	3	3	
UT CEDAR CITY	78	43	84	34	61	-4	T	-2	T	T	0	5.5	73	55	12	0	0	0	0	
SALT LAKE CITY	78	48	87	45	63	-3	0	-2	0	0	0	7.6	69	64	18	0	0	0	0	
VT BURLINGTON	72	57	90	46	64	5	2.5	1.7	1.7	3.5	198	26.8	111	91	58	1	0	4	2	
VA NORFOLK	89	71	93	69	80	7	1.7	.7	.7	1.7	70	43.6	129	97	58	2	0	3	2	
RICHMOND	88	70	94	68	79	7	1.6	.8	1.1	1.6	84	36.9	116	100	60	2	0	3	1	
ROANOKE	84	67	94	61	78	7	5.7	4.9	2.5	5.9	349	40.7	142	100	62	1	0	5	3	
WA QUILLAYUTE	75	44	84	41	60	2	T	-1.3	T	T	1	49.9	80	92	37	0	0	1	0	
SEATTLE-TACOMA	79	52	85	50	66	5	T	-4	T	T	4	20.3	92	85	-35	0	0	1	0	
SPOKANE	77	44	85	40	61	0	0	-2	0	T	8	9.6	91	71	20	0	0	0	0	
YAKIMA	82	38	87	36	60	-2	0	-1	0	0	0	3.8	78	84	18	0	0	0	0	
WV BECKLEY	77	62	83	56	69	6	1.2	.3	.4	1.2	60	31.8	99	100	72	0	0	5	0	
CHARLESTON	79	65	85	62	72	3	5.2	4.5	1.7	5.4	317	47.3	147	100	71	0	0	5	4	
HUNTINGTON	79	65	84	60	72	2	3.7	3.0	1.7	4.1	239	48.8	157	97	70	0	0	4	3	
PARKERSBURG	77	64	83	59	71	2	4.1	3.5	1.2	4.5	282	43.4	150	99	70	0	0	4	4	
WI GREEN BAY	69	43	74	36	56	-4	T	-7	T	.6	33	13.8	65	92	42	0	0	1	0	
LACROSSE	68	46	74	42	57	-6	0	-8	0	1.5	77	18.0	75	98	44	0	0	0	0	
MADISON	68	44	73	37	56	-6	.2	-5	.2	.9	52	21.3	89	96	49	0	0	2	0	
MILWAUKEE	65	50	73	47	58	-5	1.1	.4	1.0	3.3	207	25.5	110	90	55	0	0	2	1	
WAUSAU	67	41	71	37	54	-5	0	-9	0	.8	35	17.0	69	94	44	0	0	0	0	
WY CASPER	67	36	83	27	51	-8	T	-1	T	1.1	292	9.8	111	76	27	0	4	1	0	
CHEYENNE	61	37	79	30	49	-10	.5	.3	.3	1.6	259	11.4	102	88	44	0	3	3	0	
LANDER	67	40	83	32	53	-6	T	-2	T	.7	185	12.1	120	72	28	0	1	0	0	
SHERIDAN	70	36	87	24	53	-6	T	-2	T	.8	138	9.6	82	75	24	0	3	1	0	

National Agricultural Summary

September 11-17, 1989

HIGHLIGHTS: Rain and cool temperatures slowed crop development in the central and southern Great Plains. Freezing temperatures damaged crops in portions of Nebraska. Rain slowed fieldwork in portions of the central and southern Great Plains, Delta, and Corn Belt. Soil moisture was mostly adequate or adequate to surplus except in the northern Great Plains and most of the West, where it was mostly short to adequate.

Winter wheat planting was 14 percent (%) complete, 8 percentage points behind the 5-year average. Corn was mostly good to fair with 90% of the acres in the dent stage or beyond, 4 points behind normal. Forty-seven percent was mature, 16 points behind normal. Harvest was 6% complete, 3 points behind normal. Soybeans were mostly good to fair with 28% of the acres dropping leaves, 13 points behind normal. Harvest was 1% complete, 3 points behind normal. Cotton was mostly fair to good with 45% of the acres opening bolls, 10 points behind normal. Harvest was 7% complete, 3 points behind normal. Sorghum was mostly good to fair with 68% of the acres coloring, 14 points behind normal. Thirty-four percent was mature, 7 points behind normal. Harvest was 20% complete, 3 points behind normal. Florida's citrus groves were in very good condition.

SMALL GRAINS: Winter wheat planting was 14% complete, 8 points behind normal. Planting progress was behind normal in most of the 19 major producing States. Rain delayed planting in the central and southern Great Plains and the Corn Belt. Planting progress was 36 and 30 points behind normal in Colorado and Nebraska, respectively. In South Dakota, planting advanced 27 points and was 55% complete, 4 points behind normal. Planting had not begun in Arkansas, California, North Carolina, and Ohio.

Spring wheat harvest was 83% complete, 11 points behind normal in Montana. Harvest was nearly complete in Idaho.

CORN: Corn was mostly good to fair with 90% of the acres in the dent stage or beyond, 4 points behind normal. Forty-seven percent was mature, 16 points behind normal. Cool, wet weather slowed crop development in the central and southern Great Plains and the Corn Belt. Maturity lagged more than 30 points behind normal in Illinois, Indiana, and Ohio. In Ohio, only 6% was mature, 41 points behind normal. Frost occurred in portions of the central and northern Great Plains, causing some damage in portions of Nebraska. In the 17 major producing States, harvest was 6% complete, 3 points behind normal. Harvest was underway in 12 of the 17 major producing States.

SOYBEANS: Soybeans were mostly good to fair with 28% of the acres dropping leaves, 13 points behind normal. Harvest was 1% complete, 3 points behind normal. Harvest was underway in Illinois, Louisiana, Minnesota, and Mississippi. The percentage of acres dropping leaves lagged 25 or more points behind normal in Illinois, Indiana, Kansas, Michigan, and Ohio. In Indiana, 15% of the acres was dropping leaves, 43 points behind normal, and in Ohio, 16% was dropping leaves, 32 points behind normal.

COTTON: Cotton was mostly fair to good. Forty-five percent of the acres was opening bolls, 10 points behind normal. Harvest was 7% complete, 3 points behind normal. Harvest was underway in 6 of the 14 major producing States. Crop development was behind normal in all of the Delta and Southeast. The percentage of acres opening bolls lagged more than

30 points behind normal in Alabama, Arkansas, Mississippi, and North Carolina. In Georgia, dry weather accelerated crop development, but the percentage of opening bolls was still 14 points behind normal. The percentage of opening bolls lagged 38 points behind normal in Mississippi. Crop development was near or ahead of normal in Arizona, California, New Mexico, and Texas. Cool temperatures slowed boll opening in the Plains area of Texas.

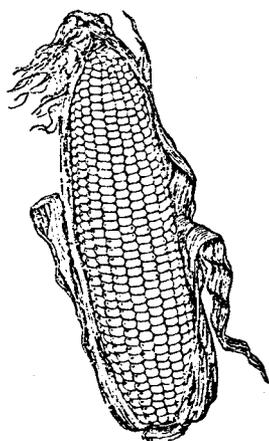
SORGHUM: Sorghum was mostly good to fair with 68% of the acres coloring, 14 points behind normal. Thirty-four percent of the acres was mature, 7 points behind normal. Harvest was 20% complete, 3 points behind normal. Harvest was underway in all the major producing States except Nebraska. In Nebraska, frost and high winds damaged sorghum in the central area. In Texas, harvest was 61% complete, 1 point ahead of normal. Rain slowed harvest in the Low Plains and Cross Timbers areas. In Kansas, 10% of the crop was mature, 10 points behind normal.

OTHER FIELD CROPS: Rice was mostly good to fair with harvest 39% complete, 10 points behind normal. Harvest began in California and was nearly complete in Texas. Rain slowed harvest in Arkansas. In Georgia, peanuts were good to fair with harvest 40% complete, 16 points ahead of normal. In Alabama, peanut harvest was 37% complete, 23 points ahead of normal. Harvest was underway in Oklahoma and Texas. Flue-cured tobacco harvest was 85% complete, 5 points ahead of normal in North Carolina. In Kentucky, burley tobacco harvest was 76% complete, 4 points behind normal.

FRUIT AND NUTS: Florida's citrus groves were in very good condition. New crop fruit shipments increased seasonally. In Georgia, apples were fair to good with harvest 48% complete, 19 points behind normal. Pecans were fair to good, with the shucks beginning to open. Apples were mostly good with harvest 47% complete in North Carolina. In Texas, pecan harvest was expected to begin soon. Lemon and grapefruit harvests continued in western Arizona. Heavy rains delayed fruit harvests in northern California. In Oregon, Anjou pear harvest was complete in the southwest and was underway in the Hood River Valley. Peach and plum harvests were nearly complete in Idaho. In New York, apple, peach, and pear crops were in good to excellent condition.

VEGETABLES: Hot weather delayed fall crop vegetable plantings in Florida. In North Carolina, sweet-potato harvest was 18% complete. Sweetpotato harvest continued in Louisiana and Mississippi. In Texas, carrot, cabbage, and cucumber planting continued in the San Antonio-Winter Garden area. Rain delayed sweetpotato harvest in the High Plains. Fall vegetable crops progressed well in the Rio Grande Valley. In California, heavy rains stopped processing tomato harvest and caused some splitting in the San Joaquin and Sacramento Valleys. Potato harvest continued in the Riverside area. In Oregon, potato harvest continued in the Hermiston-Boardman area and was underway in the Klamath Basin. Onion and potato harvests were active in Colorado and Idaho. Potatoes were mostly poor with 32% of the crop dug in North Dakota. In New England, potato harvest continued, slightly behind normal.

PASTURES AND LIVESTOCK: Pastures were in mostly good to fair condition in the Great Plains and the East and mostly fair to good in the West. Livestock was in mostly good condition. In eastern Nebraska, muddy conditions stressed cattle in feedlots.



Crop Production Highlights

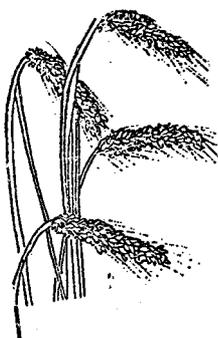
CORN FOR GRAIN production is forecast as of September 1 at 7.32 billion bushels, down slightly from last month but 49 percent above 1988. At the end of August, crop development was lagging behind normal in most of the 17 major producing States. Harvest of corn for grain is well underway in the Southern States but progress is slightly behind normal.

SOYBEAN production is forecast at 1.89 billion bushels, 1 percent below August 1 but 23 percent above 1988. Overall crop development is near normal, however, second crop soybeans and the crop in the eastern Corn Belt are somewhat behind normal.



ALL WHEAT production is forecast at 2.06 billion bushels, up 1 percent from last month and up 14 percent from last year. As of September 1, the last of the winter wheat was being harvested. The spring wheat harvest continued with most of the remaining acreage in Idaho, Montana, and Washington.

ALL COTTON production is forecast at 12.3 million bales, down 20 percent from last year's production and 17 percent below the 1987 crop. Due to weather factors, crop development is lagging behind normal in all States except Arizona, New Mexico, and Texas. Harvest is active in Texas and just getting underway in Arizona and some of the Delta States.



Crop Progress

FOR WEEK ENDING SEPTEMBER 17, 1989

COTTON
% BOLLS OPENING

	1989	1988	AVG.
ALA	37	81	70
ARIZ	89	97	90
ARK	33	72	74
CALIF	90	80	87
GA	48	58	62
IA	69	82	83
MISS	50	88	88
MO	53	49	68
N MEX	70	23	57
N C	47	79	82
OKLA	10	30	20
S C	40	49	66
TENN	46	55	67
TEX	30	30	30
14 STATES	45	54	55

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

COTTON
% HARVESTED

	1989	1988	AVG.
ALA	3	16	9
ARIZ	8	3	1
ARK	0	3	9
CALIF	0	0	0
GA	1	5	5
IA	3	10	16
MISS	0	9	15
MO	1	1	9
N MEX	0	0	0
N C	0	0	0
OKLA	0	0	0
S C	0	0	3
TENN	0	1	7
TEX	14	17	14
14 STATES	7	10	10

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

RICE
% HARVESTED

	1989	1988	AVG.
ARK	19	18	35
CALIF	1	5	4
IA	78	73	83
MISS	24	28	46
TEX	96	86	96
5 STATES	39	37	49

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

CORN
% DENT

	1989	1988	AVG.
COLO	76	90	89
GA	100	100	100
ILL	94	100	99
IND	91	97	98
IOWA	100	100	96
KANS	90	96	90
KY	98	98	99
MICH	65	80	85
MINN	94	99	94
MO	99	100	99
NEBR	95	99	96
N C	97	100	100
OHIO	74	95	97
PA	32	52	69
S DAK	95	95	79
TEX	96	100	100
WIS	70	87	78
17 STATES	90	96	94

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

CORN
% MATURE

	1989	1988	AVG.
COLO	38	46	40
GA	100	100	100
ILL	45	87	78
IND	27	64	69
IOWA	70	100	73
KANS	60	85	65
KY	64	62	72
MICH	10	20	30
MINN	50	91	50
MO	78	87	82
NEBR	40	86	52
N C	91	90	93
OHIO	6	26	47
PA	4	12	18
S DAK	52	84	60
TEX	82	97	91
WIS	19	61	42
17 STATES	47	78	63

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

CORN
% HARVESTED

	1989	1988	AVG.
COLO	0	0	0
GA	77	71	83
ILL	4	11	10
IND	1	3	5
IOWA	5	18	7
KANS	4	35	15
KY	9	14	16
MICH	0	1	2
MINN	2	16	4
MO	10	23	21
NEBR	2	10	3
N C	25	22	33
OHIO	0	1	3
PA	0	0	1
S DAK	5	6	0
TEX	70	73	67
WIS	0	5	1
17 STATES	6	14	9

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

WINTER WHEAT
% PLANTED

	1989	1988	AVG.
ARK	0	0	0
CALIF	0	0	0
COLO	25	39	61
GA	1	1	2
IDAHO	9	9	19
ILL	1	3	2
IND	2	4	4
KANS	4	10	15
MICH	5	5	4
MO	2	8	5
MONT	22	15	30
NEBR	20	40	50
N C	0	0	0
OHIO	0	5	2
OKLA	16	15	15
OREG	7	9	5
S DAK	55	39	59
TEX	24	36	27
WASH	35	50	46
19 STATES	14	19	22

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

SOYBEANS
% DROPPING LEAVES

	1989	1988	AVG.
ALA	16	10	15
ARK	5	4	7
GA	12	15	22
ILL	32	61	57
IND	15	57	58
IOWA	42	70	51
KANS	15	65	40
KY	20	25	27
LA	20	9	18
MICH	20	30	45
MINN	67	98	57
MISS	18	9	19
MO	14	34	31
NEBR	20	82	37
N C	4	0	5
OHIO	16	38	48
S C	2	4	3
S DAK	70	94	61
TENN	20	17	23
19 STATES	28	50	41

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

SOYBEANS
% HARVESTED

	1989	1988	AVG.
ALA	0	0	2
ARK	0	0	0
GA	0	0	1
ILL	2	9	10
IND	0	2	4
IOWA	0	15	4
KANS	0	5	2
KY	0	1	1
LA	2	1	2
MICH	0	0	0
MINN	3	22	6
MISS	1	1	0
MO	0	2	2
NEBR	0	5	2
N C	0	0	0
OHIO	0	2	5
S C	0	0	0
S DAK	0	7	2
TENN	0	0	0
19 STATES	1	7	4

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

GRAIN SORGHUM
% COLORING

	1989	1988	AVG.
ARK	90	96	NA
ILL	84	83	NA
KANS	45	75	70
IA	100	99	100
MISS	93	95	98
MO	86	90	92
NEBR	80	99	89
OKLA	95	75	90
S DAK	95	90	79
TENN	100	100	100
TEX	79	91	90

GRAIN SORGHUM
% MATURE

	1989	1988	AVG.
ARK	79	70	NA
ILL	52	74	NA
KANS	10	35	20
IA	92	89	95
MISS	71	76	88
MO	45	49	60
NEBR	25	85	42
OKLA	15	15	25
S DAK	51	55	34
TENN	68	66	68
TEX	71	65	68

GRAIN SORGHUM
% HARVESTED

	1989	1988	AVG.
ARK	44	41	59
ILL	4	0	8
KANS	1	10	5
IA	71	61	81
MISS	45	42	59
MO	17	12	21
NEBR	0	7	2
OKLA	5	3	5
S DAK	3	5	2
TENN	28	19	35
TEX	61	63	60

11 STATES 69 86 NA
EXCL. STATES WITH NA 68 86 82

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

NA - NOT AVAILABLE.

11 STATES 36 54 NA
EXCL. STATES WITH NA 34 54 41

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

NA - NOT AVAILABLE.

11 STATES 20 25 23
THESE 11 STATES PRODUCED 96% OF THE 1988 GRAIN SORGHUM CROP.

Crop Condition

PERCENT

FOR WEEK ENDING SEPTEMBER 17, 1989

RICE

STATE	VP	P	F	G	EX
ARK	0	0	29	61	10
CALIF	0	0	10	70	20
IA	0	0	29	71	0
MISS	0	0	40	50	10
TEX	0	0	13	87	0
5 STATE	0	0	25	67	8
PREV WEEK	0	0	28	65	7
PREV YEAR	0	0	31	63	6

CORN

STATE	VP	P	F	G	EX
COLO	0	2	12	74	12
GA	0	0	17	65	18
ILL	0	3	19	67	11
IND	0	0	10	78	12
IOWA	0	8	39	50	3
KANS	10	7	11	32	40
KY	0	1	5	63	31
MICH	0	5	15	50	30
MINN	2	8	31	53	6
MO	6	15	37	39	3
NEBR	8	8	23	48	13
N C	0	0	10	70	20
OHIO	2	9	36	44	9
PA	2	9	27	43	19
S DAK	4	8	38	36	14
TEX	0	3	5	56	36
WISC	0	1	6	76	17
17 STATE	2	6	24	56	12
PREV WEEK	2	7	26	52	13
PREV YEAR	11	34	36	17	2

SOYBEANS

STATE	VP	P	F	G	EX
ALA	2	10	34	54	0
ARK	0	2	86	12	0
GA	2	4	26	62	6
ILL	0	0	14	78	8
IND	0	1	16	74	9
IOWA	0	5	43	50	2
KANS	6	6	24	22	42
KY	0	1	31	60	8
LA	2	22	50	26	0
MICH	2	5	18	50	25
MINN	2	5	38	51	4
MISS	5	25	55	15	0
MO	2	11	41	43	3
NEBR	11	14	58	16	1
N C	0	3	17	71	9
OHIO	2	11	38	42	7
S C	0	0	12	83	5
S DAK	3	5	31	43	18
TENN	0	12	64	24	0
19 STATE	2	7	36	48	7
PREV WEEK	1	7	38	47	7
PREV YEAR	5	23	49	22	1

GRAIN SORGHUM

STATE	VP	P	F	G	EX
ARK	0	2	38	49	11
ILL	0	0	7	78	15
KANS	0	12	26	38	24
LA	0	13	48	39	0
MISS	0	5	50	45	0
MO	1	2	31	58	8
NEBR	3	23	63	11	0
OKLA	0	0	5	92	3
S DAK	10	31	33	23	3
TENN	2	1	32	64	1
TEX	1	7	25	43	24
11 STATE	1	12	33	38	16
PREV WEEK	1	10	36	40	13
PREV YEAR	3	19	37	34	7

COTTON

STATE	VP	P	F	G	EX
ALA	0	4	37	59	0
ARIZ	0	0	0	75	25
ARK	0	7	71	22	0
CALIF	0	0	5	85	10
GA	0	1	44	54	1
LA	0	9	69	22	0
MISS	0	15	50	35	0
MO	0	13	62	25	0
N MEX	0	0	35	45	20
N C	0	0	16	84	0
OKLA	0	0	90	10	0
S C	0	0	6	94	0
TENN	5	3	82	10	0
TEX	0	9	65	24	2
14 STATE	0	7	54	36	3
PREV WEEK	0	6	52	38	4
PREV YEAR	1	4	35	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 1.00 to 3.00 in. north; 0.30 in. central, south; 1.00 to 2.00 in. local areas. Temperatures 1° or more below normal west; 1 to 2° above normal elsewhere.

Days suitable for fieldwork 5.8. Soil moisture 64% short, 23% adequate, 13% surplus. Corn 97% mature, 96% 1988, 99% avg.; 57% harvested, 62% 1988, 68% avg.; 11% fair, 49% good, 40% excellent. Cotton 37% bolls opened, 81% 1988, 70% avg.; 3% harvested, 16% 1988, 9% avg.; 4% poor, 37% fair, 59% good. Soybeans 93% blooming, 98% 1988, 99% avg.; 86% setting pods, 88% 1988, 96% avg.; 35% turning color, 24% 1988, 33% avg.; 17% dropping leaves, 10% 1988, 15% avg.; 9% mature, 5% 1988, 8% avg.; 2% very poor, 10% poor, 34% fair, 54% good. Peanuts 54% dug, 9% 1988, 23% avg.; 37% combined, 3% 1988, 14% avg.; 84% fair, 16% good. Sorghum 52% harvested, 37% 1988, 45% avg.; 6% poor, 35% fair, 59% good. Livestock, pastures mostly good to fair. Primary activities: Harvesting corn, sorghum, peanuts, hay; defoliating, harvesting cotton; preparing land, seeding winter annuals; maintaining harvest equipment; routine care of livestock, poultry, catfish.

ALASKA: Rain, low 20° temperatures ended the growing season for most areas of the Railbelt. Highs 4° below normal to 2° above normal. Below normal at Clearwater to 10.56 in. above normal at Anchorage.

Days suitable for harvest 3.0. Topsoil 24% short, 40% adequate, 36% surplus. Subsoil 20% short, 42% adequate, 38% surplus. 2nd crop hay harvest 55% complete. Barley harvest 95% complete. Commercial potato harvest 50% complete, was struggling behind 70% harvested 1988 due to muddy fields. Continuous moisture was causing quality deterioration, some sprouting to small grains in Matanuska Valley.

ARIZONA: Temperatures 5° below to 3° above normal. Extremes 30°; 107°. Generally clear skies, low humidities, light winds, average temperatures. Scattered showers; rainfall none to 0.10 in.

Cotton defoliation, harvesting progressed lightly central, southwest; pink bollworm controls applied. Alfalfa hay good; harvesting moderate to active; renovation, reseeding, seeding underway southwest; beet army worm spraying continued; hay roughage adequate. Field corn, sorghum fair; silage harvesting both crops winding down. Western areas; lemon, grapefruit harvests continued; planting, irrigating of fall lettuce, cauliflower, broccoli continued. East; apple harvest, packing advanced; thinning, cultivating fall lettuce.

ARKANSAS: Temperatures well below normal. Light to moderate rainfall all areas. Extremes 41°; 90°. Rainfall 0.01 to 2.60 in.

Days suitable for fieldwork 4.0. Soil moisture 3% short, 71% adequate, 26% surplus. Soybeans 97% blooming, 98% 1988, 99% avg.; setting pods 94% 1988, 91% 1988, 93% avg.; yellowing 18%, 15% 1988, 20% avg. Rice 100% headed, 100% 1988, 100% avg.; ripe 58%, 67% 1988, 71% avg. Corn 80% harvested, 75% 1988, 83% avg. Main activities: Rice, sorghum, corn harvest; draining rice fields; cotton defoliation; spraying for boll weevils, bollworms; planting fall vegetables; preparing

ground for seeding small grains, fall pastures; hay harvesting. Rains delayed rice harvest. Stem canker major problem in most eastern countries. Frog-eye leaf spot reported. Sorghum fields still having problems with bollworms, midge, webworms. Corn yields are excellent. Peanut harvest underway. Hay, pasture good. Livestock good.

CALIFORNIA: Weak disturbance brought generally cooler temperatures to northern State early in week. Strong high pressure in Pacific northwest produced offshore flow, above normal temperatures for much of State. Low pressure trough neared coast, combined with moisture remnants of Hurricane Octave bringing rain northward late in week.

Open weather, good progress field activities until Saturday. Saturday substantial rain curtailed most fieldwork northern one half. Rice harvest began. Rain will delay somewhat. Draining fields active. Cotton defoliant application increased. Harvest southern California increased. Dry bean harvest continued; cut fields, windrows require turning. Sunflower, sugarbeet, corn for silage, grain harvests progressed. Safflower harvest near complete. Alfalfa, Sudan harvests continued. Preparations fall seeded small grains active. Pest controls as necessary. Apple, soft dates were harvested. Table grape, wine grape harvests progressed. Treating later grape varieties for hoppers, rot. Ash whitefly showing up in Palmdale valley, various deciduous trees. Olive harvest began. Picking Clingstone peaches completed. Prune harvest finished Butte, 90 percent complete Yuba. Almond, walnut, pistachio harvests active. Western county grapefruit, Valencia harvests winding down, desert grapefruit, lemon harvest increasing Riverside County. Late heavy rains delayed harvest many crops, especially northern counties. Virtually no crop damage at this time, continued rain increases crop loss likelihood. Asparagus harvest increasing Delta area, excellent quality. Broccoli moderate supply central coast district. Carrot harvest active Kern District. Cauliflower moderate to heavy supply. Heavy supplies celery generally good quality continued. Head lettuce supplies moderate. Potato harvest continued Riverside area. Sweet potato harvest continued. Strawberries moderate supply. Heavy rainfall caused split damage processing tomatoes San Joaquin, Sacramento Valleys. Harvesting halted. Livestock generally good, statewide. Range, pasture conditions San Joaquin, Sacramento valleys central coast area continued poor, dry until Saturday when heavy rains fell. In foothills, depleted feed water supplies helped by rainfall. Supplemental feeding continued most areas.

COLORADO: Several areas in eastern State first snow, while the west slope was dry during the period. New moisture 0.10 to 1.80 in. Temperatures 10 to 15° below normal in the south, west.

Days suitable for fieldwork 2.8. Soil moisture 11% very short, 22% short, 58% adequate, 9% surplus. Second cutting alfalfa complete, third cutting 40% complete. Barley harvest complete. Corn 76% dent; 38% mature. Oats 83% harvested; spring wheat 80% harvested. Dry onions 61% harvested; dry beans 38% cut, with 20% threshed.

Summer potatoes 65% harvested; fall potatoes 15% harvested. Sorghum 61% turning color; 37% mature. Winter wheat 25% seeded; 9% emerged. Livestock good. Range, pasture mostly fair to good.

FLORIDA: Scattered thunderstorms caused usual rain variations. Several areas, 1.00 in. or more rain; heaviest total, 4.62 in., Glen St. Mary. Few areas had no rain. Temperatures 1 to 2° above normal. Warmest readings mostly mid 90s; coolest low 60s Panhandle to mostly upper 60s to low 70s elsewhere.

Soil moisture, Panhandle short to adequate; northern, central Peninsula topsoil mostly adequate. Southern Peninsula soil moisture adequate to surplus. Corn, peanut harvest, haying active. Cotton opening. Sugarcane, soybeans good progress. Sugarcane planting active. Land preparation began, fall seeded crops. Panhandle pastures remained fair to good; northern Peninsula good. Central Peninsula pastures declined, varied fair to excellent; southern Peninsula pastures continued good to excellent. Cattle remained good to excellent. Citrus groves very good. Few rains; however, moisture currently adequate. Irrigation, fertigation continued. New crop fresh shipments increased; good fruit coloring. Caretakers cutting cover crops, pumping canals. Hot temperatures, scattered rain continued over vegetable producing areas. Planting delayed many localities due to hot weather, hurricane threat. Planting active: Snap beans, cabbage, carrots, celery, sweet corn, cucumbers, eggplant, peppers, radishes, squash, tomatoes.

GEORGIA: Temperatures 1 to 3° above normal. Warmest highs mid, upper 80s north, low, mid 90s central, south. Coolest, low, mid 50s north, near 60 central, low, mid 60s extreme south. All locations north rain, less than 0.50 to 3.00 in., less central, south, totals under 0.50 in., only isolated areas 1.00 to 2.00 in.

Days suitable for fieldwork 5.9. Soil moisture 13% very short, 43% short, 41% adequate, 3% surplus. Corn harvest very active. Dry weather accelerated cotton opening. Sorghum grain 42% harvested, 21% 1988, 31% avg. Peanuts 25% fair, 74% good, 1% excellent; 57% dug, 11% 1988, 36% avg.; 40% threshed, 4% 1988, 24% avg.; exceptional harvest progress, more than twice normal. Late soybeans need rain; worms, insects heavy. Rye, other small grain seeding slowed, dry soils. Apples 59% fair, 41% good; 48% harvested, 62% 1988, 67% avg. Pecans 13% poor, 44% fair, 43% good; shucks beginning to open, mite infestations heavy. Pastures, hay fair to good. Cattle, hogs good.

HAWAII: Favorable weather continued to benefit agriculture. Sunny skies, beneficial showers. Winds up to 20 mph with temperatures high 60s to low 90s. Rainfall none to 3.10 in. Days suitable for farm work 7.0. Papaya orchards fair to good. Sugar, pineapple harvesting continuous. Coffee, macadamia harvests underway.

IDAHO: Temperatures near normal, 6° below normal. Limited shower activity until weekend, well below normal.

Days suitable for fieldwork 6.0. Soil moisture 7% very short, 20% short, 72% adequate, 1% surplus. Good week of harvest interrupted by weekend showers. Eastern frost killed potato vines, helping growers prepare for harvest. Nearly all potato vines killed. Winter wheat harvest virtually complete. Spring wheat 97% harvested, 100% 1988, 92% avg. Spring barley 94% harvested, 100% 1988, 91% avg. Oats 92% harvested, 98% 1988, 95% avg. Winter wheat 9%

planted, 9% 1988, 19% avg.; very little emerged. Potatoes 13% harvested, 7% 1988, 10% avg. Third cutting alfalfa hay 51% harvested, 65% 1988, 44% avg. Lentil harvest virtually complete. Sugarbeets 3% harvested, 2% 1988. Onions 35% harvested, 49% avg. Dry beans 56% harvested, 43% avg. Peach, plum harvests winding down. Apples 15% harvested, 7% 1988. Hops 75% harvested. Recent moisture initiated regrowth of range, pasture forage. Cattlemen continued to move livestock off of Southeastern rangeland. Livestock good.

ILLINOIS: Temperatures 3 to 7° below normal. Rainfall less than 1.00 in. north, central; 1.00 to 3.00 in. south.

Days suitable for fieldwork 2.00. Soil moisture 8% short, 59% adequate, 33% surplus. Soybeans turning color 71%, 89% 1988, 83% avg. Alfalfa 3rd crop cut 85%, 97% 1988, 96% avg.; 12% fair, 77% good, 11% excellent. Pasture 1% poor, 16% fair, 67% good, 16% excellent.

INDIANA: Temperatures 4 to 6° below normal. Lows low 40s to low 50s, highs upper 70s to low 80s. Precipitation 0.75 to 3.00 in.

Days suitable for fieldwork 1.3. Topsoil 25% adequate, 75% surplus. Subsoil 4% short, 49% adequate, 47% surplus. Corn, soybean good. Soybean 49% turning yellow, 84% 1988, 85% avg. Silo filling 20% 1989, 65% 1988, 62% avg. Tobacco 46% harvested, 60% 1988, 72% avg. 1990 winter wheat cropland 47% plowed, 50% 1989, 50% avg. Pasture 12% fair, 70% good, 18% excellent. Wet field will hinder early harvest efforts, may cause lodging problems.

IOWA: Temperatures 6 to 8° below normal. Extremes 33°; 85°. Rainfall none to 0.68 in., average 0.09 in.

Days suitable for fieldwork 3.9. Topsoil 6% short, 90% adequate, 4% surplus. Subsoil 80% short, 20% adequate. Corn good. Soybean leaves turning color 85%, 97% 1988, 84% avg. Third crop alfalfa 98% harvested, 100% 1988, 89% avg. Winter wheat 2% seeded, 10% 1988, 9% avg. Livestock good. Pasture 15% poor, 44% fair, 31% good, 10% excellent.

KANSAS: Temperatures mid 50 to 60°, 9 to 13° below normal. Precipitation exceeded 1.00 in. all areas. Southern areas 2.00 in. or more with northwest lowest at 1.20 in.

Days suitable for fieldwork 1.0. Topsoil 3% short, 44% adequate, 53% surplus. Subsoil 22% short, 64% adequate, 14% surplus. Best moisture figures farmers seen in several years. Rain, cool weather delays crop development, scattered light frost northwest. Corn, sorghum 2 to 3 weeks behind schedule southwest, concern crops may not reach maturity before first freeze. Wheat seeding modest progress, behind schedule; much volunteer wheat caused by excess moisture needs to be destroyed. Adequate moisture for germination, early growth. Range, pasture improving; few livestock problems encountered.

KENTUCKY: Temperatures slightly below normal. Extremes 60°; 80°. Precipitation above normal, especially east. Rainfall 1.30 in. west, central, 3.10 in. east.

Days suitable for fieldwork 4.4. Soil moisture 1% very short, 22% short, 71% adequate, 6% surplus. Burley 76% cut, 75% 1988, 80% avg. Late tobacco fair to good. Housed tobacco showing some houseburn. Dark tobacco 81% cut, 82% 1988, 79% avg. Corn for grain harvest became active west. Yields generally high. Single crop beans beginning to mature, late beans will benefit from recent rain, need another frost free month. Hay

crops, pasture feed good to excellent.

LOUISIANA: Temperatures normal to 4° below normal. Extremes 53°; 94°. Rainfall 0.26 to 1.41 in.

Days suitable for fieldwork 5.3. Soil moisture 2% very short, 32% short, 56% adequate, 10% surplus. Corn harvested 90%, 90% 1988, 94% avg. Cotton open bolls 69%, 82% 1988, 83% avg.; harvested 3%, 10% 1988, 16% avg.; 9% poor, 69% fair, 22% good. Hay final cutting 69%, 52% 1988, 71% avg. Rice ripe 91%, 91% 1988, 94% avg.; harvested 78%, 73% 1988, 83% avg.; 29% fair, 71% good. Sorghum turning color 100%, 99% 1988, 100% avg.; ripe 92%, 89% 1988, 95% avg.; harvested 71%, 61% 1988, 81% avg.; 13% poor, 48% fair, 39% good. Soybeans setting pods 97%, 96% 1988, 99% avg.; leaves turning 42%, 21% 1988, 41% avg.; shedding leaves 20%, 9% 1988, 18% avg.; harvested 2%, 1% 1988, 2% avg.; 2% very poor, 22% poor, 50% fair, 26% good. Sugarcane planted 72%, 30% 1988, 47% avg.; 7% fair, 93% good. Sweet potatoes harvested 38%, 45% 1988, 56% avg.; 50% fair, 50% good. Vegetable 5% very poor, 7% poor, 63% fair, 25% good. Pasture 40% fair, 60% good. Livestock 5% fair, 93% good, 2% excellent.

MARYLAND & DELAWARE: MARYLAND: Precipitation 0.38 in. Temperature 76°, normal 69°. Extremes 51°; 96°.

Days suitable for fieldwork 5.5. Topsoil 11% very short, 16% short, 62% adequate, 11% surplus. Subsoil 11% very short, 5% short, 84% adequate. Field corn good; dent stage 86%, 83% 1988, 91% avg.; mature 38%, 48% 1988, 53% avg.; harvested for grain 7%, 12% 1988, 18% avg.; harvested for silage 46%, 66% 1988, 70% avg. Soybeans good; setting pods 86%, 87% 1988, 93% avg.; turned 13%, 20% 1988, 31% avg.; shedding leaves 4%, 4% 1988, 11% avg. Tobacco fair to good; topped 91%, 99% 1988, 99% avg.; harvested 65%, 81% 1988, 76% avg. Pasture fair to good. All hay supplies good. Barley seeded 7%, 7% 1988, 11% avg. Rye seeded 5%, 7% 1988, 13% avg.

DELAWARE: Precipitation 0.70 in. Temperature 77°, normal 69°. Extremes 57°; 94°.

Days suitable for fieldwork 5.8. Topsoil 29% short, 57% adequate, 14% surplus. Subsoil 29% short, 71% adequate. Field corn good; dent stage 96%, 95% 1988, 95% avg.; mature stage 47%, 41% 1988, 71% avg.; harvested for grain 16%, 21% 1988, 22% avg.; harvested for silage 50%, 81% 1988, 76% avg. Soybeans good; setting pods 89%, 98% 1988, 98% avg.; turned 8%, 10% 1988, 31% avg. Pasture fair to good. All hay supplies adequate.

MICHIGAN: Temperatures 1 to 6° below normal. Extremes 32°; 78°. Precipitation none to 1.57 in. across State.

Days suitable for fieldwork 3.5. Soil moisture 10% short, 55% adequate, 35% surplus. Corn 65% dent, 80% 1988, 85% avg.; mature 10%, 20% 1988, 30% avg.; harvested 0%, 1% 1988, 2% avg.; 5% poor, 15% fair, 50% good, 30% excellent. Soybeans 20% dropping leaves, 30% 1988, 45% avg.; 0% harvested, 0% 1988, 0% avg.; 2% very poor, 5% poor, 18% fair, 50% good, 25% excellent. Dry Beans 15% mature, 20% 1988, 40% avg.; 2% very poor, 13% poor, 25% fair, 45% good, 15% excellent. Winter wheat 5% planted, 5% 1988, 4% avg. Major activities: Corn silage chopping, hay cutting, apple picking, harvest of late season vegetables.

MINNESOTA: Temperatures none to 6° below normal. Extremes 27°; 89°. Precipitation 0.20 to 0.78 in. Greatest weekly total 0.65 in.

Days suitable for fieldwork 5.0. Topsoil 1% very short, 15% short 80% adequate, 4% surplus. Corn 50% mature, 91% 1988, 50% avg.; 2% combined, 16% 1988, 4% avg. Soybeans 67% shedding leaves, 98%

1988, 57% avg.; 14% mature, 57% 1988, 25% avg.; 3% combined, 22% 1988, 6% avg. Sugarbeets 4% harvested 0% 1988, 5% avg. Dry beans 24% harvested, 57% 1988, 43% avg. Potatoes 26% harvested, 39% 1988, 38% avg. Flax 65% harvested, 73% 1988, 63% avg. Sunflowers 2% harvested, 15% 1988, 4% avg. Winter Wheat 73% seeded, 87% 1988, 70% avg. Rye 72% seeded, 86% 1988, 69% avg. Field Corn 18% cut for silage, 74% 1988, 35% avg. Hay, grain 67% tilled, 71% 1988, 58% avg. Corn 28% moisture, 24% 1988, 25% avg. Soybeans 14% moisture, 13% 1988, 13% avg. Soybeans 2% very poor, 5% poor, 38% fair 51% good, 4% excellent. Corn 2% very poor, 8% poor, 31% fair, 53% good, 6% excellent

MISSISSIPPI: Temperatures normal. Extremes 53°; 95°. Rainfall 1.23 in., 0.27 in. above normal.

Days suitable for fieldwork 4.3, 4.4 1988, 5.9 avg. Soil moisture 25% short, 60% adequate, 15% surplus. Corn good; 44% harvested, 43% 1988, 59% avg. Cotton fair; 50% open bolls, 88% 1988, 88% avg. Some early harvest. Hay 81% harvested, 82% 1988, 87% avg. Rice good; 24% harvested, 28% 1988, 46% avg. Sorghum fair to good; 45% harvested, 42% 1988, 59% avg. Soybeans fair; 1% harvested, 1% 1988, 0% avg, soybean looper control failures reported. Sweet potatoes 50% harvested, 35% 1988, 39% avg. Wheat 1% planted, 10% 1988, 6% avg. Livestock, pastures good. Pecans 5% very poor, 15% poor, 45% fair, 35% good. Activities: Insect control, defoliation, rice harvest.

MISSOURI: Temperatures well below average, 4° below southeast to 9° below elsewhere. Rainfall 0.50 to 1.50 in., few southeast, southwest counties up to 2.50 in.

Days suitable for fieldwork 1.7. Topsoil 5% short, 62% adequate, 33% surplus. Most surpluses northern two-thirds. Subsoil 36% short, 61% adequate, 3% surplus. Most surpluses southwest. Crop maturation delayed by weather. Corn 100% mature southeast, 61% to 83% elsewhere. Corn harvested 48% southeast, 43% south central, less than 10% elsewhere. Grain sorghum 77% mature southeast, 15% to 38% elsewhere. Soybeans mature ranges zero southwest to 6% southeast. Flooding damage northwest. Pasture 1% very poor, 3% poor, 27% fair, 56% good, 13% excellent.

MONTANA: Temperatures cool falling to freezing or below. Temperatures near normal to 3° below north to 7° below normal southwest, southeast. Rain or light snow in central, southeast.

Days suitable for fieldwork 6.0. Topsoil 28% short, 67% adequate, 5% surplus. Subsoil 36% short, 61% adequate, 3% surplus. Winter wheat harvested 95%, 100% 1988, 100% avg. Spring wheat harvested 83%, 100% 1988, 94% avg. Barley harvested 78%, 100% 1988, 92% avg. Oats harvested 84%, 100% 1988, 93% avg. Corn silage 29% harvested, 71% 1988, 36% avg. Dry beans harvested 33%, 51% 1988, 37% avg. Second cutting alfalfa 82% harvested, 95% 1988, 90% avg. Pasture, range feed 2% very poor, 8% poor, 24% fair, 52% good, 14% excellent.

NEBRASKA: Temperatures 5 to 9° below normal. Extremes 28°; 96°. Precipitation less than 0.10 in. north, to over 1.00 in. south.

Days suitable for fieldwork 2.2. Topsoil 15% short, 61% adequate, 24% surplus. Subsoil 55% short, 45% adequate. Soybeans 65% turning color, 94% 1988, 76% avg. Frost damage areas in central, northeast. Alfalfa hay 2% very poor, 9% poor, 53% fair, 35% good, 1% excellent. 96% third cutting, 97% 1988, 94% avg. Growers in northeast making fourth cutting. Winter wheat 4% emerged, 12% 1988, 24% avg. Rain delayed planting. Pasture, range feed 16% very short, 43% short, 41%

adequate. Hay, roughage 4% very short, 65% short, 31% adequate. Rain, cool weather halted wheat planting, dry edible bean harvesting. Light frost damaged corn across northern part of State, into central, southwest. Frost, high winds damaged sorghum in central counties. High levels of corn borer damage in eastern counties. Cattlemen weaning spring calves, fall calves born. Eastern feed lots muddy conditions, slow gains. Main activities: Preparing equipment for harvest; cutting hay, silage where dry enough; moving grain; sowing wheat.

NEVADA: Dry week. Weekend low pressure trough replaced high pressure ridge which shifted flow of moist south air including remnants of hurricane Octave bringing around 0.50 in. rain western valleys, up to 1.50 in. higher elevations. Temperatures near to a little above normal west, south. Cool winds northeast kept temperatures 2 to 5° below normal.

Dry weather early in period allowed good progress alfalfa seed combining, potato digging, harvesting remaining acreage small grains, hay. Movement livestock to lower elevation ranges accelerated by dry weather. Rain weekend curtailed most harvesting operations.

NEW ENGLAND: Precipitation 2.00 to 2.25 in. Massachusetts, Rhode Island, 1.50 to 2.00 in. Connecticut, Vermont, New Hampshire, 1.00 to 1.50 in. Maine. Temperatures upper 50s far north to upper 60s south coast. Temperatures slightly above normal north, central, near normal south coast.

Days suitable for fieldwork 5.0. Fieldwork progress 1.0 days behind. Soil moisture 21% short, 79% adequate north; 55% adequate, 45% surplus south. Grazing availability 42% short, 58% adequate north; 12% short, 75% adequate, 13% surplus south. Maine potatoes 9% harvested, 9% 1988, 12% avg.; good. Connecticut River Valley potatoes 35% dug, 33% 1988, 37% avg.; fair to good. Maine oats 69% harvested, 89% 1988, 66% avg.; good to excellent. Field corn good. Sweet corn 89% picked, 90% 1988, 89% avg.; good. Shade, outdoor tobacco harvest complete, good. Second crop hay 90% cut, 90% 1988, 89% avg.; fair to excellent. Third crop hay 51% cut, 61% 1988, 58% avg.; fair to excellent. Apple good to excellent; color fair to good; medium to large size. Peaches 87% picked; good to excellent. Pears 70% harvested; good to excellent. Cranberry dry harvest delayed by rain; wet harvest beginning this week. Major farm activities: Haying, vegetable, fruit harvest, post harvest activities.

NEW JERSEY: Temperatures much above normal. Extremes 50°; 96°. Rainfall 1.53 in. north, 1.76 in. central, 1.89 in. south. Heaviest 24-hour total 1.86 in. on 14th, 15th. Estimated soil moisture percent field capacity 60% north, 59% central, 54% south. Four inch soil temperatures 69° north, 71° central, 73° south.

Rain during the period beneficial to late season crops. Harvest of fall vegetables begun. Very light volumes of summer vegetables moved to market. Sweet potato harvest general. Many growers completed peach harvest. Fall apple picking increasing. Red delicious harvest began Sunday southern counties. Corn silage making advanced. Early planted soybeans, grain corn maturing. Rain improved pasture growth. Germination, growth of recently seeded alfalfa, small grain acreage improved.

NEW MEXICO: Rain fell scattered locations: temperatures near to slightly below normal.

Days suitable for fieldwork 5.7. Soil moisture 50% short, 50% adequate. Cotton bolls open 70%,

35% fair, 45% good, 20% excellent. Wheat planted 73%. Cattle 45% fair, 33% good, 22% excellent. Sheep 43% fair, 43% good, 14% excellent. Ranges, pastures 20% poor, 60% fair, 20% good.

NEW YORK: Highs 90s in eastern areas early week. Highs later in the week only reached the 60s, low 70s. Rainfall fell late in the week from the southwest into central areas and across in the Adirondacks.

Days suitable for fieldwork 5.0. Soil moisture mostly short. Pasture poor to fair, hay fair to good, corn mostly good. Third cutting of alfalfa 55% complete, 45% 1988, 47% avg. Corn silage harvest underway. Apple crop 5% harvested. Western region pear crop 85% picked. Late season peach harvest continued. Crop 80% picked. Vegetable harvest in full swing. Harvest of summer crops winding down, fall crop picking up momentum.

NORTH CAROLINA: Temperatures 1 to 8° above normal across State. Extremes 51°; 95°. Precipitation none to 4.94 in.

Days suitable for fieldwork 5.6. Soil moisture 7% very short, 31% short, 50% adequate, 12% surplus. Pasture 24% fair, 71% good, 5% excellent. Livestock feed from pasture 85%. Crop condition: Sweet potatoes 27% fair, 66% good, 7% excellent; apples 9% poor, 9% fair, 64% good, 18% excellent; peanuts 41% fair, 50% good, 9% excellent; sorghum 20% fair, 72% good, 8% excellent; hay 14% fair, 76% good, 10% excellent. Hay second cutting 83% completed, third cutting 56% completed. Hay, roughage 2% short, 81% adequate, 17% surplus. Harvesting completed: Flue-cured tobacco 85%, 79% 1988, 80% avg.; burley tobacco 50%, 58% 1988, 66% avg.; corn silage 59%, 76% 1988, 78% avg.; apples 47%, 38% 1988, 41% avg.; sorghum 12%, 28% 1988, 22% avg.; sweet potatoes 18%, 14% 1988, 14% 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 3 to 6° below normal. First frost west, parts of central. Precipitation 0.10 in. northwest to 0.60 in. north central.

Days suitable for fieldwork 6.6. Topsoil 12% very short, 48% short, 40% adequate; 5-year avg. 19% very short, 28% short, 49% adequate, 4% surplus. Subsoil below average, 39% very short, 52% short, 9% adequate; average 25% very short, 26% short, 48% adequate, 1% surplus. Most row crops poor to fair. Sunflower 5% very poor, 19% poor, 56% fair, 20% good; dry edible beans 6%, 54%, 34%, 6%; flax 11%, 30%, 59%, none; potatoes 97% poor, 3% fair. Most row crop progress near average. Sunflower 41% bracts turned brown or beyond; dry edible beans 33% combined; flax 69% combined; corn for silage 50% cut; potatoes 32% dug; sugarbeets 2% lifted. Pasture 9% very poor, 45% poor, 37% fair, 9% good.

OHIO: High temperatures upper 60s to upper 70s; 3 to 7° subnormal. Lows low 50s to near 60°; north to 5° above normal. Growing degree days accumulations near to slightly below normal. Precipitation above normal, above 1.00 in. most locations

Days suitable for fieldwork 3.9. Soil moisture 7% short, 67% adequate, 26% surplus. Farm activities: Mowing, spraying pesticides, preparing for wheat seeding, picking fruits, vegetables. Corn fair to good; lodging. Soybeans fair to good; bean leaf beetle damage, being controlled with sprays. Hay, pasture fair to good, harvested forage low quality.

OKLAHOMA: Temperatures 15° below normal central to 10° below normal southeast. Precipitation 0.64 in. Panhandle to 4.49 in. central.

Days suitable for fieldwork 3.3. Topsoil 50% adequate, 50% surplus. Subsoil 2% short, 98% adequate. Wheat 16% planted, 15% 1988, 15% avg.; 3% emerged, 3% 1988, 3% avg. Dry weather needed for wheat pasture seeding. Cotton 90% fair, 10% good; 10% open bolls, 30% 1988, 20% avg.; 0% harvested, 0% 1988, 0% avg. Development one week behind average. Sorghum 5% fair, 92% good, 3% excellent; 95% coloring, 75% 1988, 90% avg.; 15% mature, 15% 1988, 25% avg.; 5% harvested, 3% 1988, 5% avg. Soybeans 30% mature, 5% 1988, 20% avg. 5% harvested, 1% 1988, 2% avg. Peanuts 40% mature, 55% 1988, 20% avg. 1% harvested, none 1988, 1% avg. Corn 35% harvested, 40% 1988, 55% avg. Pastures good, moisture improving. Cattle good; marketings stable, prices up slightly from preceding week.

OREGON: Temperatures well above normal Willamette Valley, southwest, northern coast. Extreme south coast below normal due to low clouds, fog. Warmer air took until mid week to reach east of Cascades. Precipitation fell 16th, generally at higher elevations.

Soil moisture 51% short, 49% adequate. Barley 85% headed; 0% seeded, 1% 1988, 2% avg. Field preparation for grain, seed crops continued. Red clover seed harvest continued Willamette Valley. Mint harvest completed, fields flamed west. Grass seed harvest underway Harney County; majority of grass seed fields burned central area; new plantings started Willamette Valley, new bluegrass fields planted Jefferson County. Hop harvest neared completion west. Last hay cuttings being taken most areas. Bosc, Anjou pear harvest completed southwest, getting underway Hood River Valley. Apple harvest continued Milton-Freewater, Willamette Valley; early Golden Delicious picked Hood River. Most Evergreen blackberry growers completed harvest west, blueberry harvest also in final stages. Day neutral strawberry harvest continued. Subsoiling, pruning caneberry fields. Hazelnuts dropping nicely Willamette Valley, harvest to begin this week. Cranberry growers sprinkled for frost south coast, crop looks good, harvest to begin about 25th. Onion harvest continued Milton-Freewater. Potato harvest continued Hermiston-Boardman, early varieties dug Klamath Basin. Garlic planted central area. Snap bean harvest completed Willamette Valley; sweet corn, table beets about half harvested. Livestock, range, pasture mostly good to excellent. Fall feed supplies, aftermath pastures very good northeast. Fall green-up limited Columbia Basin rangeland. Many pastures burnt, fertilized southwest.

PENNSYLVANIA: Warm, wet week. Slow moving frontal system produced generous rains across northern, western counties of State around mid week. Widespread showers statewide late in week. Temperature 68°, 3° above normal. Extremes 48°, 94°. Precipitation 1.67 in., 0.82 in. above normal.

Days suitable for fieldwork 5.0. Soil moisture 70% short, 28% adequate, 2% surplus. Corn 76% dough, 89% 1988, 96% avg.; 32% dent, 52% 1988, 69% avg.; 4% mature, 12% 1988, 18% avg.; 0% harvested, 0% 1988, 1% avg. Ensilage corn harvested 11% complete, 24% 1988. Corn 2% very poor, 9% poor, 27% fair, 43% good, 19% excellent. Soybean 1% very poor, 4% poor, 26% fair, 48% good, 21% excellent. Wheat planted 24% complete, 12% 1988. Barley planted 22% complete, 21% 1988. Tobacco harvest 80% complete, 74% 1988. Potato harvest 52% complete, 41% 1988. Second cutting alfalfa

93% complete, 100% 1988. Third cutting alfalfa 58% complete, 81% 1988. Fourth cutting alfalfa 27% complete, 29% 1988. Second cutting clover-timothy 80% complete, 94% 1988. Quality of hay made fair to good. Feed from pastures average to below average. Apple harvest 38% complete, 32% 1988. Peach harvest 88% complete, 88% 1988. Grape harvest 24% complete, 14% 1988. Fall plowing 40% complete, 43% 1988. Activities: Harvesting hay, haylage, potatoes, apples, peaches, grapes, vegetables, tobacco, corn silage; fall plowing, planting; maintaining machinery, caring for livestock.

PUERTO RICO: Data Not Available.

SOUTH CAROLINA: Rainfall 1.00 in. northwest to 0.50 in. elsewhere. Temperatures 4 to 6° above normal.

Days suitable for fieldwork 5.9. Soil moisture 49% short, 49% adequate, 2% surplus. Cotton 6% fair, 94% good, 40% open bolls, 49% 1988, 66% avg. Soybeans 12% fair, 83% good, 5% excellent; 96% blooming, 100% 1988, 99% avg.; 88% setting pods, 90% 1988, 89% avg.; 17% leaves turning, 12% 1988, 12% avg.; 2% shedding leaves, 4% 1988, 3% avg. Tobacco good, 92% harvested, 94% 1988, 97% avg.; 41% stalks destroyed, 24% 1988, 39% avg. Corn good; 95% matured, 97% 1988, 99% avg.; 54% harvested, 42% 1988, 62% avg. Sorghum good, 28% harvested, 22% 1988, 26% avg. Peanuts good, 16% harvested, 3% 1988, 7% avg. Hay, livestock, pastures good.

SOUTH DAKOTA: Temperatures 4 to 13° below normal. Extremes 18°, 93°. Growing season precipitation below normal generally, 6.09 in. below normal to 2.27 in. above normal. Rainfall 1.05 in. south central, 1.06 in. southwest. Northwest, southeast little or no rain.

Days suitable for fieldwork 5.3. Topsoil 16% critically short, 42% short, 42% adequate. Subsoil moisture: 40% critically short, 46% short, 14% adequate. Corn fair to good, sorghum fair to poor, soybean good to fair. Major activities: Fall seeding, harvesting silage, fall soil preparation, beginning row crop harvest, working cattle, hauling manure.

TENNESSEE: Stationary front moved out of east 12th. Another front at midweek set off showers, thundershowers Statewide. Temperatures slightly below normal west, slightly above normal east. Rainfall above normal, especially southwest, northeast.

Days suitable for fieldwork 4.5. Soil moisture 2% very short, 20% short, 67% adequate, 11% surplus. Corn 80% mature, 64% 1988, 78% avg.; 80% harvested silage, 81% 1988, 81% avg.; 14% harvested grain, 14% 1988, 24% avg. Burley tobacco 78% harvested, 75% 1988, 78% avg. Dark fired 90% harvested, 74% 1988, 77% avg. Dark air cured 88% harvested, 72% 1988, 76% avg. Tobacco harvest nearing completion. Grain harvests getting underway.

TEXAS: Wet, unseasonably cool weather. Two cold fronts ushered in strong cool surges, upper air disturbances interacted with cool air produce strong overrunning, rain, thunderstorms. Dry south, Lower Valley missed out substantial amounts. Temperatures below normal across State. Rainfall above normal west, north central, below normal east, south.

Crops: Corn producers little progress with harvest, heavy to isolated rains fell over Plains. Isolated hail, high winds knocked some fields down. Harvest completed Blacklands. Scattered little to slow final harvest activities. Grain sorghum show good potential Plains; return

to warmer, open weather needed. Fields rapidly turning color before early week cold front. Harvest slowed by rain Low Plains, Cross Timbers. Sorghum 100% headed, 100% 1988, 100% avg. Cotton hurt most Plains by cooler weather. Bolls just started to open rapidly most fields when cooler weather virtually stopped progress. Return to better growing conditions needed very soon for cotton reach potential. Harvest moved ahead Blacklands, central minor delays. Harvest continued Upper Coast. Cotton setting bolls 100%, 100% 1988, 100% avg. Small grain seeding halted most week Plains. Moisture Plains, Cross Timbers help planting conditions. Planting increase ground dries out. Land preparations continued much Blacklands, central. Rice producers continue harvest activities. Growth second crop good. Dryland peanuts Low Plains, Cross Timbers much needed boost from rains. Irrigated fields continued very good. Light harvest beginning south central. Dryland fields suffered from dry conditions. Harvest begin soon central, Blacklands. Soybean harvest Upper Coast moved ahead between light showers. Showers may help drier, later varieties. Harvest progress northeast. Leaves beginning to drop early fields Plains. Additional moisture could help later fields. Light hail damage. Other crops: Peanuts harvested 4%, 6% 1988, 8% avg. Soybeans harvested 27%, 27% 1988, 15% avg. Sunflowers harvested 11%, 12% 1988, 9% avg. Oats planted 10%, 14% 1988, 12% avg.

Commercial Vegetables: Rio Grande Valley, fall crops doing well under steady irrigation. Planting other crops continued. San Antonio-Winter Garden, carrot, cabbage, cucumber planting continued. Land preparations continued. East Texas, sweetpotato harvest beginning wind down many fields. Planting operations continued. High Plains, harvest delayed by wet conditions many fields. Yields good so far. Trans-Pecos, pepper harvest begin soon. Land preparations continued. Pecan harvest begin by next week south. Shuck split occurring Hill Country. Insects defoliated many trees east. Trans-Pecos crop still looks good.

Range and Livestock: Rainfall Plains help improve conditions. Rain fell Trans-Pecos, Hill Country, helping green things up some. Hay supplies declining parts south. Supplemental feeding necessary most summer. Livestock varied with amount available forage, livestock basically good.

UTAH: Temperatures 4° below normal except in Dixie area where they were 2° below normal. Precipitation light throughout the State except Dixie area with none.

Days suitable for fieldwork 6.9. Soil moisture 98% short, 2% adequate. Fall seeding continued. Winter wheat 58% seeded, 45% 1988, 56% avg. Alfalfa hay third cutting 84% complete, 74% 1988, 56% avg. Field corn dent stage 74%, 80% 1988, 67% avg.; mature 40%, 46% 1988, 38% avg. Corn silage harvested 25%, 40% 1988, 28% avg. Apples picked 17%, 16% 1988, 17% avg. Onions harvested 38%, 45% 1988, 30% avg. Potatoes harvested 16%, 17% 1988, 15% avg. Cattle moved from summer range 18%, 14% 1988, 6% avg. Sheep moved from summer range 20%, 11% 1988, 5% avg. Green River melon growers holding melon days festival. Sweet corn, other late season vegetable harvests winding down. Range, pasture feed supply continued short. Range cattle fair.

VIRGINIA: Warm, dry followed by warm, wet. Temperatures 7° above normal. Extremes 56°; 97°. Rainfall zero to 3.00 in.

Days suitable for fieldwork 4.5. Topsoil 36% short, 48% adequate, 16% surplus. Soybean 10% fair, 62% good, 28% excellent. Pastures 20% fair,

48% good, 32% excellent. Livestock 7% fair, 62% good, 31% excellent. Peanuts fair to good. Corn 91% dented, 83% 1988, 86% avg.; 69% mature, 71% 1988, 70% avg.; for grain 30% harvested, 8% 1988, 21% avg.; silage 42% harvested, 56% 1988, 49% avg. Flue-cured tobacco 75% harvested, 44% 1988, 58% avg. Fire-cured 95% harvested, 73% 1988, 71% avg. Burley 67% harvested, 40% 1988, 48% avg.

WASHINGTON: Temperatures normal to 4° below normal, east; 2 to 7° below normal, west. No precipitation.

Days suitable for fieldwork 7.0. Soil moisture 40% short, 60% adequate. Range, pasture 30% short, 70% adequate. Hay, other roughage 5% short, 85% adequate, 10% surplus. Cereal grain harvests nearly complete. Winter wheat harvested 99%, 100% 1988, 100% avg. Spring wheat harvested 99%, 100% 1988, 100% avg. Barley harvested 98%, 100% 1988, 100% avg. Dry weather enabled farmers to make progress seeding fall crops, applying fertilizers, and weeding. Winter wheat planted 35%, 50% 1988, 46% avg. Winter wheat emerged 21%. Progress of other harvests: Potatoes 33%, 36% 1988, 33% avg.; dry beans 15%, 51% 1988, 52% avg.; corn silage 39%, 34% 1988, 33% avg.; corn grain 1%, 5% 1988, 5% avg.; third cutting alfalfa hay 85%, 80% 1988, 86% avg. Harvests of apples, pears, carrots, tomatoes, onions, sweet corn, lettuce, broccoli, cauliflower, squash, cucumbers, and watermelons continued.

WEST VIRGINIA: Temperature 69°, 2 to 6° above normal. Extremes 53°; 90°. Precipitation 2.20 in.; 0.45 in. above normal. Flooding in southwest 15th.

Days suitable for fieldwork 3.4. Soil moisture 84% adequate, 16% surplus. Corn good to excellent; 100% silked, 84% dough stage, 18% mature. Oats good, harvest complete. Tobacco fair, topping complete; 55% harvested. Hay good; 2nd cut 82%, 3rd cut 37% complete. Apples fair; harvest continues. Farm activities: Harvesting hay, tobacco, corn silage; clipping pastures, machinery repair, marketing cattle.

WISCONSIN: Temperature 56°, 4° below normal. Extremes 27°; 85°. Precipitation trace to 0.60 in. Light frost, little crop damage.

Days suitable for fieldwork 5.9. Soil moisture 30% short, 62% adequate, 8% surplus. Pasture 77% of normal, 47% 1988, 78% avg. General condition of crops 3% poor, 11% fair, 79% good, 7% excellent. Corn 1% poor, 6% fair, 76% good, 17% excellent; maturity lags; in dent 70%, 87% 1988, 78% avg.; 19% mature, 61% 1988, 42% avg. Corn silo filling 6% complete, 50% 1988, 25% avg. Some 3rd crop hay made, yields very short to good. Soybean 4% fair, 85% good, 11% excellent; 43% turned, 70% 1988, 63% avg.; 11% shedding leaves, 43% 1988, 28% avg. Fall plowing 5% complete, 10% 1988, 7% avg. Cranberry harvest starting.

WYOMING: Temperatures below normal. Precipitation generally above normal.

Days suitable for fieldwork 5.0. Topsoil 59% short, 41% adequate. Oats 5% mature, 5% 1988, 10% avg.; 95% harvested, 95% 1988, 90% avg. Dry beans 45% windrowed, 90% 1988, 75% avg.; 15% combined, 55% 1988, 55% avg. Corn 5% milk stage, 0% 1988, 0% avg.; 30% dough, 15% 1988, 15% avg.; 40% dented, 45% 1988, 55% avg.; 20% mature, 35% 1988, 25% avg.; 5% harvested, 5% 1988, 5% avg. Corn silage 45% harvested, 55% 1988, 55% avg. Sugarbeets small amount dug, 5% 1988, 10% avg. Potatoes 30% harvested, 25% 1988, 45% avg. 1990 winter wheat 65% seeded, 50% 1988, 70% avg.; 30% emerged, 10% 1988, 35% avg. Most fair to good. Alfalfa third cutting 50% complete, 60% 1988, 50% avg. Hay, roughage 25% very short, 40% short, 35% adequate. Prospects for winter grazing poor to fair. Livestock feed obtained from pastures 90%. Livestock producers plan to winter less cattle, sheep than a year ago.

International Weather and Crop Summary

September 10-16, 1989

HIGHLIGHTS

USSR ... In Western USSR, drier weather in the south helps winter grain planting and summer crop harvests. In the New Lands, mostly dry weather favors rapid spring grain harvesting.

EUROPE ... Rain causes fieldwork delays across the west and north. Dryness returns to central and southern Spain.

SOUTH ASIA ... Showers benefit immature crops in central and eastern India and raise reservoir levels for wheat planting.

EASTERN ASIA ... Typhoon Sarah slams Taiwan on the 11th, followed by Tropical Storm Vera in Zhejiang on the 15th. Rain causes harvest delays in Manchuria.

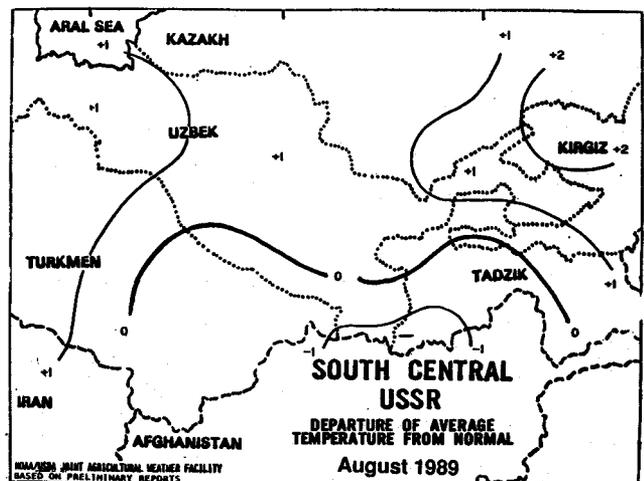
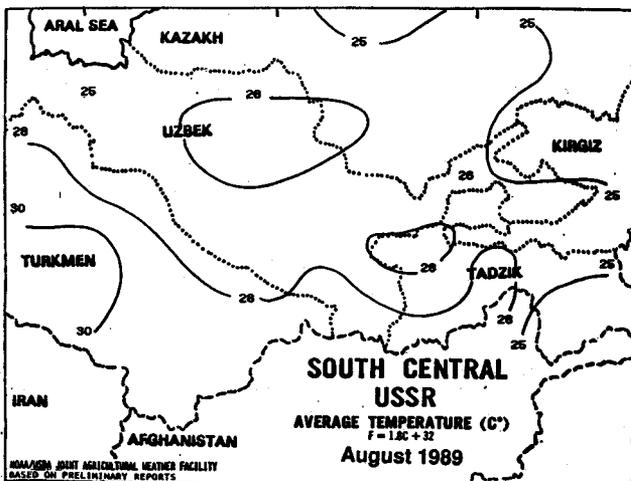
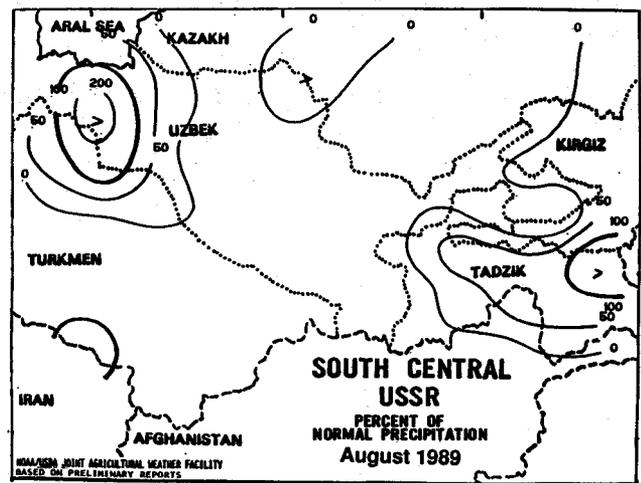
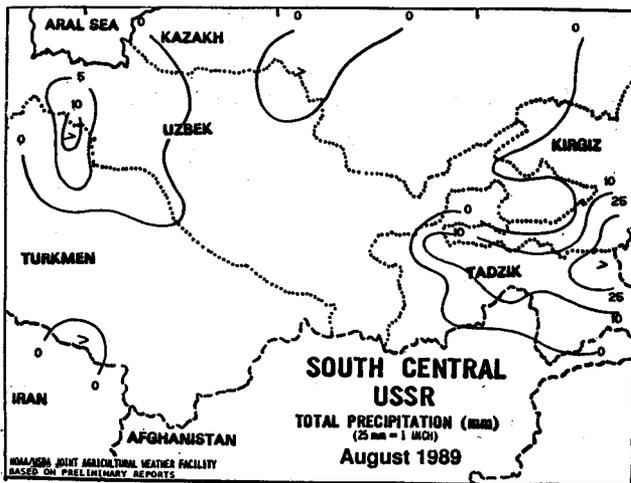
SOUTHEAST ASIA ... Variable showers and warm weather cover Thailand. Inundating rain persists in northwestern Philippines.

SOUTH AMERICA ... Heavy rain inundates southern Brazil. Beneficial, mostly light showers promote fieldwork for summer crop planting in Argentina.

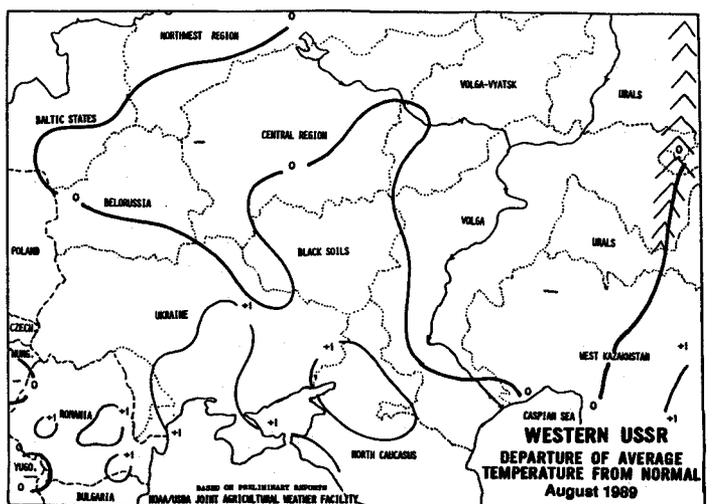
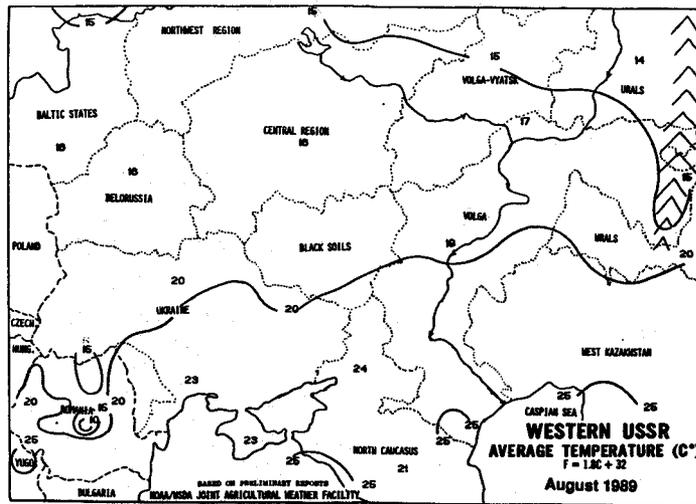
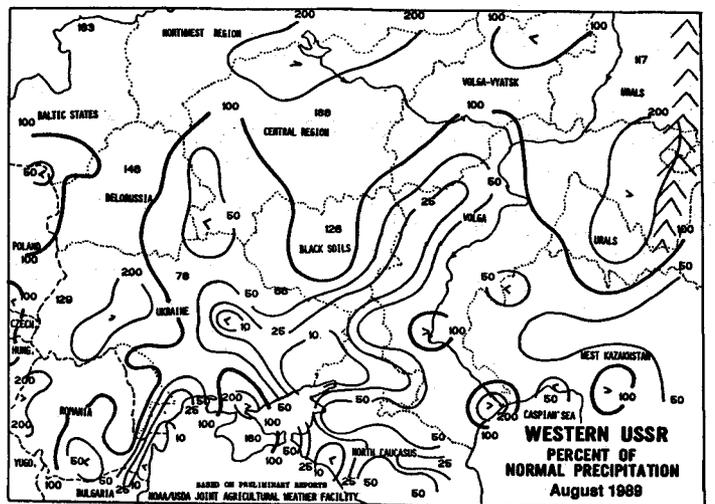
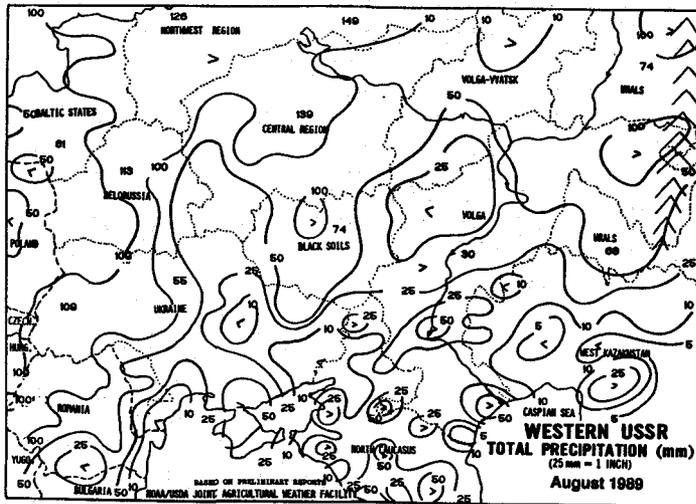
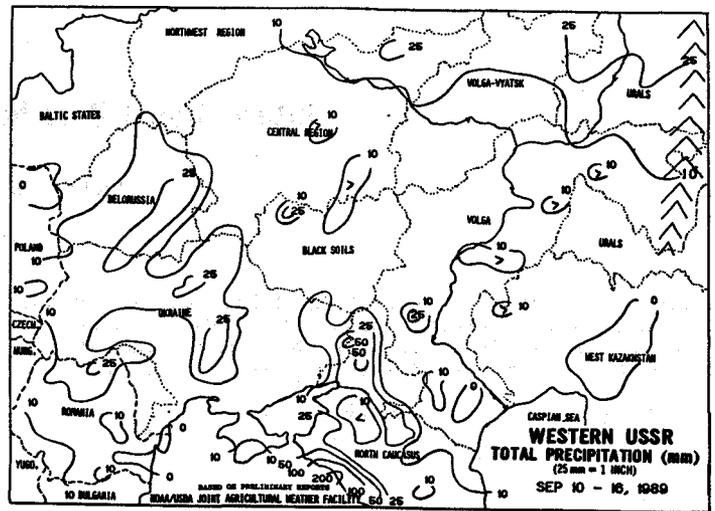
AUSTRALIA ... Rain favors vegetative growth of winter grains in the south.

CANADA ... Much needed drier weather aids late harvesting.

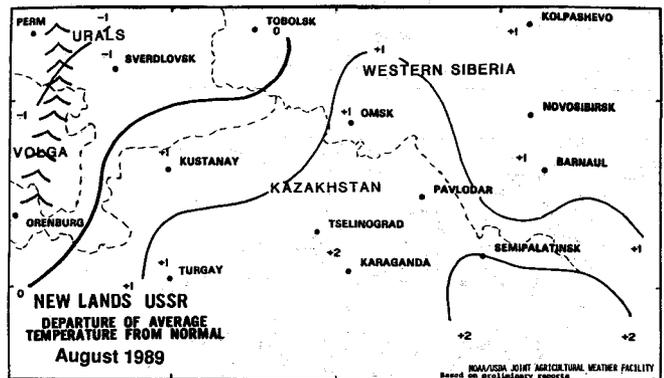
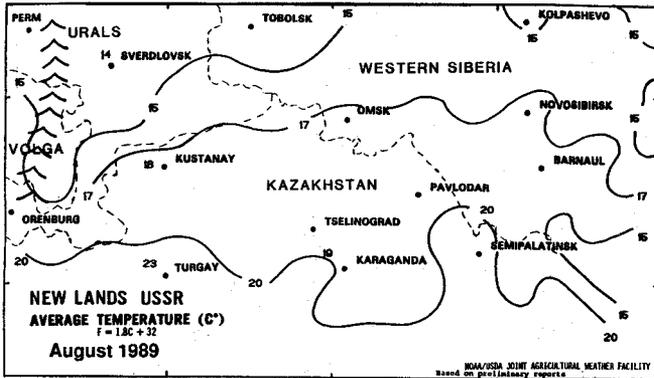
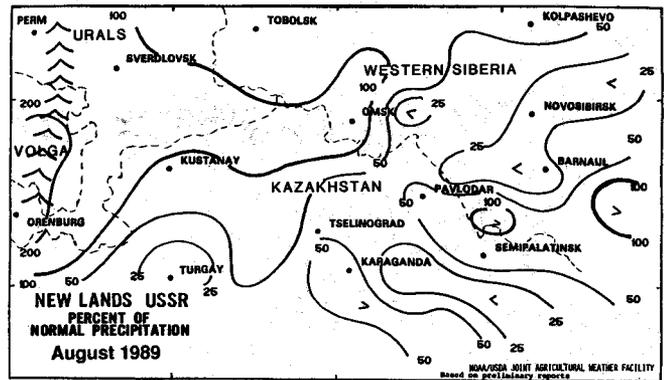
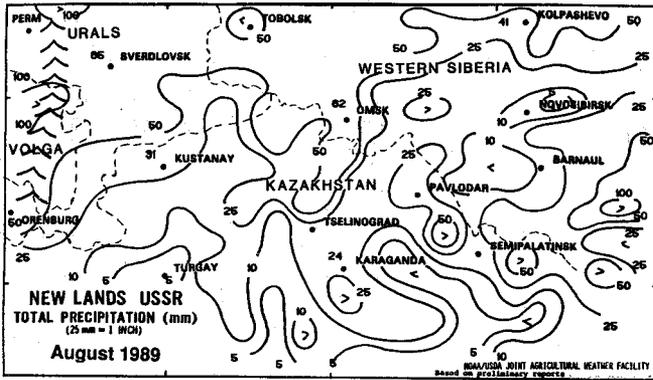
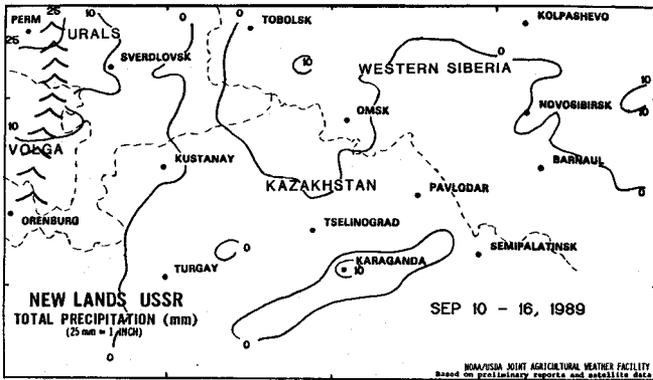
MEXICO ... Highly variable rainfall favors immature crops but allows some harvesting.



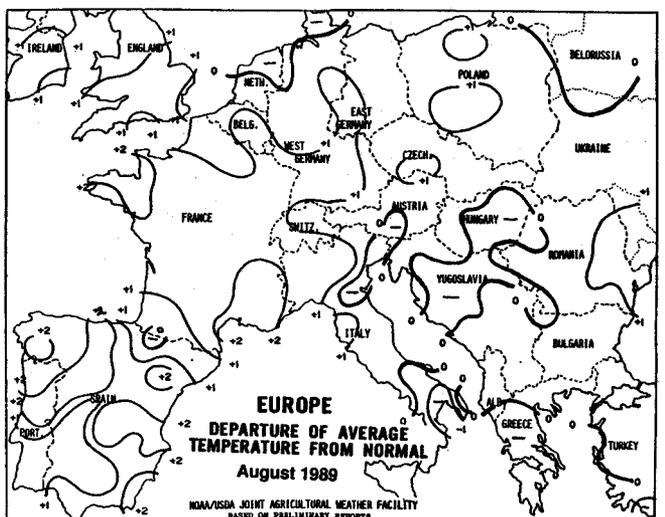
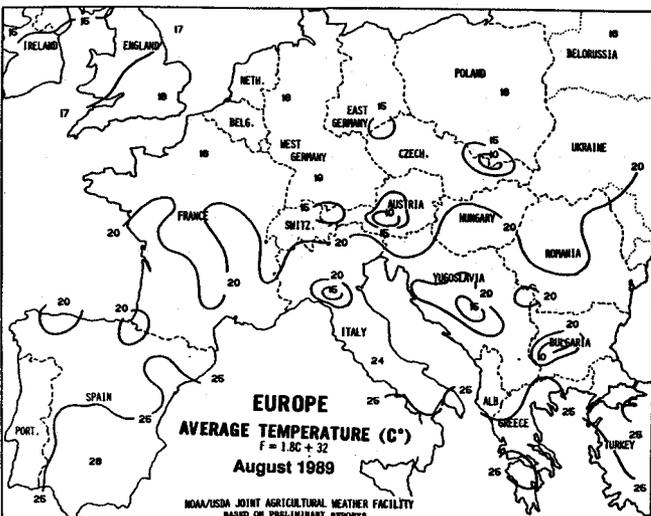
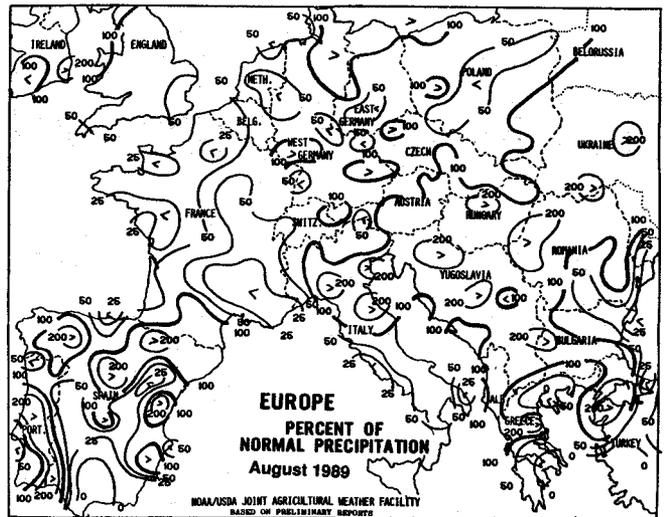
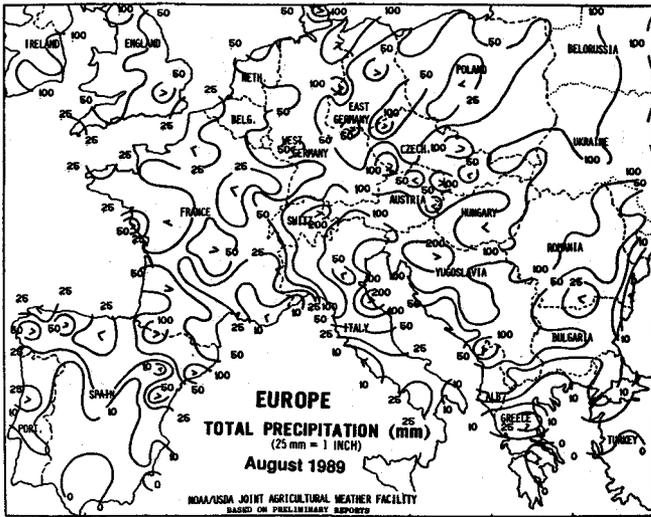
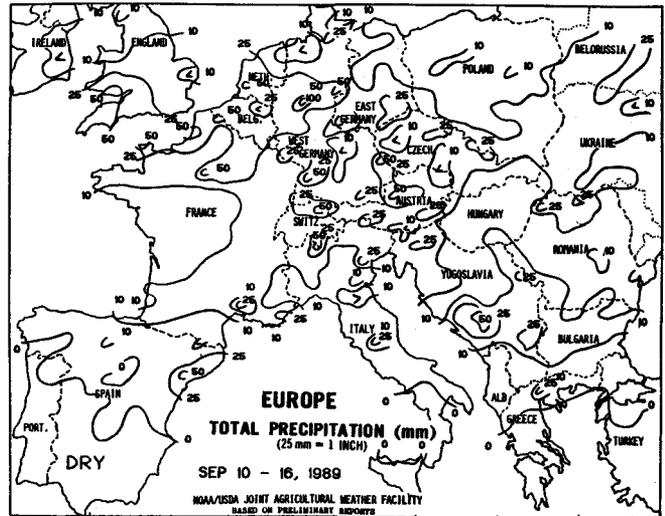
WESTERN USSR ... Several days of dry weather in the southern Ukraine helped fieldwork in preparation for winter grain planting and summer crop harvests. September is the optimum month for planting winter grains in the Ukraine, lower Volga Valley, and the North Caucasus. Abundant late August and early September rains in these areas provided favorable planting moisture. Light to moderate rain (10-60mm) over the central Ukraine and the North Caucasus caused some fieldwork delays. Frequent light rain over Belorussia and the western Ukraine slowed sugar beet harvesting. Dry weather over the Central Region, Black Soils Region, the Volga Valley, and the Volga Vyatsk allowed winter grain planting to near completion and helped late harvest activities. In August, well-below-normal precipitation over the eastern two-thirds of the Ukraine and North Caucasus helped the small grain harvest. While adequate soil moisture reserves favored filling corn in the North Caucasus, soil moisture was limited in the southern Ukraine where dry weather persisted since early July. Below-normal precipitation in the Volga Valley reversed July's wet weather pattern, improving conditions for drydown of spring grains and for harvest.



NEW LANDS ... Dry weather continued to cover most of the region, favoring rapid spring grain harvesting. Weekly average temperatures were 2-4 degrees Celsius (C) above normal over the western two-thirds of the region and 2-4 degrees C below normal in extreme eastern areas. Reports indicated about 90 percent of grains and pulses (excluding corn) were harvested over all of USSR by September 11. During August, unseasonably warm, dry weather continued over Kazakhstan and West Siberia. Although the dry weather helped early spring grain harvesting in Kazakhstan, it stressed filling spring grains in the eastern portion of West Siberia. In south-central USSR cotton areas, cotton bolls were maturing later than usual because wet, cold weather in the spring hampered crop emergence and establishment. Following a brief period of unusually cold weather in late August and early September, unseasonable warm, dry weather this past week accelerated boll maturation. Weekly average temperatures were 2-6 degrees C above normal over most cotton areas.



EUROPE ... Moderate to heavy rain (10-40mm, with scattered amounts in excess of 40mm) fell over much of northwestern and north-central Europe, ending more than 1 week of favorable harvest weather. In the east, scattered light to moderate rain (5-20mm, with isolated rainfall greater than 20mm) continued harvest and early winter grain planting delays. Mostly dry weather returned to central and southern sections of the Iberian Peninsula, allowing soils to dry following last week's heavy rain and flooding. During August, below-normal rainfall persisted over much of northern and western Europe, leaving soils drier than normal for emergence and establishment of winter grains. Rainfall in southeastern Europe was above normal. Mean temperatures for the month were near normal to above normal over much of the continent.

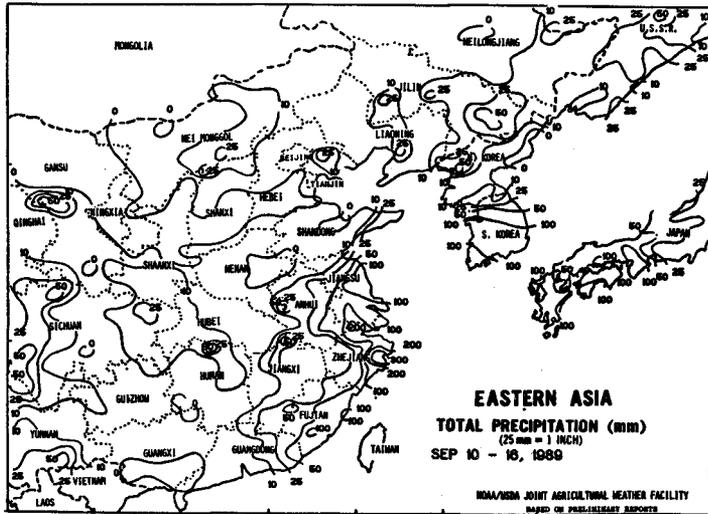


NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
BASED ON PRELIMINARY REPORTS

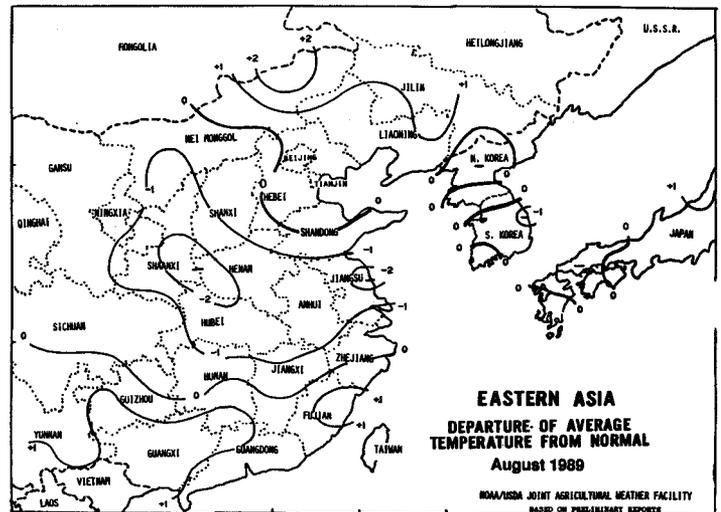
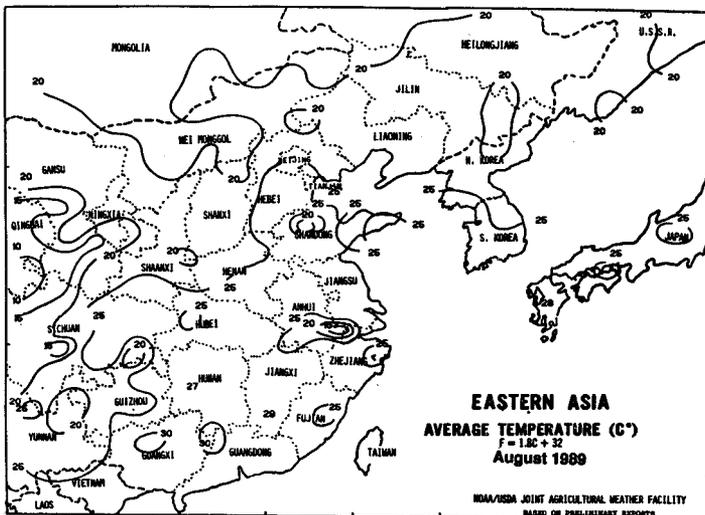
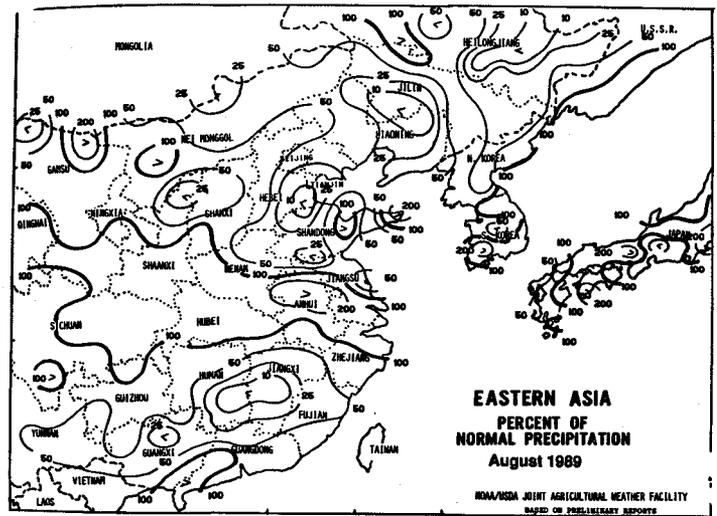
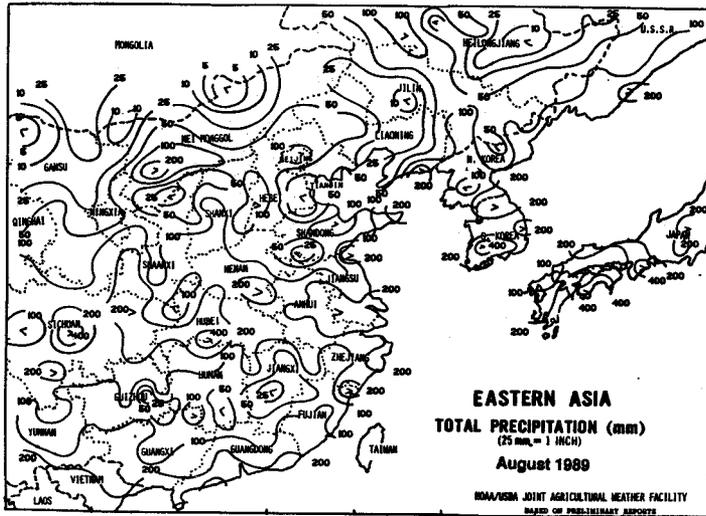
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
BASED ON PRELIMINARY REPORTS

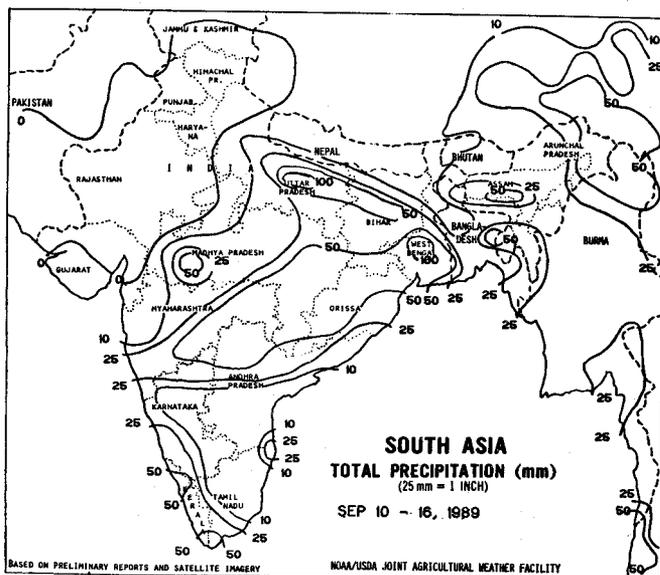
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
BASED ON PRELIMINARY REPORTS

NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
BASED ON PRELIMINARY REPORTS

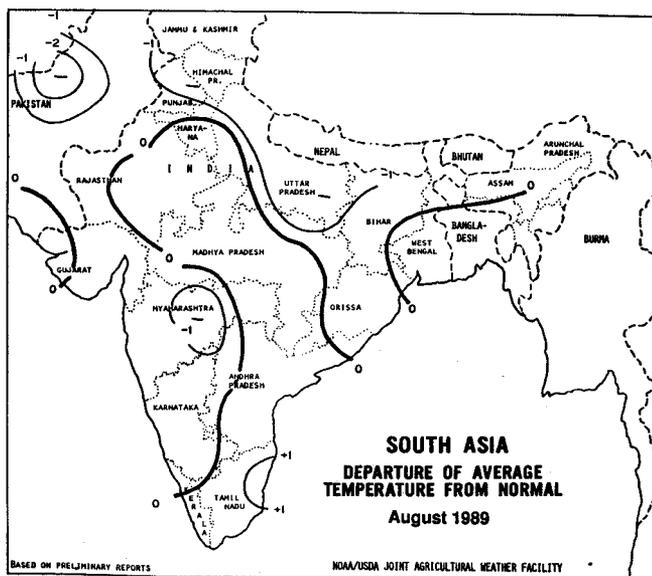
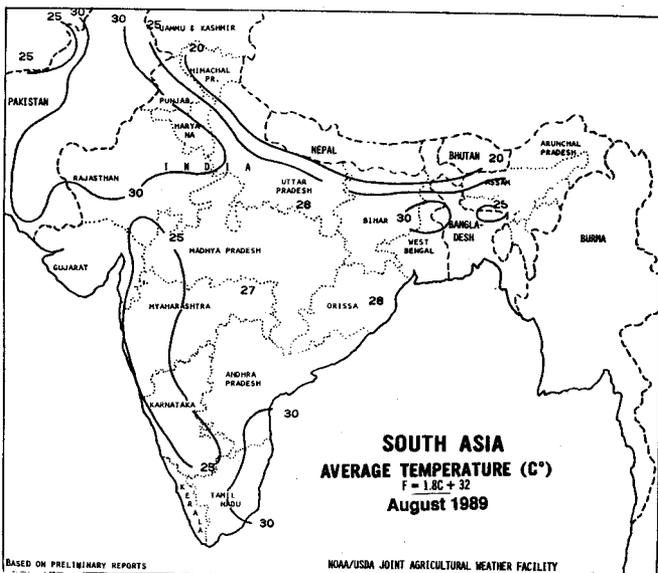
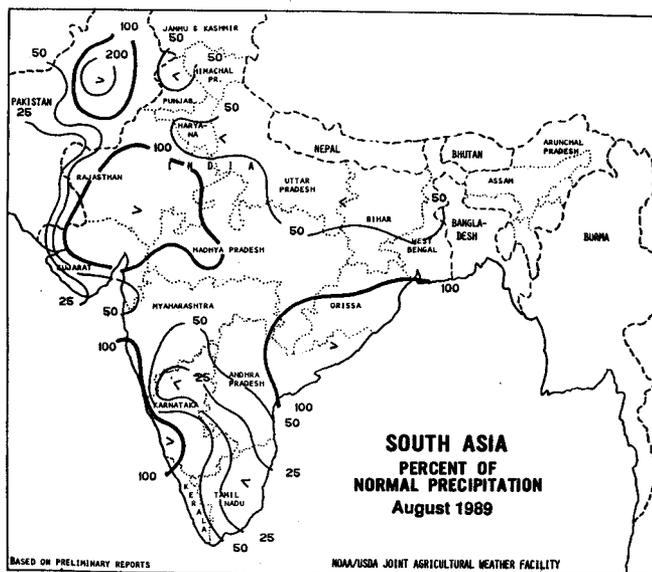
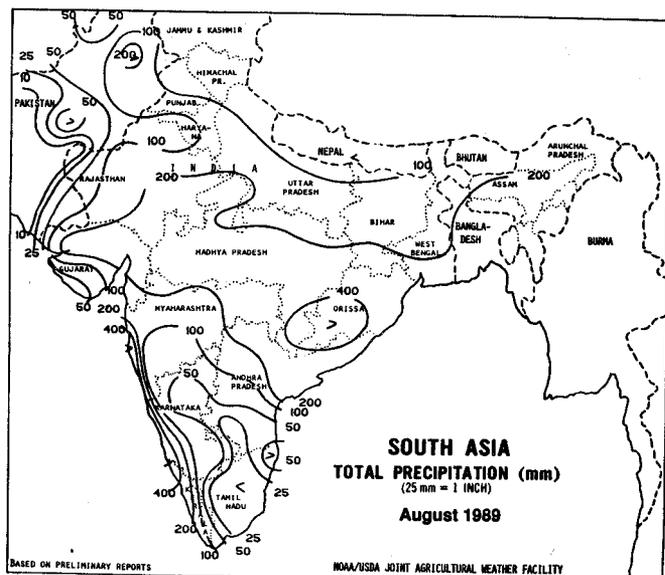


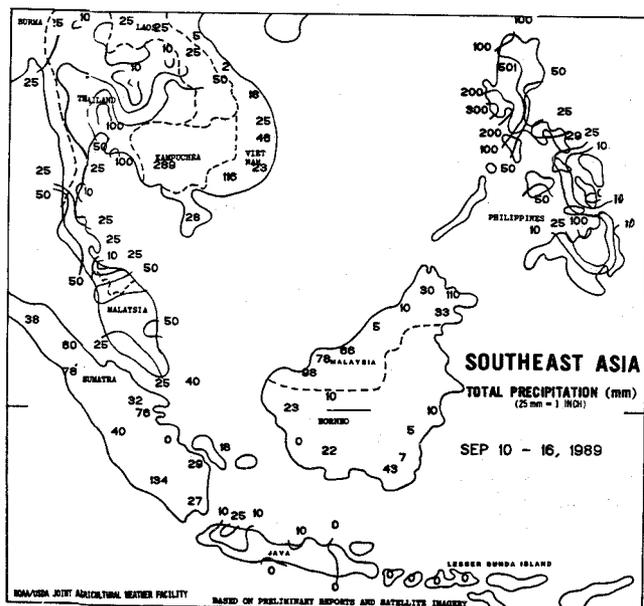
EASTERN ASIA ... Typhoon Sarah struck northern Taiwan on the 11th with winds in excess of 200km/hr and heavy rainfall (50-141mm), causing widespread crop and property damage. Sarah moved onshore in Zhejiang Province on the 13th as a tropical storm, followed by Tropical Storm Vera on the 15th, causing torrential rain (100-250mm, with isolated rainfall up to 343mm) and flood damage to mature single crop rice. Heavy rain (50-100mm, with scattered amounts in excess of 100mm) also caused continued flooding and single season rice harvest delays across South Korea and southern Japan. Scattered rain (10-70mm) over much of Manchuria caused delays in corn and soybean harvest. Drier-than-normal weather persisted during much of August in Manchuria and northern sections of the North China Plain, stressing many summer crops, especially those planted following winter wheat. Rainfall was also below normal over interior southern China and Taiwan, while above-normal rainfall covered much of the Yangtze Valley and sections of the Korean Peninsula and Japan.



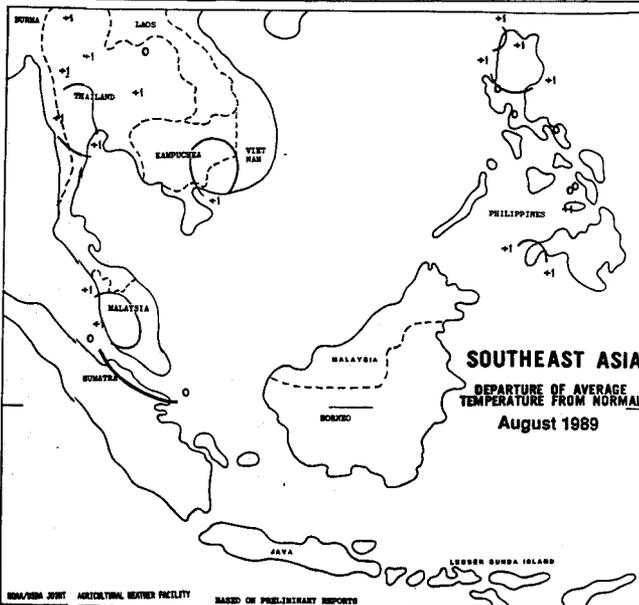
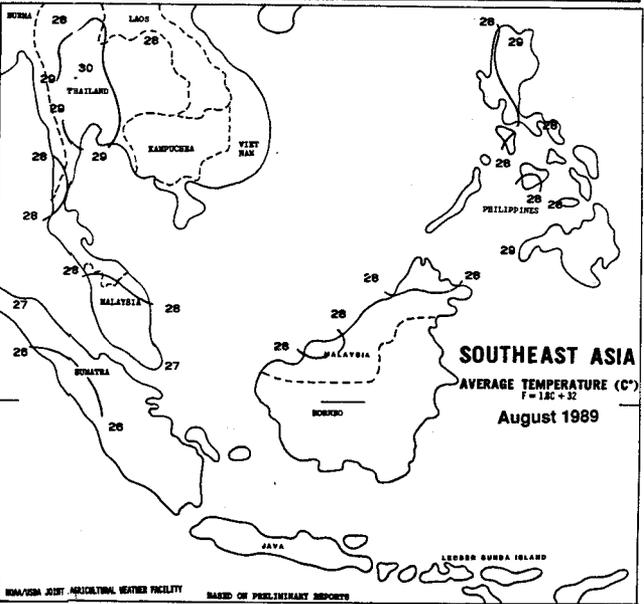
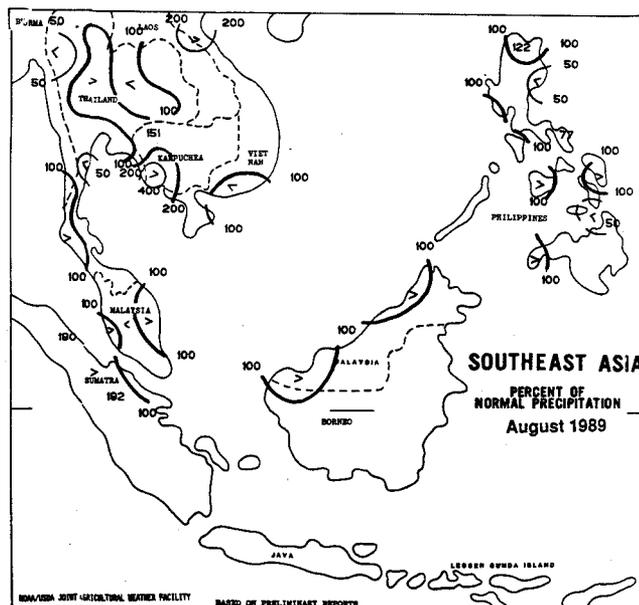
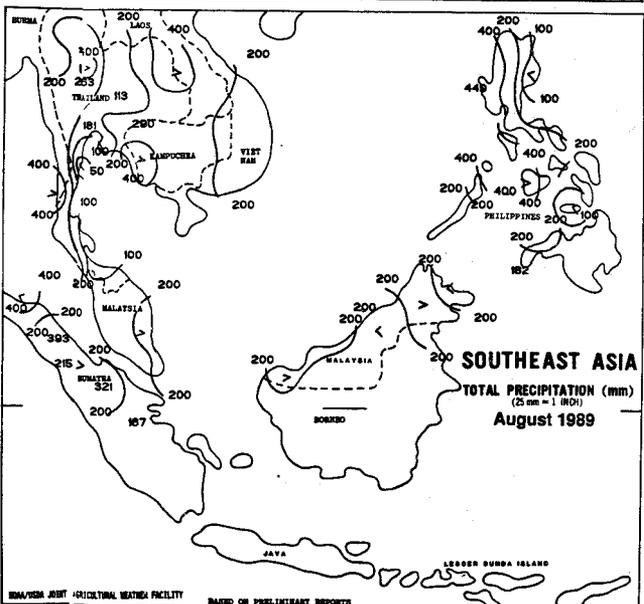


SOUTH ASIA ... Variable rainfall (12-50mm or more) returned to central and parts of northern India, benefiting immature summer crops and boosting irrigation reserves for fall plantings. Heavy rain (50-100mm or more) was especially beneficial in eastern Uttar Pradesh and Bihar for upcoming winter wheat planting, but dry, warmer-than-normal weather continued over the northwest as the monsoon continued its southeastward retreat. Variable showers (25-50mm or more) continued over the east, but dry weather returned to India's southern interior. In August, rainfall was near to above normal over northern Pakistan and much of northwestern, central, and eastern India. Dry weather dominated northwestern India early in the month, but showers the latter half of August were timely for reproductive crops. Rainfall was below normal over India's northern wheat region as well as the southern interior, limiting moisture for immature summer crops and upcoming fall plantings.

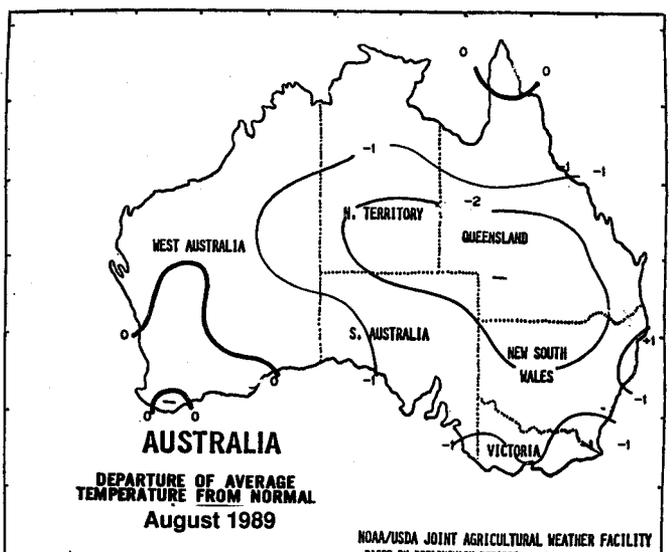
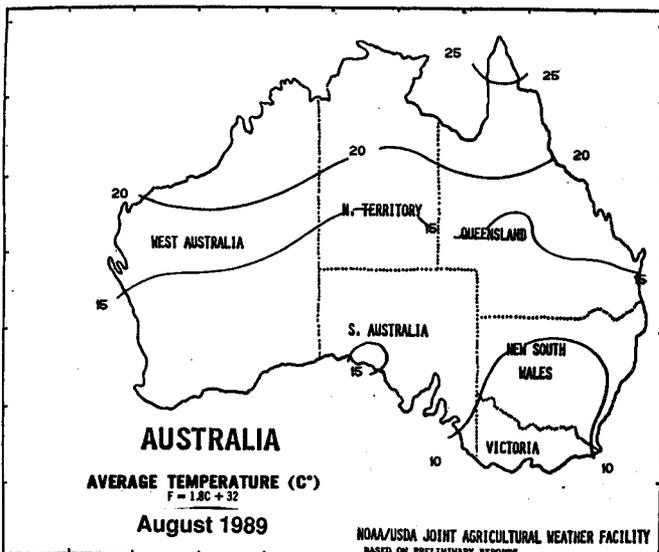
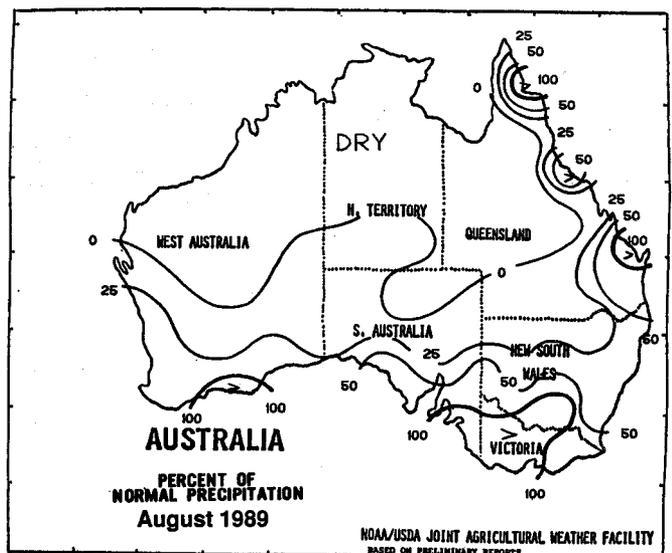
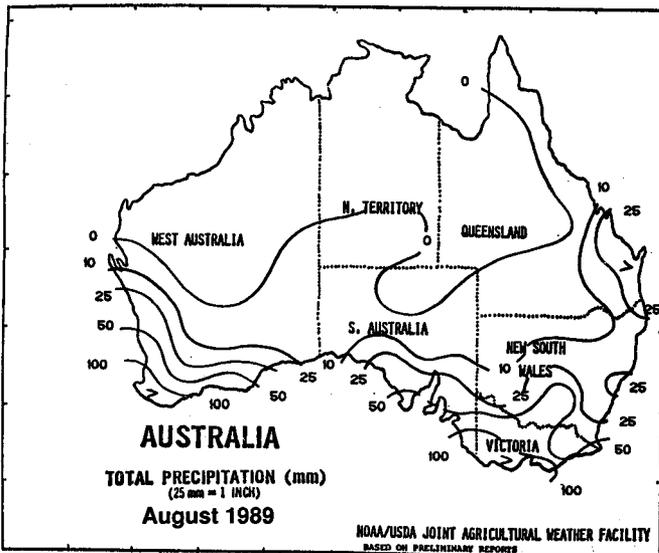
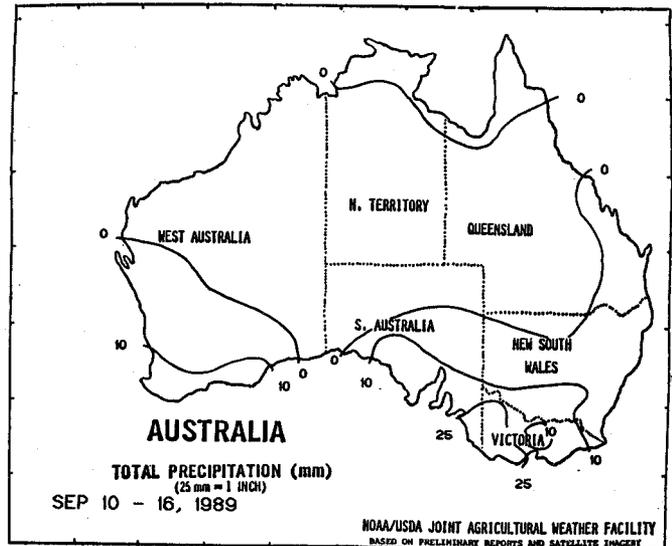




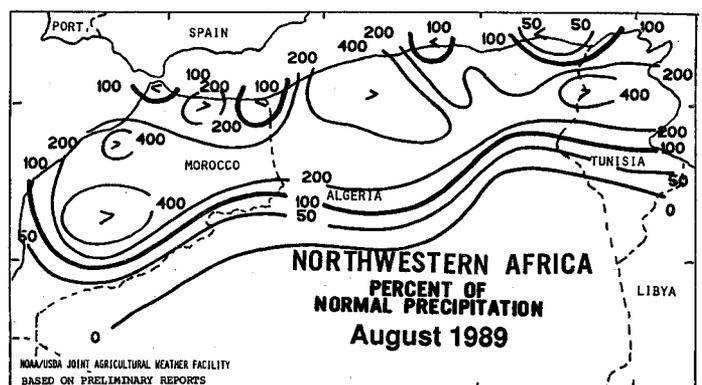
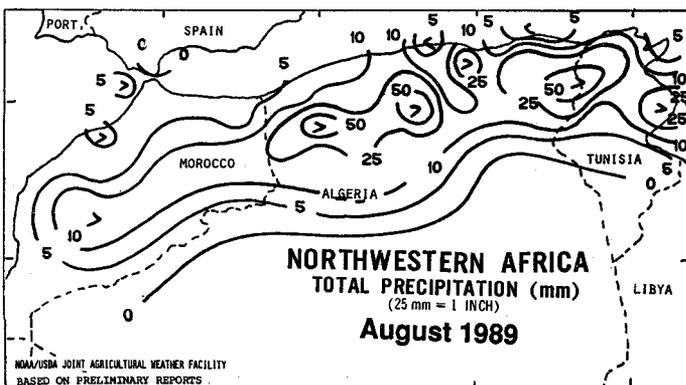
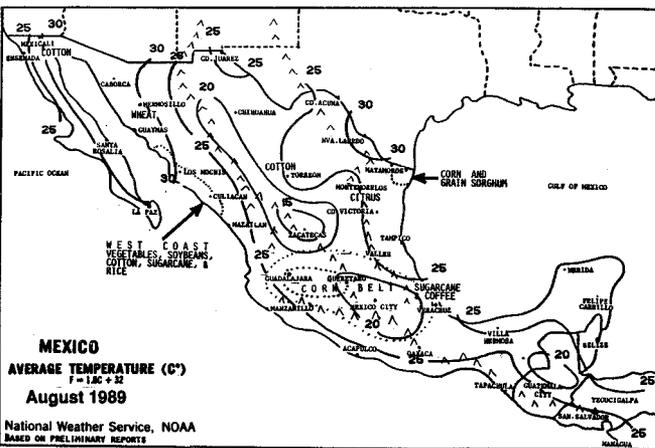
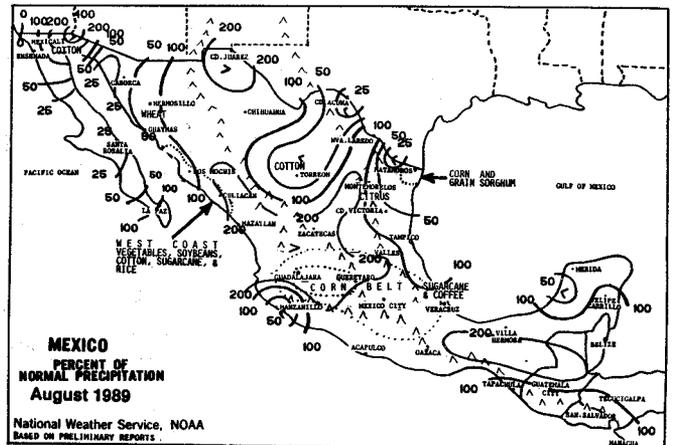
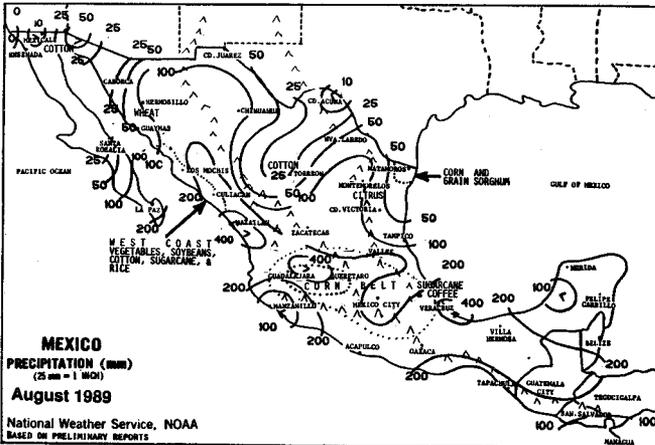
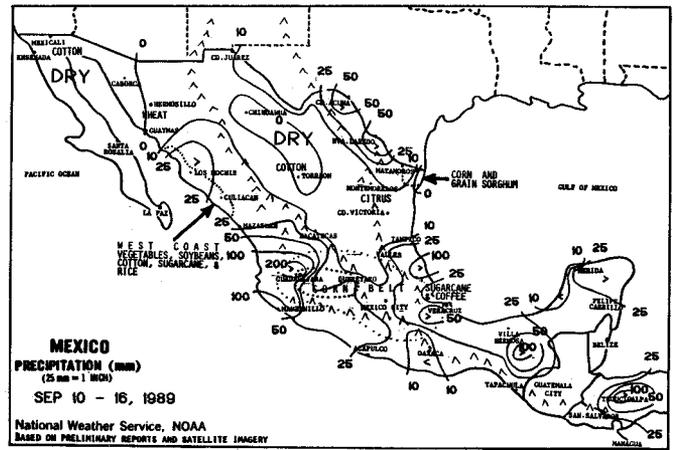
SOUTHEAST ASIA ... Pockets of drier-than-normal weather (25mm or less) covered parts of northwestern, northeastern, and central Thailand. Dry weather occurred in the western Khorat Plateau for the second week, reducing moisture reserves for immature crops. Moderate to heavy showers (25-50mm or more) continued elsewhere, but warm weather maintained high evaporation rates. In the Philippines, inundating rain (100-300mm or more) caused by nearby tropical storm activity covered western Luzon. In August, rainfall was erratic over all but northeastern Thailand and temperatures were generally above normal across the region. A drying trend since early August in northern Thailand has reduced moisture for normal development of rainfed grains. In the Philippines, frequent seasonable rainfall covered most crop regions, benefiting immature main season crops but causing local flooding in southwestern Luzon.

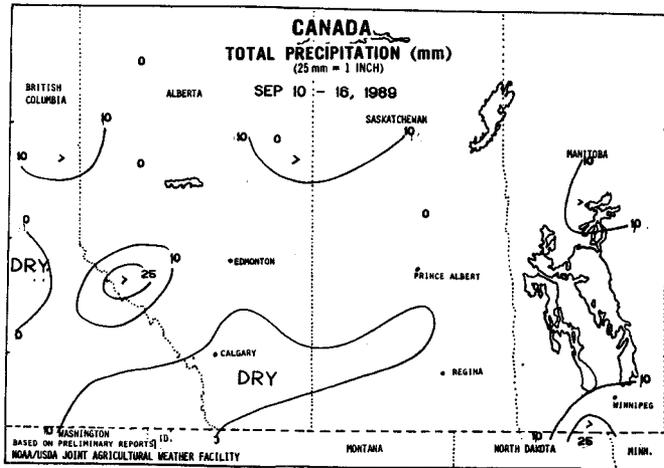


AUSTRALIA ... Light to moderate seasonal rain (5-20mm) fell over crop areas of Western and South Australia, favoring vegetative growth of winter grains. Heavy rain (20-30mm) covered much of Victoria, while mostly light rain (less than 10mm) fell in New South Wales. Queensland remained dry, continuing a drier-than-normal trend since early August. While subsoil moisture reserves in crop areas of Queensland remained adequate, topsoils were becoming too dry for actively vegetative winter grains. August precipitation was above normal in southeastern Australia and normal to below normal in the south and west. Below-normal temperatures during much of the month slowed early growth and development of winter grains in most crop areas.

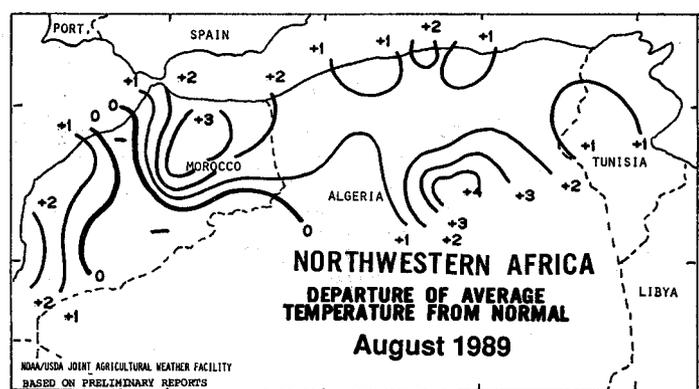
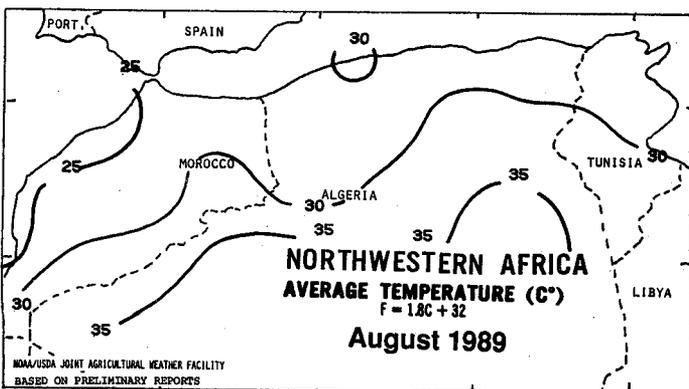
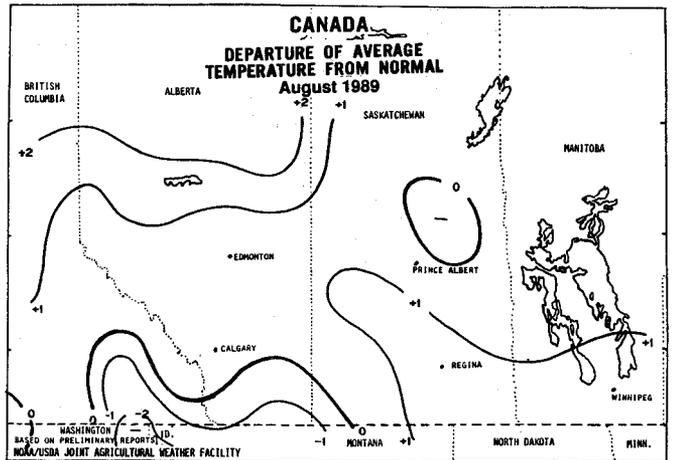
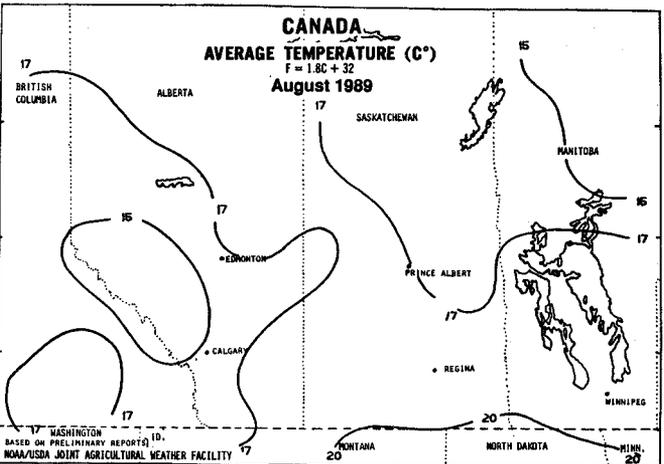
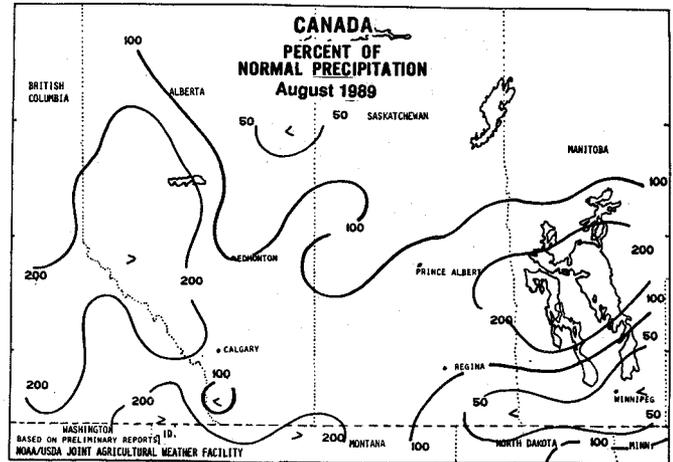
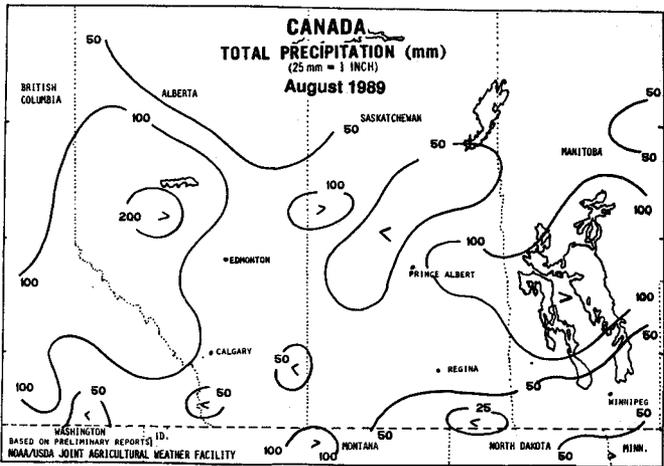


MEXICO ... Highly variable rainfall covered northern Mexico. Beneficial showers (25-50mm) fell along the Rio Grande Valley in the northeast, where August rainfall was well below average. Dry weather prevailed in north-central cotton and range areas which also were unfavorably dry during August. To the west, however, substantial August rainfall in the northwestern mountains and periodic showers along the west coast, which also occurred this past week, benefited agriculture and reservoirs. In the Southern Plateau, above-normal August rainfall provided favorable moisture for immature corn. Heavy rain (50-227mm) fell again this past week in the west, slowing early harvesting. Light to moderate showers (5-25mm) fell over the remainder of the corn belt. August rainfall was ample in most of the south but trended below average over much of the Yucatan Peninsula.





CANADA ... Much needed, drier weather covered the Prairies, bringing some relief to central and northern crop areas that have been unfavorably wet for mature grains and oilseeds. Rainfall early in the week ranged from 1 to 5mm across the north, but dry weather in the remainder of the week allowed harvests to proceed. Temperatures across the north, however, were near to below normal with periodic freezing temperatures, slowing the drying process. In August, periodic rain across the northern Prairie growing regions maintained favorable conditions for immature grains and oilseeds. By month's end, however, many areas had become too wet for harvesting and some decline in quality was likely. Wettest areas (100mm or more total August accumulation) were Alberta's Peace River Valley, northern Manitoba, and northwestern and northeastern Saskatchewan. Temperatures in August were near to slightly above normal.



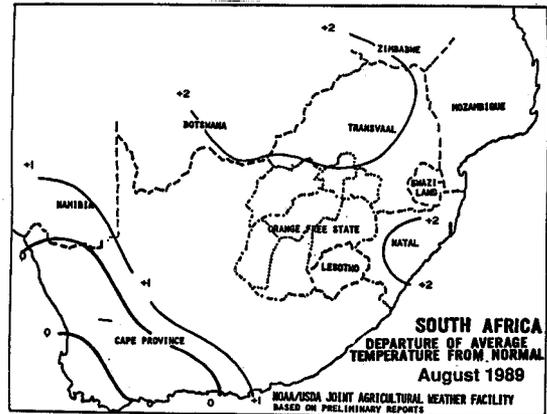
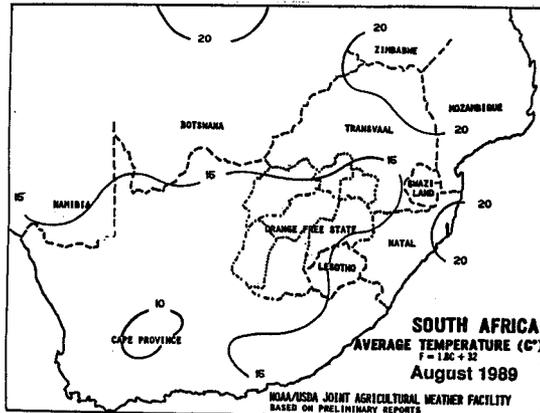
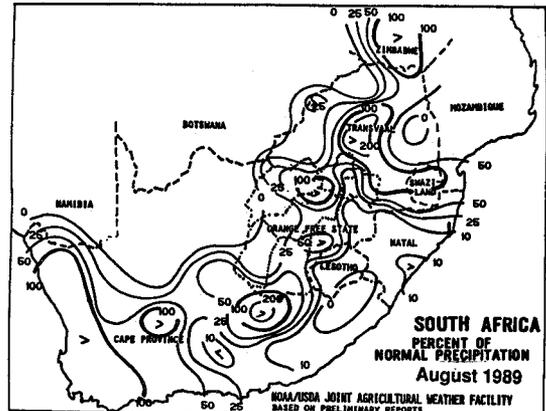
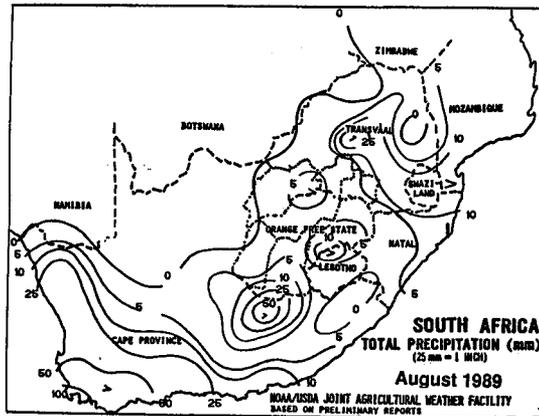
The Weekly Weather and Crop Bulletin (ISSN 0043-1974) is published weekly and jointly prepared by the U.S. Department of Commerce, National Oceanic and Atmospheric Administration (NOAA) and the U.S. Department of Agriculture (USDA). Publication began in 1872 as the Weekly Weather Chronicle. It is issued 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.

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Weather Service/Climate Analysis Center
Managing Editor Douglas Le Comte
Meteorologists Tom Heddinghaus (202) 382-1444
Vilhelm Bjerknes, Bob Stefanski, Wes Byrd, and Eyad Atallah

Subscriptions (202) 447-7917 . . Jeanette Hill

U.S. DEPARTMENT OF AGRICULTURE
Economics Management Staff
Editor Sharon Lee
National Agricultural Statistics Service
Agricultural Statistician . . . Tom Kurtz (202) 447-2157
World Agricultural Outlook Board
Agricultural Weather Analysts. . Ray Motha (202) 447-5716
Tom Puterbaugh, Mark Brusberg, and Jeff Andresen



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