

WEEKLY WEATHER AND CROP BULLETIN

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

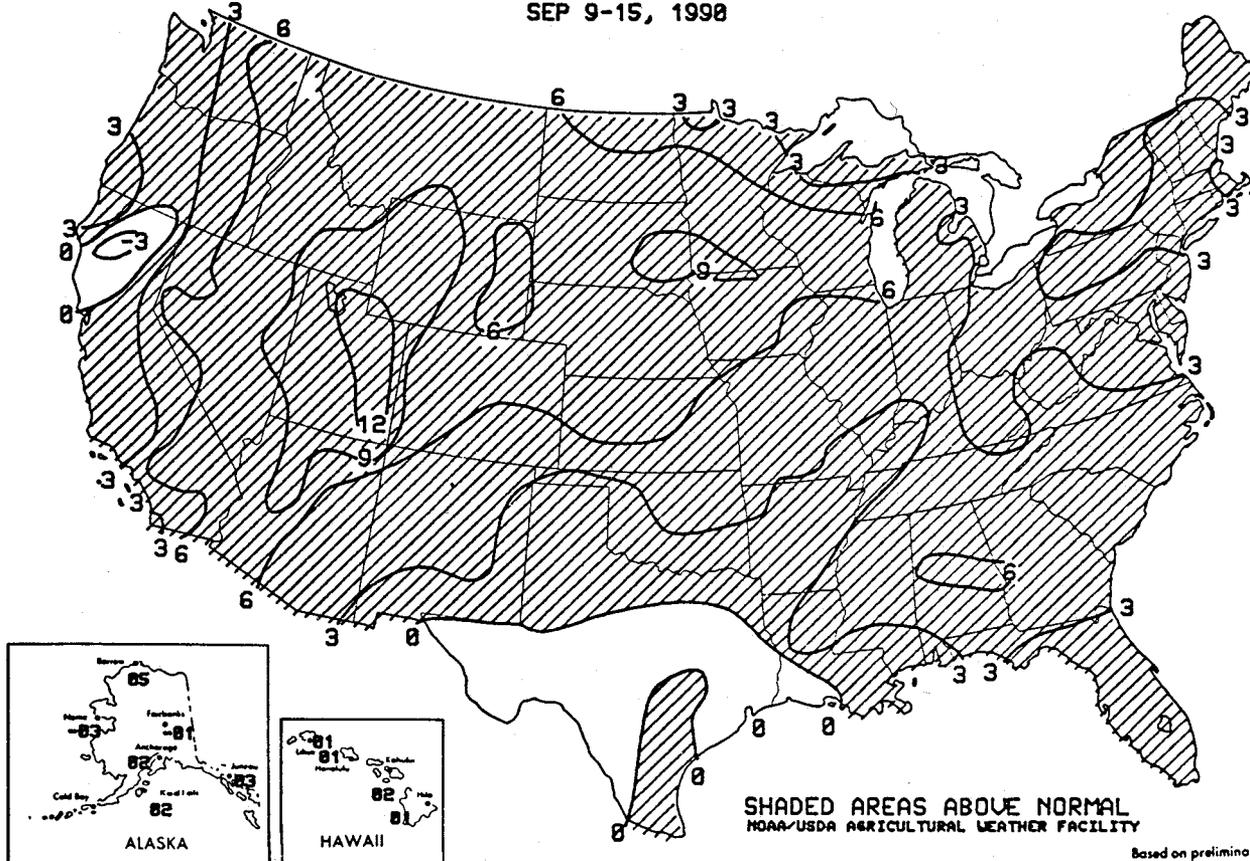
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DEPARTURE OF AVERAGE TEMPERATURE FROM NORMAL (°F)
SEP 9-15, 1990



HIGHLIGHTS

September 9 - 15, 1990

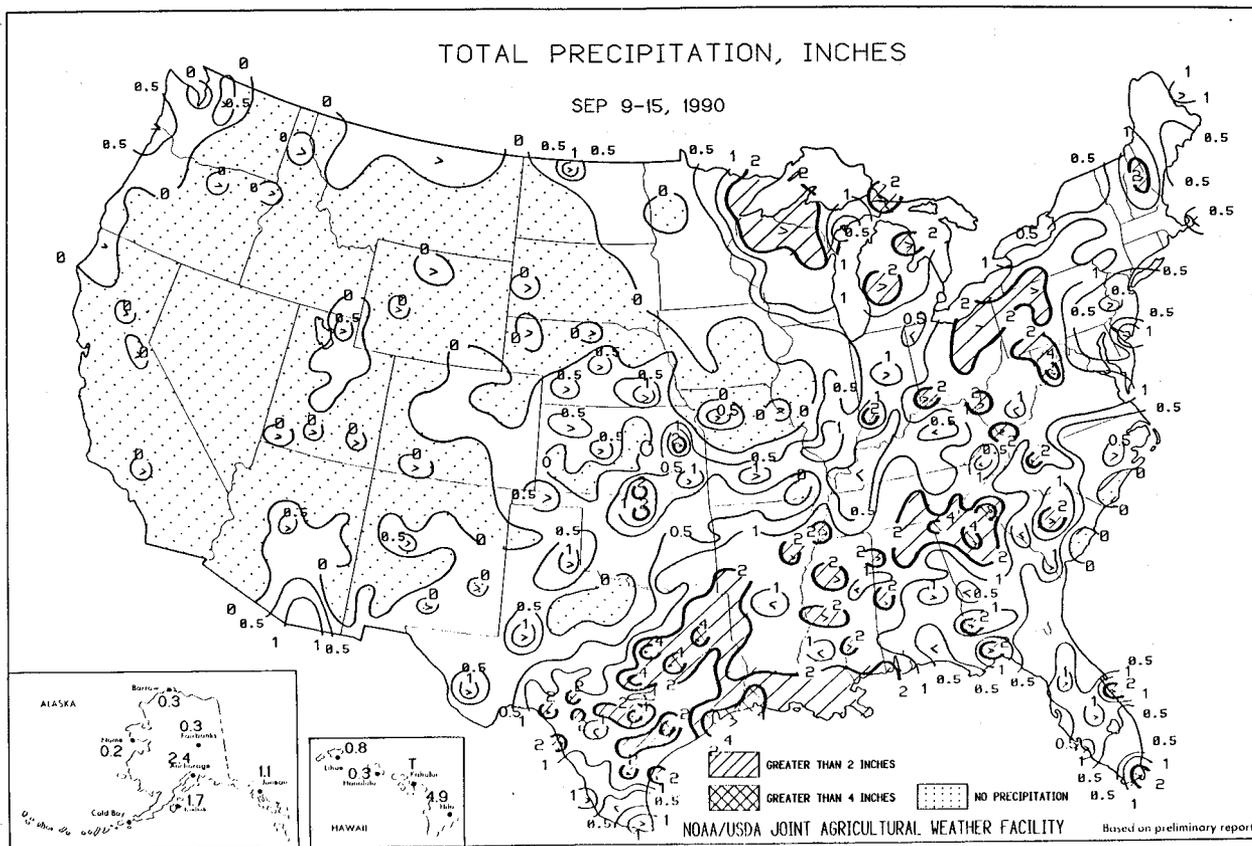
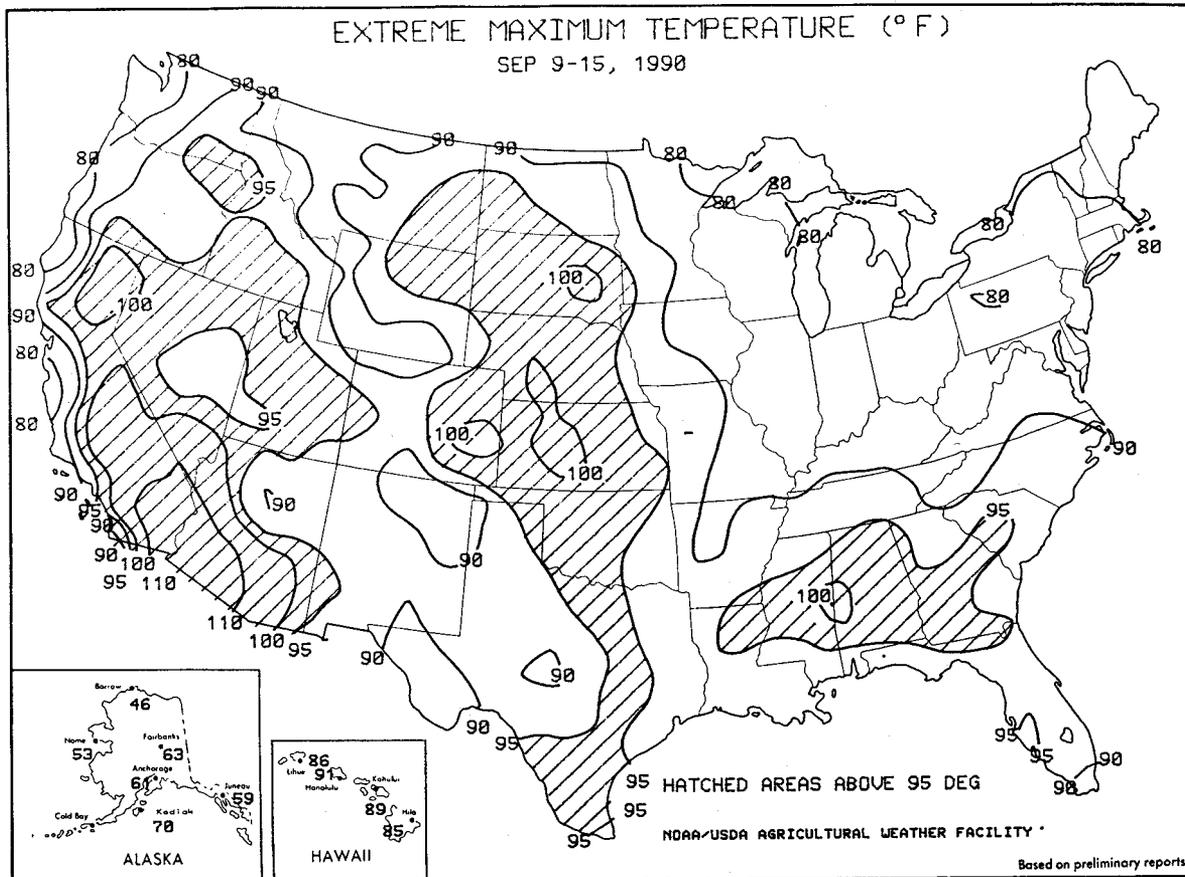
Hot and muggy weather continued to prevail over much of the Nation as temperatures averaged 6-12° F above normal from the **Intermountain Plateau** to the **Great Lakes**. Record-high temperatures for the date were set daily in the **Great Basin, Rockies, northern Plains, and Southeast** as 24 stations in **Utah** reported new records on the 12th. Scattered showers and thunderstorms continued to develop in the humid air over the **central and southern Plains** to the **Atlantic coast** as severe thunderstorms brought locally heavy rains across the **South**. Severe thunderstorms also developed along a stalled frontal system and soaked the **Great Lakes** with drenching rain. Dry conditions remained in the **West** and over much of the **northern Plains**, while persistent showers caused flooding in **eastern Puerto Rico** and **southern Alaska**.

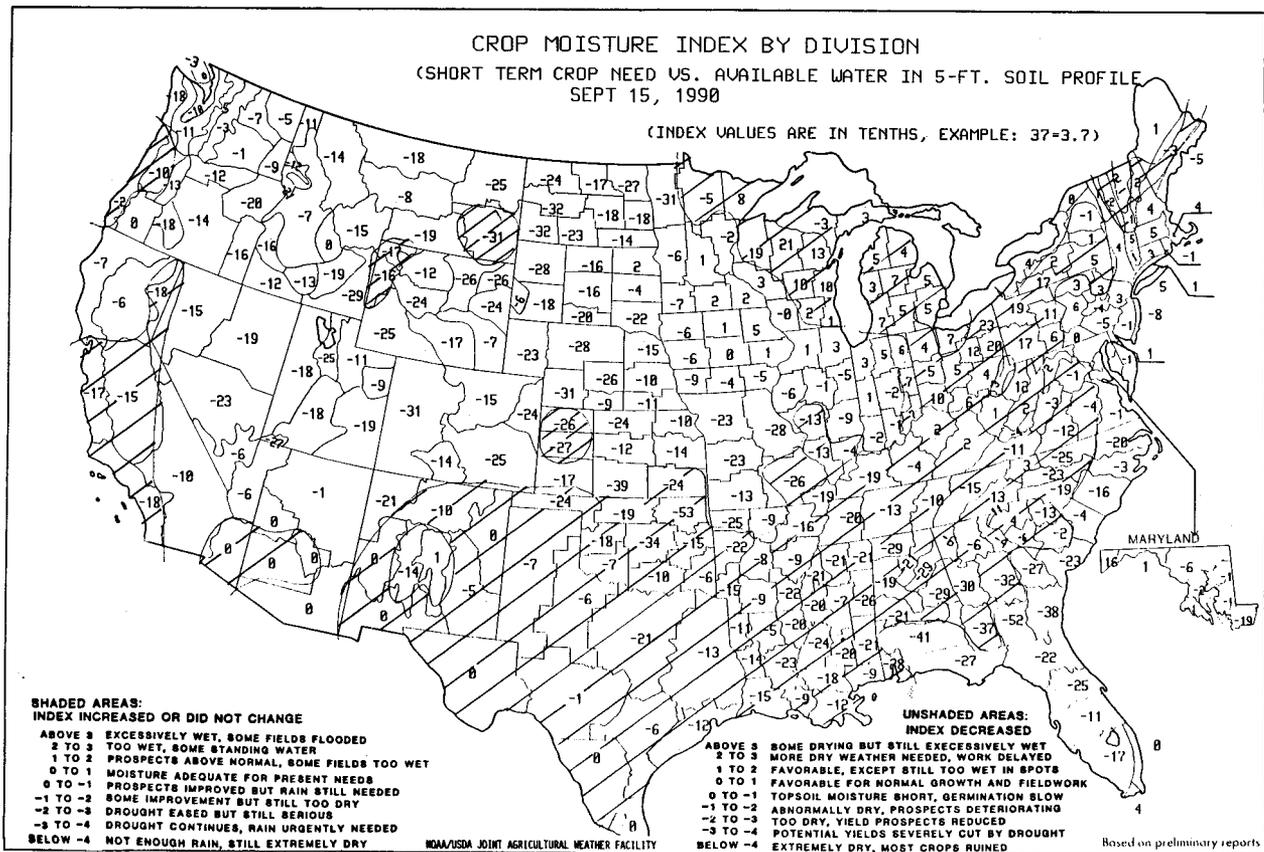
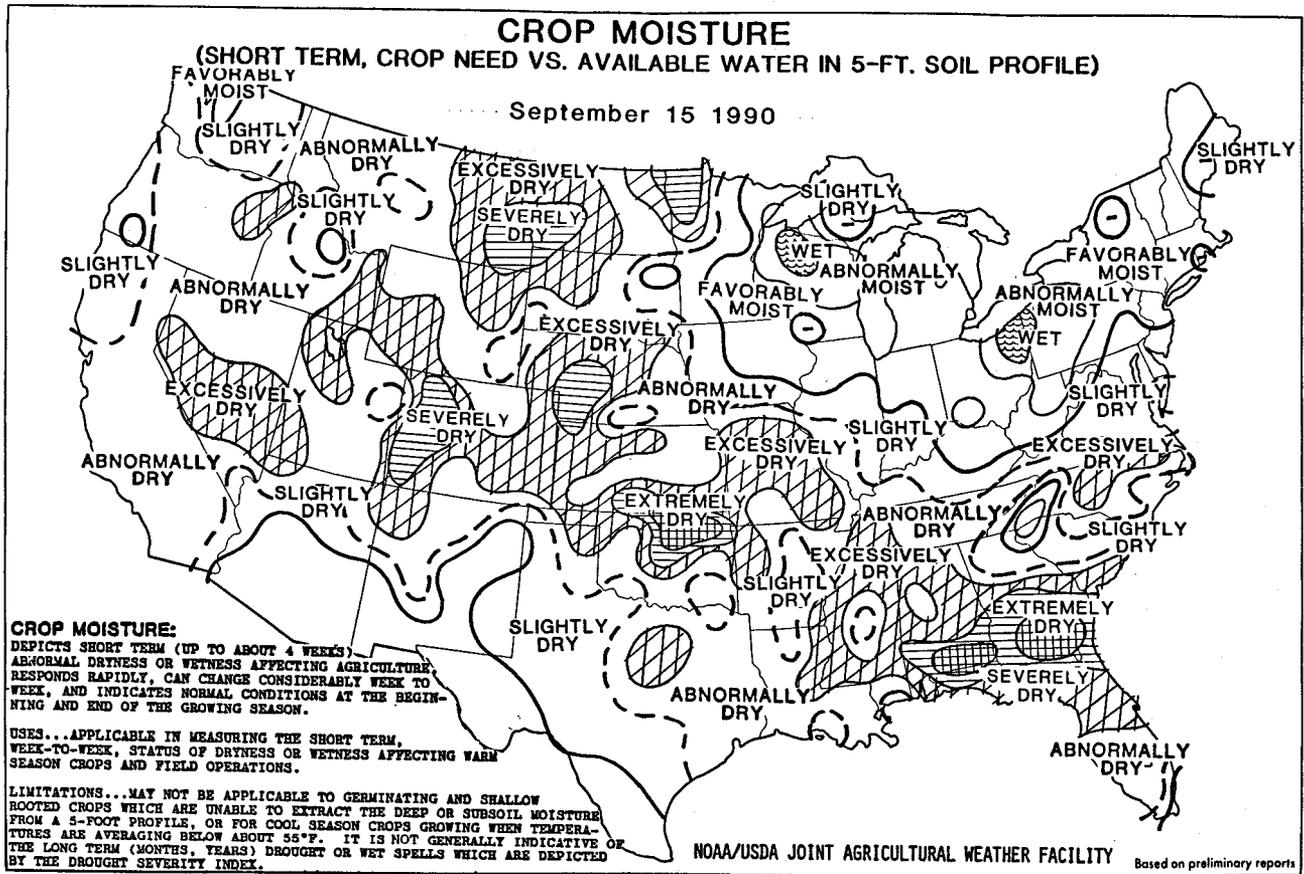
Much cooler air flowed into the **North Central and Northeastern States** behind a pair of fast moving cold fronts at week's end.

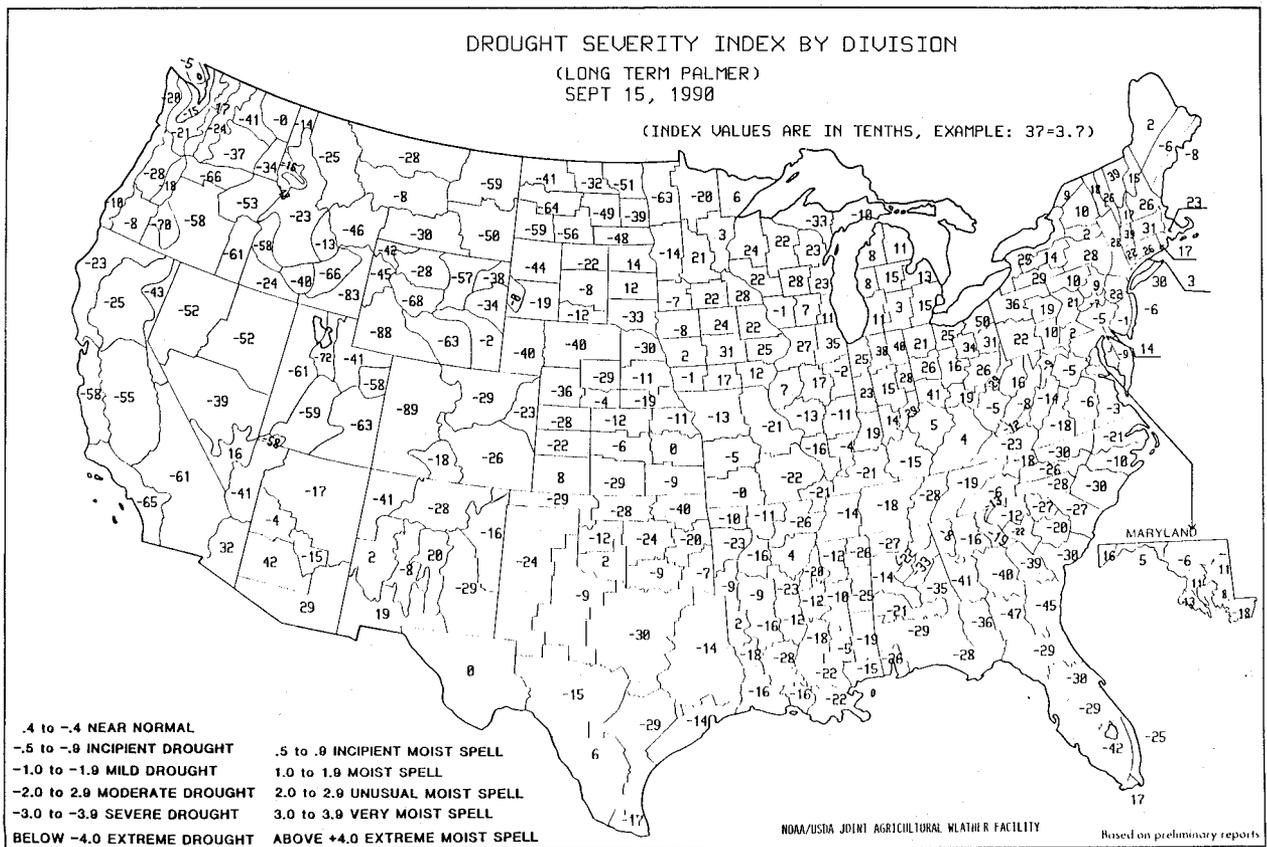
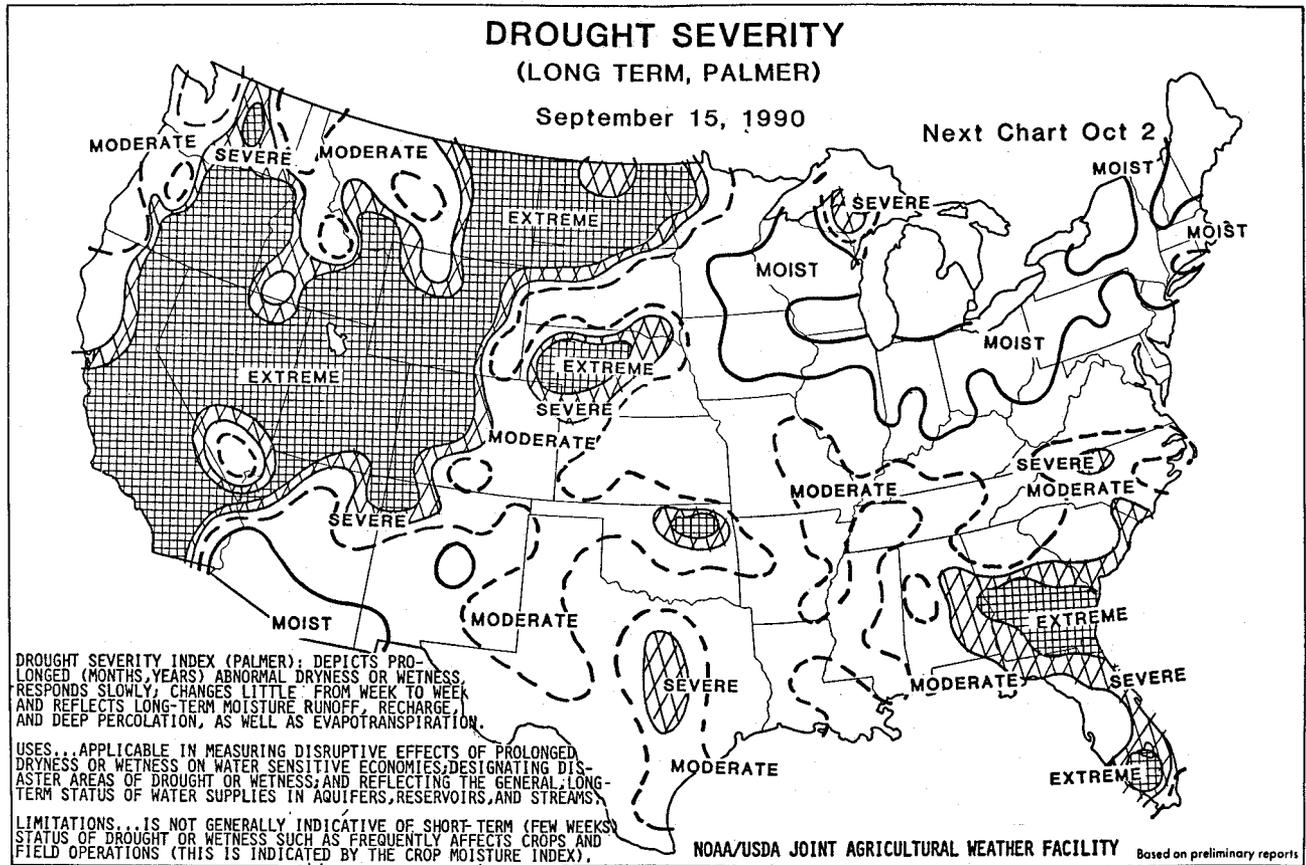
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National Weather Data for Selected Cities

Weather Data for the Week Ending September 15, 1990

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	TEMP. °F		PRECIP.	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	93	70	99	65	82	6	1.6	.6	.8	2.0	88	34.4	84	87	39	6	0	3	2
MOBILE	89	72	94	70	80	1	2.2	.5	1.0	2.2	62	47.4	95	98	59	3	0	5	1
MONTGOMERY	95	70	98	68	83	5	1.1	-.1	.6	1.1	44	46.6	127	98	40	6	0	4	2
AK ANCHORAGE	56	47	61	43	51	2	2.4	1.8	.7	4.0	320	11.9	121	99	75	0	0	7	2
BARROW	42	32	46	30	37	5	.3	.1	.1	.4	122	3.8	114	98	70	0	3	6	0
FAIRBANKS	53	40	63	34	47	-1	.3	.0	.2	1.5	230	13.5	173	93	60	0	0	7	0
JUNEAU	56	50	59	47	53	3	1.4	.0	.7	4.6	154	36.3	113	99	80	0	0	4	1
KODIAK	60	46	70	38	53	2	1.7	.2	.7	1.9	63	46.2	118	96	62	0	0	7	2
NOME	49	33	53	28	41	-3	.2	-.4	.1	1.5	116	16.9	158	90	52	0	4	4	0
AZ PHOENIX	104	80	112	69	92	7	.4	.2	.2	.7	197	6.6	142	60	25	6	0	2	0
PRESCOTT	93	60	96	57	76	10	.2	-.1	.2	1.1	119	13.6	96	56	17	6	0	2	0
TUCSON	102	73	107	68	87	6	.5	.2	.4	1.1	142	12.0	149	74	22	7	0	2	0
YUMA	108	83	116	81	96	7	.0	-.1	.0	.0	0	1.3	81	61	23	7	0	0	0
AR FORT SMITH	87	68	93	65	78	3	.4	-.3	.4	.8	51	45.0	158	96	56	3	0	2	0
LITTLE ROCK	83	70	91	68	77	1	1.6	.5	.8	1.9	88	43.1	121	90	72	1	0	4	1
CA BAKERSFIELD	94	63	104	58	79	0	.0	.0	.0	.0	0	2.6	68	64	21	5	0	0	0
EUREKA	67	56	71	53	62	4	.0	-.1	.0	.0	10	21.5	93	88	71	0	0	1	0
FRESNO	94	61	102	58	78	3	.0	.0	.0	.0	0	7.4	105	69	23	5	0	0	0
LOS ANGELES	81	65	87	63	73	3	.0	.0	.0	.0	0	5.1	60	92	52	0	0	0	0
REDDING	92	54	100	51	73	-4	.0	-.2	.0	.0	0	21.4	83	73	17	5	0	0	0
SACRAMENTO	91	56	97	53	73	3	.0	-.1	.0	.0	0	11.5	107	84	20	4	0	0	0
SAN DIEGO	81	66	85	62	73	3	.0	.0	.0	.0	0	5.9	91	95	57	0	0	0	0
SAN FRANCISCO	74	56	82	54	65	1	.0	.0	.0	.0	0	7.9	64	92	53	0	0	0	0
CO DENVER	89	55	96	50	72	8	.0	.0	.0	.0	0	16	12.8	105	63	16	3	0	0
GRAND JUNCTION	94	59	97	58	76	8	.0	-.2	.0	.7	206	5.4	99	40	11	6	0	0	0
PUEBLO	92	48	100	45	70	3	.0	-.2	.0	.1	19	12.5	140	73	15	4	0	0	0
CT BRIDGEPORT	78	64	84	50	71	4	.7	.0	.7	.9	56	31.8	110	92	62	0	0	3	1
HARTFORD	80	59	86	41	69	5	.8	-.1	.7	1.1	52	35.9	117	96	54	0	0	2	1
DC WASHINGTON	81	67	89	62	74	2	.2	-.6	.1	.2	9	29.9	105	89	54	0	0	3	0
FL APALACHICOLA	90	74	92	73	82	2	.3	-1.8	.2	1.0	21	28.7	69	96	61	5	0	2	0
DAYTONA BEACH	91	73	94	70	82	2	.1	-1.6	.0	.4	10	27.8	78	93	55	5	0	2	0
JACKSONVILLE	93	72	97	68	83	3	.1	-1.5	.1	1.0	27	21.8	54	94	51	7	0	1	0
KEY WEST	89	77	90	76	83	-1	1.1	-.4	.9	3.0	95	24.8	95	90	60	1	0	4	1
MIAMI	90	77	93	76	84	2	.1	-1.7	.1	1.2	29	41.9	100	87	57	3	0	2	0
ORLANDO	93	74	96	72	83	2	.2	-1.4	.2	.2	5	25.4	64	93	44	6	0	2	0
TALLAHASSEE	93	70	97	68	82	2	3.2	1.6	1.2	3.2	92	36.6	73	99	48	6	0	4	3
TAMPA	93	75	95	73	84	3	.0	-1.5	.0	.9	27	29.5	79	94	50	7	0	1	0
WEST PALM BEACH	90	76	93	74	83	1	.4	-1.8	.3	2.5	57	40.0	97	91	55	6	0	3	0
GA ATLANTA	87	70	92	67	79	4	2.4	1.7	1.1	3.0	185	47.1	128	95	54	1	0	4	2
AUGUSTA	91	69	95	62	80	4	.4	-.5	.4	.4	22	20.6	61	99	53	6	0	1	0
MACON	93	70	95	67	82	5	.8	-.1	.8	.8	43	23.7	68	97	44	7	0	1	0
SAVANNAH	92	73	94	70	82	5	.2	-1.1	.2	1.2	42	25.9	64	94	50	5	0	1	0
HI HILO	84	70	85	66	77	1	4.9	3.4	1.3	6.6	194	102.6	118	96	63	0	0	6	5
HONOLULU	89	75	91	73	82	1	.3	.2	.2	.3	136	10.7	75	76	45	1	0	4	0
KAHULUI	88	73	89	71	81	2	.0	-.1	.0	.1	67	15.9	129	84	49	0	0	0	0
LIHUE	85	74	86	72	80	1	.8	.4	.4	.9	100	22.1	82	84	58	0	0	4	0
ID BOISE	90	55	97	48	73	8	.0	-.1	.0	.0	0	9.5	121	48	14	4	0	0	0
LEWISTON	89	59	97	53	74	9	.0	-.2	.0	.0	6	8.4	94	47	18	3	0	0	0
IL POCATELLO	91	48	97	43	70	9	.0	-.1	.0	.3	100	7.8	103	62	14	5	0	0	0
CHICAGO	81	61	87	53	71	6	.4	-.7	.3	.5	24	30.6	119	97	57	0	0	2	0
MOLINE	84	59	89	47	71	5	.2	-.7	.2	.3	17	41.4	145	96	49	0	0	2	0
PEORIA	81	60	86	48	70	3	.0	-.9	.0	.2	10	40.5	152	100	55	0	0	0	0
QUINCY	84	60	89	49	72	4	.0	-1.0	.0	.0	0	29.2	102	98	47	0	0	0	0
ROCKFORD	82	59	86	49	71	6	.2	-.7	.1	.2	10	34.7	125	93	51	0	0	2	0
SPRINGFIELD	83	61	88	48	72	3	.0	-.8	.0	.1	3	37.3	144	99	51	0	0	2	0
IN EVANSVILLE	82	65	85	53	73	2	.4	-.2	.3	1.3	91	36.1	117	99	62	0	0	3	0
FORT WAYNE	79	61	84	53	70	4	.5	-.1	.5	.9	70	37.8	147	99	63	0	0	2	0
INDIANAPOLIS	80	63	83	52	71	3	.9	-.2	.5	1.2	86	33.5	115	99	60	0	0	2	0
SOUTH BEND	78	61	85	57	70	5	.9	-.1	.6	1.8	112	34.7	126	96	60	0	0	2	1
IA DES MOINES	85	61	89	49	73	7	.0	-.7	.0	.3	19	36.4	148	93	45	0	0	0	0
SIOUX CITY	89	57	95	47	73	8	.0	-.6	.0	.3	22	21.0	101	90	32	4	0	0	0
WATERLOO	83	58	86	44	70	7	.0	-.8	.0	.7	41	36.8	141	98	53	0	0	0	0
KS CONCORDIA	92	62	99	53	77	8	.0	-.7	.0	.0	0	21.5	97	73	26	6	0	0	0
DODGE CITY	92	61	100	57	77	6	.0	-.5	.0	.0	1	18.3	107	72	21	4	0	0	0
GOODLAND	90	54	97	49	72	7	.5	-.1	.5	.5	62	15.9	117	78	21	4	0	1	0
TOPEKA	90	60	96	47	75	5	.0	-.8	.0	.3	16	27.4	106	97	38	3	0	0	0
WICHITA	91	63	99	53	77	5	.0	-.8	.0	.8	49	14.8	67	87	32	4	0	0	0
KY BOWLING GREEN	84	66	89	58	75	3	1.2	.4	.7	2.0	124	30.7	85	99	59	0	0	3	1
LEXINGTON	79	64	82	56	71	1	.3	-.5	.2	.7	42	33.4	96	100	71	0	0	3	0
LOUISVILLE	82	67	85	58	75	3	1.0	-.2	.6	1.1	62	40.9	127	94	59	0	0	3	1
LA ALEXANDRIA	89	76	95	74	83	4	1.4	-.7	.8	1.5	96	43.1	111	88	60	3	0	6	1
BATON ROUGE	89	72	94	71	81	2	3.1	2.1	1.3	3.8	159	54.1	128	100	62	4	0	5	2
LAKE CHARLES	84	72	89	71	78	-1	4.6	3.3	1.7	5.7	190	40.7	106	100	74	0	0	6	4
NEW ORLEANS	89	73	93	71	81	2	3.1	1.6	2.3	3.9	123	45.2	101	99	63	5	0	3	1

Based on 1951-80 normals

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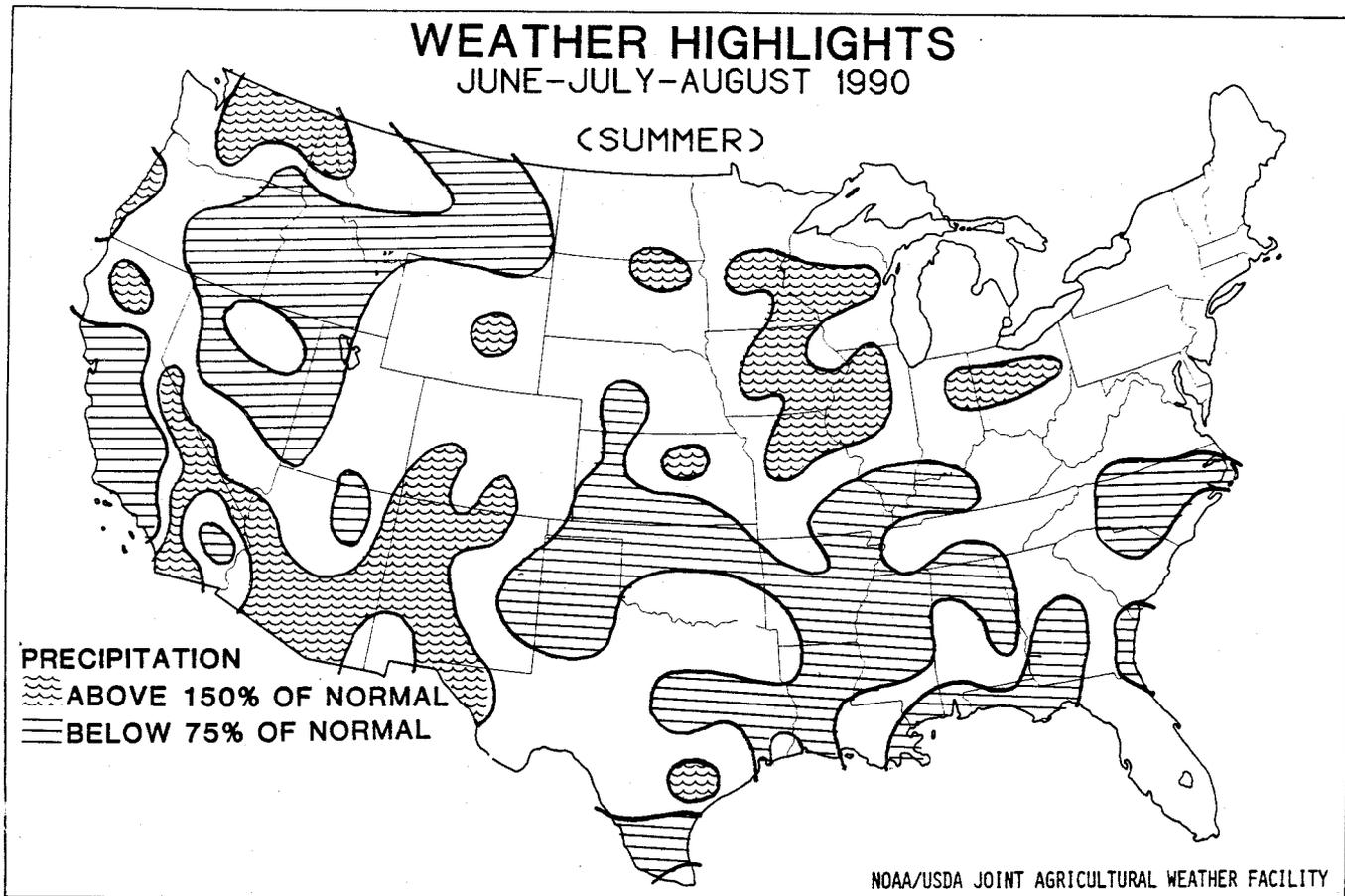
STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY PERCENT		NUMBER OF DAYS						
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Sep 1	PCT. NORMAL SINCE 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	
																		50 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
SHREVEPORT	88	72	95	69	80	2	2.5	1.7	1.8	2.5	153	48.1	151	96	61	2	0	5	1		
ME CARIBOU	67	47	73	37	57	2	.6	-.2	.5	1.3	73	25.5	101	93	58	0	0	4	0		
PORTLAND	71	55	78	40	63	3	.4	-.4	.2	1.5	99	28.3	99	99	67	0	0	1	0		
MD BALTIMORE	81	63	87	60	72	2	.7	-.8	.4	1.4	2	31.3	103	91	51	0	0	3	0		
SALISBURY	81	62	87	55	71	2	.5	-.5	.4	1.5	68	29.3	89	96	59	0	0	0	0		
MA BOSTON	75	61	83	48	68	2	.6	-.3	.4	.6	33	33.5	112	97	66	0	0	2	0		
CHATHAM	70	59	76	56	64	1	.4	-.5	.3	.4	23	32.0	101	97	80	0	0	2	0		
MI ALPENA	73	50	83	43	62	4	.7	-.1	.6	1.1	66	22.9	108	98	58	0	0	3	1		
DETROIT	78	60	83	52	69	4	.6	.5	.5	4.1	343	29.6	130	95	61	0	0	4	0		
FLINT	77	56	83	49	66	4	1.3	-.7	.7	2.2	175	21.4	100	95	56	0	0	3	1		
GRAND RAPIDS	78	57	85	52	67	4	2.1	1.4	1.7	2.8	171	26.1	109	98	60	0	0	1	1		
HOUGHTON LAKE	73	53	81	39	63	5	1.2	.5	1.2	1.4	95	22.0	109	93	63	0	0	2	1		
LANSING	78	56	85	50	67	5	1.8	1.0	1.2	3.5	220	23.3	108	96	59	0	0	2	2		
MARQUETTE	67	46	81	34	57	1	1.8	-.9	.8	2.9	146	22.9	86	99	69	0	0	5	1		
MUSKOGON	77	57	81	49	67	4	1.7	1.0	1.1	2.7	180	23.8	110	100	63	0	0	2	2		
SAULT ST. MARIE	66	47	76	38	57	1	2.1	1.1	1.0	3.1	154	24.1	106	99	67	0	0	0	0		
MN ALEXANDRIA	78	56	89	49	67	8	.8	-.5	.5	.9	70	18.1	92	88	46	0	0	5	2		
DULUTH	71	49	84	45	60	5	2.1	1.3	1.1	5.6	317	27.9	122	98	57	0	0	3	0		
INT'L FALLS	68	48	86	40	58	4	.6	-.2	.3	.6	34	16.3	87	97	55	0	0	2	0		
MINNEAPOLIS	81	58	90	48	70	8	.2	-.4	.2	1.0	69	29.2	139	91	46	1	0	2	0		
ROCHESTER	80	57	85	45	69	8	.2	-.8	.8	.9	51	39.6	180	95	56	0	0	1	0		
MS GREENWOOD	90	72	95	71	81	4	2.8	2.0	1.0	2.8	170	37.4	97	96	56	5	5	5	3		
JACKSON	91	71	95	68	81	3	3.2	2.3	1.5	3.9	206	42.1	109	100	57	3	3	5	3		
MERIDIAN	95	70	102	68	82	3	1.7	.9	1.2	1.7	94	42.1	133	98	46	7	7	1	1		
MO CAPE GIRARDEAU	84	65	88	55	75	4	.4	-.6	.3	.6	30	35.6	108	99	57	0	0	4	0		
COLUMBIA	86	62	92	51	74	3	.0	-.9	.0	.0	0	43.7	159	96	46	2	2	3	0		
KANSAS CITY	88	64	92	51	76	4	.0	-.0	.0	.0	23	33.3	121	87	40	0	0	0	0		
SAINT LOUIS	86	68	88	57	77	6	.0	-.6	.0	.0	1	28.5	116	88	46	0	0	0	0		
SPRINGFIELD	84	63	91	52	73	3	.7	-.3	.5	2.3	108	46.1	161	95	51	1	1	3	0		
MT BILLINGS	86	53	93	43	70	9	.0	-.3	.0	.1	11	9.4	82	56	18	2	2	0	0		
GLASGOW	83	52	94	41	67	8	.1	-.1	.1	.1	18	5.7	62	67	20	3	3	0	0		
GRAT FALLS	83	47	88	41	65	6	.0	-.3	.0	.1	11	12.5	102	69	18	0	0	1	0		
HAVRE	83	47	92	36	65	7	.0	-.2	.0	.0	4	5.4	56	67	19	1	1	0	0		
HELENA	85	45	91	38	65	9	.0	-.2	.0	.0	24	7.5	81	74	16	1	1	0	0		
KALISPELL	82	42	87	40	62	7	.0	-.3	.0	.1	2	15.8	139	92	24	0	0	0	0		
MILES CITY	86	54	95	44	70	8	.0	-.3	.0	.1	23	7.4	64	53	19	3	1	0	0		
MISSOULA	85	44	91	38	65	7	.0	-.2	.0	.1	11	10.7	110	83	22	1	1	0	0		
NE GRAND ISLAND	90	57	95	49	74	8	.0	-.6	.0	.1	9	23.6	121	84	27	6	6	1	0		
LINCOLN	93	58	97	48	75	8	.1	-.7	.1	.1	3	22.5	101	89	28	6	6	0	0		
NORFOLK	90	55	95	44	73	8	.0	-.5	.0	.5	48	23.1	116	88	27	5	5	0	0		
NORTH PLATTE	92	51	102	41	72	8	.1	-.4	.1	.1	8	13.2	79	86	21	6	6	1	0		
OMAHA	89	63	93	54	76	9	.0	-.3	.0	.2	2	19.4	80	78	36	5	5	1	0		
SCOTTSBLUFF	90	48	96	39	69	6	.0	-.3	.0	.1	19	14.2	116	79	16	4	4	0	0		
VALENTINE	90	51	97	42	71	8	.0	-.4	.0	.0	0	15.0	100	70	16	5	5	0	0		
NV ELY	90	45	93	43	68	10	.0	-.2	.0	.2	51	6.9	104	48	9	5	5	0	0		
LAS VEGAS	105	75	107	72	90	9	.0	-.1	.0	.0	11	3.3	114	24	9	7	7	0	0		
RENO	90	49	97	43	69	8	.0	-.1	.0	.0	0	4.3	86	59	11	5	5	0	0		
WINNEMUCCA	92	44	98	39	68	7	.0	-.1	.0	.0	0	5.3	100	40	8	6	6	0	0		
NE CONCORD	76	55	82	36	65	5	1.5	.7	1.3	1.7	108	28.4	114	99	56	0	0	4	1		
NJ ATLANTIC CITY	80	57	86	47	69	0	.1	-.6	.1	.2	10	26.8	89	99	60	0	0	2	0		
NM ALBUQUERQUE	89	61	92	58	75	4	.4	-.2	.0	.4	85	8.1	138	61	22	4	4	0	0		
CLOVIS	85	60	89	58	73	2	.1	-.1	.3	1.1	110	8.3	63	87	30	0	0	2	0		
ROSWELL	89	62	92	60	75	3	.4	-.3	.1	.5	52	5.4	67	82	28	4	4	2	0		
NY ALBANY	79	55	84	41	67	5	1.0	.3	.5	1.1	65	33.5	134	96	54	0	0	3	1		
BINGHAMTON	71	56	80	47	64	3	.8	.0	.4	1.1	68	28.7	110	100	65	0	0	3	0		
BUFFALO	75	58	86	54	66	3	.6	-.2	.4	2.3	130	33.7	130	98	58	0	0	3	0		
NEW YORK	80	67	85	57	74	4	.2	-.7	.1	.2	9	36.7	121	88	51	0	0	2	0		
ROCHESTER	74	56	84	50	65	1	.3	-.3	.2	2.2	160	28.2	127	97	60	0	0	2	0		
SYRACUSE	75	56	84	51	66	3	1.2	-.4	.5	1.6	96	33.1	120	99	61	0	0	3	1		
NC ASHEVILLE	80	63	86	54	72	4	.8	-.1	.5	1.0	52	40.6	125	100	65	0	0	5	0		
CHARLOTTE	86	70	91	68	78	4	.6	-.3	.3	1.5	80	28.7	89	98	58	2	2	3	0		
GREENSBORO	82	66	90	59	74	3	1.1	-.2	.5	1.1	57	24.8	79	98	62	1	1	4	1		
HATTERAS	85	72	90	68	78	3	.1	-.3	.1	.1	2	34.2	88	93	63	1	1	1	0		
NEW BERN	88	71	93	67	79	4	.2	-.2	.2	1.4	46	39.7	99	96	57	1	1	1	0		
RALEIGH	86	68	92	66	77	5	.3	-.5	.2	.3	16	27.3	87	97	54	1	1	4	0		
WILMINGTON	89	71	93	67	80	4	.0	-.4	.0	1.4	44	41.5	101	97	57	3	3	0	0		
ND BISMARCK	82	51	94	42	67	8	.0	-.3	.0	.6	82	11.3	88	86	27	2	2	0	0		
FARGO	81	53	94	44	67	8	.0	-.5	.0	.9	90	14.1	89	80	34	1	1	0	0		
GRAND FORKS	77	49	94	40	63	6	.0	-.5	.0	.3	24	13.5	91	88	36	1	1	1	0		
WILLISTON	82	48	98	39	65	7	.0	-.3	.0	.0	1	8.4	75	78	23	3	3	0	0		
OR AKRON-CANTON	75	58	83	52	67	2	3.0	2.3	1.5	7.0	454	47.7	178	98	65	0	0	3	2		
CINCINNATI	79	63	82	54	71	2	2.3	1.6	1.3	2.4	164	40.6	136	100	72	0	0	4	2		
CLEVELAND	76	59	81	52	68	2	2.0	1.3	1.1	5.3	350	36.0	139	99	67	0	0	2	2		
COLUMBUS	79	61	84	57	70	3	3.4	2.7	1.5	4.0	262	37.8	133	96	58	0	0	3	3		

Based on 1951-80 normals

Weather Data for the Week Ending September 15, 1990

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	
																		90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
DAYTON	78	61	84	54	69	2	1.1	-.6	.5	1.3	99	39.9	152	99	60	0	0	3	1		
TOLEDO	79	59	82	51	69	4	.4	-.2		.8	62	26.9	115	99	58	0	0	2	0		
YOUNGSTOWN	76	57	82	52	67	3	2.5	1.8	1.3	4.2	265	32.8	120	100	66	0	0	4	2		
OK OKLAHOMA CITY	91	68	96	65	79	4	T	-.8	T	T	1	28.9	122	89	41	4	0	1	0		
TULSA	92	69	97	58	80	5	T	-1.0	T	T	0	27.2	95	86	38	5	0	1	0		
OR ASTORIA	69	52	75	44	60	1	.6	-.1	.6	.6	44	47.7	120	97	66	0	0	1	1		
BURNS	84	41	92	33	63	3	.0	-.1	.0	.0	0	3.8	60	56	13	1	0	0	0		
MEDFORD	87	52	98	47	69	3	T	-.2	T	T	0	9.4	84	80	22	3	0	0	0		
PENDLETON	84	55	96	45	70	4	T	-.1	T	T	0	7.0	91	63	23	2	0	0	0		
PORTLAND	76	55	88	47	66	4	.3	.0	.3	.3	49	22.2	102	92	50	0	0	1	0		
SALEM	77	52	88	43	64	2	.4	-.1	.4	.4	60	22.5	97	93	44	0	0	1	0		
PA ALLENTOWN	78	58	85	47	68	2	.4	-.5	.3	.5	22	30.4	96	99	59	0	0	5	0		
ERIE	76	58	82	54	67	3	1.4	-.4	.8	4.3	212	34.6	127	99	66	0	0	3	2		
HARRISBURG	81	62	84	57	70	2	.3	-.5	.1	.4	21	29.2	104	98	58	0	0	5	0		
PITTSBURGH	81	64	86	53	73	3	.3	-.5	.2	.3	16	27.7	92	98	58	0	0	2	0		
PHILADELPHIA	76	60	84	55	68	2	1.2	.5	.8	4.4	306	36.5	132	98	66	0	0	4	1		
SCRANTON	76	59	82	52	68	4	1.1	.4	.3	2.5	151	33.5	135	95	56	0	0	6	0		
RI PROVIDENCE	78	59	85	43	69	4	.6	-.2	.6	.6	34	30.2	97	97	60	0	0	1	1		
SC CHARLESTON	92	73	94	71	83	6	T	-1.2	T	T	0	29.9	73	96	53	6	0	0	0		
COLUMBIA	92	69	97	65	81	4	2.2	1.1	1.7	2.2	94	27.7	72	97	47	6	0	2	2		
FLORENCE	90	71	95	69	80	4	.7	-.3	.3	.7	33	18.7	54	96	55	5	0	3	0		
GREENVILLE	84	68	91	59	76	3	1.5	.4	.8	1.5	63	34.2	90	100	62	1	0	6	1		
SD ABERDEEN	84	51	94	41	68	7	.1	-.3	.1	1.6	194	18.5	124	92	34	3	0	1	0		
HURON	89	56	100	45	72	10	T	-.3	T	.2	24	20.9	137	85	26	3	0	0	0		
RAPID CITY	87	54	97	41	70	8	T	-.2	T	2.0	358	14.6	106	57	17	3	0	1	0		
STOUK FALLS	88	56	96	47	72	9	.1	-.6	.1	.1	7	15.8	81	91	29	3	0	1	0		
TN CHATTANOOGA	89	68	93	61	78	5	1.7	.7	.6	1.7	79	48.1	126	100	53	4	0	6	1		
KNOXVILLE	85	67	92	61	76	3	1.7	1.0	1.2	1.7	115	39.8	115	98	56	2	0	5	1		
MEMPHIS	88	70	92	66	79	3	3.5	2.6	2.2	3.6	188	39.7	104	93	54	2	0	4	2		
NASHVILLE	85	68	92	60	77	3	1.6	.7	.7	1.6	84	27.1	76	97	56	2	0	5	2		
TX ADILENE	88	66	91	61	77	0	.2	-.5	.2	.4	23	22.1	128	89	43	2	0	2	0		
AMARILLO	88	58	92	54	73	2	T	-.4	T	T	0	13.6	86	86	28	2	0	0	0		
AUSTIN	90	72	97	71	81	1	1.0	-.1	.6	1.1	64	19.8	91	96	52	3	0	4	1		
BEAUMONT	87	73	94	72	80	0	3.8	2.5	2.9	4.3	153	51.9	131	98	66	2	0	4	2		
BROWNVILLE	90	74	94	73	82	0	1.5	.3	.9	3.2	125	14.9	90	97	58	5	0	4	2		
CORPUS CHRISTI	91	73	95	71	82	0	1.4	-.3	.4	1.6	47	16.9	75	97	57	4	0	4	0		
DEL RIO	90	70	95	68	80	-1	.7	-.1	.7	.9	67	17.4	143	74	39	4	0	2	1		
EFT PASO	90	62	94	58	76	0	T	-.3	T	.1	17	7.3	131	84	29	5	0	1	0		
FORT WORTH	87	70	98	69	79	0	.3	-.5	.2	.5	30	36.6	163	98	56	2	0	3	0		
GALVESTON	86	75	91	72	81	0	6.2	4.7	2.1	6.8	214	31.6	112	91	66	2	0	6	4		
HOUSTON	87	72	94	70	79	-1	1.0	-.2	.4	1.5	59	31.8	98	97	63	3	0	5	0		
LUBBOCK	89	60	93	57	75	2	.3	-.1	.3	.4	34	11.4	83	88	34	2	0	2	0		
MIDLAND	88	64	92	61	76	1	1.3	.8	.7	2.2	207	10.5	105	96	39	2	0	4	2		
SAN ANGELO	87	65	91	61	76	-2	.5	-.3	.3	.7	50	18.2	142	95	47	1	0	3	0		
SAN ANTONIO	90	70	94	68	80	0	2.4	1.5	1.3	3.3	179	30.9	151	94	53	4	0	3	2		
VICTORIA	90	73	95	70	81	0	2.1	.6	1.0	2.2	70	29.7	114	99	62	3	0	3	2		
WACO	86	70	96	68	78	-2	4.3	3.6	3.5	5.0	332	27.5	125	98	62	3	0	2	2		
WICHITA FALLS	93	67	99	65	80	3	T	-.8	T	T	1	31.3	160	92	39	5	0	0	0		
UT CEDAR CITY	92	57	93	52	74	9	.0	-.2	.0	.5	102	7.1	95	43	12	6	0	0	0		
SALT LAKE CITY	95	63	99	58	79	12	T	-.2	T	T	2	7.7	70	48	15	7	0	0	0		
VT BURLINGTON	75	54	82	44	64	4	.4	-.4	.3	.9	51	26.9	112	96	55	0	0	2	0		
VA NORFOLK	84	68	91	65	76	3	.8	-.3	.4	.8	34	37.2	111	96	59	1	0	3	0		
RICHMOND	84	64	88	61	74	2	1.5	.6	.8	1.6	90	33.5	105	93	53	0	0	2	2		
ROANOKE	80	64	89	57	72	3	1.2	.5	.9	1.4	88	28.5	100	99	62	0	0	5	1		
WA QUILLAYUTE	69	52	78	43	60	3	.4	-1.0	.4	.4	14	61.9	100	97	64	0	0	2	0		
SEATTLE-TACOMA	71	54	77	51	62	2	.0	-.4	.0	.4	2	24.7	112	94	58	0	0	0	0		
SPOKANE	83	51	90	47	67	6	.0	-.2	.0	.0	0	13.3	126	72	23	1	0	0	0		
YAKIMA	85	48	93	41	66	4	.0	-.1	.0	.0	22	5.5	112	86	26	2	0	0	0		
WV BECKLEY	76	61	80	51	69	5	1.0	-.1	.4	1.0	53	28.0	88	97	62	0	0	5	0		
CHARLESTON	82	65	84	60	74	5	1.2	.5	.6	1.9	116	29.1	91	98	61	0	0	3	2		
HUNTINGTON	80	65	87	57	73	3	2.5	1.7	1.5	3.8	239	36.4	117	99	64	0	0	3	2		
PARKERSBURG	78	63	81	59	70	1	1.3	.6	.7	1.4	94	35.7	124	99	66	0	0	1	1		
WI GREEN BAY	77	56	84	48	67	7	2.0	1.2	1.6	4.7	285	30.2	143	97	60	0	0	3	3		
LACROSSE	83	60	88	49	71	8	1.3	.4	1.0	1.3	71	32.5	137	97	55	0	0	2	2		
MADISON	80	58	84	48	69	8	1.2	.5	.6	1.2	73	28.7	121	96	58	0	0	1	1		
MILWAUKEE	80	64	86	57	72	8	.7	.1	.7	.8	54	30.9	134	91	54	0	0	1	1		
WAUSAU	75	56	83	47	66	7	2.0	1.1	1.2	3.2	156	28.2	115	99	60	0	0	5	0		
WY CASPER	87	46	94	37	67	7	T	-.2	T	T	9	9.3	106	56	12	2	0	0	0		
CHEYENNE	82	50	89	40	66	7	T	-.2	T	.2	35	16.6	148	67	20	0	0	1	0		
LANDER	87	53	94	49	70	10	T	-.2	T	T	0	6.6	66	50	16	1	0	0	0		
SHERIDAN	86	46	98	35	66	7	T	-.3	T	.1	12	10.1	86	66	16	2	0	0	0		

Based on 1951-80 normals



SUMMER WEATHER REVIEW
June - August 1990

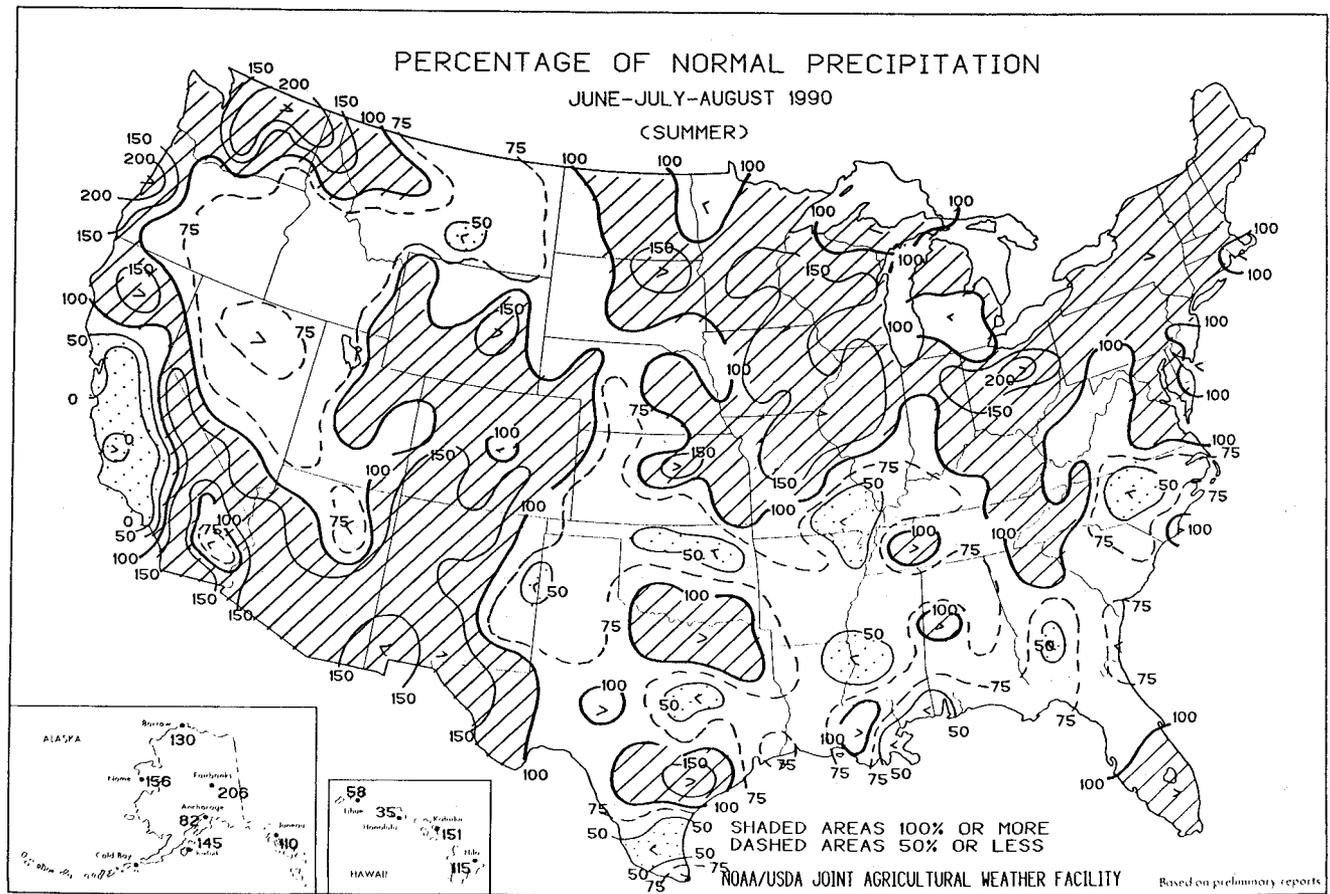
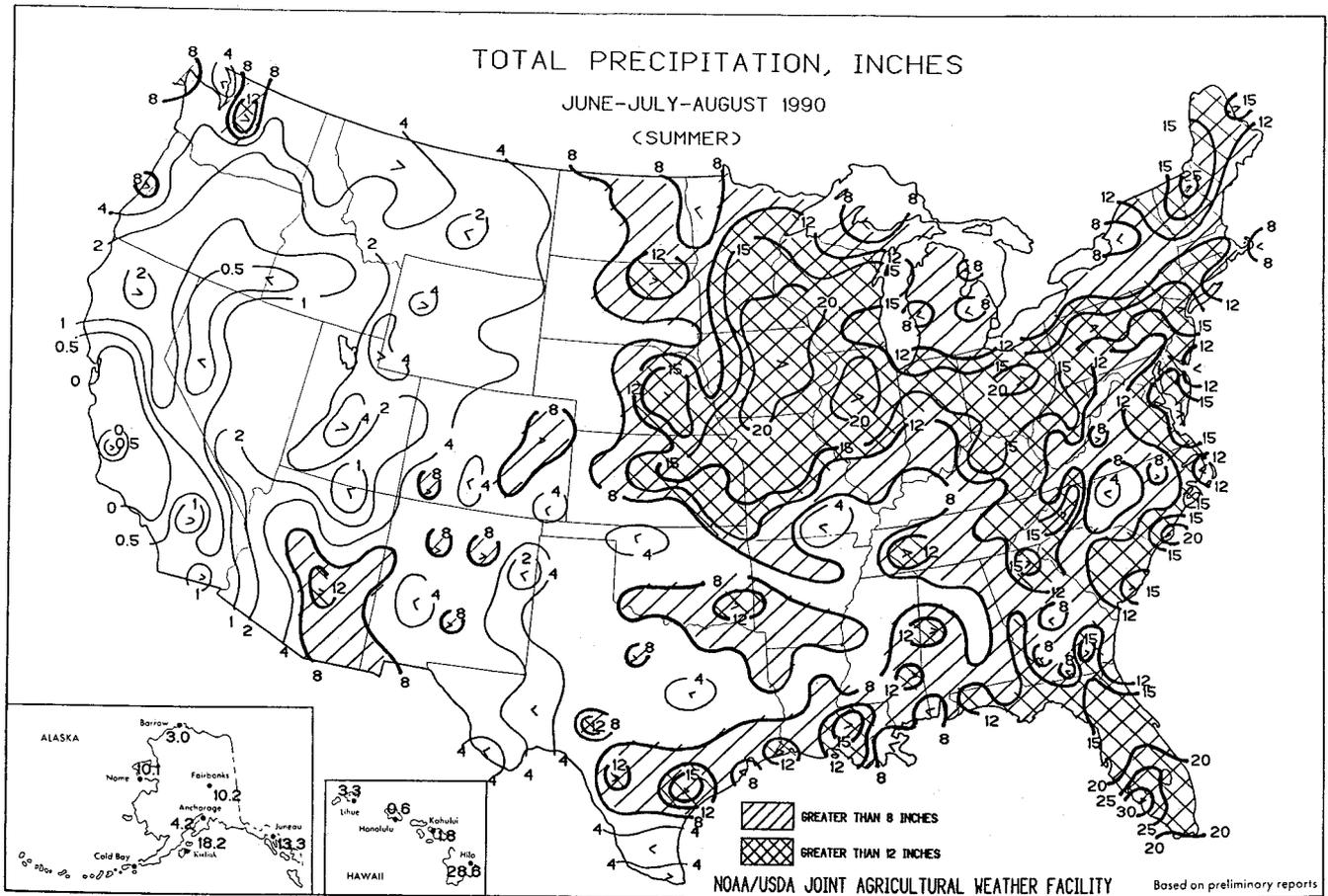
HIGHLIGHTS: Thunderstorms brought severe weather and soaking rains to the eastern portions of the **northern Plains** and across the **Corn Belt**, while hot, dry weather was in the **central and southern Plains, Delta, and the Southeast**. An active southwest monsoon caused flash floods and above-normal rainfall, relieving long-term drought across **Arizona and New Mexico**. Temperatures averaged above normal over most of the Nation except parts of the **Great Plains** and much of the **Corn Belt**.

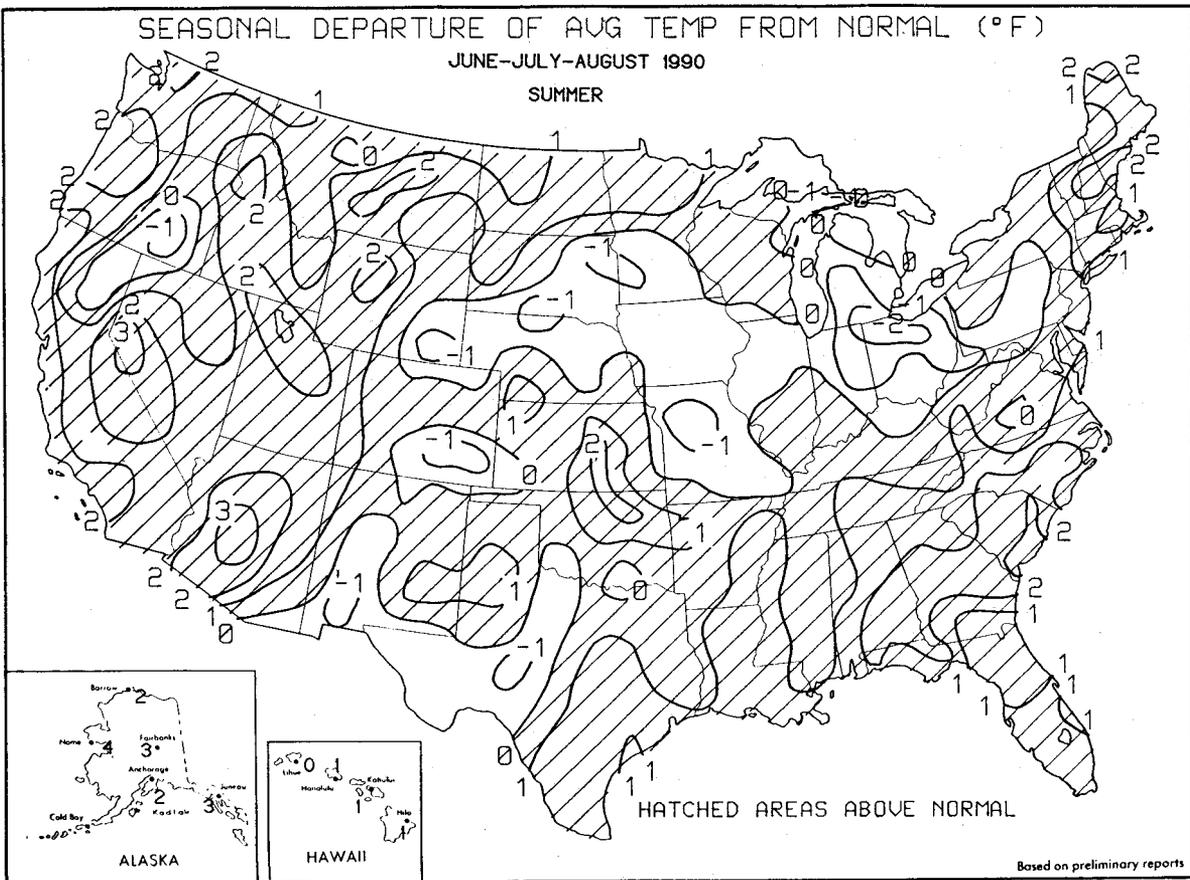
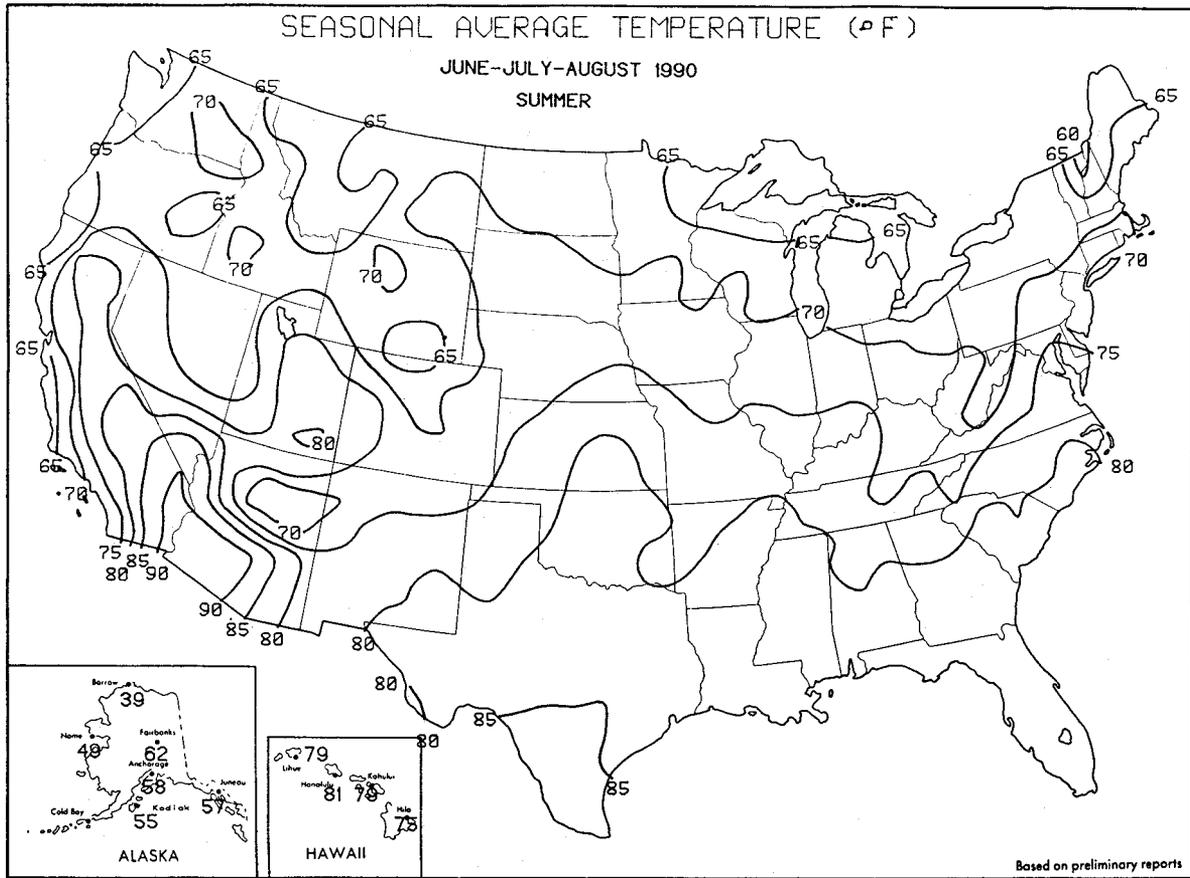
JUNE: Storm systems brought severe weather and abundant moisture to much of the northern Plains and Mississippi and Ohio Valleys throughout the month. Intense thunderstorms spawned numerous tornadoes and caused locally torrential rains across the Corn Belt. Hot, dry conditions, however, prevailed over much of the Southeast, middle Atlantic coast, and central and southern Plains, and parts of the West. Alltime record-high temperatures were broken in Tucson and Phoenix, AZ, Pueblo, CO, and Lubbock, TX. Temperatures averaged above normal over most of the Nation as the Southwest and southern Great Plains sweltered with temperatures averaging more than 6° F above normal.

JULY: Thunderstorms continued to bring severe weather, abundant rain, and local flooding to the

Corn Belt and parts of the Great Plains and Atlantic Coast States throughout July. An active Southwest monsoon caused widespread showers, flash floods, and contributed to the above-normal rainfall over much of the western third of the Nation. In mid-July, thunderstorms raked southern Texas with torrential rain. The storms deluged El Dorado with 12.5 inches, San Antonio with 10 inches, and Beeville with 10.64 inches. Dry conditions remained over parts of the Southeast. Unseasonably cool air prevailed in the Plains and Mississippi Valley, while the West remained hot. Above-normal temperatures continued along the Atlantic seaboard.

AUGUST: Stagnant weather systems early and late in August brought rainfall of 4 to over 12 inches along the Atlantic Coast States. Thunderstorms caused severe weather and heavy rains in much of the Corn Belt and parts of the Great Plains. At mid-August, swollen water levels from torrential downpours threatened to rupture dams on Lakes Maniton and Tomah in northern Indiana. On the 28th, tornadoes devastated several locations in northern Illinois. Hot, dry conditions prevailed across the Delta and Southeast. Temperatures were abnormally high in the West during the first half of the month, while a late-summer heat wave baked the Central and Southern States at month's end.





National Agricultural Summary

September 10-16, 1990

HIGHLIGHTS: Higher-than-average temperatures over most of the Nation accelerated crop maturity. However, lack of moisture in the central and northern Great Plains hindered wheat seeding and crop growth. Iowa had the driest week in the past 6 months. Most of the West also experienced dry conditions. A killing frost occurred in many eastern areas in Oregon. General rains from south and east Texas through the East coast improved crop and pasture conditions. Winter wheat seeding was 14 percent (%) complete, 6 percentage points behind the 5-year average. Corn was 16% mature, 28 points behind average. Twenty-two percent of the soybean acres was dropping leaves, 17 points behind average. Boll openings in cotton was 57%, 3 points above average. Grain sorghum was 40% mature, 4 points below average. Rice harvest was 35% complete, 11 points below average. Record volumes of new crop fruit were packed and shipped in Florida.

SMALL GRAINS: Winter wheat seeding was 14% complete, 6 points behind the average. Planting progress was behind normal in 12 of the 19 major producing States. Great Plains States were waiting for rain to continue planting. Colorado was 21 points behind average in winter wheat seedings. Some seeding occurred in Kansas, but most areas remained too dry to plant. Rains in Texas and east of the Mississippi River were needed for seeding and crop growth. Spring wheat harvest was virtually complete in the five major producing States.

CORN: Corn was mostly good with 33% of the acres reported in the mature stage, 28 points behind normal. Corn maturity was 10 days behind last year and 2 weeks behind average in Minnesota. Corn lagged more than 30 points behind normal in Illinois, Indiana, Minnesota, Missouri, and Ohio. In Illinois, only 23% was mature, 51 points behind normal. Insects damaged many fields in Indiana, Nebraska, and South Dakota. In the 17 producing States, harvest was at 5%, 3 points behind normal. Corn in 10 of the 17 major producing States was harvested.

SOYBEANS: Soybeans were mostly good to fair in the 19 major producing States, with 22% of the acres dropping leaves, 17 points behind normal. In Minnesota, soybean maturity was 9 days behind average. Indiana and Illinois were 43% and 38%, respectively, behind average in dropping leaves. Kentucky, soybeans need another frost-free month. Rains in the Southeast helped the soybean crop. Harvest was reported in 1% of the acres, 3 points behind normal.

COTTON: Cotton was fair to good in the 14 major producing States. Fifty-seven percent of the acres was opening bolls, 3 points ahead of normal. Harvest was 11% complete, 5 points above last year and 2 points above average. Harvest was underway in 8 of the 14 States. Cotton was actively harvested in Georgia, with 22% of the acres harvested, 18 points above average. Harvest was continuing in Riverside County in California. New Mexico needed hotter temperatures and drier weather for cotton. Defoliation was in most producing States.

SORGHUM: Grain sorghum was fair to good in the 12 major producing States. Sorghum was 40% mature, 4 points above last year but 4 points below average. Harvest began in 9 of the 12 States with 20% of the acres harvested, 1 point below last year and 3 points below average. Louisiana crop was 80%

harvested, while Mississippi and Texas' were over 50% harvested. Chinch bugs, heat, and drought were causing lodging in eastern and southern Nebraska. Dry weather hurt sorghum in Oklahoma.

OTHER FIELD CROPS: Rice harvest was 35% complete, 11 points behind normal. Harvest lagged behind normal in Arkansas and Mississippi. Rain slowed harvest in Arkansas. Peanut harvest continued in Alabama and Georgia. In North Carolina, peanuts were in good to fair condition. Rain slowed peanut harvest in Texas. Burley tobacco harvest was 65% complete in Kentucky and 78% complete in Tennessee. Condition of the housed crop was good in Kentucky. In North Carolina, flue-cured tobacco harvest was 80% complete and burley tobacco harvest was 66% complete. In Louisiana, rain improved soil moisture, which allowed sugarcane planting activity to increase. Planting was 41% complete, still 11 points behind normal.

FRUIT AND NUTS: Rain was needed in Florida's citrus producing areas. Low-volume irrigation was active. Record volumes of new crop fruit were packed and shipped. In Georgia, pecans were in fair to poor condition. Rain slowed pecan nut drop in Texas. Lemon harvest continued in western Arizona. Red delicious apple harvest was underway in California. Wine and table grape harvests continued. Prune harvest was underway in Willamette Valley, OR. Apple and pear harvests continued in Washington, and peach and plum harvests were nearly complete in Idaho. Apple harvest continued in Michigan and New England. Peach and pear harvests were also active in New England.

VEGETABLES: Vegetable planting was active in Florida. Crops being planted included snap beans, cabbage, carrots, and sweet corn. In Louisiana, sweetpotato harvest was 44% complete, 8 points behind normal. In Texas, rain delayed vegetable planting in the Rio Grande Valley and slowed vegetable harvests in the eastern area. Cucumber, carrot, and cabbage harvests continued in the High Plains. In western Arizona, vegetable planting continued, and mixed melon harvest was active in the central area. In California, tomatoes, summer squash, carrots, cucumbers, and sweetpotatoes were being harvested. Producers applied worm and aphid controls to some fall crops. Late-season strawberries were beginning to bloom. Snap bean harvest was complete in Oregon, and potato and onion harvests continued in Malheur County. Potato harvest was ahead of normal in Washington. Onion harvest was over half finished in Idaho. Potato harvest continued in Colorado and North Dakota. Onion harvest was active in New York.

PASTURES AND LIVESTOCK: Rain improved pasture conditions in the East and portions of the South. Pastures were mostly good to fair in the Corn Belt. Pastures needed rain in the central and northern Great Plains. Supplemental feeding was required in portions of Nebraska. Heat continued to stress livestock in the central and northern Great Plains. In the Pacific Northwest, pasture and range condition was mostly fair to good.

GRAIN SORGHUM
% COLORING
1990 1989 AVG.

AR	88	90	NA
CO	63	61	71
IL	43	82	NA
KS	75	45	70
LA	97	99	99
MS	93	93	97
MO	63	85	89
NE	95	78	87
NM	72	NA	NA
OK	80	95	90
SD	83	94	80
TX	91	79	88

12 STATES 82 NA NA

EXCL. STATES WITH NA 83 68 81

THESE 12 STATES PRODUCED 98% OF THE 1989 GRAIN SORGHUM CROP.

NA - NOT AVAILABLE.

GRAIN SORGHUM
% MATURE
1990 1989 AVG.

AR	48	76	NA
CO	16	37	18
IL	7	50	NA
KS	15	10	25
LA	88	90	94
MS	80	69	85
MO	20	44	56
NE	25	22	40
NM	63	NA	NA
OK	10	15	25
SD	34	50	33
TX	86	71	69

12 STATES 41 NA NA

EXCL. STATES WITH NA 40 36 44

THESE 12 STATES PRODUCED 98% OF THE 1989 GRAIN SORGHUM CROP.

NA - NOT AVAILABLE.

GRAIN SORGHUM
% HARVESTED
1990 1989 AVG.

AR	18	42	59
CO	0	0	0
IL	0	4	7
KS	2	1	5
LA	80	69	77
MS	54	42	57
MO	4	16	19
NE	1	0	2
NM	1	NA	NA
OK	0	3	5
SD	8	0	1
TX	59	60	59

12 STATES 20 NA NA

EXCL. STATES WITH NA 20 21 23

THESE 12 STATES PRODUCED 98% OF THE 1989 GRAIN SORGHUM CROP.

NA - NOT AVAILABLE.

GRAIN SORGHUM

STATE	VP	P	F	G	EX
AR	1	11	64	24	0
CO	0	2	21	62	15
IL	0	0	33	63	4
KS	0	5	31	51	13
LA	0	13	31	56	0
MS	0	9	60	31	0
MO	0	1	65	34	0
NE	2	17	41	39	1
NM	4	0	38	58	0
OK	0	30	30	40	0
SD	0	5	20	69	6
TX	0	8	42	41	9
12 STATE	0	8	38	46	8
PREV WEEK	1	8	42	44	5
PREV YEAR	1	12	33	38	16

SOYBEANS

STATE	VP	P	F	G	EX
AL	14	56	22	8	0
AR	2	31	47	20	0
CA	29	33	35	3	0
IL	0	1	22	69	8
IN	0	0	27	70	3
IA	0	1	18	72	9
KS	0	14	53	25	8
KY	4	15	55	19	7
LA	0	21	46	30	3
MI	0	2	13	55	30
MN	4	7	51	33	5
MS	18	42	37	3	0
MO	1	5	71	23	0
NE	2	23	53	22	0
NC	0	10	44	43	3
OH	3	8	27	50	12
SC	0	9	55	36	0
SD	0	8	31	55	6
TN	4	29	53	14	0
19 STATE	2	10	37	46	5
PREV WEEK	3	10	35	45	7
PREV YEAR	2	7	36	48	7

Crop Condition
PERCENT

FOR WEEK ENDING SEPTEMBER 16, 1990

RICE

STATE	VP	P	F	G	EX
AR	0	0	45	55	0
CA	0	0	15	75	10
LA	0	0	22	78	0
MS	0	0	36	64	0
TX	0	0	37	63	0
5 STATE	0	0	34	64	2
PREV WEEK	0	0	34	64	2
PREV YEAR	0	0	25	67	8

CORN

STATE	VP	P	F	G	EX
CO	0	3	16	61	20
GA	13	35	32	15	5
IL	0	1	10	72	17
IN	0	1	15	74	10
IA	0	0	8	72	20
KS	0	3	16	53	28
KY	5	11	40	40	4
MI	0	5	15	50	30
MN	2	6	41	45	6
MO	0	1	44	51	4
NE	2	4	29	57	8
NC	7	24	46	22	1
OH	2	8	26	52	12
PA	1	4	18	52	25
SD	0	8	23	54	15
TX	0	0	29	67	4
WI	0	1	12	78	9
17 STATE	1	3	20	62	14
PREV WEEK	1	4	19	61	15
PREV YEAR	2	6	24	56	12

COTTON

STATE	VP	P	F	G	EX
AL	2	44	54	0	0
AZ	0	0	38	62	0
AR	0	4	22	64	10
CA	0	0	10	85	5
GA	24	27	34	15	0
LA	0	15	23	62	0
MS	8	1	65	26	0
MO	0	0	100	0	0
NM	5	0	29	66	0
NC	0	3	42	55	0
OK	0	0	45	47	8
SC	0	72	27	1	0
TN	5	7	81	7	0
TX	0	3	42	51	4
14 STATE	2	6	41	48	3
PREV WEEK	2	9	38	48	3
PREV YEAR	0	7	54	36	3

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

Crop Progress

FOR WEEK ENDING SEPTEMBER 16, 1990

RICE
% HARVESTED

	1990	1989	AVG.
AR	8	17	33
CA	5	1	3
LA	87	77	81
MS	26	22	43
TX	93	95	94

5 STATES 35 36 46

THESE 5 STATES PRODUCED 97% OF THE 1989 RICE CROP.

WINTER WHEAT
% PLANTED

	1990	1989	AVG.
AR	0	0	0
CA	0	0	0
CO	32	25	53
GA	1	1	3
ID	10	9	15
IL	0	1	1
IN	1	1	2
KS	5	5	15
MI	5	4	3
MO	2	1	4
MT	21	22	19
NE	30	23	41
NC	0	0	0
OH	0	0	0
OK	12	15	15
OR	18	7	6
SD	52	50	54
TX	23	22	26
WA	40	33	42

19 STATES 14 14 20

THESE 19 STATES PRODUCED 91% OF THE 1990 WINTER WHEAT CROP.

CORN
% DENT

	1990	1989	AVG.
CO	81	76	86
GA	100	100	100
IL	75	93	98
IN	85	89	96
IA	95	100	99
KS	96	85	95
KY	97	98	99
MI	55	65	75
MN	90	91	92
MO	91	98	99
NE	97	93	95
NC	96	96	98
OH	63	68	91
PA	40	31	63
SD	85	93	79
TX	100	100	100
WI	64	67	76

17 STATES 84 89 93

THESE 17 STATES PRODUCED 95% OF THE 1989 CORN CROP.

COTTON
% BOLLS OPENING

	1990	1989	AVG.
AL	73	35	66
AZ	100	86	86
AR	55	31	67
CA	85	90	87
GA	81	48	60
LA	96	65	84
MS	91	47	82
MO	52	49	59
NM	45	76	63
NC	60	44	74
OK	15	5	20
SC	67	38	61
TN	60	40	62
TX	35	30	30

14 STATES 57 44 54

THESE 14 STATES PRODUCED 99% OF THE 1989 COTTON CROP.

SOYBEANS
% DROPPING LEAVES

	1990	1989	AVG.
AL	24	14	13
AR	4	5	7
GA	32	12	18
IL	14	30	52
IN	10	15	53
IA	20	38	46
KS	40	20	45
KY	14	19	26
LA	31	19	17
MI	10	20	30
MN	52	63	60
MS	19	17	20
MO	12	13	26
NE	35	20	35
NC	10	4	3
OH	16	10	44
SC	0	2	3
SD	65	67	60
TN	20	16	20

19 STATES 22 26 39

THESE 19 STATES PRODUCED 95% OF THE 1989 SOYBEANS CROP.

CORN
% MATURE

	1990	1989	AVG.
CO	29	38	38
GA	100	100	100
IL	23	42	74
IN	19	30	68
IA	50	64	74
KS	65	55	70
KY	50	62	71
MI	5	10	20
MN	13	47	50
MO	46	74	84
NE	40	36	50
NC	94	89	92
OH	7	5	38
PA	4	4	16
SD	37	50	47
TX	91	82	89
WI	15	17	38

17 STATES 33 44 61

THESE 17 STATES PRODUCED 95% OF THE 1989 CORN CROP.

COTTON
% HARVESTED

	1990	1989	AVG.
AL	12	3	9
AZ	6	6	2
AR	0	0	8
CA	0	0	0
GA	22	1	4
LA	27	3	15
MS	15	0	10
MO	2	1	9
NM	0	0	0
NC	0	0	0
OK	0	0	0
SC	6	0	3
TN	0	0	0
TX	16	13	14

14 STATES 11 6 9

THESE 14 STATES PRODUCED 99% OF THE 1989 COTTON CROP.

SOYBEANS
% HARVESTED

	1990	1989	AVG.
AL	0	0	1
AR	0	0	0
GA	1	0	1
IL	1	1	9
IN	0	0	6
IA	0	0	3
KS	3	0	3
KY	0	0	0
LA	8	3	2
MI	0	0	0
MN	3	1	10
MS	2	0	0
MO	0	0	2
NE	1	0	1
NC	0	0	0
OH	0	0	0
SC	0	0	0
SD	1	0	2
TN	0	0	0

19 STATES 1 0 4

THESE 19 STATES PRODUCED 95% OF THE 1989 SOYBEANS CROP.

CORN
% HARVESTED

	1990	1989	AVG.
CO	0	0	0
GA	85	77	81
IL	1	3	10
IN	0	1	5
IA	3	5	6
KS	20	5	20
KY	8	7	15
MI	0	0	1
MN	1	1	4
MO	7	10	19
NE	3	2	3
NC	37	23	30
OH	0	0	0
PA	0	0	1
SD	0	2	1
TX	73	69	68
WI	0	0	0

17 STATES 5 5 8

THESE 17 STATES PRODUCED 95% OF THE 1989 CORN CROP.

State Summaries of Weather and Agriculture

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

ALABAMA: Rainfall 0.50 in. or less; 1.00 to 3.00 in. local areas northwest. Temperatures 3 to 5° above normal.

Days suitable for fieldwork 5.9. Soil moisture 43% very short, 49% short, 8% adequate. Scattered rains benefitted crops, pastures north. Corn 99% mature, 97% 1989, 99% avg.; 67% harvested, 57% 1989, 67% avg.; 2% very poor, 16% poor, 60% fair, 16% good, 6% excellent. Sorghum 50% harvested, 51% 1989, 45% avg.; 3% very poor, 24% poor, 59% fair, 14% good. Cotton 73% bolls opened, 35% 1989, 66% avg.; 12% harvested, 3% 1989, 9% avg.; 2% very poor, 44% poor, 54% fair. Peanuts 52% dug, 53% 1989, 26% avg.; 35% combined, 36% 1989, 17% avg.; 27% very poor, 70% poor, 3% fair. Soybeans 90% setting pods, 86% 1989, 92% avg.; 39% turning color, 32% 1989, 31% avg.; 24% dropping leaves, 14% 1989, 13% avg.; 12% mature, 5% 1989, 8% avg.; 14% very poor, 56% poor, 22% fair, 8% good. Winter wheat 9% seeded, 14% 1989, 8% avg. Pastures 31% very poor, 53% poor, 13% fair, 3% good. Livestock 21% poor, 58% fair, 21% good. Primary activities: harvesting corn, sorghum, hay, peanuts, sweetpotatoes; controlling pests in soybeans; defoliating, harvesting cotton; irrigating vegetables; mowing pastures; preparing land, seeding winter annuals; providing supplemental feed, water to cattle; routine care of livestock, poultry, catfish.

ALASKA: Rain, wind, cooler temperatures dominated. Highs 3° below normal at Kenai to 3° above normal at Kenny Lake. Lows 3 to 9° warmer than normal. Seasonal precipitation 1.09 in. Drier than normal at PMC Butte to 4.99 in. Wetter than normal at Fairbanks.

Days suitable for hay, grain, potato harvest: 3.0. Topsoil 82% adequate, 18% surplus. Subsoil 92% adequate, 8% surplus. Barley harvest 80%, 2nd crop hay harvest 20% commercial potato digging, 35% complete versus 50% 1989.

ARIZONA: Statewide warming trend 9th to 11th, record breaking temperatures many areas; increased humidity 12th; thunderstorms developed east 14th, moving westward; severe storms, hail, high winds central; mostly cloudy statewide 15th; temperatures 2 to 9° above normal. Extremes 54°; 97° higher elevations, 63°; 116° deserts. Rainfall none extreme west to nearly 1.00 in. north central.

Cotton bolls opening 100%, 86% 1989, 86% avg.; harvested 6%, 6% 1989, 2% avg.; selective spraying pink boll worms west; defoliation light, except southwest active. Alfalfa hay harvest moderate; fields finally dry enough resume cutting central; rain damage none to light. Western lemon harvest, vegetable planting continued; central mixed melon harvests continued; east apple, pumpkin, mixed vegetable harvests continued; fall lettuce emerging.

ARKANSAS: Cooler temperatures. Widespread rain first, middle part of week. Temperatures slightly above normal. Extremes 51°; 97°. Rainfall none to 3.20 in.

Days suitable for fieldwork 5.0. Soil moisture 46% short, 49% adequate, 5% surplus. Main activities: Harvesting corn, cotton, rice, sorghum; irrigating soybeans; defoliating cotton; preparing wheat ground, fertilizing pastures; controlling insects; baling hay. Corn 56% harvested, 79% 1989, 82% avg.; 35% fair, 65% good.

Soybeans 98% blooming, 97% 1989, 87% avg.; 94% setting pods, 93% 1989, 93% avg.; 16% yellowing, 17% 1989, 20% avg.; 2% very poor, 31% poor, 47% fair, 20% good. Sorghum 100% headed, 100% 1989, 100% 4 year avg. Cotton defoliation continued, ginnings started. Rice harvest slowed due to rains, early yields, quality good. Soybeans aided by recent rains. Sorghum yields good. Corn yields better than expected. Apple harvest nears completion. Pasture 15% very poor, 58% poor, 25% fair, 2% good. Rains, cooler temperatures reduced heat stress on poultry, livestock.

CALIFORNIA: High pressure replaced by low pressure trough along coast, brought cooling all but southern most State. No rainfall, temperatures near to slightly above normal.

Field activities progressed, open weather. Rice heading complete, harvest underway most areas. Field draining nearly complete. Cotton defoliation continued, harvest active Riverside County. Lima, black eye bean harvests progressed. Alfalfa seed, safflower harvests near complete. Sunflower, sugarbeet, silage and grain corn harvests progressed. Worm treatments continued, alfalfa hay. Small grain field preparation ongoing. Granny Smith apple harvest gained momentum, harvesting of Red Delicious apples began. Medjool dates were harvested. Raisins 95% lay completed, majority of crop still drying on open trays. Rolling continued, a few fields picked, boxed. Thompson Seedless, Grenache varieties harvested for wine production. Table grapes were harvested, packed. Late variety peaches, plums, nectarines harvested. Almond harvest proceeded. Piled almonds fumigated to control navel orangeworm. Pistachio shaking active. Walnuts harvested: Payne, Ashley, Marchetti, Serr, Vina. Valencia orange harvest continued at very low volume. Some citrus growers treated orchards for red scale. Navel orange fruit size increased at a normal rate. Desert lemon packing increased. Fresh, processing tomato harvest vigorously active, good quality. Harvest active for summer squash, carrots, cucumbers, sweet potatoes, regular, chili peppers, Oriental vegetables harvest winding down for cantaloupe, honeydew, watermelon, mixed melons. Garlic, onions harvested for dehydration. Harvest of sweet corn, lima beans continued. Dry, snap beans look good some fields beginning to dry. Pumpkin growth increasing harvest in central, southern areas. Fall crops of broccoli, cauliflower, tomatoes, lettuce treated for worm and aphid control. Late strawberries beginning to blossom. Well underway some replanting from heat damage expected. Livestock good condition, Statewide. Range, pasture conditions, water supply levels central valley, southern State poor to very poor, conditions fair northern districts. Supplemental feeding continued. Livestock movement heavy Shasta area.

COLORADO: Extremely hot dry weather resulted in many new record high temperatures across State. Precipitation a trace to 0.10 in. Temperatures 5 to 8° above normal.

Days suitable for fieldwork 6.6. Soil moisture 14% very short, 49% short, 49% adequate. Winter wheat seeding for 1991 crop nearly one third complete. Third cutting alfalfa 50% complete. Spring barley 97% harvested. Oats 92% harvested. Spring wheat 76% harvested. Dry beans 60% cut, 36%

threshed. Corn 92% dough, 81% dent, 29% mature; silage harvest 46% complete. Sorghum 63% turning color and 16% mature. Dry onions 64% harvested. Summer potatoes 67% harvested. Fall potatoes 8% harvested. Pasture, range feed 2% very poor, 10% poor, 33% fair, 45% good, 10% excellent. Livestock mostly good to excellent.

FLORIDA: Temperatures 2 to 4° above normal. Extremes from 59°; 98°. Rainfall 1.00 in. or less. Greatest weekly total 3.91 in. Jay. Rain fell 2 days, most locations.

Soil moisture Panhandle short; central, northern Peninsula short to adequate, southern Peninsula adequate to surplus. Cotton harvest starting. Cotton, peanut harvest, haying steady. Sugarcane planting active. Sugarcane for next crop harvest good progress. Pastures 19% poor, 43% fair, 19% good, 19% excellent. Cattle fair north; good to excellent south. Calving getting underway. Rain needed most citrus areas; low volume irrigation active. Record volumes new crop fruit packed, shipped. Caretakers cutting cover crops. Spraying, fertilizing continued. Hot temperatures, scattered, locally heavy rain, vegetable producing areas. Planting active snap beans, cabbage, carrots, celery, sweet corn, cucumbers, eggplant, peppers, radishes, squash, tomatoes. Harvest to start within next 2 weeks: Cherry tomatoes, sweet corn, radishes.

GEORGIA: Scattered thunderstorms. Rains most widespread north half, above 2.00 in. common. Local totals exceeding 5.00 in. Heaviest rain total 8.70 in. near Helen. Thunderstorms less numerous south half State, only local 1.00 to 2.00 in. Portions central, south State less than 0.50 in. Hot week, temperatures 3 to 5° above normal. Hottest mostly low, mid 90s, mid 80s mountains, few upper 90s south. A drier, cooler air mass moved into State late weekend.

Days suitable for fieldwork 5.6. Soil moisture 35% very short, 36% short, 23% adequate, 6% surplus. Corn harvest progress slows. Cotton harvest very active. Sorghum 49% harvested for grain, 42% 1989, 35% avg.; poor to mostly fair. Peanuts continue to disappoint now 25% very poor, 40% poor, 27% fair, 8% good; 41% dug, 57% 1989, 37% avg.; 28% threshed, 40% 1989, 25% avg. Soybeans 96% setting pods, 99% 1989, 98% avg.; harvest underway. Tobacco 98% harvested, 100% 1989, 99% avg. Wheat seeding very little progress due dry weather still 1% planted. Other small grain seedings very slow. Apples 1% very poor, 1% poor, 30% fair, 68% good; 57% harvested, 48% 1989, 60% avg. Pecans 13% very poor, 24% poor, 63% fair. Hay 6% very poor, 29% poor, 48% fair, 16% good, 1% excellent. Pasture 9% very poor, 31% poor, 36% fair, 23% good, 1% excellent; statewide most hay, pasture poor to fair, rains helped north. Livestock fair to good. Main activities: Harvesting peanuts, cotton, corn, soybeans, apples. Preparing land for planting small grains, preparing onion seedbeds, spraying for armyworms in pastures, hay fields.

HAWAII: Strengthening trade winds bring relief from heat wave. Winds gusty up to 25 mph while temperatures high 60s to upper 80s. Days mostly sunny with scattered light to moderate showers. Rainfall none to 4.70 in.

Days suitable for farm work 7.0. Papaya production active. Sugar, pineapple harvest continuous.

IDAHO: Temperatures 5 to 11° above normal. Trace amounts precipitation north, east.

Days suitable for fieldwork 7.0. Soil moisture 15% very short, 29% short, 56% adequate. Winter

wheat 10% planted, 9% 1989, 15% avg. Spring wheat 92% harvested, 96% 1989, 93% avg. Spring barley 94% harvested, 94% 1989, 93% avg. Potatoes 15% harvested, 12% 1989, 10% avg. Oats 87% harvested, 90% 1989, 92% avg. Alfalfa 2nd cutting 96% harvested, 100% 1989, 100% avg.; 3rd cutting 46% harvested, 50% 1989, 48% avg. Dry beans 50% harvested, 53% 1989, 46% avg. Sugarbeets 9% harvested, 2% 1989, 1% avg. Onions 55% harvested, 34% 1989, 42% avg. Sweet corn for processing 90% harvested. Field corn for silage 20% harvested. Peaches, plums finishing up. Apples 11% harvested, 14% 1989, 9% avg. Hops 35% harvested, 70% 1989, 73% avg. Range, pasture 8% very poor, 22% poor, 36% fair, 32% good, 2% excellent. Sheep, cattle moved off summer ranges.

ILLINOIS: Temperatures normal to 3° above normal across State. Precipitation less than 0.50 in. north, south; none central.

Days suitable for fieldwork 6.00. Soil moisture 23% short, 72% adequate, 5% surplus. Corn dough 94%, 100% 1989, 100% avg. Soybeans turning yellow 42%, 68% 1989, 80% avg. Sorghum headed 92%, 100% 1989. Alfalfa 2% poor, 15% fair, 63% good, 20% excellent. Alfalfa hay third cutting 85%, 84% 1989, 92% avg. Pasture 8% poor, 26% fair, 58% good, 8% excellent.

INDIANA: Temperatures near normal. Lows upper 30s, mostly 50s, highs mid 70s to 80°. Precipitation 0.25 to 1.50 in.

Days suitable for fieldwork 4.8. Topsoil 6% short, 81% adequate, 13% surplus. Subsoil 2% short, 92% adequate, 6% surplus. Soybeans 40% turning yellow, 50% 1989, 86% avg. Tobacco 38% harvested, 48% 1989, 69% avg. Pasture 1% poor, 16% fair, 75% good, 8% excellent. 1991 winter wheat cropland 39% plowed, 40% 1990, 37% avg. Favorable week for crop development, fieldwork. Corn borer evident in many fields.

IOWA: Temperatures 5 to 6° above normal. Extremes 38°; 95°. Rainfall none to 0.34 in.; average 0.02 in. Driest week in 6 months.

Days suitable for fieldwork 6.8. Topsoil 32% short, 68% adequate. Subsoil 7% short, 89% adequate, 4% surplus. Pasture 6% poor, 24% fair, 56% good, 14% excellent. Third crop alfalfa hay 96% harvested, 97% 1989, 92% avg. Livestock were under considerable stress as high temperatures, humidity blanketed the State early week. Fall weather over weekend allowed considerable relief from heat stress in livestock.

KANSAS: Temperatures 4 to 6° above average across State. Precipitation generally light; heaviest totals 0.41 in.; 0.34 in. southeast, east central respectively.

Days suitable for fieldwork 6.5. Surface moisture 92% short, 8% adequate. Subsoil moisture 68% short, 32% adequate. Corn, sorghum, soybeans slightly behind schedule. Wheat seeding underway, most areas remain too dry for planting. Charcoal rot noted in number of soybean fields. Range, pastures fair to good across State. Third cutting alfalfa hay 99% complete; fourth cutting 45% complete.

KENTUCKY: Temperatures around 3° above normal. High temperatures lower 80s, lows averaged lower 60s. Precipitation heaviest south central State, 1.50 to 2.00 in. remainder 0.50 to 1.00 in.

Days suitable for fieldwork 3.6. Soil moisture 11% very short, 26% short, 59% adequate, 4% surplus. Primary activities, cut, house tobacco, cut corn silage, bale hay. Corn mostly fair to good. Late beans continue to grow, need another frost free month. Tobacco continues to add size,

weight. Housed tobacco good, little houseburn. Burley 65% cut, 74% 1989, 73% avg. Dark tobacco 65% cut, 78% 1989, 77% avg.

LOUISIANA: Temperatures 1 to 2° above normal north; near normal south. Extremes 67°; 96°. Rainfall 1.15 to 3.76 in.

Days suitable for fieldwork 3.4. Soil moisture 3% very short, 33% short, 40% adequate, 24% surplus. Corn harvested 100%, 90% 1989, 93% avg. Cotton open bolls 96%, 65% 1989, 84% avg.; harvested 27%, 3% 1989, 15% avg.; 15% poor, 23% fair, 62% good. Hay final cutting 80%, 68% 1989, 69% avg. Rice headed 100%, 100% 1989, 100% avg.; ripe 94%, 89% 1989, 93% avg.; harvested 87%, 77% 1989, 81% avg. Sorghum turning color 97%, 99% 1989, 99% avg.; ripe 88%, 90% 1989, 94% avg.; harvested 80%, 69% 1989, 77% avg. Rain delayed harvest. Soybeans setting pods 100%, 96% 1989, 98% avg.; turning color 62%, 39% 1989, 39% avg.; shedding leaves 31%, 19% 1989, 17% avg.; harvested 8%, 3% 1989, 2% avg.; 21% poor, 46% fair, 30% good, 3% excellent. Sweetpotatoes harvested 44%, 36% 1989, 52% avg.; 73% fair, 18% good, 9% excellent. Sugarcane planted 41%, 68% 1989, 52% avg.; 9% very poor, 11% poor, 50% fair, 30% good. Planting increased due to sufficient moisture. Livestock 2% poor, 35% fair, 63% good. Pasture 25% poor, 52% fair, 23% good. Rain improved conditions somewhat. Vegetable 20% poor, 60% fair, 20% good.

MARYLAND & DELAWARE: **MARYLAND:** Precipitation 0.46 in. Temperature 72°, normal 70°. Extremes 51°; 92°.

Days suitable for fieldwork 5.4. Topsoil 28% short, 67% adequate, 5% surplus. Subsoil 14% short, 86% adequate. Corn good; 85% dent, 85% 1989, 88% avg.; 38% mature, 54% 1989, 56% avg.; grain 10% harvested, 9% 1989, 17% avg.; silage 45% harvested, 45% 1989, 63% avg. Soybeans good; 96% setting pods, 88% 1989, 90% avg.; 23% turned, 12% 1989, 24% avg.; 6% shedding leaves, 4% 1989, 9% avg. Tobacco good; 97% topped, 90% 1989, 95% avg.; 82% harvested, 64% 1989, 71% avg. Barley 4% seeded, 6% 1989, 8% avg. Rye 15% seeded, 4% 1989, 10% avg. Sweet corn 95% harvested, 96% 1989, 97% avg. Lima beans 74% harvested, 94% 1989, 84% avg. Hay supplies adequate. Alfalfa hay fourth cut 35% complete, 35% 1989, 42% avg. Other hay second cut 97% complete, 94% 1989, 94% avg. Other hay third cut 40% complete, 38% 1989, 67% avg. Other hay fourth cut 12% complete, 7% 1989, 6% avg. Apples fair to good; 35% harvested, 41% 1989, 35% avg. Pasture good.

DELAWARE: Precipitation 0.96 in. Temperature 72°, normal 70°. Extremes 55°; 90°.

Days suitable for fieldwork 6.7. Topsoil 33% short, 67% adequate. Subsoil 17% short, 83% adequate. Corn good; 94% dent, 94% 1989, 94% avg.; 56% mature, 45% 1989, 65% avg.; grain 14% harvested, 14% 1989, 22% avg.; silage 60% harvested, 48% 1989, 72% avg. Soybeans good; 95% setting pods, 88% 1989, 95% avg.; 12% turned, 7% 1989, 22% avg. Sweet corn 95% harvested, 95% 1989, 97% avg. Cucumbers 90% harvested, 96% 1989, NA avg. Lima beans 49% harvested, 42% 1989, 60% avg. Snap beans 95% harvested, 90% 1989, NA avg. Hay supplies adequate. Alfalfa hay fourth cut 48% complete, 26% 1989, 64% avg. Other hay third cut 78% complete, 89% 1989, 91% avg. Apples good; 45% harvested, 53% 1989, 32% avg. Pasture good.

MICHIGAN: Temperatures 2 to 5° above normal. Extremes 34°; 87°. Precipitation 0.50 to 3.38 in. across State.

Days suitable for fieldwork 5.5. Soil moisture 5% short, 85% adequate, 10% surplus. Corn 55% dent, 65% 1989, 75% avg.; 5% mature, 10% 1989, 20% avg.; 0% harvested, 0% 1989, 1% avg.; 5% poor, 15% fair, 50% good, 30% excellent. Soybeans 10%

dropping leaves, 20% 1989, 30% avg.; 0% harvested, 0% 1989, 0% avg.; 2% poor, 13% fair, 55% good, 30% excellent. Winter wheat 5% seeded, 4% 1989, 3% avg. Pasture 20% fair, 45% good, 35% excellent. Major activities: Balding 3rd cutting hay, planting winter wheat, cutting corn silage, harvesting dry beans, harvest of apples, vegetables continues. Niagara grape harvested underway, concords to begin this week.

MINNESOTA: Temperatures 3 to 8° above normal. Extremes 32°; 95°. Precipitation 0.03 to 1.84 in., greatest weekly total 2.17 in.

Days suitable for fieldwork 5.9. Topsoil 29% very short, 14% short, 54% adequate, 3% surplus. Corn 90% denting, 91% 1989, 92% avg.; 13% mature, 47% 1989, 50% avg.; 1% combined, 1% 1989, 4% avg. Soybeans 52% shedding leaves, 63% 1989, 60% avg.; 13% mature, 12% 1989, 24% avg.; 3% combined, 1% 1989, 5% avg. Sugarbeets 1% harvested, 3% 1989, 4% avg. Dry beans 63% harvested, 24% 1989, 38% avg. Potatoes 29% harvested, 23% 1989, 33% avg. Sweet corn 75% harvested, 91% 1989, 90% avg. Flax 78% harvested, 65% 1989, 59% avg. Sunflowers 3% harvested, 2% 1989, 4% avg. Winter wheat 76% seeded, 66% 1989, 67% avg. Rye 72% seeded, 69% 1989, 67% avg. Field corn 14% silage, 16% 1989, 32% avg. Land 66% plowed, tilled, 66% 1989, 59% avg. Soybeans 18% moisture, NA% 1989, NA% avg. Corn 24% moisture, NA% 1989, NA% avg. Field corn 2% very poor, 6% poor, 41% fair, 44% good, 6% excellent. Soybeans 4% very poor, 7% poor, 51% fair, 32% good, 5% excellent.

MISSISSIPPI: Temperatures 2° above normal. Extremes 62°; 102°. Mostly wet statewide. Rainfall 1.73 in., 0.76 in. above normal. Soil temperatures 84°.

Days suitable for fieldwork 4.0, 6.4 1989, 5.7 avg. Soil moisture 7% very short, 40% short, 44% adequate, 9% surplus. Cotton 91% open bolls, 47% 1989, 82% avg.; 15% harvested, 0% 1989, 10% avg.; 8% very poor, 1% poor, 65% fair, 26% good. Corn 88% mature, 82% 1989, 92% avg.; 43% harvested, 43% 1989, 57% avg.; 96% silage harvested, 92% 1989, 94% avg. Rice 73% mature, 76% 1989, 84% avg.; 26% harvested, 22% 1989, 43% avg. Soybeans 93% podding, 86% 1989, 40% turning color, 31% 1989, 40% avg.; 18% very poor, 42% poor, 37% fair, 3% good. Sorghum 93% coloring, 93% 1989, 97% avg.; 80% mature, 69% 1989, 85% avg., 54% harvested, 42% 1989, 57% avg.; 90% silage harvested, 84% 1989, 81% avg.; Hay 87% harvested, 81% 1989, 86% avg. Peanuts 54% harvested, 49% 1989, 55% avg. Sweetpotatoes 46% harvested, 49% 1989, 41% avg. Wheat 8% planted, 1% 1989, 5% avg.; 4% emerged, 1% 1989; 39% poor, 54% fair, 17% good. Pasture, livestock fair to good. Activities: Harvesting cotton, soybeans, planting wheat.

MISSOURI: Temperatures 2 to 6° above normal, cooler late in week. Dry weather continuing except localized showers some west central, central counties, parts of Bootheel.

Days suitable for fieldwork 6.3. Topsoil 83% short, 17% adequate. Subsoil 47% short, 53% adequate. Corn maturing 10 days behind 1989, over 2 weeks behind avg. Corn reaching maturity by district ranges about 33% northeast, west central, central, east central, to 79% southeast. Dry weather hurting late crops. Soybean maturity 9 days behind avg. Winter wheat seeding begun, dry soil difficult to prepare for seedbed. Pasture 7% very poor, 30% poor, 50% fair, 12% good, 1% excellent.

MONTANA: Warm, dry last week. Temperatures 5 to 10° above normal.

Days suitable for fieldwork 6.8. Topsoil 63% short, 37% adequate. Subsoil 64% short, 35%

adequate, 1% surplus. Spring wheat 97% harvested, 83% 1989, 90% avg. Barley 96% harvested, 78% 1989, 87% avg. Oats 93% harvested, 84% 1989, 90% avg. Second cutting alfalfa harvested 87%, 82% 1989, 88% avg. Dry beans 35% harvested, 33% 1989, 34% avg. Corn silage 23% harvested, 29% 1989, 35% avg. Potatoes 2% harvested, 1% 1989, 3% avg. Pasture, range feed 4% very poor, 13% poor, 38% fair, 42% good, 3% excellent.

NEBRASKA: Week began hot, humid, ended cool, dry. Temperatures 6 to 8° above normal. Little or no precipitation. Extremes 35°; 102°.

Days suitable for fieldwork 7.0. Topsoil 99% short, 1% adequate. Subsoil 82% short, 18% adequate. Alfalfa hay 5% very poor, 21% poor, 42% fair, 31% good, 1% excellent; 95% 3rd cutting, 95% 1989, 94% avg. Northeast, central growers making 4th cutting. Soybeans 80% turning color, 65% 1989, 77% avg. Some harvested beans still had green stems, leaves dropping without turning color. Winter wheat 6% emerged, 5% 1989, 20% avg. Many growers ready to plant, waiting for moisture. Corn condition improved slightly as worst fields cut for silage, abandoned. Corn borer damage becoming evident, as winds caused stalk breakage in infested fields. Combination of chinch bug damage, heat, drought caused sorghum lodging east, south. Dryland row crops continued to suffer, lose yield potential as hot, dry weather continued. Many corn, sorghum fields cut for silage, a few drought damaged soybean fields, also. Many fields too dry for silage, will be pastured or lost. Dry edible bean harvest continued, average to slightly above average yields, good quality. Pasture, range 10% very poor, 43% poor, 34% fair, 12% good, 1% excellent. Some producers removing livestock from pastures, other feeding hay until row crop fields harvested, stalks available. Cattle beginning to move into east central areas from Sandhills, the Dakotas, Montana, to take advantage of crop residues after harvest. Heat hard on livestock again, caused reduced weight gains.

NEVADA: Continued hot, dry early, very limited rainfall. Low pressure system produced slight cooling trend, gusty winds late.

Dry weather allowed good progress harvesting remaining acreage alfalfa seed, potatoes, small grains, alfalfa hay. Movement livestock to lower elevation fall, winter ranges accelerated by range deterioration. Cooler weather end of week reduced stress in livestock somewhat.

NEW ENGLAND: Precipitation 0.40 to 1.50 in. south; 0.25 to 1.25 in. Maine, Vermont; 1.20 to 1.60 in. New Hampshire. Temperatures mid 50s to mid 60s north, mid 60s to 70 south; 4 to 5° above normal. Maximum temperatures low 70s to low 80s north, high 70s to mid 80s south.

Days suitable for fieldwork 6.0. Soil moisture north 11% short, 81% adequate, 8% surplus; south 5% very short, 16% short, 79% adequate. Grazing availability 16% short, 81% adequate, 3% surplus. Pasture 5% poor, 23% fair, 69% good, 3% excellent. Maine potatoes 8% harvested, 9% 1989, 11% avg.; good. Rhode Island potatoes 76% harvested, 55% 1989, 62% avg.; fair to good. Connecticut River Valley potatoes 31% harvested, 35% 1989, 34% avg.; fair to good. Maine oats 75% harvested, 69% 1989, 68% avg.; good. Field corn 11% harvested, 16% 1989, 17% avg.; good. Sweet corn 88% harvested, 89% 1989, 89% avg.; good. Second cut hay 88% harvested, 90% 1989, 90% avg.; good. Third crop hay 55% harvested, 51% 1989, 55% avg.; good. Outdoor tobacco 100% harvested, shade tobacco 100% harvested; good. Apples 26% harvested, size medium to large; good. Peaches 87% harvested; fair to good. Pears 69% harvested; fair to good. Blueberries 98% harvested; good. Major farm

activities: Cutting hay, harvesting fruits, vegetables, chopping field corn, fall plowing, planting cover crops.

NEW JERSEY: Temperatures much above normal. Extremes 43°; 89°. Rainfall 1.26 in. north, 0.73 in. central, 0.57 in. south. Heaviest 24 hour total 0.99 in. on 14th, 15th. Estimated soil moisture percent field capacity averaged 75% north, 50% central, 39% south. Four inch soil temperatures averaged 67° north, 69° central, 70° south.

Fieldwork very active. Summer vegetable harvest continued to decline. Harvest of fall vegetables began. Most growers complete Irish potato digging. Sweetpotato harvest active. Fall variety apple harvest continued. Corn silage making progressed well. Corn for grain, soybeans continued to mature. Some late hay made. Preparation, planting of fall grains, cover crops active.

NEW MEXICO: Temperatures generally above normal, 1° below normal at Hobbs to 8° above normal at Santa Fe. Precipitation 0.04 in. at Des Moines to 1.54 in. at Clovis.

Days suitable for fieldwork 6.6. Soil moisture 45% short, 53% adequate, 2% surplus. Showers continued across State this week. Need hotter temperatures, drier weather for cotton. Wheat planting continues on the High Plains. Severe hail received near Portales, 4,000 acres hit by golf ball size hail. Crops affected were wheat, haygrazer, milo, peanuts. Rangeland needs more moisture before the end of the growing season to ensure winter feed. Cattle, sheep fair to good. Range 15% poor, 46% fair, 37% good, 2% excellent.

NEW YORK: Week began, ended cool, was warm at mid week. Weather turned warm, humid on 10th, continued through 14th. Cool air arrived on 15th. Temperatures 2 to 5° above normal. Extremes 37°; 86°. Rainfall was highly variable 2.04 in at Jamestown to 0.14 in at New York City. Most places received between 0.50 to 1.25 in.

Days suitable for fieldwork 5.7. Soil moisture adequate. Pastures 42% fair, 58% good. Hay, corn mostly good. Second cutting alfalfa winding down, third cutting 64% finished, 53% 1989, 49% avg. Oat harvest virtually complete. Silage corn harvest 5% complete, 7% 1989, 9% avg. Dry bean harvest gained momentum. Potato harvest in full swing. Apple harvest continued active. Growers monitoring maturity of McIntosh crop which is highly variable. Cooler temperatures needed to lower risk of fruit drop. Vegetable harvest remained active. Onion harvest in full swing. Processing sweet corn continued with good yields reported.

NORTH CAROLINA: Temperatures 3 to 5° above normal across the State. Extremes 52°; 94°. Precipitation none to 3.79 in.

Days suitable for fieldwork 5.6. Soil moisture 12% very short, 49% short, 39% adequate. Pasture 4% very poor, 9% poor, 38% fair, 47% good, 2% excellent. Livestock feed from pasture 77%. Hay third cutting 50%. Harvested: Flue cured tobacco 80%; corn silage 82%; corn for grain 37%; burley tobacco 66%; sweetpotatoes 15%; apples 33%; sorghum 14%. Corn mature 94%; cotton opening bolls 60%; Soybeans setting pods 88%. Crop condition: Corn 7% very poor, 24% poor, 46% fair, 22% good, 1% excellent; cotton 3% poor, 42% fair, 55% good; soybeans 10% poor, 44% fair, 43% good, 3% excellent; peanuts 28% fair, 72% good; sorghum 10% poor, 52% fair, 37% good, 1% excellent; sweet potatoes, 3% poor, 29% fair, 68% good; apples 13% poor, 39% fair, 48% good; hay 4% very poor, 11% poor, 33% fair, 51% good, 1% excellent. Major activities: Harvesting flue cured, burley tobacco; harvesting corn for grain, cutting corn for silage; cutting hay; harvesting vegetables; spraying field

crops; land preparation. Other activities included: Shearing Christmas trees; seeding pastures; harvesting apples, sweet potatoes, sorghum; tending livestock; general farm maintenance.

NORTH DAKOTA: Temperatures 5 to 9° above normal. Precipitation none northwest, south central to 0.08 in. north central.

Days suitable for fieldwork 6.9. Topsoil 43% very short, 52% short, 5% adequate. Subsoil 58% very short, 42% short. Wheat harvest nearly completed. Spring wheat 99% combined, 100% 1989, 94% avg. Durum wheat 98% combined, 99% 1989, 88% avg. Flaxseed 3% poor, 39% fair, 48% good, 10% excellent; 73% combined, 66% 1989, 48% avg. Corn for grain 2% poor, 65% fair, 33% good; 11% ripe, 23% 1989, 24% avg. Corn for silage 6% very poor, 14% poor, 57% fair, 23% good; 53% cut, 46% 1989, 42% avg. Soybeans 3% poor, 85% fair, 12% good; 6% combined, 4% 1989, 10% avg. Dry edible beans 15% poor, 68% fair, 17% good; 61% combined, 30% 1989, 33% avg. Sunflower 7% poor, 35% fair, 53% good, 5% excellent; 41% bracts turned brown, 39% 1989, 34% avg. Potatoes 46% very poor, none poor, 54% fair; 22% dug, 29% 1989, 34% avg. Sugarbeets 17% poor, 66% fair, 17% good; 1% lifted, 1% 1989, 5% avg. Winter wheat 57% planted, 61% 1989, 49% avg. Rye 50% planted, 59% 1989, 50% avg. Pastures 18% very poor, 56% poor, 26% fair. Stockwater 12% very short, 42% short, 46% adequate.

OHIO: Warm, humid early in period giving way to cool, less humid conditions. Temperatures up to 2° above normal. Highs upper 70s; average lows 50s. Extremes upper 30s to mid 80s. Rainfall 0.50 in. with many areas receiving 1.00 to 2.00 in.

Days suitable for fieldwork 3.6. Soil moisture 2% short, 74% adequate, 24% surplus. Rains limited days suitable for fieldwork. Activities included harvesting hay, fruits, vegetables; seeding canola, grasses, legumes; preparing for winter wheat seeding. Corn good; maturing rapidly. Soybeans maturing fast; shedding leaves. Many stands green, need sunny weather, late frost to mature. Hay good. Pastures 1% very poor, 3% poor, 23% fair, 59% good, 14% excellent. Heavy rain damaged some new forage seedings. Vegetable, fruit harvests advancing. Tobacco cutting, housing continued.

OKLAHOMA: Temperatures normal Panhandle to 3° above normal northeast. Precipitation 0.26 in. northeast to 1.13 in. east central.

Days suitable for fieldwork 6.5. Topsoil 97% short, 3% adequate. Subsoil 70% short, 30% adequate. Wheat 12% planted, 15% 1989, 15% avg. Cotton 45% fair, 47% good, 8% excellent; 15% open bolls, 5% 1989, 20% avg. Sorghum 30% poor, 30% fair, 40% good; 80% coloring, 95% 1989, 90% avg.; 10% mature, 15% 1989, 25% avg. Soybeans 80% setting pods, 98% 1989, 95% avg.; 3% mature, 30% 1989, 15% avg. Peanuts 12% mature, 40% 1989, 30% avg. Corn 25% harvested, 35% 1989, 55% avg. Pastures 20% poor, 60% fair, 20% good. Cattle good; marketings stable, prices steady to up from preceding week.

OREGON: Temperatures above normal statewide; 2 to 6° higher than normal. Cooling trend began on 13th. Measurable precipitation along coast, in Willamette Valley. East of Cascades dry except for a trace of precipitation at Klamath Falls.

Soil moisture 60% short, 40% adequate. Barley 83% harvested, 85% 1989, 93% avg.; 1991 crop 2% planted, 0% 1990, 1% avg. Late grain harvest continued mainly in Baker, Klamath Cos. Grain seeding major activity east. Late alfalfa hay harvest continued. Mint harvest winding down Willamette Valley. Red Clover seed harvest continued Washington Co., Willamette Valley.

Winter pear harvest continued Hood River, Medford, Lane Co. Apples picked Milton Freewater, Hood River, Willamette Valley. Prune harvest began mid Willamette Valley. Fall raspberries, everbearing strawberries harvested, other berry picking complete. Sweet corn harvest continued. Snap bean harvest complete. Onion harvest neared finish west, still going strong Malheur Co. Potato harvest continued Hermiston Boardman area, Malheur Co. Livestock good to excellent. A little pneumonia in calves Baker Co. Range, pasture 9% poor, 46% fair, 35% good, 10% excellent. First killing frost occurred many eastern locales.

PENNSYLVANIA: The Commonwealth had both above normal temperature, precipitation. Temperature 67°, 2° above normal. Extremes 41°, 90°. Precipitation 1.18 in., 0.33 in. above normal.

Days suitable for fieldwork 4. Soil moisture 2% short, 80% adequate, 18% surplus. Corn 98% silk, 100% 1989, 100% avg.; 83% dough, 75% 1989, 92% avg; 40% dent, 31% 1989, 63% avg; 4% mature, 4% 1989, 16% avg.; 0% harvested, 0% 1989, 1% avg. Ensilage corn harvested 11% complete, 11% 1989. Corn 1% very poor, 4% poor, 18% fair, 52% good, 25% excellent. Soybean 2% poor, 22% fair, 48% good, 28% excellent. Wheat planted 11% complete, 24% 1989. Oat harvest 99% complete, 100% 1989. Barley planted 17% complete, 22% 1989. Tobacco harvest 81% complete, 78% 1989. Potato harvest 37% complete, 52% 1989. Second cutting alfalfa 96% complete, 93% 1989. Third cutting alfalfa 62% complete, 58% 1989. Fourth cutting alfalfa 18% complete, 26% 1989. Second cutting clover timothy 87% complete, 80% 1989. Quality of hay made mostly fair. Feed from pasture 2% very poor, 8% poor, 67% fair, 23% good. Apple harvest 30% complete, 36% 1989. Peach harvest 93% complete, 87% 1989. Grapes harvest 30% complete, 22% 1989. Fall plowing 43% complete, 40% 1989. Activities: Harvesting hay, haylage, potatoes, tobacco, corn silage, fruits, vegetables; repairing fence; weed, insect control; fall plowing, planting; maintaining machinery; caring for livestock.

PUERTO RICO: Rainfall of 2.22 in. was 0.38 in. above normal. Highest rainfall was 10.48 in. at Dos Bocas, 8.62 in. at Rio Blanco lower, 8.07 in. at Pico Del Este Luquillo. Highest 24 hour was 4.05 in. at Rio Blanco lower. Divisional temperature about 82° on the Coast, 75 to 78° at Pico del Este Luquillo to 85° at Roosevelt Roads N.S. Extremes 58°, 94°.

SOUTH CAROLINA: Temperatures 2 to 3° warmer than usual in Piedmont to 4 to 5° above normal near south coast. Rainfall varied less than 0.50 in. south to around 2.00 in. in northwest.

Days suitable for fieldwork 5.4. Soil moisture 7% very short, 64% short, 29% adequate. Cotton 72% poor, 27% fair, 1% good, 67% open bolls, 38% 1989, 61% avg.; 6% harvested, 0% 1989, 3% avg. Soybeans 9% poor, 55% fair, 36% good, 87% setting pods, 87% 1989, 87% avg.; 8% leaves turning, 16% 1989, 12% avg.; 0% shedding leaves, 2% 1989, 3% avg. Corn poor to fair, 80% harvested, 52% 1989, 58% avg. Sorghum fair, 42% harvested, 28% 1989, 26% avg. Tobacco fair, 91% harvested, 91% 1989, 95% avg.; 33% stalks destroyed, 38% 1989, 34% avg. Peanuts fair, 8% harvested, 15% 1989, 8% avg. Pastures 1% very poor, 17% poor, 50% fair, 32% good.

SOUTH DAKOTA: Temperatures 5 to 10° above normal. Extremes 35°, 101°. Precipitation spotty. Maximum 0.36 in. Harvest season precipitation since 2nd generally below normal. Range 1.47 in. above to 1.31 in. below normal. Growing degree days 24 units below to 438 units above normal.

Days suitable for fieldwork 6.3. Subsoil 25% critically short, 46% short, 29% adequate. Topsoil

29% critically short, 54% short, 17% adequate. Range, pasture 3% very poor, 18% poor, 41% fair, 37% good, 1% excellent. Crop conditions mostly good. Hot weather causing crops to progress rapidly. Common corn smut, wheat streak mosaic, grasshopper, green bug, corn borer, Canada thistle, giant rag weed problems reported. Major activities silage harvest, winter grain seeding, fall tillage, fencing.

TENNESSEE: Cloudy, wet weather pattern over State much of week. Cold front moved through State late week, bringing drier, cooler air. Temperatures slightly above normal most sections, below normal Plateau. Precipitation above normal statewide.

Days suitable for fieldwork 4.6. Soil moisture 23% very short, 40% short, 35% adequate, 2% surplus. Corn 64% mature, 75% 1989, 77% avg.; 58% harvested for silage, 80% 1989, 81% avg.; 12% harvested for grain, 10% 1989, 20% avg. Cotton 60% open bolls, 40% 1989, 62% avg.; 5% very poor, 7% poor, 81% fair, 7% good. Sorghum 58% mature, 60% 1989, 74% avg.; 8% harvested for grain, 22% 1989, 34% avg. Soybeans 20% shedding leaves, 16% 1989, 20% avg.; 8% mature, 7% 1989, 8% avg.; 4% very poor, 29% poor, 53% fair, 14% good. Burley tobacco 78% harvested, 74% 1989, 74% avg. Dark fired tobacco 78% harvested, 84% 1989, 74% avg. Dark air cured tobacco 82% harvested, 84% 1989, 74% avg. Pastures 10% very poor, 36% poor, 39% fair, 14% good, 1% excellent. Cattle 1% very poor, 2% poor, 49% fair, 46% good, 2% excellent. Fall harvest, land preparation main activities.

TEXAS: Upper air disturbance developed over central early week, triggered showers, thunderstorms eastern, central counties, some very heavy rainfall totals. Showers parts west. Easterly wave enhanced shower activity coast, south central mid week. Temperatures mild in rain areas. Warmer, drier weather followed end of week; another upper air disturbance brought rain western, southwestern areas late weekend. Temperatures below normal most of State, normal parts north. Rainfall much above normal northeast, slightly above normal elsewhere. Amounts below normal Lower Valley, parts north.

Crops: Harvest corn silage continued, some weather interruptions High Plains. Fields grain continued dry down, harvest begin soon. Harvest other areas virtually completed last week despite some rain. Grain sorghum harvest areas virtually completed last week, despite some rain. Grain sorghum harvest beginning Plains late last week. Some headworm problems still showing up. Dry conditions hurt some fields. Harvest winding down Blacklands; rainfall delayed operations. Few scattered fields remained for harvest other areas. Cotton continued mature well Plains. Cooler temperatures helped fields some hotter, drier areas. Scattered hail damage Plains. Defoliation begin soon dryland fields. Rain early week delayed harvest Blacklands. Excessive rain may hurt quality some fields. Harvest delayed some central. Small grain seeding continued Plains, dry conditions slowed emergence some dryland fields. Irrigated fields emerging well. Planting increasing Blacklands, showers delayed operations. Added moisture help planting conditions. Wheat emerged 2%, 3% 1989, 1% avg. Soybeans beginning lose leaves High Plains. Harvest begin soon. Harvest delayed Blacklands. Upper Coast, rainfall helped later varieties, slightly delayed harvest early varieties. Rice harvest wind down Upper Coast. Recent rainfall help regrowth second crop. Early peanut harvest beginning parts Blacklands. Rain delayed progress some. Some early varieties being dug Low Plains. Harvest delayed some central early week. Other field crops: Peanuts 8%

harvested, 2% 1989, 5% avg. Soybeans 18% harvested, 20% 1989, 15% avg. Sunflower 9% harvested, 5% 1989, 6% avg. Oats 1% planted, 2% 1989, 5% avg.

Commercial Vegetables: Rio Grande Valley, fall vegetables progressing well. Rainfall delayed planting, land preparations some. San Antonio Winter Garden, planting operations increasing. Eastern State early week rain slowed harvest some. Moisture help recently planted fields. High Plains, harvest cucumbers, carrots, cabbage continued. Trans Pecos, isolated hail damage bell peppers. Chile harvest continued. Pecans remained varied stage across State. Rainfall slowed drop many areas. Harvest begin soon southern State light basis. Some spraying continued.

Range and Livestock: Recent rainfall improved conditions many parts State. Haying operations slowed some early week. Cooler temperatures helped growth. Producers fertilizing after rain. Livestock conditions holding steady, should improve with added forage. Range, pasture 4% very poor, 15% poor, 49% fair, 28% good, 4% excellent.

UTAH: Temperatures 10° above normal. Precipitation was almost normal.

Days suitable for fieldwork 7.0. Soil moisture short all locations. Corn silage, alfalfa seed, onion, peach, apple harvests continued. Dry soil conditions delayed winter wheat seeding in Utah County; elsewhere planting continued near normal. Winter wheat seeding 52% completed, 45% 1989, 57% avg. Third crop alfalfa hay 72% cut, 83% 1989, 67% avg. Field corn in dent stage 70%, 54% 1989, 67% avg.; mature 44%, 56% 1989, 51% avg. Corn silage harvested 24%, 26% 1989, 32% avg. Davis County peach crop excellent size, below normal quality. Winter range feed limited due to low moisture. Non irrigated range, pasture 3% very poor, 49% poor, 48% fair.

VIRGINIA: Temperatures 3 to 4° above normal. Rainfall 0.75 in. to 1.00 in.

Days suitable for fieldwork 5.3. Topsoil 2% very short, 37% short, 52% adequate, 9% surplus. Corn dented 86%, 89% 1989, 86% avg.; mature 67%, 63% 1989, 68% avg.; grain harvest 25% completed, 33% 1989, 24% avg.; silage 38% cut, 27% 1989, 43% avg. Soybean harvest just beginning; 1% poor, 49% fair, 49% good, 1% excellent. Flue tobacco 71% harvested, 67% 1989, 56% avg. Fire tobacco 92% harvested, 93% 1989, 73% avg. Burley harvested 62%, 67% 1989, 48% avg. Sun cured harvested 81%, 60% 1989, 76% avg. Wheat seeded 5% complete, 1% 1989, 1% avg. Barley 4% seeded, 2% 1989, 3% avg. Oats seeded 4%, 2% 1989, 3% avg. Sweetpotato, apple harvest continued. Apple yields poor to fair. Peanut 50% fair, 50% good. Pasture 2% very poor, 10% poor, 45% fair, 37% good, 6% excellent. Harvesting cucumber, snap beans, peppers, squash. Some quality problems with vegetables due to excess rainfall.

WASHINGTON: Temperatures 2 to 7° above normal, east; 6° below normal to 3° above normal west. Precipitation none to 0.06 in. east; none to 0.13 in. west.

Days suitable for fieldwork 7.0. Soil moisture 50% short, 50% adequate. Range, pasture 27% poor, 45% fair, 28% good. Hay, other roughage 99% adequate, 1% surplus. Winter wheat planted 40%, 33% 1989, 42% avg. Winter wheat emerged 20%, 21% 1989, 22% avg. Potatoes harvested 38%, 32% 1989, 31% avg. Dry beans harvested 30%, 14% 1989, 43% avg. Alfalfa hay 3rd cutting 85%, 83% 1989, 84% avg. The small grain harvest was coming to a close. The remaining crop harvest was delayed by earlier rains. Planting of winter crops was underway. The apple, pear harvests continued.

(Continued to back cover)

International Weather and Crop Summary

HIGHLIGHTS

September 9-15, 1990

USSR ... In Western USSR, unsettled weather continues to create unfavorable conditions for fieldwork. In the New Lands, unseasonable warm, dry weather in Kazakhstan and the central portion of Western Siberia allows rapid harvest progress.

EUROPE ... Moderate to heavy rain in the northeast continues to cause harvest and fall fieldwork delays. Mostly dry weather in the west favors summer crop harvest.

EASTERN ASIA ... Heavy rain causes flooding in sections of southeastern China and the Korean Peninsula. Unseasonably warm, dry weather persists in sections of south-central China.

SOUTH ASIA ... Showers increase irrigation reserves in most areas for immature crops and upcoming plantings.

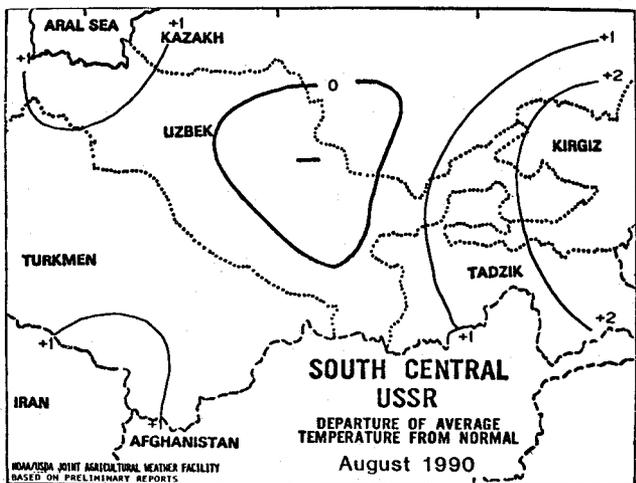
SOUTHEAST ASIA ... Beneficial showers improve conditions for secondary Thai crops. Typhoon Ed hits the northern Philippines.

SOUTH AMERICA ... Drier weather returns to Argentina. More rain soaks south-central Brazil's wheat area.

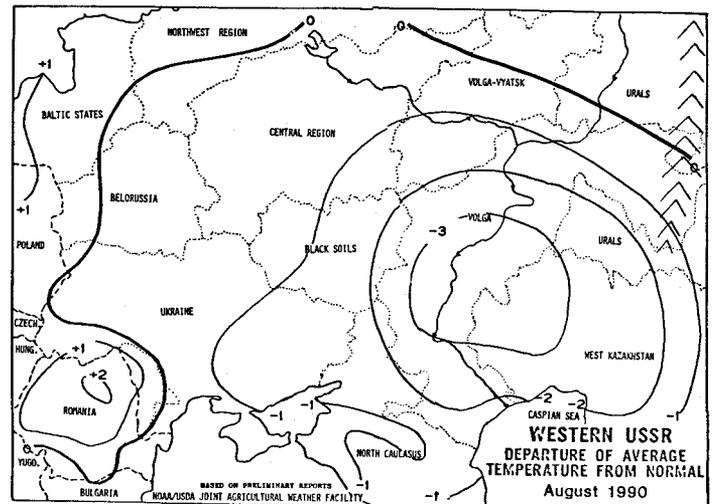
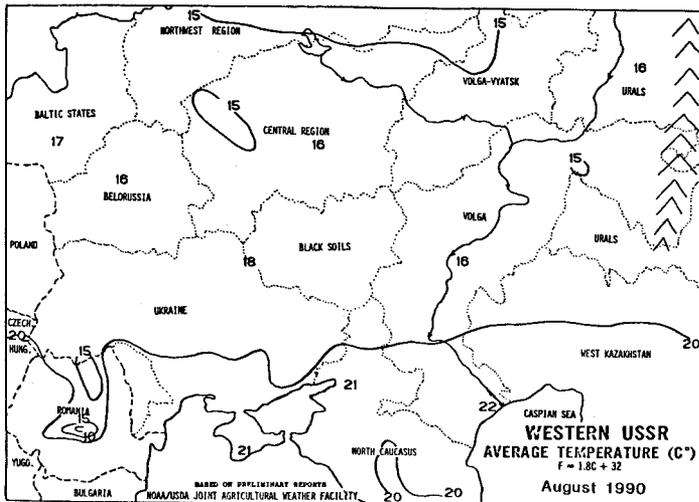
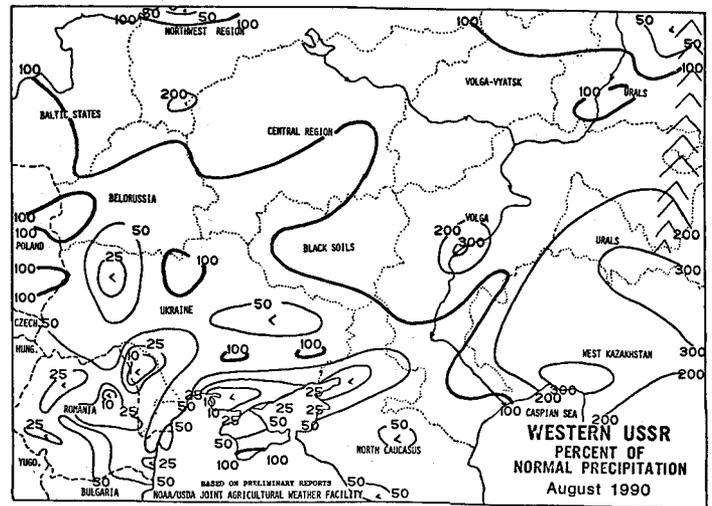
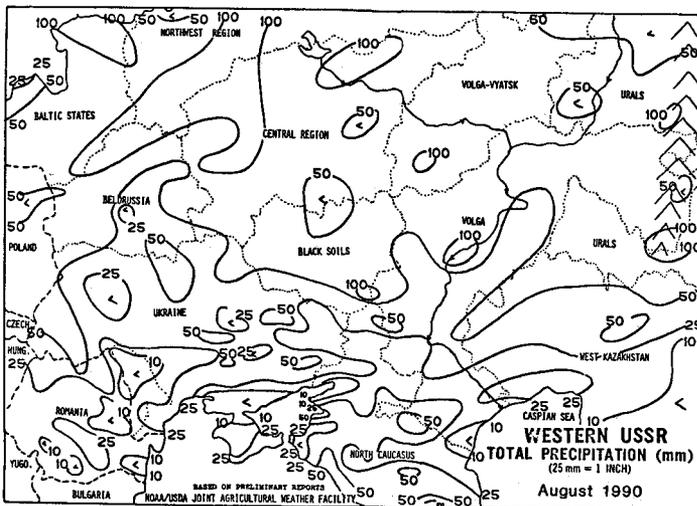
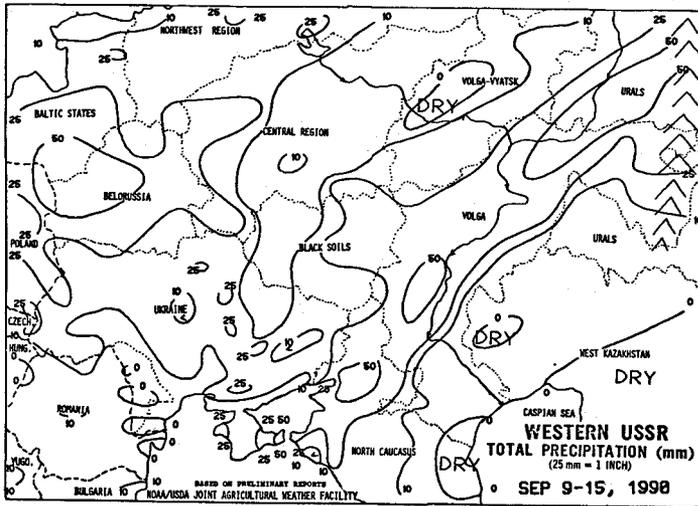
AUSTRALIA ... Rain benefits winter grains in most growing areas.

CANADA ... Favorable harvest weather continues.

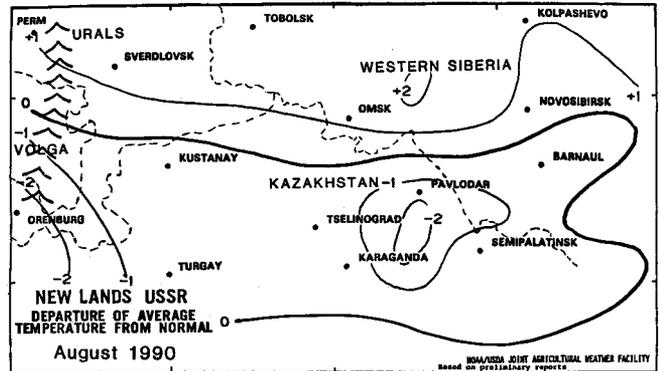
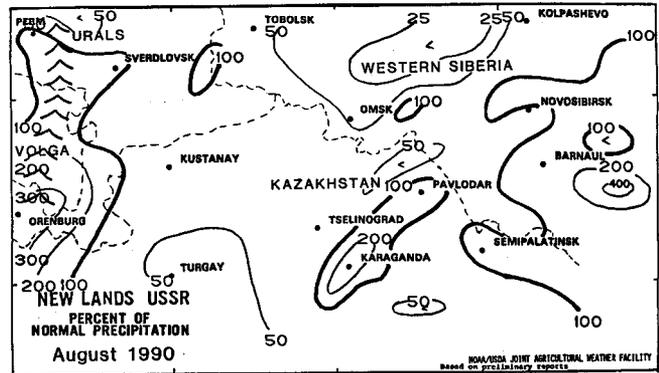
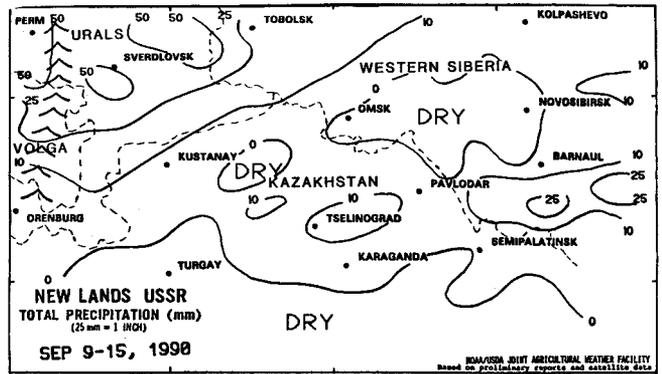
MEXICO ... Late-season rain benefits immature crops.



USSR ... Unsettled weather continued over the region. The most rain (25-68mm) covered the southern Baltic States, Belorussia, the eastern Black Soils Region, the northern North Caucasus, Volga Valley, and the western Urals. Persistent rain over the southern Baltic States and Belorussia has waterlogged fields, creating unfavorable conditions for root crops such as potatoes and sugarbeets, and causing significant delays in grain harvesting. Drier weather in the Central Region, the western Black Soils Region, and the Volga Vyatsk allowed some harvesting. Wet weather in the Volga Valley delayed harvest. In the Ukraine and North Caucasus, widespread light to moderate rain (10-50mm) slowed corn harvesting but increased topsoil moisture for winter grain planting. In August, small grains harvesting progressed slowly, while planting of 1991 winter grain crops began in northern areas. Frequent rains began on August 12 and continued throughout the month over the Baltic States, eastern Belorussia, the Central Region, Black Soils Region, Volga Vyatsk, and the upper Volga, producing near- to above-normal precipitation for the month. The rain caused major delays in small grain harvest and slowed fieldwork for winter grain planting. Although below-normal August precipitation in the Ukraine and North Caucasus helped harvests, it continued to limit moisture for filling corn and sugarbeets.



NEW LANDS .. Unseasonable warm, dry weather over most of Kazakhstan and the central portion of Western Siberia allowed spring grain harvesting to progress at a rapid pace. Wet weather (25-61mm) over the northern Urals delayed harvest. In August, above-normal precipitation over the Urals and the eastern portion of Western Siberia benefited spring grains which advanced through the filling stage. In Kazakhstan, below-normal precipitation and near-normal temperatures favored crop maturation. In south-central USSR areas, warm, dry weather since early-August created favorable conditions for formation of cotton bolls. By August 31, reports indicated bolls were opening on over 93 percent of the area, which was 40 percent more than last year. The cotton harvest was beginning over most of the region.



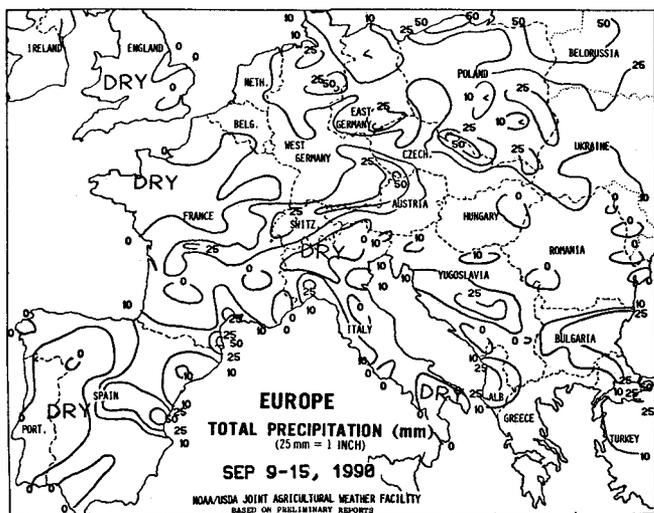
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY Based on preliminary reports and satellite data

NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY Based on preliminary reports

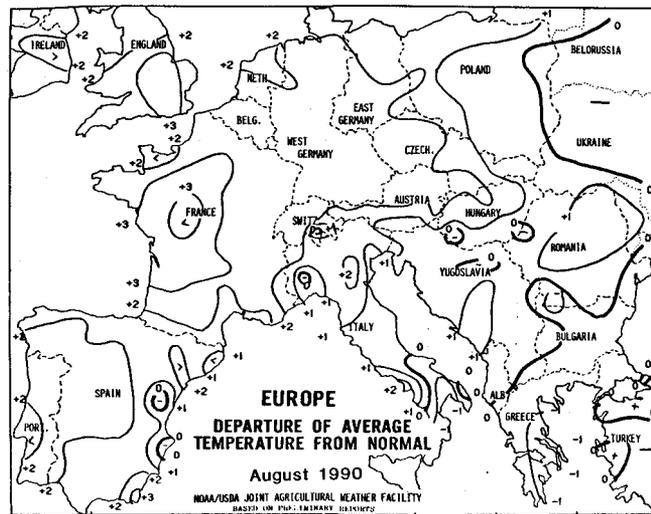
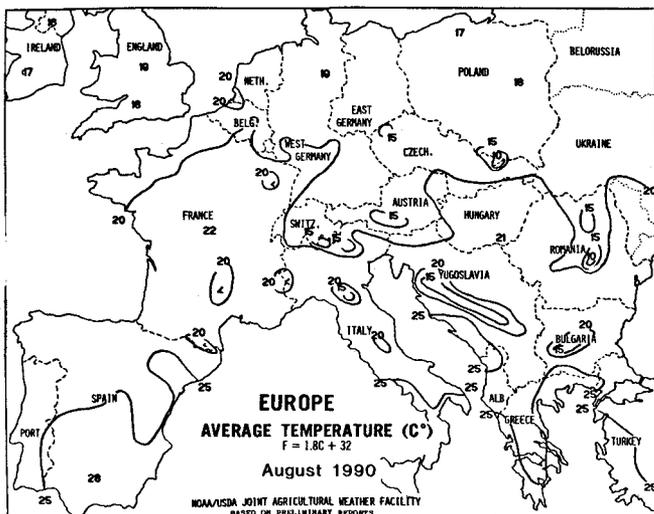
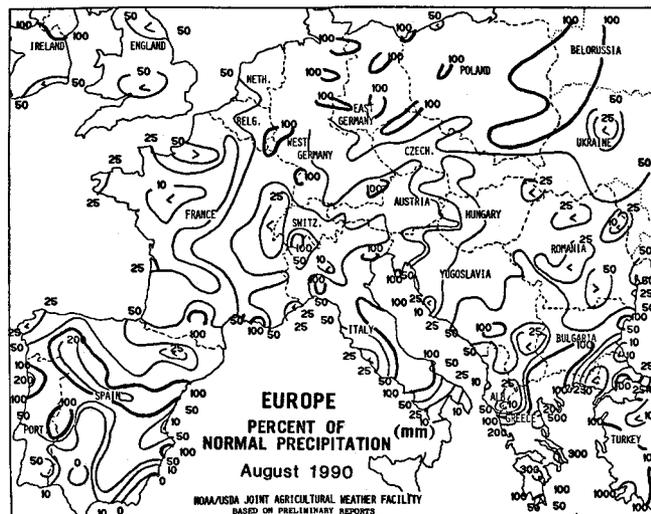
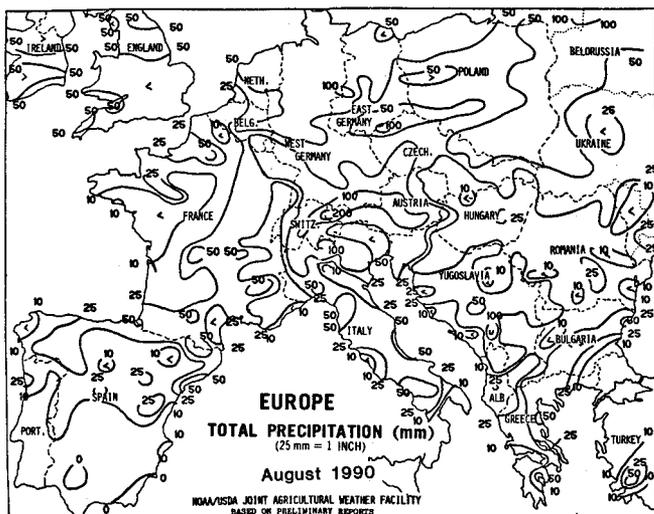
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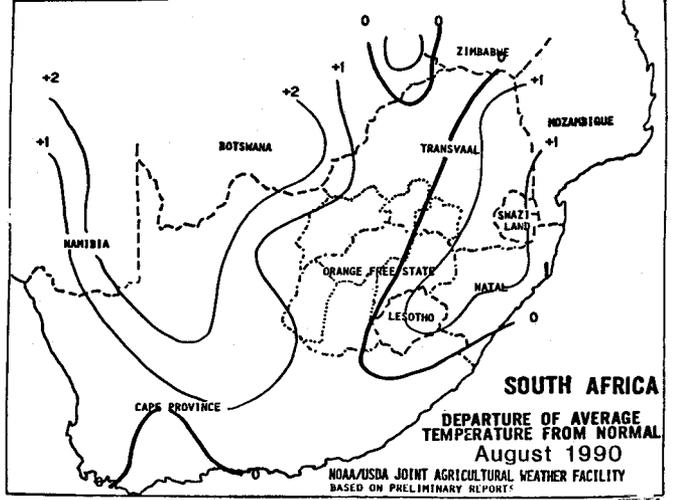
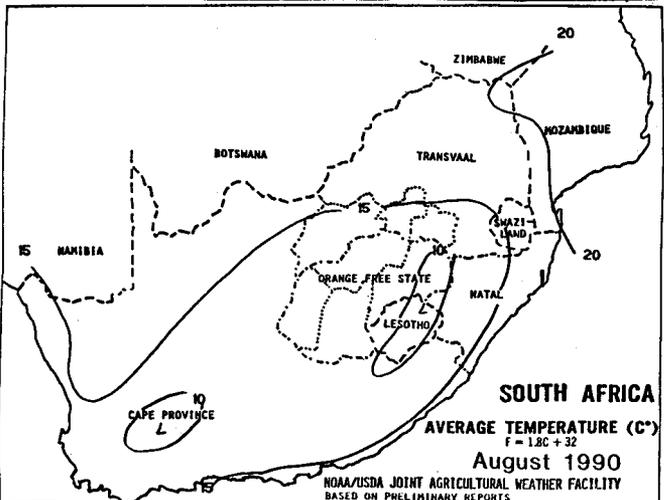
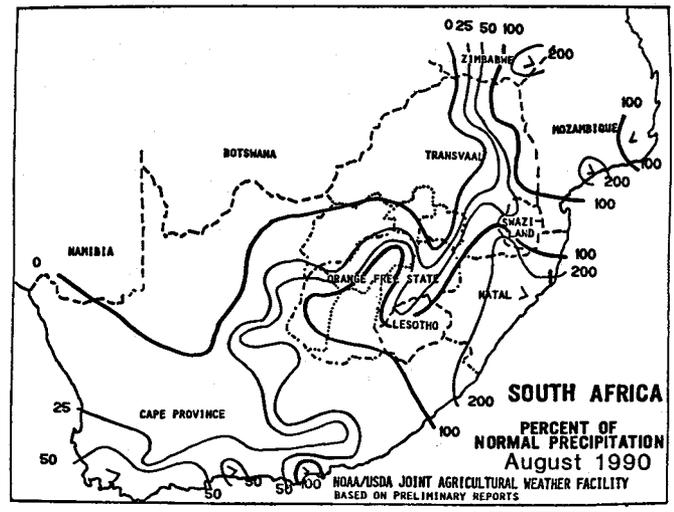
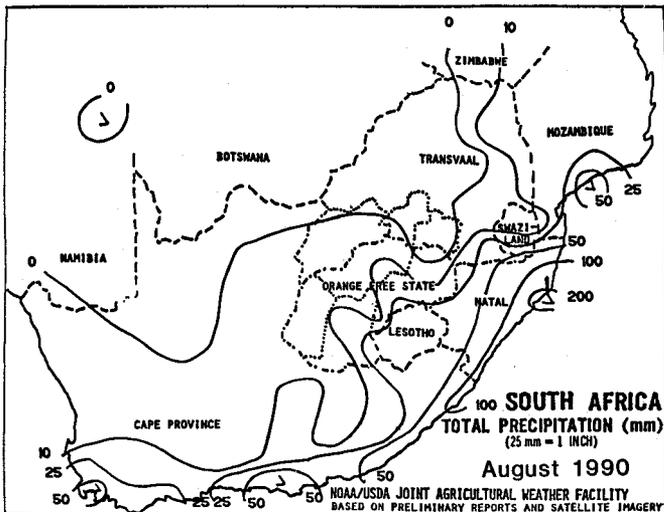
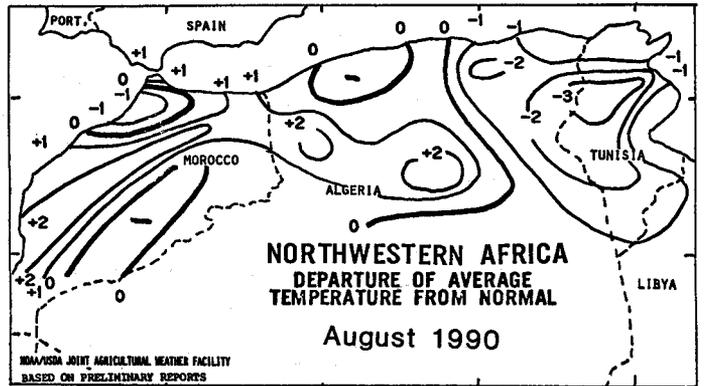
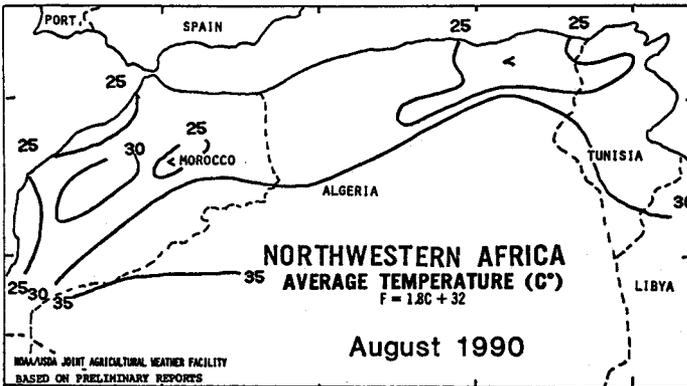
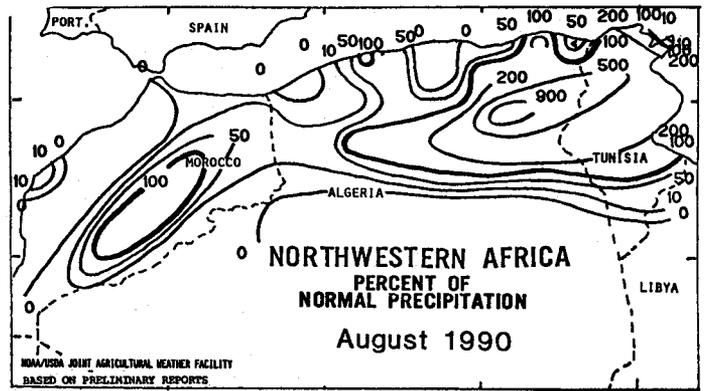
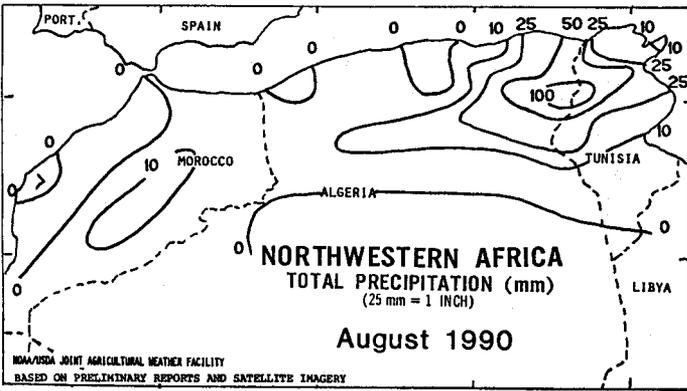
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY Based on preliminary reports

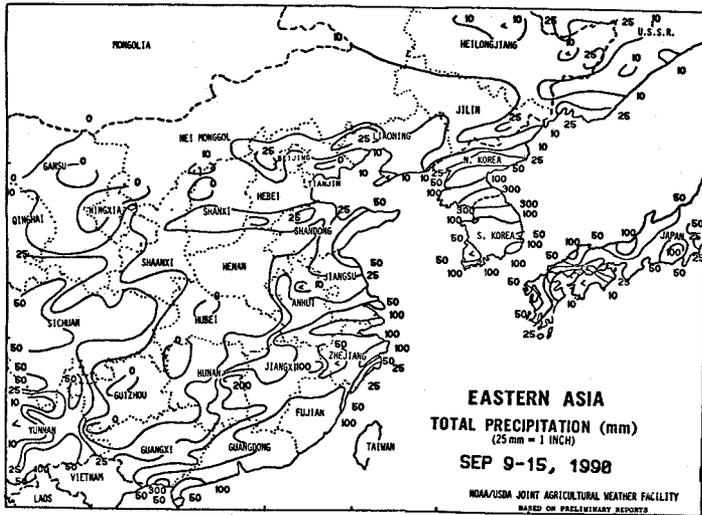
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY Based on preliminary reports



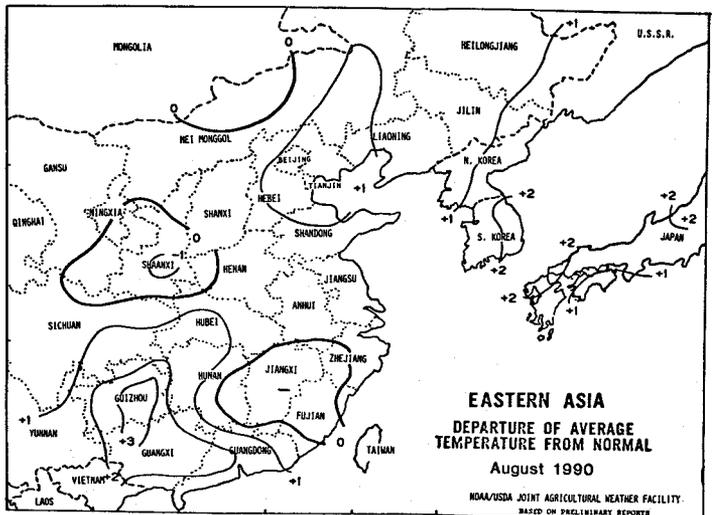
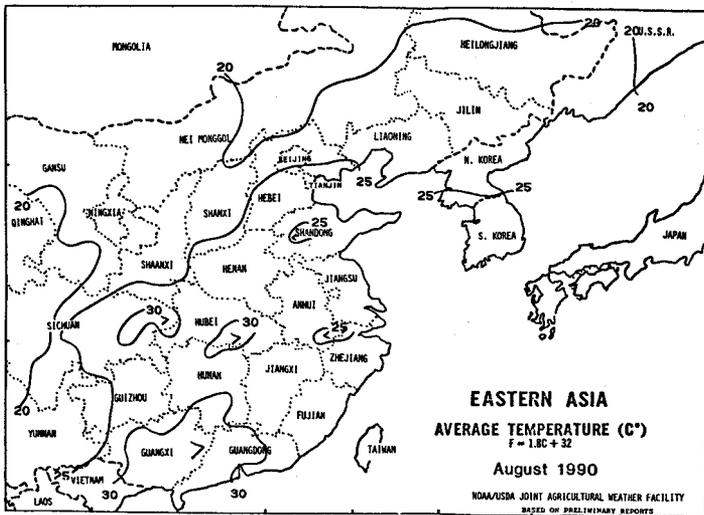
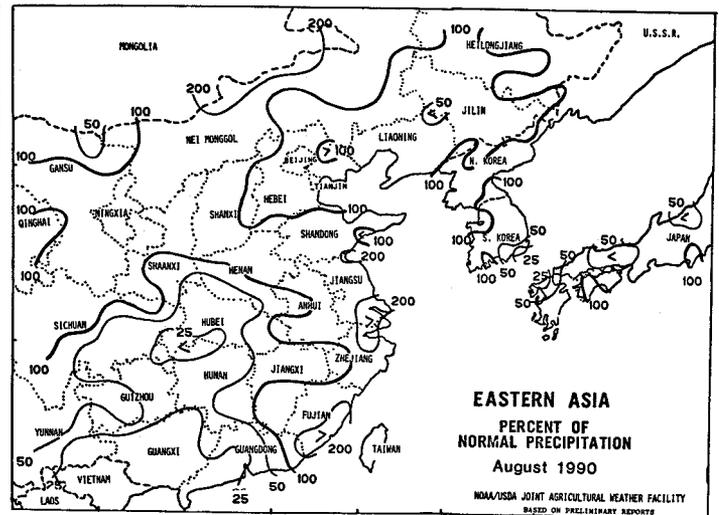
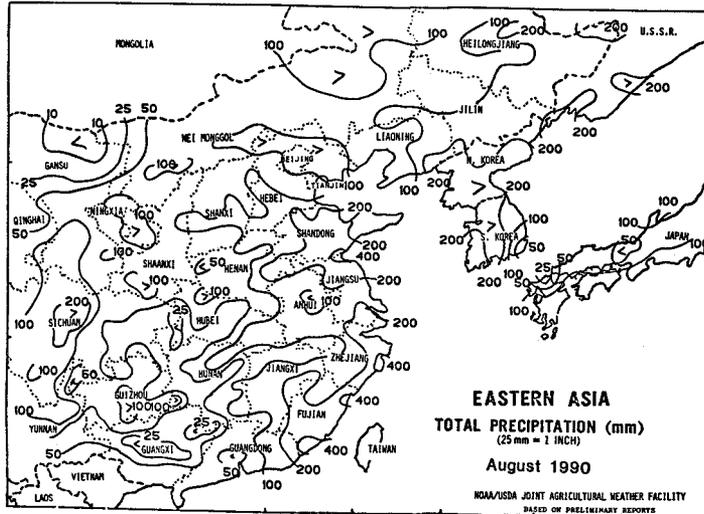
EUROPE ... Moderate to heavy rain (10-40mm, with isolated amounts in excess of 50mm) continued across sections of West and East Germany, Poland, and Czechoslovakia, further increasing preplanting soil moisture for winter grains planting but delaying summer crop harvest. Delays were lengthened by much-below-normal temperatures (mean weekly temperatures 3-6 degrees C below normal) which slowed drying rates. Scattered rain (5-35mm) in sections of the Balkans also delayed summer crop harvest but increased soil moisture levels depleted by much-below-normal rainfall during August and much of the summer. In the west, mostly dry weather allowed rapid progress of summer crop harvest and preplanting fieldwork. Precipitation during August continued much below normal in northwestern Europe, while near-normal rainfall returned to scattered sections of the northeast and southwest.

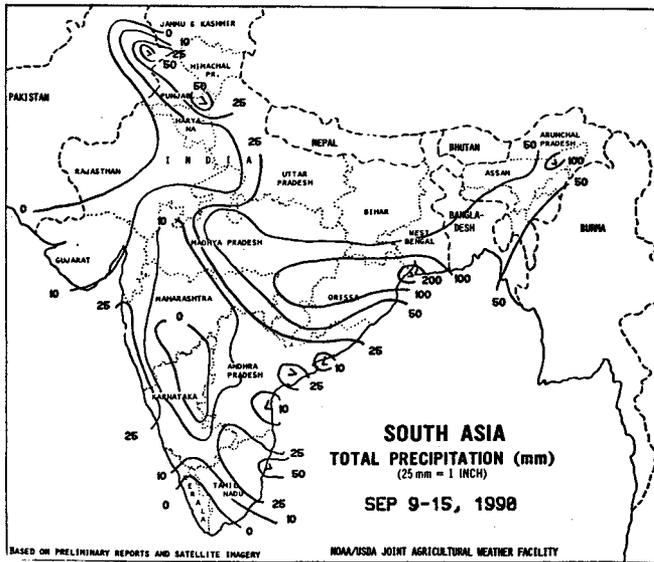




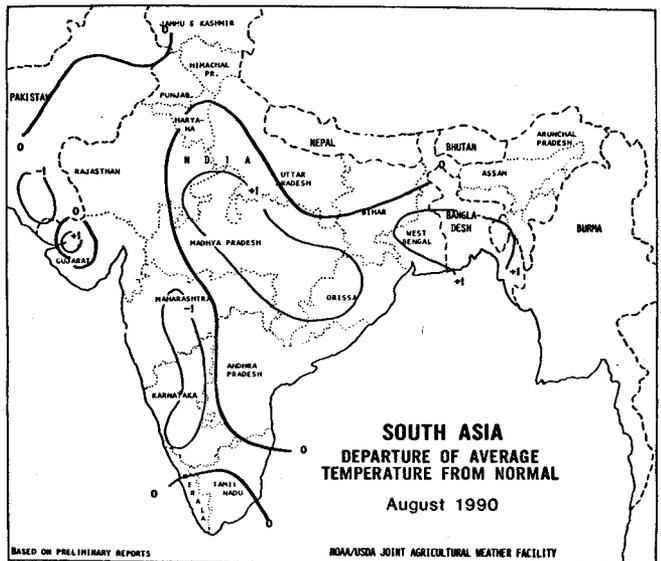
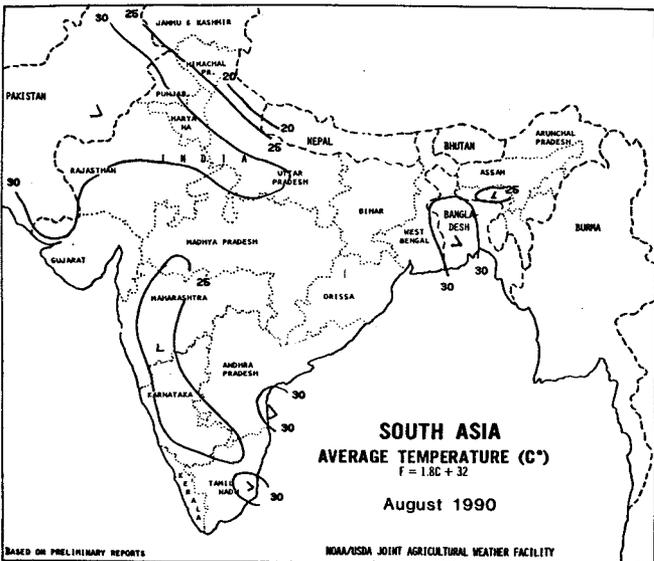
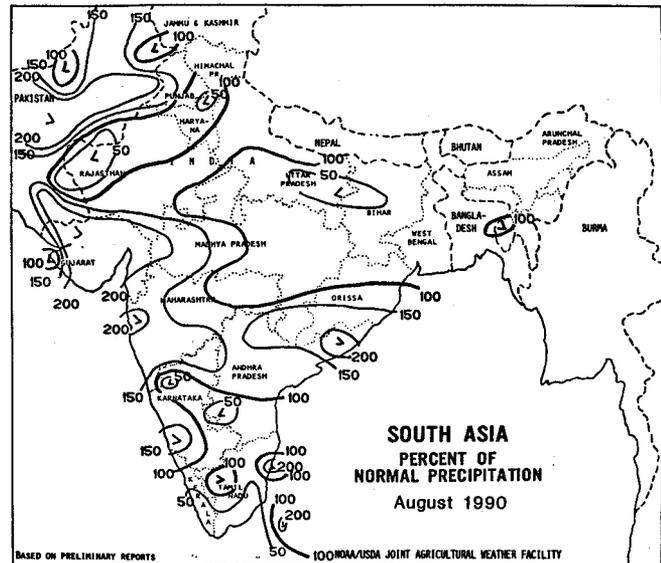
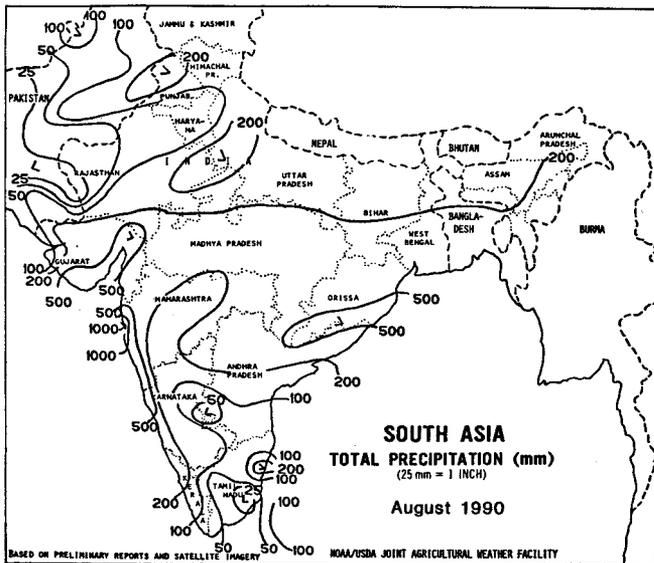


EASTERN ASIA ... A slow-moving frontal system brought heavy rain (25-70mm, scattered amounts greater than 70mm) to much of southern Japan, the Korean Peninsula, and extreme east-central China. Torrential rain (100-370mm) on already saturated soils caused widespread flooding in northern South Korea and southern North Korea. In the south, remnants of Typhoon Dot brought heavy rain (25-150mm, with isolated amounts greater than 150mm) to sections of Guangxi, Guangdong, Fujian, Jiangxi, and Zhejiang, causing further flooding and damage to maturing cotton and single season rice in Zhejiang. In contrast, mostly dry and warm (mean weekly temperatures 2-3 degrees C above normal) weather continued over the middle Yangtze Valley and interior sections of south-central China, stressing late-crop rice and other secondary crops. Drier- and warmer-than-normal weather persisted over much of the south and northeast during August, while above-normal rain fell in eastern coastal sections and in the northwest.

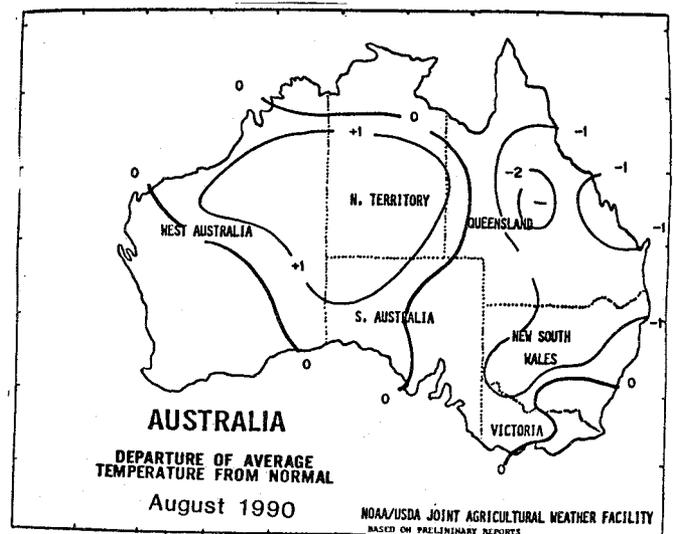
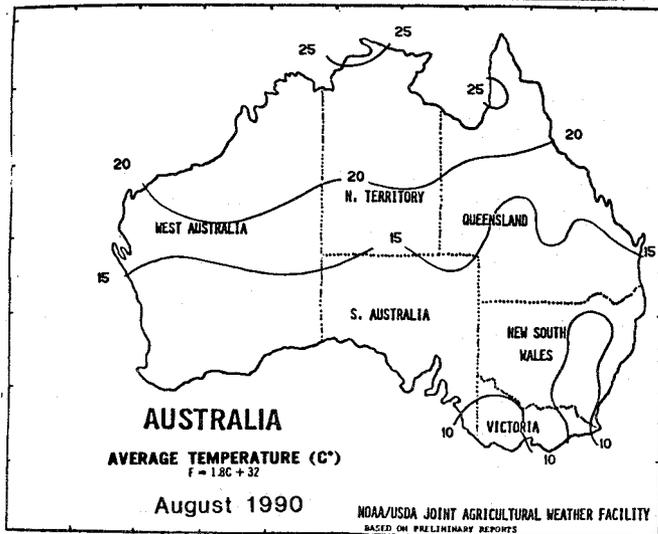
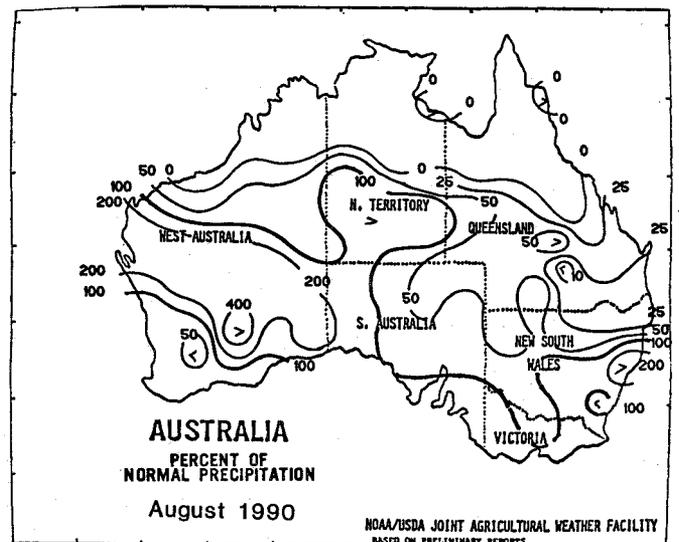
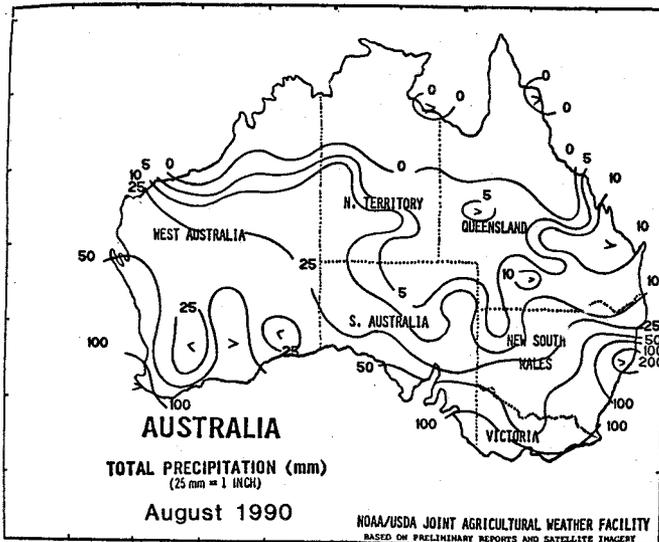
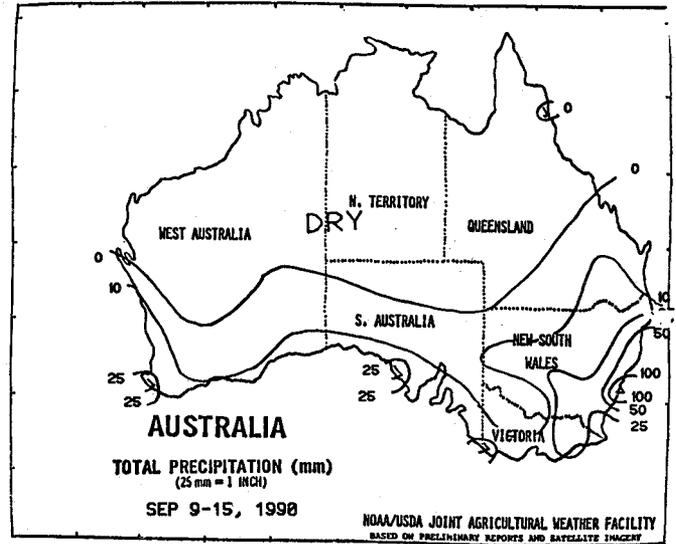


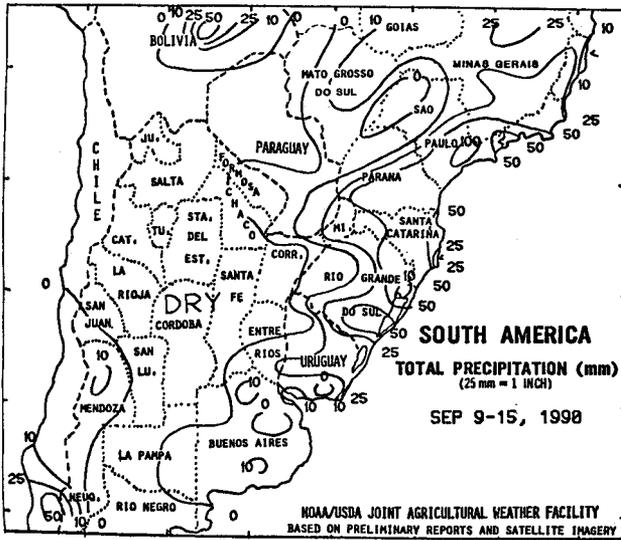


SOUTH ASIA ... Beneficial showers (25-50mm or more) continued over the primary rice areas of eastern India and Bangladesh, and extended northward into primary crop regions of Uttar Pradesh and Bihar that had been tending dry. Excessive rain (100-200mm), however, caused some flooding in the far east and parts of Madhya Pradesh and Orissa. Seasonable rain (14-64mm) maintained favorable conditions for fall crops over India's southern tip, but dry weather dominated primary summer crop regions from Gujarat to Karnataka. In the north, moderate to heavy rain (23-71mm) improved conditions for wheat planting but was unfavorable for maturing cotton and rice following last week's heavy rain. In August, rainfall was below normal over most eastern rice areas from Uttar Pradesh and eastern Madhya Pradesh eastward and in the south from Karnataka southward. Near- to above-normal rainfall elsewhere was beneficial for reproductive to filling summer crops, but inundating rains over Gujarat and western Madhya Pradesh caused flooding and crop damage. August temperatures averaged near normal across the region.

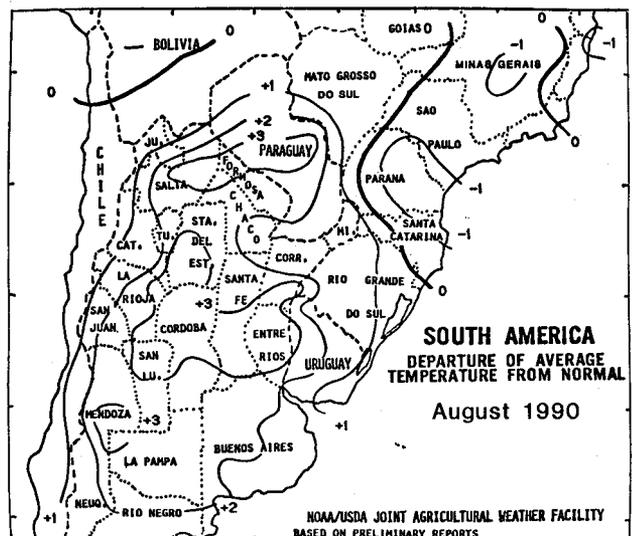
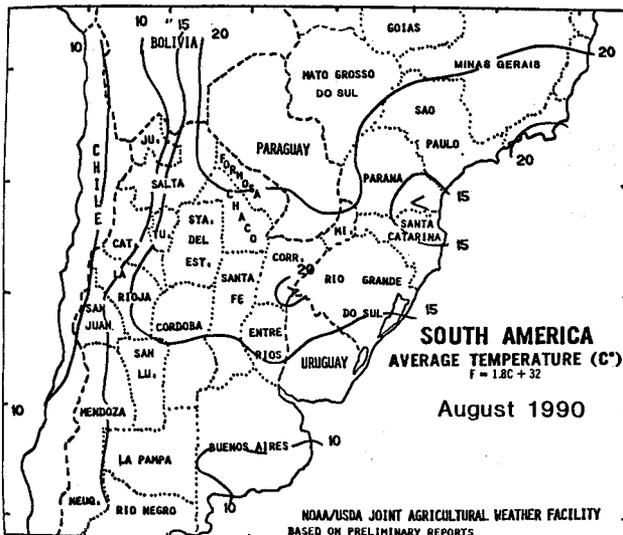
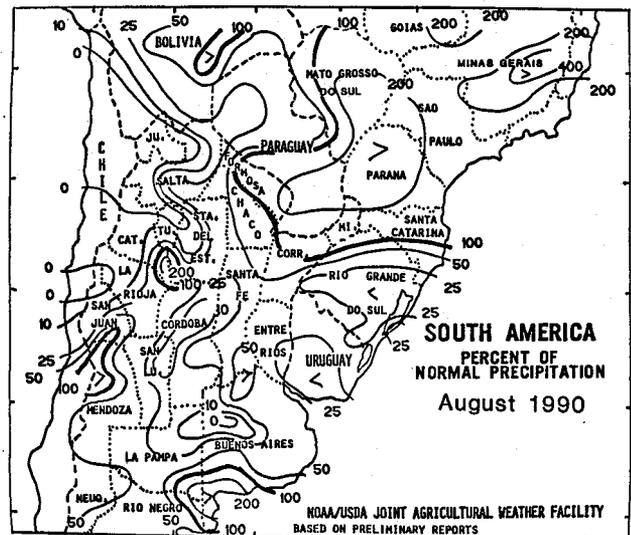
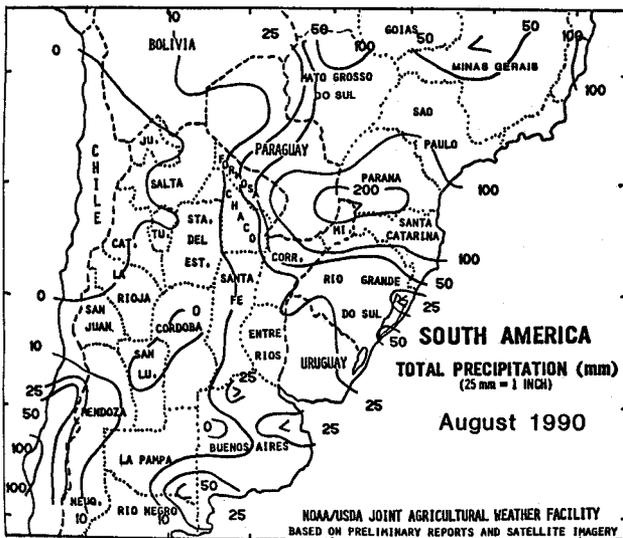


AUSTRALIA ... Rain (10-20mm, with isolated amounts greater than 20mm) fell over nearly all winter grain areas, favoring vegetative growth and reducing earlier dryness, especially in southeastern Queensland and northeastern New South Wales. The rain followed a drier-than-normal trend during much of August over all but southeastern growing areas. In coastal eastern Queensland, seasonal dryness continued to favor sugarcane harvest progress. Temperatures during August were near to below normal in most crop areas.

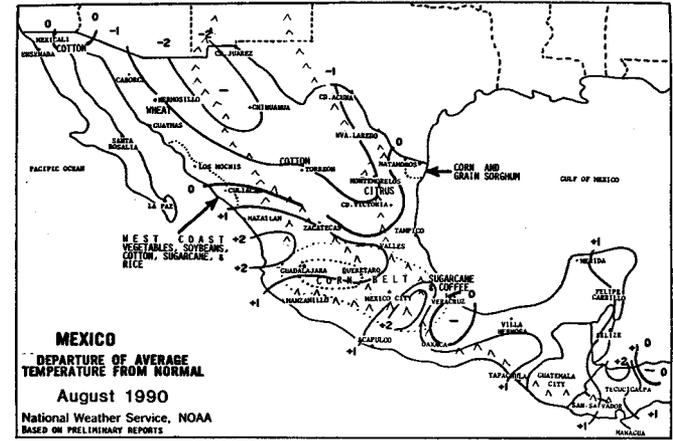
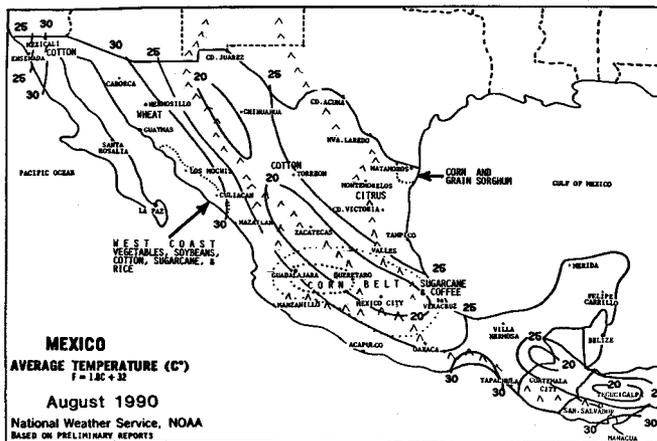
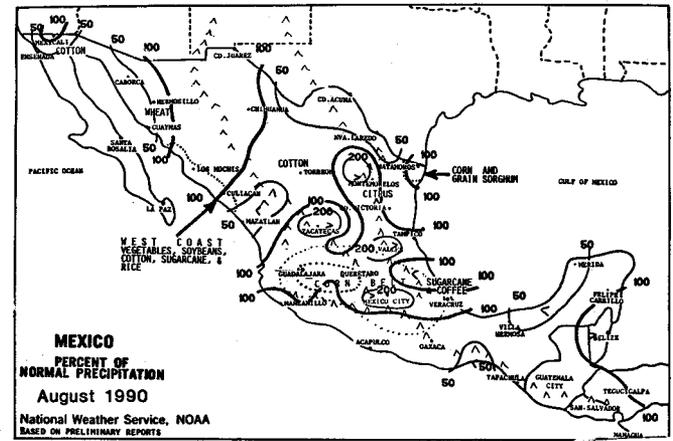
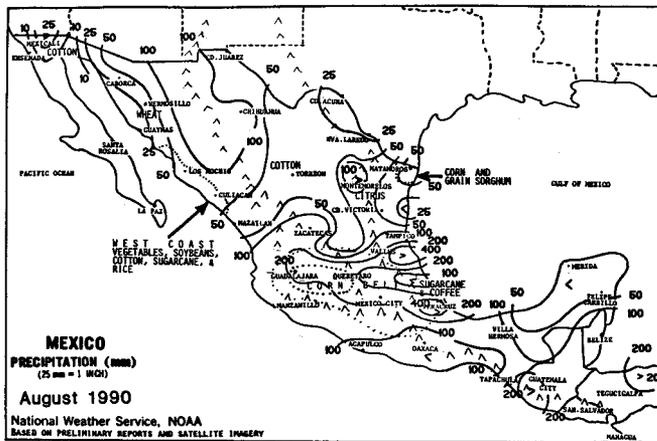
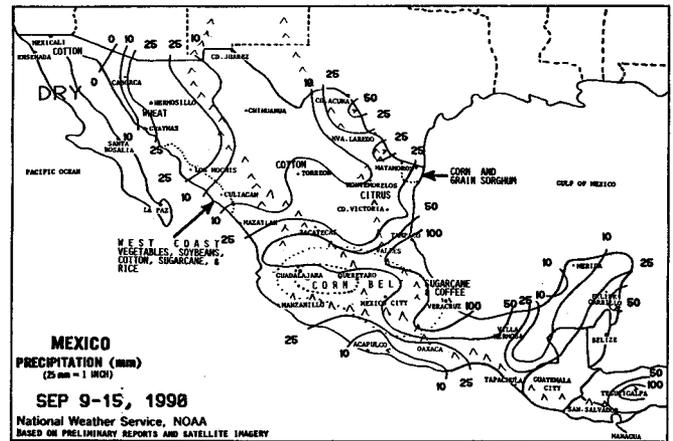


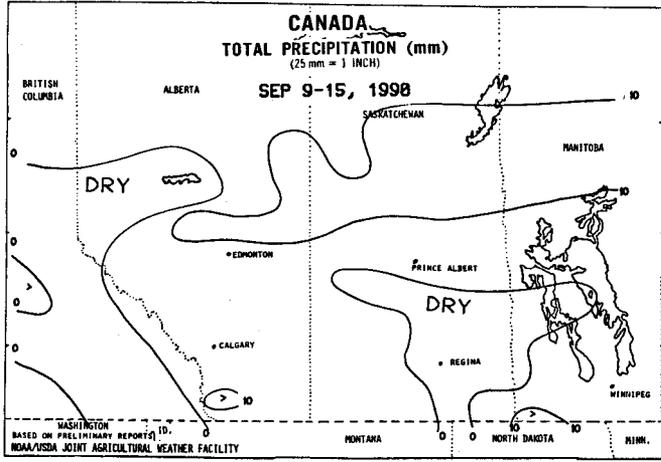


SOUTH AMERICA ... In Argentina, drier weather returned to wheat growing areas although mostly light showers (1-4mm, with isolated amounts of 12mm) were scattered over southern and eastern areas. The previous week's rain eased concern for emerging wheat following well-below-average August rainfall throughout Argentina's primary crop areas. This past week's drier weather aided fieldwork in preparation for spring plantings. In south-central Brazil, more rain fell over the wheat belt as a storm system moved across the region. Weekly rainfall averaged 25-70mm (with scattered amounts in excess of 100mm) in much of Rio Grande do Sul, Santa Catarina, and Parana. Rainfall averaged less than 25mm in southwestern Rio Grande do Sul. August rainfall was well above normal over most of the region, except for Rio Grande do Sul, where monthly rainfall totals were well below average.

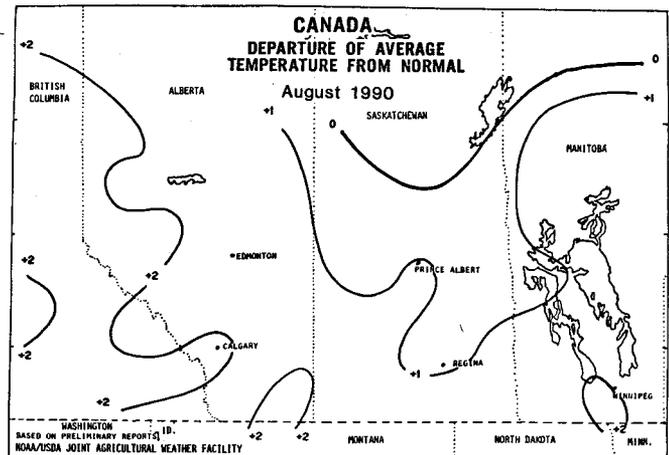
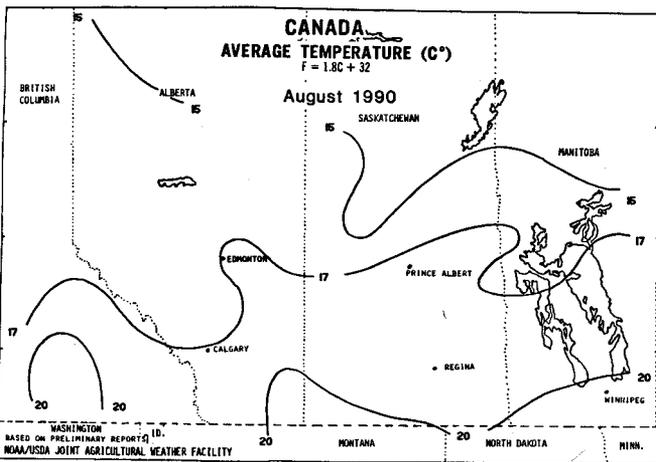
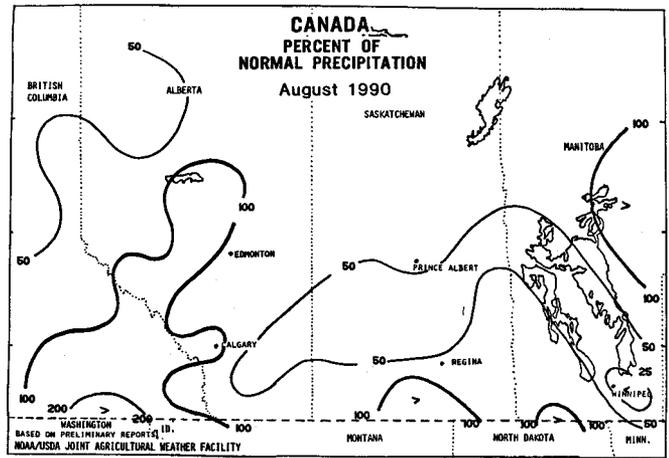
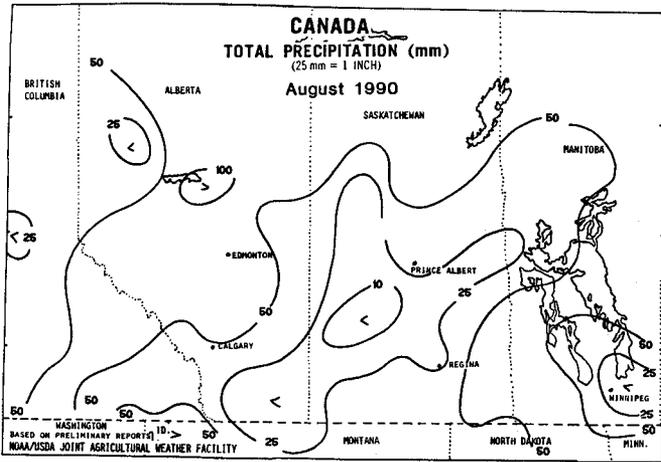


MEXICO ... Late-season rain continued to provide adequate moisture for immature crops in most areas. Showers (10-40mm) in the northwest helped irrigation supplies for the winter wheat planting season which is just underway. Rain in the northeast will also benefit winter vegetable planting. In the Southern Plateau, substantial rain (25-75mm) soaked most all corn growing areas, with heavier rain (75-118mm) along the east-central coast extending into the southern interior. Variable rain (1-25mm) fell over the Yucatan peninsula. August rainfall was above normal in the northwest, the Southern Plateau, and portions of the northeast. Below-average August rainfall was concentrated mostly in north-central and far southern portions of the country.





CANADA ... Mostly dry, warmer-than-normal weather continued across the Prairie Provinces, favoring drydown and harvesting of spring grains and oilseeds. A brief period of light rain (1-3mm) and cool weather during midweek caused minor delays in Alberta, but beneficially drier and warmer weather followed. Local frost in Manitoba and Alberta's Peace River Valley had minimal impact on grains and oilseeds. In August, drier- and slightly warmer-than-normal weather covered most Prairie crop regions, favoring crop maturation. Local frost in northwestern growing areas in late-August caused minor damage but came at the expected time for the first frost of the season.



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(Continued from p. 19)

More varieties of apples were being harvested. The summer vegetable harvest continued.

WEST VIRGINIA: Temperature 69^o, 2^o above normal. Extremes 43^o; 88^o. Precipitation 1.10 in., 0.09 below to 1.08 in. above normal.

Days suitable for fieldwork 3.7. Soil moisture 25% short, 61% adequate, 14% surplus. Pasture 25% fair, 55% good, 20% excellent. Cattle, sheep good. Corn good; 75% dough, 31% mature. Hay good; second cutting 81% complete, third cutting 50% complete. Wheat 9% planted. Apples poor. Tobacco fair to good; 62% harvested. Farm activities: Hay, tobacco harvest, clipping pastures, chopping silage.

WISCONSIN: Temperature 65^o, 4^o above normal. Extremes 37^o; 89^o. Precipitation 0.40 to 2.40 in.

Days suitable for fieldwork 5.7. Soil moisture 15% short, 68% adequate, 17% surplus. Hail, high winds damaged some crops in northern, central areas. Pasture 2% poor, 14% fair, 64% good, 20% excellent. General condition of crops 1% poor, 9% fair, 81% good, 9% excellent. Soybean 87% of normal; 36% turned, 39% 1989, 56% avg.; 6% shed, 9% 1989, 21% avg. Corn 1% poor, 12% fair, 78% good, 9%

excellent; 64% in dent, 67% 1989, 76% avg.; 15% mature, 17% 1989, 38% avg. Corn silo filling 5% complete, 5% 1989, 21% avg. Third cut hay 59% complete, 50% 1989, 59% avg.

WYOMING: Temperatures above normal. Precipitation below normal.

Days suitable for fieldwork 7.0. Topsoil 65% short, 35% adequate. Oats 10% mature, 5% 1989, 10% avg.; 90% harvested, 95% 1989, 90% avg. Dry beans 60% windrowed, 45% 1989, 55% avg.; 30% combined, 15% 1989, 30% avg. Corn 5% milk, 5% 1989, 10% avg.; 30% dough, 30% 1989, 35% avg.; 35% dented, 40% 1989, 45% avg.; 20% mature, 20% 1989, 10% avg.; 10% harvested, 5% 1989. Corn silage 55% harvested, 45% 1989, 30% avg. Sugarbeets small amount dug, small amount 1989. Potatoes 35% harvested, 30% 1989, 15% avg. 1991 winter wheat 65% seeded, 65% 1989, 45% avg.; 25% emerged, 30% 1989, 20% avg. Fair to good. Alfalfa third cutting 45% complete, 50% 1989, 30% avg. Hay, roughage 15% short, 70% adequate, 15% surplus. Current range, pasture 5% very poor, 15% poor, 75% good, 5% excellent. Winter grazing prospects fair to good. Livestock producers plan to winter about the same number of cattle, sheep as last year.

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