

WEEKLY WEATHER AND CROP BULLETIN

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

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

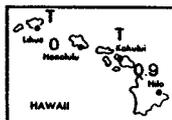
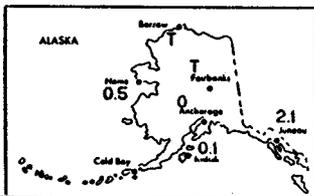
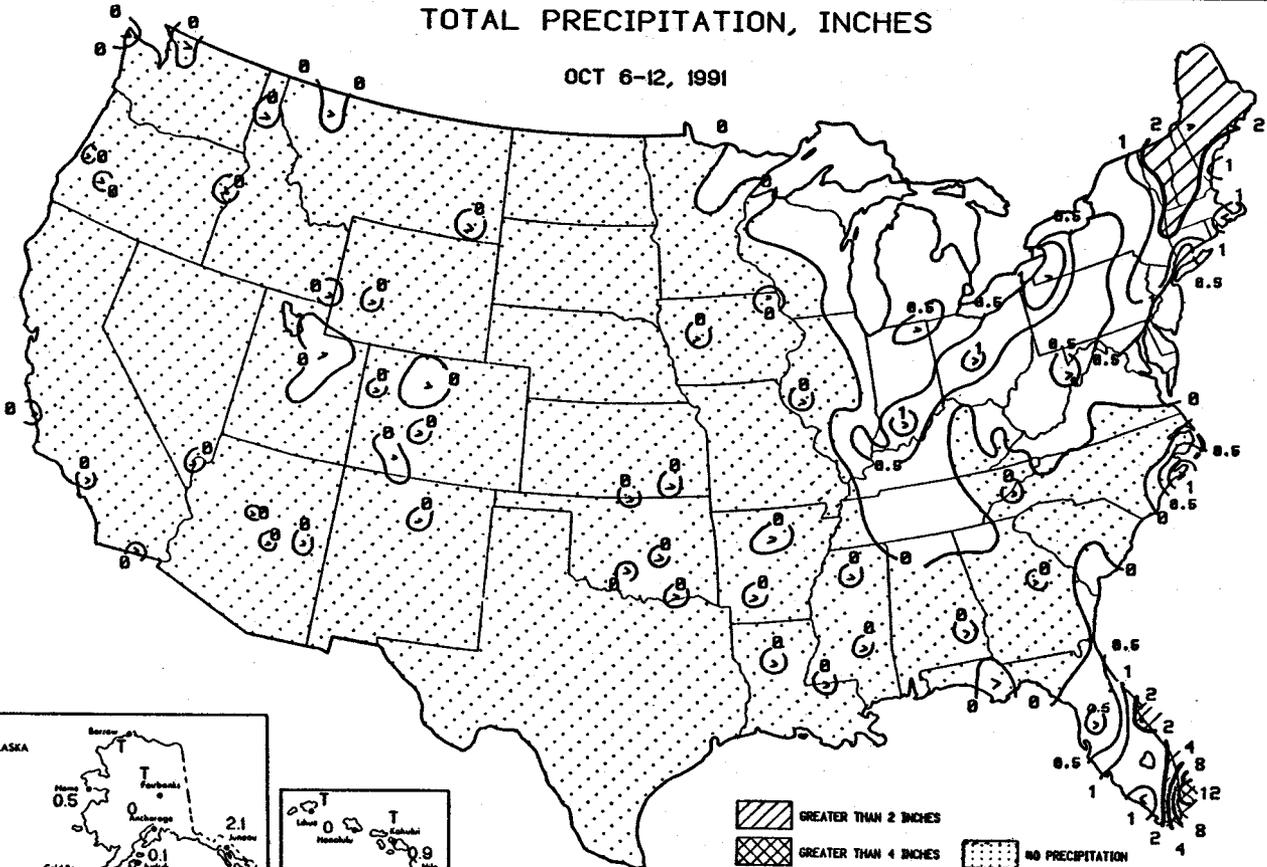
Volume 78, No. 41

Washington, D.C.

October 16, 1991

TOTAL PRECIPITATION, INCHES

OCT 6-12, 1991



GREATER THAN 2 INCHES
 GREATER THAN 4 INCHES
 NO PRECIPITATION

NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY preliminary reports

HIGHLIGHTS

October 6 - 12, 1991

Warm, dry weather continued in the West for a fourth consecutive week, but temperatures fluctuated east of the Rockies in response to the approach and passage of several cold fronts. Appreciable rainfall was confined to the Northeast and Florida. Sunday rains caused minor river flooding in northern New England. Intense storms pounded eastern Florida for the second week in a row, causing widespread flooding. Tuesday rainfall reached 14 inches in Hollywood and 11 inches in North Miami Beach. Meanwhile, cool air swept across the Plains and into the Southeast, resulting in nearly 30 daily record lows. Minimum temperatures dipped to 28° F in Crossville, TN, 34° F in Birmingham, AL, and 35° F in Valparaiso, FL. A rapid warm-up ensued in the Plains. On Tuesday in Alliance, NE, the temperature range was 59° (low 22° F, high 81° F). Warmth and dryness in the central Plains further depleted soil moisture reserves. In the West, more than 60 daily record highs were established from midweek onward. The temperature reached 100° F in Phoenix, AZ, on each of the first 11 days of October. Redding, CA, ended the week

with four consecutive daily record highs, including a 105° F reading on Friday. The rainy season has yet to begin in the Pacific Northwest, where Seattle, WA, has gone 6 weeks (since August 31) without measurable rain. Toward week's end, a series of weak cold fronts spread light precipitation and cool air across the Great Lakes and Northeast. By Saturday, warmth cloaked the West and pushed into the South, while the leading edge of a cold airmass pressed into the North Central States.

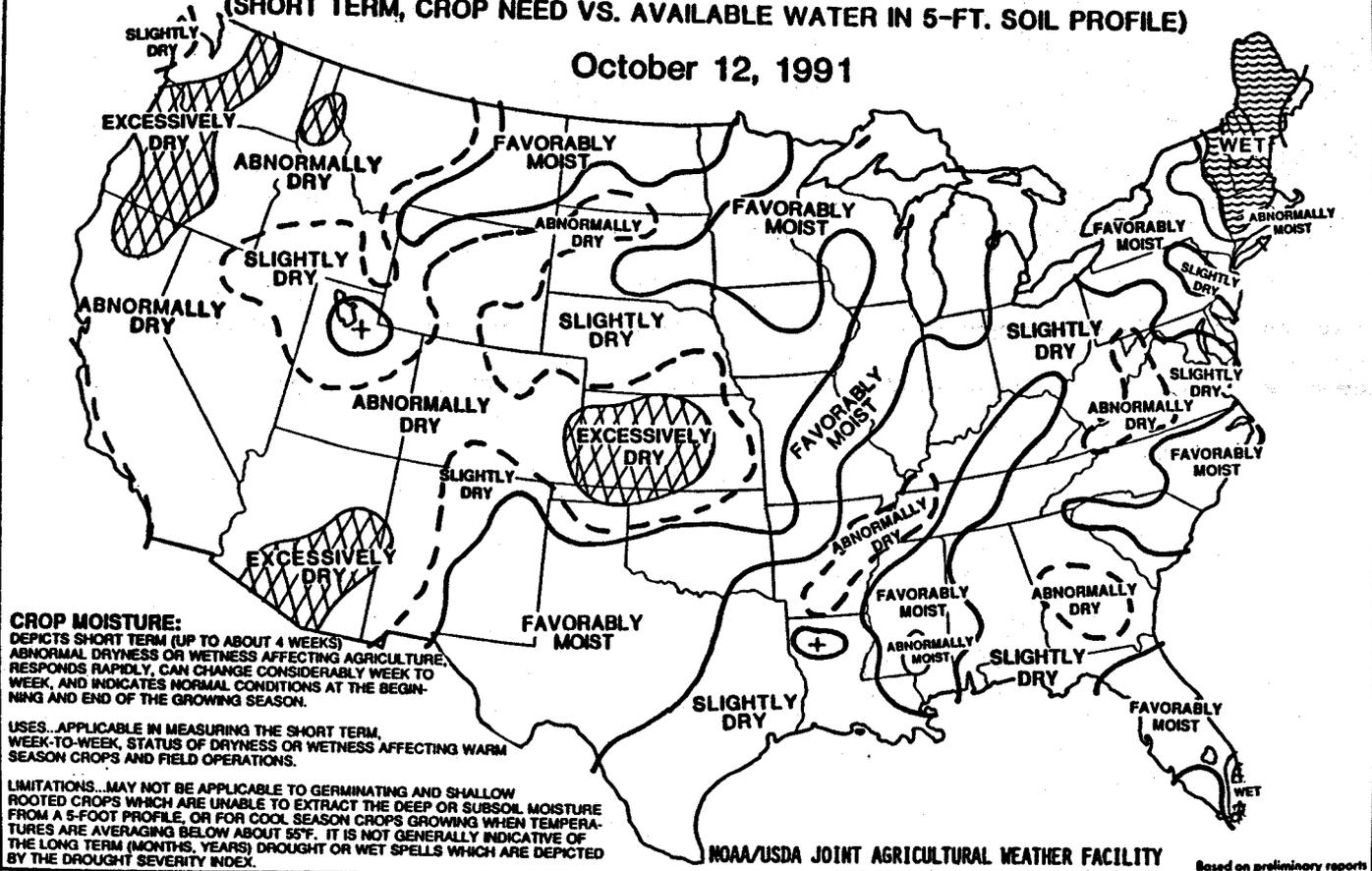
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CROP MOISTURE

(SHORT TERM, CROP NEED VS. AVAILABLE WATER IN 5-FT. SOIL PROFILE)

October 12, 1991



CROP MOISTURE:
 DEPICTS SHORT TERM (UP TO ABOUT 4 WEEKS) ABNORMAL DRYNESS OR WETNESS AFFECTING AGRICULTURE. RESPONDS RAPIDLY, CAN CHANGE CONSIDERABLY WEEK TO WEEK, AND INDICATES NORMAL CONDITIONS AT THE BEGINNING AND END OF THE GROWING SEASON.

USES... APPLICABLE IN MEASURING THE SHORT TERM, WEEK-TO-WEEK, STATUS OF DRYNESS OR WETNESS AFFECTING WARM SEASON CROPS AND FIELD OPERATIONS.

LIMITATIONS... MAY NOT BE APPLICABLE TO GERMINATING AND SHALLOW ROOTED CROPS WHICH ARE UNABLE TO EXTRACT THE DEEP OR SUBSOIL MOISTURE FROM A 5-FOOT PROFILE, OR FOR COOL SEASON CROPS GROWING WHEN TEMPERATURES ARE AVERAGING BELOW ABOUT 55°F. IT IS NOT GENERALLY INDICATIVE OF THE LONG TERM (MONTHS, YEARS) DROUGHT OR WET SPELLS WHICH ARE DEPICTED BY THE DROUGHT SEVERITY INDEX.

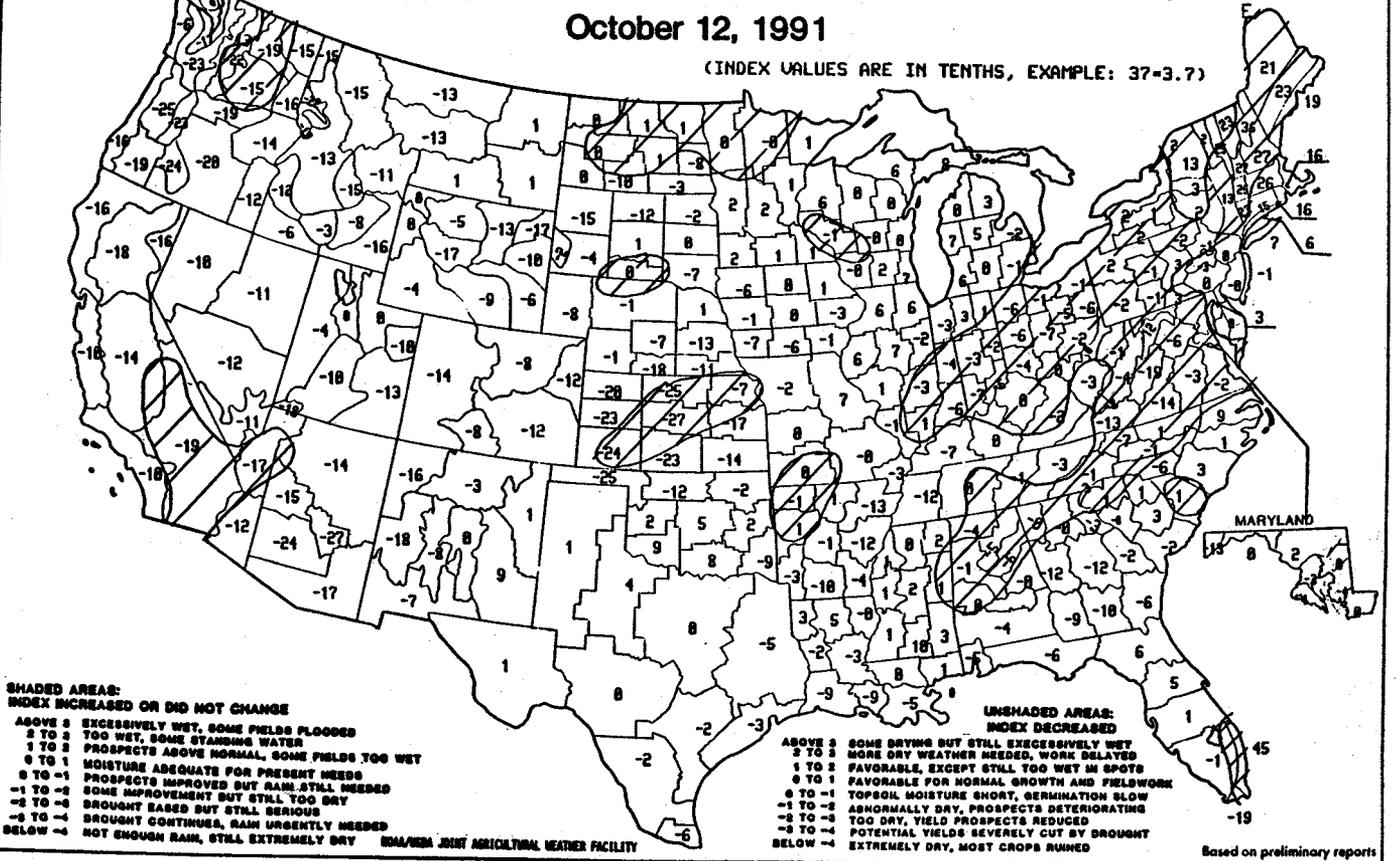
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY Based on preliminary reports

CROP MOISTURE INDEX

(SHORT TERM, CROP NEED VS. AVAILABLE WATER IN 5-FT. SOIL PROFILE)

October 12, 1991

(INDEX VALUES ARE IN TENTHS, EXAMPLE: 37+3.7)



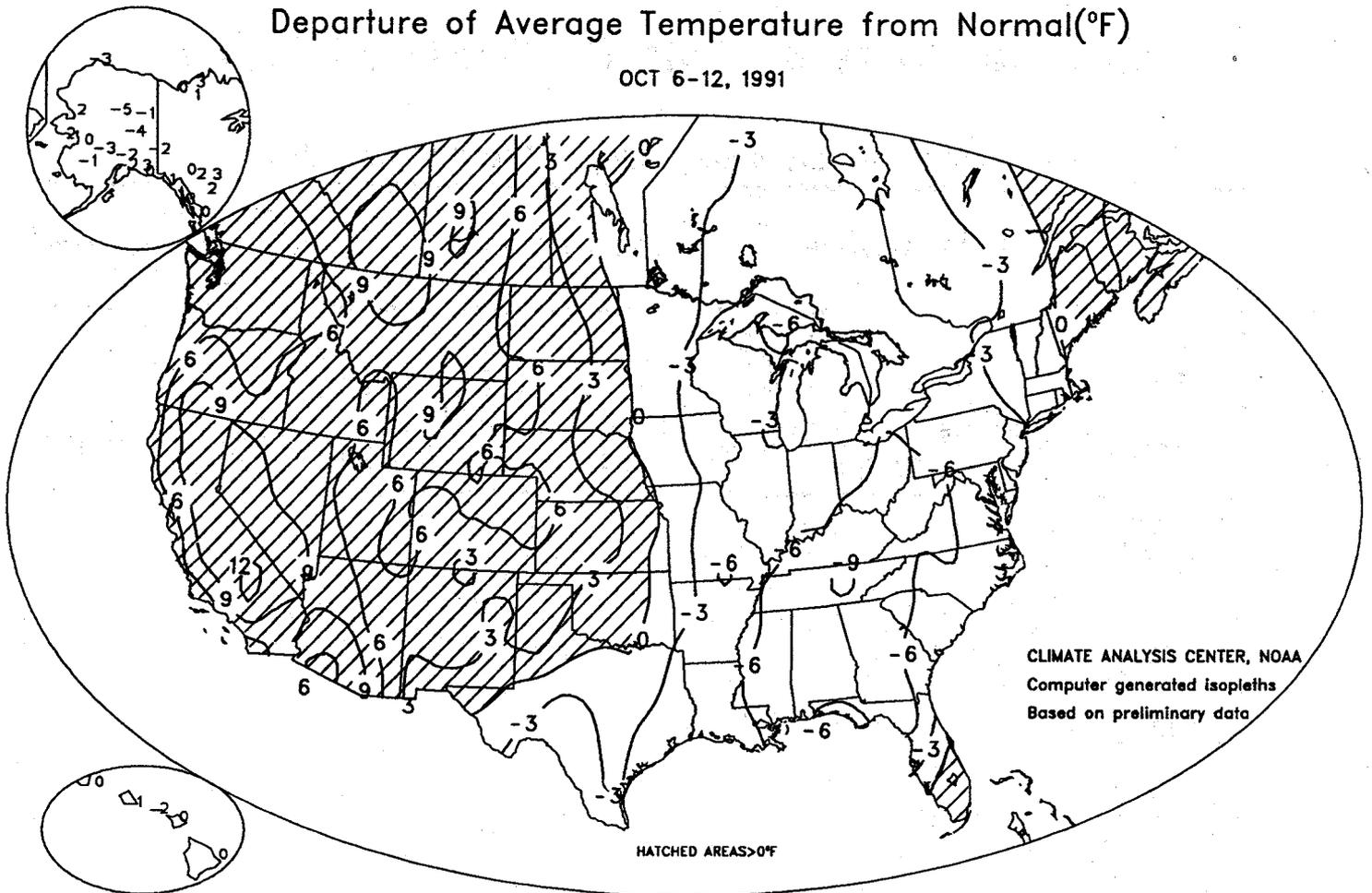
SHADED AREAS:
 INDEX INCREASED OR DID NOT CHANGE
 ABOVE 3 EXCESSIVELY WET, SOME FIELDS FLOODED
 2 TO 3 TOO WET, SOME STANDING WATER
 1 TO 2 PROSPECTS ABOVE NORMAL, SOME FIELDS TOO WET
 0 TO 1 MOISTURE ADEQUATE FOR PRESENT NEEDS
 0 TO -1 PROSPECTS IMPROVED BUT RAIN STILL NEEDED
 -1 TO -2 SOME IMPROVEMENT BUT STILL TOO DRY
 -2 TO -3 DROUGHT EASED BUT STILL SERIOUS
 -3 TO -4 DROUGHT CONTINUING, RAIN URGENTLY NEEDED
 BELOW -4 NOT ENOUGH RAIN, STILL EXTREMELY DRY

UNSHADED AREAS:
 INDEX DECREASED
 ABOVE 3 SOME DRYING BUT STILL EXCESSIVELY WET
 2 TO 3 DRY WEATHER NEEDED, WORK DELAYED
 1 TO 2 FAVORABLE, EXCEPT STILL TOO WET IN SPOTS
 0 TO 1 FAVORABLE FOR NORMAL GROWTH AND FIELDWORK
 0 TO -1 TOPSOIL MOISTURE SHORT, GERMINATION SLOW
 -1 TO -2 ABNORMALLY DRY, PROSPECTS DETERIORATING
 -2 TO -3 TOO DRY, YIELD PROSPECTS REDUCED
 -3 TO -4 DROUGHT CONTINUING, RAIN URGENTLY NEEDED
 BELOW -4 EXTREMELY DRY, MOST CROPS RUINED

NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY Based on preliminary reports

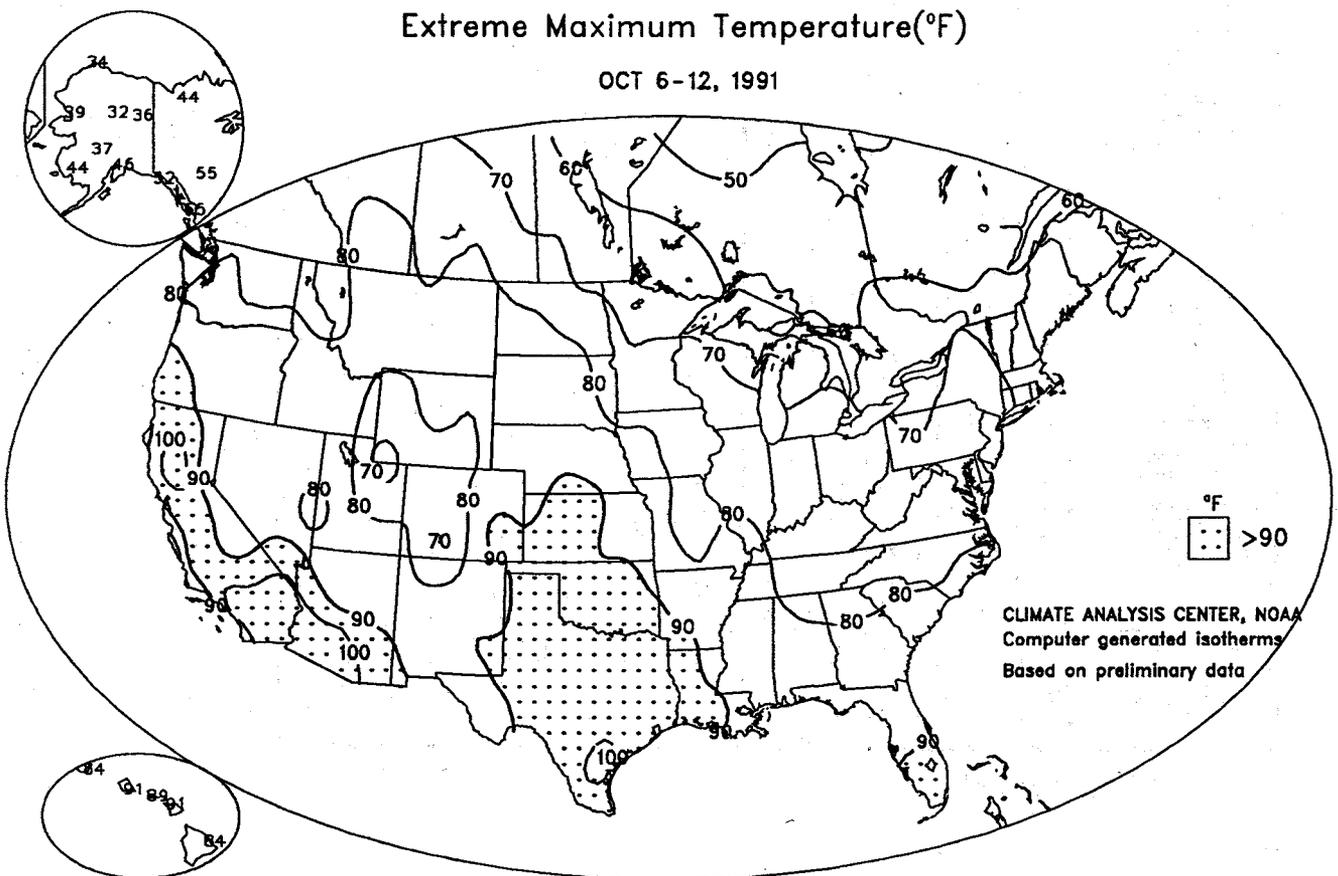
Departure of Average Temperature from Normal(°F)

OCT 6-12, 1991



Extreme Maximum Temperature(°F)

OCT 6-12, 1991



National Weather Data for Selected Cities

Weather Data for the Week Ending October 12, 1991

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT	NUMBER OF DAYS								
	AVERAGE	MAXIMUM	MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Sept 1	PCT. NORMAL SINCE Sept 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE	MAXIMUM	MINIMUM	90 AND ABOVE	32 AND BELOW	PRECIP.		
																				.01 INCH OR MORE	.50 INCH OR MORE	
AL BIRMINGHAM	74	42	81	34	58	-6	.0	-6	.0	3.0	56	45.3	102	91	28	0	0	0	0	0	0	
MOBILE	78	51	89	43	64	-7	.0	-7	.0	2.6	33	72.7	135	89	32	0	0	0	0	0	0	
MONTGOMERY	77	44	85	35	61	-7	.0	-6	.0	4.0	70	55.7	139	94	30	0	0	0	0	0	0	
AK ANCHORAGE	43	28	47	21	36	.0	.0	-4	.0	3.5	110	12.1	103	83	44	0	0	7	0	0	0	
BARROW	21	8	34	-6	14	-4	.0	-1	.0	.4	50	1.3	35	92	80	0	0	7	0	0	0	
FAIRBANKS	35	18	38	4	26	-4	.0	-2	.0	1.2	82	7.2	84	90	54	0	0	7	0	0	0	
JUNEAU	51	44	56	41	48	4	2.4	.6	.9	20.4	216	61.9	161	98	79	0	0	0	0	6	2	
KODIAK	49	32	55	27	41	-2	.1	-1.5	.1	10.7	118	65.6	145	88	53	0	0	5	2	4	2	
NOME	38	28	44	17	33	2	.5	.2	.3	4.3	148	12.9	105	93	69	0	0	5	0	4	0	
AZ PHOENIX	101	75	105	74	88	12	.0	-1	.0	.8	93	4.3	83	29	12	7	0	0	0	0	0	0
PRESCOTT	85	48	88	45	66	9	.0	-3	.0	1.4	73	11.1	74	52	13	0	0	0	0	0	0	0
TUCSON	98	65	100	62	82	9	.0	-2	.0	1.5	90	7.8	86	30	10	7	0	0	0	0	0	0
YUMA	105	77	109	73	91	12	.0	-1	.0	.4	109	2.2	124	47	14	7	0	0	0	0	0	0
AR FORT SMITH	82	46	90	39	64	-2	.0	-7	.0	4.9	110	29.1	93	95	27	1	0	0	0	0	0	0
LITTLE ROCK	76	52	85	44	64	-2	.0	-6	.0	2.2	41	42.6	110	64	35	0	0	0	0	0	0	0
CA BAKERSFIELD	94	65	101	62	80	9	.0	-1	.0	.0	5	4.6	112	52	20	6	0	0	0	0	0	0
EUREKA	67	52	82	49	59	4	.0	-5	.0	.0	2	17.8	73	74	66	0	0	0	0	0	0	0
FRESNO	94	60	99	57	77	9	.0	-1	.0	.0	0	8.5	117	74	23	6	0	0	0	0	0	0
LOS ANGELES	78	62	91	59	70	3	.0	.0	.0	.1	69	8.1	95	93	57	1	0	0	0	0	0	0
REDDING	98	55	105	52	76	7	.0	-3	.0	.0	0	17.3	65	58	12	7	0	0	0	0	0	0
SACRAMENTO	94	56	100	52	75	9	.0	-1	.0	.0	9	12.7	75	114	16	6	0	0	0	0	0	0
SAN DIEGO	80	64	92	63	72	4	.0	.0	.0	.3	112	11.1	171	93	51	1	0	0	0	0	0	0
SAN FRANCISCO	78	55	88	51	67	5	.0	-2	.0	.0	9	11.3	88	89	42	0	0	0	0	0	0	0
CO DENVER	80	41	87	31	61	6	.0	-2	.0	1.0	60	16.9	129	67	12	0	0	1	0	0	0	0
GRAND JUNCTION	79	45	81	40	62	4	.0	-2	.0	2.3	219	6.4	104	37	12	0	0	0	0	0	0	0
PUEBLO	84	38	92	26	61	4	.0	-2	.0	1.3	119	10.6	111	53	11	1	2	0	0	0	0	0
CT BRIDGEPORT	65	48	71	41	56	-2	.5	-3	.3	4.2	93	32.2	101	85	52	0	0	0	2	2	0	0
HARTFORD	63	42	71	36	53	-2	1.3	-6	.9	7.4	140	38.8	115	94	52	0	0	0	0	2	1	0
DC WASHINGTON	68	48	75	42	58	-4	.2	-2	.4	4.0	91	22.2	71	85	42	0	0	0	0	3	0	0
FL APALACHICOLA	79	56	85	46	68	-5	.8	-8	.2	2.7	26	88.5	188	87	40	0	0	0	0	1	0	0
DAYTONA BEACH	82	65	87	59	74	-1	.8	-4	.4	8.2	94	64.8	158	89	58	0	0	0	0	3	0	0
JACKSONVILLE	79	59	85	50	69	-3	.8	-1	.0	12.4	151	78.3	172	93	49	0	0	0	0	0	0	0
KEY WEST	86	76	89	73	81	0	1.0	-2	.4	6.8	81	34.7	110	90	68	0	0	0	0	5	0	0
MIAMI	86	73	91	72	80	1	13.5	11.7	8.6	26.7	239	64.0	131	98	67	2	0	0	0	6	3	0
ORLANDO	84	66	87	62	75	-2	.5	-4	.5	7.4	94	58.5	133	92	54	0	0	0	0	1	0	0
TALLAHASSEE	80	51	87	37	66	-5	.0	-8	.0	2.1	26	70.0	128	96	33	0	0	0	0	0	0	0
TAMPA	84	64	88	61	74	-2	.3	-4	.3	3.9	53	41.0	99	92	56	0	0	0	0	1	0	0
WEST PALM BEACH	86	73	91	70	79	1	2.1	.1	1.5	11.2	88	70.3	142	96	63	1	0	0	0	6	1	0
GA ATLANTA	72	48	78	39	60	-5	.0	-6	.0	2.1	51	49.7	127	77	30	0	0	0	0	0	0	0
AUGUSTA	78	45	84	36	61	-5	.0	-5	.0	1.5	34	52.1	143	99	32	0	0	0	0	0	0	0
MACON	77	45	85	34	61	-7	.0	-5	.0	.9	21	47.8	129	96	30	0	0	0	0	0	0	0
SAVANNAH	78	55	84	42	66	-3	.0	-6	.0	.9	14	64.4	146	92	37	0	0	0	0	1	0	0
HI HILO	84	68	85	66	76	0	.9	-1.1	.7	10.6	107	127.0	136	93	65	0	0	0	0	2	1	0
HONOLULU	89	72	91	70	81	1	.0	-3	.0	.6	48	11.7	76	81	47	2	0	0	0	0	0	0
KAHULUI	87	70	91	65	78	0	.0	-1	.0	1.0	204	10.3	81	89	54	1	0	0	0	0	0	0
LIHUE	84	72	85	70	78	0	.0	-9	.0	1.0	28	25.2	84	89	63	0	0	0	0	0	0	0
ID BOISE	79	45	82	41	62	8	.0	-1	.0	.2	26	6.5	77	49	18	0	0	0	0	0	0	0
LEWISTON	74	43	80	39	59	4	.0	-2	.0	.2	21	8.8	90	55	20	0	0	0	0	0	0	0
FOCATELLO	79	34	84	27	57	6	.0	-2	.0	.7	69	11.0	134	73	15	0	2	0	0	0	0	0
IL CHICAGO	64	42	75	33	53	-3	.1	-4	.1	5.7	114	26.1	91	84	40	0	0	2	0	0	0	0
MOLINE	67	41	78	31	54	-3	.0	-7	.0	5.2	106	24.4	78	87	37	0	1	0	0	0	0	0
PEORIA	66	42	79	31	54	-3	.0	-6	.0	8.2	173	27.8	94	87	39	0	1	0	0	0	0	0
QUINCY	67	44	77	31	56	-3	.0	-8	.0	8.1	144	30.6	96	77	34	0	1	0	0	0	0	0
ROCKFORD	64	39	77	31	52	-4	.0	-7	.0	7.2	147	24.2	79	88	38	0	1	0	0	0	0	0
SPRINGFIELD	67	43	76	32	55	-4	.0	-6	.0	8.2	191	30.7	108	82	37	0	1	0	0	0	0	0
IN EVANSVILLE	69	39	77	33	54	-6	.3	-3	.3	3.6	100	23.2	70	89	31	0	0	0	0	0	0	0
FORT WAYNE	62	42	72	36	52	-4	.3	-3	.2	5.1	146	33.5	121	92	45	0	0	0	3	0	0	0
INDIANAPOLIS	65	41	76	31	53	-5	.2	-4	.2	2.1	58	27.6	88	85	41	0	1	2	0	0	0	0
SOUTH BEND	63	42	73	35	52	-4	.3	-4	.2	7.0	155	27.5	91	87	44	0	0	0	3	0	0	0
IA DES MOINES	69	42	79	29	56	-1	.0	-5	.0	2.3	58	30.4	113	79	32	0	1	0	0	0	0	0
SIOUX CITY	73	38	82	29	55	-1	.0	-4	.0	3.0	90	21.4	94	85	28	0	2	0	0	0	0	0
WATERLOO	65	37	76	25	51	-3	.0	-6	.0	4.7	106	34.7	121	88	37	0	2	0	0	0	0	0
KS CONCORDIA	81	48	91	27	64	4	.0	-5	.0	.2	5	15.3	63	64	23	1	1	0	0	0	0	0
DODGE CITY	84	49	90	32	66	5	.0	-3	.0	.2	8	7.3	40	59	18	1	1	0	0	0	0	0
GOODLAND	82	43	88	30	63	7	.0	-2	.0	.8	42	19.9	136	56	15	0	1	0	0	0	0	0
TOPEKA	79	44	87	31	62	1	.0	-7	.0	2.5	53	21.7	75	88	26	0	1	0	0	0	0	0
WICHITA	81	48	87	36	65	2	.0	-6	.0	2.1	46	21.3	86	71	23	0	0	0	0	0	0	0
KY BOWLING GREEN	69	40	77	32	54	-7	.3	-3	.3	3.8	89	35.1	90	96	42	0	1	1	0	0	0	0
LEXINGTON	64	41	70	35	52	-7	.0	-5	.0	3.7	89	32.2	87	90	40	0	0	0	0	0	0	0
LOUISVILLE	68	44	76	37	56	-5	.3	-2	.3	3.6	82	29.6	85	86	34	0	0	0	1	0	0	0
LA ALEXANDRIA	80	48	91	40	64	-6	.0	-6	.0	2.0	50	61.1	147	93	29	1	0	0	0	0	0	0
BATON ROUGE	79	51	89	42	65	-5	.0	-6	.0	6.3	115	63.4	140	90	32	0	0	0	0	0	0	0
LAKE CHARLES	80	54	88	45	67	-4	.0	-9	.0	3.7	50	61.6	145	90	32	0	0	0	0	0	0	0
NEW ORLEANS	79	53	91	45	66	-6	.0	-6	.0	3.4	49	95.7	196	90	35							

Weather Data for the Week Ending October 12, 1991

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 Sept 1	PCT. NORMAL SINCE Sept 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE	MAXIMUM	MINIMUM	TEMP. °F		PRECIP	
																	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
SRREVEPORT	82	49	92	44	66	-4	.0	-.6	1.0	3.5	82	67.0	195	95	30	2	0	0	0	
ME CARIBOU	56	40	64	30	48	2	2.1	1.4	1.0	5.9	125	29.6	105	93	59	2	2	5	2	
PORTLAND	60	41	63	34	51	1	1.2	.4	.8	7.2	156	47.7	151	97	56	0	0	2	1	
MD BALTIMORE	68	41	75	35	55	5	.8	.1	.5	3.9	83	22.1	66	86	39	0	0	2	1	
SALISBURY	69	42	75	36	55	4	1.1	-.8	.0	5.1	95	37.5	103	98	44	0	0	3	1	
MA BOSTON	65	49	71	44	57	0	1.1	-.4	.9	7.4	161	32.4	99	91	51	0	0	2	0	
CHATHAM	62	51	65	44	56	1	.5	-.3	.4	4.0	79	26.3	75	90	66	0	0	3	0	
MI ALPENA	56	37	66	33	46	4	1.1	-.4	.0	4.4	110	26.4	112	92	49	0	0	2	0	
DETROIT	61	43	74	36	52	3	1.3	-.2	.1	2.0	67	22.2	90	85	42	0	0	5	0	
FLINT	61	40	73	34	51	3	1.1	-.4	.1	2.4	76	24.7	106	83	43	0	0	3	0	
GRAND RAPIDS	60	41	71	36	51	3	.4	-.2	.2	5.3	124	32.7	123	86	46	0	0	2	0	
HOUGHTON LAKE	55	39	64	35	47	3	1.1	-.4	.1	7.5	202	28.4	126	91	49	0	0	2	0	
LANSING	60	39	72	33	49	3	1.2	-.3	.1	2.7	73	23.5	99	90	44	0	0	2	0	
MARQUETTE	51	30	65	27	40	7	1.3	-.4	.3	5.2	98	27.0	90	92	61	0	7	3	0	
MUSKOGON	59	42	67	36	51	3	1.2	-.4	.2	6.6	164	31.2	129	86	47	0	0	2	0	
SAULT ST. MARIE	52	36	63	33	44	4	1.4	-.2	.4	7.6	151	25.0	97	92	56	0	0	3	0	
MN ALEXANDRIA	61	37	69	32	49	1	1.0	-.5	.0	4.4	143	26.2	121	78	32	0	1	0	0	
DULUTH	56	34	69	28	45	3	.0	-.5	.0	9.8	235	35.5	141	86	39	0	2	0	0	
INT'L FALLS	55	31	66	28	43	3	.0	-.5	.0	5.2	132	23.9	114	91	41	0	5	0	0	
MINNEAPOLIS	62	37	75	27	50	3	.0	-.4	.0	5.7	174	28.1	122	84	36	0	2	0	0	
ROCHESTER	60	36	77	26	48	4	.0	-.6	.0	2.6	59	27.8	113	85	37	0	3	0	0	
MS GREENWOOD	78	44	88	37	61	6	.0	-.6	.0	3.7	85	53.2	129	93	26	0	0	0	0	
JACKSON	78	44	89	36	61	7	.0	-.5	.0	3.7	83	52.7	128	94	25	0	0	0	0	
MERIDIAN	77	45	88	37	61	5	.0	-.6	.0	6.1	131	60.6	142	91	26	0	0	0	0	
MO CAPE GIRARDEAU	73	44	84	33	58	1	.0	-.5	.0	3.3	69	31.4	88	83	25	0	0	0	0	
COLUMBIA	70	44	78	31	57	3	.0	-.8	.0	4.8	91	26.7	87	79	34	0	1	0	0	
KANSAS CITY	75	47	83	31	61	1	.0	-.8	.0	4.3	75	23.1	74	74	29	0	1	0	0	
SAINT LOUIS	71	50	80	39	60	1	.0	-.5	.0	5.0	140	24.5	89	70	30	0	0	0	0	
SPRINGFIELD	73	45	82	34	59	2	.0	-.8	.0	4.5	80	27.4	85	84	34	0	0	0	0	
MT BILLINGS	77	46	84	35	62	9	.0	-.3	.0	3.4	194	18.4	146	58	19	0	0	0	0	
GLASGOW	76	39	84	28	57	8	.0	-.1	.0	7.7	61	10.4	105	64	18	0	1	0	0	
GREAT FALLS	77	46	85	34	62	11	.0	-.2	.0	1.2	90	12.6	97	51	16	0	0	0	0	
HAVER	77	40	84	26	58	9	.0	-.2	.0	1.3	23	8.7	84	61	18	0	1	0	0	
HELENA	77	35	82	31	56	8	.0	-.2	.0	1.3	115	9.6	97	73	16	0	2	0	0	
KALISPELL	71	27	76	24	49	4	.0	-.2	.0	7.7	46	11.5	94	89	21	0	7	0	0	
MILES CITY	75	41	81	31	58	6	.0	-.2	.0	3.8	258	19.0	153	76	22	0	1	0	0	
MISSOULA	74	32	78	28	53	6	.0	-.2	.0	1.3	23	8.8	83	69	16	0	4	0	0	
NE GRAND ISLAND	79	40	88	23	59	3	.0	-.0	.0	1.0	33	24.7	117	76	21	0	1	0	0	
LINCOLN	78	41	88	26	59	2	.0	-.4	.0	1.2	32	19.3	79	78	21	0	1	0	0	
NORFOLK	76	38	83	27	57	2	.0	-.0	.0	2.4	89	25.0	116	84	25	0	2	0	0	
NORTH PLATTE	81	35	88	21	58	5	.0	-.2	.0	2.2	104	17.2	97	91	18	0	1	0	0	
OMAHA	73	45	82	29	59	5	.0	-.5	.0	2.7	60	31.4	116	65	36	0	1	0	0	
SCOTTSDUFF	80	38	88	26	59	9	.0	-.2	.0	1.4	97	12.9	98	80	16	0	2	0	0	
VALENTINE	78	34	87	17	56	10	.0	-.2	.0	1.0	58	19.6	123	80	19	0	2	0	0	
NV RLY	78	33	82	26	55	7	.0	-.1	.0	1.3	140	8.3	114	53	16	0	5	0	0	
LAS VEGAS	94	67	97	65	81	10	.0	-.1	.0	1.1	15	3.4	108	25	11	7	0	0	0	
RENO	84	44	88	40	64	9	.0	-.1	.0	.6	182	3.9	75	57	13	0	0	0	0	
WINNEMOCCA	85	36	88	34	61	9	.0	-.1	.0	.8	150	5.7	100	44	11	0	0	0	0	
NH CONCORD	61	38	70	27	49	1	2.1	1.4	1.4	8.2	192	30.4	110	99	55	0	4	4	1	
NJ ATLANTIC CITY	67	39	74	34	53	5	.0	-.6	.0	2.9	72	28.8	89	98	51	0	0	1	0	
NM ALBUQUERQUE	83	50	85	47	66	6	.0	-.2	.0	1.4	123	7.9	122	54	13	0	0	0	0	
CLOVIS	81	49	87	39	65	4	.0	-.5	.0	3.5	131	19.8	132	72	21	0	0	0	0	
ROSWELL	85	47	91	41	66	3	.0	-.3	.0	4.1	182	17.5	188	73	21	2	0	0	0	
NY ALBANY	62	41	70	33	52	1	1.0	-.3	.6	5.8	132	26.7	96	92	50	0	0	3	1	
BINGHAMTON	57	38	69	32	47	4	1.5	-.2	.2	3.2	71	25.1	87	92	47	0	1	3	0	
BUFFALO	57	42	69	37	49	5	1.6	-.9	.8	5.9	133	32.0	112	95	52	0	0	4	2	
NEW YORK	66	49	72	44	57	3	.0	-.6	.1	3.9	84	32.1	97	81	49	0	0	2	0	
ROCHESTER	58	41	71	36	49	5	.0	-.1	.5	3.9	107	23.3	95	92	53	0	0	2	0	
SYRACUSE	60	40	73	34	50	4	.0	-.3	.3	5.4	122	29.8	98	90	49	0	0	3	0	
NC ASHVILLE	66	36	73	30	51	7	.0	-.7	.0	1.2	25	35.3	99	93	31	0	2	0	0	
CHARLOTTE	72	46	77	40	59	4	.0	-.6	.0	2.1	44	39.3	112	80	30	0	0	0	0	
GREENSBORO	69	42	75	34	56	5	.0	-.8	.0	5.5	111	37.2	108	90	32	0	0	0	0	
HATTERAS	74	61	79	56	67	0	1.1	-1.0	.1	6.4	84	56.0	129	87	53	0	0	2	0	
NEW BERN	74	50	80	41	62	4	.0	-.3	.5	6.0	82	42.9	96	95	48	0	0	1	1	
RALEIGH	72	44	77	37	58	4	.0	-.6	.0	4.1	94	31.6	93	95	36	0	0	0	0	
WILMINGTON	75	51	81	41	63	4	.0	-.5	.3	4.0	56	52.0	115	93	41	0	0	1	0	
ND BISMARCK	71	34	82	19	53	3	.0	-.2	.0	2.5	144	13.5	99	76	24	0	2	0	0	
FARGO	66	35	75	30	50	0	.0	-.3	.0	1.3	53	19.3	112	71	27	0	2	0	0	
GRAND FORKS	64	36	72	30	50	1	.0	-.3	.0	3.5	136	18.8	116	77	30	0	2	0	0	
WILLISTON	73	34	81	20	53	4	.0	-.2	.0	2.8	164	16.6	137	84	22	0	3	0	0	
OR AKRON-CANTON	57	39	72	33	48	7	.0	-.8	.2	3.7	95	18.4	63	92	54	0	0	4	1	
CINCINNATI	63	41	74	34	52	6	.0	-.4	.4	3.2	82	32.3	100	90	38	0	0	1	0	
CLEVELAND	58	41	74	36	50	7	.0	-.8	.3	4.4	5.2	26.6	94	90	50	0	0	5	0	
COLUMBUS	61	40	74	33	50	6	1.0	.6	.7	5.3	151	27.1	89	93	44	0	0	3	1	

Based on 1951-80 normals

Weather Data for the Week Ending October 12, 1991

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 Sept 1	PCT. NORMAL SINCE Sept 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
DAYTON	62	41	75	33	52	-4	.7	.3	.4	4.0	129	30.7	109	89	39	0	0	2	0		
TOLEDO	60	43	72	36	52	-3	.4	.0	.4	1.3	40	18.6	74	94	48	0	0	4	0		
YOUNGSTOWN	57	38	72	34	48	-6	.7	.1	.5	4.0	96	21.1	71	89	50	0	0	0	1		
OK OKLAHOMA CITY	81	52	92	43	67	1	.0	.0	.0	11.9	256	31.9	120	78	31	1	1	0	0		
TULSA	81	52	93	40	66	1	.0	.0	.0	6.2	106	21.9	68	79	32	1	1	0	0		
OR ASTORIA	69	44	83	39	56	2	.0	.0	.0	.1	2	37.8	87	97	52	0	0	0	0		
BURNS	80	33	83	31	56	6	.0	.0	.0	.3	3	4.4	64	51	13	0	0	0	0		
MEDFORD	89	44	94	42	66	10	.0	.0	.0	0	0	10.6	87	81	18	3	3	0	0		
PENDLETON	76	44	80	41	60	4	.0	.0	.0	.0	0	9.2	111	81	20	4	4	0	0		
PORTLAND	77	47	86	42	62	6	.0	.0	.0	.0	1	21.4	91	97	38	0	0	0	0		
SALEM	78	43	87	37	61	5	.0	.0	.0	.0	2	22.0	88	93	35	0	0	0	0		
PA ALLENTOWN	64	40	72	35	52	-1	1.0	.3	.5	4.4	84	26.9	77	93	46	0	0	2	1		
ERIE	59	45	73	40	52	-3	1.4	.5	.5	5.2	98	24.3	79	82	46	0	0	2	1		
HARRISBURG	62	44	73	38	53	-5	.8	.2	.8	3.5	75	25.2	81	88	46	0	0	1	1		
PHILADELPHIA	67	45	75	41	56	-3	.2	.4	.2	3.8	84	29.4	90	88	44	0	0	2	0		
PITTSBURGH	58	41	72	34	50	-6	.0	.5	.5	3.9	105	26.3	88	89	47	0	0	4	1		
SCRANTON	60	40	72	36	50	-4	1.0	.0	.6	3.6	83	22.3	81	89	49	0	0	0	0		
RI PROVIDENCE	65	44	71	38	55	-1	.7	.1	.1	5.8	118	36.0	105	95	51	0	0	2	1		
SC CHARLESTON	77	54	85	43	66	-3	.0	.7	.7	2.9	46	46.3	104	93	40	0	0	0	0		
COLUMBIA	76	46	82	37	61	-5	.0	.6	.6	2.7	51	58.1	139	99	36	0	0	0	0		
FLORENCE	76	49	80	40	62	-4	.0	.6	.8	2.8	55	39.4	105	90	35	0	0	0	0		
GREENVILLE	72	43	77	38	57	-6	.0	.8	.8	1.5	25	42.8	102	85	31	0	0	0	0		
SD ABERDEEN	73	34	85	24	54	3	.0	.3	.3	.6	31	21.6	135	76	23	0	2	0	0		
HURON	73	34	84	25	54	1	.0	.3	.3	.0	0	0	132	84	22	0	0	0	0		
RAPID CITY	79	41	87	22	60	7	.0	.2	.0	2.1	109	21.7	132	84	22	0	0	0	0		
SIOUX FALLS	71	36	78	26	53	0	.0	.4	.4	1.0	76	16.0	109	60	18	0	1	0	0		
TN CHATTANOOGA	70	39	75	34	55	-6	.0	.7	.7	4.0	114	23.9	111	85	27	0	2	0	0		
KNOXVILLE	68	42	73	34	55	-8	.0	.7	.7	2.4	44	42.9	103	96	25	0	0	1	0		
MEMPHIS	76	47	83	38	61	-4	.0	.6	.6	3.4	86	42.0	113	94	34	0	0	0	0		
NASHVILLE	70	41	77	34	56	-8	.0	.5	.5	2.4	52	45.0	110	73	24	0	0	0	0		
TX ABILENE	83	54	93	41	68	-1	.1	.3	.1	5.9	124	32.7	85	93	30	0	0	1	0		
AMARILLO	84	49	91	39	66	-4	.0	.6	.6	6.0	148	24.3	123	74	27	1	0	0	0		
AUSTIN	86	57	98	51	72	-1	.0	.3	.3	2.1	89	12.4	72	70	21	1	0	0	0		
BEAUMONT	82	55	94	50	69	-1	.0	.0	.0	3.4	69	35.3	141	80	28	2	0	0	0		
BROWNSVILLE	84	64	91	59	74	-1	.0	.9	.9	7.1	104	62.3	142	94	32	2	0	0	0		
CORPUS CHRISTI	85	62	97	59	73	-3	.0	.9	.9	8.9	129	29.3	141	94	51	1	0	0	0		
DEL RIO	83	58	94	53	71	-3	.0	.8	.8	8.6	107	36.3	134	87	43	2	0	0	0		
EL PASO	87	50	90	45	69	-2	.0	.0	.0	7.1	190	17.4	119	68	30	2	0	0	0		
FORT WORTH	86	53	97	46	69	-1	.0	.2	.2	1.8	105	8.2	125	68	19	1	0	0	0		
GALVESTON	78	64	86	61	71	-1	.0	.7	.7	4.6	99	34.4	135	85	27	3	0	0	0		
HOUSTON	83	53	96	48	68	-4	.0	.7	.7	5.5	75	50.5	156	79	42	0	0	0	0		
LUBBOCK	86	50	92	41	68	-4	.0	.9	.9	2.9	42	44.2	120	93	34	2	0	0	0		
MIDLAND	84	49	91	43	67	-4	.0	.5	.5	6.8	240	20.2	130	79	24	1	0	0	0		
SAN ANGELO	83	49	90	42	66	-4	.0	.4	.4	4.0	146	20.1	172	80	24	1	0	0	0		
SAN ANTONIO	86	54	99	47	70	-3	.0	.5	.5	4.8	120	16.8	110	89	31	1	0	0	0		
VICTORIA	86	57	99	54	72	-2	.0	.7	.7	1.4	29	27.5	117	82	27	2	0	0	0		
WACO	87	51	97	42	69	-2	.0	.9	.9	3.1	40	46.5	151	92	34	2	0	0	0		
WICHITA FALLS	86	52	96	41	69	-2	.0	.7	.7	3.8	86	31.9	129	83	26	3	0	0	0		
UT CEDAR CITY	81	44	84	40	63	-8	.0	.2	.2	8.3	182	24.3	108	83	28	3	0	0	0		
SALT LAKE CITY	77	45	80	41	61	-5	.0	.3	.3	1.1	95	9.0	110	42	12	0	0	0	0		
VT BURLINGTON	59	41	71	37	50	-1	2.5	1.9	1.9	2.6	200	13.2	111	66	19	0	0	0	0		
VA NORFOLK	73	50	79	45	61	-3	.0	.3	.3	8.4	197	27.9	105	95	54	0	0	4	1		
VA RICHMOND	71	44	77	38	57	-4	.0	.8	.8	3.4	59	35.4	96	95	42	0	0	1	0		
ROANOKE	68	40	77	30	54	-6	.0	.8	.8	3.4	69	28.8	83	93	42	0	0	2	0		
WA QUILLAYUTE	68	44	79	38	56	-4	.1	.2	.2	.2	4	30.7	98	87	29	0	1	1	0		
SEATTLE-TACOMA	72	48	83	44	60	-4	.0	.7	.7	.2	2	67.3	97	97	57	0	0	3	0		
SPOKANE	74	40	80	33	57	-7	.0	.2	.2	0	0	25.4	105	97	43	0	0	0	0		
YAKIMA	75	34	79	32	55	-2	.0	.7	.7	1	9.7	86	63	18	0	0	0	0	0		
WV BECKLEY	59	38	68	29	49	-5	.0	.6	.6	.1	16	5.4	103	95	32	0	0	1	0		
CHARLESTON	64	41	75	32	53	-6	.0	.4	.4	2.9	62	29.3	85	90	41	0	2	1	0		
HUNTINGTON	64	40	73	31	52	-7	.1	.4	.4	6.2	153	31.1	90	95	44	0	1	2	0		
PARKERSBURG	61	40	72	31	51	-8	.3	.3	.3	2.9	74	29.9	89	93	37	0	0	2	0		
WI GREEN BAY	59	37	68	31	48	-8	.0	.5	.5	4.9	128	35.1	113	94	47	0	0	3	0		
LACROSSE	62	39	79	30	50	-4	.0	.5	.5	3.2	78	19.5	83	89	43	0	1	1	0		
MADISON	62	36	74	32	49	-4	.0	.5	.5	1.8	40	27.3	104	94	43	0	2	1	0		
MILWAUKEE	62	43	74	36	53	-1	.0	.5	.5	5.0	126	29.2	112	88	38	0	0	0	0		
WAUSAU	57	35	70	29	46	-4	.0	.6	.6	7.0	186	29.7	117	83	39	0	0	2	0		
WY CASPER	79	39	82	28	59	-9	.0	.2	.2	4.4	89	29.9	110	90	41	0	1	1	0		
CHRYSTENNE	75	40	80	30	58	-8	.0	.2	.2	.5	50	10.5	110	53	12	0	2	0	0		
LANDER	77	42	81	30	60	-9	.0	.3	.3	2.0	149	17.4	145	58	13	0	1	0	0		
SHERIDAN	79	41	85	29	60	-10	.0	.3	.3	.5	40	11.2	102	52	15	0	1	0	0		
										1.7	104	12.4	97	62	16	0	1	0	0		

Based on 1951-80 normals

National Agricultural Summary

October 7 - 13, 1991

HIGHLIGHTS: Mostly dry weather in all regions except the Northeast left supplies of soil moisture short to adequate in all areas except the Great Lakes and New England, where supplies rated mostly adequate. Tightening water supplies were amplified by above-normal temperatures across the western half of the Nation and record highs in California.

SMALL GRAINS: Winter wheat seeding progressed well, reaching 73 percent (%) complete in the 19 major producing States, 4 percentage points ahead of last year and 1 point ahead of the 5-year average. Light rains fell in the Ohio Valley, providing favorable moisture for seeding. Seeding of winter barley and rye continued. Oats harvest was virtually complete in Colorado.

CORN: Mostly dry weather in the Central United States permitted corn harvest to progress well ahead of both last year and the historic average. Harvest was 66% complete in the 17 major States, compared with 31% last year and 44% average. Harvest was well along in the Corn Belt and complete in Georgia. Light problems with lodging and ear droppage were reported in Iowa.

SOYBEANS: Soybean harvest continued to advance rapidly in the northern producing States, reaching 58% complete in the 19 major producing States, 19 points ahead of last year and 11 points ahead of the average. Lower-than-normal temperatures in the eastern half of the Nation encouraged leaf droppage, evident on 89% of the acreage in the 19 major States, compared with 84% last year and 88% average.

COTTON: Cotton harvest advanced sharply in the Delta and Alabama while gaining momentum in the West. Harvest was 34% complete in the 14 major producing States, compared with 35% last year and 33% average. Bolls were opening on 78% of the acreage, compared with 85% last year and 80% average. High temperatures on the Texas Plains were ideal for cotton fields, and bolls were opening rapidly.

GRAIN SORGHUM: Paced by much earlier-than-normal progress in the Midwest, sorghum maturity and harvest continued to be ahead of both last year and the historic average. Ninety-three percent of the crop was mature in the 12 major States, compared with 90% last year. Harvest reached 64% complete, compared with 45% last year.

RICE: Rice harvest reached 82% complete in the five major producing States, 7 points ahead of last year but 2 points behind the average. Harvest neared completion in Louisiana, remained in full swing in Arkansas and Mississippi, and

advanced to 50% complete in California. Harvest of second crop rice was underway in southern Louisiana.

OTHER FIELD CROPS: Open weather across most of the Nation allowed alfalfa and other hay baling to progress unhindered. Dry bean harvest neared completion. Peanut digging was well along in the Southeast and in full swing in Oklahoma and Texas. Potatoes were in the later stages of harvest. Safflower harvest was winding down in California. Sugarbeet digging was in full swing in the northern Rocky Mountains and Great Lakes. Sunflower harvest progressed in Minnesota and North Dakota. Sweetpotato digging continued throughout the Southeast.

FRUIT AND NUTS: Lemons and grapefruit were being harvested in western Arizona, while apples and pistachios were harvested in the eastern areas. California's harvests of apples, late variety table and wine grapes, Asian pears, figs, olives, pomegranates, and persimmons continued. Almond, walnut, and pistachio picking was progressing. California's new crop navel oranges were maturing. Early orange harvest was increasing in Florida, and grapefruit movement was active. Cranberry harvest continued in Oregon, New England, and New Jersey. Anjou pear harvest was concluding, and apple harvest was 10 days from completion in Oregon's Hood River Valley. Apple harvest was in full swing from Washington to the Northeast. Pecan harvest was getting underway in the Gulf Coast States.

VEGETABLES: Melon picking continued in Arizona. Fall lettuce harvest was active in New Mexico, and picking of red chile continued. California continued to supply broccoli, cauliflower, celery, lettuce, melons, and miscellaneous warm and cool season vegetables. Harvests of fall vegetable crops increased in Florida. Sweet corn, onion, and cabbage harvests continued in Oregon's Willamette Valley. Late tomato harvest began in east Texas. Red chile pepper harvest continued in Texas' Trans-Pecos region, but most bell peppers were destroyed by a virus.

PASTURES AND LIVESTOCK: Continued dry weather further deteriorated range and pasture conditions, while movement of livestock to winter ranges continued. Kansas ranchers were moving stock to pastures where water was available or alternatively hauling water.

Crop Progress

For Week Ending October 13, 1991

Grain Sorghum % Mature

	1991	1990	Avg.
AR	96	95	98
CO	87	77	77
IL	99	80	92
KS	95	85	75
LA	98	95	99
MS	100	99	98
MO	93	67	89
NE	100	99	99
NM	60	65	NA
OK	79	74	75
SD	100	99	91
TX	89	97	89
12 States	93	90	NA
Excl. States with NA	94	90	86

These 12 states produced 98% of the 1990 grain sorghum crop.

NA - not available.

Winter Wheat % Planted

	1991	1990	Avg.
AR	17	10	15
CA	0	0	2
CO	97	97	97
GA	8	3	9
ID	78	87	84
IL	62	24	54
IN	64	32	48
KS	85	85	85
MI	80	60	55
MO	35	25	39
MT	90	92	85
NE	100	99	99
NC	20	13	13
OH	64	29	34
OK	77	68	75
OR	54	64	41
SD	96	98	98
TX	67	65	74
WA	75	89	86
19 STATES	73	69	72

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

Soybeans % Dropping Leaves

	1991	1990	Avg.
AL	68	80	67
AR	53	39	46
GA	88	94	82
IL	100	88	97
IN	100	92	96
IA	100	100	100
KS	99	95	90
KY	75	57	73
LA	48	58	69
MI	100	100	98
MN	96	98	99
MS	61	66	74
MO	87	74	88
NE	100	99	100
NC	62	57	39
OH	100	96	100
SC	32	38	35
SD	100	100	99
TN	78	63	76
19 States	89	84	88

These 19 states produced 95% of the 1990 soybeans crop.

Grain Sorghum % Harvested

	1991	1990	Avg.
AR	88	76	89
CO	37	30	24
IL	66	8	51
KS	45	30	30
LA	94	91	97
MS	84	92	92
MO	58	26	55
NE	84	40	47
NM	7	25	NA
OK	10	6	17
SD	83	67	42
TX	80	69	68
12 States	64	45	NA
Excl. States with NA	65	45	49

These 12 states produced 98% of the 1990 grain sorghum crop.

NA - not available.

Corn % Harvested

	1991	1990	Avg.
CO	24	10	16
GA	100	97	96
IL	88	22	53
IN	80	13	35
IA	47	38	49
KS	90	70	65
KY	75	45	60
MI	40	10	15
MN	51	25	42
MO	83	51	66
NE	74	40	41
NC	86	81	75
OH	59	8	20
PA	30	6	14
SD	77	37	29
TX	89	97	95
WI	32	9	25
17 STATES	66	31	44

THESE 17 STATES PRODUCED 95% OF THE 1990 CORN CROP.

Soybeans % Harvested

	1991	1990	Avg.
AL	13	32	22
AR	15	5	12
GA	7	17	11
IL	84	31	64
IN	78	24	47
IA	67	76	73
KS	65	40	30
KY	18	7	17
LA	20	39	35
MI	60	10	20
MN	75	79	78
MS	18	24	25
MO	39	16	32
NE	92	71	66
NC	6	7	5
OH	68	21	38
SC	1	3	3
SD	90	82	56
TN	12	8	15
19 States	58	39	47

These 19 states produced 95% of the 1990 soybeans crop.

Cotton % Bolls Opening

	1991	1990	Avg.
AL	95	99	97
AZ	97	100	98
AR	90	95	94
CA	100	100	100
GA	82	95	89
LA	98	100	100
MS	95	100	98
MO	92	91	94
NM	93	90	91
NC	98	98	98
OK	53	81	69
SC	92	96	94
TN	100	100	100
TX	61	71	62
14 States	78	85	80

These 14 states produced 99% of the 1990 cotton crop.

Cotton % Harvested

	1991	1990	Avg.
AL	60	78	55
AZ	25	32	24
AR	53	39	49
CA	5	5	9
GA	27	61	40
LA	60	80	70
MS	55	72	63
MO	66	36	58
NM	6	5	4
NC	33	35	19
OK	2	8	6
SC	31	51	35
TN	54	45	53
TX	26	21	20
14 States	34	35	33

These 14 states produced 99% of the 1990 cotton crop.

Rice % Harvested

	1991	1990	Avg.
AR	83	62	85
CA	50	55	45
LA	97	97	98
MS	65	82	91
TX	100	100	100
5 States	82	75	84

These 5 states produced 98% of the 1990 rice crop.

Crop Condition PERCENT

For Week Ending October 13, 1991

State	VP	P	F	G	EX
AL	0	1	37	59	3
AZ	0	0	33	45	22
AR	0	6	12	75	7
CA	0	0	10	90	0
GA	0	0	11	55	34
LA	0	0	26	63	11
MS	0	0	29	62	9
MO	0	0	58	42	0
NM	0	0	60	40	0
NC	0	0	14	84	2
OK	0	0	39	61	0
SC	0	0	38	62	0
TN	0	6	32	62	0
TX	0	7	50	41	2
14 State	0	4	37	54	5
Prev Week	0	7	37	52	4
Prev Year	1	5	40	50	4

VP - Very Poor P - Poor F - Fair
G - Good EX - Excellent

State Summaries of Weather and Agriculture

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

ALABAMA: Rainfall none to light; under 0.10 in. north. Temperatures 4 to 8° below normal.

Days suitable for fieldwork 6.5. Soil moisture 74% short, 26% adequate. Corn 96% harvested, 96% 1990, 90% avg. Sorghum 71% harvested, 87% 1990, 76% avg.; 14% fair, 83% good, 3% excellent. Peanuts 91% dug, 98% 1990, 78% avg.; 85% combined, 94% 1990, 66% avg.; 53% fair, 41% good, 6% excellent. Cotton 95% bolls opened, 99% 1990, 97% avg.; 60% harvested, 78% 1990, 55% avg.; 1% poor, 37% fair, 59% good, 3% excellent. Soybeans 91% turning color, 93% 1990, 86% avg.; 68% dropping leaves, 80% 1990, 67% avg.; 43% mature, 67% 1990, 47% avg.; 13% harvested, 32% 1990, 22% avg.; 1% very poor, 4% poor, 24% fair, 62% good, 9% excellent. Winter wheat 20% seeded, 22% 1990, 26% avg. Pastures 55% fair, 43% good, 2% excellent. Livestock 14% fair, 78% good, 8% excellent. Activities: Harvesting corn, cotton, hay, sorghum, soybeans, fall vegetables; digging, combining peanuts; preparing land, seeding winter annuals; mowing pastures; maintaining farm equipment; general care of livestock, poultry, catfish.

ARIZONA: Sunny, hot throughout period. Sunny, dry 6th through 11th; Sprinkles 11th, southwest; cloudy, 12th. Precipitation trace, southwest. Temperatures 2 to 12° above normal. Extremes 33°; 92° higher elevations, 49°; 108° deserts.

Cotton bolls opening 97%, 100% 1990, 98% avg.; Cotton harvested 25%, 32% 1990, 24% avg.; activities included monitoring insects, defoliating, harvesting. Cotton 33% fair, 45% good, 22% excellent; weed, insect infestations light to moderate. Alfalfa harvest moderate; weed, insect infestations light to moderate; alfalfa rated good. Lemons, cantaloupes, grapefruit harvested west; cantaloupes, watermelons harvested, central. Mixed vegetables harvested central, east. Apples, pistachios harvested, east.

ARKANSAS: Temperatures below normal. Extremes 28°; 92°. No rainfall.

Days suitable for fieldwork 7. Soil moisture supplies 60% short, 40% adequate. Corn 97% harvested, 94% 1990, 97% avg. Pasture 3% poor, 39% fair, 58% good. Alfalfa 48% fair, 52% good. Other hay 63% fair, 37% good. Livestock good. Activities: Harvesting rice, cotton, grain sorghum, corn, hay; seeding supplemental cool season forage. Pastures began to show drought stress in northwest. Cotton harvest had past its peak, with modules stacked throughout the growing area, gins running 24 hours a day.

CALIFORNIA: Strong high pressure provided record warmth statewide. No rain.

Field activities progressed, open weather. Rice harvest full swing. Cotton defoliation very active, some fields second application. Harvest gained momentum. Shredding, plow down after harvest underway. Corn grain, corn silage, dry beans, sugar beets harvested. Sugarbeets sprayed worm, leafhopper control. Safflower harvest winding down. Alfalfa hay, sudan grass harvests normal. Seed alfalfa

irrigated. Field preparation small grains progressed. Oat seeding continued. Harvest active for apples, late variety table and wine grapes, asian pears, figs, olives, pomegranates, persimmons. Raisin grapes 85% boxed. Virtually all stonefruit picked except Roysum variety plums. Warm nights delaying coloring. Nut crops almonds, walnuts, pistachios harvested at normal pace. New crop Navel oranges maturing. Harvest preparation active. Salinas Watsonville, Santa Maria areas: broccoli supplies moderate, good quality; cauliflower increased to fairly heavy supplies, variable quality. Celery volume fairly heavy, good quality. Lettuce movement, Salinas Watsonville area, moderate, variable quality; harvest fairly heavy, good quality, Santa Maria area. Fall lettuce harvesting started, Fresno area. Cantaloupe, honeydew, watermelon picking continued to wind down, San Joaquin, Sacramento Valley areas. Fall potato digging moved past mid point, Tullake Butte Valley area, good quality. Sweet potato harvest continued active, Merced Atwater area. Fall quarter fresh market tomato harvest continued, westside, Delta areas. Processing tomato harvest moved towards completion, Sacramento Valley area. Other vegetables harvested include: Beans, cherry tomatoes, cucumbers, eggplant, okra, peppers, squash, strawberries, sweet corn. Planting onions, garlic active, westside area. Range, pasture conditions good in northern districts to very poor in valley areas. Water supplies poor, supplemental feeding necessary, all areas. Movement to winter pastures delayed due to dry conditions. Shipment to feedlots active.

COLORADO: It was another warm week with virtually no precipitation. On the 13th a weak cold front moved through eastern areas, cooled temperatures 20° or so, no precipitation. Temperatures 2 to 4° above normal.

Days suitable for fieldwork 6.7. Soil moisture 7% very short, 49% short, 43% adequate, 1% surplus. Third cutting alfalfa hay 80% complete, 84% 1990, 85% avg.; fourth cutting 50% complete, 41% 1990, 30% avg. Oats 99% harvested, 100% 1990, 100% avg. Dry beans 90% harvested, 91% 1990, 90% avg. Sorghum is 87% mature, 77% 1990, 77% avg.; sorghum 37% harvested, 30% 1990, 24% avg. Fall potatoes 90% harvested, 76% 1990, 88% avg. Corn 96% mature, 94% 1990, 91% avg.; corn for grain 24% harvested, 10% 1990, 16% avg.; corn silage 99% harvested, 96% 1990, 97% avg. Corn 1% poor, 11% fair, 74% good, 14% excellent; sorghum 8% poor, 23% fair, 49% good, 20% excellent. Onion harvest 96% complete, 96% 1990, 89% avg. Winter wheat 97% seeded, 97% 1990, 97% avg.; winter wheat 80% emerged, 85% 1990, 83% avg. Livestock mostly good. Pasture, range feed excellent.

FLORIDA: Temperatures 4 to 6° below normal Panhandle, Big Bend areas, 1 to 4° below normal elsewhere. Extreme highs, upper 80s over State. Lows, middle to upper 30s Panhandle, Big Bend, middle 50s central Peninsula, upper 50s South interior. Dry weather Panhandle, Big Bend. Elsewhere, under quarter inch in most areas. Some local areas recorded over 1.0 in. Heavy rain near coastal southeast; over 13.0 in. Miami, 10.0 in. Ft. Lauderdale.

Soil moisture Panhandle short to adequate, Peninsula adequate to surplus. Cotton harvest, sugarcane planting active. Peanut harvest slowing down. Small grain planting gaining momentum. Sugarcane continued normal progress. States pastures mostly good. Pasture 30% fair, 55% good, 15% excellent. States herds mostly good to excellent. Citrus groves, trees very good to excellent condition. Moisture adequate, few groves too wet, new growth slowing. Early orange harvest increasing, grapefruit movement active all areas. Early tangerine harvest increases for fresh use. Caretakers cutting cover crops, spraying, plowing, disking. Drier, cooler most vegetable areas, except east coast, Dade County. Harvest of fall crops, planting increased. Volume increasing: snap beans, sweet corn, cucumbers, eggplant, peppers, radishes, squash, tomatoes, cherry tomatoes.

GEORGIA: Another dry week. Few light showers extreme east, amounts under 0.25 in. Cool week, temperatures 4 to 7° below normal. Record breaking cold temperatures early week. Minimums mostly mid, upper 30s, mid 20s to low 30s mountains, low to mid 40s extreme southeast. Frost common north, scattered light frost southwest. Temperatures warmed late week. Maximums mid or upper 70s north, to mid or upper 80s extreme south.

Days suitable for fieldwork 6.5. Soil moisture 14% very short, 66% short, 20% adequate. Sorghum 1% poor, 16% fair, 83% good; 74% harvested for grain, 70% 1990, 69% avg. Peanuts 2% poor, 45% fair, 53% good; 90% dug, 94% 1990, 85% avg.; 78% threshed, 85% 1990, 74% avg. Soybeans 5% poor, 50% fair, 45% good. Wheat 14% poor, 15% fair, 71% good; 2% emerged, 2% 1990, 5% avg. Rye 6% poor, 49% fair, 45% good; 30% planted, 24% 1990, 34% avg. Other small grains 13% poor, 29% fair, 58% good; 15% planted, 15% 1990, 16% avg. Apples 8% very poor, 9% fair, 83% good; 80% harvested, 93% 1990, 87% avg. Pecans 6% very poor, 36% poor, 30% fair, 28% good; 7% harvested, 7% 1990, 4% avg. Hay 8% poor, 40% fair, 50% good, 2% excellent. Pasture 4% poor, 41% fair, 52% good, 3% excellent. Cattle, hogs mostly good.

HAWAII: Mostly sunshine prevailed in the State except for a tropical disturbance that brought showers to windward, higher elevations early. Weather conditions were not affected by Tropical Depression Kevin which moved northeast of the islands. Water use restrictions continued in the Big Islands Lalamilo area, affecting irrigation, farm schedules. In Maui, cooler evening temperatures slowed growth of some crops. Rainfall none to 1.30 in.

Days suitable for fieldwork 7.0. Hot weather, insect, diseases infestations continued a problem in some crops. Banana, cucumber, papaya harvest remained active. Bacterial wilt reported in ginger root plantings.

IDAHO: Temperatures 2 to 12° above normal Statewide. No precipitation.

Days suitable for fieldwork 7. Soil moisture conditions 17% very short, 46% short, 37% adequate. Winter wheat 78% planted, 87% 1990, 84% avg.; 48% emerged, 48% 1990, 47% avg. Potato good; 80% harvested, 85% 1990, 89% avg. Sugarbeets 38% harvested, 31% 1990, 33% avg. Third cutting alfalfa 88% complete, 95% 1990, 97% avg. Apple harvest 35% complete, 74% 1990, 74% avg. Dry bean harvest 96% complete, 99% 1990, 96% avg. Onion harvest 87% complete, 89% 1990, 92% avg. Corn for grain 20% harvested, 7% 1990, 23% avg. Corn for silage 88% harvested,

86% 1990. Irrigation water supplies 16% very poor, 21% poor, 23% fair, 40% good. Activities: Planting of winter wheat, harvesting of potatoes, sugarbeets, onions, apples. Livestock good to excellent. Pasture, range conditions 76% of normal.

ILLINOIS: Temperatures normal to 3° below normal. Precipitation generally none to 0.50 in. across the State.

Days suitable for fieldwork 5.50. Soil moisture 41% short, 57% adequate, 5% surplus. Winter wheat emerged 18%, 10% 1990, 18% avg. Pasture condition as a % of normal, where 100% = normal, was 74%.

INDIANA: Temperatures 0 to 5° below normal. Highs low 60s to around 70. Lows upper 30s to mid 40s. Statewide rains 0.15 to 0.40 in. More north, less south. Some frost, freezing temperatures early in week.

Days suitable for fieldwork 5.6. Topsoil 49% short, 47% adequate, 4% surplus. Subsoil 72% short, 28% adequate. Corn moisture content 17%, 25.3% 1990, 21.5% avg. Soybean moisture content 12%, 13.6% 1990, 13.6% avg. Tobacco harvested 99%, 94% 1990, 97% avg. Winter wheat emerged 25%, 21% 1990, 25% avg. Winter wheat 45% good, 49% fair, 3% poor, 3% very poor. Winter wheat acres plowed 78%, 55% 1990, 70% avg. Pasture 52% of normal. Fall apple harvest 83%. Corn harvest at record pace, soybean harvest slightly below. Activities: Plowing of land, seeding winter wheat, rye, hauling manure.

IOWA: Temperatures 3° above west to 2° below normal northeast. Extremes 29°; 82°. No precipitation southwestern two-thirds; very light northeast with average only 0.01 in.

Days suitable for fieldwork 5.9. Topsoil 30% short, 69% adequate, 1% surplus. Subsoil 40% short, 59% adequate, 1% surplus. Pasture condition 79% of normal. Corn lodging, 11% none, 70% light, 18% moderate, 1% heavy. Corn ear droppage, 6% none, 72% light, 22% moderate. Winter wheat 75% planted, 85% 1990, 79% avg. Fall row crop tilling 8% complete, 6% 1990, 13% avg. Fall fertilizer application 6% complete, 6% 1990, 8% avg. Livestock mostly good, weather very favorable.

KANSAS: Temperatures normal to 4° above normal. Rainfall 0.01 in. east central, 0.25 in. northeast, none elsewhere. State getting very dry.

Days suitable for fieldwork 7.0. Topsoil 97% short, 3% adequate. Subsurface 92% short, 8% adequate. Corn, sorghum, soybean harvest excellent progress; well ahead of schedule. Wheat planting good progress, on schedule. Short surface, subsurface moisture preventing germination, emergence. Range, pastures short; little grazing available. Supplemental feeding underway. Some grazing corn, sorghum stubble noted. Stockwater short central, eastern areas; rancher moving stock to pasture where water is available or hauling water.

KENTUCKY: High temperatures mid 60s northeast to lower 70s west, 2 to 6° below normal. Low temperatures 35 to 40°, 5 to 10° below normal. Rainfall less than 0.10 in., 0.50 in. below normal.

Days suitable for fieldwork 5.1. Soil moisture 10% very short, 58% short, 31% adequate, 1% surplus. Corn for grain harvest 76% complete. Soybean 9% poor, 51% fair, 40% good. Burley tobacco curing well, good color. Weather favorable for wheat seeding. Pasture condition mostly fair to good.

LOUISIANA: Temperatures 5 to 7° below normal. Extremes 37°; 93°. No rainfall.

Days suitable for fieldwork 6.8. Soil moisture 12% very short, 50% short, 38% adequate. Hay 92% final cutting, 91% 1990, 93% avg. Pecans 19% poor, 62% fair, 19% good; 10% harvested, 2% 1990, 2% avg. Rice 99% ripe, 100% 1990, 100% avg. Second crop management, harvesting active. Soybeans 60% leaves turning color, 92% 1990, 91% avg. Sweet potatoes 71% fair, 29% good; 74% harvested, 71% 1990, 78% avg. Harvesting slowed, some stopped due to bruising, skinning caused by dry soils. Sugarcane 12% fair, 68% good, 20% excellent; 94% planted, 88% 1990, 94% avg.; 7% harvested, 0% 1990, 5% avg. Recently planted fields in need of rain to initiate germination. Wheat 7% planted, 3% 1990, 6% avg.; 2% emerged, 1% 1990, 2% avg. Planting slowed due to dry soils. Vegetables 12% poor, 55% fair, 33% good. Pastures 1% very poor, 1% poor, 10% fair, 14% good, 74% excellent. Livestock 20% fair, 72% good, 8% excellent. Crawfish pond flooding continued.

MARYLAND & DELAWARE: **MARYLAND:** Precipitation 0.62 in. Temperature 58.6°, normal 59.3°. Extremes 23°; 87°.

Days suitable for fieldwork 5.8. Topsoil 5% very short, 37% short, 58% adequate. Subsoil 11% very short, 47% short, 42% adequate. Field corn fair, soybeans fair to good, sorghum, tobacco good. Field corn 67% harvested for grain, 56% 1990, 61% avg. Soybeans 84% shedding leaves, 68% 1990, 65% avg.; 17% harvested, 12% 1990, 13% avg. Sorghum 35% harvested, N/A 1990, N/A avg. Sweet Potatoes 69% harvested, 81% 1990, 74% avg. Small grains good. Wheat 15% seeded, 20% 1990, 24% avg. Barley 50% seeded, 57% 1990, 52% avg. Rye 44% seeded, 51% 1990, 47% avg. Other hay third cut 50% complete, 81% 1990, N/A avg.; fourth cut 27% complete, 35% 1990, N/A avg. Alfalfa fourth cut 74% complete, 81% 1990, 76% avg.; Alfalfa fifth cut 13% complete, 18% 1990, N/A avg. Hay supplies short to adequate. Pasture poor to fair. Apples good; 77% harvested, 81% 1990, 82% avg. Activities: Harvesting hay, vegetables; repairing fence; hauling manure; spreading fertilizer; maintaining machinery; caring for livestock.

DELAWARE: Precipitation 0.28 in. Temperature 58.1°, normal 59.8°. Extremes 35°; 86°.

Days suitable for fieldwork 6.5. Topsoil 33% short, 67% adequate. Subsoil moisture 33% short, 67% adequate. Field corn, sorghum, good, soybeans fair to good. Field corn 84% harvested for grain, 76% 1990, 73% avg. Soybeans 83% turned, 89% 1990, 83% avg.; 61% shedding leaves, 64% 1990, 56% avg.; 11% harvested, 15% 1990, 10% avg. Sorghum 94% turned, N/A 1990, N/A avg.; 93% mature, N/A 1990, N/A avg.; 58% harvested, N/A 1990, N/A avg. Small grains good. Wheat 10% seeded, 18% 1990, 14% avg. Barley 40% seeded, 64% 1990, 38% avg. Rye 42% seeded, 38% 1990, 29% avg. Oats 50% seeded, N/A 1990, N/A avg. Other hay fourth cut 93% complete, N/A 1990, N/A avg. Alfalfa fifth cut 16% complete, 16% 1990, N/A avg. Hay supplies adequate. Pasture good. Apples good, 79% harvested, 84% 1990, 74% avg. Activities: Harvesting hay, vegetables; repairing fence; hauling manure; spreading fertilizer; maintaining machinery; caring for livestock.

MICHIGAN: Temperatures 2 to 6° below normal. Extremes 22°; 74°. Precipitation 0.02 to 0.47 in. across the State.

Days suitable for fieldwork 5.5. Soil moisture 15% short, 70% adequate, 15% surplus.

Corn 40% harvested, 10% 1990, 15% avg. Soybeans 100% dropping leaves, 100% 1990, 98% avg.; 60% harvested, 10% 1990, 20% avg. Winter wheat 80% planted, 60% 1990, 55% avg. Pasture condition 80% of normal. Activities: Planting wheat, harvesting corn, soybeans, drybeans, sugarbeets, spreading fertilizer, lime, making cider, cutting wood, repairing, storing equipment.

MINNESOTA: Temperatures 0 to 3° below normal. Extremes 21°; 81°. Precipitation none to 0.11 in. Greatest weekly total 0.33.

Days suitable for fieldwork 6.2. Topsoil 2% very short, 13% short, 80% adequate, 5% surplus. Field corn 51% picked/combined, 25% 1990, 42% avg.; 98% silage cut 92% 1990, 90% avg.; 21% moisture 30% 1990, 23% avg.; 18% stubble plowed, 10% 1990, 17% avg. Soybeans 75% combined, 79% 1990, 78% avg.; 12% moisture, 11% 1990, 12% avg.; 28% stubble plowed, 31% 1990, 37% avg. Potatoes 89% harvested, 94% 1990, 93% avg. Sugarbeets 85% harvested 72% 1990, 72% avg. Sunflowers 78% harvested, 70% 1990, 56% avg.

MISSISSIPPI: Temperature 67°, 7.3° below normal. Extremes 28°; 90°. No rainfall. State rainfall none, 0.61 below normal. Soil temperature 67°.

Days suitable for fieldwork 6.6, 4.4 1990, 4.8 avg. Soil moisture 6% very short, 41% short, 53% adequate. Corn 85% harvest, 89% 1990, 87% avg.; 2% very poor, 11% poor, 59% fair, 28% good. Cotton open bolls 95%, 100% 1990, 98% avg.; 55% harvest, 72% 1990, 63% avg.; 29% fair, 62% good, 9% excellent. Peanuts 90% harvest, 93% 1990, 89% avg. Rice 95% mature, 99% 1990, 99% avg.; 65% harvest, 82% 1990, 91% avg.; 59% fair, 41% good. Sorghum 84% harvest, 92% 1990, 92% avg.; 95% silage harvested, 99% 1990, 97% avg.; 14% poor, 49% fair, 37% good. Soybeans 87% coloring, 87% 1990, 89% avg.; 61% shedding leaves, 66% 1990, 74% avg.; 18% harvest, 24% 1990, 25% avg.; 6% poor, 30% fair, 64% good. Sweet potatoes 72% harvest, 70% 1990, 72% avg. Wheat planted 21%, 16% 1990, 19% avg.; 10% emerged, 14% 1990, 13% avg.; 2% poor, 69% fair, 29% good. Hay 97% harvested, 94% 1990, 94% avg. Pecans 4% harvest, 1% 1990, 4% avg.; 2% very poor, 45% poor, 12% fair, 41% good. Livestock 17% fair, 68% good, 15% excellent. Pasture 89% of normal. Activities: Harvesting crops, planting wheat.

MISSOURI: Temperatures normal Kansas City to 7° below normal Caruthersville. Rainfall 0.02 in.; all areas dry except isolated showers southeast.

Days suitable for fieldwork 5.7. Topsoil 44% short, 54% adequate, 2% surplus. Subsoil 55% short, 44% adequate, 1% surplus. Corn harvest ranges 75% complete northern districts to 97% southeast. Soybean harvest ranges 17% southwest, southeast to about 50% northwest, north central, west central. Sorghum harvest ranges 28% northeast to 72% southeast. Rain needed for fall wheat seedings. Wheat emerged 17%, 13% 1990, 21% avg. Fields worked at least once for spring crops 13%, 5% 1990, 13% avg. Pasture 11% very poor, 24% poor, 43% fair, 21% good, 1% excellent.

MONTANA: Temperatures significantly above normal. No precipitation.

Days suitable for fieldwork 6.8. Topsoil 46% short, 52% adequate, 2% surplus. Subsoil 45% short, 53% adequate, 2% surplus. Winter wheat emerged 48%, 63% 1990, 58% avg.; 2% poor, 33% fair, 50% good, 15% excellent. Potatoes harvested 71%, 78% 1990, 75% avg. Sugarbeets harvested 36%, 54% 1990, 45% avg. Dry beans harvested 97%, 89% 1990, 94% avg. Corn silage harvested 93%, 93% 1990, 94% avg. Pasture, range feed 92% of normal.

NEBRASKA: Temperatures 6° above normal across the State. Very little precipitation.

Days suitable for fieldwork 6.7. Topsoil moisture 81% short, 19% adequate. Subsoil moisture 82% short, 18% adequate. Corn 74% harvested, 40% 1990, 41% avg. Soybeans 92% harvested, 71% 1990, 66% avg. Sorghum 84% harvested, 40% 1990, 47% avg. Wheat 87% emerged, 85% 1990, 91% avg. Cattle moved onto stalk fields as available.

NEVADA: Temperatures above normal. Extremes 18°; 105°. Rainfall none to trace. High pressure systems resulted in high clouds but no rain over most areas. High temperatures remained 6 to 13° above normal. Nighttime lows were cool.

Good weather aided potato, alfalfa seed harvest, and winter grain seeding. Livestock remain in mostly good condition, continuing movement to winter grazing, market. Pastures and ranges remain extremely dry.

NEW ENGLAND: Precipitation 0.15 to 2.50 in. south, 0.85 to 2.90 in. north. Temperatures mid 40s to mid 50s; 1° below to 4° above normal. Maximum temperatures low 60s to low 70s; minimum temperatures high 20s to low 40s.

Days suitable for fieldwork 5.3. Soil moisture 65% adequate, 35% surplus. Grazing availability 4% very short, 18% short, 67% adequate, 11% surplus. Fieldwork 0.8 day ahead of schedule. Maine potatoes 75% harvested, 82% 1990, 87% avg; condition good. Rhode Island potatoes 93% harvested, 87% 1990, 97% avg; condition fair to good. Connecticut Valley potatoes 90% harvested, 90% 1990, 82% avg; condition good. Field corn 84% harvested, 72% 1990, 72% avg; condition good. Third cut hay 87% complete, 98% 1990, 87% avg; condition good. Apples 91% harvested, 81% 1990, 85% avg; size medium, condition good. Pears 100% harvested, condition fair to good. Cranberry harvest 67% complete, berry size medium to small, condition good. Activities: Harvesting apples, potatoes, field corn, cranberries; stripping tobacco; planting cover crops.

NEW JERSEY: Temperatures below normal. Extremes 25°; 77°. Rainfall 0.34 in. north, 0.17 in. central, 0.08 in. south. Heaviest 24 hour total 0.55 in. on 11th, 12th. Estimated soil moisture percent field capacity: 89% north, 74% central, 63% south. Four inch soil temperature averaged 52° north, 55° central, 56° south.

Days suitable for fieldwork 6 to 7. Soil moisture adequate in most areas. Some irrigation in use where soil moisture is short. Below normal temperatures slowed crop growth. Harvest of corn very active, soybeans active. Sweet potato, Irish potato digging active. Fall variety apple harvest in progress. Cranberry harvest well advanced. Fall vegetable harvest in progress. Plowing, planting active for cover crops. Early seeding growth good. Pasture growth good.

NEW MEXICO: Warm, dry conditions prevailed. Temperatures generally 3 to 6° above normal with the northeastern plains 7 to 9° warmer than normal. No precipitation.

Days suitable for fieldwork 7.0. Soil moisture 38% short, 62% adequate. Crop conditions: Alfalfa 38% fair, 57% good, 5% excellent. Corn 8% poor, 92% good. Irrigated sorghum 25% fair, 75% good. Dryland sorghum 20% fair, 80% good. Irrigated wheat 20% fair, 80% good. Dryland wheat 29% fair, 71% good. Chile 62% fair, 38% good with red harvest progressing. Lettuce good condition with harvest active.

Pecan, apples fair to good. Cattle, sheep fair to good. Range 93% of normal.

NEW YORK: Wet week. Many areas received over an inch of rainfall. Week started with thunderstorms, sleet in west. In the Adirondacks, a trace of snow was on the ground morning of the 7th. Extremes 26°; 76°.

Days suitable for fieldwork 5.5. Soil moisture short to mostly adequate. Pasture conditions 60% of normal. Corn for grain harvest 15% finished, 9% 1990, 10% avg. Silage 80% harvested 57% 1990, 58% avg. Potato harvest winding down. Third cutting alfalfa near completion. Fall plowing active. Winter wheat was up in some areas. Apple picking in Lake Ontario region near complete. Hudson Valley growers picking late varieties and cleaning up orchards. Storage quality has been good. Cider making in full swing. Vegetable harvest slowed. Only late season crops remain for harvest. Pumpkin picking active.

NORTH CAROLINA: Temperatures 3 to 9° below normal. Precipitation none to 1.57 in.

Days suitable for fieldwork 6.0. Soil moisture 1% very short, 22% short, 74% adequate, 3% surplus. Crop condition: cotton 14% fair, 84% good, 2% excellent; peanuts 24% fair, 76% good; soybeans 3% poor, 24% fair, 70% good, 3% excellent; Sweetpotatoes 3% poor, 22% fair, 69% good, 6% excellent; sorghum 30% fair, 68% good, 2% excellent; Pasture 4% poor, 27% fair, 69% good. Harvested: Corn for Grain 86%; sorghum for grain 58%; sweet potatoes 50%; Apples 89%; Peanuts dug 72%; Peanuts threshed 48%; cotton 33%. Soybeans dropping leaves 62%; wheat emerged 12%. Planted: Wheat 20%; oats 39%; barley 35%; rye 29%. Activities: Harvesting tobacco, corn, sorghum, sweet potatoes, soybeans, truck crops, apples, peanuts, hay; harvesting and defoliating cotton; planting small grains. Other activities included: land preparation; seeding pastures; shearing Christmas trees; tending livestock.

NORTH DAKOTA: Temperatures 1° below normal northeast, east central to 3° above normal northwest, southwest. Extremes 13°, 85°. Precipitation none.

Days suitable for fieldwork 6.8. Topsoil 27% very short, 32% short, 39% adequate, 2% surplus. Subsoil 33% very short, 48% short, 19% adequate. Corn for grain 92% harvested, 28% 1990, 39% avg. Sunflower 71% harvested, 61% 1990, 49% avg. Potatoes 96% dug, 99% 1990, 98% avg. Soybeans 99% combined, 86% 1990, 80% avg. Sugarbeets 93% lifted, 88% 1990, 82% avg. Pasture conditions 70% of normal. Stockwater supplies 20% very short, 43% short, 37% adequate.

OHIO: Temperatures 1 to 5° below normal. Coldest readings upper 20s across the State. Rainfall 0.15 to 0.55 in. north, south 0.70 to 0.90 in. central. Harvest activities were held up temporarily, while most of the State stayed dry.

Days suitable for fieldwork 5.3. Fall harvest two weeks ahead of schedule. Soil moisture 54% short, 43% adequate, 3% surplus. Pastures 15% very poor, 26% poor, 35% fair, 21% good, 3% excellent. Pastures in the southeast. counties not supporting normal livestock populations; Some hay being fed in these areas. Potato harvest 90% complete, 73% in 1990, 77% 5 yr avg. Fourth cut alfalfa 54% housed. Sugarbeet harvest underway, a week ahead of normal, sugar content excellent. Grape harvest also reporting excellent quality. Major field activity is sowing winter grains; top soil moisture adequate for germination. A few reports of spotty wheat fields in the northwest, recent rains welcomed.

OKLAHOMA: Temperatures 3° below normal southeast to 4° above normal Panhandle, west central. Precipitation none statewide.

Days suitable for fieldwork 6.8. Topsoil 45% short, 55% adequate. Subsoil 29% short, 71% adequate. Wheat 77% planted, 68% 1990, 75% avg.; 43% up to stand, 35% 1990, 44% avg. Wheat fair. Cotton 53% open bolls, 81% 1990, 69% avg.; 2% harvested, 8% 1990, 6% avg. Cotton good. Sorghum 79% mature, 74% 1990, 75% avg.; 10% harvested, 6% 1990, 17% avg. Sorghum fair. Soybeans 62% mature, 49% 1990, 59% avg.; 27% harvested, 19% 1990, 34% avg. Peanuts 87% mature, 81% 1990, 86% avg.; 34% harvested, 22% 1990, 18% avg. Corn 95% harvested, 79% 1990, 94% avg. Pasture condition 99%. Crop insect activity moderate. Cattle good condition; marketings average; prices lower.

OREGON: Temperatures above normal statewide. South central 9° above normal. Elsewhere 5° above normal. Only precipitation in Brookings, a trace. Elsewhere remained dry.

Soil moisture 84% short, 16% adequate. 1992 winter wheat planted, 54%. 1992 winter wheat emerged, 18%. 1992 barley planted, 27%. Harvesting of field crops concluding. Field preparation, seeding underway throughout State, some waiting due to lack of precipitation. Dry conditions delayed planting and emergence of 1992 grains. Hazelnut harvest continued. Red raspberry growers removing old fruiting canes. Anjou pear harvest concluding and apple harvest 10 days from completion, Hood River Valley. Harvest of blackberries, final stages. Cranberry harvest continued, southern coast. Cranberry size somewhat smaller, due to dry conditions. Application of tree fruit cleanup sprays underway. Sweet corn, onion, and cabbage harvest continued, Willamette Valley. Potato harvest continues, excellent digging conditions; statewide. Storage potato, onion harvest concluding, Umatilla Co. Seed potato harvest finishing, Wallowa Co. Livestock condition was mostly good to excellent. Stockwater short in eastern areas. Weanings, pre conditioning, shipping of calves continued. Cattle continue to come off ranges. Statewide range, pasture, 7% very poor, 23% poor, 41% fair, 29% good.

PENNSYLVANIA: Cool, dry across Commonwealth. Temperature 50°, 8° below normal. Extremes 23°; 75°. Precipitation 0.51 in., 0.25 in. below normal.

Days suitable for fieldwork 5. Soil moisture 68% short, 32% adequate. Corn 100% dent, 99% 1990, 98% avg.; 84% mature, 49% 1990, 66% avg.; 30% harvested, 6% 1990, 14% avg. Ensilage corn harvested 92% harvested, 52% 1990, 69% avg. Corn crop condition 18% very poor, 26% poor, 30% fair, 21% good, 5% excellent. Soybean harvest 14% complete, 3% 1990, 15% avg. Soybean 16% very poor, 23% poor, 30% fair, 28% good, 3% excellent. Potato harvest 86% complete, 76% 1990, 80% avg. Fall plowing 72% complete, 72% 1990, 76% avg. Winter wheat 74% planted, 61% 1990, 66% avg. Barley 87% planted, 81% 1990, 85% avg. Third cutting alfalfa 92% complete, 85% 1990. Fourth cutting alfalfa 70% complete, 55% 1990. Quality of hay mostly fair. Feed obtained from pastures 33% very poor, 31% poor, 32% fair, 4% good. Apple harvest 73% complete, 71% 1990. Grape harvest 87% complete, 71% 1990. Activities: Repairing fence; hauling manure; harvesting hay, potatoes, fruits, corn silage, corn, soybeans; maintaining machinery; caring for livestock; fall plowing planting.

PUERTO RICO: No Data Available.

SOUTH CAROLINA: Temperatures 3 to 5° below normal. Rainfall none in north central to 0.60 in. mountains.

Days suitable for fieldwork 6.2. Soil moisture 5% very short, 70% short, 25% adequate. Apples good; 93% harvested, 93% 1990, 83% avg. Cotton 38% fair, 62% good; 92% open bolls, 96% 1990, 94% avg.; 31% harvested, 51% 1990, 35% avg. Fall hay fair to good; 84% harvested, 76% 1990, 81% avg. Peanuts fair to good; 77% harvested; 53% 1990, 44% avg. Sorghum fair to good; 63% harvested, 69% 1990, 55% avg. Soybeans 6% poor, 61% fair, 33% good; 73% leaves turning, 79% 1990, 69% avg.; 32% shedding leaves, 38% 1990, 35% avg., 21% mature, 27% 1990, 22% avg.; 1% harvested, 3% 1990, 3% avg. Sweet potatoes fair to good; 70% harvested, 64% 1990, 50% avg. Winter grazing fair to good, 50% planted, 51% 1990, 53% avg.; 30% emerged, 31% 1990, 35% avg. Pastures 1% very poor, 4% poor, 68% fair, 27% good.

SOUTH DAKOTA: Temperatures 1 to 6° above normal in east, 6 to 12° above normal in the central, western parts of the State. Extremes 12°; 87°. No measurable rainfall.

Days suitable for fieldwork 6. Topsoil 30% critical, 44% short, 26% adequate. Subsoil 33% critical, 42% short, 25% adequate. Sunflowers 2% very poor, 10% poor, 20% fair, 61% good, 7% excellent. Winter Wheat 10% poor, 30% fair, 49% good, 11% excellent. Winter Rye 1% poor, 6% fair, 81% good, 12% excellent. Livestock 1% poor, 6% fair, 81% good, 12% excellent. Pasture conditions 80% of normal.

TENNESSEE: Temperatures below normal statewide. Rainfall 0.50 in. below normal.

Days suitable for fieldwork 5.8. Soil moisture 3% very short, 42% short, 55% adequate. Corn 72% harvested grain, 59% 1990, 73% avg. Cotton 54% harvested, 45% 1990, 53% avg.; 6% poor, 32% fair, 62% good. Sorghum 56% harvested, 56% 1990, 82% avg. Soybeans 78% shedding leaves, 63% 1990, 76% avg.; 36% mature, 28% 1990, 49% avg.; 12% harvested, 8% 1990, 15% avg.; 3% poor, 56% fair, 41% good. Burley tobacco 24% stripped, 22% 1990, 20% avg. Wheat 26% seeded, 18% 1990, 27% avg. Pastures 2% very poor, 2% poor, 39% fair, 53% good, 4% excellent. Cattle 12% fair, 82% good, 6% excellent.

TEXAS: Little rain fell across State last week. State locked under stable mass of air marked by high pressure. Resulting pattern cut off the Gulf moisture, no fuel available for shower activity. Week started off rather cool, warm conditions prevailed by end of week. Warming trend started in western growing areas of State, spreading eastward. Departures of rainfall -0.33 in. Trans Pecos to -1.01 in Upper Coast. Most areas reported below normal temperatures; -1° in north central to -5° in lower Rio Grande Valley. The Plains had above average temperature. All areas of State had below normal rainfall totals.

Crops: Corn harvest winding down in High Plains. Sorghum harvest continued to move ahead of schedule last week. Some dryland fields on Plains being cut for hay. Statewide sorghum 88% of normal compared with 76% 1990. Warm temperatures on Plains ideal for cotton fields, as bolls opening rapidly. Cotton needs much heat as possible. Many producers have started using harvest aids to prepare for harvest in High Plains. Disease problems continue to cause concern for some fields. Small grain planting active; however, moisture needed for germination of dryland wheat, oats. Some wheat fields being

irrigated on Plains. Emerged wheat, oats improved; however, rain needed to promote forage growth. Soybean harvest full swing in High Plains. Overall yields above normal, having benefitted from September rainfall. Open conditions favorable for peanut harvest in Cross Timbers. Yields, grades average. Statewide peanut 86% of normal.

Commercial Vegetables: East Texas, late tomato harvest began. Land preparation for spring crops underway, onions being planted. Trans-Pecos, red chile pepper harvest continued. Most of bell peppers destroyed by a virus. Harvest early pecan varieties progressing, as shucks split.

Range and Livestock: Ranges in South Texas showing signs of stress from lack of moisture. Adequate grass supply, rain needed soon to improve conditions. Small grains providing some grazing across State.

UTAH: Temperature maximums 7° above normal; minimums 1° above normal. No precipitation.

Days suitable for fieldwork 6.8. Soil moisture 22% short, 78% adequate. Winter wheat seeding 95% completed, 86% 1990, 90% avg. Corn grain 25% harvested, 41% 1990, 35% avg. Corn silage harvest 90% finished, 89% avg. Fourth crop alfalfa hay 76% cut, 86% 1990, 79% avg. Apple harvest 80% completed, 72% 1990, 75% avg. Warm weather inhibited apple coloring some areas. Potato harvest 83% completed, 86% 1990, 75% avg. Cattle 65% in from range, 73% 1990, 67% avg. Sheep 80% in from range, 77% 1990, 73% avg. Onion, alfalfa seed harvests winding down. Summer rains helped hold water supplies in south central areas, range condition seem improved.

VIRGINIA: Temperatures 1 to 2° below normal. Extremes 24°; 89°. Rainfall slightly below normal.

Days suitable for fieldwork 5.9. Topsoil 19% very short, 38% short, 36% adequate, 7% surplus. Corn for grain 75% harvested, 61% 1990, 60% avg. Corn silage 97% harvested, 94% 1990, 90% avg. Soybeans 10% harvested, 6% 1990, 3% avg.; 6% poor, 61% fair, 33% good. Peanuts 90% dug, 70% 1990, 59% avg.; combined 80%, 57% 1990, 46% avg.; mostly good. Sweet potato harvest nearly 75% completed. Apple harvest neared 80% complete. Cotton harvest neared 20% complete. Wheat seeded 18% completed, 18% 1990, 12% avg. Barley 40% seeded, 38% 1990, 34% avg. Oats 60% seeded, 60% 1990, 50% avg. Pasture 25% very poor, 27% poor, 26% fair, 20% good, 2% excellent. Harvesting cucumbers, snap beans.

WASHINGTON: Temperatures 6° above normal to 1° below normal, east; 5° above normal to 2° below normal, west. No precipitation.

Days suitable for fieldwork 7. Soil moisture 70% short, 30% adequate. Hay, other roughage 1%

very short, 10% short, 88% adequate, 1% surplus. Irrigation water 100% short. Range, pasture 4% very poor, 54% poor, 39% fair, 3% good. Winter wheat 6% very poor, 44% fair, 50% good. Potatoes 100% good. Dry beans 100% good. Corn 100% good. Winter wheat 75% planted, 64% emerged. Potatoes 63% harvested. Corn for grain 13% harvested. Alfalfa hay, 3rd cutting 100%. No major change in moisture across the State. Dry conditions continued across the State, creating problems with the dryland grain seeding process. In Whitman County, the soil was too dry to drive a soil probe in the ground below 2 inches. Early seeded wheat still looked good; however, moisture stress was present in the later seedings. Apple harvest was in full swing in the apple producing regions. Cattle were generally being moved off ranges and Forest Service land before hunting season. Cattle coming off summer ranges generally looked good.

WEST VIRGINIA: Temperature 50°. Extremes 23°; 79°. Precipitation 0.27 in.

Days suitable for fieldwork 5.4. Soil moisture 36% very short, 40% short, 24% adequate. Corn, 3% very poor, 58% fair, 39% good; 96% mature, 73% harvested. Tobacco, good; 95% harvested. Hay, 17% very poor, 21% poor, 31% fair, 31% good; 86% second cutting, 86% third cutting. Wheat, 21% sown. Apples poor. Pastures, 29% very poor, 25% poor, 35% fair, 11% good; 51% of normal. Cattle, fair. Sheep, very poor. Activities: General maintenance, fencing, cutting hay, harvesting corn, chopping silage, harvesting tobacco, apples, planting wheat, marketing livestock.

WISCONSIN: Temperature 47°, 3° below normal. Extremes 20°; 79°. Precipitation 0.10 to 0.30 in.

Days suitable for fieldwork 5.7. Soil moisture 7% short, 83% adequate, 10% surplus. Pasture condition 78% of normal, 85% 1990, 76% avg. General condition of crops 1% poor, 15% fair, 75% good, 9% excellent. Corn 5% poor, 9% fair, 64% good, 22% excellent. Corn harvested 32%, 9% 1990, 25% avg. Corn silo filling 85% complete, 67% 1990, 62% avg. Soybean 14% fair, 73% good, 13% excellent. Soybeans 43% harvested, 16% 1990, 31% avg. Fall tillage 24%, 18% 1990, 20% avg.

WYOMING: Temperatures above normal. Precipitation below normal statewide.

Days suitable for fieldwork 6.8. Topsoil 50% short, 48% adequate, 2% surplus. Subsoil 32% short, 66% adequate, 2% surplus. Corn for grain 25% harvested, 20% 1990, 15% avg. Dry bean 95% harvested, 95% 1990, 85% avg. Potatoes 95% harvested, 85% 1990, 80% avg. Sugarbeets 35% harvested, 35% 1990, 45% avg. 1992 winter wheat 98% seeded, 98% 1990, 98% avg.; 85% emerged, 85% 1990, 85% avg.; mostly fair to good. Range, pastures good to excellent. Livestock good to excellent.

International Weather and Crop Summary

HIGHLIGHTS

October 6 - 12, 1991

USSR ... In Western USSR, unseasonably warm, dry weather helps summer crop harvesting. In the New Lands, little, if any, precipitation allows final harvest efforts.

EUROPE ... Heavy rain delays fieldwork in Italy's Po Valley. Dry weather prevails in the east.

EASTERN ASIA ... Typhoon Orchid brings more flooding to eastern Japan. Dry weather aids harvesting throughout China, while moisture is needed for winter wheat germination in portions of the North China Plain.

SOUTHEAST ASIA ... Inundating rains continue in Indochina. Drought persists in Java.

SOUTH ASIA ... Continuing rain in southern and eastern India benefit fall crop establishment.

SOUTH AMERICA ... In Argentina, beneficial rains aid winter wheat, while freezing temperatures return to the south. Widespread showers continue to favor summer crops and coffee/citrus flowering in southern Brazil.

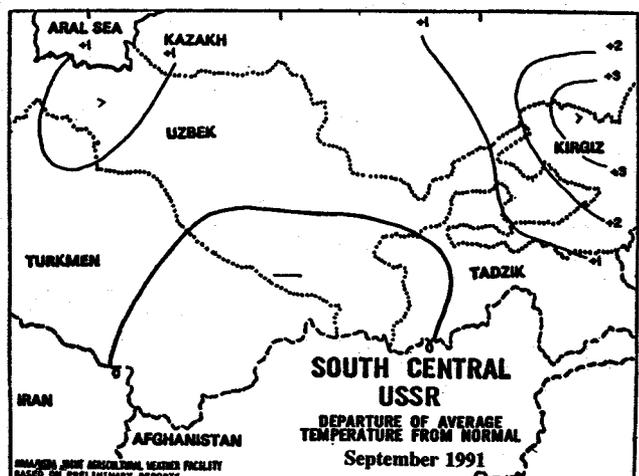
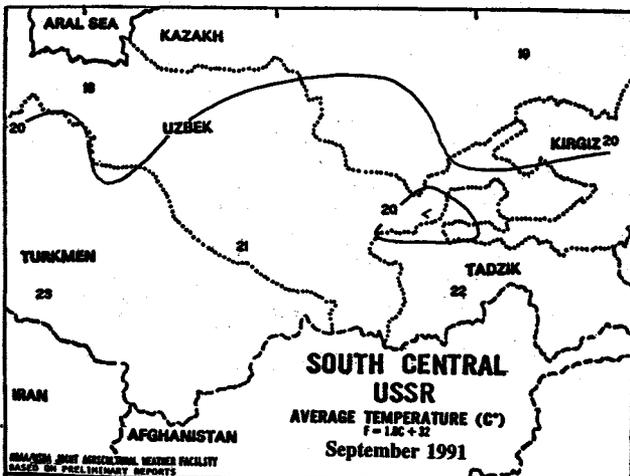
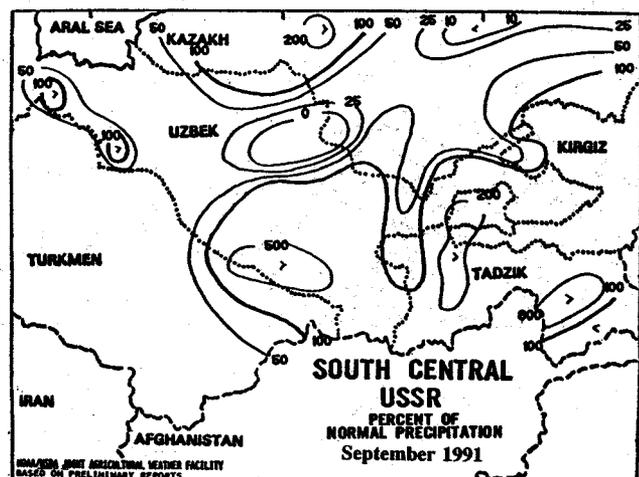
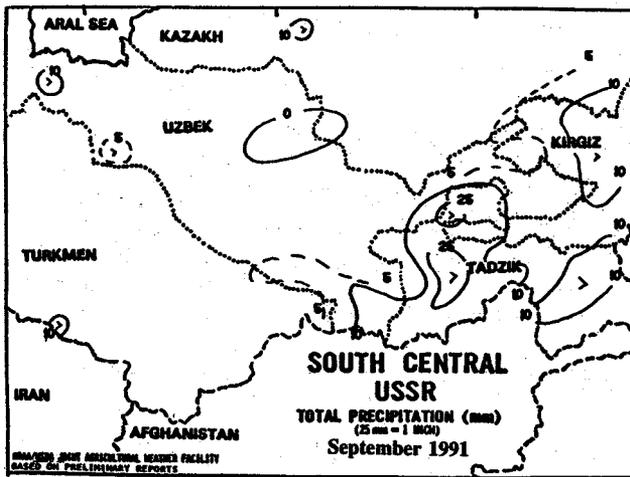
AUSTRALIA ... Dryness continues in Queensland and develops in the west.

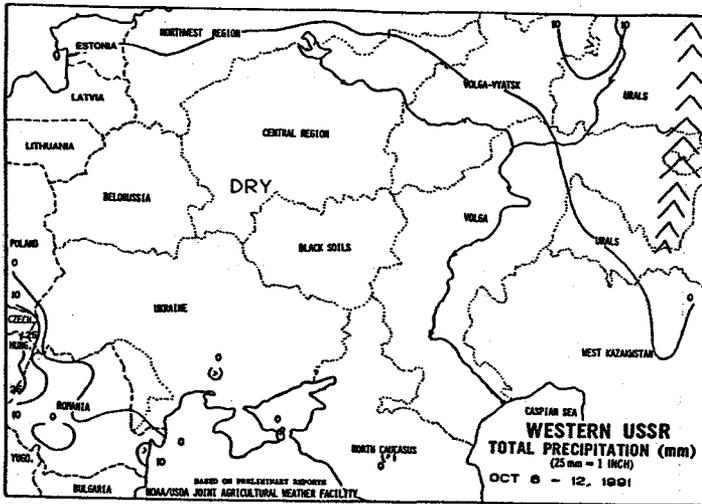
CANADA ... Dry weather favors final harvests.

MEXICO ... Widespread rains continue across the southern corn belt, delaying summer crop harvesting.

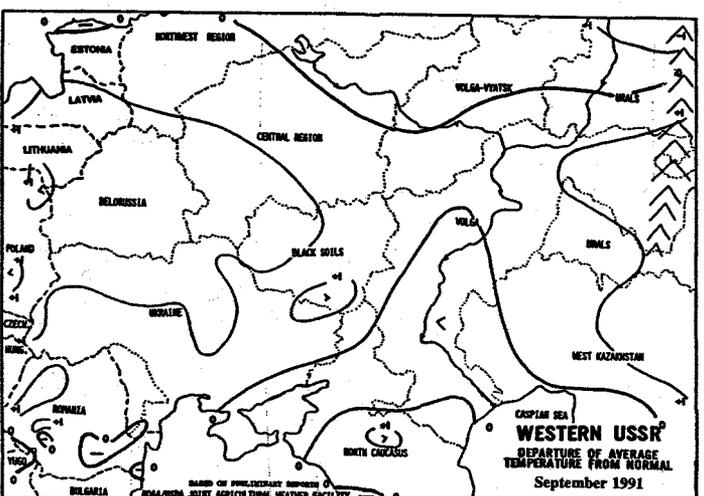
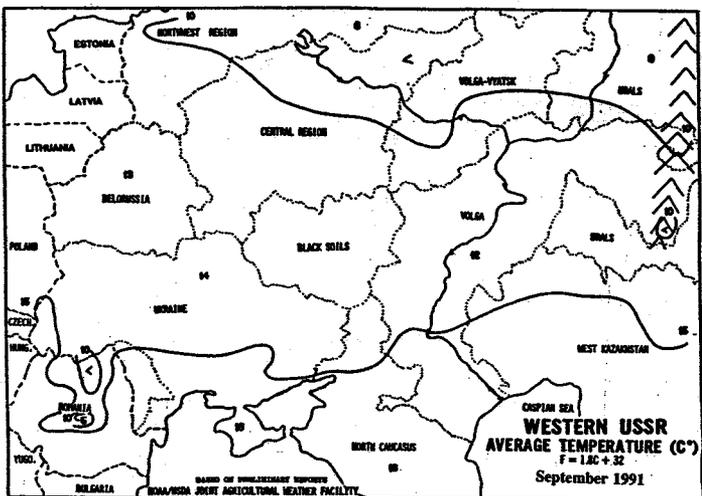
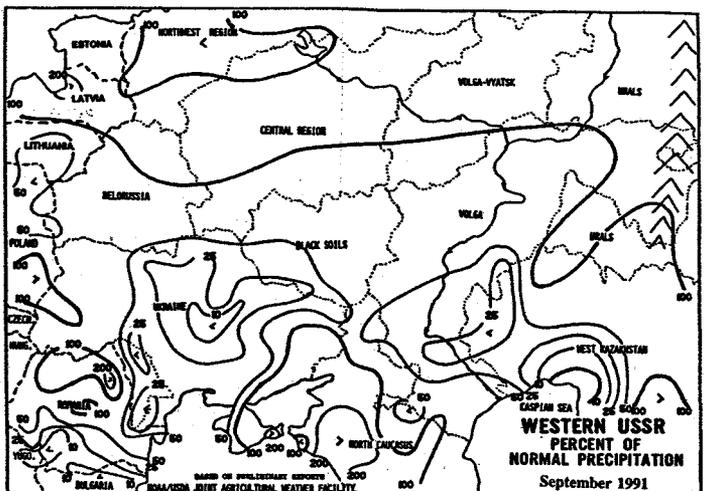
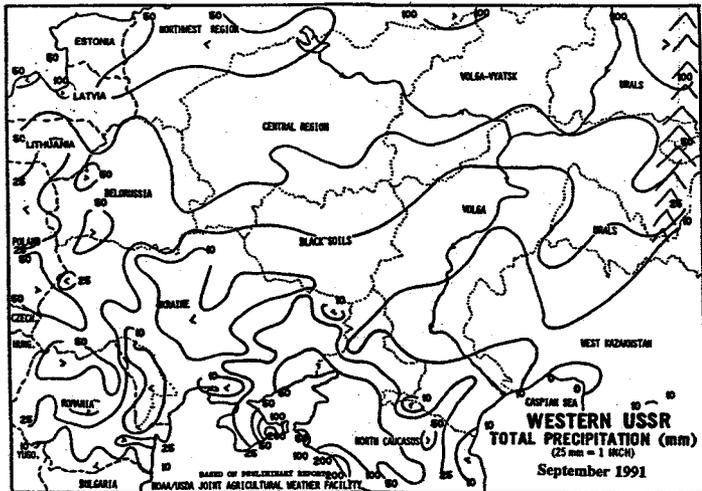
NORTHWESTERN AFRICA ... Widespread moderate rain in Morocco helps to recharge soil moisture for upcoming winter grain planting.

SOUTH AFRICA ... Light rain improves planting moisture in eastern corn areas.

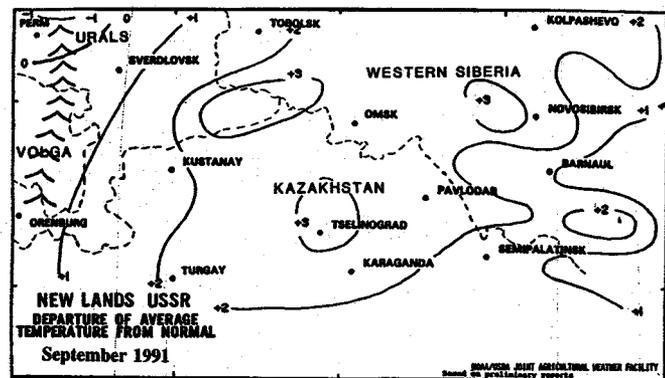
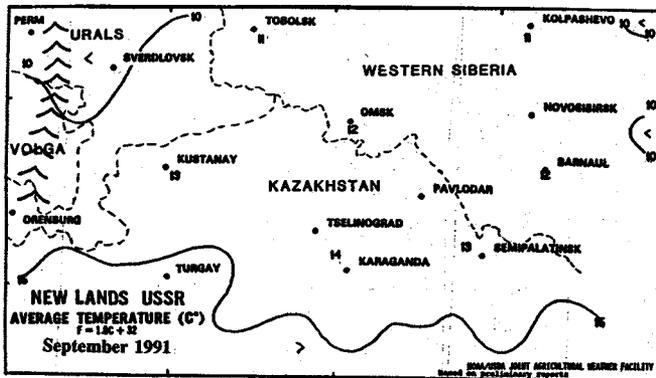
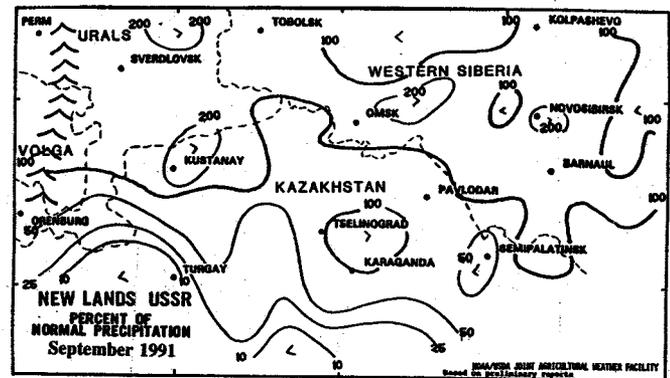
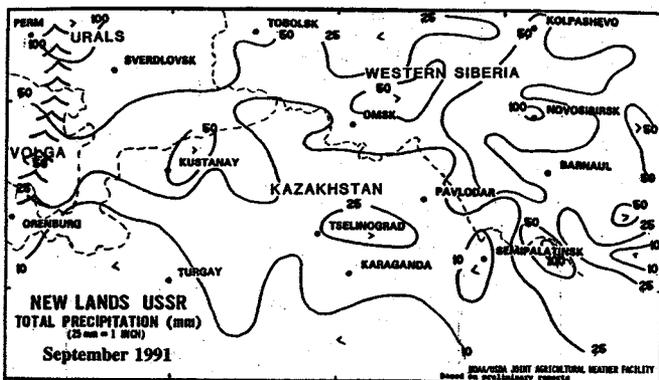
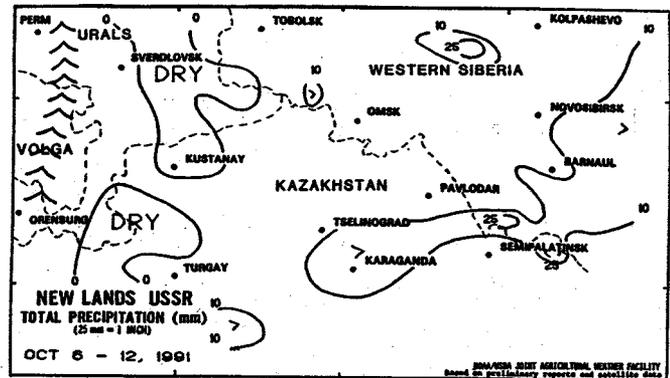




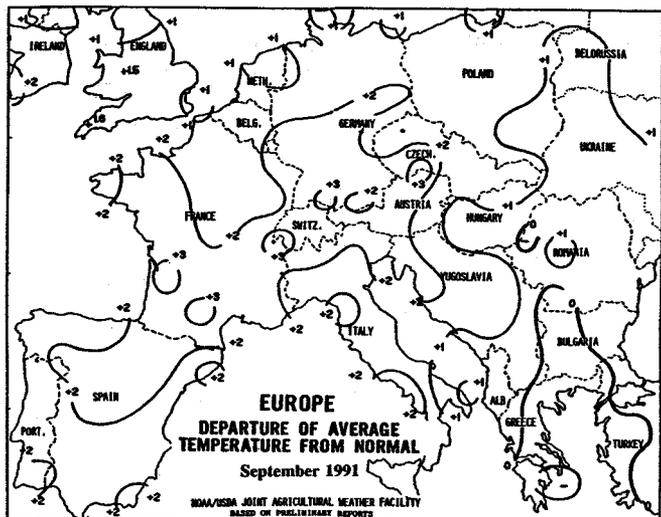
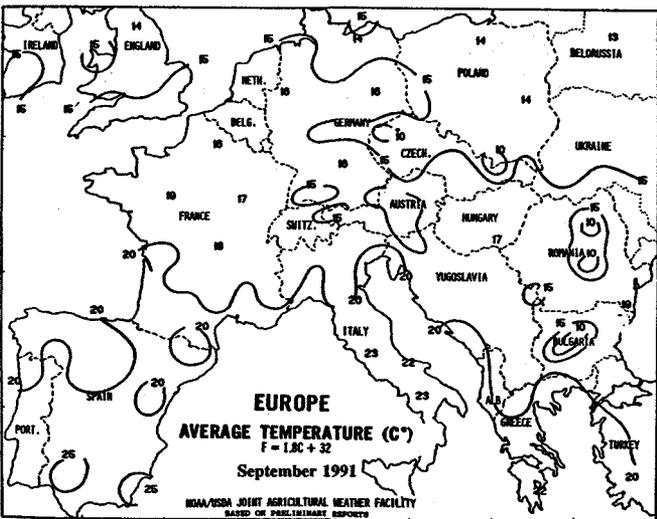
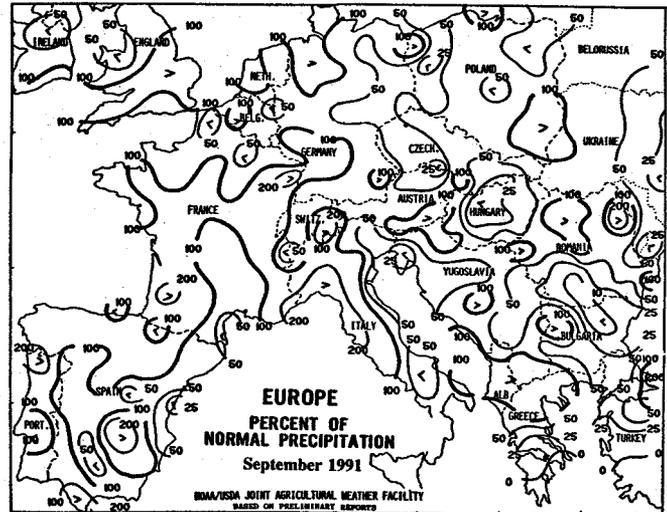
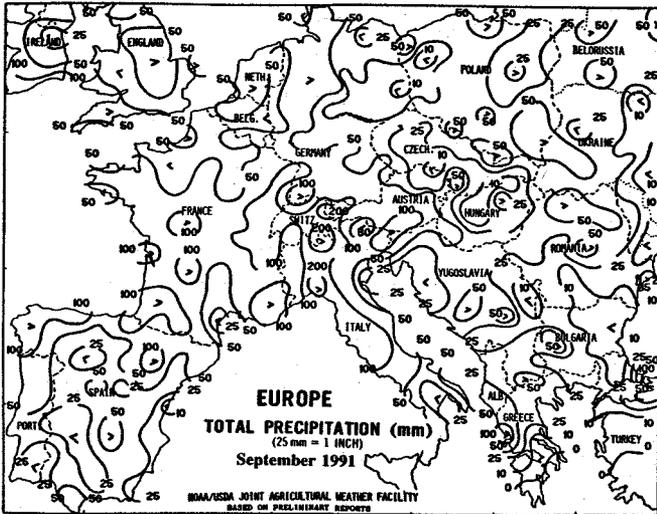
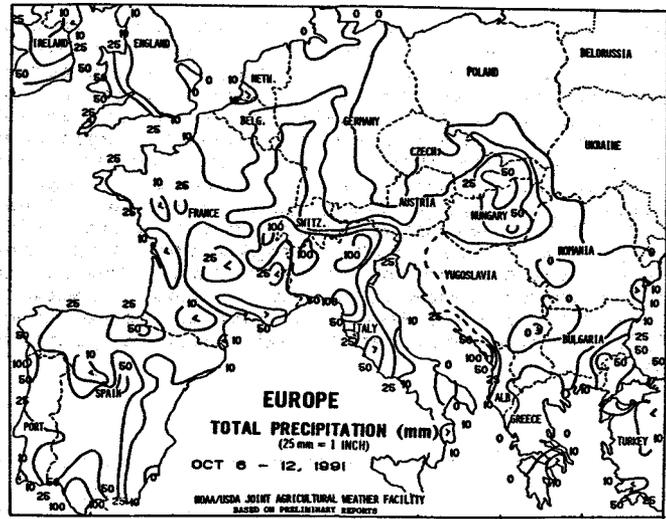
WESTERN USSR ... Unseasonably warm, dry weather covered most of the region, providing favorable conditions for potato, sugarbeet, sunflower, and corn harvesting. Weekly average temperatures, ranging from 8 to 10 degrees Celsius (C) across the north, allowed further growth in winter grains. Although weekly average temperatures ranging from 12 to 17 degrees C across the south spurred continued growth in winter wheat, insufficient moisture in parts of eastern Ukraine, northern North Caucasus, Black Soils Region, and lower Volga hampered plant establishment. In September, the corn harvest began while winter grain planting continued to advance southward. Frequent showers over Belorussia, Central Region, and Volga Vyatsk benefited winter grain establishment. Well below-normal rainfall over Moldova, the eastern two-thirds of the Ukraine, Black Soils Region, northern North Caucasus, and lower Volga was accompanied by above-normal temperatures, favoring harvest work and winter grain planting. However, September's dry weather pattern in the areas lowered topsoil moisture needed for winter grain establishment.

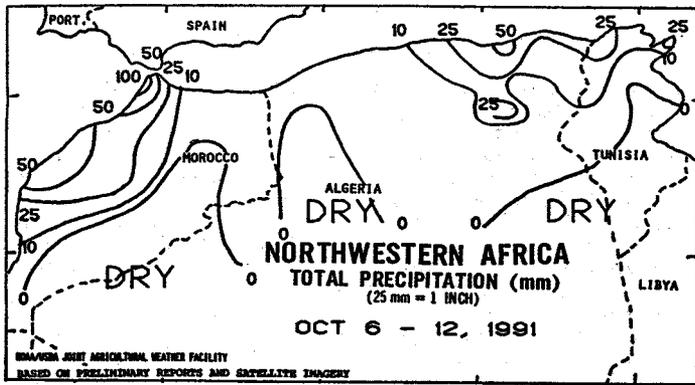


NEW LANDS ... Little, if any, precipitation allowed final harvesting. In September, intermittent showers produced above-normal precipitation over the Urals, Western Siberia, and northern Kazakhstan, slowing spring grain harvest activities. To summarize the season, in April and May, the combination of dry weather and unseasonably warm weather depleted topsoil moisture, delaying spring grain planting. These unfavorable weather conditions continued until mid-July when widespread precipitation stabilized conditions for drought-stressed crops. The spring grain harvest began at the end of August, somewhat later than usual. Weekly coverage of the New Lands will be suspended until next spring's planting season.

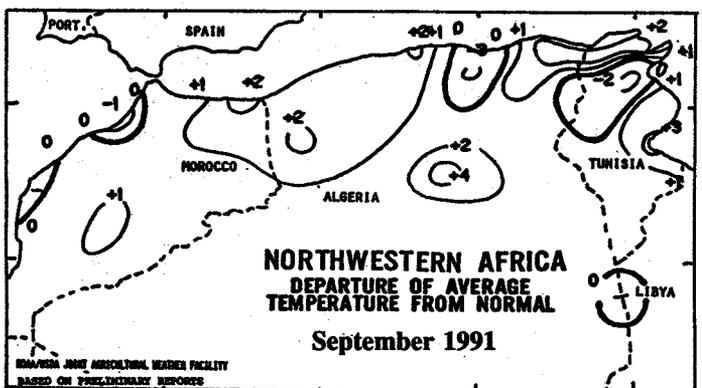
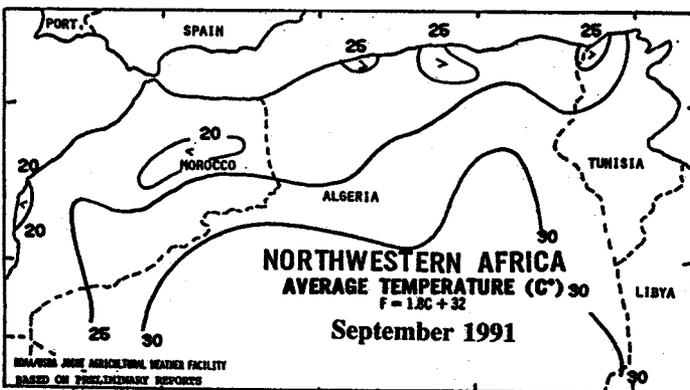
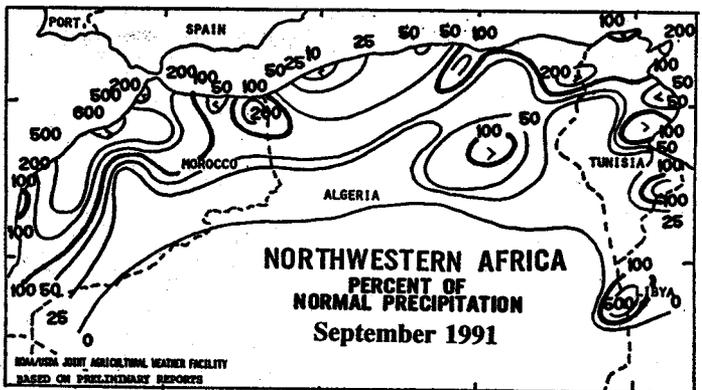
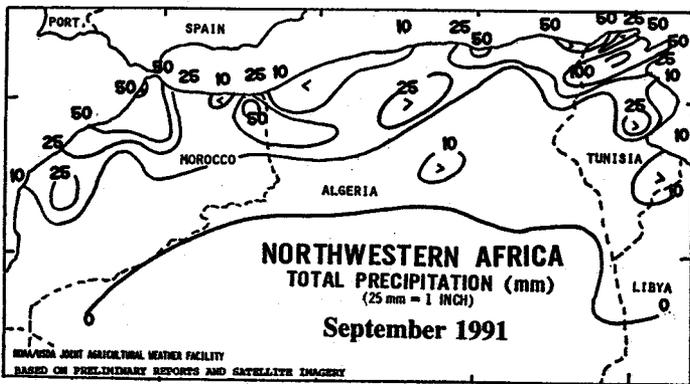


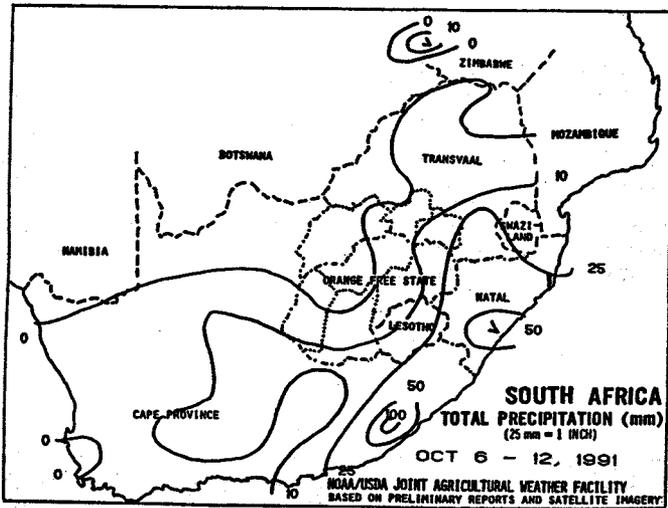
EUROPE ... Heavy rain (50-138mm) soaked northern Italy, halting fieldwork. Persistent showers from southwestern England to Spain also slowed harvesting of corn and sugarbeets, and winter grain planting. Topsoil moisture is adequate for winter crop establishment from England, through France, to the Iberian peninsula, following early October showers and generally near- to above-average September rainfall. In Italy's Po Valley, above-average rainfall in September preceded the early-October storms, likely causing extensive fieldwork delays. In contrast, weekly rainfall was light (less than 8mm) from eastern England, across the Benelux countries to Germany, and much of eastern Europe, allowing sugarbeet harvesting and winter crop planting to advance rapidly. Dry weather prevailed in Poland, northern Czechoslovakia, and eastern Germany, where a drying trend was notable in September. Beneficial rain for winter grain establishment fell this week in Hungary. September rainfall was highly variable in the southeast, with recent dry weather favoring corn harvesting in Romania.



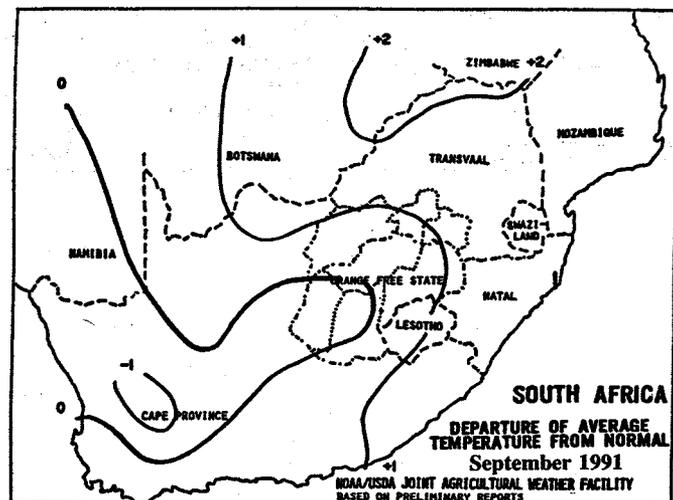
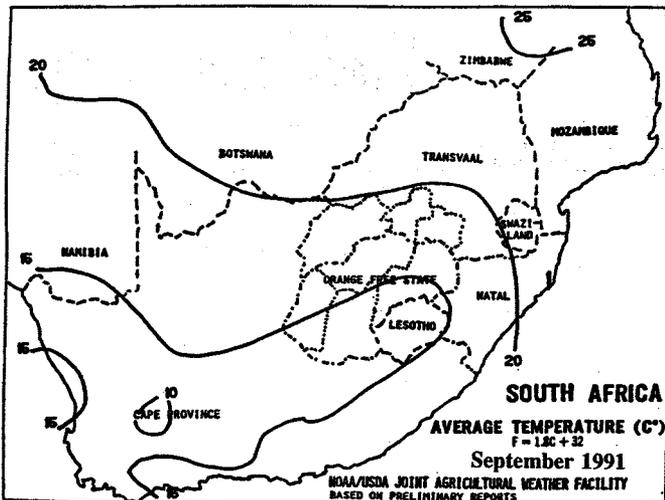
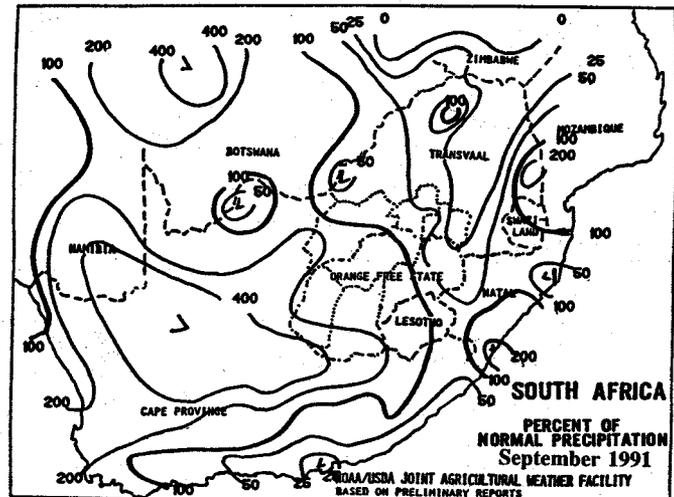
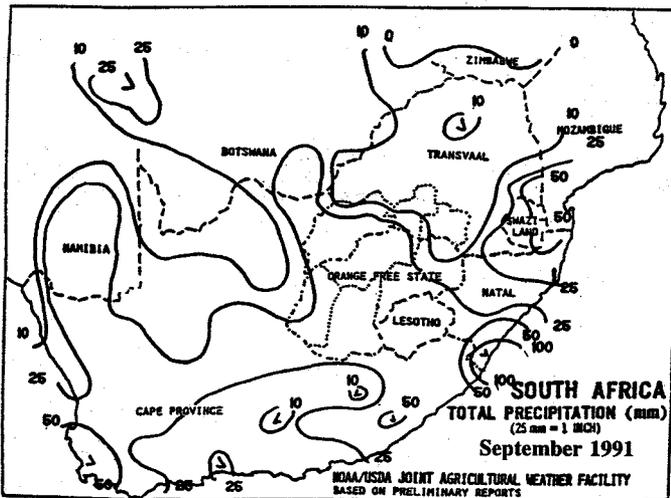


NORTHWESTERN AFRICA ... Soaking rain (25-70mm) fell over Moroccan winter grain areas, while crop areas in Algeria and Tunisia received lighter rainfall (around 10mm). Winter grain planting normally begins in November, when the autumn rains become more consistent. Above-normal rainfall during September in Morocco, eastern Algeria, and Tunisia increased pre-planting moisture. Planting could begin in the next couple of weeks if the current rainy pattern continues.

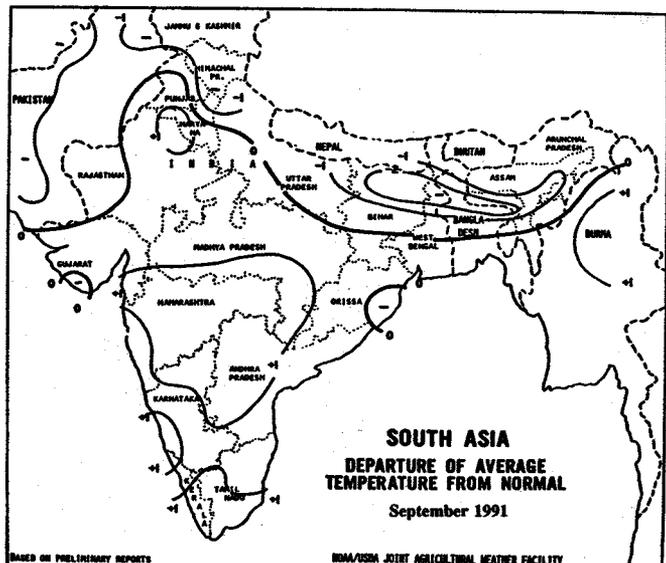
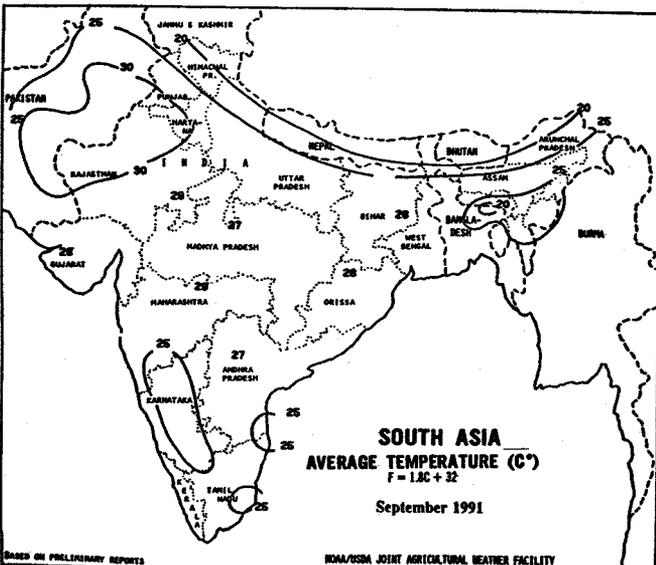
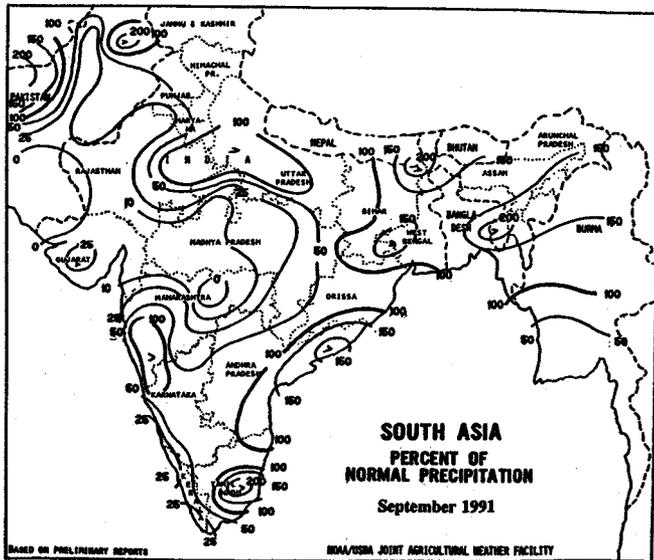
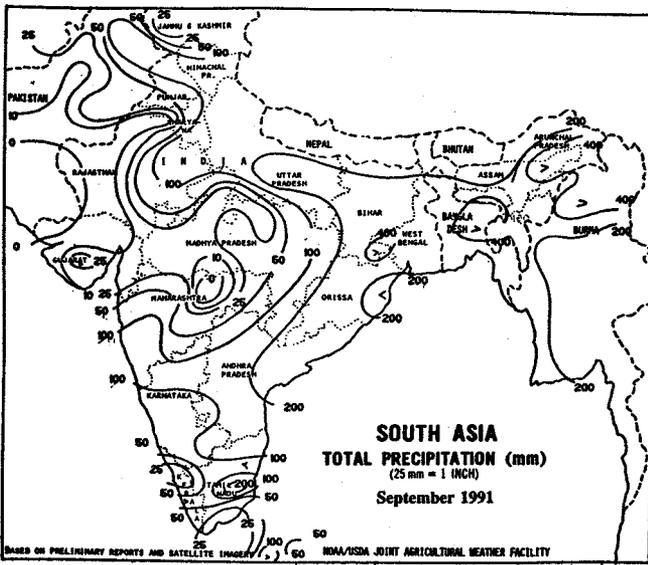
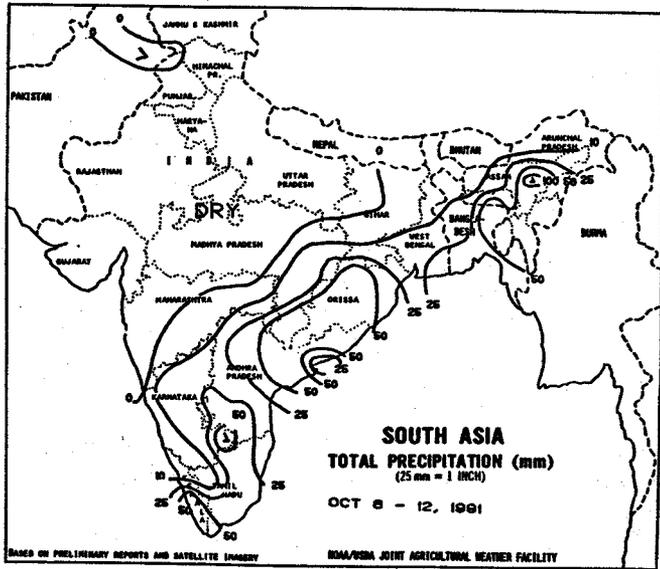


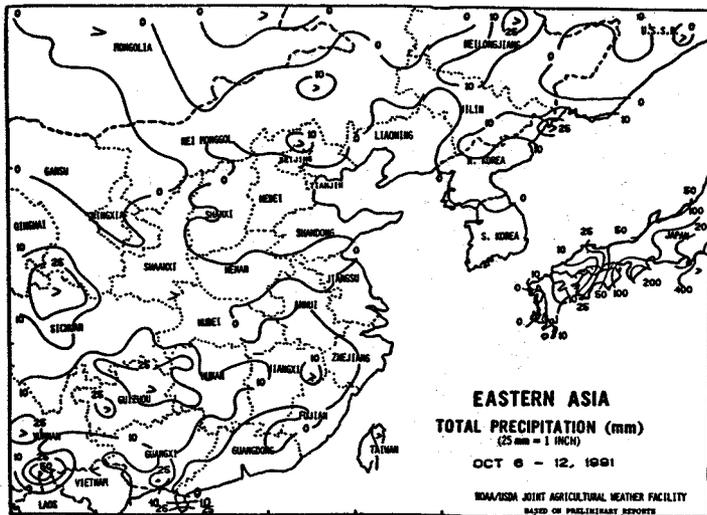


SOUTH AFRICA ... Light to moderate rain (5-27mm) improved local corn planting conditions in south-central Transvaal and the eastern Orange Free State, an area comprising the eastern section of South Africa's Maize Triangle. Primary corn areas further west were dry. Heavier rain (25-60mm) benefited crop areas of Natal and the eastern Cape Province. In September, rainfall totaled 25-50mm in southwestern Transvaal and all but the eastern tip of the Orange Free State, improving moisture reserves, especially for immature winter wheat. Drier-than-normal weather dominated most other Transvaal corn areas, but further south, beneficial rainfall covered local crop areas of the Cape Province and Natal, including much of the sugarcane area.

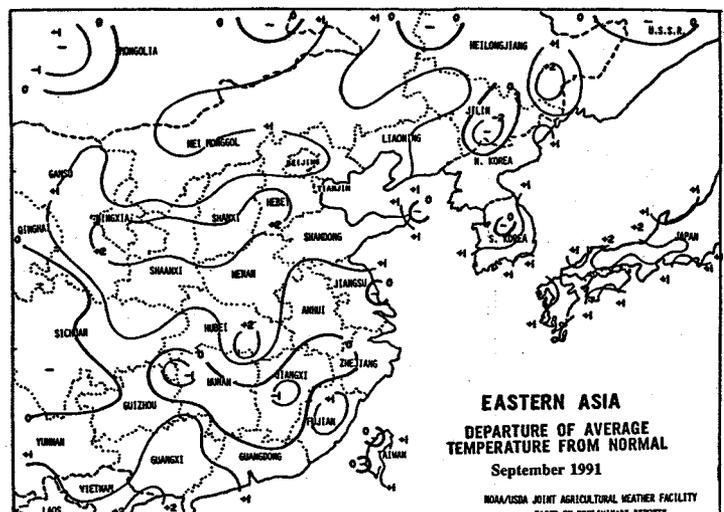
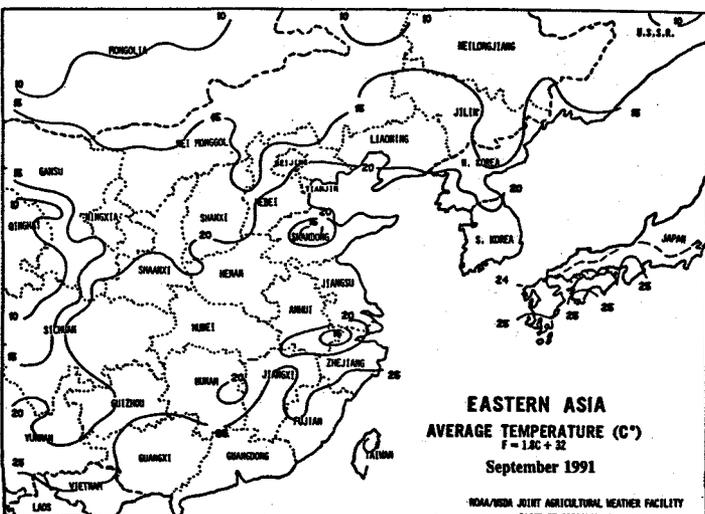
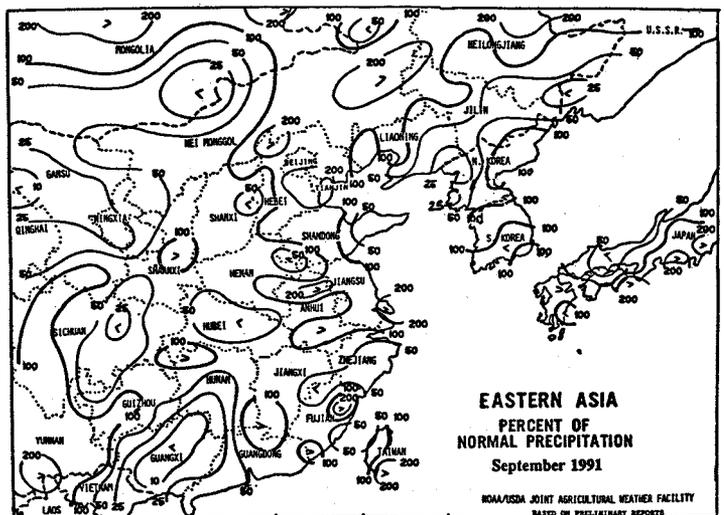
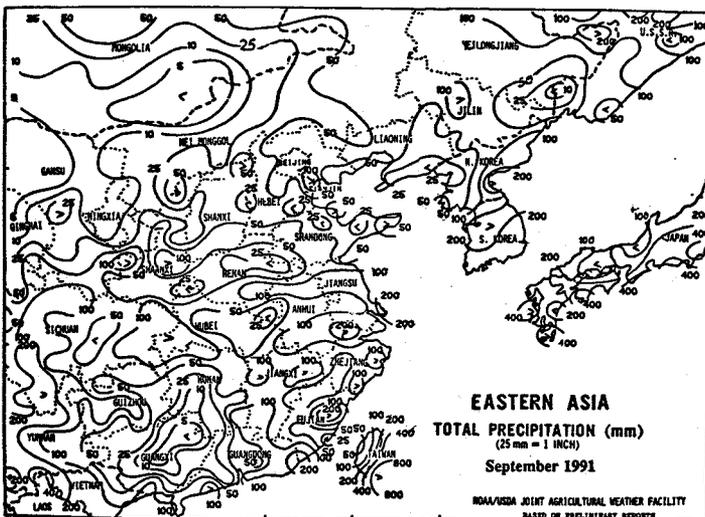


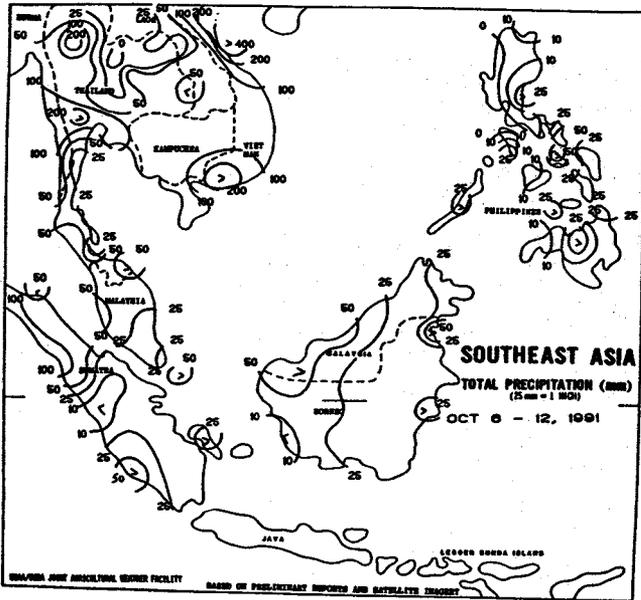
SOUTH ASIA ... Beneficial showers (10-50mm or more) continued over India's southern interior and in primary rice areas from northern Andhra Pradesh to Assam. Frequent, near- to above-normal rainfall in these areas since early September has improved fall planting prospects and boosted irrigation reserves for dry season grains and oilseeds. In contrast, dry, warm weather in northwestern and central India favored maturing summer crops and field preparation for winter wheat planting. During September, the monsoon began its seasonal withdrawal from northern Pakistan and India. Monsoon showers departed primary oilseed areas of Rajasthan, Gujarat, and Madhya Pradesh somewhat earlier than normal, adding further stress to late-planted crops. However, near- to above-normal rainfall in winter grain and oilseed areas of Pakistan and across northern India boosted reservoirs for upcoming plantings.



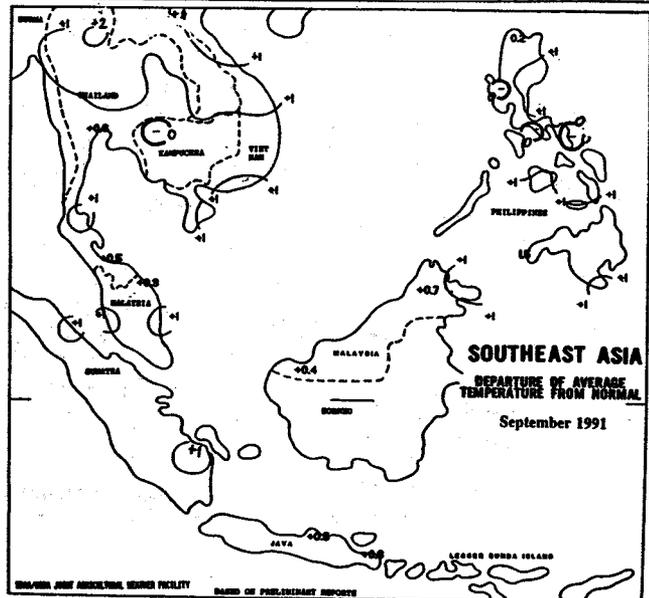
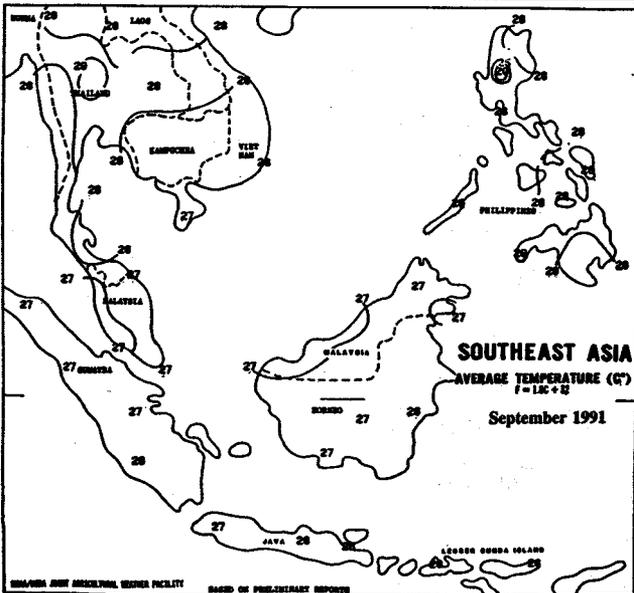
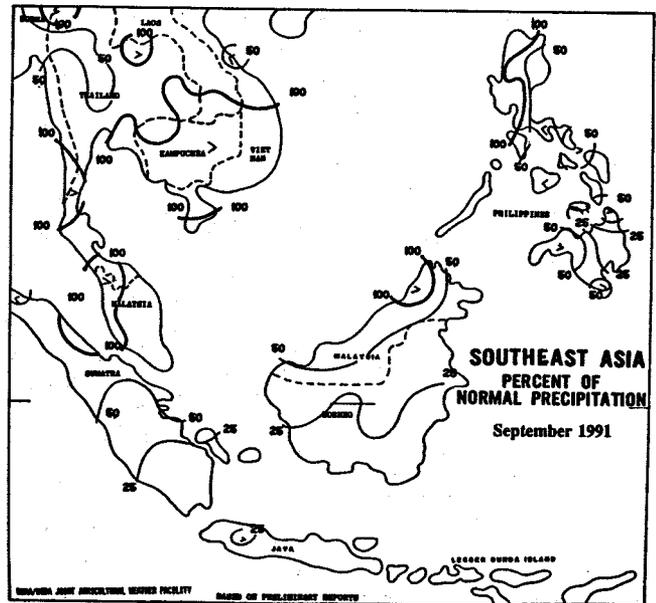
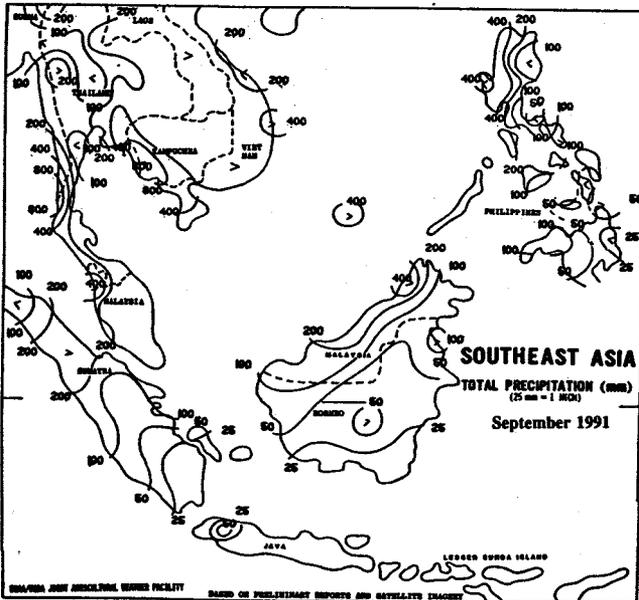


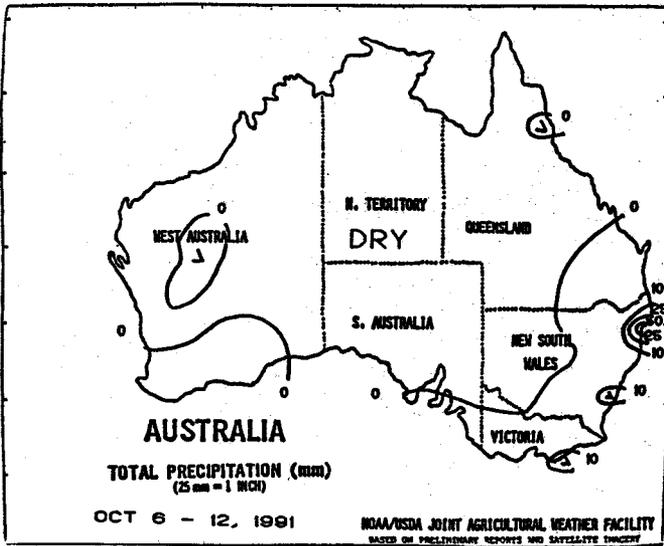
EASTERN ASIA ... Typhoon Orchid brushed southeastern Japan, with inundating rains (100-200mm and coastal amounts over 400mm) causing additional flooding problems and rice harvesting delays. In China, scattered light rains (3-13mm) caused only minor harvest delays in Manchuria and the North China Plain. However, rain is needed for adequate winter wheat germination in the southern North China Plain (southern Shandong, Jiangsu, and Anhui). Dry weather continues to favor rice maturation across the lower Yangtze Valley and southeastern China. Light to moderate rains (14-37mm) fell across Guangxi and Guizhou, alleviating recent dry conditions and elevating reservoir levels. For September, rainfall averaged near to above normal from western Manchuria southward into the North China Plain and lower Yangtze Valley. While the rains caused harvest delays, rainfall was well spaced for harvesting at a normal pace. Elsewhere below-normal rainfall aided rice maturation and summer crop harvesting, but portions of southwestern China (mainly Guangxi) received less than 25 percent of normal September rainfall, depleting reservoir levels for winter and next year's crops. Above-normal typhoon activity produced excessive rains across southern and eastern Japan, causing widespread flooding. Temperatures averaged 1-2 degrees C above normal across most of China.



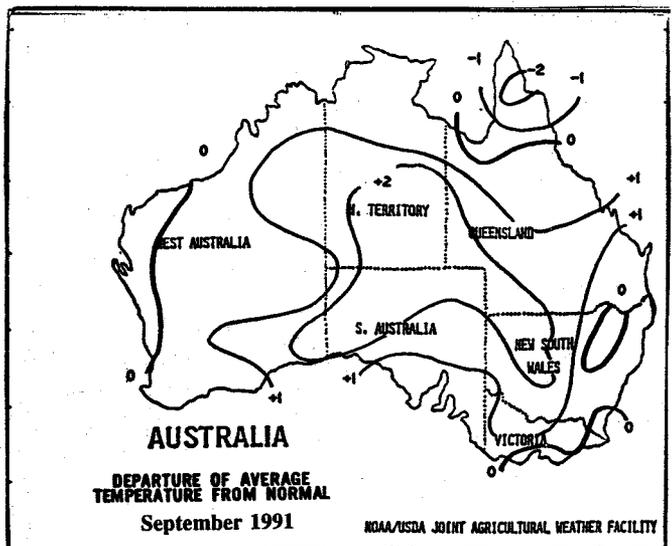
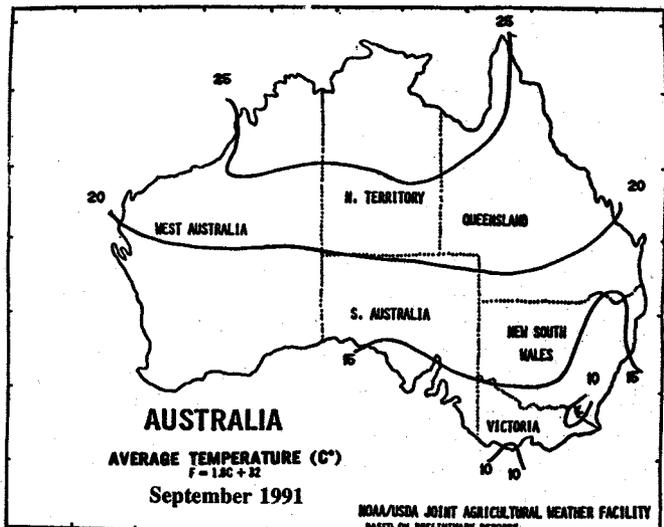
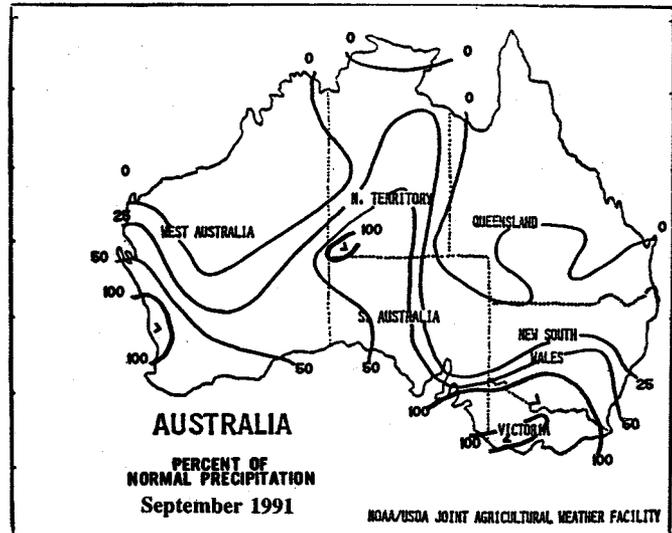
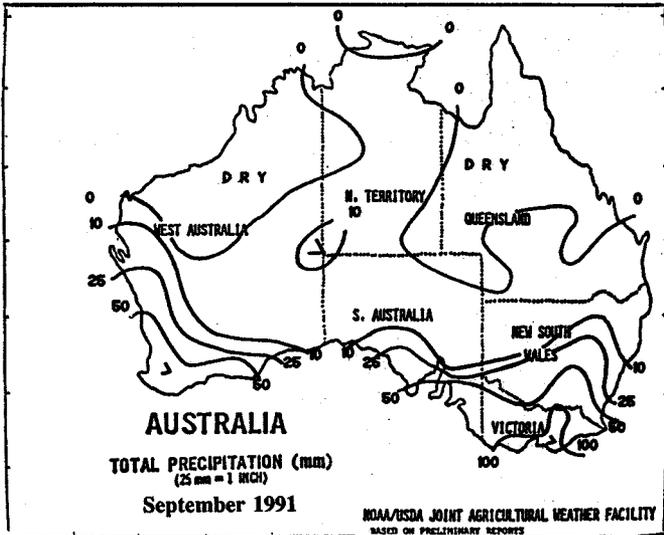


SOUTHEAST ASIA ... Locally heavy rain (100-264mm) caused more flooding along Vietnam's central coast, along the Mekong River from Laos southward, and in rice areas near Bangkok. Seasonable showers (25-50mm or more) fell elsewhere in Indochina, except northern crop areas of Thailand which received less than 25mm. September rainfall was above normal over most of Indochina, improving irrigation reserves for dry season rice, although drier-than-normal conditions dominated the upper Chao Phraya River system. Further south, beneficial rain (25-82mm) covered Malaysia's primary crop regions, but dry weather continued over Java, reflecting September's rainfall pattern. Java's rice planting normally begins in November, following the arrival of seasonable rains. In the Philippines, mostly dry weather dominated the islands, with amounts exceeding 25mm in only local areas. In September, continuing heavy rains exacerbated flooding along Luzon's west coast. Rainfall elsewhere was well below normal, reducing available moisture for fall grain planting and establishment.

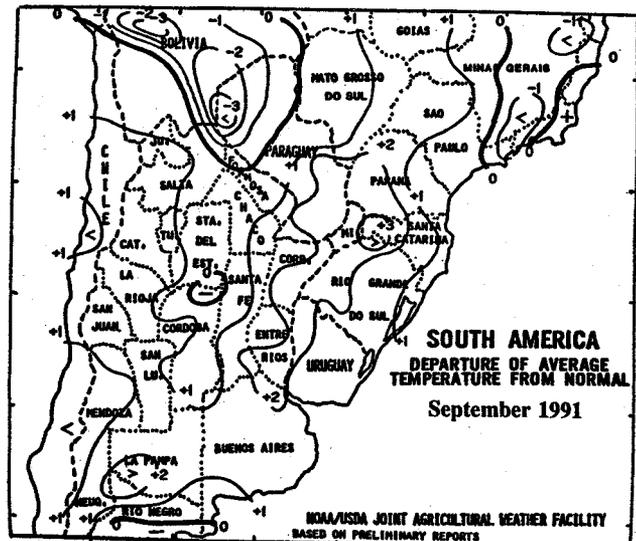
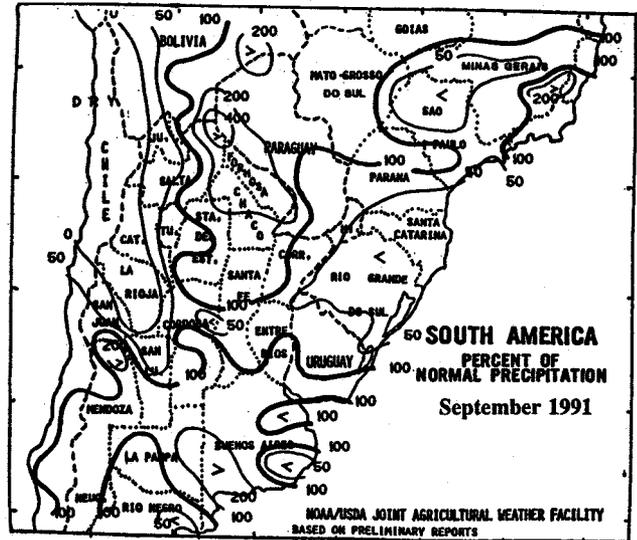
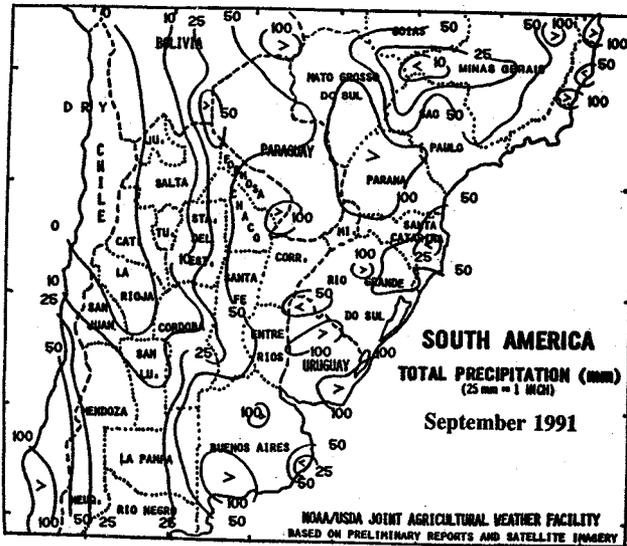
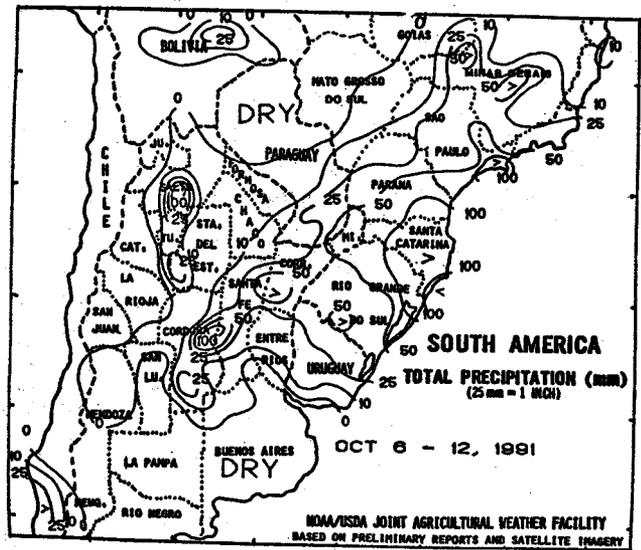


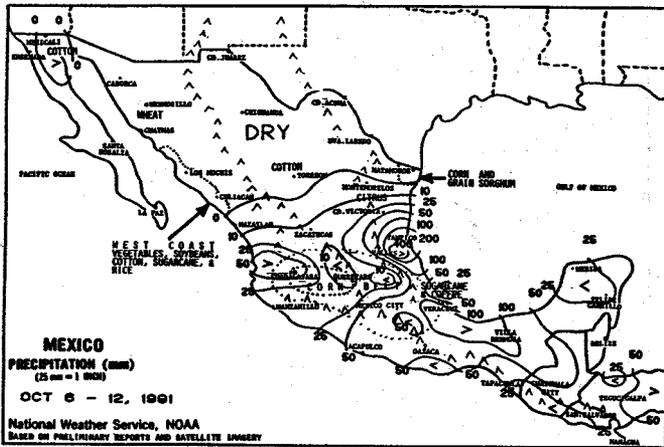


AUSTRALIA ... Only light rain (2-5mm) fell in southern Queensland and northern New South Wales further stressing winter wheat. Significant rains at this point can only stabilize crop conditions in the drought area. Also dryness along the northeastern Queensland coast is raising moisture concerns for sugarcane. While the main rainy season is still a few months away, these areas should be receiving light to moderate rain. Little or no rain fell in the rest of the winter grain areas as temperatures increased. Rain is needed especially in the west to prevent stress. Weekly temperatures averaged 2-4 degrees C above normal in the west and 1-3 degrees C in the east. During September, sparse rain (1-3mm) fell across southern Queensland and extreme northern New South Wales, stressing winter wheat as crop conditions worsened. Near-normal rainfall fell in southern New South Wales, Victoria, South Australia, and western West Australia, aiding winter wheat development. However, the interior crop areas of West Australia, received below-normal rainfall, where rains are needed for grain-filling wheat. Temperatures averaged near normal in most crop areas.

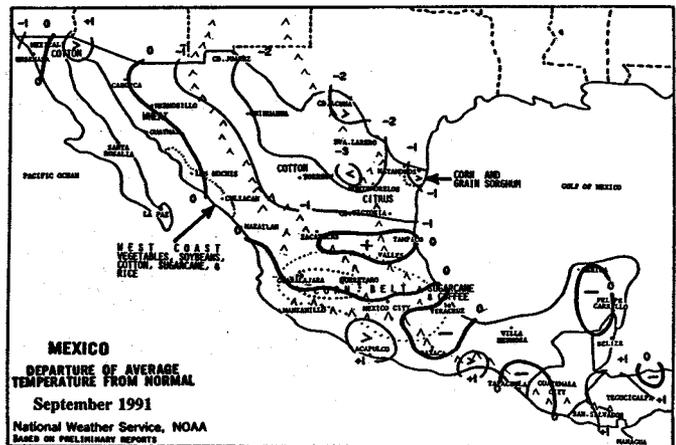
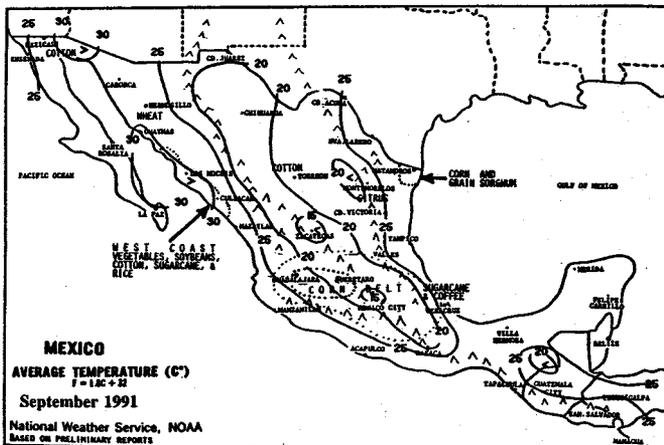
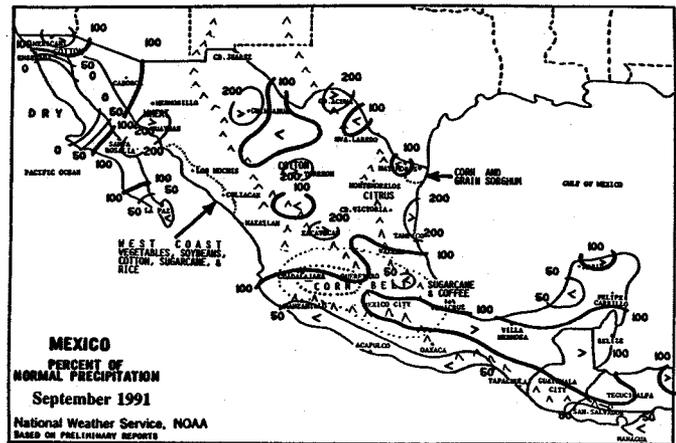
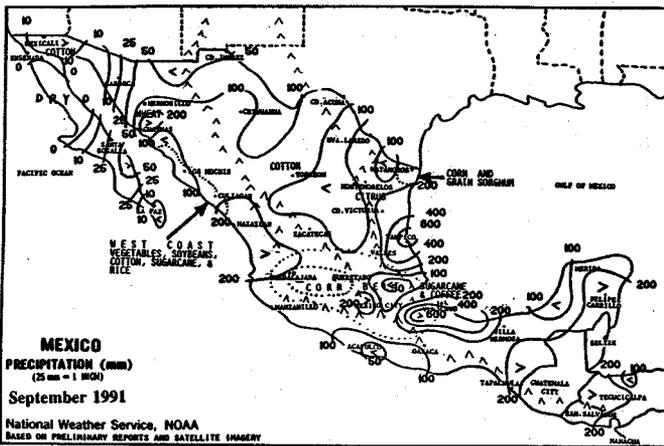


SOUTH AMERICA ... Widespread moderate to heavy rains covered a good portion of southern Brazil, erasing long-term dryness. The moisture favored corn development, coffee and citrus flowering, and soybean planting. In Argentina, beneficial light to moderate rains fell across Santa Fe, Entre Rios, and Cordoba, which aided developing winter wheat, linseed germination, and moisture for soybean planting. However, dry weather returned to most of Buenos Aires, where moisture is needed to prevent stress to winter wheat. Earlier in the week, minimum temperatures of -1 to -3 degrees C were again reported in central and southern Buenos Aires, stressing and slowing development of winter wheat. In September, rainfall averaged near to above normal throughout the major crop areas of Argentina. In Brazil, Rio Grande do Sul, Santa Catarina, southern Parana, and the coffee and citrus regions of Sao Paulo and eastern Minas Gerais experienced below-normal rainfall, while elsewhere near- to above-normal rainfall occurred. Temperatures averaged 1-3 degrees above normal from central Argentina into southern Brazil.

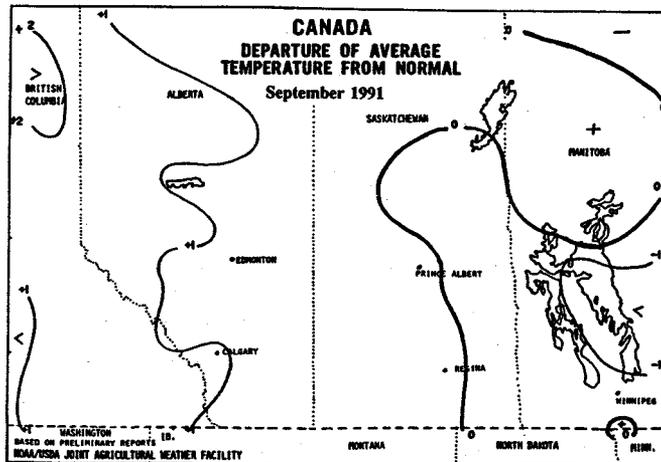
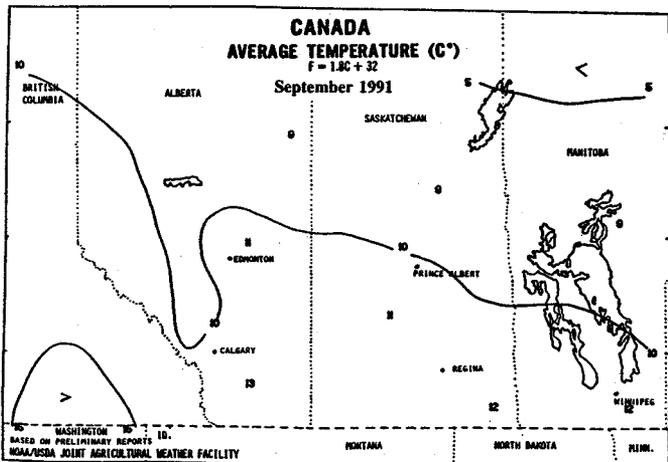
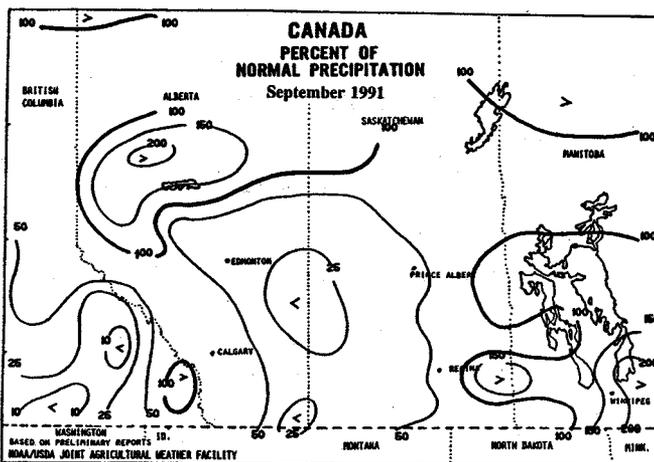
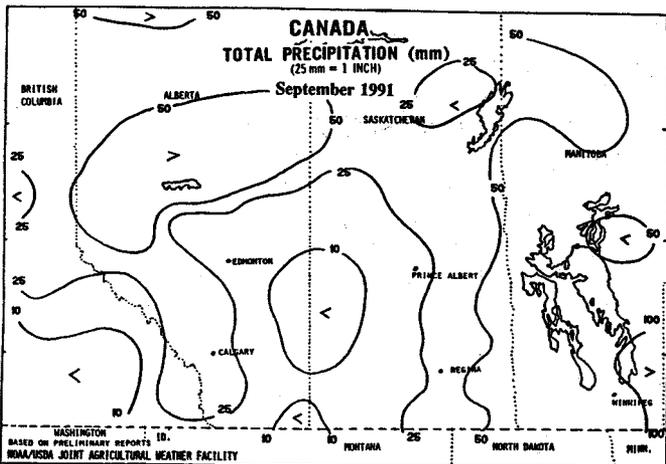
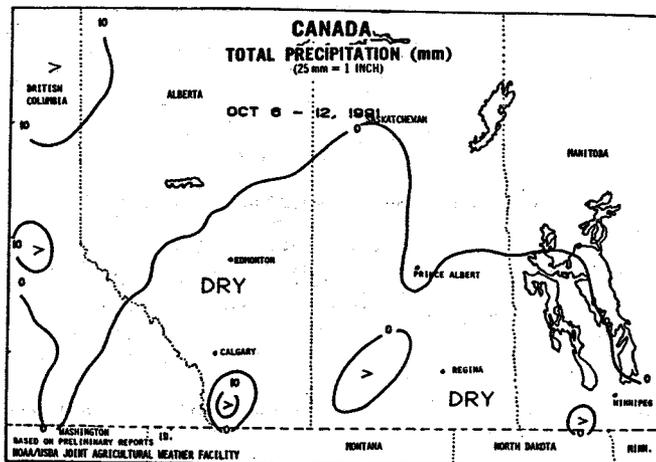




MEXICO ... Scattered moderate to heavy rain (28-73 mm) fell across the Southern Plateau corn belt, delaying corn harvesting. Torrential rains (over 350mm) fell along the east coast near Tampico, causing flooding. Heavy rains (45-145mm) covered extreme eastern Mexico (portions of Oaxaca, Chipas, and Campeche) favoring reproductive to grain-filling corn. Dry weather aided winter wheat planting in the northwest. In September, normal-to above-normal rains covered the northern half of the country, increasing reservoir levels for winter crops. Portions of the Southern Plateau corn belt received below-normal rainfall, aiding summer crop harvesting.



CANADA ... Dry, warm weather favored final grain and oilseed harvests across the Prairies. In September, mostly dry, warm weather in Alberta and western Saskatchewan aided grain and oilseed harvests, with only minor fieldwork delays. Further east, periodic wet weather caused some harvest delays but improved soil moisture for winter crop establishment. This is the final summary of the season. Coverage will resume next spring as grain and oilseed plantings begin.



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

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

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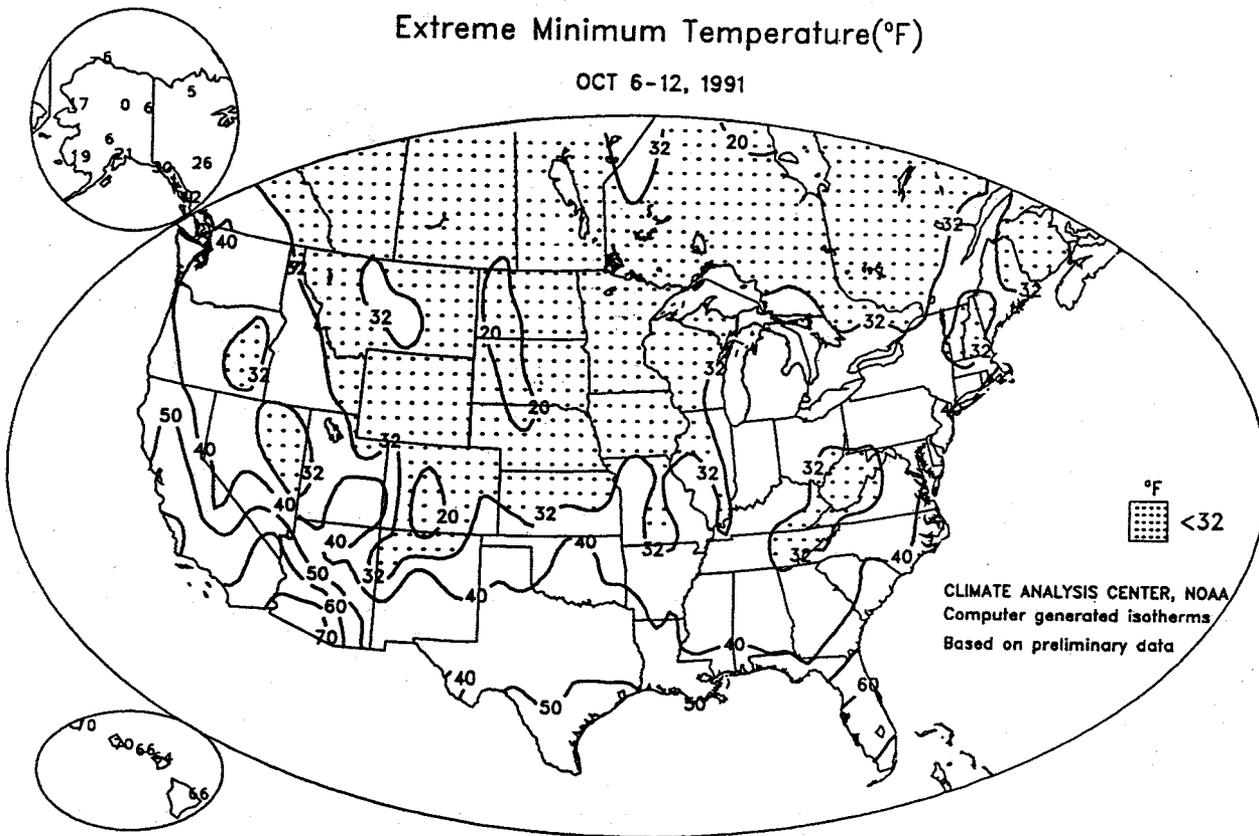
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OCT 6-12, 1991



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ISSN 0043 1974

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