

# WEEKLY WEATHER AND CROP BULLETIN

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

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

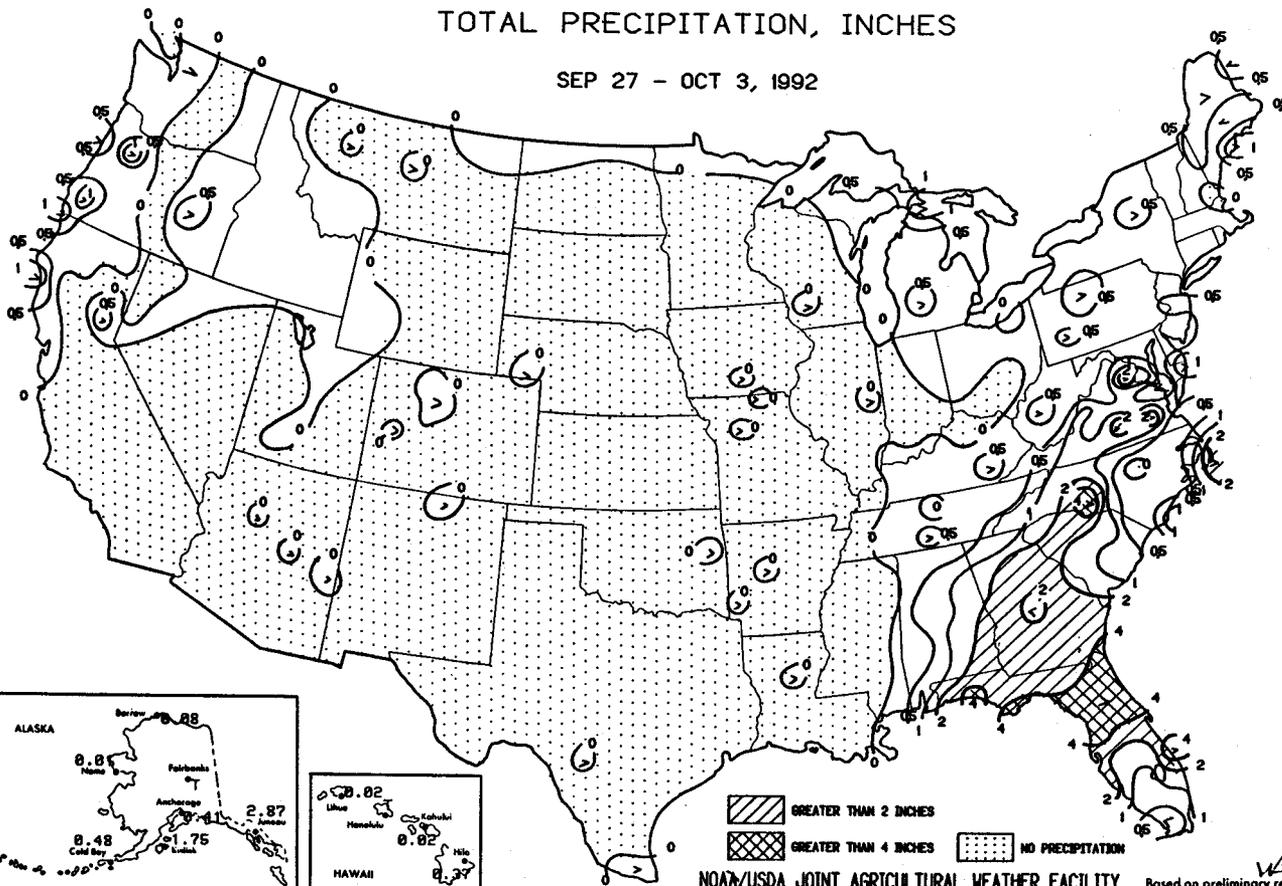
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October 6, 1992

## TOTAL PRECIPITATION, INCHES

SEP 27 - OCT 3, 1992



NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY Based on preliminary reports

## HIGHLIGHTS

### September 27 - October 3, 1992

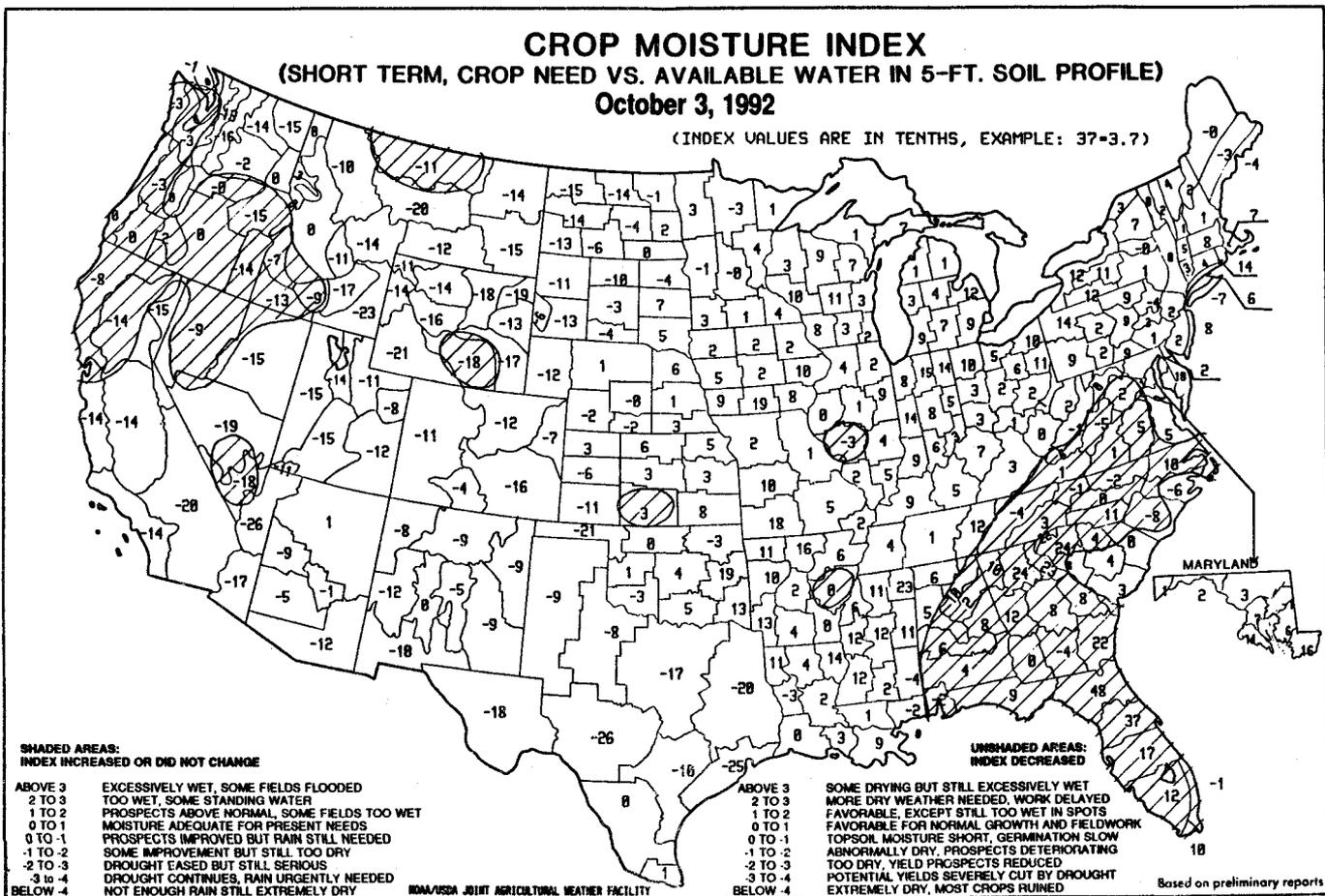
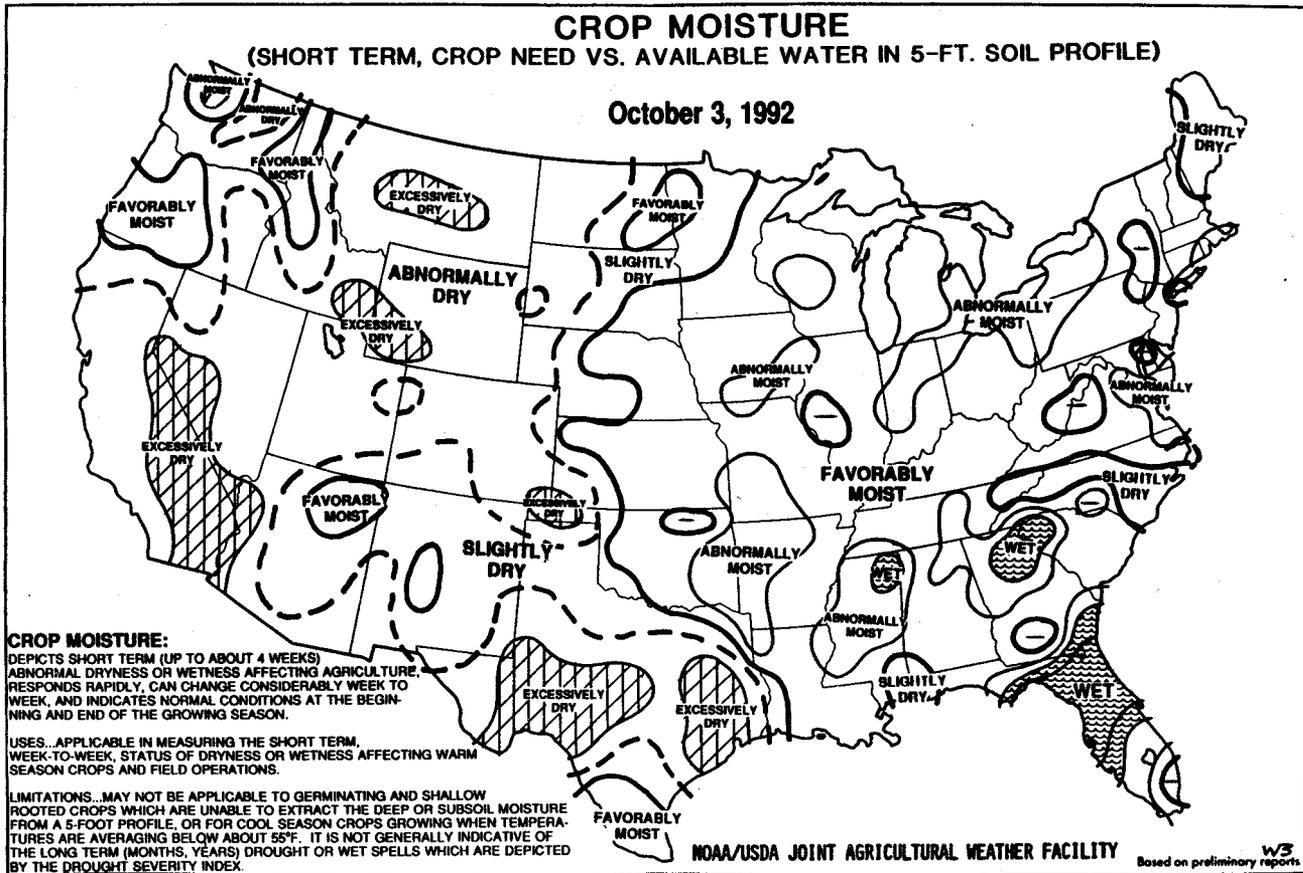
A freeze struck parts of the northern Corn Belt on September 28 and 29. Favorable harvest weather prevailed elsewhere except in the Southeast, where a variety of stormy weather transpired. Early in the week, cold air nosed into the Midwest, pushing a cold front to the east coast. Rainfall was locally heavy in North Carolina, with amounts reaching 4.56 inches in Charlotte and 3.62 inches on Cape Hatteras. Meanwhile, a tropical depression, packing 35 mph winds, moved to within 100 miles of Daytona Beach, FL, and stalled, causing coastal flooding and beach erosion in northeastern Florida. Though the depression was upgraded to tropical storm status and named "Earl" on Tuesday, it had already turned eastward, away from land. In the eastern Dakotas, temperatures fell into the upper 20's on Monday morning, causing some damage to immature corn, sorghum, and soybeans. A day later, temperatures fell into the 20's in the northern corn-growing areas of Minnesota and Wisconsin. St. Cloud, MN, reported 22°F. In addition,

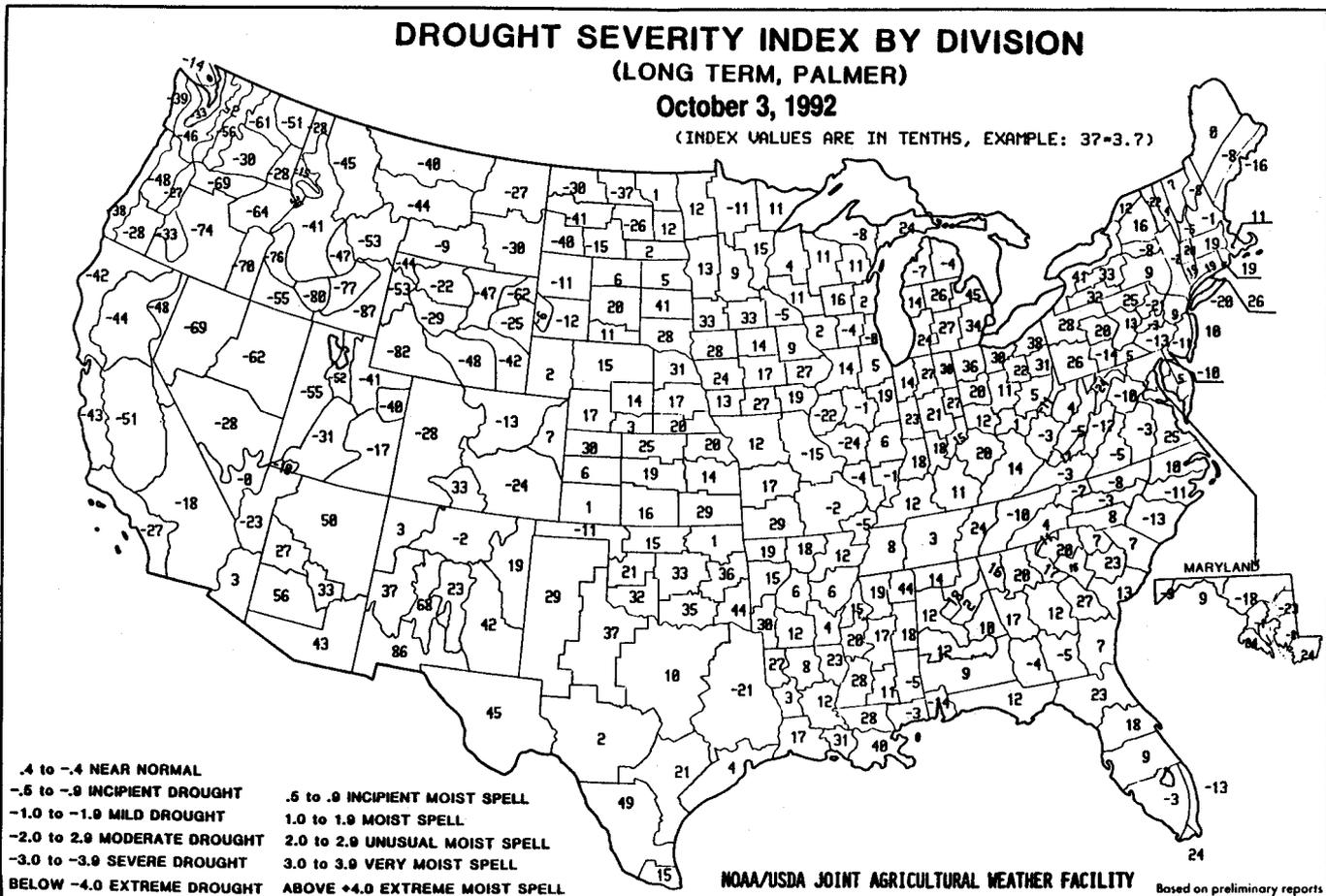
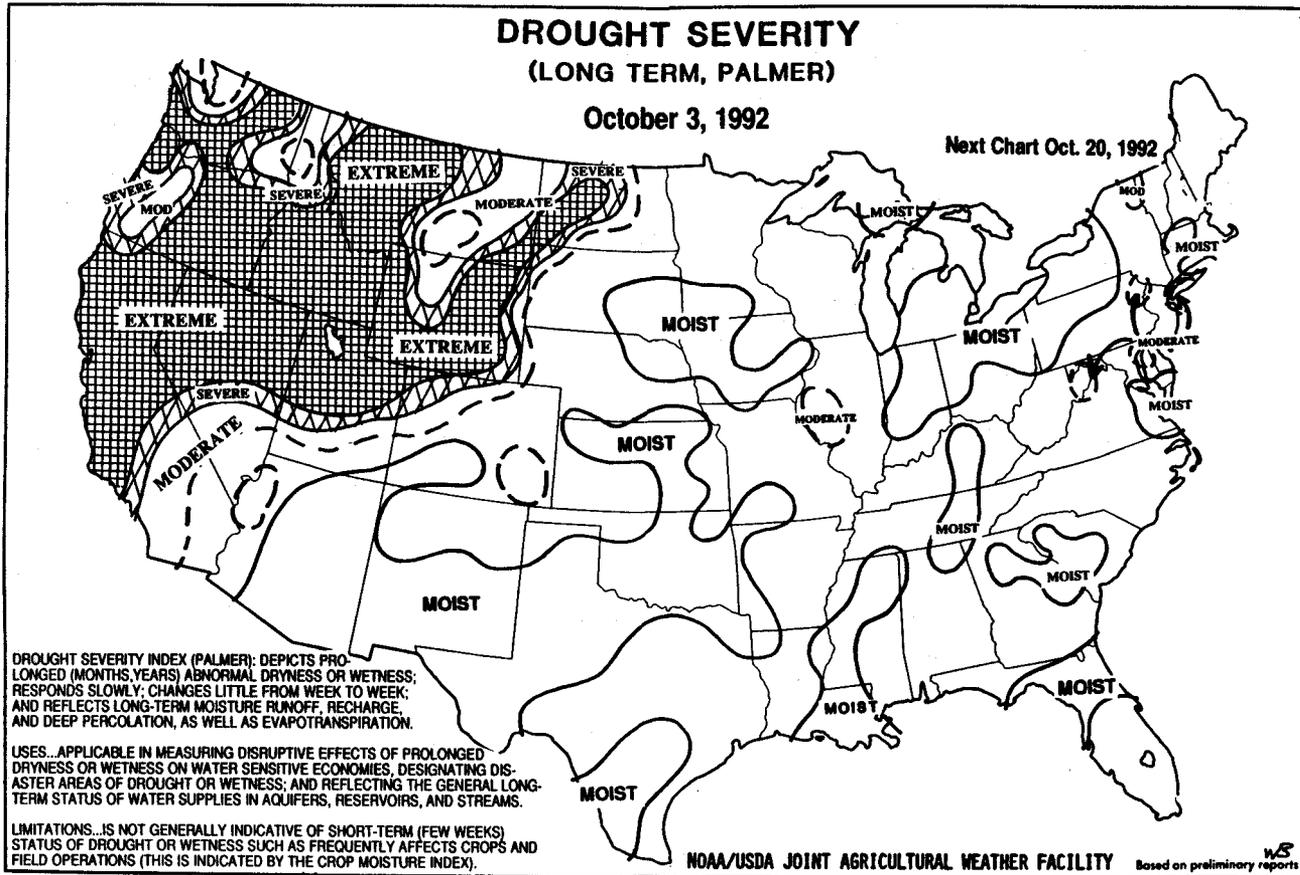
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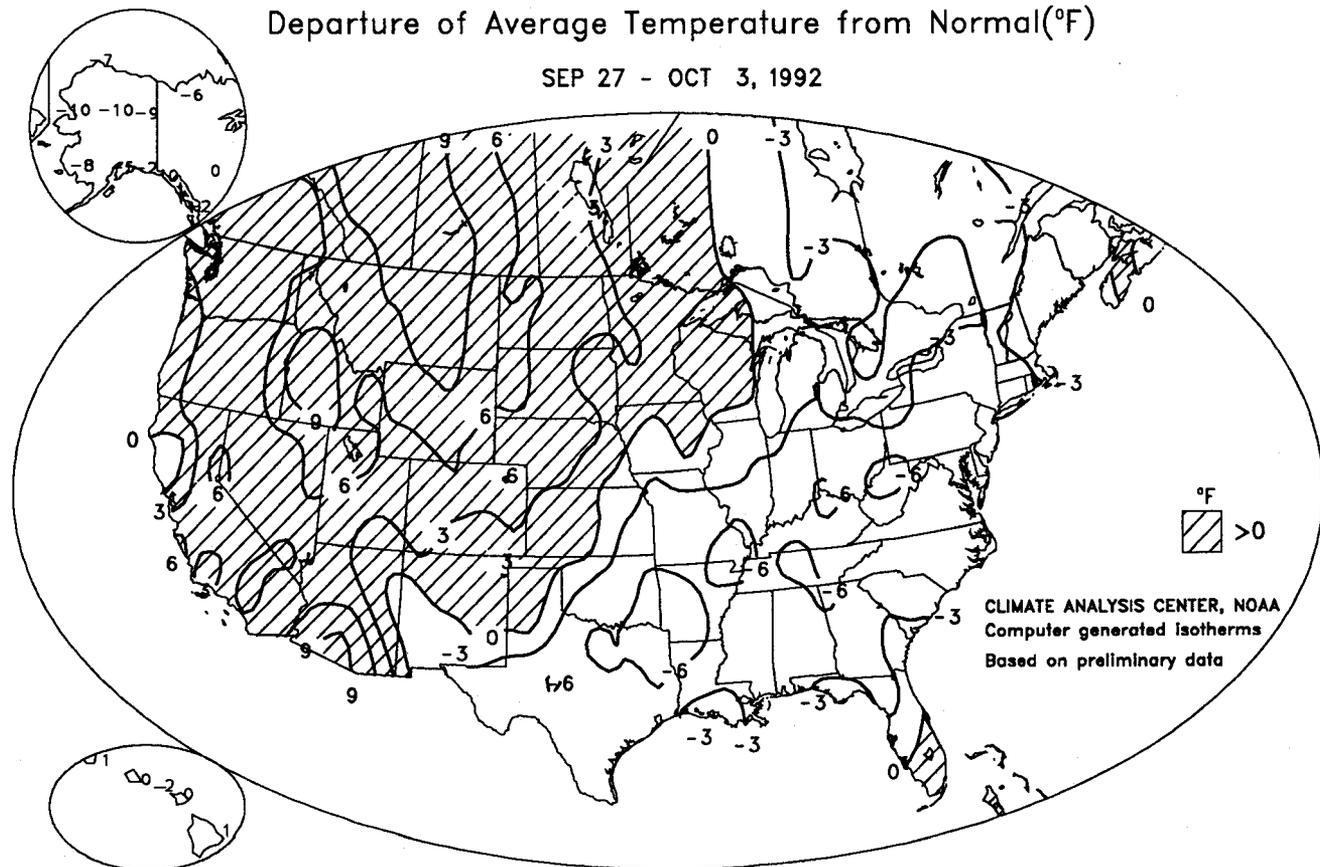
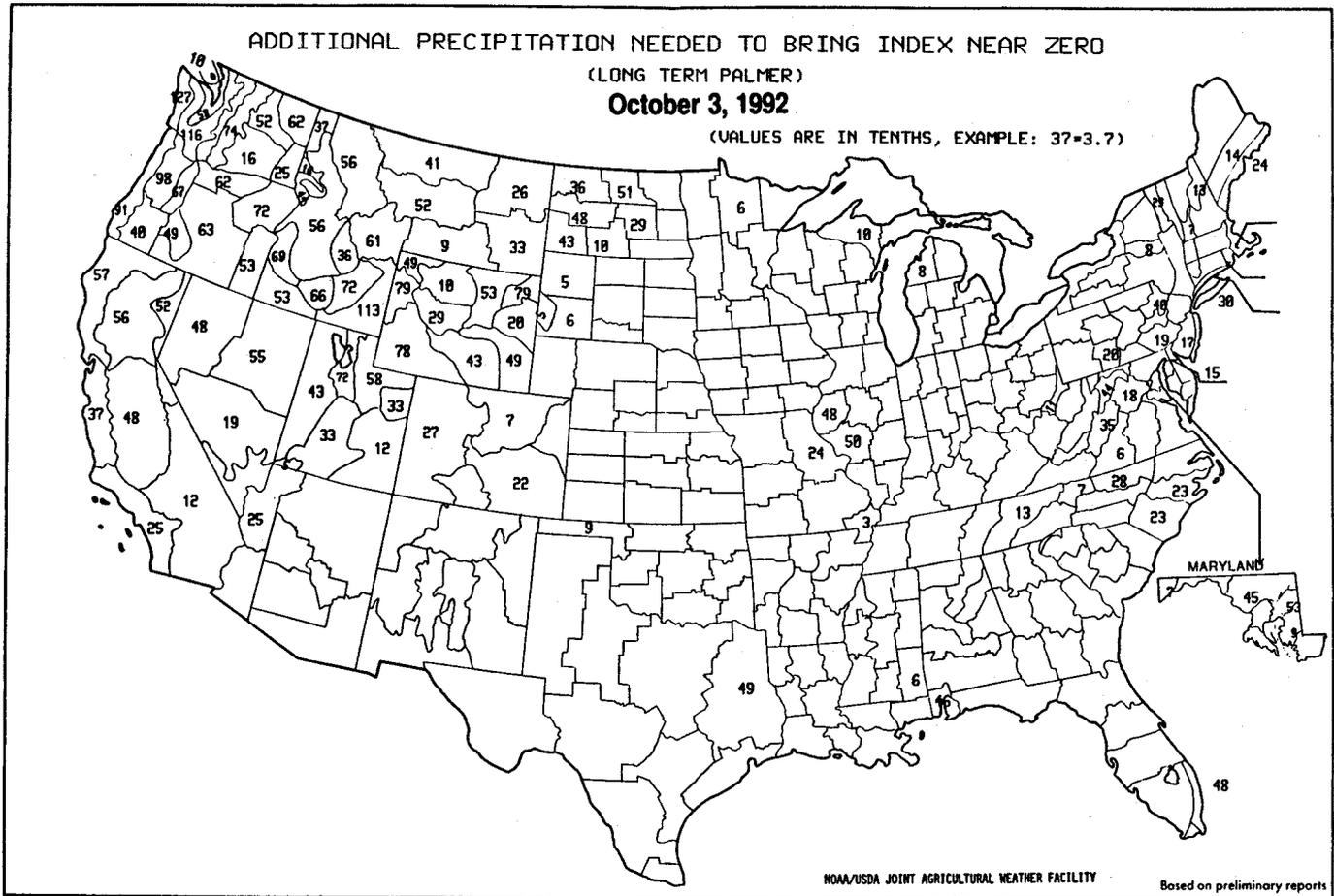
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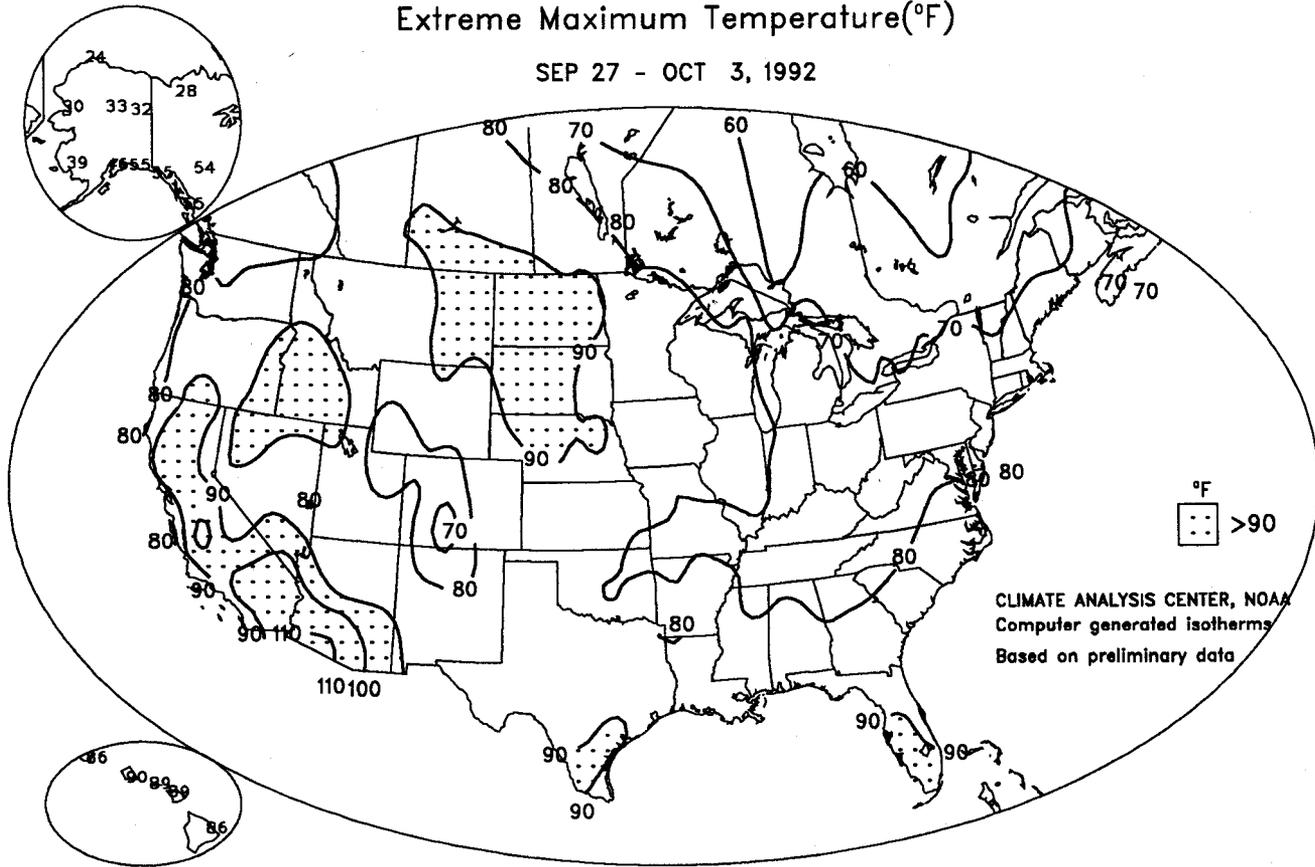






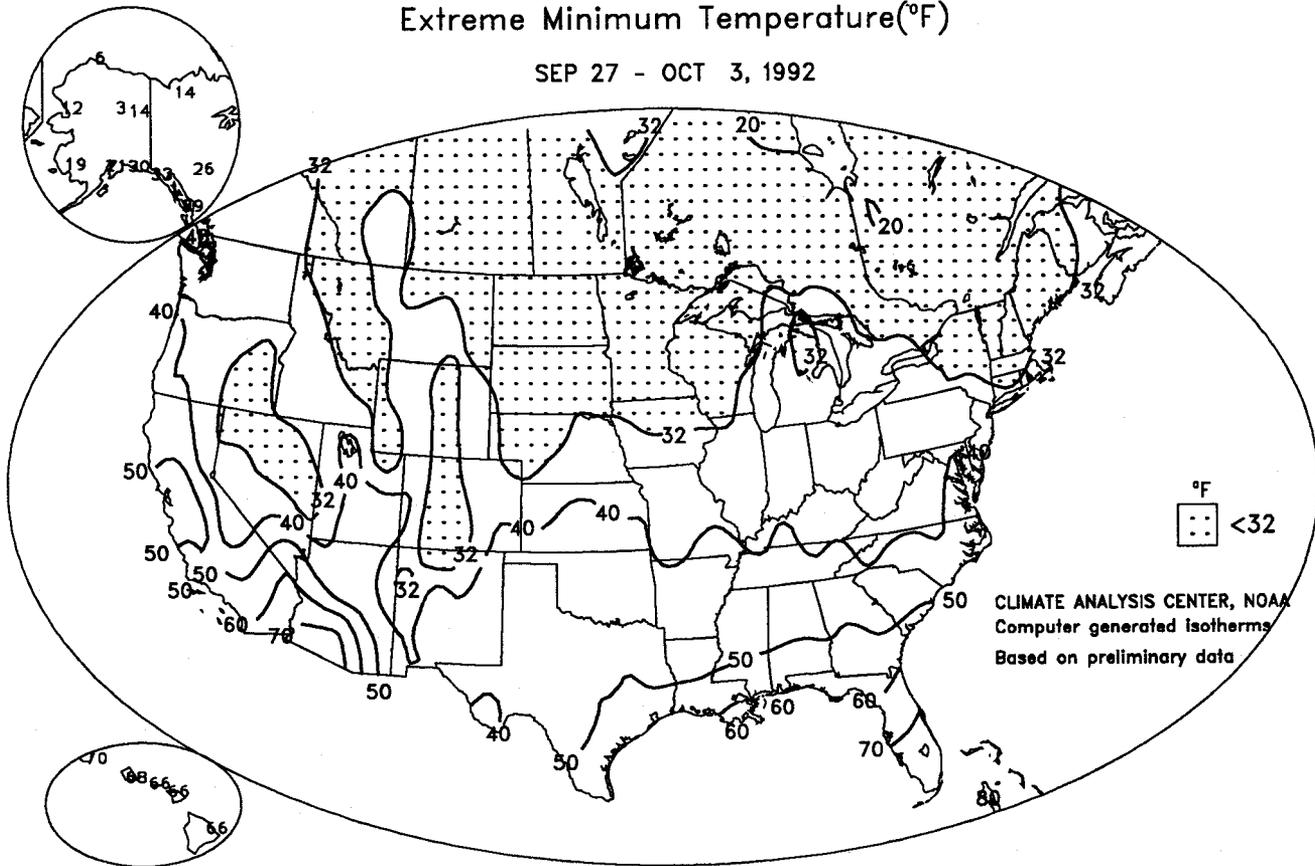
Extreme Maximum Temperature(°F)

SEP 27 - OCT 3, 1992



Extreme Minimum Temperature(°F)

SEP 27 - OCT 3, 1992



# National Weather Data for Selected Cities

Weather Data for the Week Ending **October 3, 1992**

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	
																		90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	76	53	83	45	65	-4	1.0	.2	.9	6.6	144	42.1	97	95	53	0	0	2	1		
MOBILE	75	62	83	55	69	-5	1.6	-.4	.6	3.9	57	52.1	98	91	66	0	0	2	1		
MONTGOMERY	77	58	85	49	67	-4	1.8	-.9	1.5	2.8	57	46.2	118	93	53	0	0	2	1		
AK ANCHORAGE	42	30	46	24	36	-6	4	-.1	.3	2.9	112	10.6	94	85	53	0	7	3	0		
BARROW	20	10	24	6	15	-8	1	-.1	.0	.5	79	2.1	58	91	78	0	7	3	0		
FAIRBANKS	32	14	39	3	23	-13	1	-.2	.0	1.4	116	9.7	117	82	54	0	7	3	0		
JUNEAU	49	44	53	40	47	1	3.7	2.0	.9	13.0	181	61.1	168	99	80	0	0	7	4		
KODIAK	51	38	56	35	44	0	1.8	.2	1.6	2.8	40	43.0	99	87	56	0	0	6	1		
NOME	32	18	35	13	25	-11	1	-.4	.0	1.8	72	9.0	76	78	47	0	7	1	0		
AZ PHOENIX	103	76	108	72	89	10	0	-.1	.0	1	4	10.9	214	29	10	7	0	0	0		
PRESCOTT	85	50	89	47	68	5	0	-.2	.0	2	17.5	167	51	15	0	0	0	0	0		
TUCSON	98	68	102	60	83	7	0	-.2	.0	.9	68	13.0	148	40	11	7	0	0	0		
YUMA	103	78	110	74	90	8	0	-.1	.0	0	3.5	204	38	14	6	0	0	0	0		
AR FORT SMITH	77	47	83	45	62	-6	0	-.7	.0	6.9	198	36.8	120	99	35	0	0	0	0		
LITTLE ROCK	76	52	80	48	64	-5	0	-.8	.0	3.0	67	35.2	93	72	38	0	0	0	0		
CA BAKERSFIELD	91	61	105	52	76	3	0	.0	.0	0	5.7	142	59	25	4	0	0	0	0		
EUREKA	66	51	80	47	58	3	.3	-.1	.2	.6	53	15.9	67	94	68	0	0	2	0		
FRESNO	91	60	102	53	76	3	0	-.1	.0	0	9.2	129	74	24	4	0	0	0	0		
LOS ANGELES	78	63	84	59	71	2	.0	.0	.0	0	11.9	140	94	56	0	0	0	0	0		
REDDING	86	53	98	45	70	-2	.3	.0	.3	.3	24	20.5	77	79	29	3	0	1	0		
SACRAMENTO	85	56	96	53	71	2	.0	-.1	.0	0	10.1	91	86	33	3	0	0	0	0		
SAN DIEGO	81	65	87	63	73	4	0	.0	.0	0	10.0	155	92	47	0	0	0	0	0		
SAN FRANCISCO	75	56	84	52	66	3	.0	-.1	.0	0	4	13.4	106	93	49	0	0	1	0		
CO DENVER	83	43	86	39	63	5	0	-.2	.0	1	13.1	101	61	12	0	0	0	0	0		
GRAND JUNCTION	83	48	84	43	66	4	0	-.2	.0	.3	41	6.6	111	39	13	0	0	0	0		
PUEBLO	83	37	87	33	60	0	0	-.2	.0	.7	80	10.1	108	68	13	0	0	0	0		
CT BRIDGEPORT	66	49	74	35	57	-4	1	-.6	.1	5.3	149	35.0	113	87	51	0	0	1	0		
HARTFORD	66	43	79	30	54	-4	1	-.8	.0	2.4	57	31.5	96	91	47	0	1	1	0		
DC WASHINGTON	69	51	76	44	60	-6	2	-.4	.2	3.5	101	28.1	93	92	53	0	0	2	0		
FL APALACHICOLA	80	67	91	59	74	-1	5.5	4.1	4.3	11.1	123	51.4	111	--	--	1	0	3	2		
DAYTONA BEACH	82	73	87	70	77	0	4.7	3.3	2.5	9.9	137	41.9	105	93	71	0	0	4	3		
JACKSONVILLE	79	66	88	58	73	-2	9.3	8.1	8.4	15.8	231	60.8	137	94	70	0	0	4	2		
KRY WEST	88	79	89	75	83	2	2.7	1.3	2.0	7.8	115	31.8	106	85	68	0	0	4	2		
MIAMI	87	77	92	76	82	2	.6	-1.3	.2	7.0	79	40.5	87	90	63	2	0	4	0		
ORLANDO	82	72	90	68	77	-1	2.3	1.2	1.2	9.2	137	46.2	107	96	69	1	0	5	2		
TALLAHASSEE	80	66	89	59	73	-1	2.6	1.6	2.4	6.6	99	54.0	100	91	60	0	0	3	1		
TAMPA	84	71	92	67	78	-1	2.0	1.1	1.0	4.9	77	31.3	77	94	62	1	0	3	2		
WEST PALM BEACH	85	75	91	73	80	0	2.2	.1	1.3	7.3	72	44.2	93	91	64	1	0	5	2		
GA ATLANTA	71	57	79	51	64	-4	2.2	1.6	1.3	9.9	293	42.2	109	91	59	0	0	3	2		
AUGUSTA	78	57	87	45	68	-1	1.2	.6	1.0	4.3	116	38.5	107	99	50	0	0	2	1		
MACON	74	59	83	49	67	-4	1.2	.6	1.0	3.9	111	42.7	117	95	60	0	0	1	1		
SAVANNAH	78	63	87	53	70	-2	3.6	2.7	3.1	11.5	213	51.2	118	89	58	0	0	1	1		
HI HILO	85	70	86	66	77	1	.4	-1.3	.3	17.6	239	74.4	82	89	63	0	0	0	0		
HONOLULU	89	71	90	68	80	0	0	-.3	.0	2.1	282	8.8	59	83	49	2	0	0	0		
KAHULUI	87	71	89	66	79	1	1	-.1	.0	1.3	432	9.2	73	85	54	0	0	1	0		
LIHUE	85	74	86	70	79	1	1	-.7	.0	.7	28	17.5	61	82	61	0	0	1	0		
ID BOISE	85	53	96	40	69	11	.1	.0	.1	.4	70	4.7	57	58	19	3	0	2	0		
LEWISTON	78	51	86	44	65	7	.2	.0	-.2	1.0	115	8.5	90	68	32	0	0	0	0		
POCATELLO	81	38	91	33	60	6	.2	.0	.2	.3	42	5.0	63	70	18	1	0	1	0		
IL CHICAGO	70	44	82	36	57	-2	0	-.7	.0	4.3	100	20.4	73	91	40	0	0	0	0		
MOLINE	74	43	85	33	59	-1	0	-.8	.0	4.8	120	27.7	90	98	35	0	0	0	0		
PEORIA	73	44	82	37	58	-2	0	-.7	.0	5.8	149	22.7	79	91	36	0	0	0	0		
QUINCY	72	45	82	35	59	-3	0	-.9	.0	2.3	50	19.8	64	79	31	0	0	0	0		
ROCKFORD	70	42	82	32	56	-2	0	-.8	.0	5.4	137	22.6	76	94	41	0	1	0	0		
SPRINGFIELD	75	45	84	34	60	-2	0	-.7	.0	1.5	45	19.5	70	88	30	0	0	0	0		
IN EVANSVILLE	75	45	80	41	60	-4	0	-.5	.0	2.9	100	28.6	88	94	33	0	0	1	0		
FORT WAYNE	69	41	78	36	55	-2	.2	-.4	.2	6.0	218	31.4	116	94	41	0	0	1	0		
INDIANAPOLIS	70	43	76	38	57	-4	0	-.6	.0	3.4	116	31.6	103	96	40	0	0	0	0		
SOUTH BEND	68	44	80	36	56	-3	.1	-.7	.1	8.8	253	27.5	94	91	43	0	0	1	0		
IA DES MOINES	74	44	84	34	59	0	0	-.6	.0	5.0	153	25.8	98	90	39	0	0	0	0		
SIOUX CITY	78	43	89	35	60	-2	0	-.5	.0	2.8	105	24.5	110	87	35	0	0	0	0		
WATERLOO	77	40	88	28	59	-2	0	-.7	.0	2.2	61	23.0	82	98	31	0	0	0	0		
KS CONCORDIA	76	47	84	39	62	-1	0	-.6	.0	2.7	85	32.8	138	82	35	0	1	0	0		
DODGE CITY	81	46	86	42	63	-1	0	-.4	.0	.5	24	18.5	102	78	24	0	0	0	0		
GOODLAND	81	40	86	35	61	-2	0	-.3	.0	3.5	236	23.8	166	70	18	0	0	0	0		
TOPEKA	79	45	87	37	62	-2	0	-.7	.0	3.9	105	27.2	98	89	34	0	0	0	0		
WICHITA	79	49	85	45	64	-1	0	-.7	.0	2.9	79	26.2	109	87	30	0	0	0	0		
KY BOWLING GREEN	72	45	76	40	59	-1	.1	-.6	.1	4.0	116	29.9	78	96	45	0	0	1	0		
LEXINGTON	70	44	75	37	57	-1	0	-.6	.0	3.4	99	43.1	118	90	40	0	0	0	0		
LOUISVILLE	73	47	78	42	60	-1	0	-.6	.1	3.5	98	33.5	98	83	39	0	0	1	0		
LA BATON ROUGE	83	61	86	54	72	-2	0	-.8	.0	1.5	32	56.3	126	87	50	0	0	0	0		
LAKE CHARLES	83	61	85	54	72	-2	0	-.8	.0	3.6	59	49.1	118	82	41	0	0	0	0		
NEW ORLEANS	78	66	82	62	72	-2	0	-.9	.0	6.6	109	60.6	126	80	61	0	0	0	0		
SHREVEPORT	78	55	81	50	67	-6	0	-.7	.0	5.2	145	36.8	109	84	38	0	0	0	0		

Based on 1951-80 normals.

Weather Data for the Week Ending October 3, 1992

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
															0					1	2	3
ME CARIBOU	54	39	66	31	46	-2	.2	-1.5	.1	1.7	45	29.8	109	86	62	0	0	0	0	0	0	0
PORTLAND	64	42	75	30	53	.3	.3	-1.5	.3	3.1	87	29.5	96	86	47	0	0	2	1	1	0	0
MD BALTIMORE	69	49	78	40	59	.2	.2	-1.5	.2	6.0	161	28.1	87	99	53	0	0	0	0	2	2	0
SALISBURY	69	48	82	38	59	-1	1.1	-2	.6	6.6	153	35.3	100	97	51	0	0	0	0	0	2	0
MA BOSTON	68	48	78	36	58	-2	.7	-1.7	.7	3.5	94	27.7	87	79	43	0	0	0	0	0	0	0
CHATHAM	62	49	68	38	55	.2	.2	-1.6	.2	2.0	50	28.9	85	85	65	0	0	0	0	2	2	0
MT ALPENA	64	39	81	29	51	-1	.5	-1.1	.5	2.5	77	18.9	82	95	45	0	0	2	2	1	1	1
DETROIT	67	43	78	37	55	-1	.1	-1.4	.1	5.6	230	28.6	119	88	43	0	0	0	0	1	1	1
FLINT	66	42	75	34	54	.3	.3	-1.2	.3	2.5	100	28.3	124	90	47	0	0	0	0	1	1	1
GRAND RAPIDS	66	43	76	35	54	.6	.6	-1.1	.6	5.6	161	30.9	120	93	50	0	0	0	0	0	0	1
HOUGHTON LAKE	63	41	74	31	52	.4	.4	-1.2	.4	3.6	121	19.9	91	93	52	0	0	2	2	1	1	1
LANSING	67	41	78	31	54	.1	.1	-1.4	.1	3.2	103	26.7	114	92	48	0	0	1	1	2	1	1
MARQUETTE	64	39	87	29	51	.4	.4	-1.4	.4	3.4	79	22.6	78	88	48	0	0	2	2	1	1	1
MUSKOGON	65	44	74	32	54	.2	.2	-1.5	.2	3.5	112	18.3	78	95	53	0	0	1	1	2	1	1
SAULT ST. MARIE	60	37	77	33	48	.8	.8	-1.0	.5	5.7	138	24.1	96	92	62	0	0	1	3	3	1	1
MN ALEXANDRIA	74	40	85	32	57	4	.0	-1.5	.0	1.3	52	16.6	79	77	29	0	0	1	0	0	0	0
DULUTH	65	37	84	30	51	1	1	-1.6	.1	3.9	113	24.5	100	85	37	0	0	1	0	0	0	0
INT'L FALLS	66	34	83	30	50	2	.1	-1.5	.1	2.3	70	20.4	100	92	37	0	0	4	1	0	0	0
MINNEAPOLIS	72	43	84	33	57	2	.0	-1.5	.0	5.2	196	24.6	110	88	39	0	0	0	0	0	0	0
ROCHESTER	71	40	84	29	56	1	.0	-1.7	.0	4.9	137	20.5	85	92	38	0	0	2	0	0	0	0
MS GREENWOOD	79	51	80	42	65	-1	.0	-1.7	.0	2.2	61	33.6	83	94	39	0	0	0	0	0	0	0
JACKSON	78	56	81	50	67	.0	.0	-1.6	.0	3.8	102	34.3	95	91	48	0	0	0	0	0	0	0
MERIDIAN	78	57	84	50	68	.1	.1	-1.6	.1	1.0	26	46.9	112	88	45	0	0	0	0	1	0	0
MO CAPE GIRARDEAU	74	45	77	40	59	-1	.0	-1.7	.0	5.4	135	28.3	81	99	44	0	0	0	0	0	0	0
COLUMBIA	74	44	80	37	59	-1	.0	-1.9	.0	4.3	100	22.6	76	95	39	0	0	0	0	0	0	0
KANSAS CITY	75	47	82	37	61	-1	.0	-1.9	.0	5.7	122	40.4	134	92	42	0	0	0	0	0	0	0
SAINT LOUIS	73	50	80	43	62	-1	.0	-1.6	.0	3.0	102	22.3	82	78	32	0	0	0	0	0	0	0
SPRINGFIELD	74	45	78	35	60	-1	.0	-1.9	.0	7.4	161	33.9	108	89	35	0	0	0	0	0	0	0
MT BILLINGS	83	46	90	36	64	10	.0	-1.3	.0	.6	45	10.2	83	46	18	1	0	0	0	0	0	0
GLASGOW	80	42	90	32	61	9	.0	-1.2	.0	.4	44	7.6	78	70	19	2	1	1	1	0	0	0
GREAT FALLS	81	45	91	37	63	10	.0	-1.2	.0	.3	23	11.3	88	59	17	2	0	0	0	0	0	0
HAVRE	79	41	87	28	60	8	.0	-1.2	.0	.6	57	6.8	67	77	26	0	1	0	0	0	0	0
HELENA	79	39	85	31	59	8	.0	-1.2	.0	.1	10	6.7	69	62	16	0	1	0	0	0	0	0
KALISPELL	75	36	86	28	56	7	.0	-1.2	.0	1.0	87	12.9	107	95	32	0	3	0	0	0	0	0
MILES CITY	84	42	92	33	63	9	.0	-1.2	.0	1.3	109	12.5	103	62	19	4	0	0	0	0	0	0
MISSOULA	77	39	84	29	58	8	.0	-1.2	.0	.7	67	9.3	90	79	24	0	1	0	0	0	0	0
NE GRAND ISLAND	81	42	87	35	61	2	.0	-1.4	.0	1.0	39	26.3	127	90	24	0	0	0	0	0	0	0
LINCOLN	80	41	88	35	61	1	.0	-1.5	.0	2.6	84	21.7	91	93	32	0	0	0	0	0	0	0
NORFOLK	80	40	93	33	61	3	.0	-1.4	.0	2.9	130	23.7	112	92	27	1	0	0	0	0	0	0
NORTH PLATTE	82	37	90	31	59	3	.0	-1.3	.0	.3	14	21.6	123	88	21	1	1	0	0	0	0	0
OMAHA	75	49	83	39	62	1	.0	-1.6	.0	4.6	124	28.9	109	81	45	0	0	0	0	0	0	0
SCOTTSBLUFF	83	36	88	33	60	3	.0	-1.2	.0	.2	15	13.0	101	73	14	0	0	0	0	0	0	0
VALENTINE	85	36	94	24	60	5	.0	-1.2	.0	1.4	93	17.2	110	74	16	3	1	0	0	0	0	0
NV ELY	78	37	84	31	58	6	.0	-1.2	.0	.3	33	7.4	104	48	14	0	2	0	0	0	0	0
LAS VEGAS	95	66	99	61	81	6	.0	-1.1	.0	.0	0	6.9	226	25	9	6	0	0	0	0	0	0
RENO	81	44	91	36	63	7	.0	-1.1	.0	.0	0	3.0	58	60	18	1	0	0	0	0	0	0
WINNEMUCA	80	40	92	31	60	6	.1	-1.0	.1	.2	39	2.1	38	53	23	2	2	1	0	0	0	0
NH CONCORD	65	39	76	24	52	-2	.0	-1.7	.0	2.5	73	21.6	80	97	47	0	3	0	0	0	0	0
NJ ATLANTIC CITY	68	45	76	35	57	-1	.4	-1.2	.3	5.1	162	28.6	90	96	53	0	0	0	2	0	0	0
NM ALBUQUERQUE	82	49	83	48	66	2	.0	-1.2	.0	.8	88	9.1	144	48	16	0	0	0	0	0	0	0
CLOVIS	79	52	83	50	66	1	.0	-1.4	.0	1.2	57	19.3	133	56	23	0	0	0	0	0	0	0
ROSWELL	86	49	89	48	67	2	.0	-1.3	.0	.1	5	12.0	134	54	15	0	0	0	0	0	0	0
NY ALBANY	64	41	74	30	52	-3	.0	-1.7	.0	2.4	70	21.9	81	94	50	0	1	1	0	0	0	0
BINGHAMTON	60	42	72	31	51	-3	.3	-1.4	.2	3.5	98	30.8	110	92	55	0	1	2	0	0	0	0
BUFFALO	62	47	68	40	54	-3	.2	-1.5	.2	5.6	155	36.1	130	83	52	0	0	0	1	0	0	0
NEW YORK	68	52	79	41	60	-3	.3	-1.4	.3	2.6	69	25.6	79	81	47	0	0	0	1	0	0	0
ROCHESTER	63	43	73	37	53	-1	.2	-1.4	.2	3.0	104	28.6	120	94	53	0	0	0	1	0	0	0
SYRACUSE	63	44	75	34	53	-3	.4	-1.3	.3	4.6	128	34.6	117	93	51	0	0	0	3	0	0	0
NC ASHEVILLE	69	47	74	37	58	-1	1.3	-1.5	.7	3.2	78	38.9	112	96	54	0	0	0	3	2	2	1
CHARLOTTE	73	53	77	46	63	-1	4.6	-1.1	.6	8.3	216	39.0	114	89	49	0	0	0	4	2	2	1
GREENSBORO	71	49	77	41	60	-1	4.6	-1.1	.6	3.1	78	31.8	95	94	53	0	0	0	2	1	1	1
HATTERAS	73	59	85	50	66	-1	3.6	-1.4	.6	6.1	99	47.5	113	89	58	0	0	0	1	1	1	1
NEW BERN	76	55	88	43	65	-1	4	-1.7	.4	2.2	36	40.4	93	92	50	0	0	0	2	0	0	0
RALEIGH	74	50	86	40	62	-1	4	-1.7	.4	2.2	63	32.0	96	96	48	0	0	0	0	0	0	0
WILMINGTON	75	55	87	46	65	-1	1.4	-1.5	1.4	2.2	37	51.5	116	91	53	0	0	0	1	1	1	1
ND BISMARCK	78	32	94	20	55	3	.0	-1.2	.0	1.3	89	11.0	82	85	22	1	2	0	0	0	0	0
FARGO	74	38	90	25	56	3	.0	-1.4	.0	2.6	129	17.9	106	79	31	1	1	0	0	0	0	0
GRAND FORKS	73	38	92	28	56	5	.0	-1.4	.0	1.5	67	15.3	96	79	34	1	1	0	0	0	0	0
WILLISTON	78	35	92	23	56	4	.0	-1.2	.0	.8	54	10.8	90	80	22	1	3	1	0	0	0	0
OH AKRON-CANTON	65	43	73	37	54	-1	.0	-1.6	.0	3.7	118	35.7	125	94	48	0	0	0	1	0	0	0
CINCINNATI	69	42	74	36	56	-1	.0	-1.6	.0	3.2	104	30.7	97	96	43	0	0	0	0	0	0	0
CLEVELAND	67	44	77	38	56	-1	.0	-1.6	.0	3.3	105	35.4	128	93	43	0	0	0	0	0	0	0
COLUMBUS	69	42	77	36	55																	

Weather Data for the Week Ending October 3, 1992

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	AVERAGE	MINIMUM	90 AND ABOVE	32 AND BELOW	TEMP. °F		PRECIP.	
																					.01 INCH OR MORE	.50 INCH OR MORE		
TOLEDO	69	43	79	36	56	-2	.1	-.4	.1	4.0	150	27.3	110	92	41	0	0	0	0	1	0			
YOUNGSTOWN	65	43	75	37	54	-3	.2	-.5	.2	4.6	139	32.5	111	96	49	0	0	0	0	1	0			
OK OKLAHOMA CITY	79	50	80	46	64	-4	.0	-.8	.0	2.9	78	31.1	121	84	31	0	0	0	0	0	0			
TULSA	78	49	80	45	63	-5	.0	-.9	.0	2.7	56	29.9	95	89	33	0	0	0	0	0	0			
OR ASTORIA	67	47	75	37	57	1	.1	-1.0	.0	2.7	73	28.5	68	96	63	0	0	0	3	0	0			
BURNS	76	39	89	30	58	4	.7	.6	.4	.8	142	6.8	101	66	28	0	1	2	0	0	0			
MEDFORD	80	48	94	44	64	4	.5	.2	.4	.5	59	8.0	68	84	30	3	0	0	2	0	0			
PENDLETON	75	48	89	41	62	3	.4	.3	.5	.9	136	5.9	74	81	32	0	0	0	1	0	0			
PORTLAND	72	49	82	42	61	2	.5	.0	.3	1.6	85	17.1	75	100	54	0	0	0	3	0	0			
SALEM	72	48	83	40	60	3	.5	-.1	.4	1.2	63	17.7	73	91	52	0	0	0	2	0	0			
PA ALLENTOWN	65	44	76	34	55	-4	.1	-.7	.1	3.4	80	28.5	84	93	51	0	0	0	1	0	0			
ERIE	65	50	73	42	58	0	.1	-.8	.1	6.8	159	31.4	106	80	51	0	0	0	1	0	0			
HARRISBURG	67	49	76	39	58	-3	.2	-.7	.1	5.7	147	24.3	80	86	48	0	0	0	1	0	0			
PHILADELPHIA	67	50	78	41	59	-4	.2	-.5	.1	3.0	83	21.3	67	89	46	0	0	0	2	0	0			
PITTSBURGH	65	42	73	35	54	-5	.3	-.3	.3	2.9	98	29.0	99	93	46	0	0	0	1	0	0			
SCRANTON	64	44	76	33	54	-3	.3	-.7	.3	2.7	76	21.2	79	96	55	0	0	0	1	0	0			
RI PROVIDENCE	66	47	77	35	56	-2	.2	-.8	.1	5.1	132	34.0	103	88	49	0	0	0	1	0	0			
SC CHARLESTON	77	61	87	52	69	-2	.9	.1	.9	4.0	76	42.8	98	88	56	0	0	0	1	1	1			
COLUMBIA	76	55	85	43	65	-4	1.6	.9	1.0	5.2	117	39.1	96	93	49	0	0	0	2	2	2			
FLORENCE	77	55	89	45	66	-3	.6	-.1	.3	4.7	110	37.2	101	91	45	0	0	0	3	0	0			
GREENVILLE	72	51	76	44	62	-5	1.9	.9	1.3	4.5	90	41.6	102	96	56	0	0	0	3	1	1			
SD ABERDEEN	78	34	90	25	56	2	.2	-.3	.4	1.6	103	14.6	93	86	20	1	2	0	0	0	0			
HURON	78	37	88	25	57	2	.0	-.3	.0	2.6	172	20.8	129	89	31	0	1	0	0	0	0			
RAPID CITY	83	43	92	30	63	7	.0	-.2	.0	.4	39	11.9	82	51	14	2	1	0	0	0	0			
SIoux FALLS	77	39	88	29	58	3	.0	-.5	.0	3.1	104	27.9	133	91	31	0	1	0	0	0	0			
TN CHATTANOOGA	73	52	79	45	62	-4	.5	-.4	.2	4.9	108	40.1	98	96	52	0	0	0	3	0	0			
KNOXVILLE	72	50	75	44	61	-5	.3	-.3	.2	1.8	55	30.2	83	95	50	0	0	0	3	0	0			
MEMPHIS	77	52	79	46	64	-5	.0	-.6	.0	3.6	96	35.2	87	85	34	0	0	0	0	0	0			
NASHVILLE	73	48	76	42	60	-6	.2	-.7	.1	3.5	88	30.9	81	91	41	0	0	0	0	0	0			
TX ABILENE	83	51	85	48	67	-5	.0	-.7	.0	1.8	54	23.1	121	76	23	0	0	0	0	0	0			
AMARILLO	84	46	88	44	65	0	.0	-.4	.0	.2	9	19.0	114	63	18	0	0	0	0	0	0			
AUSTIN	86	60	88	54	73	-2	.0	-.9	.0	2.0	50	37.6	156	69	29	0	0	0	0	0	0			
BRAUNTON	85	60	89	54	72	-3	.0	-1.0	.0	2.1	36	48.9	114	85	36	0	0	0	0	0	0			
BROWNSVILLE	85	65	86	57	75	-4	.1	-1.0	.1	3.6	64	24.5	124	87	44	0	0	0	1	0	0			
CORPUS CHRISTI	86	63	89	56	75	-3	.0	-1.1	.0	4.3	61	35.0	134	79	33	0	0	0	0	0	0			
DEL RIO	89	59	91	49	74	-2	.0	-.6	.0	.4	14	18.6	133	59	21	3	0	0	0	0	0			
EL PASO	85	51	89	47	68	-2	.0	-.3	.0	.2	10	9.5	150	49	15	0	0	0	0	0	0			
FORT WORTH	81	55	83	51	68	-5	.0	-.8	.0	3.3	87	31.4	127	82	29	0	0	0	0	0	0			
GALVESTON	81	66	85	60	73	-3	.0	-1.0	.0	4.2	65	40.5	128	73	43	0	0	0	0	0	0			
HOUSTON	85	57	86	51	71	-4	.0	-1.1	.0	1.1	19	41.9	117	85	32	0	0	0	0	0	0			
LUBBOCK	86	49	89	48	68	1	.0	-.5	.0	.7	31	19.6	131	68	20	0	0	0	0	0	0			
MIDLAND	84	47	87	45	66	-4	.0	-.4	.0	.2	7	20.1	178	69	17	0	0	0	0	0	0			
SAN ANGELO	84	46	87	40	65	-6	.0	-.6	.0	.3	8	18.0	122	86	19	0	0	0	0	0	0			
SAN ANTONIO	87	57	91	50	72	-3	.0	-.8	.0	1.1	28	40.0	176	72	27	1	0	0	0	0	0			
VICTORIA	87	57	90	48	72	-4	.0	-1.2	.0	3.6	55	44.2	149	87	31	1	0	0	0	0	0			
WACO	84	52	86	43	68	-6	.0	-.8	.0	2.2	63	29.8	124	80	29	0	0	0	0	0	0			
WICHITA FALLS	82	48	84	48	65	-6	.0	-.7	.0	1.7	47	22.1	102	90	26	0	0	0	0	0	0			
UT CEDAR CITY	82	46	85	38	64	6	.0	-.2	.0	.2	19	8.6	108	37	10	0	0	0	0	0	0			
SALT LAKE CITY	82	50	88	44	66	7	.1	-.2	.1	.5	56	7.6	66	55	14	0	0	0	1	0	0			
VT BURLINGTON	60	42	70	32	51	-2	.1	-.6	.1	4.7	138	23.3	90	86	50	0	2	2	0	0	0			
VA NORFOLK	72	56	87	46	64	-3	.1	-.8	.1	2.1	45	37.0	103	87	49	0	0	0	2	2	0	0		
RICHMOND	71	49	84	39	61	-4	.4	-.4	.3	2.4	61	34.4	101	96	48	0	0	0	3	3	0	0		
ROANOKE	71	45	78	38	58	-5	.9	.1	.6	2.1	60	32.8	108	96	48	0	0	0	2	2	0	1		
WA QUILLAYUTE	67	48	78	36	57	4	.3	-1.7	.2	5.6	79	57.9	87	96	61	0	0	0	2	2	0	0		
SEATTLE-TACOMA	71	52	82	44	61	5	.4	-.2	.3	1.5	66	21.1	90	90	48	0	0	0	2	2	0	0		
SPOKANE	77	47	89	31	62	8	.1	-.1	.1	.5	59	8.7	79	74	29	0	1	1	0	0	0	0		
YAKIMA	78	44	88	33	61	5	.0	-.1	.0	.3	72	4.3	83	82	31	0	0	0	0	0	0	0		
WV BECKLEY	66	42	73	34	54	-3	.2	-.5	.2	1.6	41	30.7	90	92	46	0	0	0	1	1	0	0		
CHARLESTON	69	43	76	37	56	-6	.5	-.1	.5	1.4	43	32.5	96	99	41	0	0	0	1	1	0	0		
HUNTINGTON	70	43	77	38	57	-6	.1	-.5	.1	1.2	37	30.4	93	99	41	0	0	0	1	1	0	0		
PARKERSBURG	68	41	75	35	55	-7	.3	-.3	.3	2.4	79	28.7	94	98	41	0	0	0	1	1	0	0		
WI GREEN BAY	67	42	82	30	55	1	.1	-.5	.1	5.6	167	21.8	95	94	44	0	1	1	0	0	0	0		
LACROSSE	71	44	85	34	58	1	.0	-.6	.0	7.0	190	26.1	102	94	38	0	0	0	1	1	0	0		
MADISON	70	42	81	30	56	0	.0	-.6	.0	6.0	184	23.9	94	89	43	0	0	0	1	1	0	0		
MILWAUKEE	67	47	80	38	57	0	.0	-.6	.0	4.1	134	24.7	99	83	43	0	0	0	0	0	0	0		
WAUSAU	68	40	82	30	54	1	.0	-.7	.0	8.5	207	26.4	99	96	38	0	0	0	1	1	0	0		
WY CASPER	81	41	87	31	61	8	.0	-.2	.0	.3	35	7.4	79	47	11	0	0	0	1	0	0	0		
CHEYENNE	78	43	83	36	61	7	.0	-.2	.0	.1	10.3	87	46	12	0	0	0	0	0	0	0	0		
LANDER	80	44	84	37	62	9	.0	-.3	.0	.1	10.3	96	41	11	0	0	0	0	0	0	0	0		
SHERIDAN	83	44	90	30	63	11	.0	-.3	.0	.4	34	11.6	93	48	16	1	1	0	0	0	0	0		

Based on 1951-80 normals.

## September Weather and Crop Summary

### Weather

Although frosty airmasses grazed the northern Corn Belt at regular intervals, most of the Midwest escaped September without freeze damage. However, a late-month freeze in the Dakotas and the upper Mississippi Valley (MN, WI, northern IA) locally affected crop conditions. Elsewhere, weather headlines were generated by compact, intense systems such as Hurricane "Iniki" in Hawaii (September 11) and a thunderstorm complex over south-central Iowa (September 14-15).

Temperatures remained cool in many areas east of the Rockies, continuing a trend that developed this spring. Departures reached  $-3^{\circ}\text{F}$  in parts of the Midwest. But those early autumn conditions paled next to interior Alaska's wintery weather. Bitter cold and snow arrived during the second week of September, freezing summer in its tracks. Fairbanks had its coldest September on record (average temperature of  $31.7^{\circ}\text{F}$ ), more than  $6^{\circ}\text{F}$  colder than the previous mark set in 1908. More than 2 feet of snow fell (another September record), and the mercury failed to top  $40^{\circ}\text{F}$  during the last 20 days of the month. In sharp contrast, temperatures averaged mostly above normal in the Western Contiguous States. The monthly average temperature of  $92^{\circ}\text{F}$  in Phoenix, AZ, was  $5^{\circ}\text{F}$  above normal.

Significant precipitation in the West was primarily confined to the Cascades and the Rockies. At lower elevations, cold fronts produced gusty winds and raised dust. Wildfires returned to California late in the month during a spell of breezy, dry weather. But adequate to surplus moisture fell on the eastern half of the Nation. In the southeastern Plains, slow-moving fronts dropped up to twice the normal rainfall. Southeastern Oklahoma endured up to 17 inches. But local areas of south-central Iowa received nearly that much rain in less than 24 hours on the night of September 14-15. Thayer, IA, reported an unofficial total of 16 inches. Heavy rain redeveloped over southeastern Minnesota and central Wisconsin during the next evening, resulting in totals of up to 12 inches.

Three tropical systems affected the United States during September. On September 11, Hurricane "Iniki" devastated Kauai Island, HI, with 130 miles per hour (mph) sustained winds. Kauai (population 51,000) endured severe damage to crops and infrastructure. According to press reports, 7,000 homes were left uninhabitable, and the island's sugarcane and tropical fruit and nut crops sustained damage. The other storms, tropical storm "Danielle" and a tropical depression, left their mark through beach erosion. "Danielle" made landfall in southeastern Virginia on September 25, churning the Atlantic north of its center. And the depression, which later became tropical storm "Earl," caused coastal flooding and beach erosion in northeastern Florida.

### Fieldwork

Cool weather continued across the eastern half of the Nation, hampering crop development. Near normal temperatures at mid-month over the Corn Belt improved crop prospects slightly in that

area. Rainfall from the Great Plains eastward throughout September kept pastures green but hindered hay, spring wheat, and rice harvests. Short moisture supplies in the West were further aggravated by September's dry, hot weather. Frost was reported in early September in Idaho, Montana, and Utah, hurting crops there. The end of the month saw frost from the northern Great Plains to New England, which caused limited damage to field crops but hurt vegetables. Crops in the Corn Belt continued under the threat of the season's first killing frost. Higher temperatures at the end of the month from the Rocky Mountains to the Ohio Valley promoted crop maturity.

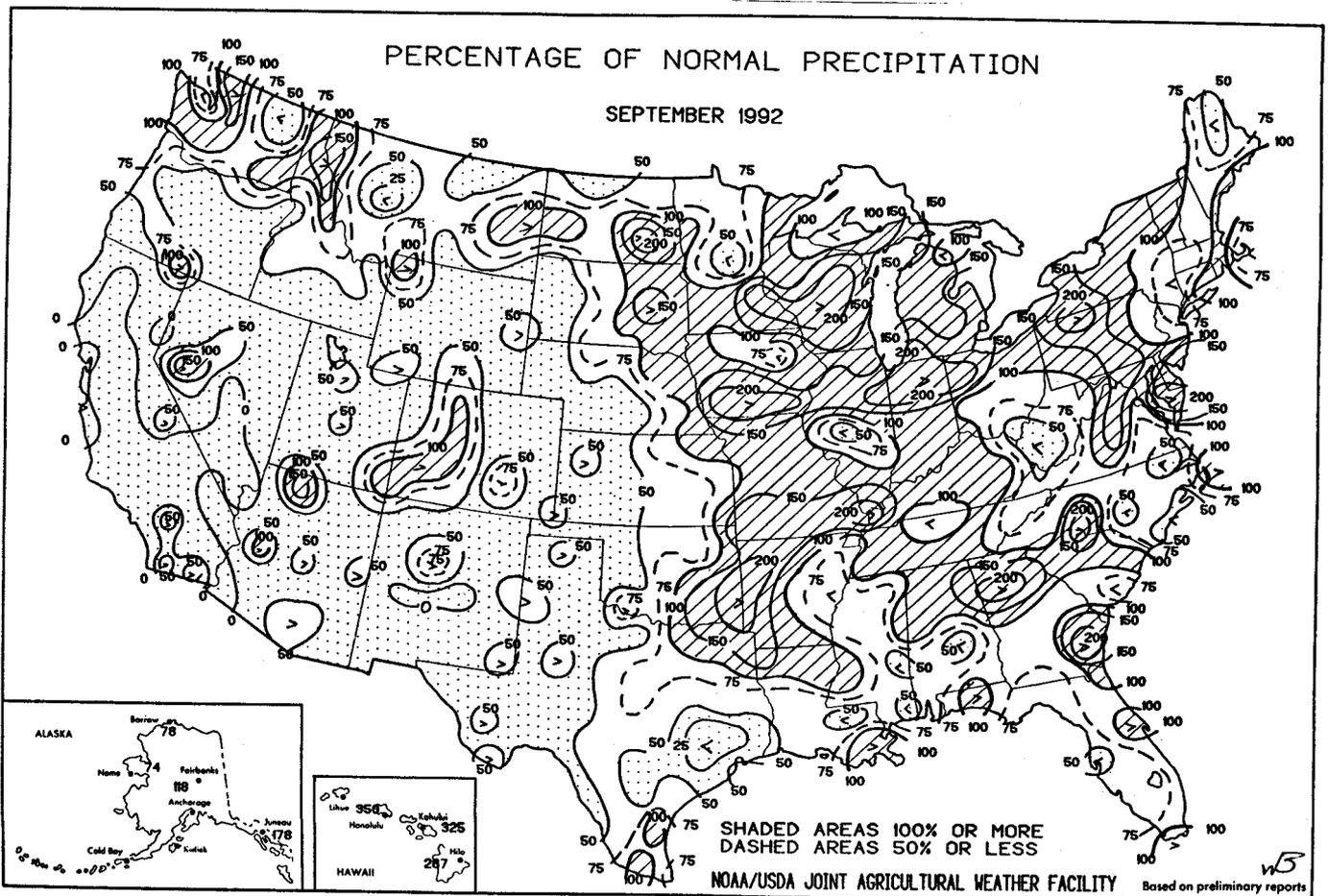
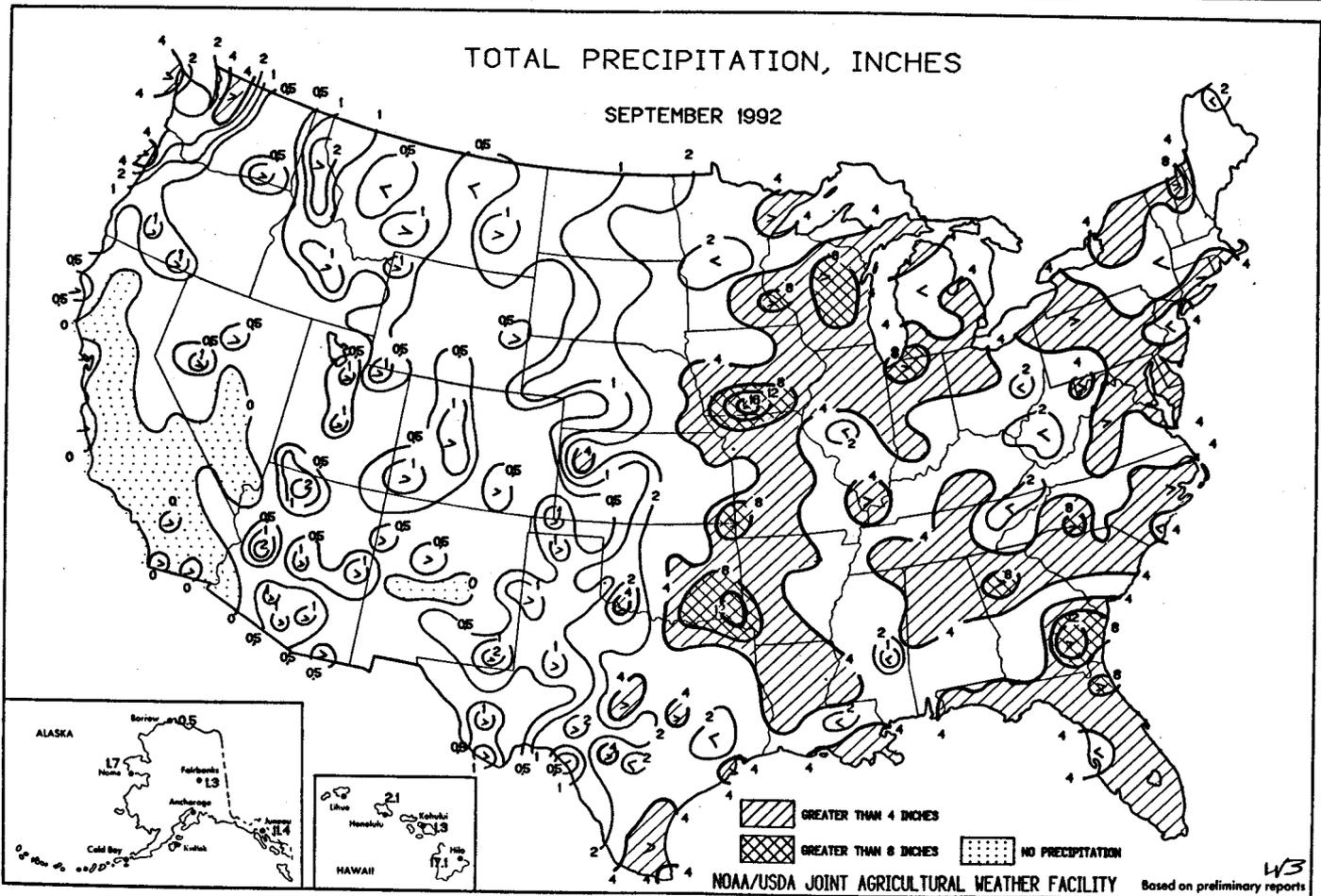
The continued coolness of the growing season resulted in delayed **corn** progress entering September. Below-normal temperatures prevailed across the Corn Belt during September, further inhibiting development and delaying harvest. Hot, summer-like weather at the end of the month across the western Corn Belt allowed crop progress to advance. On October 4, crop progress remained behind normal throughout the Corn Belt, with the most extreme delays in the northernmost States. Sixty-six percent (%) of the crop was rated mature in the 17 major States, compared with 97% last year and 91% average. Only 11% of the crop was harvested, compared with 46% last year and 33% average.

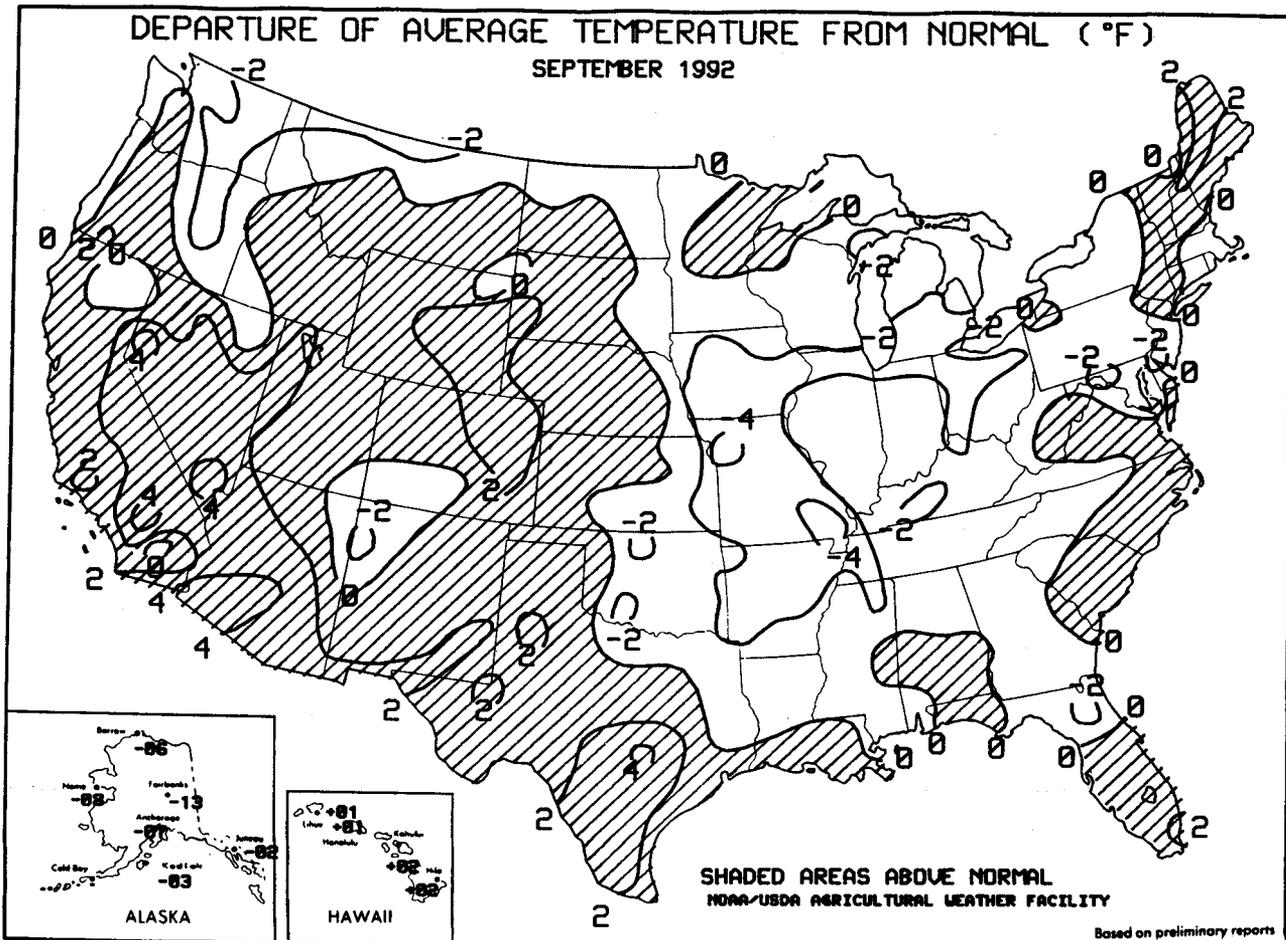
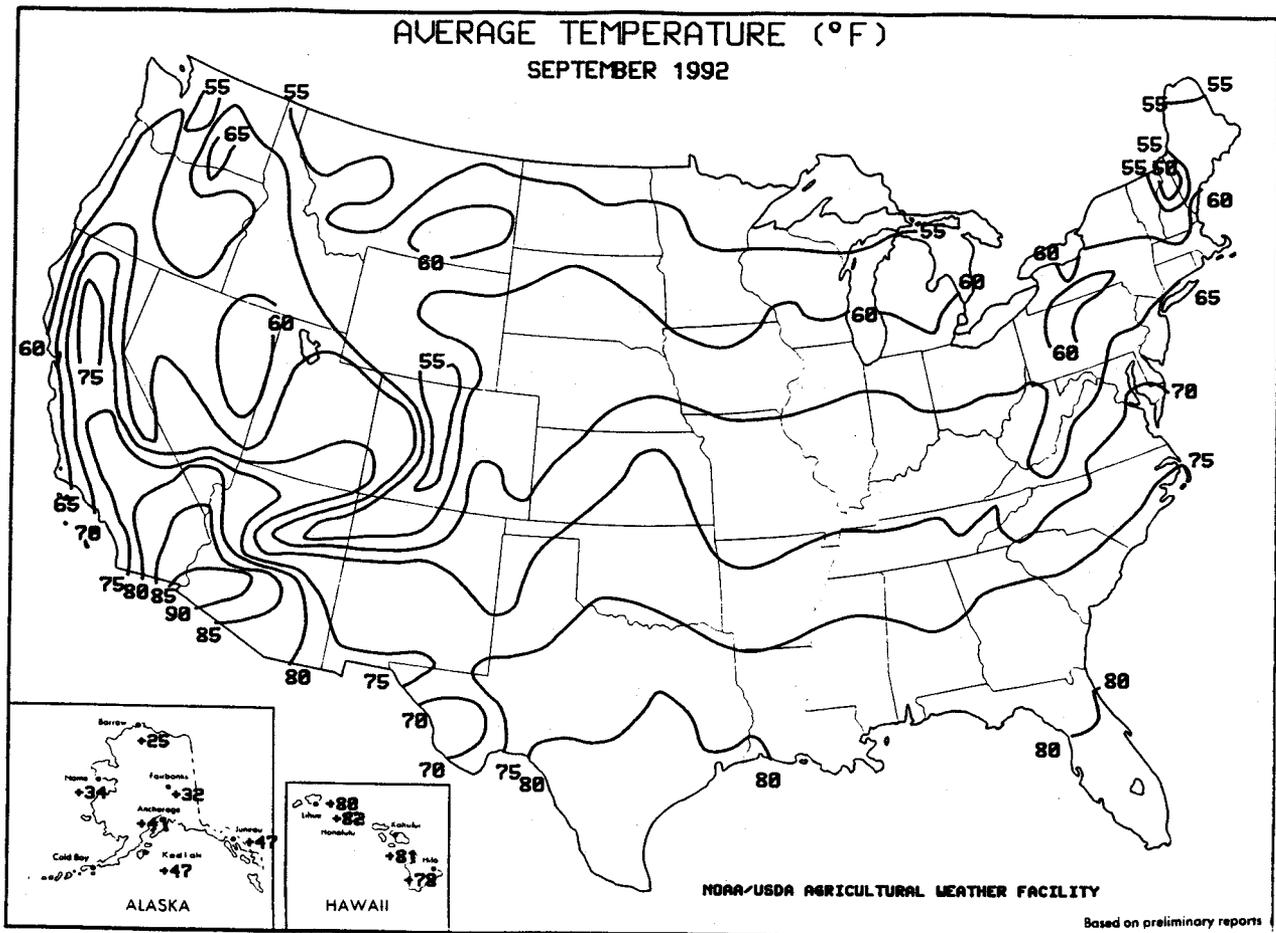
The beginning of September saw the **soybean** crop development behind normal in the northern producing States, but ahead of normal in the Delta. Higher daytime temperatures toward the end of the month, coupled with earlier near-freezing temperatures and decreasing hours of sunlight, caused crop development to reach normal in most areas. Harvest started at the end of the month in the Delta, as well as in the Midwest, but the pace was behind normal. Harvest was 21% complete, compared with 37% last year and 33% average.

**Winter wheat** harvest was virtually complete in the Pacific Northwest and very near completion in the North Central States entering September, and field preparation and fall seeding was increasing. Winter wheat seedings progressed well as excellent planting conditions prevailed through most of the month. Seeding reached 62 percent in the 19 major producing States by October 4, compared with 61% last year and 60% for the 5-year average. **Spring wheat** harvest was lagging well behind normal entering September, as the coolness of the growing season had delayed crop maturity. Progress continued to lag behind normal throughout the month, but harvest was nevertheless virtually complete by month's end.

**Cotton** progress was well behind normal in the southern Plains and was somewhat delayed in the Southeast at the beginning of September. Cool, damp weather continued to delay crop development in the Southeast and southern Plains, while warm temperatures in the Southwest moved development along. The progress of boll opening was behind schedule. As of October 4, boll opening was 63% completed, compared to 72% last year and 72% average. Harvest was ahead of normal in the Southwest and behind normal elsewhere. For the week ending October 4, harvest was 18% completed, compared to 23% completed last year and 23% average.

(Continued to p. 13)





# TEMPERATURE AND PRECIPITATION SUMMARY

## September 1992

STATES AND STATIONS	Temp. °F		Precip.		STATES AND STATIONS	Temp. °F		Precip.		STATES AND STATIONS	Temp. °F		Precip.	
	AVERAGE	DEPARTURE	TOTAL	DEPARTURE		AVERAGE	DEPARTURE	TOTAL	DEPARTURE		AVERAGE	DEPARTURE	TOTAL	DEPARTURE
AL BIRMINGHAM	73	-1	5.7	1.4	LAKE CHARLES	78	0	3.6	-2.1	OK YOUNGSTOWN	61	-2	4.6	1.5
AL HUNTSVILLE	72	-1	5.9	1.9	NEW ORLEANS	79	0	6.6	0.8	OK OKLAHOMA CITY	73	-1	2.9	-0.5
AL MOBILE	77	-1	3.3	-3.3	SHREVEPORT	76	-1	5.2	1.9	OK TULSA	73	-1	2.7	-1.7
AL MONTGOMERY	77	0	1.4	-3.3	ME CARIBOU	56	3	1.5	-2.0	OR ASTORIA	57	-2	2.7	-0.5
AK ANCHORAGE	41	-7	2.8	0.4	MD PORTLAND	59	0	3.1	-0.1	OR BURNS	56	-3	0.1	-0.5
AK BARROW	25	-5	0.5	-0.1	MD BALTIMORE	68	-1	6.0	2.5	OR MEDFORD	67	-2	0.1	-0.7
AK FAIRBANKS	37	-13	1.3	0.2	MA SALISBURY	69	1	6.6	2.6	OR PENDELTON	62	-2	0.4	-0.2
AK JUNEAU	42	-2	11.4	5.0	MA BOSTON	64	-1	3.5	0.1	OR PORTLAND	63	0	1.1	-0.5
AK KODIAK	47	-3	2.7	-3.6	MA CHATHAM	61	-1	2.0	-1.7	OR SALEM	62	0	0.7	-0.9
AK NOME	34	-8	1.7	-0.6	MI ALPENA	56	-2	2.5	-0.4	PA ALLENTOWN	64	-1	3.4	-0.6
AZ FLAGSTAFF	59	1	T	-1.5	MI DETROIT	61	-2	5.6	3.3	PA ERIE	64	-1	6.8	2.8
AZ PHOENIX	91	6	T	-0.6	MI FLINT	60	-1	2.5	0.1	PA HARRISBURG	65	-1	5.6	2.0
AZ PRESCOTT	69	2	T	-1.0	MI GRAND RAPIDS	60	-3	5.6	2.5	PA PHILADELPHIA	68	0	3.0	-0.4
AZ TUCSON	84	3	0.9	-0.4	MI HOUGHTON LAKE	57	0	3.6	0.8	PA PITTSBURGH	64	-1	2.9	0.2
AZ WINSLOW	68	-1	0.2	-0.6	MI LANSING	59	-3	3.2	0.2	PA SCRANTON	63	0	2.6	-0.6
AZ YUMA	92	5	0.0	-0.2	MI MARQUETTE	53	-1	3.4	-0.6	PA WILLIAMSPORT	64	-0	4.2	0.6
AR FORT SMITH	71	-3	6.9	3.7	MI MAUSKEGON	60	-2	3.5	0.6	RI PROVIDENCE	64	0	5.1	1.6
AR LITTLE ROCK	73	-2	3.0	-1.2	MI SAULT ST. MARIE	54	-1	5.7	1.8	RI CHARLESTON	76	0	3.0	-1.9
CA BAKERSFIELD	78	0	0.0	-0.1	MS PADUCAH	69	-1	5.8	2.3	SC COLUMBIA	75	0	4.6	0.4
CA BISHOP	68	0	0.1	-0.1	MN ALEXANDRIA	58	0	1.3	-1.0	SC FLORENCE	75	0	4.4	0.3
CA EUREKA	58	1	0.3	-0.6	MN DULUTH	54	0	3.9	0.6	SC GREENVILLE	71	-1	4.3	-0.3
CA FRESNO	77	3	T	-0.2	MN INT'L FALLS	53	0	2.3	-0.9	SD ABERDEEN	59	0	1.6	0.1
CA LOS ANGELES	71	1	T	-0.1	MN MINNEAPOLIS	60	-1	5.2	2.7	SD HURON	60	-1	2.6	1.2
CA REDDING	75	-1	0.0	-1.0	MS ROCHESTER	58	-1	4.9	1.6	SD RAPID CITY	63	-2	0.4	-0.6
CA SACRAMENTO	73	1	0.0	-0.3	MS ST CLOUD	57	0	1.0	-1.8	SD SIOUX FALLS	60	-1	3.1	0.3
CA SAN DIEGO	73	2	0.0	-0.2	MS GREENWOOD	75	0	2.2	-1.2	TN BRISTOL	68	-1	1.5	-1.5
CA SAN FRANCISCO	65	1	T	-0.2	MS JACKSON	76	-1	3.8	0.3	TN CHATTANOOGA	71	-1	4.7	0.4
CA STOCKTON	74	1	0.0	-0.2	MS MERIDIAN	76	1	0.9	-2.7	TN KNOXVILLE	71	0	1.8	-2.7
CO ALAMOSA	55	0	0.5	-0.2	MS TUBULO	73	-2	2.5	-1.2	TN MEMPHIS	73	-1	3.6	0.0
CO CO. SPRINGS	63	2	0.1	-1.2	MO CAPE GIRARDEAU	---	---	5.4	1.6	TX NASHVILLE	71	-1	3.4	-0.3
CO DENVER	65	3	T	-1.2	MO COLUMBIA	66	-3	4.3	0.7	TX ABILENE	76	0	1.8	-1.3
CO GRAND JUNCTION	68	1	0.3	-0.4	MO KANSAS CITY	66	-4	5.7	1.4	TX AMARILLO	70	1	0.2	-1.5
CO PUEBLO	66	0	0.7	-0.1	MO SAINT LOUIS	69	-1	3.0	0.3	TX AUSTIN	81	2	2.0	-1.6
CT BRIDGEPORT	65	-1	5.3	2.0	MT SPRINGFIELD	68	-2	7.4	3.1	TX BEAUMONT	79	0	2.1	-3.3
CT HARTFORD	62	-1	2.4	-1.5	MT BILLINGS	61	1	0.6	-0.6	TX BROWNSVILLE	82	0	3.6	-1.6
DC WASHINGTON	69	-2	3.5	0.3	MT GLASGOW	57	0	0.4	-0.5	TX CORPUS CHRISTI	82	0	4.3	-1.9
FL DAYLACHICOLA	79	0	5.8	-2.8	MT GREAT FALLS	57	-1	0.2	-0.8	TX DEL RIO	82	1	0.4	-2.3
FL FAIRBANKS BEACH	80	0	6.6	-0.1	MT HAVRE	55	-3	0.6	-0.3	TX EL PASO	78	3	0.2	-1.2
FL FT. MYERS	83	1	4.4	-4.2	MT HRELENA	57	1	0.1	-0.7	TX FORT WORTH	78	0	3.2	-0.2
FL JACKSONVILLE	79	0	7.3	0.9	MT KALISPELL	52	-2	1.1	-0.2	TX GALVESTON	81	0	4.2	-1.9
FL KEY WEST	83	0	7.2	1.0	MT MILES CITY	61	1	1.3	0.2	TX HOUSTON	79	0	1.1	-4.1
FL MIAMI	83	2	6.5	-1.6	MT MISSOULA	55	-1	0.7	-0.3	TX LAREDO	85	1	1.1	-2.4
FL ORLANDO	82	1	7.1	0.5	NE GRAND ISLAND	65	0	1.0	-1.5	TX LUBBOCK	73	2	0.7	-1.4
FL TALLAHASSEE	78	0	4.2	-2.3	NE LINCOLN	66	0	2.6	-0.3	TX MIDLAND	75	1	0.2	-1.9
FL TAMPA	82	1	3.0	-3.3	NE NORFOLK	63	0	2.9	0.8	TX SAN ANGELO	78	1	0.3	-2.8
GA WEST PALM BEACH	83	0	7.0	-2.3	NE NORTH PLATTE	63	1	0.2	-1.4	TX SAN ANTONIO	82	2	1.1	-2.6
GA ATHENS	73	0	5.7	2.1	NE OMAHA	65	-1	4.6	1.1	TX VICTORIA	82	2	3.6	-2.6
GA ATLANTA	75	0	8.6	5.4	NE SCOTT'SBLUFF	63	1	0.2	-0.9	TX WACO	80	1	2.2	-1.0
GA AUGUSTA	73	1	3.3	-0.2	NE VALENTINE	62	1	1.4	0.0	TX WICHITA FALLS	75	-1	1.7	-1.7
GA MACON	75	-1	2.8	-0.5	NV ELKO	57	-1	T	-0.5	UT BLANDING	---	---	0.9	0.0
GA SAVANNAH	77	0	8.4	3.2	NV ELY	59	2	0.2	-0.4	UT CEDAR CITY	65	1	0.2	-0.7
HI HILO	78	2	17.6	11.0	NV LAS VEGAS	84	4	0.0	-0.3	UT SALT LAKE CITY	67	2	0.5	-0.4
HI HONOLULU	81	1	2.1	1.5	NV RENO	65	5	T	-0.3	VT BURLINGTON	60	1	4.7	1.6
HI KAHULUI	81	2	1.3	0.9	NV WINNEMUCCA	62	2	0.1	-0.2	VA LYNCHBURG	69	1	4.1	0.9
HI LIHUE	80	1	0.7	-1.5	NH CONCORD	60	1	2.5	-0.6	VA NORFOLK	74	1	2.1	-2.2
ID BOISE	64	0	0.3	-0.3	NJ ATLANTIC CITY	66	-1	5.0	2.2	VA RICHMOND	70	0	2.4	-1.2
ID LEWISTON	63	-1	0.8	0.0	NM ALBUQUERQUE	70	1	0.8	0.0	VA ROANOKE	68	0	2.1	-1.0
ID POCATELLO	59	0	0.1	-0.6	NM CLOVIS	69	0	1.2	-0.7	WA COLVILLE	54	-4	0.4	-0.5
IL CAIRO	---	---	7.7	4.2	NM ROSWELL	74	3	0.1	-1.6	WA QUILLAYUTE	55	-2	5.3	-0.8
IL CHICAGO	63	-2	4.3	0.9	NY ALBANY	61	0	2.4	-0.8	WA SEATTLE-TACOMA	60	0	1.2	-0.8
IL MOLINE	63	-2	4.8	1.1	NY BINGHAMTON	58	-2	3.5	0.2	WA SPOKANE	58	-2	0.4	-0.3
IL PEORIA	64	-2	5.8	2.2	NY BUFFALO	62	-1	5.6	2.2	WA WALLA WALLA	63	-2	1.2	0.4
IL QUINCY	65	-2	2.3	-1.9	NY NEW YORK	68	0	2.6	-0.9	WA YAKIMA	59	-2	0.3	0.0
IL ROCKFORD	61	-2	5.4	1.7	NY ROCHESTER	61	-1	3.0	0.4	WV BECKLEY	64	2	1.6	-1.8
IL SPRINGFIELD	67	-1	1.5	-1.6	NY SYRACUSE	61	-1	4.6	1.3	WV CHARLESTON	67	0	1.4	-1.6
IN EVANSVILLE	69	-1	2.9	0.2	NC ASHEVILLE	68	1	3.2	-0.8	WV ELKINS	63	1	2.6	-0.6
IN FORT WAYNE	62	-2	6.0	3.5	NC CHARLOTTE	72	0	8.2	4.6	WV HUNTINGTON	67	-1	1.2	-1.8
IN INDIANAPOLIS	65	-2	3.4	0.7	NC GREENSBORO	69	-1	3.1	-0.6	WV PARKERSBURG	66	-2	2.4	-0.4
IN SOUTH BEND	62	-2	8.8	5.6	NC HATTERAS	76	1	6.1	0.4	WI GREEN BAY	59	0	5.6	2.5
IA DES MOINES	63	-2	5.0	1.9	NC NEW BERN	75	1	2.2	-3.6	WI LACROSSE	61	-1	7.0	3.5
IA DUBUQUE	59	-3	4.6	0.5	NC RALEIGH	71	0	2.2	-1.0	WI MADISON	60	0	6.0	3.0
IA SIOUX CITY	62	-1	2.8	0.3	NC WILMINGTON	75	0	2.2	-3.5	WI MILWAUKEE	62	0	4.1	1.3
IA WATERLOO	61	-1	2.2	-1.2	ND BISMARCK	57	-1	1.3	-0.1	WI WAUSAU	56	-1	8.5	4.6
KS CONCORDIA	67	0	2.7	-0.3	ND FARGO	57	-1	2.6	0.7	WI CASPER	61	3	0.3	-0.4
KS DODGE CITY	68	-1	0.5	-1.4	ND GRAND FORKS	55	-1	1.4	-0.6	WI CHEYENNE	60	2	T	-1.0
KS GOODLAND	64	0	0.1	-1.4	ND WILLISTON	55	-2	0.8	-0.6	WI LANDER	60	2	T	-0.8
KS TOPEKA	68	-1	3.9	0.4	OH AKRON-CANTON	62	-2	3.7	0.7	WI SHERIDAN	59	1	0.4	-0.8
KS WICHITA	71	0	2.9	-0.5	OH CINCINNATI	64	-3	3.2	0.3	PR SAN JUAN	82	0	5.4	-0.6
KY BOWLING GREEN	68	-2	4.0	0.8	OH CLEVELAND	63	-1	3.2	0.4					
KY JACKSON	68	2	3.7	0.6	OH COLUMBUS	65	-2	2.1	-0.6					
KY LEXINGTON	67	-2	3.4	0.2	OH DAYTON	64	-2	2.3	-0.1					
KY LOUISVILLE	69	-1	3.5	0.2	OH MANSFIELD	62	-3	4.1	1.0					
LA BATON ROUGE	78	1	1.5	-2.9	OH TOLEDO	62	-1	4.0	1.5					

Based on 1951-80 normals.

## National Agricultural Summary

September 28 - October 4, 1992

**HIGHLIGHTS:** Low temperatures early in the week brought additional frost to much of the northern Great Plains and upper Mississippi Valley, thus effectively ending the growing season there. Summer-like weather at midweek advanced crop maturity across much of the Corn Belt. Continued heavy rains over much of the Southeast further delayed field activities.

**SMALL GRAINS:** Dry weather in most regions of the country allowed winter wheat seeding to advance unhindered. Seeding reached 62 percent (%) complete in the 19 major producing States, compared with 61% last year and 60% for the 5-year average. Seeding progress was behind normal in the Mississippi and Ohio Valleys. Spring wheat, barley, and oats harvests were winding down in Montana and North Dakota.

**CORN:** Corn harvest increased, though still in the early stages, in the Corn Belt, and advanced further south. Harvest was 11% complete in the 17 major producing States, compared with 46% last year and 33% average. Sixty-six percent of the crop was fully mature, compared with 97% last year and 91% average. Crop condition remained mostly good and high temperatures across the Corn Belt late in the week benefited the crop.

**SOYBEANS:** Rains in the extreme Southeast hindered the beginning of the soybean harvest, while warmer, drier weather encouraged progress in the northern producing States. Harvest was 21% complete in the 19 major States, 16 percentage points behind last year and 12 points behind the average. Leaves were dropping on 81% of the acreage, compared with 83% last year and 79% average. Crop condition improved slightly with the arrival of warmer temperatures in the North. Crop condition ratings were mostly fair in Louisiana, Minnesota, and South Carolina, and good in the other major States. Velvet bean caterpillars were causing problems in soybeans in east-central and southern Georgia.

**OTHER FIELD CROPS:** Sugar beet harvest was active in the Rocky Mountains, Great Plains, and Pacific Northwest, while planting was underway in California. Fall potato harvest was advancing rapidly across the central and northern States. Dry bean harvest was progressing rapidly as well. Peanut digging was interrupted by rains in the Southeast, but digging advanced in Texas and Oklahoma. Flax harvest was in full swing in the North Central

States, and sunflower harvest was gaining momentum. Sweetpotato digging progressed in the Delta and East where weather conditions permitted.

**FRUIT AND NUTS:** Lemon harvest continued active in western and central Arizona and the California desert. Apple picking was active nationwide. Harvest was behind last year's pace but near average along the East Coast, average and ahead of average elsewhere. Pistachio harvest advanced in central and eastern Arizona. Peach harvest neared completion in the northeast. Cranberry harvest advanced in Oregon, New Jersey, and Massachusetts. Raisin, juice, wine, and table grape harvests continued in California. Wine grape harvest ended in Oregon, while Concord grape harvest started in the Finger Lake region of New York. Harvest of oranges, tangerines, and grapefruit started in Florida.

**VEGETABLES:** Pumpkin picking increased nationwide. Melon harvest continued in Arizona, and was in full swing in the Sacramento Valley. Onion digging was well along in the Rocky Mountains and advanced in the West Coast States and New York. Planting of fall broccoli and cauliflower was active in California's San Joaquin and Coachella Valleys. Processing tomato harvest was still active in a few areas of California, while wet conditions threatened remaining tomatoes in Ohio. Rain hampered planting and harvesting activities in Florida, particularly on the East Coast. Harvests of radishes, eggplant, peppers, snap beans, sweet corn, cucumbers, squash, and tomatoes were underway in the State. New Jersey vegetables remained in moderate supply. Planting and harvesting activities continued without delay in major vegetable regions of Texas.

**PASTURES AND LIVESTOCK:** Pastures across the eastern half and south western part the nation remained in generally good condition. Pastures in California, Utah, Nevada, and the Northwest continued to suffer from lack of moisture. Supplemental feeding continued in drought-stricken areas. Livestock were generally in good condition nationwide.

(Continued from p. 9)

**Grain sorghum** coloring and maturity were behind normal entering September. Below-normal temperatures in the High Plains impeded crop development there, however, crop prospects continued to look good. In the South, harvest progress continued at an increased rate and was ahead of last year and near the average. The end of the month saw harvest nearing completion in Texas and the South, and beginning in Kansas and Nebraska. As of October 4, 54% of the crop was mature, compared to 81% last year and 77% average. Harvest was 32% completed, compared to 52% last year and 40% average.

The arrival of September saw **rice** harvest beginning in California and continuing in the other major rice producing areas. Favorable conditions at mid-month allowed the harvest to progress ahead of normal. Rainy weather at the end of the month delayed the completion of harvest in Louisiana. The end of September saw the harvest completed in Texas and near completion in the other Southern States. As of October 4, the crop was 83% harvested, compared to 72% last year, and 72% average.

### Crop Progress

for the Week Ending October 4, 1992

#### GRAIN SORGHUM (Percent Coloring)

	Current	Last Wk	1991	Avg.
AR	100	100	100	100
CO	78	61	92	89
IL	95	93	100	97
KS	85	70	95	95
LA	100	100	100	100
MS	100	100	100	100
MO	97	93	100	97
NE	95	88	100	100
NM	94	89	98	NA
OK	100	91	100	100
SD	76	55	100	100
TX	92	86	97	98
12 States	90	80	97	NA
Excl. States with NA	90	80	97	97

NA - not available.  
These 12 States produced 98% of the 1991 grain sorghum crop.

#### GRAIN SORGHUM (Percent Mature)

	Current	Last Wk	1991	Avg.
AR	98	94	89	93
CO	32	25	58	47
IL	74	50	86	81
KS	30	15	70	60
LA	100	100	95	98
MS	100	100	100	100
MO	76	66	85	80
NE	37	15	99	94
NM	19	7	15	NA
OK	33	19	35	59
SD	42	22	100	95
TX	80	76	86	84
12 States	53	41	80	NA
Excl. States with NA	54	42	81	77

NA - not available.  
These 12 States produced 98% of the 1991 grain sorghum crop.

#### GRAIN SORGHUM (Percent Harvested)

	Current	Last Wk	1991	Avg.
AR	88	78	78	79
CO	2	0	12	9
IL	12	3	49	36
KS	5	2	30	20
LA	96	94	86	92
MS	91	80	72	81
MO	32	22	45	43
NE	5	1	57	33
NM	7	0	0	NA
OK	14	6	8	10
SD	0	0	68	30
TX	73	70	77	66
12 States	31	27	52	NA
Excl. States with NA	32	28	52	40

NA - not available.  
These 12 States produced 98% of the 1991 grain sorghum crop.

#### CORN (Percent Mature)

	Current	Last Wk	1991	Avg.
CO	50	32	64	69
GA	100	100	100	100
IL	72	46	100	96
IN	72	49	100	86
IA	84	59	100	100
KS	90	80	99	96
KY	85	77	95	90
MI	15	5	90	70
MN	45	20	94	95
MO	88	80	100	98
NE	81	37	99	96
NC	100	96	100	100
OH	45	25	100	63
PA	25	8	67	42
SD	45	25	100	96
TX	90	86	96	99
WI	27	17	88	81
17 States	66	44	97	91

These 17 States produced 94% of the 1991 corn crop.

#### CORN (Percent Harvested)

	Current	Last Wk	1991	Avg.
CO	4	0	6	6
GA	85	81	99	93
IL	6	4	77	46
IN	7	5	60	30
IA	8	3	25	30
KS	45	30	70	55
KY	36	20	61	47
MI	3	1	20	10
MN	2	0	24	22
MO	28	19	67	56
NE	5	3	46	28
NC	57	47	74	61
OH	5	1	44	20
PA	2	1	19	8
SD	6	0	49	27
TX	79	73	78	86
WI	1	0	21	15
17 States	11	7	46	33

These 17 States produced 94% of the 1991 corn crop.

#### WINTER WHEAT (Percent Planted)

	Current	Last Wk	1991	Avg.
AR	7	5	10	5
CA	0	0	0	0
CO	96	82	85	85
GA	4	2	7	5
ID	80	49	52	62
IL	10	3	28	23
IN	16	8	36	30
KS	70	45	70	70
MI	40	20	60	50
MO	13	6	18	25
MT	79	58	84	84
NE	98	86	95	92
NC	12	11	11	8
OH	13	3	45	31
OK	63	49	63	58
OR	36	24	36	30
SD	94	86	91	90
TX	64	49	52	60
WA	85	77	65	72
19 States	62	46	61	60

These 19 States produced 92% of the 1991 winter wheat crop.

#### SOYBEANS (Percent Dropping Leaves)

	Current	Last Wk	1991	Avg.
AL	42	25	39	47
AR	30	19	28	29
GA	55	37	68	54
IL	87	77	98	91
IN	97	79	100	86
IA	96	72	94	96
KS	85	75	95	80
KY	51	37	52	51
LA	59	55	31	49
MI	95	50	96	90
MN	97	80	98	99
MS	59	47	45	51
MO	76	63	69	70
NE	97	62	100	95
NC	27	21	38	26
OH	94	80	100	79
SC	13	10	19	16
SD	87	56	100	100
TN	45	30	44	53
19 States	81	64	83	79

These 19 States produced 95% of the 1991 soybean crop.

#### SOYBEANS (Percent Harvested)

	Current	Last Wk	1991	Avg.
AL	2	0	4	11
AR	9	6	10	5
GA	2	0	5	3
IL	34	18	65	50
IN	24	9	54	35
IA	25	5	31	48
KS	25	10	40	20
KY	7	3	5	7
LA	20	16	7	19
MI	10	0	25	10
MN	30	4	41	57
MS	13	9	8	13
MO	16	5	18	16
NE	30	10	65	42
NC	1	0	2	0
OH	16	3	56	30
SC	0	0	0	0
SD	18	0	69	56
TN	2	0	4	5
19 States	21	8	37	33

These 19 States produced 95% of the 1991 soybean crop.

**COTTON**  
(Percent Bolls Opening)

	Current	Last Wk	1991	Avg.
AL	63	55	89	91
AZ	100	98	93	96
AR	79	65	81	86
CA	100	100	99	99
GA	69	52	80	83
LA	97	96	89	96
MS	95	90	91	93
MO	69	47	88	89
NM	74	56	60	74
NC	81	57	96	92
OK	32	25	45	54
SC	87	80	89	88
TN	86	75	91	91
TX	39	31	54	52
14 States	63	55	72	72

These 14 States produced 99% of the 1991 cotton crop.

**COTTON**  
(Percent Harvested)

	Current	Last Wk	1991	Avg.
AL	8	3	35	41
AZ	28	22	14	14
AR	9	6	31	30
CA	15	5	1	3
GA	7	2	13	24
LA	29	16	33	47
MS	16	9	33	40
MO	4	1	40	34
NM	1	0	0	0
NC	3	0	19	13
OK	3	0	1	2
SC	5	3	17	20
TN	8	2	32	33
TX	23	21	23	19
14 States	18	13	23	23

These 14 States produced 99% of the 1991 cotton crop.

**RICE**  
(Percent Harvested)

	Current	Last Wk	1991	Avg.
AR	84	65	72	69
CA	55	35	25	23
LA	94	91	93	94
MS	78	68	55	76
TX	100	98	100	100
5 States	83	70	72	72

These 5 States produced 97% of the 1991 rice crop.

**Crop Condition**  
(Percent)

for the Week Ending October 4, 1992

**CORN**

State	VP	P	F	G	EX
CO	1	5	20	60	14
GA	0	0	15	71	14
IL	0	0	5	81	14
IN	0	0	16	72	12
IA	0	0	8	70	22
KS	0	2	9	32	57
KY	0	0	3	51	46
MI	5	10	25	45	15
MN	11	9	38	41	1
MO	0	0	11	71	18
NE	0	2	12	59	27
NC	0	0	33	61	6
OH	1	4	22	50	23
PA	0	4	20	52	24
SD	1	5	22	57	15
TX	0	4	21	46	29
WI	3	6	34	53	4
17 State	2	3	16	61	18
Prev Week	1	3	16	63	17
Prev Year	4	10	34	44	8

**SOYBEANS**

State	VP	P	F	G	EX
AL	0	0	4	68	28
AR	0	0	9	82	9
GA	0	0	9	90	1
IL	0	0	6	81	13
IN	0	1	17	75	7
IA	0	0	11	69	20
KS	0	0	9	43	48
KY	0	0	13	75	12
LA	0	4	57	39	0
MI	4	11	25	40	20
MN	7	11	50	31	1
MS	0	0	22	72	6
MO	0	0	17	74	9
NE	0	1	3	57	39
NC	0	3	33	59	5
OH	2	6	29	46	17
SC	0	1	55	44	0
SD	1	9	21	60	9
TN	0	0	10	78	12
19 State	1	2	19	64	14
Prev Week	1	3	20	63	13
Prev Year	3	12	42	39	4

**COTTON**

State	VP	P	F	G	EX
AL	0	0	7	93	0
AZ	0	0	30	57	13
AR	0	0	42	58	0
CA	0	0	0	60	40
GA	0	0	23	71	6
LA	0	13	60	27	0
MS	0	6	78	16	0
MO	0	0	33	59	8
NM	0	16	28	56	0
NC	0	8	47	45	0
OK	0	6	42	52	0
SC	0	3	71	26	0
TN	0	0	32	68	0
TX	2	8	60	29	1
14 State	1	6	49	40	4
Prev Week	1	5	52	38	4
Prev Year	0	5	34	55	6

**GRAIN SORGHUM**

State	VP	P	F	G	EX
AR	0	0	10	72	18
CO	4	6	14	65	11
IL	0	0	11	80	9
KS	0	7	10	44	39
LA	2	13	39	46	0
MS	0	0	21	73	6
MO	0	0	13	69	18
NE	0	1	19	51	29
NM	0	0	4	96	0
OK	0	0	2	92	6
SD	0	22	38	37	3
TX	0	0	19	64	17
12 State	0	4	16	56	24
Prev Week	0	2	18	58	22
Prev Year	10	13	34	37	6

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 2.65 in. north, 0.08 to 1.86 in. central, 0.59 to 1.71 south. Temperatures 4 to 7° below normal. Lows 42 to 50° north; 39 to 54° central; 50 to 57° south. Highs 77 to 83° north; 78 to 85° central; 82 to 86° south.

Days suitable for fieldwork 5.6. Soil moisture 16% short, 81% adequate, 3% surplus. Corn 76% harvested, 90% 1991, 85% avg. Sorghum 44% harvested, 60% 1991, 66% avg.; 27% fair, 65% good, 8% excellent. Peanuts 66% dug, 79% 1991, 72% avg.; 53% combined, 69% 1991, 60% avg.; 52% fair, 48% good. Pasture 19% fair, 62% good, 19% excellent. Livestock 7% fair, 79% good, 14% excellent. Primary activities: Scouting fields for insects, diseases; harvesting vegetables, hay, corn, sorghum, peanuts, cotton; plowing fields for small grain seeding; planting small grains, marketing cattle; repairing machinery; general care of livestock, poultry, catfish.

**ALASKA:** Record cold temperatures. Snow in varying amounts fell throughout the railbelt. Tanana Valley had a 6 in. accumulation, primarily from previous week. Elsewhere, temperatures warmed, enabling snow to melt. Highs, lows 1 to 14° below normal. Seasonal precipitation 4.09 in. drier than normal at Homer to 1.28 in. wetter than normal at Clearwater.

Days suitable for harvest, in the Matanuska Valley, Kenai Peninsula, of hay, grain 5.0. Topsoil, subsoil 20% short, 50% adequate, 10% surplus. Barley 85% harvested. Oats 30% harvested. Second crop hay 70% complete. Commercial potato harvest 75% complete. Potato digging 3.0. Frozen ground or snowcover limited further harvest of this year's crop.

**ARIZONA:** Sunny, warmer. Temperatures 1° below to 9° above normal. Extremes 35°; 92° higher elevations; 46°; 110° deserts.

Cotton bolls opening 100%, 93% 1991, 96% avg.; harvested 28%, 14%, 14% avg.; 30% fair, 57% good, 13% excellent; insects moderate to severe, central, severe, west; light to moderate, east; weeds light to moderate; Activities included insect monitoring, pesticide applications, defoliating, harvesting, statewide. Alfalfa good; weeds, insects light; harvest, moderate. Lemons harvested, west, central. Cantaloupes, watermelons, honeydews, green onions harvested, central. Apples, pistachio, squash, garlic, lettuce, east. Chili peppers harvested central, east. Pasture, range 92% of normal. Cattle, calves, good north, mostly good central, southeast. Stockwater, soil moisture, adequate, north, central, mostly adequate southeast. Range feed supplies average to above average, statewide. Insect damage, light.

**ARKANSAS:** Temperatures below normal, no significant rainfall. Temperatures 34°; 84°. Rainfall none to 0.02 in.

Days suitable for fieldwork 6. Soil moisture 23% short, 77% adequate. Main farming activities: Defoliating cotton, applying herbicide to soybeans, irrigating soybeans, wheat seedbed preparation, harvesting cotton, milo, corn, rice, hay, planting wheat, fall forage planting, working cattle. Cotton harvest continued. Maturity remained behind schedule. Cotton gins beginning to run full time. As of October 1, the cotton classing office reported 10,985 bales of Arkansas cotton had been classed. Soybean harvest gaining momentum. Early harvest yields reported mostly good. Rice harvest progressed at a steady pace. Yields reported

above average in east central. Grain sorghum harvest winding down. Corn harvest nearing completion; 73% good, 27% excellent; harvested 91%, 94% 1991, 93% avg. Livestock good. Flies a problem in west central. Pastures mostly good. Pastures were supplying average forage for herds. Hay harvest continued.

**CALIFORNIA:** High pressure over north at start of week. By midweek, a cold front brought cooler weather, some precipitation to north.

Field activities good progress, mostly open weather. Rice harvest full swing; stubble burning, straw baling, discing followed. Cotton defoliation winding down most areas, harvest gaining momentum. Alfalfa green chopped, sprayed worms. Planting sugarbeets. Grain corn, silage corn, dry beans, safflower, sugarbeets, sunflowers harvested. Field preparation fall seeded small grains, forage crops. Seeding wheat, oats just underway. Alfalfa hay, sudan grass harvests normal. Harvest raisin, juice, wine, table grapes. Fresno raisin producers picked up, boxed most of crop; only 4% still in field. Harvest walnuts, pistachios, almonds progressed. Some areas almond harvest completed, post harvest irrigation began. Fresno County peach, plum harvests complete. Pruning began almond, prune trees. Granny Smith apples, Fuji apples, pomegranates harvested, packed. Persimmons, dates harvested. Pineapple quince harvest winding down. Olive harvest full swing. Butte County high winds vine damage kiwi plants, scarring fruit. Riverside County desert lemon, grapefruit, avocado harvests continued. Valencia orange harvest neared completion. Strawberry harvest advanced Westside area. Picking active central coast, very good demand, some production diverted to processors. Warm weather benefitted fall vegetable plantings. Broccoli moderate, cauliflower moderate to fairly light, variable quality central coast. Planting fall broccoli, cauliflower active San Joaquin, Coachella valleys, complete Blythe area. Carrots fairly light central district. Celery fairly heavy, good quality Salinas-Watsonville, variable quality Santa Maria. Iceberg, leaf, Romaine lettuce central coast moderate, variable quality. Summer melon shipments heavy Sacramento Valley, steady Westside area, desert harvest nearly over. Fall onion harvest began Tulelake-Butte Valley, summer onion volume started to decline central, southern districts. Sweet potato movement steady central valley. Processing tomato harvest still active few areas, ground work commenced for next year's crop. Fresh market tomato harvest continued, fall plantings progressing well. Other vegetables harvested: beans, sweet corn, cucumbers, peas, peppers, various oriental vegetables. Range, pasture conditions continued decline. Feed poor, little nutrient value. Conditions poor to very poor. Few pockets fair. Fire danger high. Supplemental feeding active most areas. Springs, ponds dry. Ranchers bringing cattle in rather than water on range. Some fall calving underway.

**COLORADO:** Dry weather prevailed all week with almost no precipitation. September precipitation much below normal. Temperatures 1 to 3° above normal in most of State with a few reports 3 to 5° above normal along Front Range.

Days suitable for fieldwork 6.8. Soil moisture 10% very short, 44% short, 44% adequate, 2% surplus. Alfalfa 4th cutting 16%, 31% 1991, 19% avg. Oats harvested 96%, 93% 1991, 94% avg. Spring wheat harvested 94%, 73% 1991, 89% avg. Sorghum mature 32%, 58% 1991, 47% avg. Dry beans harvested

69%, 74% 1991, 67% avg. Fall potatoes harvested 75%, 45% 1991, 49% avg. Dry onions harvested 81%, 81% 1991, 74% avg. Corn mature stage 50%, 64% 1991, 69% avg.; silage harvested 86%, 85% 1991, 85% avg.; 1% very poor, 5% poor, 20% fair, 60% good, 14% excellent. Sugarbeets harvested 5%, 4% 1991, 4% avg. Winter Wheat seeded 82%, 54% 1991, 61% avg; emerged 51%. Livestock mostly good. Pasture, range feed good.

**FLORIDA:** Temperatures below normal, rainfall above normal. Temperatures 4 to 6° below normal north, 1 to 3° below normal central Peninsula, 1 to 2° above normal southeast. Rainfall 1.00 to 3.00 in. Panhandle, 3.00 to 9.00 in. northern Peninsula, 1.00 to 4.00 in. central, south. Rainfall 0.50 to 8.00 in. above normal north, 1.00 to 3.00 in. above normal central, near normal south.

Soil moisture mostly adequate to surplus throughout State. Wet weather slowing start of cotton harvest. Excess rain caused considerable boll rot on earliest planted cotton. Later planted cotton not affected as much. Peanut harvest, haymaking active, weather permitting. Tobacco marketing season winding down. Sugarcane planting active. Soybeans, sugarcane making good progress. Rain all citrus areas several days. Moisture adequate to surplus. Lakes, ponds, streams at high levels. Early maturing fruit showing color break. Harvest of Navels, K-Early Citrus fruit, Robinson, Sunburst tangerines, white, colored grapefruit all underway. Care-taking activities limited by wet conditions. Crop condition good throughout major vegetable producing areas. Rain received all areas, hampering planting, harvesting, particularly East Coast. Harvesting started on radishes, eggplant, peppers. Harvest continues; snap beans, sweet corn, cucumbers, squash, tomatoes. State's pastures fair to excellent. Pasture ratings, 25% fair, 45% good, and 30% excellent. State's cattle herds mostly good.

**GEORGIA:** Rain 2 to 4 days, mostly 1.00 to 2.00 in. local areas, extreme southeast over 10.00 in. Temperatures 3 to 7° below normal. Warmest highs middle 70s north to upper 80s south. Coolest lows northeast mountains upper 30s, upper 40s central, low 50s south.

Days suitable for fieldwork 4.7. Soil moisture 17% short, 70% adequate, 13% surplus. Corn harvest still 2 weeks behind normal. Cotton harvest pace beginning to pick up. Sorghum 9% fair, 91% good; 52% harvested for grain, 66% 1991, 62% avg.; harvest active last week. Peanuts 32% fair, 68% good; 67% dug, 81% 1991, 79% avg.; 50% threshed, 66% 1991, 64% avg.; cool weather slowing development late planted fields. Velvet bean caterpillars causing problems in soybeans east central, southern areas. Wheat 13% fair, 82% good, 5% excellent; 2% emerged, 1% 1991, 2% avg. Rye 20% planted, 20% 1991, 20% avg. Other small grains 23% fair, 70% good, 7% excellent; 12% planted, 12% 1991, 12% avg. Vegetables 5% poor, 35% fair, 60% good. Apples 1% poor, 22% fair, 77% good; 74% harvested, 80% 1991, 77% avg. Pecans 13% very poor, 11% poor, 73% fair, 3% good; 3% harvested, 6% 1991, 2% avg. Hay, pastures fair to mostly good. Cattle, hogs good. Other activities include harvesting hay, renovating pastures, defoliating cotton, harvesting early fall vegetables.

**HAWAII:** Warm, sunny weather with some showers were generally favorable for crop development. Increased sunshine was beneficial to most orchard crops. Some areas required normal irrigation to maintain adequate growth. Winds 5 to 20 mph. Rainfall none to 2.50 in.

Days suitable for fieldwork 7.0. Favorable weather allowed farmers on Oahu, Kauai to continue clean up efforts after hurricane winds on September 11th damaged crops. On Kauai, inadequate water supplies, heavy clean up

delaying normal farming activities. Taro farmers forecast slow crop progress with heavy leaf stripping, limited water availability. Banana, papaya production lower. Sweet corn production light to moderate. Watermelon season completed.

**IDAHO:** Temperatures 0 to 11° above normal. Precipitation fell in the south with the greatest amount in Rupert which received 0.84 in.

Days suitable for fieldwork 7. Soil moisture 36% very short, 26% short, 38% adequate. Winter wheat emerged 34%, 21% 1991, 23% avg. Potato harvest 77%, 43% 1991, 52% avg. Potato good. Third cutting alfalfa 95%, 78% 1991, 87% avg. Sugarbeet harvested 19%, 18% 1991, 16% avg. Dry bean harvest 86%, 84% 1991, 90% avg. Onion harvest 96%, 69% 1991, 77% avg. Field corn for silage 88%, for grain 18%. Sweet corn for processing 99% harvested. Apple harvest 71%, 29% 1991, 41% avg. Irrigation water supplies 36% very poor, 23% poor, 17% fair, 24% good. Activities: 3rd cuttings of alfalfa, harvesting of sugarbeets, onions, dry beans, potatoes, moving cattle off ranges. Pasture, range 46% of normal. Livestock good.

**ILLINOIS:** Mild days accompanied by cool nights were common last week, as fall-like weather prevailed. Some frost, near freezing conditions noted, as temperatures in the northwest were reported in the upper 20s. Temperatures low 50s to around 60°, 2 to 5° below normal. No precipitation.

Days suitable for fieldwork 5.5. Soil moisture 10% short, 86% adequate, 4% surplus. Soybeans turning yellow 97%, 100% 1991, 98% avg. Corn dented 99%, 100% 1991, 100% avg. Winter wheat seeded 1%, 5% 1991, 5% avg. Alfalfa third cutting 98%, 100% 1991, 100% avg. Pasture 88% of normal.

**INDIANA:** Temperatures 1 to 6° below normal. Highs upper 60s to lower 70s. Lows upper 30s to mid 40s. Rainfall little to none across the State.

Days suitable for fieldwork 5.1. Topsoil 4% short, 87% adequate, 9% surplus. Subsoil 8% short, 87% adequate, 9% surplus. Alfalfa third cutting 93%. Tobacco harvest 93%, 95% 1991, 94% avg. Soybeans mature 80%, 94% 1991, 68% avg.

**IOWA:** Temperatures 1 to 3° above normal. Extremes 26°; 89°. Killing freeze north central, northeast 29th; scattered frost elsewhere. Very dry, sunny; no precipitation.

Days suitable for fieldwork 5.9. Topsoil 87% adequate, 13% surplus. Subsoil 89% adequate, 11% surplus. Pasture 15% fair, 65% good, 20% excellent. Corn in or past dent 99%, 100% 1991, 100% avg. Third cutting alfalfa 92% harvested, 100% 1991, 100% avg. Winter wheat seeded 45%, 46% 1991, 58% avg. Livestock generally good condition with some foot rot noted.

**KANSAS:** Temperatures 5° above normal to 2° below normal over State. Significant precipitation was received only in central, eastern areas of State.

Days suitable for fieldwork 6.5. Surface moisture 45% short, 54% adequate, 1% surplus. Subsurface moisture 14% short, 82% adequate, 4% surplus. Principle farm activities are fall harvest, wheat planting. Row crops mostly good to excellent. Corn, sorghum progress still behind normal. Open weather allowed wheat seeding, fall harvest to make good progress. Pastures for State are still good. Rangeland in dryer western districts fair. Forage, stockwater adequate for State, with very few shortages.

**KENTUCKY:** Week began very cool, overnight lows mid, upper 30s. Temperatures rebounded, lows in 40s, highs upper 70s. Average temperatures upper 50s, 3 to 4° below normal. Rainfall light, scattered, many locations received no rain. A few southern locations did receive up to 1.00 in.

Days suitable fieldwork for 5.4. Soil moisture 1% very short, 6% short, 93% adequate. Corn harvest accelerated, progress well behind 1991, avg. Yields excellent, high moisture content of grain

slowing harvest. Soybean generally escaped near-freezing temperatures. Leaves still entirely green 15% crop. Burley 8% stripped, 9% 1991, 5% avg. Conditions housed tobacco fair to good, houseburn especially evident in early cut tobacco. Fall wheat 19% seeded. Pastures good to excellent.

**LOUISIANA:** Temperatures 2.9° to 6.6° below normal. Extremes 43°; 86°. Rainfall none.

Days suitable for fieldwork 5.6. Soil moisture 2% very short, 18% short, 75% adequate, 5% surplus. Hay 92% second cutting, 86% 1991, 87% avg. Pecans 0% harvested, 10% 1991, 2% avg. Rice 99% ripe, 97% 1991, 99% avg. Second crop harvesting began, extreme southwest, yields low. Soybeans 86% turning color, 51% 1991, 73% avg. Wheat 1% planted, 4% 1991, 2% avg. Sugarcane 20% poor, 49% fair, 31% good; 59% planted, 89% 1991, 86% avg.; 1% harvested, 1% 1991, 1% avg. Planting slow due to bowed stalks. Sweet potatoes 2% poor, 16% fair, 82% good; 52% harvested, 65% 1991, 68% avg. Livestock 24% fair, 71% good, 5% excellent. Marketing of spring calves active. Pastures 1% poor, 7% fair, 92% good. Vegetables 3% very poor, 3% poor, 68% fair, 26% good.

**MARYLAND & DELAWARE:** **MARYLAND:** Rainfall 0.98 in. Temperature 60.2°, normal 62°. Extremes 28°; 80°.

Days suitable for fieldwork 5.0. Topsoil 84% adequate, 16% surplus. Subsoil 6% short, 83% adequate, 11% surplus. Corn good; 75% mature, 98% 1991, 87% avg. Grain harvested 15%, 52% 1991, 48% avg.; silage harvested 61%, 94% 1991, 89% avg. Soybeans fair to mostly good; 65% turned, 85% 1991, 71% avg.; 41% shedding leaves, 62% 1991, 45% avg. Sorghum good; 89% mature, 88% 1991; 1% harvested, 1% 1991. Pastures, cattle, excellent. Alfalfa fourth cutting 75%, other hay fourth cutting 28%. Apples harvested 52%, 64% 1991, 64% avg. Lima bean, sweet potato harvests active; few small grains seeded behind silage.

**DELAWARE:** Precipitation 1.53 in. Temperature 59.7°, normal 62.8°. Extremes 37°; 80°.

Days suitable for fieldwork 6.2. Topsoil 78% adequate, 22% surplus. Subsoil adequate. Soybeans good; 71% turned, 66% 1991, 61% avg.; 44% shedding leaves, 36% 1991, 31% avg. Corn fair to good, grain drying slowly; 91% mature, 100% 1991, 95% avg. Grain harvested 17%, 71% 1991, 59% avg.; silage harvested 93%, 100% 1991, 95% avg. Sorghum 30% mature. Alfalfa fourth cutting 82%; other hay fourth cutting 82%, supplies mostly adequate. Apple picking 56% complete, 63% 1991, 56% avg. Lima bean harvest active. Pastures mostly excellent.

**MICHIGAN:** Temperatures 1° above to 3° below normal. Extremes 27°; 87°. Precipitation none to 0.64 in. across State.

Days suitable for fieldwork 6.5. Soil moisture 80% adequate, 20% surplus. Hay 75% third cutting, 90% 1991, 80% avg.; 1% very poor, 9% poor, 30% fair, 45% good, 15% excellent. Corn silage 30% harvested, 85% 1991, 70% avg. Dry beans 95% mature, 100% 1991, 80% avg.; 70% harvested, 90% 1991, 55% avg.; 6% very poor, 14% poor, 40% fair, 30% good, 10% excellent. Potatoes 70% harvested, 75% 1991, 70% avg. Sugarbeets 15% harvested, 15% 1991, 5% avg. Pasture 80% of normal. Major activities: Chopping corn, making hay, planting wheat, harvesting field crops, fruit, vegetables.

**MINNESOTA:** Temperatures near normal to 4° above normal. Extremes 22°; 91°. Precipitation none to 0.04 in., 0.33 to 0.57 in. below normal. Greatest weekly total 0.18 in.

Days suitable for fieldwork 6.4. Topsoil 2% very short, 14% short, 74% adequate, 10% surplus. Spring wheat 95% combined, 99% 1991, 99% avg. Corn 45% mature, 94% 1991, 95% avg.; 2% picked/combined 24% 1991, 22% avg.; 45% silage cut, 88% 1991, 84% avg.; 28% moisture content 23% 1991, 24% avg. Soybeans 97% dropping leaves, 98% 1991, 99% avg.; 65% mature, 84% 1991, 93% avg.;

30% combined, 41% 1991, 57% avg.; 12% moisture content, 41% 1991, 12% avg. Sugarbeets 19% harvested, 26% 1991, 21% avg. Potatoes 65% harvested, 67% 1991, 76% avg. Flax 35% harvested, 98% 1991, 94% avg. Dry edible beans 74% harvested, 98% 1991, 91% avg. Sweet corn 95% harvested, 99% 1991, 99% avg. Hay, small grain 52% stubble plowed, 85% 1991, 81% avg. Soybean 7% very poor, 11% poor, 50% fair, 31% good, 1% excellent. Corn 11% very poor, 9% poor, 38% fair, 41% good, 1% excellent.

**MISSISSIPPI:** Temperature 65°, 5.6° below normal. Extremes 37°; 88°. State received almost no rainfall last week. Only the southeast, coastal regions received a trace of rain. State avg.; 0.01 in., 0.76 below normal. Soil temperature 70°.

Days suitable for fieldwork 5.8, 6.2 1991, 4.9 avg. Soil moisture 7% short, 89% adequate, 4% surplus. Corn harvested 72%, 72% 1991, 77% avg.; 7% poor, 27% fair, 55% good, 11% excellent. Cotton open bolls 95%, 91% 1991, 93% avg.; 16% harvested, 33% 1991, 40% avg.; 6% poor, 78% fair, 16% good. Peanuts harvested 78%, 87% 1991, 85% avg. Rice harvested 78%, 55% 1991, 76% avg.; 35% fair, 61% good, 4% excellent. Sorghum harvested 91%, 72% 1991, 81% avg.; 21% fair, 73% good, 6% excellent. Soybeans turning color 84%, 76% 1991, 77% avg.; shedding leaves 59%, 45% 1991, 51% avg.; 13% harvested, 8% 1991, 13% avg.; 22% fair, 72% good, 6% excellent. Sweet potatoes harvested 55%, 69% 1991, 60% avg.; 90% fair, 10% good. Wheat planted 13%, 16% 1991, 14% avg.; 8% emerged, 9% 1991, 8% avg.; 58% fair, 42% good. Hay harvested 97%, 95% 1991, 92% avg. Pecans 55% very poor, 33% poor, 4% fair, 8% good. Livestock 1% fair, 80% good, 19% excellent. Pasture 96% of normal. Activities: Harvesting most crops.

**MISSOURI:** Temperatures 3° below normal except southwestern, southeastern portions up to 9° below normal. Rainfall virtually none except minor amounts localized southeastern areas.

Days suitable for fieldwork 6.0. Topsoil 9% short, 88% adequate, 3% surplus. Subsoil 17% short, 81% adequate, 2% short. Dry, sunny weather helping crop maturing process, harvesting conditions. Corn harvest varies 14% or less northwestern, northeastern districts to 87% southeast. Soybean harvest varies from 8% southwestern, southeastern districts to over 15% in all central, northern districts. Sorghum harvest ranges around 7% northern districts to 57% southeast. Pastures 1% very poor, 3% poor, 33% fair, 56% good, 7% excellent.

**MONTANA:** Temperatures 5 to 11° above normal. Precipitation was well below normal with most areas receiving no precipitation.

Days suitable for fieldwork 6.7. Topsoil 61% short, 39% adequate. Subsoil 62% short, 38% adequate. Spring wheat 93% harvested, 100% 1991, 100% avg. Barley 96% harvested, 100% 1991, 100% avg. Oats 97% harvested, 100% 1991, 100% avg. Corn for silage 90% harvested, 91% 1991, 91% avg. Dry bean 96% harvested, 97% 1991, 90% avg. Sugarbeets 12% harvested, 9% 1991, 17% avg. Potatoes 50% harvested, 44% 1991, 62% avg. Pasture, range feed conditions 80%, improved 4 points from last week. Movement of cattle, calves from summer ranges 31%, sheep, lambs 30%.

**NEBRASKA:** Temperatures 2 to 6° above normal. No rain. Row crops up to 3 weeks behind normal.

Days suitable for fieldwork 6.7. Topsoil 38% short, 61% adequate, 1% surplus. Subsoil 6% short, 90% adequate, 4% surplus. Corn 2% poor, 12% fair, 59% good, 27% excellent; 81% mature, 99% 1991, 96% avg.; 5% harvested, 46% 1991, 28% avg. Soybean 1% poor, 3% fair, 57% good, 39% excellent; 97% dropping leaves, 100% 1991, 95% avg.; 30% harvested, 65% 1991, 42% avg. Sorghum 1% poor, 19% fair, 51% good, 29% excellent; 95% coloring, 100% 1991, 100% avg.; 37% mature, 99% 1991, 94% avg.; 5% harvested, 57% 1991, 33% avg. Winter wheat 23% fair, 66% good, 11% excellent; 98% sown, 95% 1991,

92% avg.; 80% emerged, 68% 1991, 68% avg. Pasture, range 97% of normal.

**NEVADA:** Strong high pressure ridge brought warm sunny days, clear nights early in week. Later, a low pressure system lowered into the eastern Pacific bringing gusty winds. Strong winds buffeted much of the State 1st with widely scattered thunderstorms in the northern third. Storms continued into Oct. 2 leaving some light rain. The storm system lowered temperatures significantly across northern, central areas. Extremes 24°; 104°.

Irrigation water supplies from surface sources very short to none; from wells generally adequate. Potato digging 55% complete, 65% 1991, 50% avg. Onion harvest 75% complete, 85% 1991, 70% avg. Third cutting alfalfa hay 80% complete 75% 1991, 80% avg. Southern areas completing 5th, 6th cutting. Alfalfa seed harvest 90% complete, 100% 1991, 90% avg. Winter grain, garlic planting active. Pastures, ranges very poor condition most areas. Livestock movement to winter pastures early due to drought. Supplemental feeding started already many areas.

**NEW ENGLAND:** Precipitation none to 0.11 in. in NH, VT, MA, and RI; CT 0.03 to 0.27 in.; ME none to 0.60 in. Temperatures mid 40s to low 50s north, high 40s to high 50s south; 1 to 5° below normal. Maximum temperatures mid 60s to mid 70s north, low to high 70s south. Minimums mid 20s to low 30s north, low 20s to low 30s south.

Days suitable for fieldwork 6. Soil moisture 9% short, 79% adequate, 12% surplus. Available grazing 15% short, 79% adequate, 6% surplus. Fieldwork progress 5 days behind schedule. Maine potatoes 85% harvested, 61% 1991, 63% avg.; good to excellent. RI potatoes 68% harvested, 83% 1991, 82% avg.; excellent. MA, CT potatoes 90% harvested, 84% 1991, 67% avg.; good. ME oats 85% harvested, 100% 1991, 94% avg.; good. Field corn 44% harvested, 64% 1991, 56% avg.; good. CT, MA sweet corn 98% harvested, 100% 1991, 100% avg.; good. Second cut hay 95% harvested, 100% 1991, 99% avg.; good. Third cut hay 71% harvested, 78% 1991, 78% avg.; good. Apples 55% harvested, 71% 1991, 70% avg.; color good, size medium; good. CT, MA peaches 97% harvested, size medium; good. Connecticut pears 65% harvested, size medium; good. Massachusetts cranberries 25% harvest; good. Major farm activities: Harvesting field corn, vegetables, sweet corn, tomatoes, potatoes, apples, peaches, pears, cranberries, haying.

**NEW JERSEY:** Temperatures much below normal. Extremes 28°; 79°. Rainfall none north, 0.02 in. central, 0.17 in. south. Heaviest 24 hour total 0.32 in. on 28th, 29th. Estimated soil moisture, in percent field capacity, averaged 84% north, 84% central, 91% south. Four inch soil temperatures 53° north, 56° central, 59° south.

Soil moisture generally adequate. Cucumbers, leeks, okra, tomatoes, sweet corn, in light volume. Beets, cabbage, beans, eggplant, endive, escarole, greens, lettuce, green onions, parsley, peppers, squash, spinach, turnips, potatoes, in moderate supply. Pumpkins, apples, in good volume. Peach marketing finishing. Harvesting sweet potatoes. Harvest of corn silage nearing completion. Harvesting corn for grain in central, southern areas. Soybean harvest beginning in southern areas. Starting to plant cover crops. Pasture good overall.

**NEW MEXICO:** Dry weather prevailed. No measurable rainfall. Temperatures a couple of degrees above normal north, generally a degree or two below normal south.

Days suitable for fieldwork 6.9. Soil moisture 65% short, 35% adequate. Some light freeze damage in higher elevations. Crop conditions: Alfalfa 4% poor, 29% fair, 60% good, 7% excellent; most on last cutting if not already finished. Corn 20% fair, 75% good, 5% excellent; harvest active.

Irrigated wheat 25% fair, 75% good. Dryland wheat 18% poor, 27% fair, 55% good. Wheat planting is 95% complete. Lettuce reported good, harvest started. Chile ranged from poor to excellent; mostly good with green harvest ending, red harvest increasing. Pecans fair to good, mostly good. Apples mostly good. Cattle, sheep fair to good. Range and pasture 86% of normal.

**NEW YORK:** Temperatures close to normal despite wide day to day variations. Mild at beginning, end of week, cool during midweek. Frost, freezing temperatures widespread. Extremes 24°; 80°. Precipitation very light. Most areas received under 0.25 in. All fell during the first 3 days.

Days suitable for fieldwork 5.6. Soil moisture adequate to surplus. Pasture 94% of normal. Corn fair to mostly good. Silage harvest 17% complete, 64% 1991, 47% avg. Hay mostly fair to good. Third cutting alfalfa 73% finished, 86% 1991, 78% avg. Potato harvest continued active. Some areas still too wet. Dry bean harvest picking up momentum. Progress behind normal due to late maturing crop. Grape harvesting active. Large wineries in Finger Lakes region began harvesting Concord grapes. Excellent weather in Lake Ontario region allowed growers to catch up with the apple harvest, improved the quality of the crop. Apple picking continued very active in all growing regions. Vegetable harvesting continued, was rapidly drawing to a close due to freezing temperatures. Oswego County onion harvest 40% complete. Orange County onion harvest continued. Crop conditions excellent. Cabbage, cauliflower, broccoli harvesting winding down.

**NORTH CAROLINA:** Precipitation 4.60 in. at Charlotte to no precipitation at Siler City, Raleigh-Durham.

Days suitable for fieldwork 5.5. Soil moisture 2% very short, 15% short, 78% adequate, 5% surplus. Crop condition: Pasture 1% poor, 31% fair, 66% good, 2% excellent. Corn 33% fair, 61% good, 6% excellent. Cotton 8% poor, 47% fair, 45% good. Peanuts 52% fair, 48% good. Soybeans 3% poor, 33% fair, 59% good, 5% excellent. Hay 26% fair, 72% good, 2% excellent. Sweet potatoes 2% poor, 52% fair, 43% good, 3% excellent. Apples 12% poor, 35% fair, 53% good. Sorghum 40% fair, 60% good. Cotton open bolls 81%, 96% 1991, 92% avg. Corn mature 100%, 100% 1991, 100% avg. Soybeans leaf drop 27%, 38% 1991, 26% avg. Flue-cured tobacco harvested 97%, 96% 1991, 93% avg. Burley tobacco harvested 76%, 97% 1991, 91% avg. Corn for silage harvested 81%, 93% 1991, 92% avg. Corn for grain harvested 57%, 74% 1991, 61% avg. Sorghum for grain harvested 31%, 51% 1991, 43% avg. Apples harvested 70%, 81% 1991, 72% avg. Hay, roughage supplies 1% short, 91% adequate, 8% surplus. Hay second cutting 95%. Hay third cutting 60%. Major activities: Harvesting, curing, marketing tobacco, cutting corn for silage, harvesting corn for grain. Other activities: harvesting fruits, vegetables; harvesting sorghum; digging sweet potatoes; seeding small grains; digging peanuts; defoliating cotton; tending livestock; equipment repair; general farm maintenance.

**NORTH DAKOTA:** Warm, dry. Temperatures 4 to 8° above normal. Extremes 17°; 95°, both west central, south central. Precipitation none to 0.05 in.

Days suitable for fieldwork 6.9. Topsoil below last year, slightly above average. Topsoil 19% very short, 50% short, 31% adequate. Subsoil 15% very short, 49% short, 36% adequate. Small grain harvest nearly complete. Spring wheat 97% combined, 100% 1991, 100% avg.; durum 93% combined, 100% 1991, 100% avg.; barley 99% combined, 100% 1991, 100% avg.; oats 100% combined, 100% 1991, 100% avg. Winter wheat 89% planted, 95% 1991, 94% avg.; rye 89%, 96% 1991, 95% avg. Late season crop harvest behind last year, average. Frost damage reported in many areas. Immature crops were hurt by frost in many areas. Corn for grain 11% very poor, 7% poor, 65% fair,

17% good; 1% harvested, 62% 1991, 29% avg. Corn for silage 11% poor, 49% fair, 40% good; 77% cut, 98% 1991, 94% avg. Flax 32% fair, 63% good, 5% excellent; 67% combined, 96% 1991, 94% avg. Potatoes 100% good; 81% dug, 86% 1991, 89% avg. Soybeans 2% poor, 39% fair, 59% good; 34% combined, 81% 1991, 70% avg. Dry beans 7% poor, 22% fair, 71% good; 51% combined, 97% 1991, 91% avg. Sunflower 13% poor, 34% fair, 53% good; 2% harvested, 29% 1991, 25% avg. Sugarbeets 100% good; 23% lifted, 46% 1991, 31% avg. Range, pasture 65% of normal. Stockwater supplies 10% very short, 34% short, 56% adequate.

**OHIO:** Bright mild days, cool clear nights common. Dry down of grains, harvesting made good progress under this weather regime. Temperatures 3 to 5° below normal with average readings from the low to mid 50s. Highs mid 60s to near 70°, lows from the upper 30s to the mid 40s. Some frost, near-freezing conditions were noted during the week with coldest readings on the morning of the 30th. Mercuries ranged mainly in the mid 30s with some upper 30s along the Lake Erie, while a few isolated locales approached freezing. Most areas were dry; a few areas received a trace.

Days suitable for fieldwork 6.5. Topsoil 7% short, 84% adequate, 9% surplus. Hay 4% poor, 30% fair, 51% good, 15% excellent. Pasture 4% poor, 25% fair, 54% good, 17% excellent. Potatoes harvested 70%, 78% 1991, 72% avg. Processing tomatoes harvested 85%, 98% 1991, 98% avg. Some fields of processing tomatoes may be abandoned due to wet conditions hampering harvest. Corn harvested for silage 60%, 95% 1991, 72% avg. Another week of sunny but cool weather provided good conditions for fieldwork.

**OKLAHOMA:** Temperatures 10° below normal southeast to normal Panhandle. Precipitation none statewide.

Days suitable for fieldwork 6.6. Topsoil 38% short, 62% adequate. Subsoil 7% short, 93% adequate. Wheat 63% planted, 63% 1991, 58% avg.; 33% up to stand, 27% 1991, 26% avg. Cotton 6% poor, 42% fair, 52% good; 32% open bolls, 45% 1991, 54% avg. Sorghum 2% fair, 92% good, 6% excellent; 33% mature, 35% 1991, 59% avg.; 14% harvested, 8% 1991, 10% avg. Peanuts 42% fair, 58% good; 55% mature, 80% 1991, 73% avg.; 24% harvested, 12% 1991, 6% avg. Soybeans 56% mature, 49% 1991, 39% avg.; 22% harvested, 18% 1991, 8% avg. Corn 85% harvested, 88% 1991, 84% avg. Pastures 101%. Cattle good; marketings average, prices mixed.

**OREGON:** Temperatures 3 to 4° above normal. Precipitation 0.50 in. most areas, except northeast, southeast areas 0.20 in. or less.

Soil moisture 94% short, 6% adequate. Winter wheat 36% planted, 15% emerged. Winter barley 41% planted. Field preparation for fall seeding in cereal grains continues. Field corn for grain, silage being harvested. Hay harvest continued, Willamette Valley, lower elevations east of the Cascades. Sugarbeet harvest beginning, Malheur County. Apple harvest nearly complete, hazelnut harvest continues; Willamette Valley. Hood River Valley apple harvest complete with exception of a few Granny Smith's. Cranberry harvest continues, steady pace, good quality, size, color; southern coast. Wine grape harvest complete. Pruning, training canberries. New rootings of strawberry runners taking hold. Potato, onion harvest continues, statewide. Some sweet corn continues to be harvested, garlic being planted; Willamette Valley. Carrot processing underway. Livestock good. Stockwater continues to be scarce, eastern areas. Some dryland pastures greened up, Willamette Valley. Cattle continue coming off federal Oranges, forests. Weanings, cow processing three weeks ahead of schedule. Hay, protein supplements continue being fed. Range, pasture 48% of normal.

**PENNSYLVANIA:** A cool wet week over the State with well below normal precipitation. Temperature 57°, 3° below normal. Extremes 27°; 80°. Precipitation 0.08 in., 0.73 in. below normal.

Days suitable for fieldwork 5. Soil moisture 4% short, 85% adequate, 11% surplus. Ensilage corn harvested 30% complete, 80% 1991. Soybean harvest 5% complete, 8% 1991; 3% very poor, 6% poor, 21% fair, 49% good, 21% excellent. Wheat planted 49% complete, 52% 1991. Barley planted 61% complete, 70% 1991. Tobacco harvest 91% complete, 100% 1991. Potato harvest 70% complete, 79% 1991. Third cutting alfalfa 78% complete, 88% 1991. Fourth cutting alfalfa 51% complete, 55% 1991. Second cutting clover timothy 97% complete, 100% 1991. Quality of hay made 4% poor, 53% fair, 42% good. Feed from pastures 2% very poor, 6% poor, 50% fair; 42% good. Apple harvest 56% complete, 65% 1991. Peach harvest 99% complete, 100% 1991. Grapes harvest 62% complete, 82% 1991. Fall plowing 56% complete, 68% 1991. Activities: hauling manure; maintaining machinery; cutting, baling hay; making corn silage; fall plowing; seeding small grains; fruit, potato harvesting; fixing fence; caring for livestock.

**PUERTO RICO:** Island rainfall 1.15 in. was 0.69 in. below normal. Highest rainfall was 6.18 in. at Las Marias, 5.58 in. at San Sebastian, 5.20 in. at Maricao. Divisional temperatures 80 to 82° on the coasts, 77 to 78° in the interior with mean station temperatures 73.5° at Maricao to 83.6° at Guayama. Extremes 60°; 94°.

**SOUTH CAROLINA:** Temperatures below normal statewide. Average rainfall 0.70 in.

Days suitable for fieldwork 5.9. Soil moisture 39% short, 54% adequate, 7% surplus. Tobacco fair to good; 81% stalks destroyed, 81% 1991, 68% avg. Corn fair to good; 90% harvested, 95% 1991, 86% avg. Cotton fair; 87% open bolls, 89% 1991, 88% avg.; 5% harvested, 17% 1991, 20% avg. Soybeans fair to good; 43% leaves turning, 50% 1991, 43% avg.; 13% shedding leaves, 19% 1991, 16% avg.; 7% mature, 9% 1991, 10% avg. Apples fair; 76% harvested, 91% 1991, 80% avg. Grapes fair to good. Fall hay fair to good; 81% harvested, 77% 1991, 74% avg. Peanuts fair to good; 26% harvested, 48% 1991, 32% avg. Sorghum fair to good; 53% harvested, 56% 1991, 51% avg. Oats 7% planted, 6% 1991, 8% avg.; 3% emerged, 0% 1991, 0% avg. Rye 12% planted, 10% 1991, 12% avg.; 3% emerged, 0% 1991, 3% avg. Winter grazing fair to good; 40% planted, 40% 1991, 38% avg.; 26% emerged, 25% 1991, 23% avg. Barley 4% planted, 4% 1991, 4% avg.; 2% emerged, 0% 1991, 0% avg. Rainfall replenished soil moisture. Some soybean insect pressure.

**SOUTH DAKOTA:** Killing freeze across most of the State early in the week. Temperatures 2 to 12° above normal with the warmest departures in the west. Extremes 17°; 94°. Precipitation none.

Days suitable for fieldwork 6.3 Topsoil 12% very short, 45% short, 42% adequate, 1% surplus. Subsoil 13% very short, 30% short, 54% adequate, 3% surplus. Sunflowers 1% very poor, 4% poor, 32% fair, 50% good, 13% excellent. Winter wheat 1% poor, 22% fair, 58% good, 19% excellent. Corn silage harvest 53% complete, 87% 1991, 72% avg. Sorghum silage harvest 38% complete, 87% 1991, 72% avg. Sunflowers harvest 12% completed, 36% 1991, 37% avg. Flax harvest 88% complete, 100% 1991, 100% avg. Frost ended the growing season. In some areas the soybean, sorghum fields were not mature, will suffer yield loss. Livestock 3% fair, 75% good, 22% excellent. Pasture 85% of normal.

**TENNESSEE:** A cold front along the east coast brought rain to extreme east on the 27th as a high-pressure system moved into the State from the west. The high pressure system brought cool, dry weather through the 2nd. A low-pressure system brought rain to middle, eastern areas over the weekend. Temperatures 5 to 10° below normal across the State. A light frost was recorded in some

areas on the mornings of the 30th, 1st. Rainfall for the week was above normal across eastern areas, below normal across middle, western areas.

Days suitable for fieldwork 4.9. Soil moisture, 4% short, 91% adequate, 5% surplus. Corn 95% mature, 92% 1991, 94% avg.; 85% silage harvested, 90% 1991, 93% avg.; 50% grain harvested, 58% 1991, 57% avg. Cotton 86% open bolls, 91% 1991, 91% avg.; 8% harvested, 32% 1991, 33% avg.; 32% fair, 68% good. Sorghum 96% mature, 87% 1991, 91% avg.; 48% harvested, 43% 1991, 63% avg. Soybeans 45% dropping leaves, 44% 1991, 53% avg.; 20% mature, 20% 1991, 28% avg.; 2% harvested, 4% 1991, 5% avg.; 10% fair, 78% good, 12% excellent. Wheat 11% seeded, 12% 1991, 14% avg. Burley Tobacco 96% harvested, 94% 1991, 94% avg.; 5% stripped, 11% 1991, 8% avg. Dark air cured tobacco 98% harvested, 89% 1991, 94% avg. Dark fire cured tobacco 96% harvested, 95% 1991, 96% avg. Cattle 7% fair, 86% good, 7% excellent. Pasture 1% poor, 9% fair, 69% good, 21% excellent. Farm activities: Harvesting hay, corn, tobacco, sorghum, cotton, soybeans; defoliating cotton; stripping tobacco; fall seedings.

**TEXAS:** Dry, cool air mass settled over State early week. Upper level high pressure over western U.S. blocked significant weather systems. Rainfall very scarce for week. Temperatures cool, 2° below normal in High Plains to 9° below normal in Lower Valley.

**Crops:** Corn harvest active Plains with open conditions. Yields good to excellent. Harvest activity virtually completed other areas. Corn 100% dented; 100% 1991; 100% avg. Cotton fields Plains benefited from warm open days but experienced cool night temperatures. Few fields in Low Plains defoliated. Continued warm temperatures are needed for later fields. Harvest good progress Blacklands. Bolls continued to open Trans-Pecos where harvest beginning. Operators Central completing harvest later fields. Cotton 100% setting bolls; 100% 1991; 100% avg. Grain sorghum maturing across Plains Cross Timbers. Early fields being harvested. Warmer weather needed for full maturity. Harvest virtually completed most other areas. Grain Sorghum 100% headed; 100% 1991; 100% avg. Rice harvest first crop virtually complete some second crop harvest beginning on early fields. Peanut harvest gained momentum most areas good yields reported. Some fields need light rain aid harvest activity. Disease most fields light. Soybean harvest continued High Plains. Harvest also continued without much delay along Upper Coast. Small grain progress dryland fields continued slowed in Plains by dry conditions. Irrigated fields making better progress. Dry conditions some other areas slowed planting progress. Sugarbeet harvest increased High Plains. Good crop expected. Sugarcane harvest in Valley getting started. Other Crops: Pecans 5% harvested; 9% 1991; 3% avg. Soybeans 41% harvested; 57% 1991; 40% avg. Sugarbeets 14% harvested; 4% 1991; 2% avg. Sunflowers 45% harvested; 46% 1991; 27% avg. Peanuts 31% harvested; 23% 1991; 18% avg.

**Commercial Vegetables:** Rio Grande Valley, planting, harvesting activity continued without much delay. San Antonio-Winter Garden, harvest cabbage, carrots, peppers continued. High Plains, carrots, pepper harvest continued. Trans-Pecos, chile harvest continued. Onion planting beginning scattered areas. East, tomato harvest continued. Sweetpotato harvest beginning wind down some fields. Pecan harvest increasing South, Central. Disease problems expected.

**Range and Livestock:** Ranges, pastures continued deteriorate with cooler, dryer conditions. Small grain pastures providing some stocker grazing Plains; however, moisture needed dryland fields. Livestock conditions remained good across State. Supplemental feeding increasing.

**UTAH:** Temperature maximums 6° above normal, minimums approximated normal. No precipitation.

Days suitable for fieldwork 7.0. Soil moisture 85% short, 15% adequate. Winter wheat seeded 85%, 87% 1991, 78% avg. Winter wheat emerged 52%, 27% 1991. Field corn mature 86%, 56% 1991; harvested for grain 24%, 11% 1991, 18% avg.; harvested for silage 94%, 79% 1991, 82% avg. Alfalfa 4th cutting 79%, 60% 1991, 60% avg. Alfalfa seed harvested 98%, 82% 1991. Potatoes harvested 86%, 69% 1991. Onions harvested 90%, 75% 1991. Dry bean harvest 81%. Apples 86% picked, 68% 1991, 55% avg. Cattle moved from summer range 60%, 51% 1991, 48% avg. Sheep moved from summer range 67%, 63% 1991, 58% avg. Pasture, range poor to fair.

**VIRGINIA:** Temperatures above normal in most divisions first of week then below normal second part of week. Extremes 26°; 87°. Rainfall above normal first of the week, below normal towards the end.

Days suitable for fieldwork 4.4. Topsoil 15% short, 64% adequate, 21% surplus. Pasture 6% poor, 27% fair, 50% good, 17% excellent. Corn mature 96%, 97% 1991, 94% avg. Corn silage harvested 75%, 95% 1991, 85% avg. Corn harvested for grain 41%, 67% 1991, 59% avg. Soybean 48% fair, 43% good, 9% excellent. Apple harvest 60%, 72% 1991, 62% avg. Flue tobacco 95% harvested, 93% 1991, 86% avg. Burley tobacco 98% harvested, 98% 1991, 95% avg. Sweet potato harvest 62% completed. Peanuts 10% dug, 67% 1991, 41% avg. Peanuts combined 2%, 50% 1991, 28% avg. Peanuts 83% fair, 17% good. Oats seeded 32%, 33% 1991, 25% avg. Barley seeded 17%, 22% 1991, 19% avg. Winter wheat seeded 5%, 18% 1991, 14% avg. Livestock mostly good. Harvesting last cuttings of hay. Marketing livestock.

**WASHINGTON:** Temperatures normal to 5° above normal west; 1 to 10° above normal, east. Rainfall 0.10 to 0.22 in. west; none to 0.05 in. east.

Days suitable for fieldwork 6.7. Soil moisture 72% short, 28% adequate. Hay, other roughage 16% short, 62% adequate, 22% surplus. Range, pasture 13% very poor, 53% poor, 34% fair. Winter wheat planted 85%, 65% 1991, 72% avg.; emerged 60%, 53% 1991, 50% avg. Alfalfa hay third cut 100% complete, 95% 1991, 97% avg. Potatoes 44% harvested, 51% 1991, 57% avg. Corn silage 80% harvested, 63% 1991, 71% avg. Corn grain harvested 7%, 4% 1991, 10% avg. Dry beans harvested 60%, 77% 1991, 74% avg. High winds, little rain hurt winter wheat crop. Adequate soil moisture to establish crop most areas; dry conditions persist. Producers wait for precipitation prior to seeding some areas. Fresh, processing potato harvest continued. Third cutting alfalfa complete; Grant county alfalfa seed harvest complete. Corn silage harvest progresses; grain corn harvest began. Apple picking ahead of normal. Fuji, Braeburn, Granny smith picked Chelan, Okanogan areas. Vegetable harvest continued. Livestock moved to fall pastures. Weaning, vaccinating, pregnancy checking in progress.

**WEST VIRGINIA:** Temperature 54°. Extremes 31°; 78°. Precipitation 0.26 in.

Days suitable for fieldwork 5.3. Soil moisture, 13% short, 87% adequate. Tobacco, 95% harvested. Hay, 19% fair, 76% good, 5% excellent; 100% second cut, 85% third cut. Apples, good. Corn, 75% good, 25% excellent; 100% dough stage, 93% mature, 30% harvested. Pastures, 33% fair, 54% good, 13% excellent; 90% of normal. Cattle, 9% fair, 83% good, 8% excellent. Sheep, 4% fair, 89% good, 7% excellent. Soybeans, good; 45% dropping leaves. Farm activities: General maintenance; clipping pastures; chopping silage; harvesting hay, corn, tobacco, apples; sowing barley, wheat.

**WISCONSIN:** Temperature 54°; at normal. Extremes 22°; 85°. Precipitation none. Frost on the morning of September 29th. Northeast, north central districts were hardest hit.

(Continued to p. 27)

## September 1992

## MONTHLY DATA FROM SELECTED FOREIGN CITIES

## CLIMATE ANALYSIS CENTER-NMC-NWS-NOAA

\*\*\* = DATA NOT AVAILABLE

### International Weather and Crop Summary HIGHLIGHTS

September 27 - October 3, 1992

**FSU:** In western areas, winter grain planting nears completion, while summer crop harvest slows in some areas due to wetness. In the **New Lands**, reports indicate spring grain harvesting was progressing later than usual.

**EUROPE:** More inundating storms hit southern France and Italy, while dryness prevails in the northeast.

**SOUTH ASIA:** Showers benefit vegetative to reproductive fall crops in the south and east. Dry weather elsewhere favors summer crop maturation.

**SOUTHEAST ASIA:** Heavy showers continue over Indochina and expand over Malaysia and Indonesia.

**EASTERN ASIA:** Dry weather aids crop maturation and early harvesting across most of China. Rain delays summer crop harvesting, but favors topsoil moisture for winter wheat in the North China Plain.

**AUSTRALIA:** Soil moisture is limited across the eastern wheat region.

**SOUTH AMERICA:** South-central Brazil continues to be well-watered. Warmer weather aids Argentina's wheat crop.

**MEXICO:** Hurricane Virgil brings heavy rain and high winds to southern Mexico.

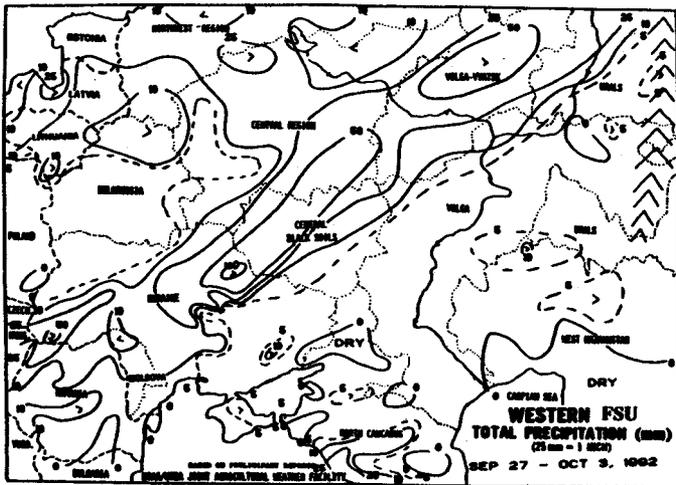
**CANADA:** Drier weather favors drydown of grains and oilseeds and promotes fieldwork in Alberta and Saskatchewan.

COUNTRY	CITY	TEMPERATURE (C)					PRECIPITATION (MM)		
		AVG MAX	AVG MIN	HI MAX	LO MIN	AVG	DPART F/NRM	TOTAL	DPART F/NRM
NORWAY	OSLO	14	6	17	-1	10	0.5	68	-24
SWEDEN	STOCKHOLM	15	9	20	5	12	0.1	42	-11
FINLAND	HELSINKI	15	9	25	4	12	1.6	93	24
U KING	GLASGOW	15	9	20	2	12	-1.0	134	36
	EDINBURGH	15	9	20	2	12	-0.6	120	62
	BIRMINGHAM	17	10	22	4	13	0.1	53	-3
	LONDON	18	10	23	4	14	0.4	55	-20
IRELAND	DUBLIN	16	10	20	4	13	-0.5	66	-7
ICELAND	REYKJAVIK	9	5	17	1	7	-1.0	61	-7
DENMRK	COPENHAGEN	17	10	20	4	14	-0.2	38	-25
LUXEMB	LUXEMBOURG	18	10	25	5	14	0.1	36	-24
SWITZL	ZURICH	19	11	27	5	15	0.9	72	-19
	GENEVA	20	12	25	5	16	1.2	64	-27
FRANCE	PARIS/ORLY	20	11	29	8	16	***	38	**
	STRASBOURG	21	10	26	4	16	0.6	44	-6
	BOURGES	21	11	30	5	16	0.0	42	-22
	BORDEAUX	22	13	28	9	17	0.4	98	16
	TOULOUSE	24	13	29	8	18	0.6	52	-4
	MARSEILLE	26	16	28	10	21	0.8	33	-25
SPAIN	VALLADOLID	25	11	34	6	18	0.3	15	-15
	MADRID	29	12	35	7	21	0.3	21	-12
GERMNY	LEIPZIG	**	**	**	*	**	***	**	**
	DRESDEN	**	**	**	*	**	***	**	**
	HAMBURG	19	10	23	7	14	0.9	35	-33
	BERLIN	19	11	23	7	15	0.1	45	-5
	DUSSELDORF	20	12	27	7	16	1.1	39	-23
	STUTTGART	20	10	27	4	15	0.5	59	-1
	NURNBERG	19	10	25	3	15	0.8	32	-17
	MUNICH	**	**	**	*	**	***	**	**
AUSTRI	VIENNA	22	12	26	5	17	1.2	46	-6
	INNSBRUCK	21	10	25	3	16	1.3	85	5
CZECH	PRAGUE	20	9	25	3	14	0.8	11	-30
POLAND	WARSAW	18	8	25	4	13	-0.2	86	45
	LODZ	18	9	23	4	13	0.4	59	6
	KATOWICE	19	8	24	2	13	0.4	43	-9
	PRZEMYSL	17	8	31	2	13	-0.7	130	75
HUNGAR	BUDAPEST	23	12	28	8	17	0.8	54	17
F YUGO	SARAJEVO	**	**	**	*	**	***	**	**
ROMANI	BUCHAREST	24	9	33	1	17	-1.0	32	-6
BULGAR	SOFIA	24	10	32	5	17	0.6	15	-23
ITALY	MILAN	25	15	29	8	20	1.7	86	17
	VERONA	26	14	30	7	20	1.4	38	-27
	VENICE	24	15	28	10	20	0.7	11	-51
	GENOA	24	19	28	15	22	-0.6	214	99
	ROME	27	17	29	10	22	1.1	74	6
	NAPLES	28	17	32	14	23	2.5	107	20
GREECE	THESSALONIKA	27	16	33	10	21	-0.7	1	-32
	LARISSA	29	13	36	6	21	-1.2	0	-39
	ATHENS	28	19	34	13	24	-0.9	0	-14
TURKEY	ISTANBUL	25	16	31	11	20	0.6	6	-35
	ANKARA	23	6	34	-2	15	-3.3	8	-29
CYPRUS	LARNACA	31	19	37	13	25	-0.2	14	9
FSU	TALLINN	16	10	28	5	13	1.7	79	8
	LENINGRAD	17	11	30	6	14	3.2	67	8
	KAUNAS	16	9	31	3	13	0.8	113	58
	MINSK	16	9	30	3	13	0.9	65	16
	KAZAN	20	9	28	3	15	3.4	9	-33
	MOSCOW	17	10	29	3	13	2.4	49	-14
	SVERDLOVSK	16	5	26	-5	10	0.4	12	-24
	OMSK	12	4	25	-7	8	-3.0	43	18
	KUSTANAY	18	5	28	-4	12	-0.3	4	-22
	KRASNOYARSK	10	3	18	-5	6	-2.5	29	-13
	NOVOSIBIRSK	10	4	22	-6	7	-3.2	82	49
	BARNAUL	11	5	23	-4	8	-3.6	93	65
	KHABAROVSK	17	9	26	1	13	-0.4	110	13
	VLADIVOSTOK	18	13	24	6	16	0.1	269	135
	KIEV	18	10	29	5	14	0.2	58	10
	LVOV	17	8	31	1	13	-0.4	157	103
	KIROVOGRAD	20	9	31	2	15	0.5	13	-23
	ODESSA	20	12	26	7	16	-0.5	5	-35

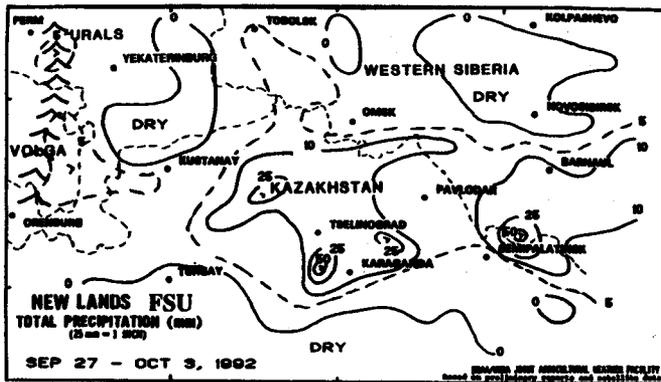
Based on Preliminary Reports

September 1992

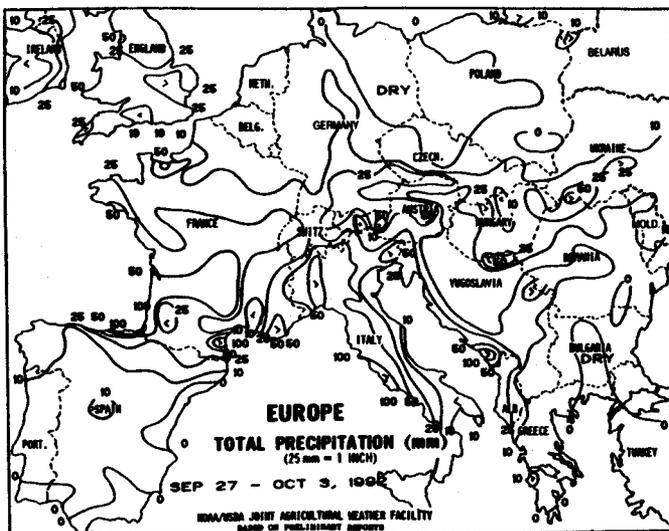
COUNTRY	CITY	TEMPERATURE (C)					PRECIPITATION (MM)			COUNTRY	CITY	TEMPERATURE (C)					PRECIPITATION (MM)		
		AVG MAX	AVG MIN	HI	LO	DPART	F/NRM	TOTAL	DPART			AVG MAX	AVG MIN	HI	LO	DPART	F/NRM	TOTAL	DPART
FSU	YALTA	23	15	29	10	19	-0.4	8	-26	KENYA	NAIROBI	25	11	30	2	18	-0.2	1	-23
	VORONEZH	17	9	28	2	13	-0.1	111	67	TANZAN	DAR ES SALAAM	30	19	33	14	24	0.1	22	-8
	SARATOV	19	11	31	5	15	2.5	29	1	GABON	LIBREVILLE	27	23	28	21	25	-0.5	118	12
	KHARKOV	18	10	29	4	14	-0.5	20	-17	TOGO	LOME	29	24	30	22	26	0.7	44	-4
	VOLGOGRAD	20	11	33	4	15	0.0	41	19	B FASO	OUAGADOUGOU	33	23	38	20	28	1.1	152	-2
	ROSTOV	20	11	30	5	16	-0.9	28	-6	IVRY C	ABIDJAN	28	23	35	22	26	1.0	51	-13
	ASTRAKHAN	24	12	32	4	18	0.9	25	5	MOZAMB	MAPUTO	29	19	39	14	24	2.6	0	-47
	KRASNOGAR	23	11	32	3	17	-0.5	53	24	ZAMBIA	KAEWE	**	**	**	**	**	***	*	
	ORENBURG	21	9	32	-1	15	1.4	28	0	ZIMBAB	HARARE	28	13	31	11	21	1.8	0	-10
	TSELINOGRAD	14	4	24	-5	9	-2.1	17	-8	S AFRI	PRETORIA	29	15	33	12	22	4.2	0	-22
	KARAGANDA	13	3	23	-2	8	-4.1	35	18		KROONSTAD	28	10	33	2	19	3.0	3	-22
	TBILLISI	25	15	32	7	20	0.4	57	12		JOHANNESBURG	26	11	31	7	19	3.4	7	-19
	TASHKENT	28	12	35	9	20	0.0	3	1		BETHAL	26	10	30	5	18	3.1	0	-25
	ASHKHABAD	30	14	35	11	22	-1.4	0	-5		DURBAN	24	15	33	9	20	0.8	49	-21
SYRIA	DAMASCUS	33	12	40	4	22	-1.6	0	0		CAPE TOWN	18	9	24	2	14	-0.1	64	26
ISRAEL	JERUSALEM	28	16	36	9	22	-0.4	0	0	CANADA	TORONTO	20	9	28	2	15	-0.7	99	35
PAKIST	KARACHI	32	26	35	21	29	-0.2	24	-8		MONTREAL	20	10	28	-1	15	-0.2	109	20
INDIA	AMRITSAR	32	23	35	21	27	-1.7	151	56		WINNIPEG	17	5	26	-3	11	-1.2	54	1
	NEW DELHI	34	24	37	21	29	-0.3	109	-17		REGINA	18	3	32	-5	11	-1.1	43	7
	AHMEDABAD	33	23	37	21	28	-0.7	192	15		SASKATOON	16	3	31	-5	10	-1.7	48	17
	INDORE	30	20	34	17	25	-0.4	111	-101		LETHBRIDGE	19	4	33	-3	11	-1.6	24	-13
	CALCUTTA	33	26	36	23	29	0.3	216	-88		CALGARY	16	3	28	-4	10	-0.9	48	9
	VERAVAL	31	25	38	23	28	1.0	298	191		EDMONTON	15	3	28	-2	9	-1.9	45	6
	BOMBAY	31	25	35	23	28	1.2	340	31		VANCOUVER	18	10	24	5	14	-0.3	49	-18
	POONA	29	20	34	17	25	-0.3	184	66	MEXICO	GUADALAJARA	26	16	30	13	21	0.4	296	137
	BEGAMPET	31	21	33	19	26	0.3	94	-88		MEXICO CITY	22	13	25	8	17	0.8	185	68
	MADRAS	35	26	37	23	30	0.5	54	-65		ACAPULCO	33	25	34	23	29	1.0	233	-193
	MANGALORE	30	24	31	22	27	0.5	323	56		BERMUD ST. GEORGES	30	25	31	23	28	1.8	122	-40
H KONG	HONG KONG	**	**	**	**	**	***	***	**		BAHAMA NASSAU	31	24	33	21	27	0.3	73	-102
N KREA	PYONGYANG	23	13	28	3	18	-0.6	178	28		CUBA HAVANA	31	24	33	22	27	0.5	104	-41
S KREA	SEOUL	25	17	31	9	21	0.9	169	27		JAMAIC KINGSTON	33	25	35	22	29	1.0	41	-71
JAPAN	SAPPORO	20	13	27	5	17	-0.2	282	139		P RICO SAN JUAN	32	25	33	23	28	0.3	122	-30
	NAGOYA	29	20	36	12	25	1.8	116	-93		GUADEL RAIZET	32	23	34	22	28	0.9	83	-79
	TOKYO	27	21	35	14	24	0.9	110	-84		MARTINQ LAMENTIN	30	24	31	19	27	1.0	169	-43
	YOKOHAMA	27	20	36	15	24	1.1	133	-67		BARBAD BRIDGETOWN	30	25	31	23	27	0.1	81	-65
	KYOTO	28	20	35	12	24	1.7	82	-120		TRINID PORT OF SPAIN	32	23	34	22	28	1.3	95	-91
	OSAKA	29	22	35	14	25	1.3	72	-91		COLOMB BOGOTA	20	6	30	1	13	0.3	53	-4
THAILN	PHETCHABUN	33	24	34	22	28	1.1	234	2		VENEZU GUADALAJARA	33	25	36	21	29	1.5	67	17
	BANGKOK	33	25	35	23	29	1.1	383	41		F GUIA CAYENNE	32	22	33	20	27	0.4	4	-61
MALAYS	KUALA LUMPUR	33	23	35	22	28	1.9	121	-65		BRAZIL FORTALEZA	30	23	32	22	27	0.0	8	-18
VIETNM	HANOI	32	26	37	24	29	1.3	154	-100		RECIFE	28	22	29	19	25	-0.1	122	36
CHINA	HARBIN	19	8	27	-3	14	-0.6	41	-26		BELO HORIZONTE	24	17	30	14	21	-0.7	93	58
	HAMI	25	7	32	2	16	-2.5	6	3		CAMPO GRANDE	27	17	33	13	22	-0.9	163	101
	LANCHOW	21	12	28	7	16	0.7	59	13		FRANCA	24	16	28	12	20	-0.5	151	86
	BEIJING	26	16	34	10	21	1.3	54	-3		LONDRINA	24	14	31	12	20	-0.3	172	68
	TIENTSIN	26	16	33	9	21	0.2	17	-27		SANTA MARIA	21	12	30	3	17	-0.2	154	3
	LHASA	21	8	24	1	15	0.6	45	-20		PERU LIMA	19	15	21	14	17	1.0	6	2
	KUNMING	24	15	27	11	20	2.2	80	-40		BOLIVI LA PAZ	15	-1	17	-5	7	-1.3	9	-22
	CHENGCHOW	25	16	33	9	21	-0.1	97	26		CHILE SANTIAGO	18	6	24	1	12	0.3	0	-24
	YEHCHANG	27	20	35	13	24	0.2	30	-80		ARGENT IGUAZU	25	13	33	6	19	***	61	**
	HANKOW	27	20	34	13	23	0.1	60	-21		FORMOSA	24	15	33	9	20	-0.3	108	26
	CHIHKIANG	28	20	36	14	24	1.0	34	-25		CERES	22	10	32	3	16	-0.7	41	-1
	SHANGHAI	27	22	33	14	24	***	99	**		CORDOBA	21	9	31	2	15	-0.1	119	85
	NANCHANG	30	22	36	15	26	1.1	13	-63		RIO CUARTO	19	9	30	2	14	0.6	139	107
	TAIPEI	30	25	33	22	27	1.0	332	111		ROSARIO	20	9	27	2	14	0.5	23	-31
	CANTON	33	25	37	22	29	1.8	282	101		BUENOS AIRES	19	8	26	1	13	0.4	55	-7
	NANNING	33	25	37	22	29	2.1	53	-66		SANTA ROSA	19	7	29	0	13	0.6	120	84
CNRY I	LAS PALMAS	26	21	31	17	24	0.2	1	-5		TRES ARROYOS	16	6	27	1	11	0.4	113	45
MOROCC	CASABLANCA	25	19	41	14	22	0.6	7	0		N CALD NOUMEA	25	18	29	15	22	1.0	25	-22
	MARRAKECH	34	19	41	15	26	1.8	0	-5		FIJI NAUSORI	26	20	30	17	23	0.0	106	-80
ALGERI	ALGER	30	18	38	12	24	1.3	15	-15		SAMOA PAGO PAGO	30	26	32	22	28	1.6	89	-81
	BATNA	30	14	35	10	22	1.8	50	28		TAHITI PAPEETE	30	22	32	20	26	1.3	123	67
TUNISI	TUNIS	31	20	36	16	25	1.4	10	-27		N ZEAL AUCKLAND	15	9	18	4	12	-0.8	87	-11
NIGER	NIAMEY	34	25	39	21	29	1.2	67	-29		PA N G PORT MORESBY	31	23	32	21	27	0.2	10	-29
MALI	TIMBUKTU	39	25	43	21	32	1.1	31	-1		AUSTRL DARWIN	32	25	35	24	29	0.9	5	-7
	BAMAKO	32	22	36	20	27	0.8	183	-35		MOREE	21	7	31	1	14	-1.4	9	-25
MAURIT	NOUAKCHOTT	37	26	43	22	31	1.8	0	-35		BRISBANE	23	12	29	4	17	-0.8	25	-10
SENEGL	DAKAR	31	25	33	20	28	0.1	73	-83		PERTH	18	8	25	4	13	-1.4	58	-8
CHAG A	DIEGO GARCIA	29	24	29	15	27	0.3	24	-214		CEDUNA	18	7	28	2	12	-2.3	57	27
LIBYA	TRIPOLI	33	19	38	16	26	0.2	0	-17		ADELAIDE	15	8	20	3	11	-2.1	81	21
	BENHAZI	29	20	35	17	24	-0.9	0	-2		MELBOURNE	13	6	17	2	10	-2.3	94	38
EGYPT	CAIRO	31	21	35	17	26	-0.4	0	0		WAGGA	15	4	19	-1	9	-1.6	77	23



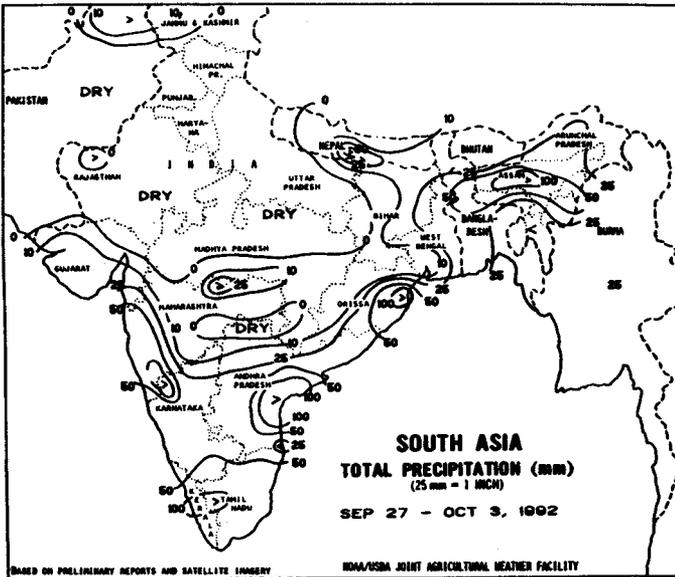
**FSU-WESTERN:** Winter grain planting was nearing completion. Summer crop (corn, sunflower, and sugar beet) harvests continued to progress. An eastward-moving cold front, with storm systems moving along the front, brought widespread rain to the region. Greatest amounts of moisture (25-75 mm, with local amounts in excess of 80 mm) fell in a narrow band that stretched northwestward from north-central Ukraine, through western Black Sea Soil Region and the eastern portion of Central Region, into Volga Vyatsk Region. The rain in these areas interrupted harvest. Lesser amounts of rain (generally less than 10 mm) over most of Belarus, southern Ukraine, North Caucasus, and Volga caused only brief interruptions in harvest. Average temperatures over the region ranged from 9 to 14 degrees Celsius (C), promoting further growth of winter grains. Winter grains were cold-hardening prior to dormancy over the northern half of the region.



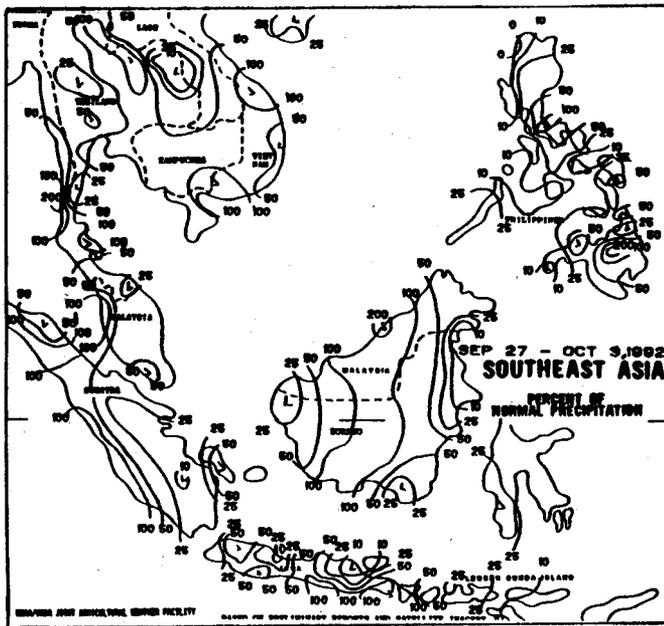
**FSU - NEW LANDS:** Spring grain harvesting is usually complete by early October. However, reports indicated the spring grain harvest was running later than usual, especially in Western Siberia, where previous cool, wet weather hampered spring grain maturation and harvest. Although drier weather covered Western Siberia this past week, light rain and snow (precipitation around 10 mm) along with persistent cloudiness and unseasonably cold weather continued to cause some harvest delays. Generally dry weather over the Urals and northern crop areas in Kazakhstan caused only brief delays in harvesting. Average temperatures in Western Siberia were 2-5 degrees C below normal with lowest temperatures ranging from -4 to -10 degrees C. Average temperatures in the Urals and northern Kazakhstan were 1-2 degrees C above normal with lowest temperatures ranging from -1 to -3 degrees C.



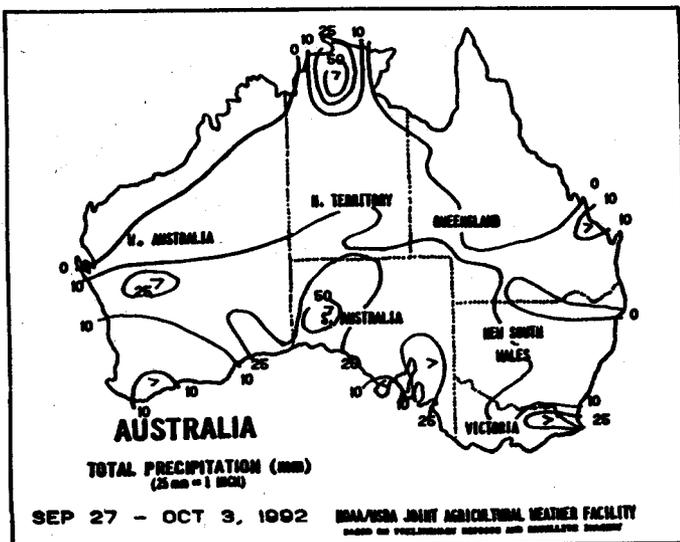
**EUROPE:** Locally heavy rain (50-100 mm or more) fell again over southern France and inundated much of western Italy. Widespread showers (10-25 mm or more) covered much of the United Kingdom, France, southern Germany, and portions of the southeast, including most of Hungary, western Romania, and over the Adriatic region. The persistent wetness in the west disrupted fieldwork and produced locally damaging floods, but the moisture in the southeast benefited winter crop establishment. The corn harvest was delayed in France and was slowed in Romania. While the storm track produced soaking rain in southern Europe, mostly dry weather prevailed from the Benelux countries to Poland and northern Czechoslovakia. Topsoil moisture is needed in the northeast for winter crop establishment.



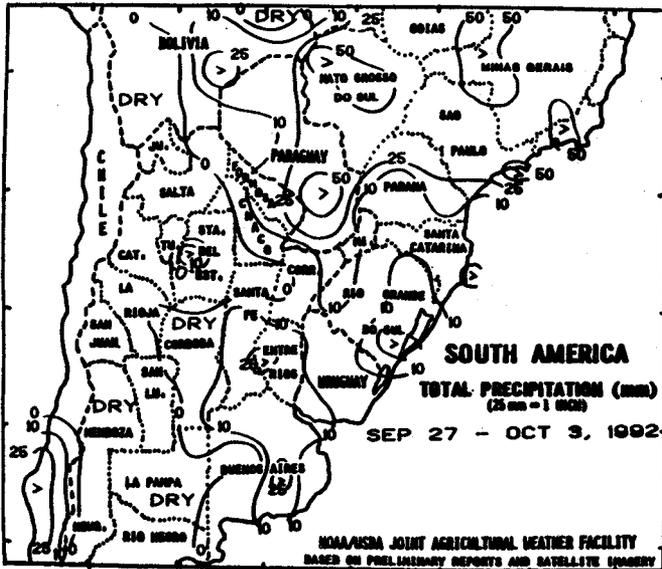
**SOUTH ASIA:** Seasonable showers (15-50 mm or more) over India's southern interior maintained favorable conditions for vegetative to reproductive grains, oilseeds, and cotton. Heaviest rain (50-97 mm) was concentrated over Tamil Nadu, although heavy showers (50-181 mm) returned to much of the southwest coast, improving irrigation reserves for fall-planted rice. An increase in rainfall is expected this time of year in southern India as the monsoon withdraws from the northwest. Moderate to heavy showers (25-50 mm or more, with isolated exceeding 100 mm) continued over primary rice areas from coastal Andhra Pradesh through Bangladesh to the eastern states, boosting irrigation for dry season crops. Seasonably dry, warm weather continued over central and northern India and Pakistan, favoring maturing summer crops.



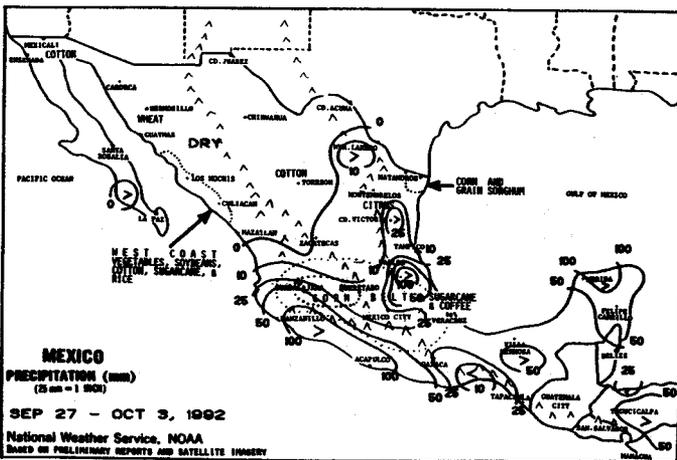
**SOUTHEAST ASIA:** Moderate to heavy showers (25-50 mm or more, with local totals of 100-200 mm) continued over Indochina, boosting irrigation levels for dry season rice. The heavy showers extended southward along the Malay Peninsula, and covered a large area of Malaysia and Indochina, where locally inundating rainfall (150-250 mm) caused some flooding. During October, rainfall typically decreases rapidly over Indochina and increases over Indonesia and Malaysia as the Intertropical Convergence Zone (ITCZ) makes its southward trek. In the Philippines, moderate to heavy showers (25-50 mm or more) were scattered throughout the islands, improving moisture reserves for fall-planted rice and corn. Rainfall typically increases this time of year in the eastern growing regions as the monsoon shifts from a southwesterly to a more easterly flow.



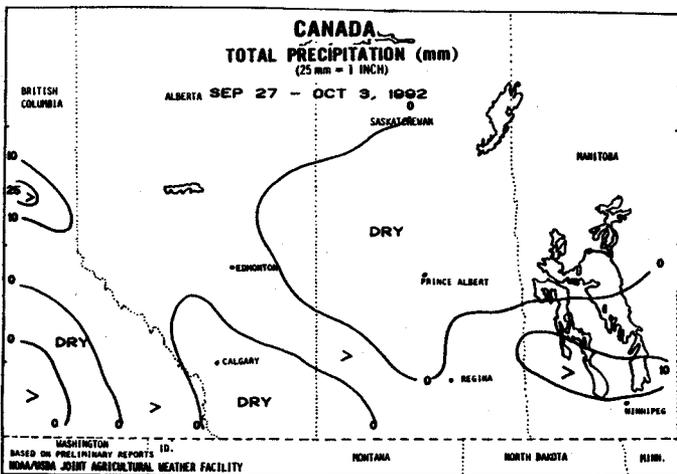
**AUSTRALIA:** Dryness continued across the eastern wheat areas, where soil moisture is limited for vegetative to flowering winter wheat. Moisture is needed to stabilize wheat yield prospects. Light to moderate rain (7-32 mm) fell across southern New South Wales, Victoria, and southern South Australia, aiding vegetative winter grains. Scattered rain (2-23 mm) benefited winter wheat across Western Australia. While temperatures averaged 3-5 degrees C below normal across the southern third of the country, no freezing temperatures were reported.



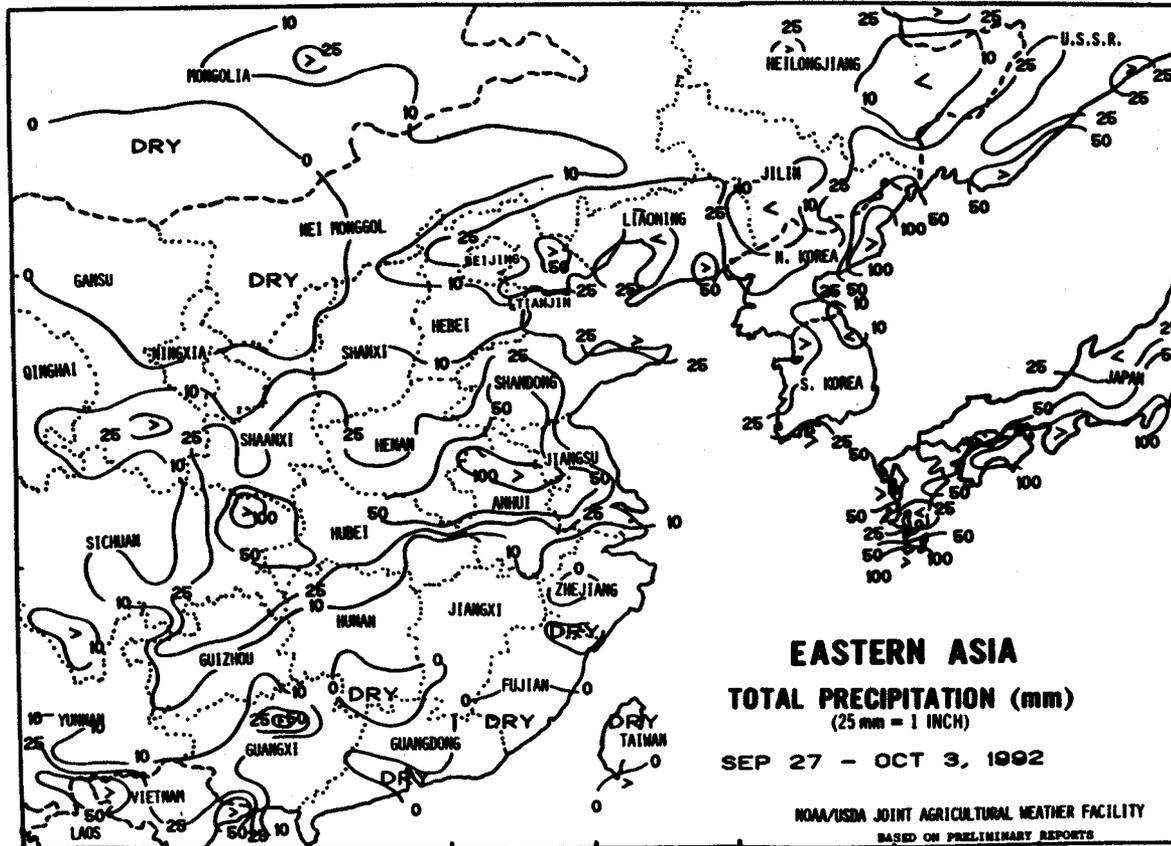
**SOUTH AMERICA:** Light to moderate rain (6-23 mm) fell across southern Parana, Santa Catarina, and Rio Grande do Sul, allowing a few days of winter wheat harvesting. Further north in southern Brazil, widespread moderate to heavy rain (32-89 mm) covered Mato Grosso do Sul, Sao Paulo, and Minas Gerais, favoring topsoil moisture for soybean and corn planting, but also causing some fieldwork delays. Temperatures averaged near normal across most of southern Brazil. In Argentina, dry weather favored corn and sunflower planting, while late-week rain (5-31 mm) aided topsoil moisture for summer crop planting and vegetative to flowering winter wheat across Santa Fe and most of Buenos Aires. Warmer temperatures (2-4 degrees C above normal) across central Argentina favored winter wheat growth and fieldwork. However, the western crop-areas of Cordoba and La Pampa reported maximum temperatures in the low 30's C and little rainfall. This region would benefit from additional rain due to the warmer weather and a drying trend.



**MEXICO:** Late in the week, Hurricane Virgil hit the coast of Michoacan in southern Mexico, with sustained winds of 110-120 knots (127-138 mph). The storm brought heavy rain (greater than 100 mm) along the southern coast. Lighter amounts (18-27 mm) fell in the Southern Plateau corn belt, slowing early corn harvesting. Variable showers (35-172 mm) fell across eastern Mexico (Veracruz and Tamaulipas), favoring sugarcane and coffee. The Yucatan peninsula received widespread moderate to heavy rain (42-113 mm), keeping vegetative to reproductive corn well-watered. Temperatures averaged near normal across the corn belt.



**CANADA:** Dry, warmer-than-normal weather (precipitation 3 mm or less; temperatures 3-5 degrees C above normal) dominated crop regions of Alberta and Saskatchewan, aiding crop drydown and allowing rapid harvest progress. Temperatures reached 30 degrees C as far north as Edmonton, Alberta, and high temperatures of 30-33 degrees C were common in southern growing areas. Moderate showers (10-17 mm) caused minor harvest delays in Manitoba but worsened quality prospects. In the east, drier weather favored maturation of Ontario's summer crops, but frost was again scattered throughout northern corn districts.



**EASTERN ASIA:** Light to moderate rain (6-21 mm) fell across most of Manchuria, with heavier amounts (17-40 mm) in Liaoning, aiding late-filling corn and soybeans. Freezing temperatures were reported in Heilongjiang, but most summer crops were mature. Moderate to heavy rain (14-74 mm) spread across the North China Plain to Sichuan, increasing soil moisture for winter wheat and reservoirs for rice, but delaying summer crop harvesting. Heavier amounts (94-152 mm) caused possible cotton damage across northern Anhui and Jiangsu. Favorably dry weather prevailed across southern China, aiding filling late double-crop rice and single-crop rice harvesting.

(Continued from front cover)  
 temperatures fell into the upper 20's in **northern Iowa**. As the cold air spread into New England at midweek, it combined with moisture to produce the first measurable September snow on record in **Burlington, VT**. Outside the contiguous States, bitter cold continued in **interior Alaska**. Lows of 9°F in **Nome** and 3°F in **Fairbanks** were September records. But the late-season heat wave persisted in the **West**, and gradually spread eastward. Among the 6 dozen daily record highs were readings of 105°F in **Bakersfield, CA**, 96°F in **Boise, ID**, and 91°F in **Jamestown, ND**. **Valentine, NE**, reached 94°F on Friday, only 4 days after a low of 24°F. And **Marquette, MI**, attained its second highest temperature this year (87°F). Late in the week, a Pacific storm moved into the **Northwest**, while a powerful storm developed in the eastern **Gulf of Mexico**. Temperatures returned to seasonable levels in the West, and winds gusted above 60 mph in **eastern Nevada**. Meanwhile, the gulf storm produced torrential rains, flash flooding, and gusty winds across **Georgia** and **northern Florida**. Beach erosion and coastal flooding was most severe along the gulf coast **south of Tallahassee, FL**. In addition, several tornadoes battered **west-central Florida**.

(Continued from p. 21)

Days suitable for fieldwork 6.8. Soil moisture 2% short, 83% adequate, 15% surplus. Pasture 77% of normal, 78% 1991, 76% avg. General condition of crops 3% very poor, 5% poor, 34% fair, 57% good, 1% excellent. Corn 3% very poor, 6% poor, 34% fair, 53% good, 4% excellent; 75% in dent stage or beyond; 27% mature, 88% 1991, 81% avg.; grain 1% harvested, 21% 1991, 15% avg.; silage 21% harvested, 76% 1991, 68% avg. Third crop hay 66% harvested, 81% 1991, 80% avg. Soybean 5% poor, 39% fair, 56% good; 81% turned; 37% shedding leaves, 88% 1991, 84% avg. Intended fall tillage 8% complete, 16% 1991, 16% avg.

**WYOMING:** Warm, dry weather prevailed across the State. Temperatures normal to 7° above normal. Precipitation was between 0.10 to 0.30 in. below normal. The only precipitation reported was in the northeast region.

Days suitable for fieldwork 6.5. Topsoil 77% short, 23% adequate. Subsoil moisture 77% short, 23% adequate. Dry beans 4% leaves turning color, none 1991, 1% avg.; 8% windrowed, 15% 1991, 18% avg.; 88% combined, 85% 1991, 81% avg. Corn 2% dough, none 1991, 1% avg.; 40% dented, 24% 1991, 31% avg.; 48% mature, 56% 1991, 57% avg.; 10% harvested, 20% 1991, 11% avg.; silage 81% harvested, 96% 1991, 92% avg. Potatoes 73% harvested, 70% 1991, 68% avg. Sugarbeets harvested 24%, 22% 1991, 25% avg. 1993 Winter wheat 5% not planted, 3% 1991, 6% avg.; 18% planted, 30% 1991, 27% avg.; 77% emerged, 67% 1991, 67% avg. 1993 Winter wheat mostly fair to good. Livestock moved from summer ranges 51% cattle, calves; 53% sheep, lambs. Ranges, pastures in poor to fair. Cattle, sheep fair to mostly good. Hay supplies for wintering livestock 9% very short, 31% short, 60% adequate.

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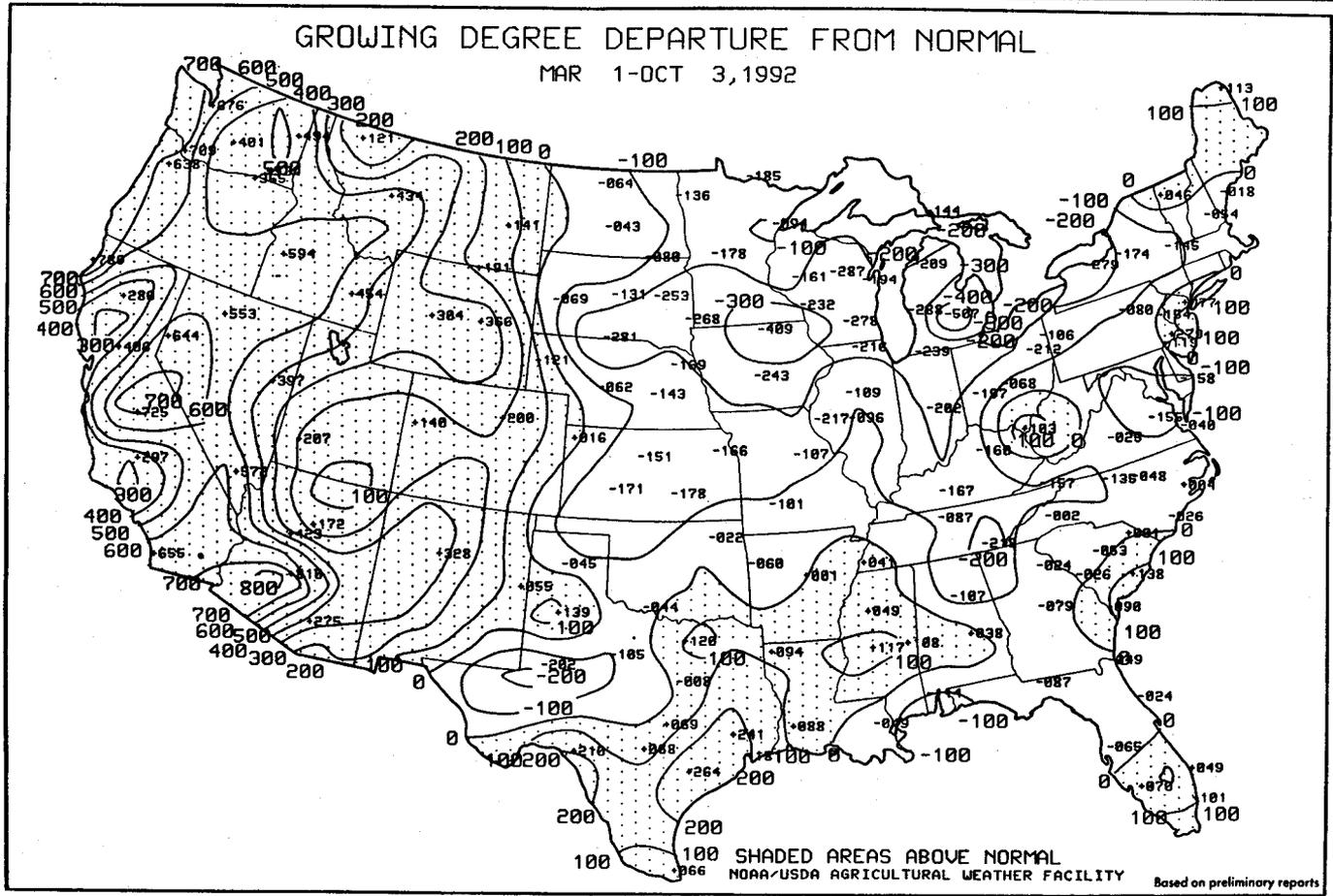
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