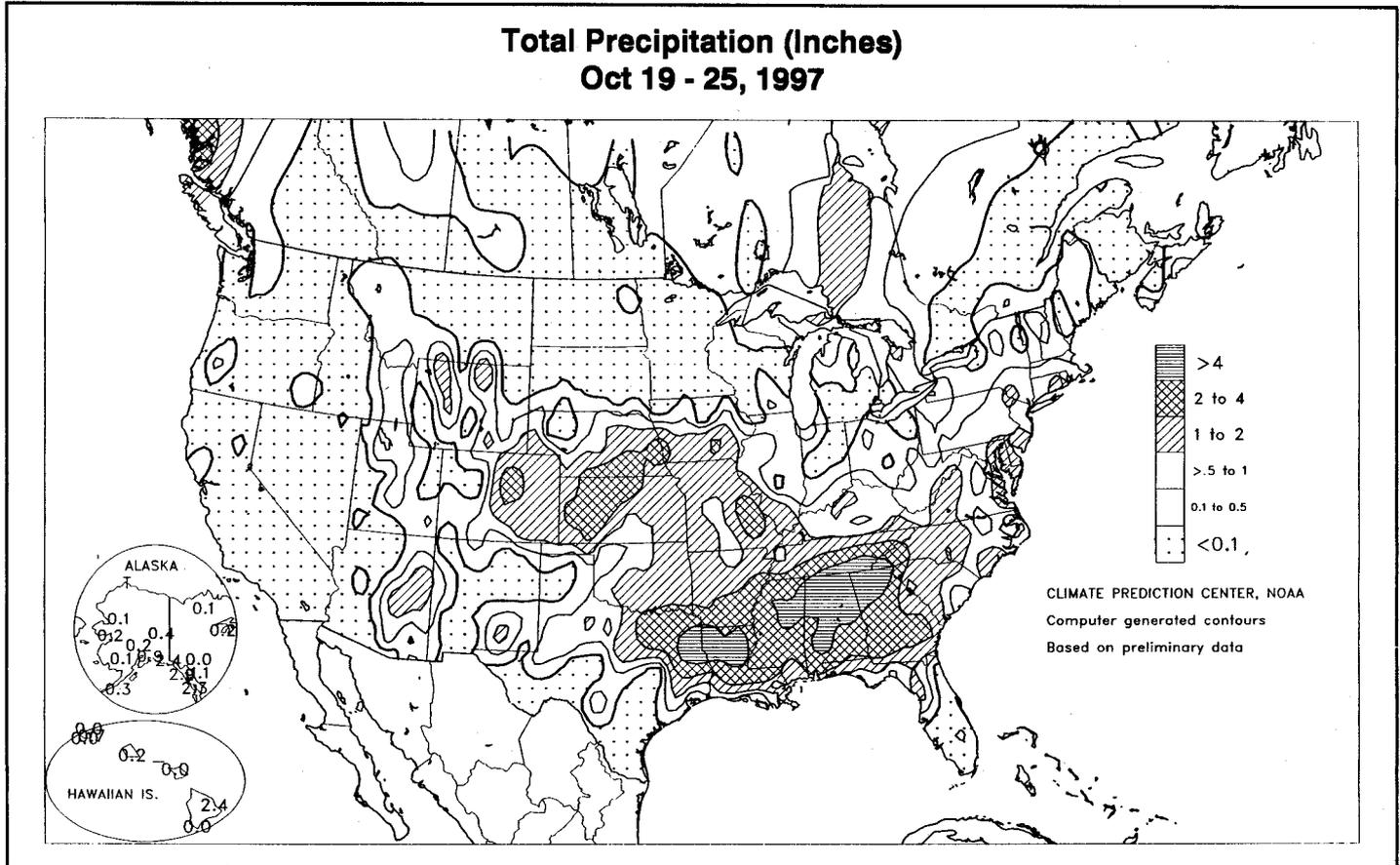


WEEKLY WEATHER AND CROP BULLETIN

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

Total Precipitation (Inches)
Oct 19 - 25, 1997



CLIMATE PREDICTION CENTER, NOAA
Computer generated contours
Based on preliminary data

HIGHLIGHTS

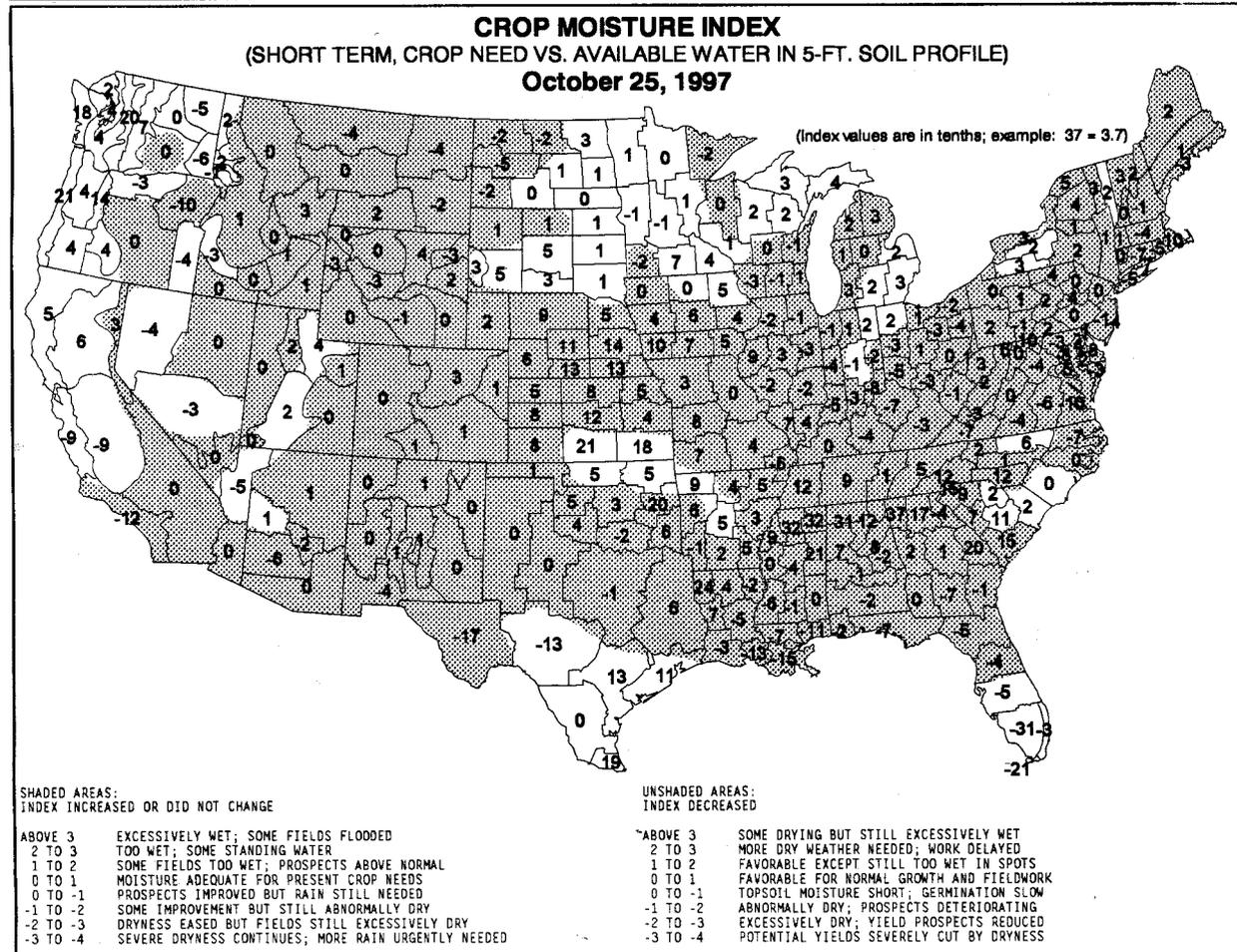
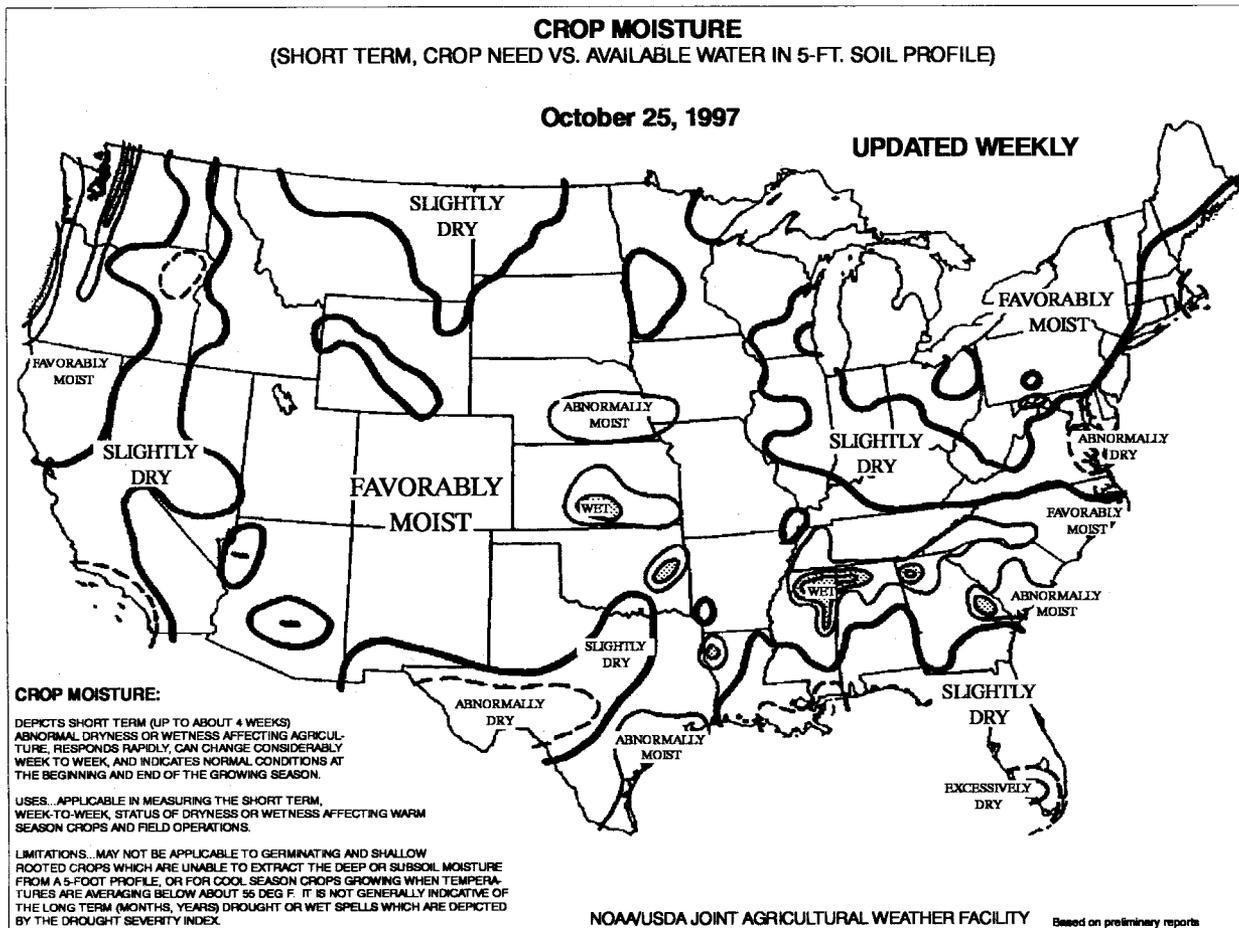
October 19 - 25, 1997

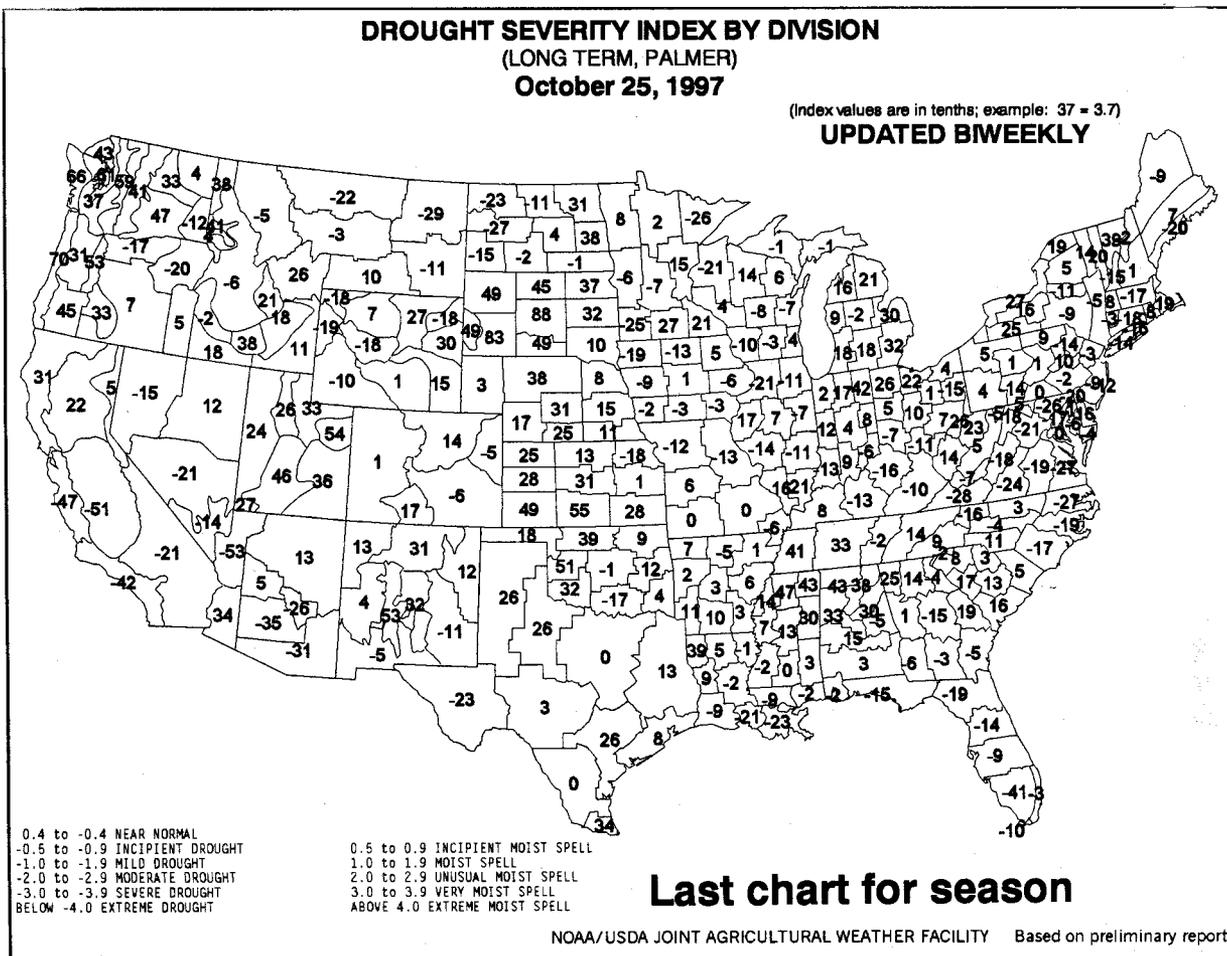
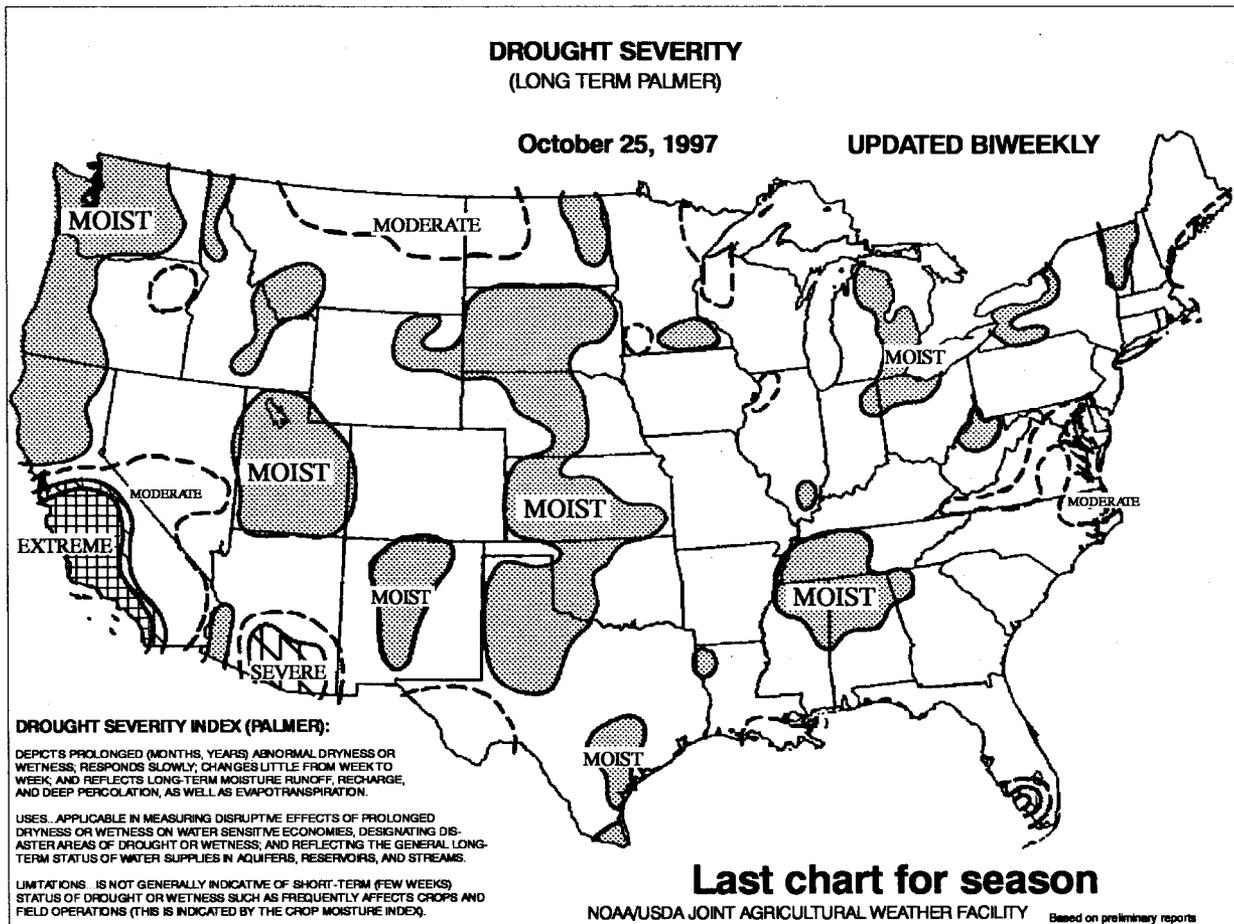
Wintery weather made a grand entrance this week. The coldest air of the season swept southward out of **Canada** early in the period, and a huge storm system brought heavy snow to the **Great Plains** and heavy rain to the **South** late in the week. The powerful winter storm paralyzed much of the **central Plains** with up to 2 feet of snow, howling winds, and bitter cold. In the warm sector side of the storm, an influx of Gulf moisture fueled widespread rain and thunderstorms from **eastern Texas** to the **Southeast coast**. All told, weekly precipitation totals ranged from 2 to 5 inches across most of the **South**, while 1- to 3-inch totals covered the **central Plains**. Drier weather until week's end encouraged

(Continued on page 4)

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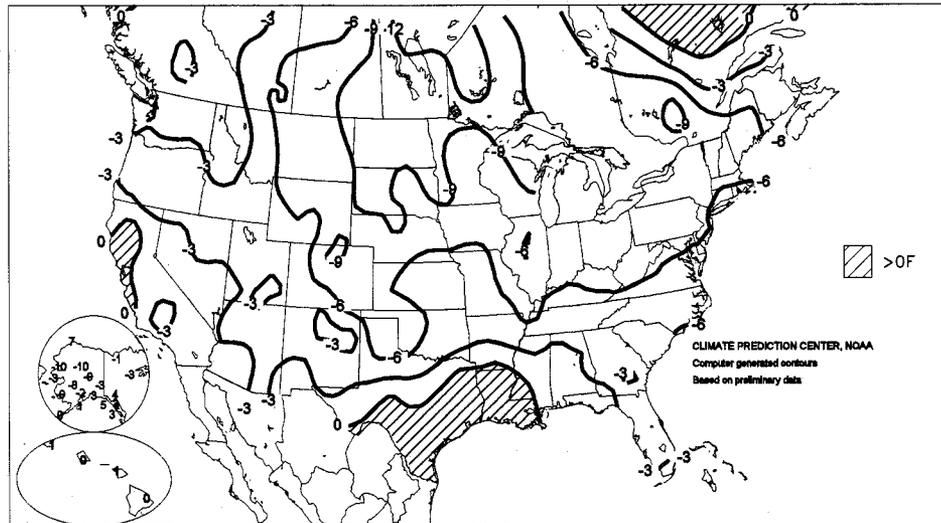
farmers to rush harvests to completion across the **Midwest**. Widespread freezing temperatures on Wednesday and Thursday mornings brought the growing season to an end from the **Midwest** to the **mid-Atlantic** region. Weekly temperatures averaged 6 to 9°F below normal over the northern half of the continental **United States**.

An **Atlantic** coastal storm left lingering rain along the **mid-Atlantic** coast on Sunday, October 19, while a weak cold front crossed the **central States**. On Monday, a second cold front penetrated the **northern Plains**, heralding the coldest air of the season. By Tuesday morning, temperatures had dipped into the teens across **western North Dakota**. As the polar high swept southward and eastward, the cold air ignited the lake-effect snow machine, bringing this season's first significant accumulations to the **Great Lakes region** from Monday through Wednesday. **Marquette, Michigan**, recorded 8 inches of snow.

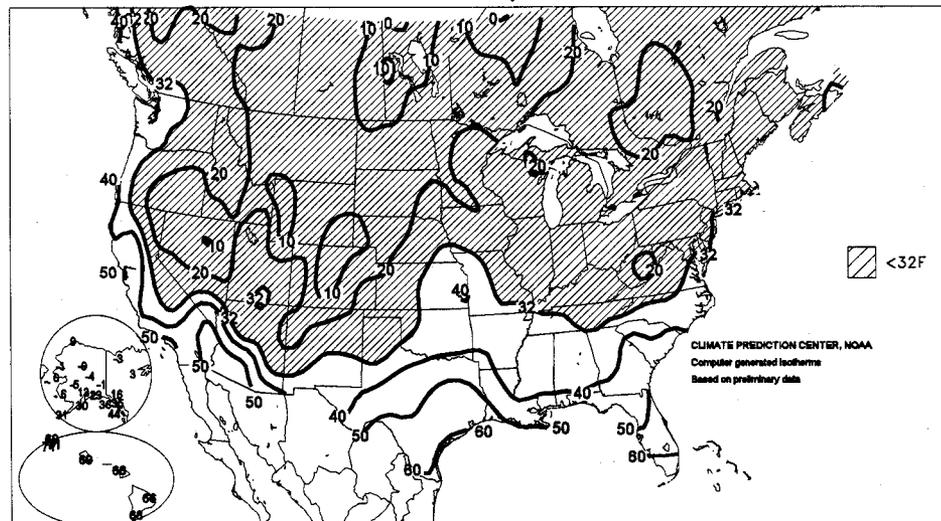
Thermometers saw readings dip into the 20's across most of the **Corn Belt** on Wednesday. On Thursday, the cold air traveled eastward, leaving 20- to 30-degree temperatures across the **Ohio and Tennessee Valleys, mid-Atlantic States, and New England**.

On Friday, the second cold blast of air infiltrated the **High Plains**. Low pressure along a front over **southeastern Colorado** intensified as it tracked eastward

Departure of Average Temperature from Normal (F)
OCT 19 - 25, 1997



Extreme Minimum Temperature (F)
OCT 19 - 25, 1997



during the next 2 days. The result was one of the great October snowstorms of the century across the **central Plains States**. By Sunday morning, October 26, heavy snow covered the ground from **Iowa** southwestward to **Colorado**. Twelve to 18 inches fell across **southern Nebraska** and **northwest Kansas**, but the plains and foothills of **Colorado** felt the brunt of the snow, with full-blown blizzard conditions from late Friday through Saturday. The 22-inch total in **Denver** made this the snowiest October storm since 1923. Locally, totals reached 2 to 4 feet south and west of **Denver**, with **Palmer Lake** reporting 52 inches and 15-foot snow drifts. To the east and south, heavy rains left 1- to 3-inch totals, with some higher amounts, from **east Texas** to **Georgia** during Thursday to Saturday.

National Weather Data for Selected Cities

Weather Data for the Week Ending October 25, 1997

Data Provided by Climate Prediction Center (301-763-8000 EXT. 7511)

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS						
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL IN. SINCE Sep 1	PCT. NORMAL SINCE Sep 1	TOTAL IN. SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	0.1 INCH OR MORE		50 INCH OR MORE	
																		01 INCH OR MORE	50 INCH OR MORE		
AL BIRMINGHAM	70	46	75	37	58	-2	2.44	1.82	1.12	7.37	120	44.96	101	98	47	0	0	4	2		
HUNTSVILLE	65	44	73	34	56	-4	5.02	4.29	3.27	12.69	191	51.18	112	98	55	0	0	4	3		
MOBILE	75	52	81	41	64	-3	1.58	0.99	1.21	7.09	85	66.37	123	97	54	0	0	5	1		
MONTGOMERY	74	47	79	36	61	-3	1.24	0.71	0.51	4.44	74	36.56	84	99	53	0	0	5	1		
AK ANCHORAGE	36	24	50	13	30	-2	0.92	0.50	0.54	3.68	84	16.02	120	95	74	0	7	4	1		
BARROW	20	14	23	9	17	7	0.04	-0.05	0.04	1.17	122	5.19	134	89	74	0	7	1	0		
FAIRBANKS	17	7	23	-4	12	-9	0.42	0.23	0.18	1.30	80	5.12	56	89	72	0	7	6	0		
JUNEAU	46	42	50	35	44	3	-	-	-	-	-	-	99	91	0	0	-	-			
KODIAK	43	36	46	30	39	1	0.04	-1.55	0.02	9.21	72	49.11	92	86	71	0	2	2	0		
NOME	29	16	34	6	23	-2	0.23	-0.03	0.11	2.79	78	13.65	106	85	60	0	7	3	0		
AZ FLAGSTAFF	53	28	62	24	40	-5	0.16	-0.20	0.14	4.84	145	13.85	76	85	38	0	6	3	0		
PHOENIX	80	61	90	51	70	-2	0.07	-0.07	0.07	0.52	37	3.78	64	57	22	1	0	1	0		
PRESCOTT	63	36	72	28	50	-3	0.01	-0.24	0.01	4.05	139	13.67	84	77	27	0	1	1	0		
TUCSON	76	53	86	40	64	-4	0.40	0.19	0.40	1.83	71	7.20	71	57	27	0	0	1	0		
YUMA	83	63	89	60	73	-1	0.00	-0.06	0.00	4.54	890	5.11	212	55	23	0	0	0	0		
AR FORT SMITH	68	46	77	40	57	-3	0.94	0.09	0.76	6.74	109	33.07	100	98	64	0	0	2	1		
LITTLE ROCK	68	48	78	39	58	-3	1.34	0.53	-	7.59	110	50.64	132	93	56	0	0	3	1		
CA BAKERSFIELD	75	50	87	42	63	-3	0.00	-0.08	0.00	0.30	81	3.29	78	67	32	0	0	0	0		
EUREKA	69	46	66	39	53	-2	0.00	-0.74	0.00	3.75	135	23.89	98	91	70	0	0	0	0		
FRESNO	74	50	83	47	62	-1	0.00	-0.15	0.00	0.22	36	4.21	55	81	34	0	0	0	0		
LOS ANGELES	71	61	77	56	66	0	0.00	-0.10	0.00	0.27	50	5.90	70	84	58	0	0	0	0		
REDDING	76	50	86	46	63	2	0.00	-0.60	0.00	4.83	197	22.82	104	70	27	0	0	0	0		
SACRAM/MCCLELL	76	51	79	43	63	-	0.00	-	0.00	0.39	-	9.90	-	83	37	0	0	0	0		
SAN DIEGO	71	63	75	58	67	0	0.00	-0.11	0.00	0.87	189	4.20	62	79	56	0	0	0	0		
SAN FRANCISCO	66	53	71	51	60	-1	0.00	-0.34	0.00	0.75	71	10.12	76	86	59	0	0	0	0		
CO ALAMOSA	54	22	68	17	38	-3	0.14	-0.01	0.08	2.03	138	6.89	106	85	30	0	7	3	0		
CO SPRINGS	50	30	66	15	40	-8	0.33	0.16	0.17	2.14	105	22.18	146	89	53	0	4	2	0		
DENVER	51	30	67	10	41	-8	1.28	1.04	0.92	2.60	127	19.42	142	81	48	0	2	3	1		
GRAND JUNCTION	60	36	71	30	48	-4	0.24	0.02	0.23	4.06	251	12.48	175	74	38	0	2	2	0		
PUEBLO	67	32	72	19	45	-6	0.98	0.87	0.52	2.00	146	12.62	124	82	42	0	3	4	1		
CT BRIDGEPORT	55	39	65	30	47	-7	0.56	-0.16	0.54	1.29	23	28.31	84	74	42	0	2	2	1		
HARTFORD	54	33	65	26	44	-6	0.38	-0.43	0.37	1.75	26	29.91	84	85	46	0	2	2	0		
DC WASHINGTON	59	43	68	34	51	-7	0.88	0.19	0.43	4.51	78	26.68	84	81	44	0	0	3	0		
DE WILMINGTON	57	37	66	31	47	-7	0.85	0.22	0.48	3.46	60	-	-	82	43	0	1	4	0		
FL DAYTONA BEACH	79	56	84	53	68	-4	0.04	-0.79	0.04	6.88	70	40.72	97	94	46	0	0	1	0		
JACKSONVILLE	76	52	83	48	64	-4	0.29	-0.22	0.29	5.02	52	41.07	89	96	48	0	0	1	0		
KEY WEST	81	73	86	67	77	-2	0.00	-0.92	0.00	7.87	80	33.20	98	78	56	0	0	0	0		
MIAMI	82	67	87	61	75	-3	0.00	-1.15	0.00	14.90	120	62.29	123	85	50	0	0	0	0		
ORLANDO	81	57	89	51	69	-5	0.01	-0.42	0.01	3.35	41	45.30	105	96	45	0	0	1	0		
TAMPA	79	61	85	58	70	-3	0.28	-0.05	0.28	14.10	182	45.79	115	88	54	0	0	1	0		
VALPARAISO/EGLIN	76	55	81	46	65	-1	0.36	-0.18	0.36	3.95	42	52.13	96	86	56	0	0	1	0		
WEST PALM BEACH	82	64	88	58	73	-4	0.00	-1.39	0.00	7.51	54	53.05	101	90	53	0	0	0	0		
GA ATHENS	67	47	72	40	57	-3	2.13	1.39	1.34	10.22	171	40.98	99	97	65	0	0	5	1		
ATLANTA	67	47	75	36	57	-3	2.75	2.06	1.81	7.67	131	41.03	98	95	58	0	0	3	1		
AUGUSTA	68	47	75	41	56	-4	1.28	0.65	0.59	9.63	180	38.70	101	99	71	0	0	5	1		
COLUMBUS	72	52	78	43	62	-2	1.25	0.76	0.95	4.20	84	38.77	92	90	47	0	0	4	1		
MACON	71	48	77	37	59	-3	1.79	1.31	1.33	5.72	126	29.30	79	97	56	0	0	4	1		
SAVANNAH	73	50	78	47	62	-4	0.82	0.14	0.55	6.87	106	42.73	98	99	60	0	0	2	1		
HI HILO	84	67	86	66	76	0	2.39	0.08	0.75	18.19	114	111.71	111	88	61	0	0	7	2		
HONOLULU	87	72	89	69	80	0	0.17	-0.40	0.16	3.28	129	18.52	126	81	53	0	0	2	0		
KAHULUI	88	70	92	66	79	1	-	-	-	-	-	-	-	83	51	1	0	-	-		
LIHUE	83	74	84	71	79	2	-	-	-	-	-	-	-	82	62	0	0	-	-		
ID BOISE	59	35	65	23	47	-3	0.00	-0.18	0.00	0.84	62	9.35	103	74	29	0	2	0	0		
LEWISTON	58	37	63	31	48	-2	0.02	-0.20	0.02	1.65	107	12.72	128	85	42	0	1	1	0		
POCATELLO	54	26	67	18	40	-6	0.51	0.29	0.31	2.99	192	12.18	126	87	37	0	7	2	0		
IL CHICAGO/O'HARE	52	37	66	29	45	-6	0.42	-0.10	0.34	2.94	51	27.26	91	81	50	0	1	3	0		
MOLINE	52	36	63	25	44	-6	0.61	-0.01	0.39	4.81	75	31.15	92	89	56	0	2	3	0		
PEORIA	54	38	65	28	46	-5	0.62	0.06	0.41	4.72	78	27.06	88	85	53	0	2	3	0		
ROCKFORD	50	36	64	32	43	-6	0.24	-0.38	0.24	2.81	46	24.58	79	85	54	0	2	1	0		
SPRINGFIELD	57	38	69	23	48	-5	0.20	-0.36	0.17	4.63	85	23.15	78	89	44	0	1	4	0		
IN EVANSVILLE	58	38	65	27	48	-7	0.49	-0.18	0.37	2.77	53	40.80	116	89	42	0	2	2	0		
FORT WAYNE	53	33	61	28	43	-8	0.01	-0.55	0.01	5.59	120	35.89	126	91	47	0	3	1	0		
INDIANAPOLIS	55	36	63	27	45	-7	0.24	-0.36	0.24	2.73	55	29.44	90	91	47	0	3	1	0		
SOUTH BEND	50	34	62	28	42	-8	0.41	-0.28	0.33	3.92	64	27.77	87	90	51	0	3	3	0		
IA BURLINGTON	-	-	-	-	-	-	0.68	0.05	-	3.33	51	27.67	88	-	-	0	0	0	0		
CEDAR RAPIDS	-	-	-	-	-	-	0.74	0.29	-	5.15	88	23.78	80	-	-	0	2	3	0		
DES MOINES	50	37	69	28	44	-7	1.54	0.99	1.05	6.77	119	29.19	99	91	61	0	3	3	1		
DUBUQUE	49	36	57	26	42	-6	0.01	-0.5													

Weather Data for the Week Ending October 25, 1997

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS							
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL IN. SINCE Sep 1	PCT. NORMAL SINCE Sep 1	TOTAL IN. SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	92 AND BELOW	TEMP. °F		.01 INCH OR MORE	.50 INCH OR MORE	
																		90 AND ABOVE	92 AND BELOW			
KY	WICHITA	58	44	62	34	51	-6	0.54	0.10	0.54	6.86	128	33.05	128	88	62	0	0	1	1	1	0
	JACKSON	58	41	66	29	49	-6	0.40	-0.33	0.40	3.35	54	41.54	103	84	51	0	1	1	1	1	0
	LEXINGTON	57	37	66	26	47	-7	0.72	0.14	0.72	3.66	70	51.32	140	88	48	0	2	1	1	1	1
	LOUISVILLE	59	41	67	30	50	-5	0.59	-0.03	0.59	2.53	48	49.92	137	93	47	0	1	1	1	1	1
LA	PADUCAH	61	40	68	29	50	-6	1.26	0.58	0.56	4.71	77	45.28	114	94	48	0	2	3	3	1	1
	BATON ROUGE	79	55	85	39	67	0	1.74	0.98	1.02	3.80	50	54.54	108	97	58	0	0	2	2	2	2
	LAKE CHARLES	79	59	84	52	69	1	1.15	0.32	1.06	9.81	110	55.26	123	96	62	0	0	2	2	1	1
	NEW ORLEANS	78	59	86	49	69	2	0.19	-0.44	0.14	2.07	26	40.91	80	94	59	0	0	4	0	0	0
ME	SHREVEPORT	79	54	86	47	66	2	4.98	4.11	3.35	9.69	160	59.43	161	96	55	0	0	4	2	2	2
	CARIBOU	44	27	58	21	35	-6	0.21	-0.49	0.12	3.12	53	29.39	101	96	58	0	7	3	0	0	0
	PORTLAND	51	29	56	22	40	-6	0.19	-0.75	0.17	3.51	57	29.09	86	88	48	0	5	3	0	0	0
	BALTIMORE	58	37	70	28	48	-7	0.98	0.31	-	4.09	71	29.51	88	92	50	0	2	3	1	1	1
MA	BOSTON	54	39	59	32	47	-6	0.67	-0.11	0.67	2.20	39	23.30	72	82	48	0	1	1	1	1	1
	WORCESTER	49	33	59	23	41	-7	0.47	-0.52	0.44	2.97	40	27.83	72	85	49	0	3	2	0	0	0
	ALPENA	44	30	61	27	37	-7	0.17	-0.27	0.12	3.82	79	26.18	108	91	59	0	6	5	0	0	0
	GRAND RAPIDS	47	32	60	26	40	-7	0.10	-0.51	0.06	5.93	91	26.20	89	93	61	0	4	2	0	0	0
MI	HOUGHTON LAKE	43	33	57	27	38	-7	0.09	-0.38	0.03	4.56	88	23.61	100	90	64	0	4	5	0	0	0
	LANSING	48	28	60	23	38	-9	0.07	-0.37	0.05	4.14	78	24.07	95	90	57	0	6	2	0	0	0
	MARQUETTE	-	-	-	-	-	-	0.86	0.08	-	3.35	48	26.62	91	-	-	0	0	0	0	0	0
	MUSKEGON	47	32	60	27	39	-9	0.19	-0.42	0.17	3.95	64	22.33	86	90	60	0	4	2	0	0	0
MN	DULUTH	37	28	52	25	33	-8	0.01	-0.50	0.01	3.45	58	21.96	83	77	58	0	6	1	0	0	0
	INT'L FALLS	35	25	46	17	30	-10	0.15	-0.24	0.08	5.81	120	17.25	78	84	63	0	7	3	0	0	0
	MINNEAPOLIS	46	32	55	24	39	-7	0.01	-0.46	0.01	4.87	108	33.08	131	83	57	0	3	1	0	0	0
	ROCHESTER	44	31	52	23	38	-8	0.00	-0.48	0.00	3.49	84	27.92	105	85	58	0	4	0	0	0	0
MS	ST. CLOUD	44	28	56	19	38	-7	0.00	-0.45	0.00	2.70	54	23.07	92	82	51	0	5	0	0	0	0
	JACKSON	76	50	83	38	63	1	1.94	1.18	0.72	6.45	106	48.89	111	99	52	0	0	4	3	3	3
	MERIDIAN	75	45	83	34	60	-2	1.68	0.98	1.09	4.69	79	46.63	102	97	47	0	0	4	1	1	1
	TUPELO	68	43	74	34	56	-5	3.44	2.65	1.93	6.43	102	57.75	131	98	54	0	0	4	2	2	2
MO	COLUMBIA	57	40	70	29	48	-6	0.89	0.19	0.51	5.05	78	31.66	96	87	54	0	1	3	1	1	1
	KANSAS CITY	56	44	62	39	50	-4	0.00	-0.66	0.00	3.68	48	26.11	78	84	61	0	0	0	0	0	0
	SAINT LOUIS	58	42	70	33	50	-6	1.30	0.69	1.02	4.56	87	26.86	88	83	46	0	0	2	1	1	1
	SPRINGFIELD	60	43	71	36	52	-4	1.11	0.34	0.88	7.01	93	33.44	94	91	62	0	0	4	1	1	1
MT	BILLINGS	50	30	60	18	40	-7	0.00	-0.25	0.00	1.70	73	14.02	105	85	49	0	3	0	0	0	0
	BUTTE	47	24	58	10	36	-3	0.14	0.00	0.14	2.51	136	19.54	177	94	46	0	7	1	0	0	0
	GLASGOW	46	26	54	20	36	-7	0.01	-0.11	0.01	1.31	85	11.46	112	84	49	0	7	1	0	0	0
	GREAT FALLS	49	29	61	24	39	-6	0.00	-0.17	0.00	1.13	59	13.55	100	88	51	0	5	0	0	0	0
NE	KALISPELL	51	26	59	21	38	-1	0.05	-0.14	0.05	2.29	117	16.33	123	94	49	0	6	1	0	0	0
	MILES CITY	51	29	61	22	40	-5	0.07	-0.12	0.07	1.26	62	10.24	80	81	49	0	5	1	0	0	0
	MISSOULA	53	28	59	18	41	-1	0.03	-0.14	0.03	1.15	87	13.37	118	88	43	0	6	1	0	0	0
	GRAND ISLAND	52	35	61	28	43	-6	1.31	1.05	1.07	8.76	219	27.66	120	89	61	0	1	2	1	1	1
NV	LINCOLN	54	37	60	32	45	-6	1.59	1.17	0.84	3.94	75	20.45	79	87	62	0	1	3	2	2	2
	NORFOLK	52	32	62	29	42	-6	0.51	0.19	0.28	5.18	135	19.67	85	88	55	0	4	2	0	0	0
	NORTH PLATTE	50	30	67	20	40	-7	0.87	0.68	0.72	4.54	188	17.38	96	89	59	0	5	2	1	1	1
	OMAHA	52	36	59	29	44	-7	2.69	2.26	1.58	9.22	163	27.17	101	93	63	0	2	3	2	2	2
NM	SCOTT'S BLUFF	48	31	64	8	39	-8	1.20	1.03	1.04	2.38	137	19.63	140	85	56	0	3	2	1	1	1
	VALENTINE	48	28	62	14	38	-8	0.12	-0.07	0.10	4.54	197	21.42	126	84	48	0	5	2	0	0	0
	ELY	57	26	70	17	42	-2	0.00	-0.19	0.00	1.73	97	8.09	93	61	23	0	7	0	0	0	0
	LAS VEGAS	77	56	84	52	66	1	0.00	-0.06	0.00	2.06	488	3.50	108	34	13	0	0	0	0	0	0
NH	RENO	65	31	73	22	48	-1	0.00	-0.09	0.00	0.72	114	6.32	114	78	25	0	5	0	0	0	0
	WINNEMUCCA	63	25	72	11	44	-3	0.00	-0.15	0.00	0.51	60	6.87	109	86	21	0	6	0	0	0	0
	CONCORD	52	27	63	18	39	-6	0.32	-0.44	0.32	2.66	50	25.90	90	84	40	0	6	1	0	0	0
	NEWARK	57	41	67	30	49	-7	0.74	0.05	0.63	3.42	58	32.81	91	76	43	0	1	2	1	1	1
NJ	ALBUQUERQUE	63	41	74	28	52	-2	0.06	-0.13	0.05	2.78	159	10.65	137	73	27	0	1	2	0	0	0
	ALBANY	51	32	61	29	41	-7	0.55	-0.10	0.55	6.40	103	25.97	88	92	57	0	4	1	1	1	1
	BINGHAMTON	47	31	57	25	39	-8	0.45	-0.20	0.35	3.63	64	23.45	78	94	57	0	4	3	0	0	0
	BUFFALO	47	34	58	30	41	-8	0.88	0.18	0.70	6.42	108	32.94	108	89	55	0	2	5	1	1	1
NC	ROCHESTER	49	33	58	27	41	-8	0.33	-0.22	0.27	6.11	124	27.22	105	90	52	0	2	2	0	0	0
	SYRACUSE	50	34	57	29	42	-7	0.18	-0.54	0.10	3.72	58	23.65	75	93	61	0	3	4	0	0	0
	ASHEVILLE	59	40	66	29	50	-4	1.10	0.50	0.74	6.26	93	42.28	106	95	59	0	1	3	1	1	1
	CHARLOTTE	66	48	73	39	57	-2	1.40	0.66	1.18	5.79	93	39.43	110	89	51	0	0	4	1	1	1
ND	GREENSBORO	63	42	72	33	53	-4	0.85	0.07	0.75	5.43	85	33.79	95	89	48	0	0	4	1	1	1
	HATTERAS	64	51	69	39	58	-6	1.81	0.68	-	10.31</											

Weather Data for the Week Ending October 25, 1997

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS					
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL IN. SINCE Sep 1	PCT. NORMAL SINCE Sep 1	TOTAL IN. SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	92 AND BELOW	.01 INCH OR MORE		.50 INCH OR MORE
																		TEMP, °F	PRECIP.	
OK TOLEDO	62	33	60	27	42	-7	0.03	-0.44	0.02	5.32	117	34.00	127	92	47	0	3	2	0	0
OK YOUNGSTOWN	51	34	59	28	43	-6	0.17	-0.41	0.09	4.41	79	26.87	87	88	52	0	2	3	0	0
OK OKLAHOMA CITY	64	45	71	34	55	-6	0.96	0.27	0.65	4.80	70	24.72	84	94	61	0	0	3	1	0
OR TULSA	64	46	73	36	54	-6	0.42	-0.36	0.26	5.11	86	35.67	103	94	60	0	0	4	0	0
OR ASTORIA	59	40	82	36	49	-2	0.30	-1.16	0.20	14.89	204	65.58	148	99	68	0	0	2	0	0
OR BURNS	57	21	67	13	39	-3	0.01	-0.17	0.01	0.80	70	7.49	101	80	28	0	7	1	0	0
OR EUGENE	56	35	58	31	45	-7	0.01	-0.91	0.01	6.04	148	30.59	97	92	62	0	2	1	0	0
OR MEDFORD	66	38	72	29	52	-1	0.00	-0.39	0.00	1.92	99	13.37	112	89	34	0	2	0	0	0
OR PENDLETON	59	35	63	29	47	-3	0.27	0.06	0.27	1.70	137	8.47	98	85	38	0	3	1	0	0
OR PORTLAND	60	42	66	38	51	-2	0.02	-0.66	0.02	5.60	150	34.08	141	97	55	0	0	1	0	0
OR SALEM	59	37	63	34	48	-3	0.11	-0.67	0.09	6.36	224	35.89	142	99	60	0	0	3	0	0
PA ALLENTOWN	55	33	66	24	44	-7	0.89	0.04	0.43	5.00	80	32.84	92	86	40	0	3	2	0	0
PA ERIE	50	37	57	34	44	-7	0.37	-0.46	0.16	4.46	60	32.60	98	93	62	0	0	5	0	0
PA MIDDLETOWN	57	39	66	32	48	-4	0.62	-0.02	0.48	3.50	60	25.82	78	86	48	0	1	2	0	0
PA PHILADELPHIA	58	41	66	36	49	-5	0.74	0.16	0.56	2.72	49	25.23	74	74	41	0	0	3	1	0
PA PITTSBURGH	54	32	63	25	43	-7	0.31	-0.21	0.29	3.35	89	26.77	88	85	42	0	4	2	0	0
PA SCRANTON	51	31	60	26	41	-8	0.50	-0.12	0.43	2.83	51	21.77	72	89	50	0	5	2	0	0
PA WILLIAMSPORT	53	34	60	31	44	-8	0.30	-0.45	0.20	3.65	60	22.92	69	90	50	0	1	2	0	0
RI PROVIDENCE	54	36	62	27	45	-6	0.83	-0.02	0.83	2.10	33	30.54	85	85	37	0	2	1	1	0
SC BEAUFORT	71	52	78	46	61	-5	0.28	-0.23	0.11	3.75	52	34.32	76	94	57	0	0	4	0	0
SC CHARLESTON	71	50	78	44	60	-4	0.62	0.03	0.34	11.42	160	51.84	114	94	58	0	0	3	0	0
SC COLUMBIA	68	46	78	40	57	-4	1.14	0.47	0.71	7.42	121	36.90	86	97	60	0	0	6	1	0
SC GREENVILLE	64	47	71	39	56	-3	1.00	0.11	0.33	4.36	61	38.36	90	94	56	0	0	5	0	0
SD ABERDEEN	48	25	55	15	36	-9	0.00	-0.22	0.00	4.18	149	18.74	108	88	53	0	7	0	0	0
SD HURON	50	28	58	22	39	-7	0.00	-0.31	0.00	6.43	217	24.28	130	85	51	0	5	0	0	0
SD RAPID CITY	47	25	60	9	38	-10	0.07	-0.17	0.07	1.26	58	20.46	133	83	51	0	5	1	0	0
SD SIOUX FALLS	47	27	58	22	37	-9	0.00	-0.35	0.00	3.32	73	19.65	90	85	55	0	6	0	0	0
TN BRISTOL	61	37	72	25	49	-5	0.52	-0.06	0.19	3.74	70	36.70	108	97	52	0	2	4	0	0
TN CHATTANOOGA	65	44	72	33	55	-3	2.84	2.12	1.85	8.96	134	49.18	114	97	58	0	0	3	2	0
TN KNOXVILLE	62	42	69	31	52	-4	0.91	0.26	0.38	4.67	88	45.28	118	98	59	0	1	4	0	0
TN MEMPHIS	67	47	76	40	57	-4	1.72	1.02	0.84	10.40	177	64.57	159	89	52	0	0	3	1	0
TN NASHVILLE	63	44	70	32	53	-5	1.01	0.42	0.47	8.22	149	45.43	119	91	55	0	1	3	0	0
TX ABILENE	73	51	88	43	62	-3	1.88	1.36	1.49	2.59	49	22.93	107	72	39	0	0	2	1	0
TX AMARILLO	61	39	72	26	50	-6	0.18	-0.10	0.08	2.11	67	21.69	119	96	54	0	1	3	0	0
TX AUSTIN	80	59	89	56	70	0	0.06	-0.70	0.05	7.08	115	40.09	148	92	46	0	0	2	0	0
TX BEAUMONT	79	62	87	57	70	3	0.57	-0.34	0.44	6.28	64	41.86	90	96	67	0	0	4	0	0
TX BROWNSVILLE	84	68	89	60	76	2	0.01	-0.48	0.01	16.76	198	33.84	144	94	60	0	0	1	0	0
TX CORPUS CHRISTI	81	66	85	58	73	1	0.01	-0.55	0.01	13.72	169	34.00	126	97	68	0	0	1	0	0
TX DEL RIO	80	58	87	51	69	0	0.01	-0.46	0.01	3.78	90	21.72	132	91	41	0	0	1	0	0
TX EL PASO	73	47	82	37	60	-2	0.18	0.05	0.12	1.74	73	7.44	96	83	26	0	0	3	0	0
TX FORT WORTH	74	51	84	45	62	-3	1.96	1.19	1.79	7.64	121	36.98	128	96	55	0	0	2	1	0
TX GALVESTON	78	68	82	63	73	2	0.08	-0.46	0.08	13.93	168	49.15	141	90	69	0	0	1	0	0
TX HOUSTON	79	60	85	54	69	2	0.54	-0.39	0.54	11.98	143	50.93	134	96	63	0	0	1	1	0
TX LUBBOCK	66	43	76	32	54	-5	0.82	0.25	0.43	3.12	74	20.35	119	87	48	0	1	4	0	0
TX MIDLAND	71	49	86	39	60	-2	0.44	0.10	0.44	2.47	60	15.34	114	79	37	0	0	1	0	0
TX SAN ANGELO	77	53	87	48	65	0	0.03	-0.45	0.03	2.38	44	21.24	116	75	31	0	0	1	0	0
TX SAN ANTONIO	80	58	87	52	69	1	0.03	-0.67	0.02	5.96	99	28.63	109	95	46	0	0	2	0	0
TX VICTORIA	80	62	84	59	71	1	0.12	-0.58	0.05	17.68	207	62.78	194	97	61	0	0	4	0	0
TX WACO	79	54	88	51	67	0	0.06	-0.67	0.05	2.64	42	31.06	115	93	45	0	0	2	0	0
TX WICHITA FALLS	68	46	80	37	57	-5	0.72	0.17	0.53	2.89	48	18.73	73	92	53	0	0	5	1	0
UT SALT LAKE CITY	59	37	73	32	48	-3	0.34	0.01	0.17	3.04	124	15.09	114	84	43	0	2	2	0	0
VT BURLINGTON	48	30	58	24	39	-7	0.16	-0.49	0.07	3.77	67	24.33	86	90	49	0	6	4	0	0
VA LYNCHBURG	61	36	70	24	48	-7	0.40	-0.44	0.40	3.80	61	27.12	80	97	48	0	2	1	0	0
VA NORFOLK	63	49	73	38	56	-3	1.48	0.77	0.90	5.11	79	28.65	75	87	53	0	0	4	1	0
VA RICHMOND	61	41	72	31	51	-5	0.80	0.00	0.53	3.37	55	25.73	71	93	53	0	1	3	1	0
VA ROANOKE	60	39	72	27	50	-5	0.33	-0.54	0.16	4.00	60	29.76	87	84	39	0	2	3	0	0
WA WASH/DULLES	58	33	66	23	44	-8	0.79	0.07	0.50	5.24	89	27.79	84	95	53	0	3	2	1	0
WA HANFORD	63	37	65	29	50	-	0.00	0.00	0.00	0.80	145	4.63	111	67	34	0	2	0	0	0
WA OLYMPIA	54	35	59	31	45	-3	0.00	-1.10	0.00	7.39	136	47.88	144	97	68	0	3	0	0	0
WA QUILLAYUTE	57	37	61	31	47	-2	0.20	-2.43	0.19	20.98	162	99.68	137	97	65	0	3	2	0	0
WA SEATTLE-TACOMA	53	41	57	36	47	-4	0.08	-0.76	0.04	6.78	157	35.55	144	97	72	0	0	2	0	0
WA SPOKANE	56	31	60	24	43	-2	0.00	-0.25	0.00	1.73	120	13.57	116	90	42	0	5	0	0	0
WV YAKIMA	60	29	65	26	44	-3	0.00	0.00	0.00	1.07	143	4.87	86	88	38	0	6	0	0	0
WV BECKLEY	52	33	61	18	43	-8	0.44	-0.19	0.40	2.00	35	32.23	94	91	50	0	3	2	0	0
WV CHARLESTON	57	36	68	24	47	-7	0.42	-0.24	0.37	2.43	44	35.88	103	98	53	0	3	2	0	0
WV ELKINS	62	28	63	17	40	-8	0.48	-0.21	0.40	4.50	72	34.52	82	95	51	0	5	2	0	0
WV HUNTINGTON	57	36	68	23	47	-7	0.48	-0.17	0.48	2.17	42	32.65	95	94	47	0	2	1	0	0
WI EAU CLAIRE	44	31	54	26	37	-8	0.14	-0.35	0.14	4.98	84	28.42	96	87	57	0	6	1	0	0
WI GREEN BAY	44	28	52	20	36	-10	0.08	-0.39	0.08	3.58	67	26.33	106	89	59	0	5	1	0	0
WI MADISON	47	34	56	29	40	-6	0.24	-0.21	0.23	2.20	43	25.75	97	89	58	0	4	2	0	0
WI MILWAUKEE	48	35	61	27	42	-6	0.20	-0.32	0.14	3.60	67	30.02	108	86	57	0	2	3	0	0
WY CASPER	47	26	63	13	36	-8	0.32	0.10	0.18	1.84	108	10.98	101	85	49	0	7	3	0	0
WY CHEYENNE	44	28	62	12	36	-9	0.95	0.80	0.57	3.13	166	18.08	144	88	63	0	5	3	1	0
WY LANDER	45	28	57	13	37</															

National Agricultural Summary

October 20 - 26, 1997

HIGHLIGHTS

Dry weather the first part of the week allowed farmers to make good harvest progress throughout the United States. Farmers in the Corn Belt switched to harvesting corn as soybean harvest neared an end. At the end of the week, a major, early-season storm system brought blizzard conditions and snow to the

central Plains and western Corn Belt. In the Southeast, heavy rains fell, hampering harvest but bringing much-needed moisture, as the same storm moved across the region. Below-freezing temperatures heralded an end to the growing season in all but coastal and far southern areas.

Corn: Dry weather for most of the week allowed Corn Belt farmers to make good harvest progress. Farmers in Illinois harvested their State's crop at a near-record pace. In Iowa and Nebraska, growers made good harvest progress until a late-week, early-season storm brought snow and rain. After delaying harvest to reduce drying costs, Indiana farmers began actively harvesting their acreage. Nationwide, corn harvest advanced to 66 percent (%) harvested, well ahead of 44% harvested at this time last year and the 5-year average of 49%. Harvest proceeded well ahead of the normal pace in Iowa, Minnesota, and South Dakota.

Soybeans: Harvest of the national soybean acreage was 85% complete, compared with 72% harvested in 1996 and the average of 77%. Harvest was winding down in most Corn Belt States as all but late-planted or double-crop soybeans remained unharvested. Late-week rains slowed harvest in the Southeast. In Kansas and Nebraska, soybean growers actively harvested fields until a late-week snowstorm halted fieldwork. Michigan soybean growers took advantage of perfect harvest weather and harvested 20% of their State's acreage during the week.

Cotton: Bolls were opening on virtually all of the Nation's cotton acreage. Only a few fields in the Southeast had yet to reach this stage. Harvest passed the half-way mark, 2 percentage points behind 1996 and the average. In Texas, growers made some harvest progress before midweek rains caused delays. Despite wet, cool weather in Tennessee, farmers continued to harvest cotton fields between rainfalls. Harvest progressed ahead of the normal pace in California, Louisiana, and Mississippi, but lagged behind normal elsewhere.

Sorghum: Nearly all of the sorghum acreage was mature. Colorado, New Mexico, and Oklahoma were the only major sorghum-producing States with a significant amount of acreage yet to reach maturity. Sorghum harvest advanced to 72% complete, ahead of 59% harvested in 1996 and the average of 65%. Farmers in the central Plains made rapid harvest progress until a late-week snowstorm halted activity. Harvest in Illinois and Nebraska progressed well ahead of the normal pace. In the Texas plains, harvest was slowed by wet conditions later in the week.

Peanuts: Peanut harvest was 81% complete, 6 points ahead of harvest last year. Peanut harvest neared an end in Alabama, Florida, Georgia, and Virginia. Harvest was most active in Oklahoma, where growers harvested 19% of their State's acreage during the week. Rainfall slowed harvest activities in the other major peanut-producing States.

Winter Wheat: Planting of the 1998 winter wheat crop reached 88% complete, 1 point behind 1996 but equal to the average. Farmers were able to finish planting in Colorado and Nebraska before a late-week blizzard halted fieldwork. The storm also brought snow to Kansas, where 95% of the State's acreage was planted, 2 points behind 1996 and the average. Planting was most active in the Corn Belt, where farmers immediately planted winter wheat after harvesting fall crops. Seventy-two percent of the crop was emerged, equal to 1996 but 2 points ahead of the average. Emergence was active in Illinois and Indiana after rapid planting last week. In Washington, emergence and condition were generally good throughout the State. However, some areas reported weed infestations severe enough to require producers to plow under established stands of wheat. These fields will be seeded to spring wheat next year.

Crop Progress and Condition

Week Ending October 26, 1997

Winter Wheat Percent Planted

	Oct 26 1997	Prev Week	Prev Year	5-Yr Avg
AR	42	30	40	42
CA	5	3	14	8
CO	100	99	99	99
GA	6	3	9	10
ID	94	86	94	91
IL	93	85	74	81
IN	92	81	75	82
KS	95	92	97	97
MI	96	86	91	91
MO	75	61	63	64
MT	98	96	98	93
NE	100	99	100	100
NC	27	18	29	31
OH	94	88	79	88
OK	87	83	93	92
OR	87	81	89	80
SD	100	99	100	100
TX	82	73	94	82
WA	99	99	98	96
ALL	88	83	89	88

These 19 States produced 92% of the 1996 winter wheat crop.

Soybeans Percent Harvested

	Oct 26 1997	Prev Week	Prev Year	5-Yr Avg
AL	46	37	47	36
AR	53	34	49	47
GA	19	16	23	17
IL	97	89	72	87
IN	93	87	65	84
IA	98	94	90	93
KS	82	59	71	74
KY	51	32	33	43
LA	95	86	86	74
MI	80	60	61	64
MN	99	97	98	91
MS	76	69	73	62
MO	75	60	58	64
NE	91	79	97	93
NC	13	12	12	13
OH	91	84	57	81
SC	9	6	9	7
SD	94	82	93	83
TN	39	25	22	31
ALL	85	76	72	77

These 19 States produced 94% of the 1996 soybean crop.

Sorghum Percent Mature

	Oct 26 1997	Prev Week	Prev Year	5-Yr Avg
AR	100	100	100	100
CO	82	74	94	87
IL	98	95	94	94
KS	99	96	96	94
LA	100	100	100	100
MS	100	100	100	100
MO	100	95	96	97
NE	99	96	95	98
NM	88	80	61	76
OK	90	86	89	85
SD	100	99	100	96
TX	97	93	99	97
ALL	97	94	96	95

These 12 States produced 99% of the 1996 sorghum crop.

Sorghum Percent Harvested

	Oct 26 1997	Prev Week	Prev Year	5-Yr Avg
AR	98	95	97	97
CO	30	7	54	39
IL	79	52	29	52
KS	73	52	56	56
LA	100	100	100	99
MS	100	97	100	99
MO	74	59	65	67
NE	79	54	26	49
NM	27	20	6	24
OK	41	35	28	33
SD	70	47	75	58
TX	76	70	74	84
ALL	72	58	59	65

These 12 States produced 99% of the 1996 sorghum crop.

Winter Wheat Percent Emerged

	Oct 26 1997	Prev Week	Prev Year	5-Yr Avg
AR	24	11	20	23
CA	0	0	4	2
CO	94	89	92	93
GA	2	1	6	6
ID	66	54	64	60
IL	67	45	44	53
IN	63	41	48	55
KS	84	77	79	82
MI	74	64	62	68
MO	50	33	39	40
MT	78	74	69	67
NE	99	95	96	98
NC	0	0	15	13
OH	53	37	49	58
OK	65	53	70	66
OR	61	53	61	51
SD	96	95	84	93
TX	62	52	86	66
WA	93	90	92	81
ALL	72	63	72	70

These 19 States produced 92% of the 1996 winter wheat crop.

Corn Percent Harvested

	Oct 26 1997	Prev Week	Prev Year	5-Yr Avg
CO	66	53	63	45
GA	98	97	96	97
IL	79	59	48	59
IN	49	25	31	46
IA	76	49	32	43
KS	91	78	79	79
KY	77	75	79	81
MI	9	7	20	26
MN	78	59	49	40
MO	82	69	69	64
NE	63	45	42	44
NC	91	87	91	91
OH	27	13	21	35
PA	30	25	34	34
SD	58	32	34	32
TX	98	93	97	98
WI	28	13	23	31
ALL	66	48	44	49

These 17 States produced 90% of the 1996 corn crop.

Peanuts Percent Harvested

	Oct 26 1997	Prev Week	Prev Year	5-Yr Avg
AL	95	93	80	NA
FL	98	97	89	NA
GA	94	88	87	NA
NC	64	50	66	NA
OK	62	43	60	NA
SC	76	69	80	NA
TX	51	40	49	NA
VA	94	88	91	NA
ALL	81	73	75	NA

These 8 States produced 99% of the 1996 peanut crop.

Crop Progress and Condition

Week Ending October 26, 1997

Cotton Percent Bolls Opening				
	Oct 26 1997	Prev Week	Prev Year	5-Yr Avg
AL	98	97	98	93
AZ	100	100	100	100
AR	97	95	100	98
CA	100	100	100	100
GA	92	89	94	93
LA	100	100	100	100
MS	100	100	100	100
MO	100	100	100	99
NM	100	100	100	99
NC	95	93	100	99
OK	93	73	78	79
SC	95	91	99	97
TN	100	100	100	100
TX	94	90	90	86
ALL	96	93	95	93
These 14 States produced 99% of the 1996 cotton crop.				

Cotton Percent Harvested				
	Oct 26 1997	Prev Week	Prev Year	5-Yr Avg
AL	45	37	66	58
AZ	56	45	43	58
AR	62	41	78	69
CA	60	40	49	50
GA	42	35	53	47
LA	96	92	92	85
MS	78	61	87	75
MO	64	43	68	69
NM	15	10	31	25
NC	27	18	48	45
OK	14	12	18	26
SC	30	22	63	47
TN	58	42	76	63
TX	38	30	27	40
ALL	51	40	53	53
These 14 States produced 99% of the 1996 cotton crop.				

Winter Wheat Crop Condition by Percent					
	VP	P	F	G	EX
AR	0	3	27	63	7
CA	0	0	55	45	0
CO	3	7	20	46	24
GA	0	0	28	68	4
ID	0	0	2	89	9
IL	0	3	26	60	11
IN	2	8	37	48	5
KS	0	2	15	68	15
MI	0	3	37	55	5
MO	0	2	31	59	8
MT	7	16	39	37	1
NE	1	6	30	54	9
NC	0	1	17	74	8
OH	2	8	36	49	5
OK	0	1	23	74	2
OR	0	0	10	87	3
SD	0	1	7	63	29
TX	2	7	26	55	10
WA	0	4	23	68	5
ALL	1	4	23	62	10
Prev Wk	1	3	26	60	10
Prev Yr	0	3	26	58	13

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

National crop conditions for selected States are weighted based on 1996 planted acres.

Record Snowstorm Across the Central Plains

Imagine living in Colorado Springs and waking up one October morning to see heavy snow out your window, a temperature of 15°F, and a 37-mph wind yielding a wind chill of -28°F. Are you dreaming? Not if it was Saturday, October 25, 1997. This was the actual 8 a.m. hourly weather observation. At the same time, Denver was enduring 17°F and on the way to a 22-inch snowfall, the greatest October snowfall since 1923. The Denver suburbs tallied as much as 30 inches, and 3 to 4 feet fell in some higher elevations. The storm total of 19.9 inches at Colorado Springs was the fourth highest ever for any month. Adding insult to injury, the temperature plummeted to 3°F in Denver after the storm ended on Sunday morning, shattering the old record of 10°F set in 1878.

The storm that whipped across the Plains from Wyoming down to New Mexico and eastward to Nebraska, Kansas, and Iowa on Friday and Saturday, and Wisconsin and Michigan on Sunday and Monday ultimately left hundreds of thousands of people without electricity and was blamed for at least 16 deaths, according to news reports. In Nebraska, most residents across south-central Nebraska and north-central Kansas woke up Sunday morning unable to leave their own homes. Traffic came to a halt and numerous trees and tree limbs, many still with their leaves, fell victim to the heavy snow. Power outages were widespread. Up to 24 inches of snow fell in Nebraska, with as much as 17 inches on the ground in Kansas. In Iowa, tens of thousands of households were hit by power outages across central, south-central, and southwest sections, with snow totals ranging up to 12 inches. This was the most widespread heavy snowfall in Iowa for so early in the season since October 16-17, 1898.

Drier, milder weather followed the storm, allowing the snow to quickly melt. However, the many people affected by the snow, wind, and low temperatures may be wondering if this is a portent of the winter to come.

--Douglas Le Comte

State Agricultural Summaries

These summaries, issued weekly through the summer growing season, 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. The crop weather reports are also available on the Internet through the NASS Home Page on the World Wide Web at <http://www.usda.gov/nass/> or from JAWF at <http://www.usda.gov/ocel/waob/jawf>.

ALABAMA: Days suitable for fieldwork 5.2. Topsoil 12% very short, 25% short, 55% adequate, 8% surplus. Wheat planted 31%, 29% 1996, 37% avg. Livestock 3% poor, 35% fair, 58% good, 4% excellent. Cool weather conditions prevailed, with much-needed rain falling on 24th to help small grain seed germination, plant growth.

ARIZONA: Alfalfa harvest activity 7% light, 16% moderate 66% active, 11% not being harvested; 1% poor, 19% fair, 50% good, 30% excellent. Carrots, broccoli, green onions, iceberg lettuce, mixed greens, cantaloupe, honeydews, watermelons harvested in central area. Iceberg lettuce, cantaloupe, honeydew harvested in western area. Chili peppers, iceberg lettuce harvested in eastern area.

ARKANSAS: Days suitable for fieldwork 5. Soil moisture 1% very short, 13% short, 71% adequate, 15% surplus. Main farming: Harvesting rice, cotton, soybeans, planting wheat, winter pastures. Other farm activities: Weaning, selling calves, fertilizing cool season grasses, liming forage crops, harvesting hay. Alfalfa hay 8% poor, 32% fair, 58% good, 2% excellent. Other hay 2% very poor, 20% poor, 38% fair, 37% good, 3% excellent. Pasture feed 3% very poor, 16% poor, 40% fair, 39% good, 2% excellent.

CALIFORNIA: Field activities made good progress with favorable weather in most areas. Ground preparation for planting small grains, forage crops, new alfalfa gained momentum. Wheat, oat planting continued in some locations. Rice harvest was virtually complete in the Sacramento Valley, rapidly winding down in the San Joaquin Valley. Rice stubble was disced, reflooded, or burned where conditions permitted. Cotton harvest neared completion in the Imperial, Sacramento Valleys, while the San Joaquin Valley harvest was progressing normally. Harvested cotton fields were shredded, disced for pink bollworm control. Corn for grain and silage, dry beans, and old crop sugar beets were harvested. Grain sorghum was drying, nearly ready for harvest. New crop sugar beet planting continued in the San Joaquin Valley, as the Imperial Valley seeding was completed. New alfalfa was planted; established alfalfa was sprayed for worms. Alfalfa, sudan grass were cut for hay or green chopped. Harvest of grapes for juice, wine use continued to decline. Some varieties of table grapes were still being harvested, packed. Walnut, pistachio harvests were nearly complete. Post-harvest pruning began in some orchards. Apple harvest was winding down, with a few Granny Smith, Fuji varieties still being picked. Picking of pomegranates, persimmons was active; good color, quality were noted. Navel orange, grapefruit, pomelo harvesting continued. Kiwifruit harvest was nearly half completed. Broccoli, cauliflower were harvested in the Salinas-Watsonville area. Lettuce harvest in Monterey County was winding down. Artichokes, brussels sprouts continued to be harvested in the central coast area. Cauliflower, broccoli, spinach showed good progress with cool evenings, in excellent growing conditions. White flies were a problem in the desert areas. Sweet potato harvest ended in Fresno County. Harvest of fresh market tomatoes in the San Joaquin Valley progressed normally. Harvesting of sweet corn fields was declining rapidly in Tulare County. Garlic was planted on the west side of Fresno County. Asparagus was sprayed for aphid control in the Merced-Atwater area. Pumpkin harvesting progressed. Honeydew, cantaloupe harvests were completed in the central San Joaquin Valley. Imperial Valley cantaloupe, honeydew melon harvest continued. Other crops harvested were onions, radishes, vineseed, eggplant, squash, okra, green beans. Pasture, rangeland were still dry, generally in poor condition across most of the State. Early-fall rains, mild temperatures caused slight improvement to

conditions in the north, higher elevations. Supplemental feeding was necessary over most of the State. Ranchers began moving livestock from higher elevation summer pastures. Livestock were in good condition, with calving, early lambing in progress.

COLORADO: Days suitable for fieldwork 4.5. Topsoil 3% very short, 18% short, 73% adequate, 6% surplus. Subsoil 10% very short, 30% short, 56% adequate, 4% surplus. Producers experienced excellent conditions during the beginning of the week for development of the winter wheat, sorghum crops. Also, conditions were ideal for harvest of late-season crops. However, weather changed dramatically starting on the 24th morning as a severe snowstorm covered much of State, halted all field activities. Eastern plains were blanketed with snowfall ranging from 15 to 35 inches. High winds caused 8 to 12 foot high drifts in areas that received more significant amounts. Livestock were obviously stressed by the adverse weather but no evaluation of loss has been determined. Sugar beets 64% harvested, 80% 1996, 74% avg. Dry beans 96% threshed, 100% 1996, 99% avg. Alfalfa 68% 4th cutting, 71% 1996, 57% avg.

DELAWARE: Days suitable for fieldwork 3.7. Topsoil 12% short, 87% adequate, 1% surplus. Subsoil 49% short, 51% adequate. Field corn 71% harvested for grain, 80% 1996, 82% avg. Soybeans 92% shedding leaves, 82% 1996, 90% avg.; 29% harvested, 23% 1996, 31% avg. Sorghum 25% harvested, 26% 1996, 28% avg. Barley 19% fair, 80% good, 1% excellent; 90% seeded, 68% 1996, 67% avg. Wheat 7% fair, 90% good, 3% excellent; 50% seeded, 20% 1996, 33% avg. Hay 22% very short, 32% short, 46% adequate. Alfalfa 45% harvested 5th cutting, 49% 1996, 42% avg. Pasture feed 1% very poor, 23% poor, 58% fair, 18% good. Activities: Harvest of lima, snap beans ended early in week, frost on October 23 ended growth on soybeans, moisture helped small grain seedings.

FLORIDA: Topsoil mostly very short to short Panhandle, northern Peninsula. Central, southern Peninsula moisture short to adequate. Sugarcane growth normal. Cotton picking, soybean harvest active. Dry weather hurting last hay cutting. First sugarcane mill open, others will open by first week in November. Ninety-eight percent peanuts harvested. Cooler weather helped vegetables set more fruit, most southern Peninsula localities. Vegetables marketed during week include snap beans, sweet corn, cucumbers, eggplant, endive, escarole, lettuce, okra, peppers, radishes, squash, tomatoes. Citrus groves, trees, fruit enjoying fall weather. Very little rain, lots of irrigation. New growth slowed, good color break on early fruit. Fresh fruit packing houses very busy. About half of processors open. Caretakers cutting cover crops, spraying, fertilizing, herbiciding. Pasture feed 5% very poor, 5% poor, 30% fair, 60% good. Cattle 5% poor, 15% fair, 80% good. Many ranchers in Panhandle held off planting small grains for winter forage because soil too dry. Hay being fed to supplement poor pastures. Northern counties: Planting of winter pasture continued as weather permitted. Central area: Hay harvesting continued, ranchers preparing land for winter annual pasture. South: Pastures generally in good condition.

GEORGIA: Days suitable for fieldwork 5.1. Soil moisture 5% very short, 25% short, 60% adequate, 10% surplus. Cotton 4% very poor, 14% poor, 37% fair, 39% good, 6% excellent. Hay 2% very poor, 14% poor, 46% fair, 37% good, 1% excellent. Peanuts 5% very poor, 21% poor, 49% fair, 20% good, 5% excellent; 98% dug, 95% 1996, 96% avg. Rye 60% planted, 60% 1996, 61% avg. Sorghum 4% very poor, 15%

poor, 50% fair, 30% good, 1% excellent; 68% harvested for grain, 59% 1996, 74% avg. Soybeans 16% very poor, 25% poor, 38% fair, 20% good, 1% excellent; 93% dropping leaves, 94% 1996, 95% avg. Other small grains 41% planted, 43% 1996, 44% avg. Apples 1% very poor, 6% poor, 9% fair, 79% good, 5% excellent; 94% harvested, 98% 1996, 93% avg. Pecans 3% very poor, 24% poor, 39% fair, 29% good, 5% excellent; 17% harvested, 15% 1996, 13% avg. Widespread rainfall 24th improved soil moisture levels in most areas. Rains over weekend of 25th, 26th added further to soil moisture levels. Major row crop area remains the driest. Frost extreme northern mountains, mountains near end of period. Harvesting, planting progress normal. Overall, crop conditions held steady from the previous week. Activities: Overseeding pastures, preparing land for small grain seeding, harvesting fall vegetables, taking soil, nematode samples, mowing cotton stalks, winterizing equipment.

HAWAII: Weather fair for agriculture. Sunny to partly sunny. Most rainfall limited to windward areas. Banana orchards continued to benefit from weather. Persimmon harvest starting. Papaya harvesting active, seasonally low. Head cabbage active. Harvesting may slow due to seasonal weather change. Tomato production lower, premature termination of some fields. Cucumber harvest moderate to heavy, improved condition due to cooler temperatures.

IDAHO: Days suitable for fieldwork 6.1. Topsoil 1% surplus, 85% adequate, 13% short, 1% very short. Cool temperatures, some snow delayed fieldwork, final potato harvest. Potatoes harvested 96%, 98% 1996, 96% avg. Apples harvested 82%, 85% 1996, 84% avg. Sugar beets harvested 67%, 50% 1996, 62% avg. Corn harvested for silage 99%, 97% 1996, 95% avg.; for grain 32%, 27% 1996, 37% avg. Irrigation water supply 30% excellent, 55% good, 15% fair. Activities: Harvesting sugar beets, corn for grain, apples, plowing, preparing seed beds, seeding winter grains.

ILLINOIS: Days suitable for fieldwork 6.2. Topsoil 9% very short, 39% short, 52% adequate. Corn harvest continued at a near record pace last week as ideal harvest conditions prevailed statewide, until 26th when 1 to 4 inches of snow fell in northern areas. Soybean harvest nearing completion, with only double crop beans, late-season varieties still standing. Light rains that have fallen across the State the past 2 weeks have helped the winter wheat crop emerge. Most areas have enough moisture to get their winter wheat crop emerged, significant amounts of moisture are still needed before subsoils will be recharged. Fall tillage progressed, many operators were also applying anhydrous ammonia. Other activities last week included spreading lime; fertilizer, manure; preparing livestock facilities for winter, applying for commodity loans, completing paperwork for the fall CRP enrollment at local FSA offices.

INDIANA: Days suitable for fieldwork 6.4. Topsoil 15% very short, 45% short, 39% adequate, 1% surplus. Subsoil 17% very short, 42% short, 40% adequate, 1% surplus. Soybean harvest has slowed to a modest pace, while corn harvest has moved into full swing. Many farmers have been delaying corn harvest in order to reduce drying costs. Most of the remaining soybeans were planted late or on double crop acres. Tobacco 97% harvested, 100% 1996, 100% avg. Activities: Harvesting soybeans, corn, wheat seedbed preparation, planting, tilling harvested soybean, corn acreage, caring for livestock.

IOWA: Days suitable for fieldwork 6.2. Topsoil 4% very short, 21% short, 73% adequate, 2% surplus. Subsoil 9% very short, 31% short, 59% adequate, 1% surplus. Crops are out of the fields in many sections of State; rain, snow slowed harvest in other areas. Fall fertilizer, tillage in full swing. Corn acreage harvested 76%, 32% 1996, 43% avg. Soybean acreage harvested 98%, 90% 1996, 93% avg. Field corn moisture 18%; harvested corn moisture 17%. Of corn yet to be harvested, lodging 23% none, 39% light, 31% moderate, 7% heavy; ear droppage 22% none, 43% light, 30% moderate, 5% heavy. Grain

movement 12% none, 32% light, 46% moderate, 10% heavy. Grain storage availability off-farm 13% short, 83% adequate, 4% surplus; on-farm 15% short, 82% adequate, 3% surplus. Completion of 1998 row crop fall tillage 21%, 10% 1996, 15% avg.; fall fertilizer applied 17%, 10% 1996, 12% avg. Winter wheat planted 88%, 87% 1996, 88% avg. Livestock good condition. Cattle moving to corn fields. Some flu in hogs. Range, pasture unchanged. Pasture feed 6% very poor, 21% poor, 37% fair, 31% good, 5% excellent.

KANSAS: Days suitable for fieldwork 5.6. Topsoil 1% very short, 21% short, 72% adequate, 6% surplus. Subsoil 2% very short, 22% short, 75% adequate, 1% surplus. A blizzard hit western areas on October 25, causing considerable drifting. Hardest hit areas appear to be the area north, west of a line from Liberal to Dodge City to Hays to Mankato. Feedlots in the area suffered varying losses. Corn 3% poor, 18% fair, 66% good, 13% excellent. Sorghum 1% very poor, 2% poor, 17% fair, 63% good, 17% excellent. Soybeans 2% poor, 19% fair, 64% good, 15% excellent. Sunflowers 1% very poor, 1% poor, 28% fair, 62% good, 8% excellent; mature 99%; harvested 70%. Stock water 2% very short, 14% short, 82% adequate, 2% surplus. Major field activities: Seeding wheat, fall harvest. Livestock producers are weaning, moving cattle off pastures to crop residue, winter pastures.

KENTUCKY: Days suitable for fieldwork 5.4. Topsoil 30% very short, 41% short, 29% adequate. Subsoil 29% very short, 47% short, 23% adequate, 1% surplus. Growing season came to end on 23rd, with temperatures in mid to upper 20's over most State. Weekend rains slowed corn, soybean harvest, brought burley into case for stripping, benefited seeded winter wheat. Burley stripping advanced to 14%, 19% 1996, 18% avg.; 1% very poor, 7% poor, 43% fair, 43% good, 6% excellent. Quality, weight stripped tobacco generally fair to good. Winter wheat 67% seeded, 65% 1996, 62% avg. Germinated wheat 2% very poor, 6% poor, 37% fair, 43% good, 12% excellent. Pasture feed 15% very poor, 34% poor, 32% fair, 17% good, 2% excellent. Many livestock farmers feeding hay to supplement pastures. About two-thirds livestock operations anticipate adequate winter hay supply.

LOUISIANA: Days suitable for fieldwork 5.7. Soil moisture 5% very short, 29% short, 58% adequate, 8% surplus. Hay 100% second cutting, 100% 1996, 98% avg. Pecans 12% very poor, 12% poor, 42% fair, 32% good, 2% excellent; 27% harvested, 24% 1996, 16% avg. Rice 99% harvested, 100% 1996, 99% avg.; harvest was nearing completion in the northern parishes, while in the southern parishes second crop harvest was active. Soybeans 100% dropping leaves, 100% 1996, 96% avg. Sugarcane 2% poor, 27% fair, 55% good, 16% excellent; 25% harvested, 16% 1996, 21% avg. Harvesting was in full swing, with good sucrose levels reported in most areas. Sweet potatoes 83% harvested, 80% 1996, 77% avg. Wheat 32% planted, 18% 1996, 19% avg.; 13% emerged, 8% 1996, 9% avg. Planting was active after rains brought much-needed moisture. Livestock 9% poor, 40% fair, 48% good, 3% excellent. Cattlemen marketed heavier calves, culled cows for the winter. Vegetables 4% very poor, 19% poor, 48% fair, 29% good. Harvesting of cucumbers was active. Pasture condition: Rye grass seeding was active.

MARYLAND: Days suitable for fieldwork 5.1. Topsoil 10% very short, 16% short, 67% adequate, 7% surplus. Subsoil 21% very short, 29% short, 49% adequate, 1% surplus. Field corn 61% harvested for grain, 80% 1996, 74% avg. Soybeans 93% shedding leaves, 95% 1996, 94% avg.; 40% harvested, 33% 1996, 38% avg. Sorghum 47% harvested, 43% 1996, 43% avg. Barley 2% very poor, 8% poor, 11% fair, 68% good, 11% excellent; 85% seeded, 79% 1996, 83% avg. Rye 4% very poor, 3% poor, 20% fair, 64% good, 9% excellent; 67% seeded, 62% 1996, 62% avg. Wheat 7% very poor, 7% poor, 12% fair, 69% good, 5% excellent; 43% seeded, 43% 1996, 51% avg. Apples 87% harvested, 76% 1996, 85% avg. Hay supplies 25% very short, 37% short, 37% adequate, 1% surplus. Alfalfa hay 95% 4th cutting, 97% 1996, 96% avg.; 40% 5th cutting, 62% 1996, 51% avg. Clover, other

hays 79% 4th cutting, 79% 1996, 65% avg. Activities: Small grain planting continued, frost on 23rd ended growth on soybeans, soil moisture improved from precipitation.

MICHIGAN: Days suitable for fieldwork 6.5. Topsoil 1% very short, 20% short, 77% adequate, 21% surplus. Subsoil 1% very short, 21% short, 77% adequate, 1% surplus. Temperatures well below normal. Frost hit many areas of the State, ending the growing season. Overall, weather was perfect for harvesting field crops. Little precipitation across the State allowed many unharvested crops to dry down. Soybean 3% very poor, 9% poor, 34% fair, 40% good, 14% excellent. All hay 4th cutting harvested 93%, 73% 1996, 66% avg. Corn silage harvested 98%, 99% 1996, 91% avg. Sugarbeet harvest 75%, 32% 1996, 50% avg. Pasture feed 21% very poor, 30% poor, 37% fair, 24% good, 7% excellent.

MINNESOTA: Days suitable for fieldwork 5.9. Topsoil 1% very short, 7% short, 85% adequate, 7% surplus. Corn 78% harvested, 49% 1996, 40% avg.; 19% moisture content, 22% 1996, 24% avg.; 48% stubble worked, 19% 1996, 18% avg. Soybeans 76% stubble worked, 68% 1996, 48% avg. Sunflowers 76% harvested, 85% 1996, 73% avg. Sugar beets 97% harvested, 99% 1996, 93% avg. Pasture feed 3% very poor, 20% poor, 36% fair, 38% good, 3% excellent.

MISSISSIPPI: Days suitable for fieldwork 4.5. Soil moisture 2% very short, 8% short, 61% adequate, 29% surplus. Soybeans 97% shedding leaves, 96% 1996, 94% avg.; 76% harvested, 73% 1996, 62% avg.; 2% very poor, 6% poor, 30% fair, 49% good, 13% excellent. Sweet potatoes 77% harvested, 81% 1996; 83% avg.; 2% poor, 38% fair, 50% good, 10% excellent. Pecans 39% harvested, 20% 1996, 19% avg.; 3% poor, 19% fair, 75% good, 3% excellent. Wheat 53% planted, 66% 1996, 50% avg.; 26% emerged; 3% very poor, 4% poor, 21% fair, 71% good, 1% excellent. Cattle 2% very poor, 5% poor, 19% fair, 64% good, 10% excellent. Pasture feed 3% very poor, 14% poor, 31% fair, 46% good, 6% excellent. Activities: Harvesting corn, cotton, rice, soybeans, planting wheat.

MISSOURI: Days suitable for fieldwork 5.5. Topsoil 5% very short, 17% short, 72% adequate, 6% surplus. Showers statewide, snowfall in some northern counties halted row crop harvesting late in the week, progress of corn, sorghum, soybean harvesting remains ahead of average. Bean harvesting most advanced northeast, central, north-central districts with 92%, 84%, 82%, respectively. Bean harvesting least advanced in the southern third of the State ranging from 56-64%. Corn harvesting complete in the southern third of the State, while the northern third is least advanced ranging from 64-73%. Sorghum harvesting most advanced in the southern third of the State, ranging from 89-94%, while the central district is least advanced at 34%, followed by northwest, northeast districts at 58%. Pasture feed 2% very poor, 11% poor, 34% fair, 51% good, 2% excellent.

MONTANA: Days suitable for fieldwork 5.2. Topsoil 5% very short, 35% short, 57% adequate, 3% surplus. Subsoil 8% very short, 44% short, 46% adequate, 2% surplus. Seeding of winter wheat is virtually complete. Row crop harvest is in final stages. Some late fall tillage still being done. Potatoes harvested 90%, 91% 1996, 91% avg. Sugar beets harvested 93%, 96% 1996, 86% avg. Cattle, calves moved from summer ranges 64%, 74% 1996, 71% avg. Sheep, lambs moved from summer ranges 79%, 75% 1996, 76% avg.

NEBRASKA: Days suitable for fieldwork 6.2. Subsoil 7% very short, 26% short, 65% adequate, 2% surplus. Topsoil 2% very short, 18% short, 72% adequate, 8% surplus. Row crop harvest activities came to an abrupt halt over the weekend as an early season storm dumped record levels of snow in eastern, southern counties. Soybean harvest progress continued slow as producers kept attention on corn and sorghum. Corn 63% harvested, 42% 1996, 44% avg.; additional stalk breakage due to high winds, heavy snow. Soybeans 91% combined, 97% 1996, 93% avg. Sorghum 79% harvested, well ahead of 26%

1996, 49% avg. Sugarbeet harvest in full swing. Alfalfa 2% very poor, 11% poor, 33% fair, 52% good, 2% excellent; 92% 4th cutting. Winter wheat condition improved 1% very poor, 6% poor, 30% fair, 54% good, 9% excellent; Pasture feed, range 6% very poor, 17% poor, 29% fair, 44% good, 4% excellent. Cattle on stalks finding little to graze as a result of extensive snowcover; supplemental feeding necessary until snow melts.

NEVADA: Pasture, range forage supplies remain good. Final cutting of hay nearly complete. Field leveling, seeding of winter grains continued. Alfalfa 4th cutting advancing, 5th cutting nearing completion south. Corn harvest well along. Potato harvest continued. Onion harvest complete. Garlic planting underway. Calves being marketed, moved to feedlots. Main farm, ranch activities: Haying, potato harvest, marketing calves.

NEW ENGLAND: Days suitable for fieldwork 5.3. Topsoil 3% very short, 25% short, 70% adequate, 2% excellent. Subsoil 5% very short, 24% short, 71% adequate. Pasture feed 8% poor, 26% fair, 61% good, 5% excellent. Maine potatoes 95% harvested, 99% 1996, 99% avg.; condition good. Massachusetts potatoes 100% harvested, 99% 1996, 99% avg.; condition good. Rhode Island potatoes 100% harvested, 90% 1996, 99% avg.; condition good to excellent. Oats in Maine 95% harvested, 100% 1996, 100% avg.; condition good. Barley in Maine 95% harvested, 100% 1996; condition good. Field corn 90% harvested, 90% 1996, 95% avg.; condition good. Sweet corn 100% harvested, 100% 1996, 100% avg.; condition good. Second cut hay 95% harvested, 95% 1996, 99% avg.; condition good to fair. Hay 3rd cut 95% harvested, 85% 1996, 95% avg.; condition good. Apples 95% harvested, 95% 1996, 95% avg.; fruit size avg.; condition good to excellent. Pears 99% harvested, 99% 1996; fruit size avg.; condition good. Cranberries 95% harvested, 95% 1996; fruit size avg. to above avg.; condition good to excellent. Killing frosts end growing season in most areas. Harvest season winding down. Major farm activities: Harvesting field corn, cranberries, apples; spreading manure; disking down harvested fields; spreading lime, fertilizer.

NEW JERSEY: Days suitable for fieldwork 6. Topsoil short. Main farming activities: Planting cover crops, harvesting fall vegetables. Light, declining volume of beans, cucumbers, eggplant, tomatoes, squash. Moderate to good volume of peppers, cabbage, lettuce (all types), beets, herbs, endive, escarole, parsley, pumpkins, spinach. Harvesting of soybeans, corn for grain, silage continue. Pasture feed poor to good. Cranberry harvest is nearing completion. Apple harvest continues with a good supply of apples.

NEW MEXICO: Days suitable for fieldwork 6.0. Topsoil 1% very short, 23% short, 75% adequate, 1% surplus. Hay producers were working on the last cutting of the year. Alfalfa 2% poor, 36% fair, 61% good, 1% excellent; 6th cutting 72% complete, 64% 1996. Cotton progress remained behind schedule for the year 15% harvested, 31% 1996, 25% avg.; 3% poor, 26% fair, 61% good, 10% excellent. Sorghum harvest was ahead of normal for this time of the year, 27% complete, 6% 1996, 24% avg.; 88% mature, 61% 1996, 76% avg.; 35% fair, 65% good. Red chile harvest 36% complete, 35% 1996; 32% fair, 58% good, 10% excellent. Corn 5% fair, 90% good, 5% excellent; 82% of grain harvested, 71% 1996. With almost all the wheat crop emerged 28% fair, 72% good; 96% emerged, 99% 1996, 87% avg. Expectations remain high among pecan producers; 1% poor, 25% fair, 54% good, 20% excellent. Fall onion planting was completed. Lettuce harvest continued, with 50% of the fall crop harvested; 20% fair, 50% good, 30% excellent. Cattle, sheep remained in mostly good condition. Range, pasture feed 1% very poor, 3% poor, 23% fair, 68% good, 5% excellent.

NEW YORK: Days suitable for fieldwork 5.8. Soil moisture 50% short, 50% adequate. Pasture feed 25% poor, 50% fair, 25% good. Alfalfa 3rd cutting near completion. Corn 100% good; silage 97% harvested, 94% 1996, 99% avg. Grain corn 38% harvest complete, 27% 1996,

24% avg. Dry beans 90% harvested. Potato harvest continued. Onions being moved into storage. Late-season vegetables being harvested. Grape harvest winding down apple harvest near completion.

NORTH CAROLINA: Days were suitable for fieldwork 4.7. Soil moisture 4% very short, 16% short, 70% adequate, 10% surplus. Significant rains fell across the State slowing harvests of soybeans, corn, cotton, planting of small grains. However, small grains will benefit from the added boost in soil moisture. Many areas of the State experienced their first killing frost. Activities included: Harvesting, burning, marketing of flue-cured tobacco; harvesting burley tobacco, apples, sweet potatoes, cotton, soybeans, corn; digging, harvesting peanuts; cutting silage; cutting, baling hay; planting, preparing land for planting of small grains; maintaining pastures; tending livestock; repairing equipment.

NORTH DAKOTA: Days suitable for fieldwork 5. Topsoil 13% very short, 24% short, 55% adequate, 8% surplus. Subsoil 13% very short, 31% short, 51% adequate, 5% surplus. Producers made excellent progress on late-season crop harvest before isolated rain, snow showers delayed fieldwork at weekend. Late-season crop harvest continued at a pace ahead of average, with sugar beet harvest expected to be completed this week. Corn for grain 72% harvested, 57% 1996, 51% avg. Sugar beets 97% lifted, 99% 1996, 95% avg. Sunflower 84% harvested, 77% 1996, 57% avg. Pasture feed improved slightly to 15% very poor, 32% poor, 36% fair, 17% good. Fall tillage, chemical applications were major activities, while weaning, marketing calves kept ranchers busy.

OHIO: Days suitable for fieldwork 6.8. Topsoil 15% very short, 43% short, 42% adequate. Corn 95% matured, 91% 1996, 96% avg.; harvested for grain 4 days ahead of 1996; harvested for silage 90%, 85% 1996, 93% avg. Soybeans harvested 1 week ahead of the avg. Winter wheat seeded 5 days ahead of the avg.; emerged 1 day behind avg. Tobacco 6% stripped. Fall, winter apples 84% harvested. Potatoes 98% harvested, 96% 1996, 93% avg. Grapes 92% harvested. Hay 1% very poor, 12% poor, 35% fair, 45% good, 7% excellent. Activities: Corn drying; hauling, binning grain; late garden vegetable harvesting; baling corn stalks; applying lime, anhydrous ammonia; hauling, spreading manure; fall tillage; cider pressing; early fall ornamental tree digging; firewood cutting. Northern part: Growers are harvesting pumpkins.

OKLAHOMA: Days suitable for fieldwork 4.3. Topsoil 20% short, 68% adequate, 12% surplus. Subsoil 1% very short, 11% short, 84% adequate, 4% surplus. Cold weather hindered row crop progress, wheat growth. Oats 57% planted, 67% 1996, 64% avg.; 33% up to stand, 23% 1996, 36% avg. Corn 99% harvested, 100% 1996, 97% avg. Soybeans 45% harvested, 55% 1996, 46% avg. Peanuts 91% mature, 89% 1996, 87% avg.; 41% combined, 42% 1996. Alfalfa hay 95% 4th cutting, 97% 1996, 99% avg.; 43% 5th cutting, 53% 1996, 66% avg.; All other hay 82% 2nd cutting, 100% 1996, 100% avg. Livestock 4% poor, 18% fair, 73% good, 5% excellent. Feeder steer prices down \$1 to \$3 per cwt.

OREGON: Days suitable for fieldwork 6.9. Topsoil 30% short, 65% adequate, 5% surplus. Subsoil 36% short, 64% adequate. Winter wheat 10% fair, 87% good, 3% excellent; planted 87%, 89% 1996, 80% avg.; emerged 61%, 61% 1996, 51% avg. Activities: On the west side harvest of field corn for silage, final hay cuttings nearly finished. Herbicide applications made to newly planted grass seed fields, ryegrass, sugar beets for seed up, looking good. Eastside growers working stubble fields, continued planting in the Mid-Columbia area. Some mint being seeded in northeast, along with some fall reseeding. Sugar beet harvest continued in Malheur County. Nursery, greenhouse field activity heavy during good weather. Nurseries digging, balling, planting, getting ready for bareroot digging. Most of the Easter lily crop harvested. Western pumpkin patches were ready for Halloween and processing. Harvest nearly complete, except for cole crops, cauliflower,

carrots. Onions in sheds, being prepared for sales. Potatoes still being harvested on east side. Willamette Valley hazelnut, walnut harvests winding down, apple harvest completed, berries prepared for winter. Rogue River Valley apples, grape harvests continued. South coast cranberry harvest winding down. Hood River Valley tree fruit harvest completed, grape harvest continued. Livestock condition reported mostly good to excellent in west, good to fair in east. Western countries' pastures continued to provide good fall forage. Eastern range country cattle movement to market, to low elevation ranges continued. Calf weaning also continued.

PENNSYLVANIA: Days suitable for fieldwork 5.8. Soil moisture 10% very short, 40% short, 45% adequate, 5% surplus. Good week for fieldwork. Ensilage corn 90% harvest, 92% 1996, 90% avg. Soybean 40% harvest, 26% 1996, 36% avg.; 4% very poor, 18% poor, 45% fair, 28% good, 5% excellent. Wheat 87% planted, 73% 1996, 82% avg.; 65% emerged, 43% 1996, 41% avg. Barley 98% planted, 92% 1996, 93% avg.; 70% emerged, 64% 1996, 60% avg. Potato 90% harvest, 86% 1996, 89% avg. Alfalfa 76% 4th cutting, 75% 1996, 72% avg. Quality of hay made 1% very poor, 10% poor, 40% fair, 45% good, 4% excellent. Apple 80% harvest, 81% 1996, 86% avg. Grape 80% harvest, 89% 1996, 90% avg. Fall 81% plowing, 74% 1996, 78% avg. Activities: Harvesting fruits, vegetables; making hay and haylage; filling silos; seeding barley and wheat; plowing fields; cleaning, repairing, storing machinery; hauling manure; caring for livestock.

SOUTH CAROLINA: Days suitable for fieldwork 4.5. Soil moisture 13% short, 60% adequate, 27% excellent. Apples 95% harvested, 96% 1996, 92% avg.; 49% fair, 51% good. Barley 57% planted, 44% 1996, 37% avg.; 43% emerged, 31% 1996, 24% avg.; 3% fair, 97% good. Oats 54% planted, 47% 1996, 46% avg.; 41% emerged, 33% 1996, 31% avg.; 3% poor, 26% fair, 51% good, 20% excellent. Pecans 23% harvested, 34% 1996; 66% fair, 34% good. Rye 63% planted, 48% 1996, 47% avg.; 45% emerged, 35% 1996, 33% avg.; 42% fair, 49% good, 9% excellent. Sorghum 84% harvested, 88% 1996, 71% avg.; 1% very poor, 14% poor, 47% fair, 38% good. Sweet potatoes 84% harvested, 51% 1996, 55% avg.; 1% very poor, 2% poor, 45% fair, 51% good, 1% excellent. Tobacco 99% stalks destroyed, 96% 1996, 96% avg. Winter grazing 78% planted, 74% 1996, 68% avg.; 54% emerged, 53% 1996, 49% avg.; 2% very poor, 5% poor, 39% fair, 49% good, 5% excellent. Winter wheat 32% planted, 15% 1996, 11% avg.; 22% emerged, 8% 1996, 5% avg.; 3% poor, 18% fair, 70% good, 9% excellent.

SOUTH DAKOTA: Days suitable for fieldwork, 5.8. Topsoil 1% very short, 8% short, 85% adequate, 6% surplus. Subsoil 2% very short, 8% short, 81% adequate, 9% surplus. Stock water 2% short, 91% adequate, 7% surplus. Major activities: Farmers, ranchers harvesting row crops for grain, fall tilling, servicing machinery for storage, moving hay, livestock, weaning calves. Corn 3% poor, 16% fair, 48% good, 33% excellent. Sorghum 1% poor, 8% fair, 67% good, 24% excellent. Sunflower 3% poor, 13% fair, 59% good, 25% excellent. Winter rye 1% poor, 9% fair, 53% good, 37% excellent. Livestock 8% fair, 70% good, 22% excellent. Winter rye 99% emerged, 92% 1996, 97% avg. Sunflower 81% harvested, 81% 1996, 65% avg.

TENNESSEE: Days suitable for fieldwork 4.5. Topsoil 2% very short, 16% short, 74% adequate, 8% surplus. Subsoil 2% very short, 19% short, 73% adequate, 6% surplus. Corn 95% grain harvested, 96% 1996, 90% avg. Tobacco 32% burley stripped, 33% 1996, 35% avg. Winter wheat 49% seeded, 50% 1996, 48% avg. Pasture feed 1% very poor, 11% poor, 33% fair, 47% good, 8% excellent. Despite the wet weather, cooler-than-normal temperatures, farmers made their way around the adversities, into fields. Cotton harvest continued between rainfalls, as producers brought in an additional 16% of the States acreage. Soybean growers fared well last week, with harvest now past the 5-year average pace. Corn harvest is about complete in western areas, with the remaining left to be harvested in middle, eastern areas. Burley tobacco stripping is ongoing, as producers had time away from

fields, yet progress remains slightly behind schedule. Moisture from recent rains has helped prepare ground, allowed farmers to sow wheat at a steady pace. Pastures have also benefited from the rains, are showing some improvement.

TEXAS: Conditions wet northern areas during week, while mild, open conditions covered central, southern areas. Fieldwork slowed in Plains, North Central areas by wet conditions. Added moisture will benefit small grains, pastures. Remaining harvest activities and land preparation moved ahead central, southern areas without much delay. Small Grains: Most planting completed in plains, the added moisture during week aided emergence, growth. Rains across north-central areas improved planting moisture. Emergence increased on previously planted fields. Corn harvest winding down most fields prior to wet conditions. Cotton producers were well into harvest in High Plains. However, wet fields at midweek caused some delays. Producers north-central made some harvest progress before rains came. Grain sorghum in Plains, harvest slowed in Plains by wet conditions late week. Cooler temperatures slowed maturity on later fields. Peanuts wet fields north-central areas slowed harvest for part week. Harvest began, made good progress fields south-central. Good yields, moderate grades have occurred. Cool, cloudy wet conditions slowed final rice harvest operations along Upper Coast. Soybeans good yields reported from High Plains producers, where harvest slowed midweek. Harvest later varieties delayed at midweek by wet conditions. Sugarbeet harvest progressed slowly Plains as wet conditions limited fieldwork. Cooler temperatures beneficial to sugar levels.

Commercial Vegetables: Rio Grande Valley, some producers irrigating. However, recent rains have alleviated need many fields. San Antonio-Winter Garden, a few more watermelons harvested during week. Land preparations, planting continued most week. East, sweet potato harvest continued, some producers have completed operations for year. Trans-Pecos, harvest chilies, bell peppers continued. Pecan harvest began many more areas. Yields continued good most groves. However, quality only marginal some areas.

Range and Livestock: Small grain, native pastures showed increased growth last week most areas, with recent rains, cooler temperatures. Livestock conditions remained good with supplemental feeding increasing. Markets fallen off last few weeks.

UTAH: Days suitable for fieldwork 5. Topsoil 12% short, 87% adequate, 1% surplus. Subsoil 11% short, 86% adequate, 3% surplus. Winter wheat emerged 88%, 93% 1996, 79% avg. Corn 90% mature stage, 93% 1996, 91% avg.; 65% harvested for grain, 69% 1996, 52% avg. Alfalfa hay 84% 4th cutting, 96% 1996, 96% avg. Apples picked 97%, 88% 1996, 88% avg. Cattle moved from summer range 89%, 92% 1996, 93% avg. Major farm, ranch activities: Harvesting hay, harvesting corn for grain, picking fruit, moving cattle from summer ranges.

VIRGINIA: Days suitable for fieldwork 4.4. Topsoil 13% short, 72% adequate, 15% surplus. Subsoil 2% very short, 35% short, 63% adequate. Corn 95% mature, 100% 1996, 100% avg.; 67% harvested, 74% 1996, 78% avg.; 98% silage harvested, 97% 1996, 98% avg. Soybeans 82% dropping leaves; 22% harvested, 14% 1996, 21% avg.; 20% very poor, 25% poor, 38% fair, 15% good, 2% excellent. Cotton 22% harvested, 29% 1996, 33% avg. Fall apples 82% harvested, 96% 1996, 91% avg. Winter apples 68% harvested, 63% 1996, 71% avg. Flue tobacco 98% harvested, 100% 1996, 100% avg. Peanuts 94% dug, 91% 1996, 91% avg.; 81% combined, 79% 1996, 80% avg. Barley 58% seeded, 73% 1996, 70% avg. Winter wheat 18% seeded, 24% 1996, 33% avg. Pasture feed 8% very poor, 20% poor, 47% fair, 23% good, 2% excellent. Livestock 2% poor, 38% fair, 56% good, 4% excellent. Widespread rain showers fell across most of State by weekend. Recent rains coupled with cool temperatures brought

adequate moisture supply levels throughout most of the State. Despite the rain, some localities remain short. Some localities reached freezing temperatures on 23rd, bringing heavy frost to many localities. Some peanut producers rushed to finish their crop as they were threatened by the recent frost. Most remaining flue-cured tobacco acreage was damaged by the frost, putting an end to harvest in those localities. Fall seeded grains that were running behind 1996 and the 5-year average due to previous dry conditions are now being slowed due to excess levels of moisture supplies. Vegetable producers on the Eastern Shore continue harvesting snap beans, cucumbers, tomatoes, peppers, sweet potatoes, pumpkins. Other activities include tobacco curing, stripping, marketing.

WASHINGTON: Days suitable for fieldwork 6.6. Topsoil 15% short, 75% adequate, 10% surplus. Subsoil 4% short, 95% adequate, 1% surplus. Winter wheat 99% planted, 97% 1996, 97% avg.; 93% emerged, 92% 1996, 81% avg. Winter wheat planting essentially completed. Emergence looked good, conditions were reported as generally good throughout the State. Some areas infestations of cheat grass were severe enough to require producers to plow under established stands of winter wheat. Fields will be seeded to spring wheat. Corn 100% good; grain 20% harvested, 17% 1996, 32% avg.; silage 99% harvested, 97% 1996, 97% avg. Potatoes 14% fair, 81% good, 5% excellent; 95% harvested, 93% 1996, 88% avg. Dry beans 100% good; 98% harvested, 100% 1996, 97% avg. Hay, other roughage supplies 2% short, 88% adequate, 10% surplus. Western Washington dairy farmers continued green chop, silage operations. Range, pasture feed 5% very poor, 10% poor, 50% fair, 35% good. Central areas apple harvest was nearly completed. Grape harvest was expected to be completed by November 15. Processor reports indicated sweet corn yields were average, quality was good. General preparations for winter were underway throughout the State. Western areas reported pumpkin, other late vegetable harvests were continuing. Christmas tree growers were tagging trees for harvest.

WEST VIRGINIA: Days suitable for fieldwork 4.8. Topsoil 15% very short, 35% short, 50% adequate. Corn 15% very poor, 23% poor, 27% fair, 35% good; 50% harvested grain, 40% 1996, 67% avg. Hay 3rd cutting 90%, 77% 1996, 95% avg. Soybeans 74% fair, 26% good; 44% harvested grain, 30% 1996, 50% avg. Wheat planted 52%, 87% 1996, 62% avg. Cattle 1% poor, 27% fair, 67% good, 5% excellent. Sheep 3% poor, 24% fair, 68% good, 5% excellent. Activities: Harvesting corn; hay, pasture clipping, winter wheat planting, marketing livestock, general maintenance.

WISCONSIN: Days suitable for fieldwork 5.7. Soil moisture 1% very short, 18% short, 75% adequate, 6% surplus. Hay, roughage 10% short, 83% adequate, 7% surplus. Polk County overall hay supplies may be tight, corn silage will help supplement any forage shortage. Hay supplies should be adequate, there is not much quality hay to spare. Some farmers in Grant, Richland counties were still making hay after the frost to make up for shortages going into the winter. Soybean harvest 95% complete, 79% 1996, 70% avg. Cranberry harvest was nearly done in Wood County. Potato harvest was also wrapping up, good yields, quality crop in Waushara County. Other activities included: Manure hauling, chisel plowing, grain drying, making hay, and soybean straw. Fall tillage 29% complete, 27% 1996, 31% avg. Pasture feed 10% poor, 35% fair, 46% good, 9% excellent.

WYOMING: Days suitable for fieldwork 4.9. Topsoil 1% very short, 9% short, 84% adequate, 6% surplus. Subsoil 2% very short, 18% short, 80% adequate. Corn for grain 29% harvested, 64% 1996, 50% avg. Sugar beets 93% harvested, 96% 1996, 84% avg. Range, pasture feed 2% very poor, 4% poor, 12% fair, 69% good, 13% excellent. Livestock moved from summer pastures: Cattle 85%; sheep 90%.

International Weather and Crop Summary

October 19 - 25, 1997

HIGHLIGHTS

FSU-WESTERN: Generally dry weather helped summer crop harvesting in Ukraine, while a cooling trend promoted cold hardening in winter grains.

EUROPE: Drier weather favored fieldwork in the north and east.

NORTHWESTERN AFRICA: Preparations for winter grain planting continued over the region.

AUSTRALIA: Continued dryness favored spring fieldwork, but a local heat wave accelerated winter grain maturity in the southeast.

SOUTH ASIA: Unseasonable showers across the northwest threatened quality of cotton and other maturing summer crops.

SOUTH AFRICA: Dryness returned to much of the corn belt, enabling fieldwork.

SOUTHEAST ASIA: Scattered showers brought limited drought relief to Java, where main-season rice planting has been delayed.

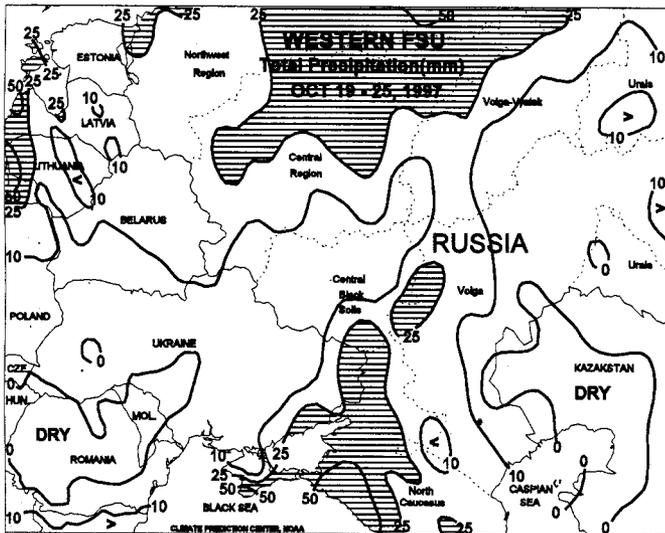
EASTERN ASIA: Rain boosted topsoil moisture for germinating winter wheat across the southern North China Plain, but dry weather prevailed to the north.

SOUTH AMERICA: Drier weather eased wetness and favored fieldwork across extreme southern Brazil and central Argentina.

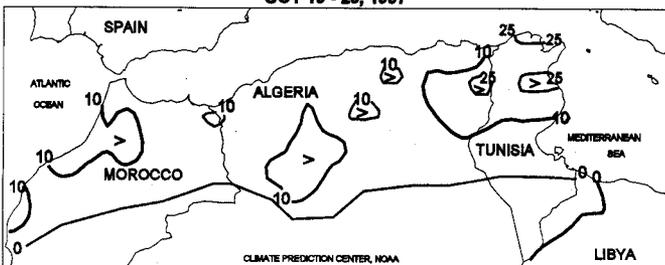
MEXICO: Seasonably drier weather aided summer crop maturation and harvesting.

FSU-WESTERN

Periods of rain and some snow spread from the Baltic States and Belarus eastward through northern Russia (Northwest Region, Central Region, Volga Vyatsk, and the upper Volga Valley), maintaining favorable moisture conditions for winter grains. Precipitation generally ranged from 10 to 25 mm, with higher amounts (more than 25 mm) reported in the northern portion of the Central Region. Weekly temperatures in these areas averaged 2 to 4 degrees C, halting further growth in winter grains but providing favorable conditions for cold hardening prior to dormancy. Typically, winter grains in these areas begin entering dormancy in late October. Farther south, generally dry weather in key sugarbeet-producing areas of the Central Black Soils Region in Russia favored harvesting. However, wet weather (10-46 mm, with local amounts in excess of 50 mm) continued to hamper sugar beet and sunflower harvesting in the lower Volga Valley and the North Caucasus region. In Ukraine, dry weather helped summer crop harvesting over most of the country, except in the extreme east, where light to moderate rain (10-40 mm) fell. The dry weather helped summer crop harvesting. Subfreezing temperatures (-2 to -5 degrees C) as far south as southern Ukraine ended the summer growing season and prompted hardening in winter grains. Typically, winter grains in Ukraine begin entering dormancy in mid-November. In cotton-growing areas of Central Asia, unseasonably warm, dry weather continued to favor rapid cotton harvesting.

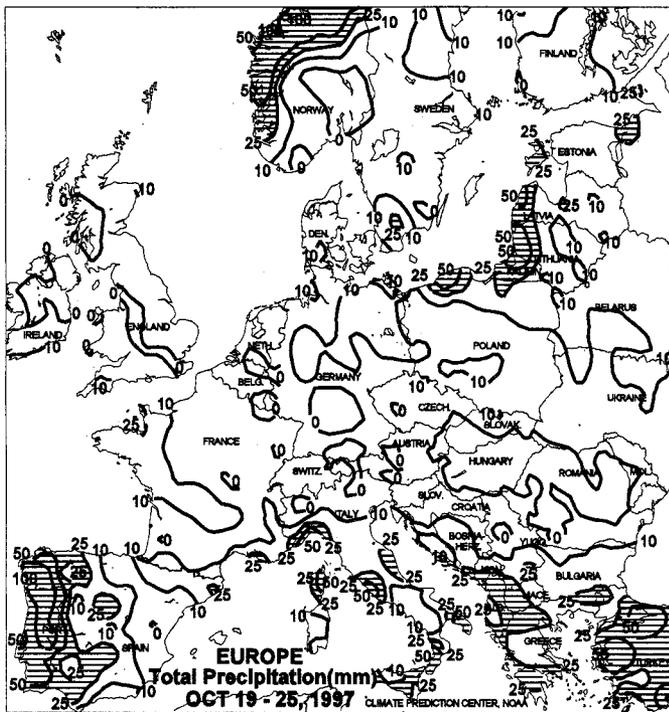


NORTHWEST AFRICA Total Precipitation (mm)
OCT 19 - 25, 1997



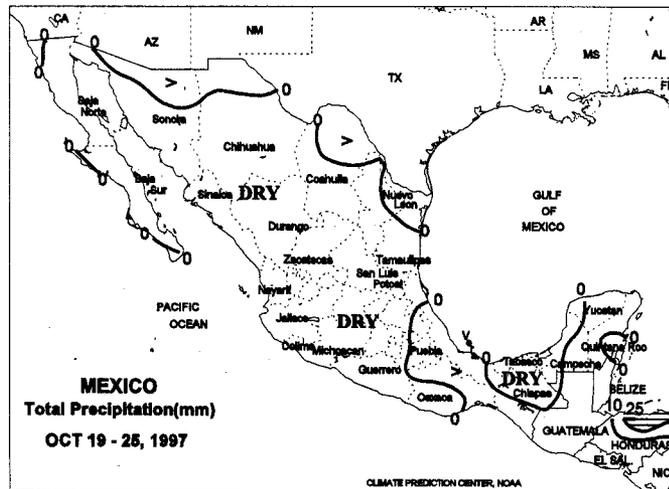
NORTHWESTERN AFRICA

Preparations for winter grain planting continued over the region. Light to moderate showers (10-25 mm, with local amounts in excess of 25 mm) continued to condition topsoils for early planting in Algeria and northern Tunisia. Winter grain planting can begin as early as late-October if soil moisture is sufficient. Most of the crop, however, is usually planted from mid-November to mid-December, when autumn rains become more consistent. Elsewhere, light scattered showers (around 10 mm) fell in Morocco, while mostly dry weather prevailed over western Algeria.



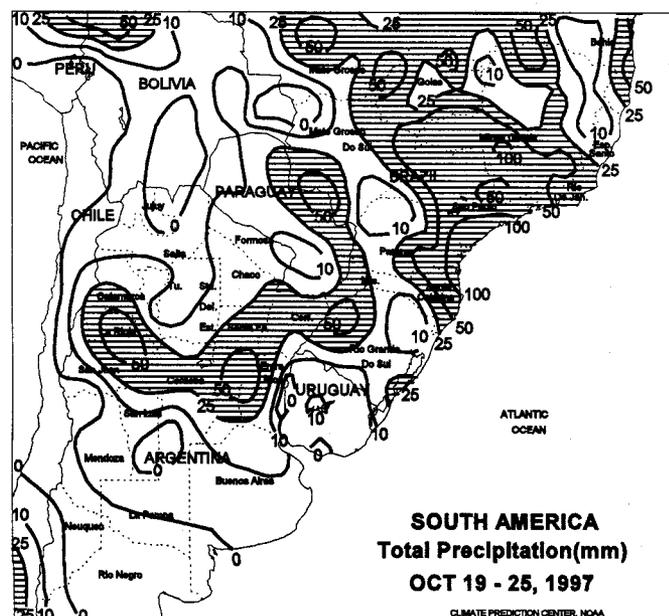
EUROPE

Generally dry weather (less than 10 mm) helped summer crop harvesting and winter wheat planting in the United Kingdom, France, the Benelux countries, Germany, and Italy's Po Valley. Light showers (10-31 mm) in northwestern France and northeastern Germany caused only brief delays in fieldwork. Moderate to heavy rain (25-50 mm, with local amounts in excess of 100 mm) hampered summer crop harvesting in Portugal and adjacent areas in western Spain. Continued light showers (10-25 mm) in peninsular Italy helped to condition topsoils for upcoming wheat planting in November. Wet weather (19-53 mm) late in the week in Greece slowed cotton harvesting. In eastern Europe, mostly dry weather in the Czech Republic, Slovakia, Hungary, and Romania helped late-summer crop harvesting. Late in the week, light to moderate showers fell in Bulgaria, favoring winter grain emergence and establishment. By week's end, widespread frost and freezing temperatures extended from northeastern France eastward into Poland and southward into Bulgaria. Weekly temperatures averaged 2 to 5 degrees C below normal in these areas, slowing vegetative growth of winter grains.



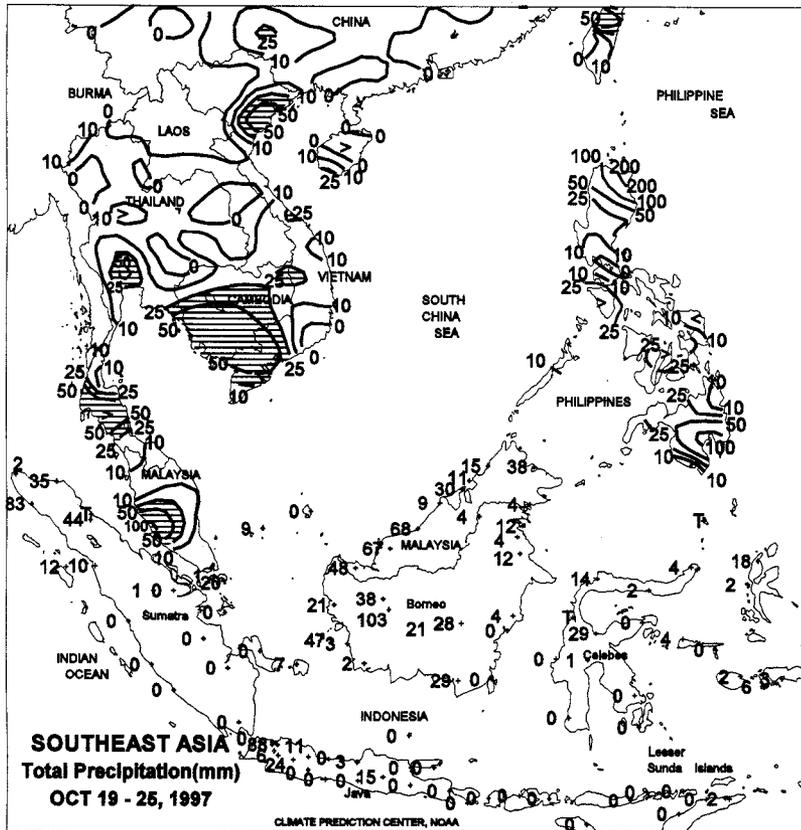
MEXICO

Seasonably drier weather (less than 5 mm) covered most of the country, favoring early corn harvesting. Temperatures averaged 1 to 2 degrees C above normal across the eastern half of Mexico.



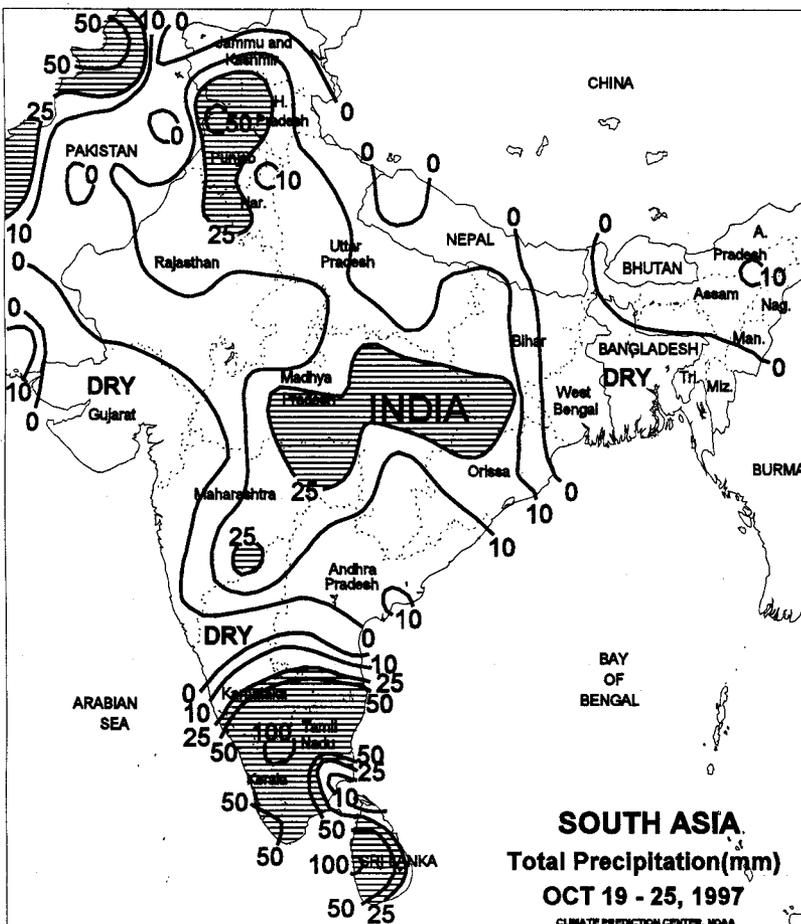
SOUTH AMERICA

Drier weather (5-30 mm) eased wetness and favored summer crop planting across Rio Grande do Sul, Brazil (soybeans) and Buenos Aires, Argentina (corn and sunflowers). The drier weather also aided winter wheat harvesting in southern Brazil. Elsewhere in southern Brazil, moderate showers (10-75 mm) boosted topsoil moisture for soybean planting. In Santa Fe, Argentina, rain (20-75 mm) increased soil moisture reserves, which had been tending below average. Moderate showers (25-50 mm) benefited germinating cotton across northern Argentina. Temperatures averaged 1 to 2 degrees C above normal across central Argentina and southern Brazil.



SOUTHEAST ASIA

Scattered showers (5-25 mm) brought limited drought relief to Java, where main-season rice planting has been delayed. However, dry weather continued to worsen the drought across southern Sumatra. Seasonably drier weather (less than 10 mm) prevailed across northern Thailand and portions of northern Vietnam. Moderate showers (10-90 mm) were reported in coastal northern Vietnam (Red River Delta). Peninsular Malaysia received beneficial showers (25-125 mm) for oil palm. In the Philippines, the heavy rainfall (50-200 mm) in northern Luzon was due to Typhoon Ivan, which hit early in the week. Elsewhere across the Philippines, rainfall continued to average below normal, reducing moisture supplies.

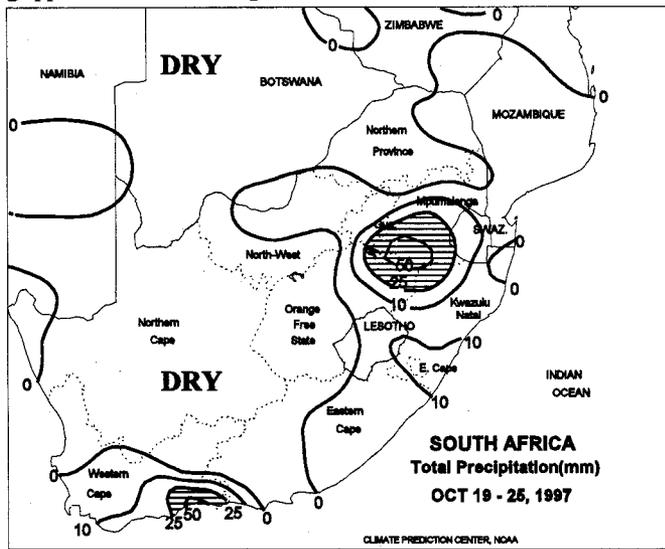


SOUTH ASIA

Despite the withdrawal of the southwest monsoon, scattered, locally heavy showers (10-50 mm or greater) covered a large area from Pakistan to central India. In the northwest, the rainfall raised concern for maturing cotton and possibly resulted in some local damage. In central India, the moisture mainly affected soybeans and rice. Seasonable dryness continued in Gujarat's groundnut basin and oilseed and cotton areas of Andhra Pradesh. Dry weather also continued over far eastern rice areas of India and Bangladesh, favoring rice harvesting and dry-season transplanting. Heavy rain (50-100 mm) lingered over India's extreme southern tip.

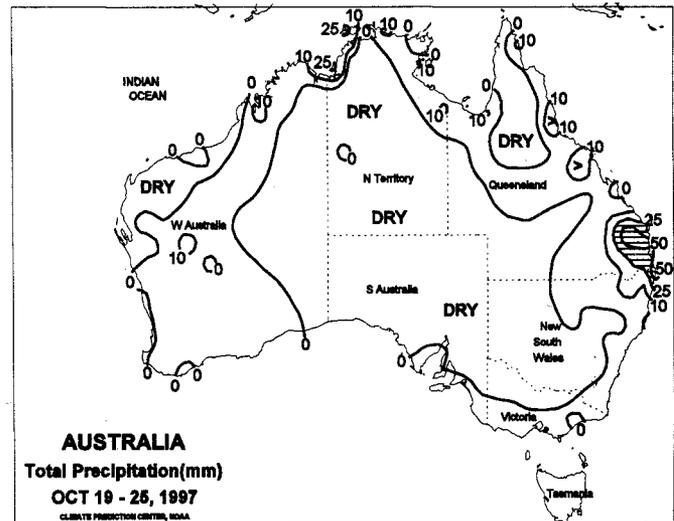
SOUTH AFRICA

Dry weather dominated much of the corn belt, following last week's beneficial rainfall. The exception was a portion of the northeast centered over Mpumalanga, which received an additional 10 to 50 mm. Planting likely made good progress across northern and eastern sections of the corn belt, as much of the south awaited sufficient rainfall for germination. In the driest areas, temperatures averaged 1 to 2 degrees C above normal, with highs typically ranging from the upper 20's C in eastern corn areas to the low 30's farther west. A return to lighter showers (10 mm or less) also aided fieldwork in sugarcane areas of Kwazulu-Natal. Elsewhere, locally heavy rain (10-50 mm or more) in eastern sections of Western Cape hampered fieldwork, but brought some relief from the unseasonable warmth that gripped the rest of the region.



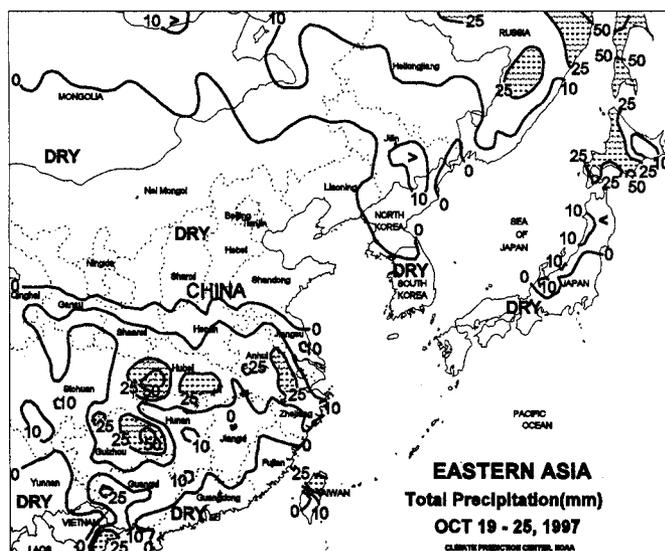
AUSTRALIA

Dry weather continued throughout the southeast. In addition, temperatures averaged near to above normal, with highs reaching the low to mid 30's C across winter grain areas from South Australia to southern New South Wales. While favoring crop drydown and harvesting, the heat hastened maturity of winter grains that could still benefit from late-season showers. Farther north, dryness continued over most summer crop areas, although coastal rain (10-50 mm) extending westward from southern sugarcane areas nearly reached the Darling Downs. Consequently, the moisture benefited only easternmost sorghum and cotton areas. In Western Australia, scattered, light showers (5 mm or less in most areas) caused only brief fieldwork delays. Rainfall was generally light (15 mm or less) throughout most of New Zealand, although pockets of moderate rain (10-25 mm or more) covered central sections of North Island.



EASTERN ASIA

Late-week rain (5-20 mm) benefited germinating winter wheat across the southern North China Plain (southern Henan and northern Anhui and Jiangsu). Continued dry, warm weather (temperatures 2-4 degrees C above normal, with highs in the upper 20's and lower 30's) elsewhere across the North China Plain reduced moisture supplies for wheat growth. Rain (5-30 mm) boosted topsoil moisture for winter grain and oilseed planting across the Yangtze Valley, while causing only minor delays to late double-crop rice harvesting. Dry, warm weather (temperatures 4-6 degrees C above normal) favored rice harvesting across extreme southern China, the Korean Peninsula, and Japan.



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