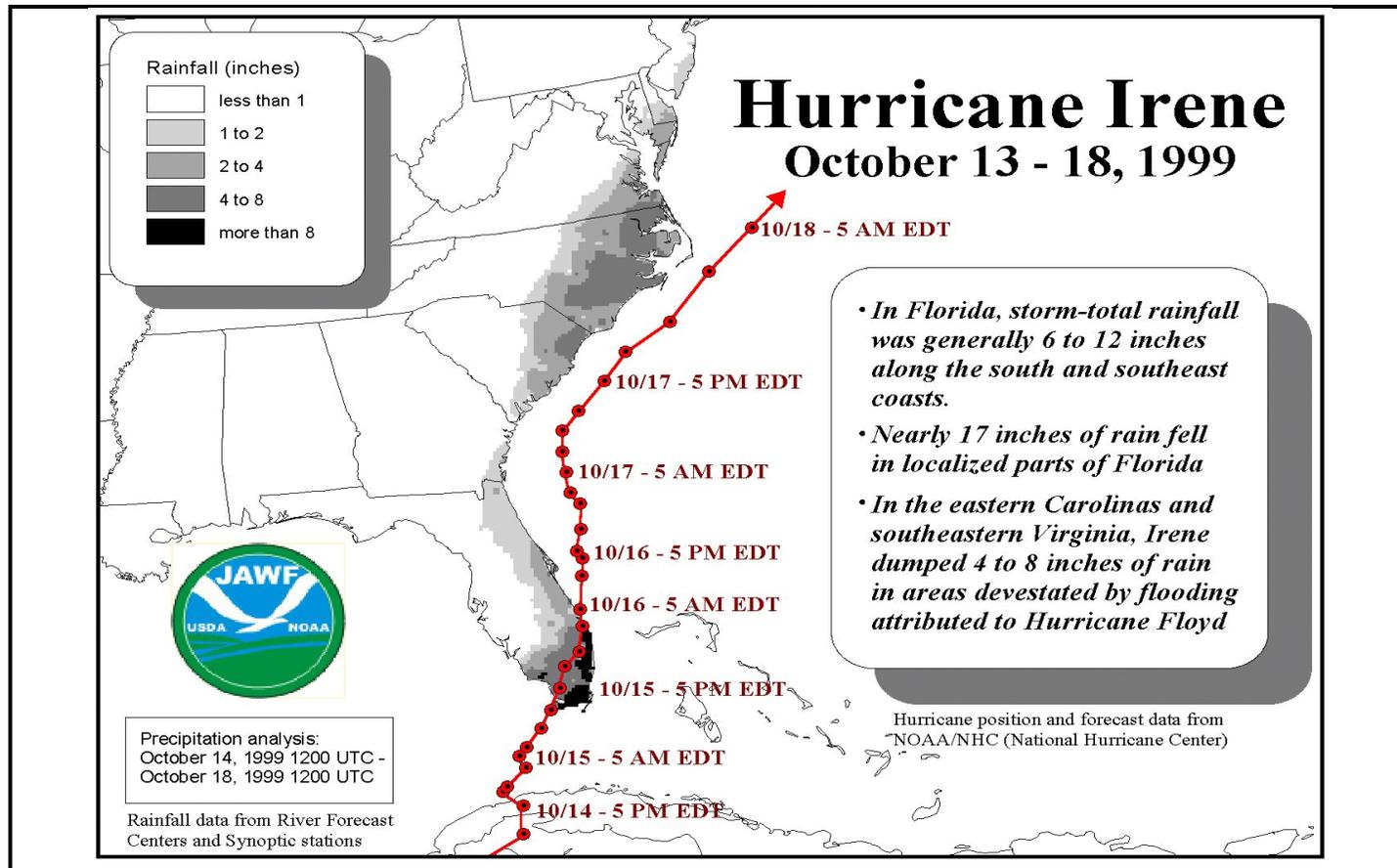


WEEKLY WEATHER AND CROP BULLETIN

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



HIGHLIGHTS October 10 - 16, 1999

Irene, the ninth named storm and sixth hurricane of the 1999 Atlantic hurricane season, crossed the **Florida Keys** east of **Key West** on October 15 around 8 a.m. EDT and made landfall near **Cape Sable, FL** about 6 hours later with sustained winds near 85 mph. Fortunately, Irene struck the sparsely populated **Everglades National Park** area of **southwestern Florida**. However, heavy tropical downpours drenched areas to the east and north of Irene's center (*back cover*). The hurricane produced widespread rainfall totals of 6 to 12 inches, with locally up to 17.45 inches at **Boynton Beach**, and strong winds (gusts up to 85 mph in **Miami Beach** and **Homestead**) in the southern

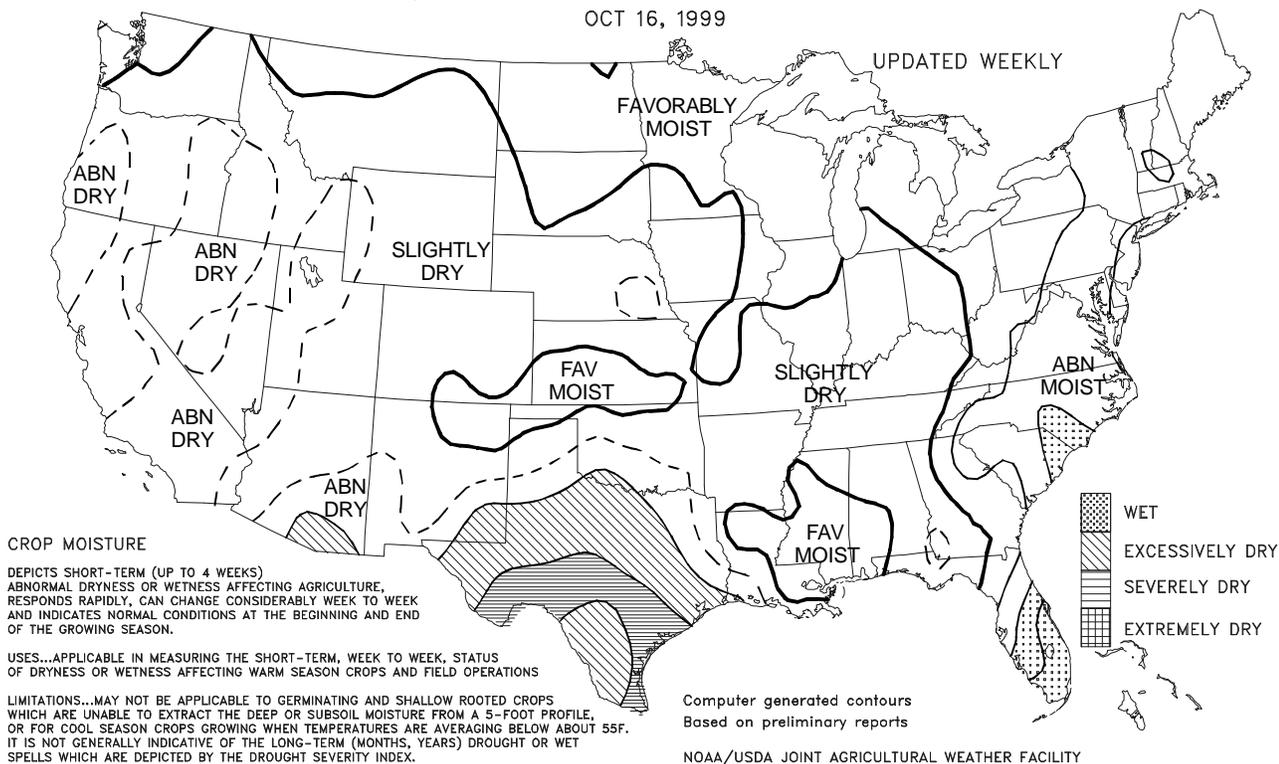
(Continued on page 5)

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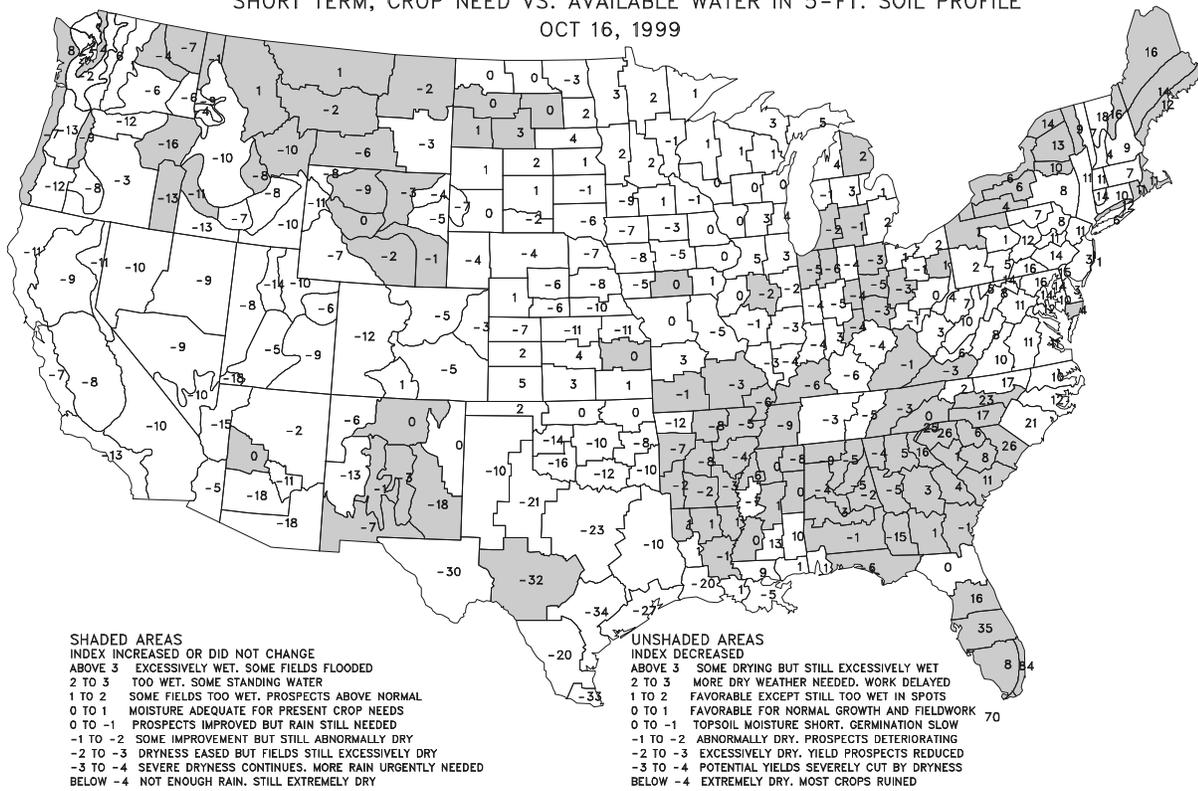
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Crop Moisture
SHORT TERM, CROP NEED VS. AVAILABLE WATER IN 5-FT. SOIL PROFILE
OCT 16, 1999

UPDATED WEEKLY

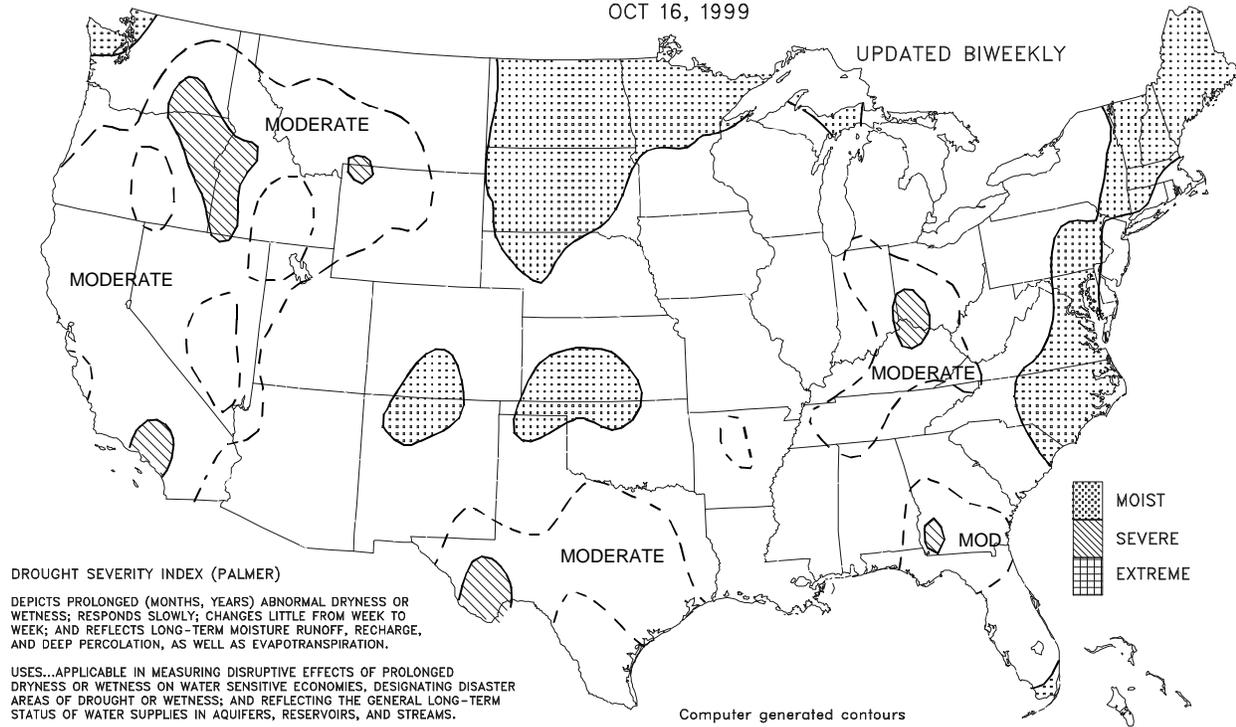


Crop Moisture Index
SHORT TERM, CROP NEED VS. AVAILABLE WATER IN 5-FT. SOIL PROFILE
OCT 16, 1999



DROUGHT SEVERITY
LONG TERM PALMER
OCT 16, 1999

UPDATED BIWEEKLY



DROUGHT SEVERITY INDEX (PALMER)

DEPICTS PROLONGED (MONTHS, YEARS) ABNORMAL DRYNESS OR WETNESS; RESPONDS SLOWLY; CHANGES LITTLE FROM WEEK TO WEEK; AND REFLECTS LONG-TERM MOISTURE RUNOFF, RECHARGE, AND DEEP PERCOLATION, AS WELL AS EVAPOTRANSPIRATION.

USES...APPLICABLE IN MEASURING DISRUPTIVE EFFECTS OF PROLONGED DRYNESS OR WETNESS ON WATER SENSITIVE ECONOMIES, DESIGNATING DISASTER AREAS OF DROUGHT OR WETNESS; AND REFLECTING THE GENERAL LONG-TERM STATUS OF WATER SUPPLIES IN AQUIFERS, RESERVOIRS, AND STREAMS.

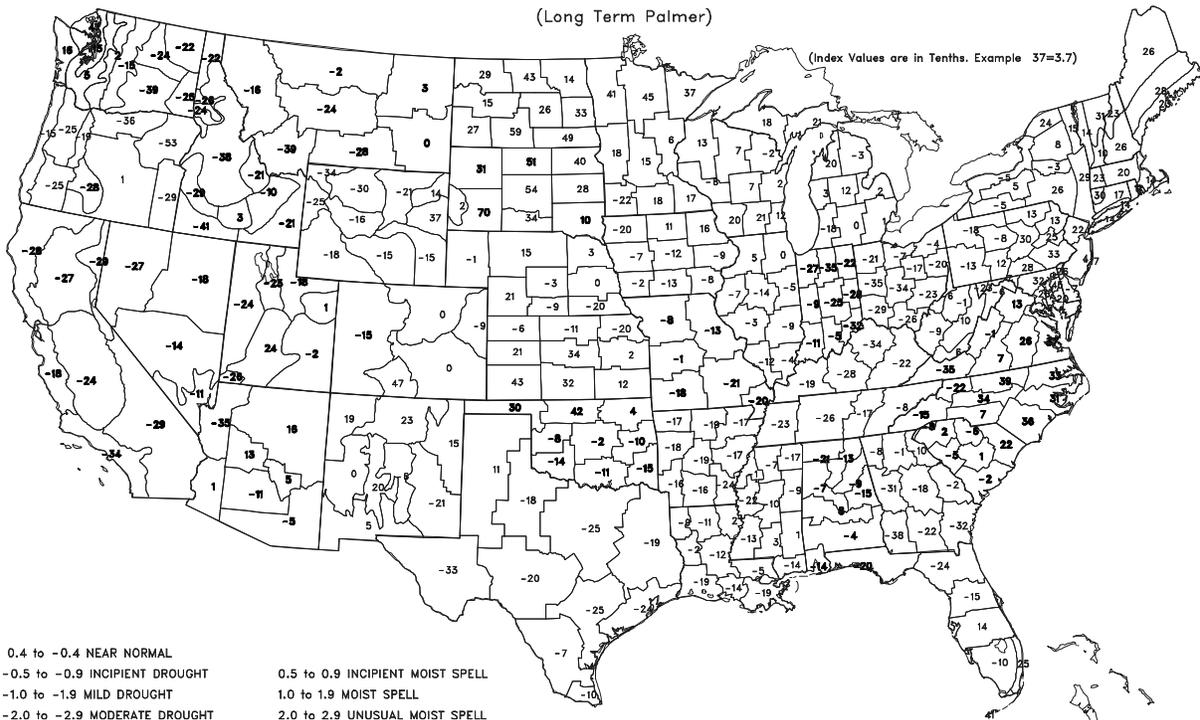
LIMITATIONS...IS NOT GENERALLY INDICATIVE OF SHORT-TERM (FEW WEEKS) STATUS OF DROUGHT OR WETNESS SUCH AS FREQUENTLY AFFECTS CROPS AND FIELD OPERATIONS (THIS IS INDICATED BY THE CROP MOISTURE INDEX).

Computer generated contours
Based on preliminary reports

NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY

Drought Severity Index by Division
OCT 16, 1999
(Long Term Palmer)

(Index Values are in Tenths. Example 37=3.7)



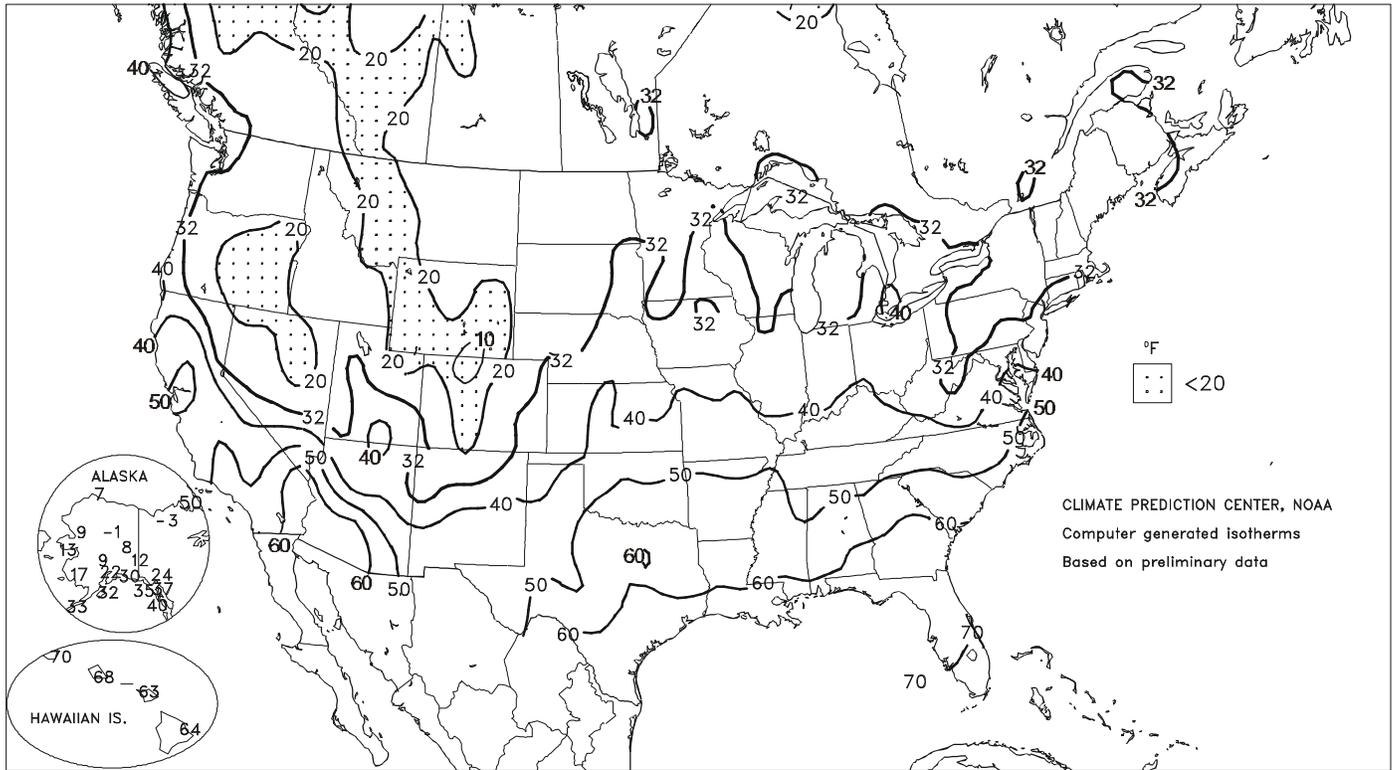
0.4 to -0.4 NEAR NORMAL
-0.5 to -0.9 INCIPIENT DROUGHT
-1.0 to -1.9 MILD DROUGHT
-2.0 to -2.9 MODERATE DROUGHT
-3.0 to -3.9 SEVERE DROUGHT
BELOW -4.0 EXTREME DROUGHT

0.5 to 0.9 INCIPIENT MOIST SPELL
1.0 to 1.9 MOIST SPELL
2.0 to 2.9 UNUSUAL MOIST SPELL
3.0 to 3.9 VERY MOIST SPELL
ABOVE 4.0 EXTREME MOIST SPELL

NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary data
Bolded values are RFC/CADB derived

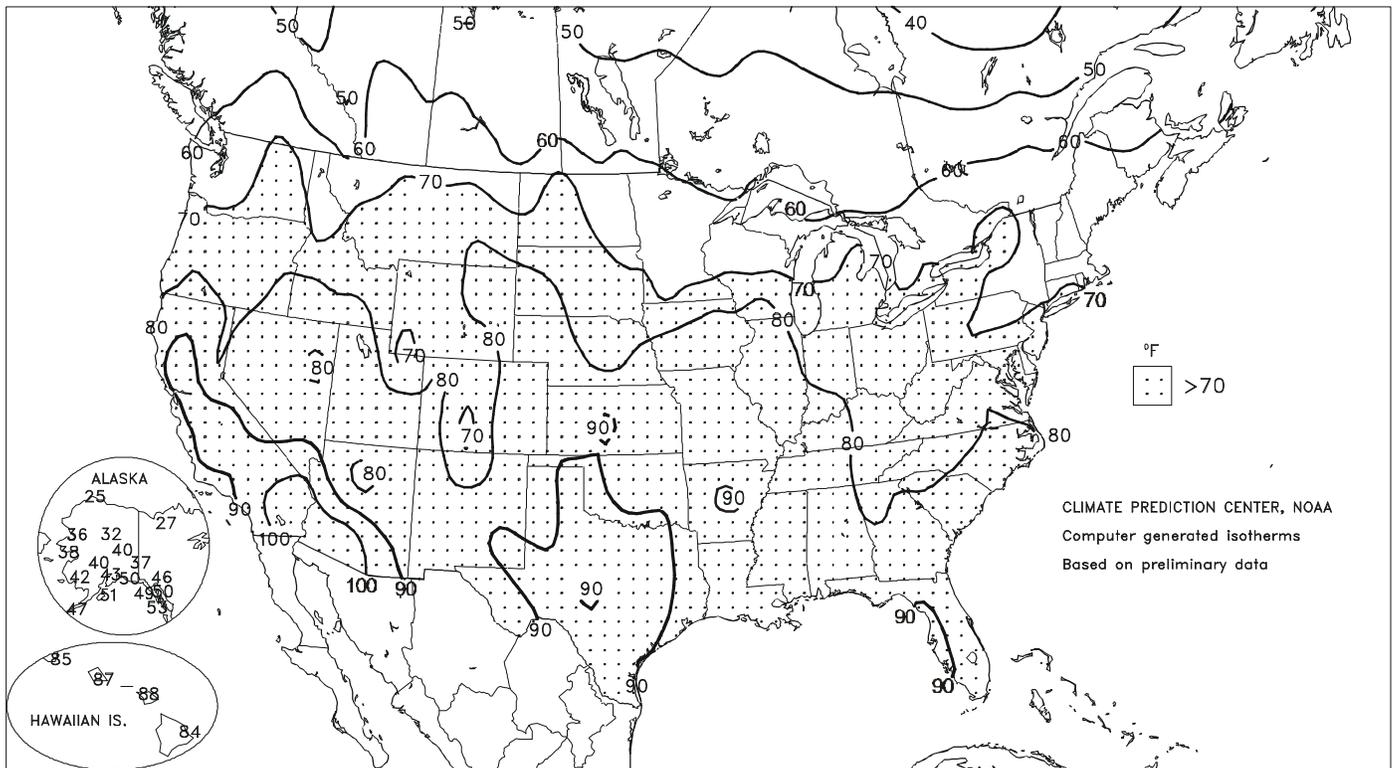
Extreme Minimum Temperature (°F)

OCT 10 - 16, 1999



Extreme Maximum Temperature (°F)

OCT 10 - 16, 1999



Weather Data for Selected Locations in the Delta

Weather Data for the Week Ending October 16, 1999

Data provided by the Mississippi State Delta Research and Extension Center (DREC) and the Southern Regional Climate Center (SRCC).

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						4-INCH SOIL TEMP, °F		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL IN, SINCE Sep 1	PCT. NORMAL SINCE Sep 1	TOTAL IN, SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMP. °F		PRECIP.	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
MS BATESVILLE X	81	59	85	51	70	8	0.00	-0.73	0.00	2.99	58	--	--	--	--	0	0	0	0
BELZONI X	85	59	87	55	72	7	0.00	-0.95	0.00	M	M	--	--	--	--	0	0	0	0
CLARKSDALE X	84	62	86	58	73	9	0.00	-0.69	0.00	7.90	190	--	--	--	--	0	0	0	0
CLEVELAND X	85	59	87	55	72	8	0.00	-0.39	0.00	1.47	46	--	--	--	--	0	0	0	0
GREENVILLE X	85	63	88	59	74	9	0.00	-0.74	0.00	M	M	--	--	--	--	0	0	0	0
GREENWOOD X	84	60	86	57	72	7	0.02	-0.79	0.01	3.23	70	--	--	--	--	0	0	1	0
INDIANOLA 1S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
INVERNESS 5E	84	63	87	59	74	--	0.00	--	0.00	3.59	--	34.61	--	79	70	0	0	0	0
LYON	84	59	87	55	72	--	0.00	--	0.00	4.35	--	--	--	--	--	0	0	0	0
MOORHEAD X	85	64	89	59	75	9	0.00	-0.70	0.00	6.00	128	--	--	--	--	0	0	0	0
ONWARD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ROLLING FORK X	85	63	87	59	74	9	0.00	-0.87	0.00	0.57	13	--	--	--	--	0	0	0	0
SIDON	86	63	88	59	75	--	0.00	--	0.00	2.93	--	--	--	79	73	0	0	0	0
TUNICA X	81	60	85	54	72	9	0.00	-0.65	0.00	5.23	137	--	--	--	--	0	0	0	0
VICKSBURG X	83	63	86	59	73	6	0.00	-1.05	0.00	2.76	56	--	--	--	--	0	0	0	0
YAZOO CITY X	84	61	86	57	73	7	0.00	-0.93	0.00	M	M	--	--	--	--	0	0	0	0
STONEVILLE *	86	63	90	57	75	11	0.03	-0.67	0.03	2.83	58	39.39	99	82	68	1	0	1	0

Compiled by USDA/OCE/WAOB's Stoneville Field Office.

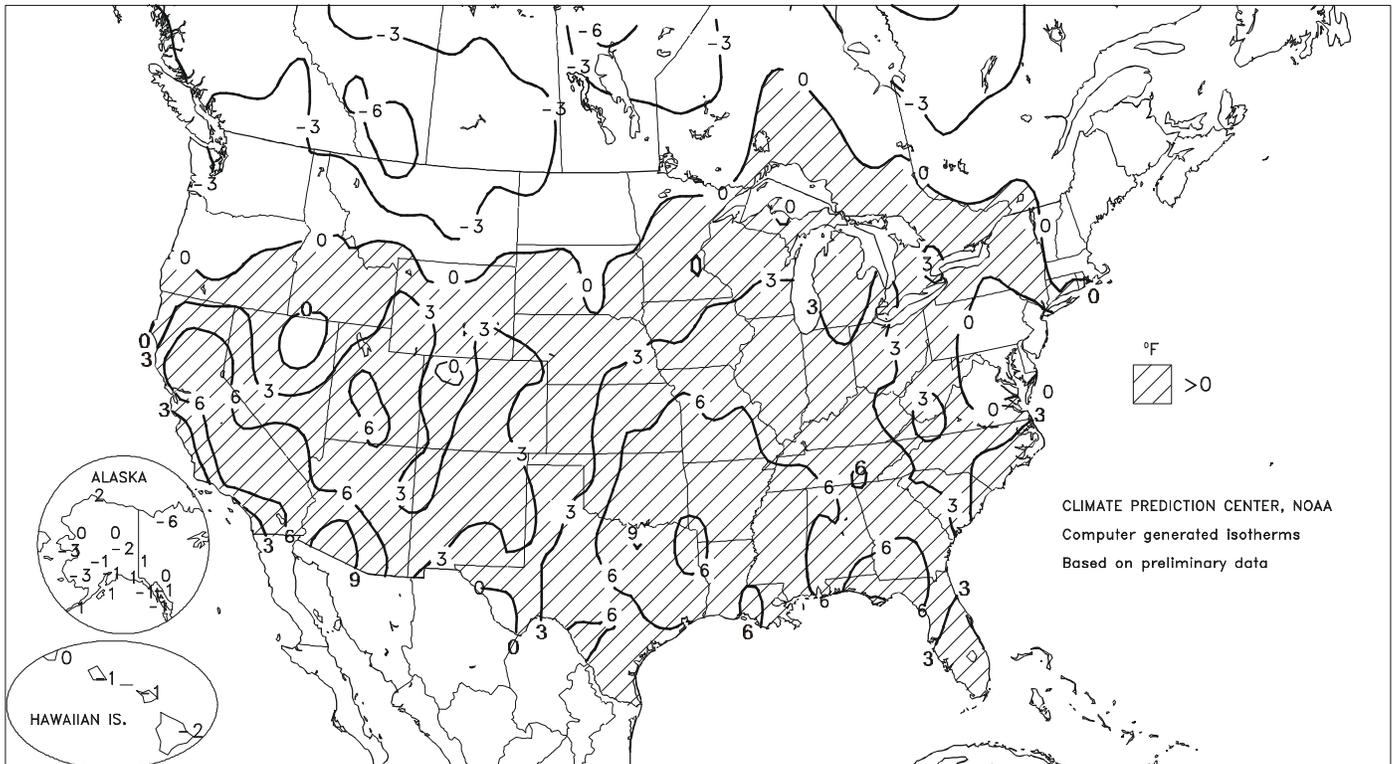
* Based on 1964-93 normals.

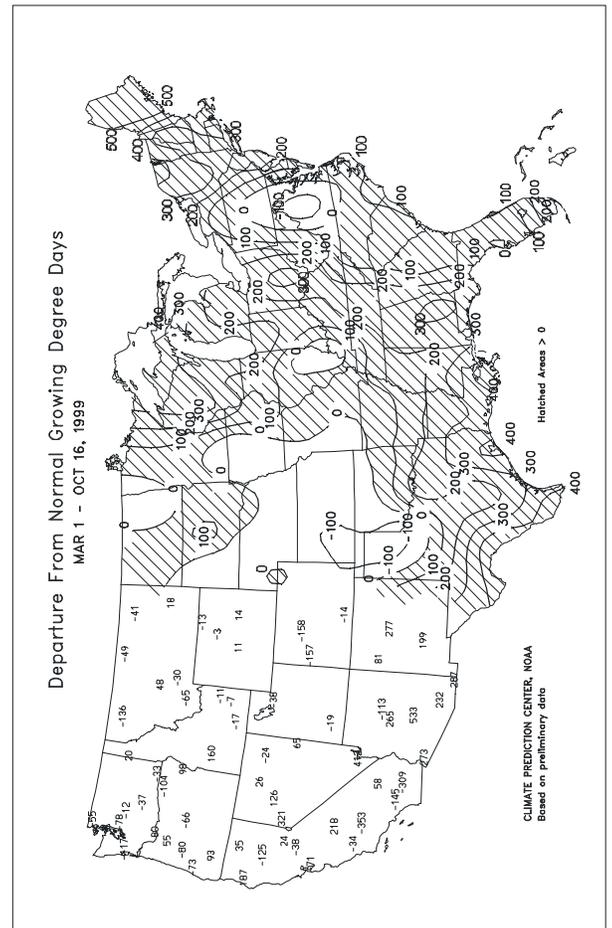
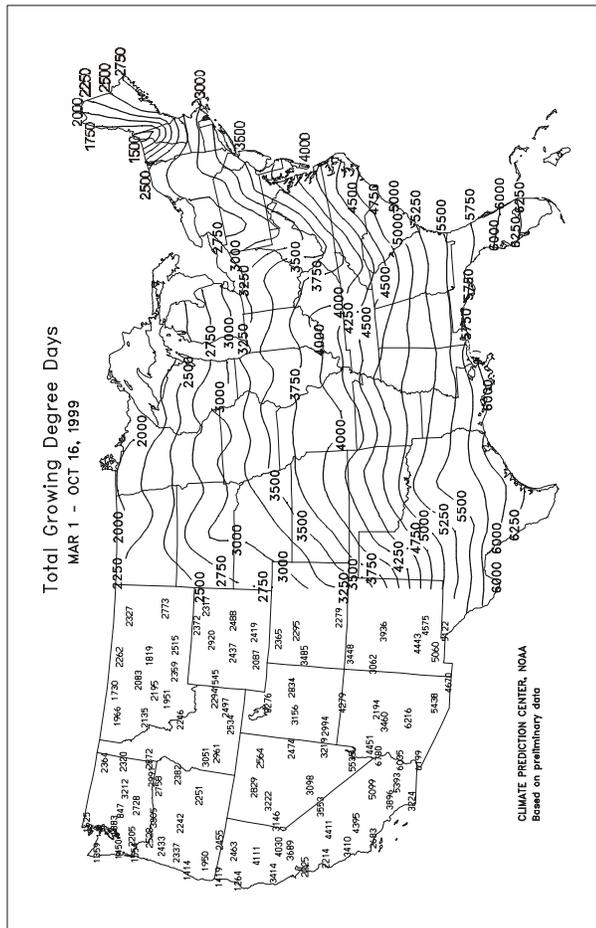
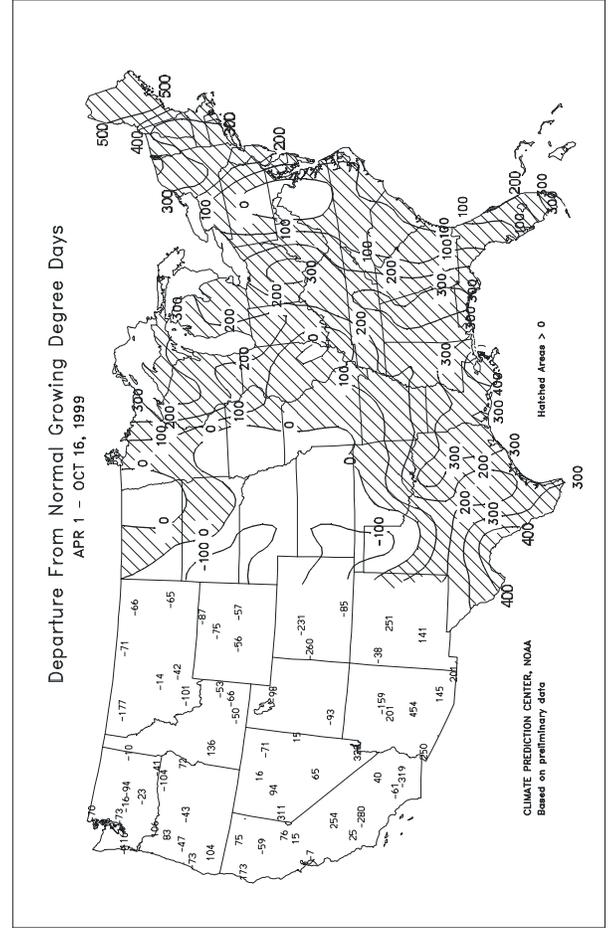
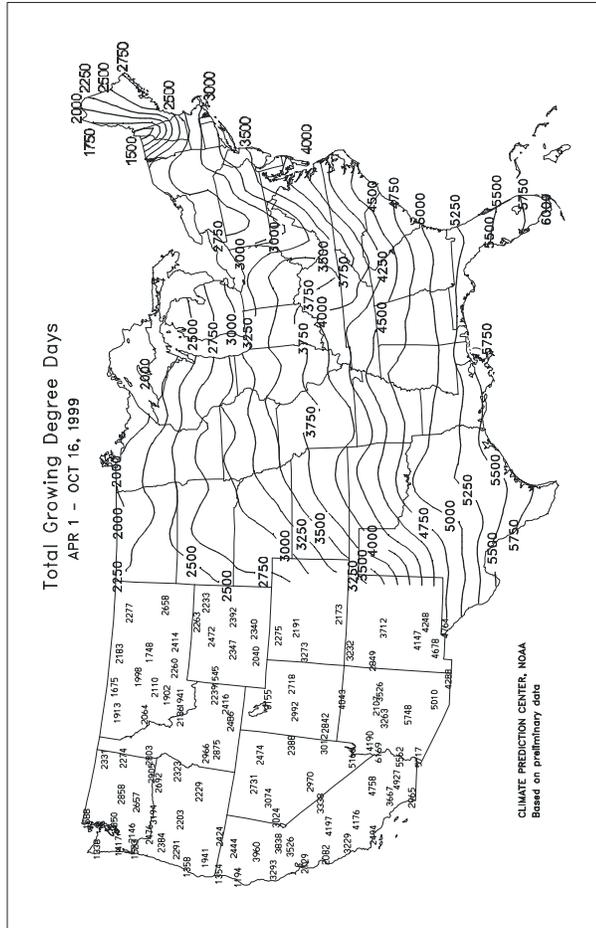
X Based on 1961-90 normals.

Delta Weather and Crop Summary: Over the past 2 weeks, cotton harvesting has been stalled due to light to moderate showers in the area. However, with dry weather prevailing over most of the region, field conditions significantly improved, allowing cotton and rice producers to continue harvesting. Furthermore, above-normal temperatures and adequate soil moisture are keeping some insects very active.

Departure of Average Temperature from Normal (°F)

OCT 10 - 16, 1999





National Weather Data for Selected Cities

Weather Data for the Week Ending October 16, 1999

Data Provided by Climate Prediction Center (301-763-8000 EXT. 7503)

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL IN. SINCE Sep 1	PCT. NORMAL SINCE Sep 1	TOTAL IN. SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMP. °F		PRECIP.		
																90 AND ABOVE	32 AND BELOW	0.1 INCH OR MORE	5.0 INCH OR MORE	
AL	BIRMINGHAM	79	60	82	55	70	6	2.37	1.76	2.36	4.46	83	42.37	97	92	56	0	0	2	1
	HUNTSVILLE	80	57	82	49	68	6	0.43	-0.27	0.43	2.20	39	39.83	89	95	52	0	0	1	0
	MOBILE	84	66	85	62	75	6	1.67	1.02	1.67	9.13	121	46.67	88	99	66	0	0	1	1
	MONTGOMERY	80	63	86	59	72	5	1.86	1.33	1.83	4.66	87	37.68	88	95	64	0	0	3	1
AK	ANCHORAGE	41	29	43	22	35	-1	0.12	-0.36	0.12	4.20	109	14.18	111	81	43	0	6	1	0
	BARROW	19	15	25	7	17	2	0.06	-0.05	0.02	0.45	54	3.43	91	83	66	0	7	5	0
	FAIRBANKS	31	19	40	8	25	-2	0.03	-0.16	0.02	1.95	140	8.76	99	91	64	0	7	2	0
	JUNEAU	46	40	50	37	43	-1	2.94	1.10	0.80	16.37	150	55.63	135	98	84	0	0	7	4
	KODIAK	46	38	51	32	42	1	5.24	3.59	2.24	18.61	172	59.06	115	83	49	0	1	5	3
	NOME	33	20	38	13	26	-3	0.00	-0.31	0.00	4.13	128	13.71	110	88	54	0	7	0	0
AZ	FLAGSTAFF	72	29	75	27	51	2	0.00	-0.36	0.00	4.55	159	16.19	92	81	15	0	7	0	0
	PHOENIX	98	70	101	67	84	8	0.00	-0.14	0.00	1.31	107	6.65	116	36	12	7	0	0	0
	TUCSON	95	63	98	57	79	7	0.00	-0.25	0.00	0.97	42	10.02	102	31	12	6	0	0	0
	YUMA	101	71	105	69	86	9	0.00	-0.06	0.00	0.00	0	4.11	177	38	16	7	0	0	0
AR	FORT SMITH	87	57	89	55	72	8	0.02	-0.80	0.01	4.50	89	35.28	110	93	37	0	0	2	0
	LITTLE ROCK	84	59	88	56	71	7	0.00	-0.79	0.01	2.80	47	24.68	63	94	44	0	0	2	0
CA	BAKERSFIELD	89	58	96	55	74	5	0.00	-0.06	0.00	0.08	29	6.15	146	53	21	3	0	0	0
	EUREKA	61	44	69	38	53	-2	0.01	-0.50	0.01	0.34	18	28.11	120	89	66	0	0	1	0
	FRESNO	89	56	96	54	73	6	0.00	-0.10	0.00	0.00	0	6.29	85	76	22	4	0	0	0
	LOS ANGELES	74	60	82	58	67	0	0.01	-0.03	0.01	0.02	5	7.42	89	94	59	0	0	1	0
	REDDING	88	54	93	47	71	6	0.00	-0.44	0.00	0.10	6	17.26	82	59	13	3	0	0	0
	SACRAMENTO	88	54	92	49	71	6	0.00	-0.20	0.00	0.00	0	9.04	78	79	19	3	0	0	0
	SAN DIEGO	77	62	86	60	70	1	0.00	-0.06	0.00	0.03	9	5.25	79	90	53	0	0	0	0
	SAN FRANCISCO	75	54	82	53	65	3	0.00	-0.24	0.00	0.26	41	14.67	114	86	45	0	0	0	0
CO	ALAMOSA	72	24	75	22	48	3	0.07	-0.10	0.07	1.30	102	8.03	127	74	12	0	7	1	0
	CO SPRINGS	69	42	80	28	55	4	0.10	-0.09	0.10	1.52	84	24.65	165	74	24	0	1	1	0
	DENVER	71	41	83	28	56	3	0.24	0.02	0.24	1.42	80	19.90	148	72	20	0	1	1	0
	GRAND JUNCTION	75	42	81	34	59	3	0.00	-0.22	0.00	1.18	89	8.15	119	39	12	0	0	0	0
	PUEBLO	78	37	91	32	58	3	0.23	0.09	0.23	0.56	46	13.99	139	69	17	2	1	1	0
CT	BRIDGEPORT	65	46	70	36	55	-1	0.76	0.07	0.40	8.34	181	34.12	104	97	53	0	0	4	0
	HARTFORD	66	39	70	29	53	-1	0.88	0.08	0.44	13.15	235	34.94	101	99	46	0	1	3	0
DC	WASHINGTON	69	50	77	43	60	-1	0.77	0.08	0.72	11.60	238	36.07	117	96	54	0	0	3	1
DE	WILMINGTON	68	45	73	36	56	-1	0.74	0.10	0.73	14.71	298	40.96	125	95	47	0	0	2	1
FL	DAYTONA BEACH	83	70	87	66	77	2	2.82	1.85	1.70	11.96	137	37.58	92	94	63	0	0	3	2
	JACKSONVILLE	83	67	87	65	75	5	2.20	1.51	1.61	15.73	177	40.71	90	98	64	0	0	2	2
	KEY WEST	85	76	87	75	80	0	9.56	8.52	4.45	19.46	232	42.62	130	91	73	0	0	6	2
	MIAMI	85	75	87	73	80	1	11.73	10.38	6.64	21.29	195	60.11	123	94	68	0	0	7	4
	ORLANDO	85	71	89	68	78	2	1.81	1.25	1.14	14.58	194	47.98	112	95	62	0	0	4	2
	PENSACOLA	84	68	86	64	76	6	0.44	-0.53	0.33	2.57	34	35.66	68	98	66	0	0	5	0
	TALLAHASSEE	84	69	89	66	77	7	1.26	0.61	0.88	7.39	103	45.13	81	97	63	0	0	2	1
	TAMPA	87	73	90	69	80	4	0.33	-0.14	0.16	8.89	122	31.96	81	95	63	2	0	3	0
	WEST PALM BEACH	84	75	87	72	80	2	11.42	9.88	7.12	17.76	145	53.33	105	91	67	0	0	6	3
GA	ATHENS	74	60	82	57	67	4	1.61	0.87	1.38	6.28	126	37.43	93	96	70	0	0	3	1
	ATLANTA	72	60	77	57	66	3	1.67	1.01	1.15	6.28	127	35.95	88	95	69	0	0	3	1
	AUGUSTA	77	62	81	58	70	5	1.40	0.75	1.34	8.19	181	35.81	96	93	64	0	0	3	1
	COLUMBUS	78	66	84	62	72	5	1.84	1.37	1.10	3.62	83	25.19	61	93	64	0	0	2	2
	MACON	78	65	84	62	71	6	1.34	0.85	0.76	6.24	159	32.70	89	97	70	0	0	3	2
	SAVANNAH	80	67	85	63	73	5	0.36	-0.19	0.29	7.56	130	46.33	108	95	68	0	0	3	0
HI	HILO	82	66	84	64	74	-2	0.23	-1.81	0.14	7.05	54	92.37	95	91	61	0	0	3	0
	HONOLULU	86	72	87	68	79	-1	0.03	-0.47	0.02	0.26	14	7.85	56	88	55	0	0	2	0
	KAHULUI	86	67	88	63	77	-1	0.00	-0.25	0.00	0.03	4	6.12	43	86	52	0	0	0	0
	LIHUE	83	72	85	70	78	0	0.41	-0.56	0.16	2.96	67	22.58	75	88	63	0	0	6	0
ID	BOISE	70	41	82	25	56	3	0.00	-0.15	0.00	0.00	0	7.57	86	63	19	0	1	0	0
	LEWISTON	63	42	77	30	52	-1	0.00	-0.19	0.00	0.00	0	7.67	79	60	26	0	1	0	0
	POCATELLO	68	35	80	28	51	2	0.00	-0.19	0.00	0.02	2	10.81	115	60	18	0	2	0	0
IL	CHICAGO/O'HARE	71	45	79	35	58	4	0.14	-0.40	0.11	4.28	84	33.61	115	91	43	0	0	2	0
	MOLINE	74	44	85	31	59	5	0.34	-0.33	0.34	5.28	93	27.75	84	91	41	0	1	1	0
	PEORIA	73	47	83	35	60	5	0.29	-0.31	0.28	2.94	55	27.95	93	85	39	0	0	2	0
	ROCKFORD	71	41	81	30	56	3	0.38	-0.28	0.29	6.27	117	34.07	112	94	45	0	1	3	0
	SPRINGFIELD	74	47	83	34	61	4	0.16	-0.43	0.15	4.26	90	26.66	93	88	40	0	0	2	0
IN	EVANSVILLE	75	49	82	41	62	4	0.03	-0.60	0.02	3.26	74	32.79	96	96	49	0	0	2	0
	FORT WAYNE	69	45	76	35	57	3	0.64	0.09	0.43	3.05	78	24.47	88	94	49	0	0	3	0
	INDIANAPOLIS	72	48	78	38	60	4	0.40	-0.18	0.37	2.52	60	28.06	88	89	46	0	0	3	0
	SOUTH BEND	70	44	77	33	57	3	0.20	-0.49	0.12	2.33	45	25.71	83	89	40	0	0	2	0
IA	BURLINGTON	78	48	88	38	63	8	0.48	-0.20	0.44	6.15	107	30.59	100	76	34	0	0	3	0
	CEDAR RAPIDS	71	42	85	33	56	3	0.84	0.31	0.58	2.55	49	21.03	72	88	37	0	0	3	1
	DES MOINES	72	47	85	39	60	5	0.04	-0.57	0.03	2.74	55	25.85	90	85	32	0	0	2	0
	DUBUQUE	69	43	82	33	56	4	0.98	0.36	0.48	3.06	49	30.74	95	86	40	0	0	3	0
	SIOUX CITY	69	40	76	32	54	1	0.00	-0.46	0.00	0.79	20	27.63	119	87	32	0	1	0	0
	WATERLOO	71	41	86	31	56	4	0.02	-0.58	0.01	1.46	29	36.44	124	82	31	0	1	2	0
KS	CONCORDIA	77	48	90	40	62	5	0.00	-0.47	0.00	1.16	28	24.32	94	75	29	1	0	0	0
	DODGE CITY	77	48	86	41	62	3	0.00	-0.30	0.00	2.76	105	19.97	103	85	31	0	0	0	0
	GOODLAND	72	41	91	32	57	3	0.00	-0.21	0.00	0.85	41	19.79	119	80	28	1	1	0	0
	TOPEKA	78	49	88	40	63	6	0.11	-0.61	0.10	4.63	84	30.96	101	86	35	0	0	2	0

Weather Data for the Week Ending October 16, 1999

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL IN. SINCE Sep 1	PCT. NORMAL SINCE Sep 1	TOTAL IN. SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMP. °F		PRECIP.	
																90 AND ABOVE	32 AND BELOW	0.1 INCH OR MORE	5.0 INCH OR MORE
KY WICHITA	80	53	87	46	67	7	0.00	-0.52	0.00	10.69	224	40.63	158	79	34	0	0	0	0
KY JACKSON	70	51	76	43	60	2	0.87	0.18	0.45	4.02	76	34.26	87	92	61	0	0	2	0
KY LEXINGTON	71	50	75	40	60	2	0.06	-0.50	0.04	3.04	68	27.53	77	92	63	0	0	2	0
KY LOUISVILLE	74	51	81	45	62	4	0.06	-0.52	0.06	2.99	66	29.05	81	91	54	0	0	1	0
KY PADUCAH	79	53	85	44	66	6	0.00	-0.66	0.00	4.52	87	35.51	92	93	43	0	0	0	0
LA BATON ROUGE	86	64	87	60	75	5	0.05	-0.73	0.04	8.48	127	37.94	77	99	52	0	0	2	0
LA LAKE CHARLES	88	66	89	62	77	7	0.02	-0.87	0.01	2.65	34	32.43	74	98	46	0	0	2	0
LA NEW ORLEANS	84	69	88	65	76	6	0.83	0.16	0.83	7.57	106	41.56	83	98	59	0	0	1	1
LA SHREVEPORT	86	61	87	57	73	6	0.00	-0.82	0.00	6.90	140	48.93	137	96	42	0	0	0	0
ME CARIBOU	53	32	59	29	43	-1	1.61	0.92	1.00	10.55	210	30.88	109	93	54	0	3	6	1
ME PORTLAND	60	35	64	28	47	-2	0.50	-0.35	0.35	9.48	192	29.69	91	92	49	0	2	4	0
MD BALTIMORE	68	45	76	36	56	-1	0.81	0.15	0.77	13.13	266	38.75	119	96	53	0	0	2	1
MA BOSTON	65	46	70	38	55	0	1.19	0.47	0.70	11.82	252	32.22	102	89	48	0	0	3	1
MA WORCESTER	62	41	67	30	51	0	0.66	-0.30	0.35	9.67	156	32.06	86	94	43	0	1	3	0
MI ALPENA	63	39	72	29	51	3	0.15	-0.33	0.11	2.85	67	17.30	73	91	43	0	1	2	0
MI GRAND RAPIDS	67	41	71	32	54	3	0.44	-0.18	0.31	4.00	70	28.48	100	91	47	0	1	3	0
MI HOUGHTON LAKE	61	34	69	25	48	0	0.69	0.20	0.55	4.26	92	26.08	113	96	48	0	3	4	1
MI LANSING	67	37	74	27	52	1	0.44	-0.02	0.28	3.19	68	28.11	114	97	51	0	2	3	0
MI MARQUETTE	53	34	61	27	44	-1	0.34	-0.49	0.16	4.21	69	31.46	112	87	50	0	3	3	0
MI MUSKEGON	66	39	73	29	53	1	0.30	-0.33	0.19	3.09	57	26.63	106	96	45	0	1	2	0
MN DULUTH	53	37	63	33	45	0	0.06	-0.52	0.03	6.47	123	30.50	118	88	51	0	0	2	0
MN INT'L FALLS	53	32	61	26	43	-1	0.15	-0.32	0.13	6.32	147	29.46	137	94	52	0	4	2	0
MN MINNEAPOLIS	64	44	68	38	54	4	0.00	-0.51	0.00	2.95	75	25.91	105	75	34	0	0	0	0
MN ROCHESTER	62	39	69	33	51	1	0.00	-0.54	0.00	0.91	19	31.00	119	88	43	0	0	0	0
MS ST. CLOUD	62	38	68	30	50	3	0.00	-0.52	0.00	3.07	69	24.95	102	82	36	0	1	0	0
MS JACKSON	84	60	87	58	72	7	0.01	-0.69	0.01	4.19	82	35.61	83	99	48	0	0	1	0
MS MERIDIAN	84	59	87	53	71	6	0.38	-0.28	0.36	6.60	131	34.83	78	99	51	0	0	3	0
MS TUPELO	84	58	86	47	71	7	0.02	-0.72	0.01	1.74	33	44.83	104	95	41	0	0	2	0
MO COLUMBIA	76	48	87	38	62	4	0.03	-0.71	0.02	2.76	49	23.39	73	83	41	0	0	2	0
MO KANSAS CITY	76	51	86	42	64	6	0.22	-0.56	0.18	5.87	87	36.63	112	87	40	0	0	2	0
MO SAINT LOUIS	76	52	85	41	64	5	0.05	-0.54	0.05	3.13	70	32.05	107	89	49	0	0	1	0
MO SPRINGFIELD	79	52	85	44	66	7	0.09	-0.72	0.09	2.92	45	32.84	95	92	46	0	0	1	0
MT BILLINGS	60	36	79	25	48	-3	0.00	-0.27	0.00	2.80	140	13.41	103	77	30	0	1	0	0
MT BUTTE	61	26	74	10	43	1	0.02	-0.14	0.02	0.49	29	11.95	110	91	25	0	5	1	0
MT GLASGOW	57	32	72	27	44	-4	0.24	0.09	0.24	1.35	99	14.74	147	88	35	0	6	1	0
MT GREAT FALLS	56	30	76	19	43	-6	0.00	-0.18	0.00	1.97	117	11.99	90	85	34	0	6	0	0
MT KALISPELL	54	30	63	15	42	-1	0.26	0.07	0.12	0.94	55	12.48	96	94	44	0	4	4	0
MT MILES CITY	62	37	80	25	50	0	0.09	-0.13	0.08	1.14	63	12.74	102	85	31	0	2	2	0
MT MISSOULA	56	34	72	22	45	-1	0.06	-0.11	0.04	0.72	48	10.11	91	91	40	0	3	3	0
NE GRAND ISLAND	69	43	77	39	56	2	0.00	-0.31	0.00	0.61	17	24.09	106	87	39	0	0	0	0
NE LINCOLN	73	45	88	37	59	4	0.00	-0.50	0.00	1.25	26	26.40	105	82	31	0	0	0	0
NE NORFOLK	67	43	76	38	55	2	0.00	-0.37	0.00	0.86	25	23.98	106	79	35	0	0	0	0
NE NORTH PLATTE	70	37	84	28	54	3	0.00	-0.23	0.00	1.34	62	19.66	111	89	29	0	1	0	0
NE OMAHA	72	46	85	40	59	4	0.00	-0.54	0.00	1.67	33	30.72	116	83	32	0	0	0	0
NE SCOTTSBLUFF	71	36	85	23	54	3	0.03	-0.16	0.03	2.45	157	16.56	121	83	23	0	2	1	0
NE VALENTINE	65	39	78	24	52	1	0.00	-0.21	0.00	3.39	165	19.64	117	84	38	0	1	0	0
NV ELY	72	30	80	21	51	4	0.00	-0.21	0.00	0.55	37	6.48	78	44	11	0	4	0	0
NV LAS VEGAS	91	61	94	60	76	7	0.00	-0.04	0.00	0.35	95	4.23	134	32	16	6	0	0	0
NV RENO	77	39	85	31	58	6	0.00	-0.08	0.00	0.25	48	4.96	91	62	14	0	1	0	0
NV WINNEMUCCA	74	28	84	23	51	1	0.00	-0.14	0.00	0.15	23	5.55	91	51	17	0	6	0	0
NH CONCORD	63	32	71	26	48	-1	0.38	-0.33	0.20	10.28	234	35.31	126	97	41	0	4	3	0
NJ NEWARK	67	48	72	38	57	-1	0.93	0.27	0.59	11.15	214	37.53	107	90	47	0	0	4	1
NM ALBUQUERQUE	79	48	81	37	64	5	0.24	0.02	0.24	0.78	52	8.25	110	45	15	0	0	1	0
NY ALBANY	63	40	66	29	51	0	0.82	0.19	0.45	12.61	286	31.87	111	94	51	0	2	4	0
NY BINGHAMTON	59	40	64	28	49	0	0.58	-0.05	0.31	7.83	163	28.65	98	94	55	0	2	4	0
NY BUFFALO	65	43	75	37	54	2	1.26	0.57	1.09	6.21	122	28.28	96	91	46	0	0	3	1
NY ROCHESTER	66	43	78	37	55	3	1.05	0.50	0.71	4.90	116	28.14	112	93	47	0	0	3	1
NY SYRACUSE	64	42	72	34	53	2	1.27	0.55	0.70	7.66	140	26.14	86	94	51	0	0	4	1
NC ASHEVILLE	69	53	76	44	61	4	1.21	0.41	1.11	5.01	87	35.48	92	97	63	0	0	4	1
NC CHARLOTTE	71	57	78	48	64	1	4.64	3.87	3.17	9.15	174	32.33	93	95	65	0	0	4	2
NC GREENSBORO	68	55	77	42	62	2	1.58	0.78	0.78	10.36	192	40.15	116	98	62	0	0	4	1
NC HATTERAS	75	66	79	61	71	4	1.13	0.00	0.47	7.29	93	41.61	94	91	62	0	0	3	0
NC RALEIGH	73	54	78	42	63	2	0.49	-0.14	0.31	22.30	478	48.89	144	98	61	0	0	3	0
NC WILMINGTON	79	62	87	53	71	4	0.31	-0.29	0.13	24.17	369	67.62	146	92	58	0	0	4	0
ND BISMARCK	58	36	71	30	47	0	0.35	0.14	0.31	1.66	82	26.78	190	92	47	0	1	2	0
ND DICKINSON	57	36	70	24	46	-1	0.18	-0.05	0.13	2.80	123	16.03	108	90	42	0	2	2	0
ND FARGO	59	37	65	30	48	0	0.43	0.03	0.41	6.97	236	17.81	103	87	40	0	1	2	0
ND GRAND FORKS	57	32	64	24	44	-2	0.04	-0.27	0.04	2.61	86	15.98	97	87	43	0	4	1	0
ND JAMESTOWN	56	35	67	31	46	-1	0.20	-0.03	0.13	2.89	123	22.13	142	92	42	0	2	4	0
ND WILLISTON	57	30	67	19	43	-3	0.07	-0.12	0.05	1.67	92	14.71	119	89	42	0	5	2	0
OH AKRON-CANTON	66	45	73	39	56	2	0.77	0.25	0.72	5.11	112	29.70	100	94	57	0	0	3	1
OH CINCINNATI	71	48	77	43	60	4	0.22	-0.41	0.12	3.31	77	27.64	83	88	46	0	0	2	0
OH CLEVELAND	67	46	76	38	56	3	1.57	1.01	1.53	4.12	86	25.44	87	92	51	0	0	2	1
OH COLUMBUS	70	49	77	42	59	5	0.44	-0.03	0.39	2.73	68	23.18	75	89	52	0	0	2	0
OH DAYTON	70	46	76	37	58	3	0.18	-0.37	0.10	2.09	56	24.72	84	89	48	0	0	2	0
OH MANSFIELD	67	44	75	38	56	2	0.67	0.17	0.66	3.67	80	26.84	84	96	52	0	0	2	1

Based on 196

Weather Data for the Week Ending October 16, 1999

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION								RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL IN. SINCE Sep 1	PCT. NORMAL SINCE Sep 1	TOTAL IN. SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMP. °F		PRECIP.		
																90 AND ABOVE	32 AND BELOW	0.1 INCH OR MORE	5.0 INCH OR MORE	
OK TOLEDO	69	44	78	36	56	4	0.55	0.08	0.52	3.06	78	23.85	91	93	41	0	0	2	1	
OK YOUNGSTOWN	65	42	74	34	54	1	0.95	0.37	0.87	6.12	126	35.64	118	93	47	0	0	2	1	
OK OKLAHOMA CITY	83	56	88	54	70	7	0.00	-0.76	0.00	5.15	91	34.74	122	85	39	0	0	0	0	
OK TULSA	82	57	87	48	70	6	0.00	-0.84	0.00	9.69	144	40.81	121	87	42	0	0	0	0	
OR ASTORIA	60	42	64	36	51	-2	0.11	-1.08	0.07	1.30	24	57.30	135	99	60	0	0	5	0	
OR BURNS	67	28	78	13	48	1	0.00	-0.15	0.00	0.00	0	6.81	95	75	17	0	5	0	0	
OR EUGENE	69	37	77	31	53	-2	0.00	-0.65	0.00	0.39	13	29.00	96	94	36	0	1	0	0	
OR MEDFORD	76	40	84	32	58	2	0.00	-0.30	0.00	0.22	15	13.20	116	88	23	0	2	0	0	
OR PENDLETON	64	39	78	26	52	-2	0.00	-0.18	0.00	0.19	20	6.91	82	76	31	0	2	0	0	
OR PORTLAND	65	43	71	37	54	-1	0.00	-0.54	0.00	1.10	38	28.44	122	95	40	0	0	0	0	
OR SALEM	68	39	74	31	53	0	0.00	-0.60	0.00	0.49	18	32.83	135	96	39	0	2	0	0	
PA ALLENTOWN	66	40	70	30	53	-1	0.98	0.64	0.88	13.36	246	30.97	89	96	47	0	1	2	1	
PA ERIE	66	46	76	37	56	2	1.16	0.31	1.15	7.21	113	25.78	80	92	50	0	0	2	1	
PA MIDDLETOWN	68	45	72	36	56	1	1.25	0.60	1.04	11.10	222	32.82	102	94	48	0	0	2	1	
PA PHILADELPHIA	69	49	74	42	59	2	0.73	0.15	0.72	15.00	314	43.84	131	92	52	0	0	2	1	
PA PITTSBURGH	67	43	74	35	55	2	0.70	0.18	0.56	3.14	75	31.07	104	95	49	0	0	3	1	
PA WILKES-BARRE	62	40	67	30	51	-1	0.75	0.63	0.43	11.09	232	30.84	105	97	49	0	2	2	0	
PA WILLIAMSPORT	63	40	68	32	52	-1	0.96	0.22	0.47	14.44	285	38.31	118	97	51	0	1	3	0	
RI PROVIDENCE	65	42	70	32	54	-1	1.21	0.40	0.66	9.26	175	34.88	100	92	48	0	1	3	1	
SC BEAUFORT	77	65	84	61	71	2	1.44	0.85	1.09	6.40	99	30.91	69	95	71	0	0	2	1	
SC CHARLESTON	79	64	84	59	72	4	0.87	0.20	0.31	9.00	141	35.74	80	97	68	0	0	4	0	
SC COLUMBIA	75	63	83	55	69	5	1.06	0.37	0.84	5.19	98	28.94	69	94	66	0	0	4	1	
SC GREENVILLE	71	59	79	55	65	4	3.33	2.42	3.03	8.48	140	33.09	80	91	63	0	0	4	1	
SD ABERDEEN	60	37	70	32	48	-1	0.00	-0.25	0.01	4.39	174	22.75	133	91	41	0	1	1	0	
SD HURON	63	39	73	30	51	1	0.01	-0.35	0.00	2.94	115	17.42	96	90	41	0	1	0	0	
SD RAPID CITY	66	37	86	21	52	2	0.00	-0.26	0.00	1.10	59	18.63	123	76	29	0	1	0	0	
SD SIOUX FALLS	65	39	74	31	52	2	0.00	-0.42	0.00	1.20	29	22.88	107	85	32	0	1	0	0	
TN BRISTOL	71	49	77	42	60	2	0.91	0.33	0.60	3.05	66	29.19	88	99	55	0	0	3	1	
TN CHATTANOOGA	78	57	81	51	68	6	0.83	0.14	0.83	4.22	73	41.81	99	97	56	0	0	1	1	
TN KNOXVILLE	74	55	80	46	64	5	1.35	0.72	1.19	3.43	77	46.07	123	98	60	0	0	4	1	
TN MEMPHIS	82	61	85	56	72	8	0.00	-0.64	0.00	2.48	50	38.62	97	88	46	0	0	0	0	
TN NASHVILLE	78	54	82	44	66	5	0.03	-0.52	0.03	3.93	82	36.05	97	92	48	0	0	1	0	
TX ABILENE	86	58	90	51	72	5	0.12	-0.47	0.12	1.91	41	13.94	67	76	27	2	0	1	0	
TX AMARILLO	78	46	88	41	62	2	0.00	-0.32	0.00	2.75	99	26.10	146	85	24	0	0	0	0	
TX AUSTIN	91	60	93	58	76	3	0.00	-0.80	0.00	0.66	13	24.89	96	97	38	6	0	0	0	
TX BEAUMONT	87	67	88	62	77	6	0.01	-0.95	0.01	6.55	76	30.54	67	97	52	0	0	1	0	
TX BROWNSVILLE	91	69	92	66	80	4	0.02	-0.65	0.01	4.22	54	19.65	86	97	50	7	0	2	0	
TX CORPUS CHRISTI	87	69	89	65	78	4	0.36	-0.36	0.28	4.25	58	27.56	105	99	57	0	0	2	0	
TX DEL RIO	90	64	92	57	77	5	0.00	-0.54	0.00	0.02	0	14.98	95	82	35	5	0	0	0	
TX EL PASO	83	51	86	48	67	2	0.02	-0.16	0.02	1.96	89	7.38	97	52	21	0	0	1	0	
TX FORT WORTH	90	65	93	62	77	9	0.00	-0.82	0.00	2.69	51	19.37	69	83	31	3	0	0	0	
TX GALVESTON	84	73	86	71	79	5	0.01	-0.63	0.01	5.01	66	23.02	67	94	66	0	0	1	0	
TX HOUSTON	90	64	90	60	77	6	0.00	-0.98	0.00	1.38	19	24.94	68	98	47	5	0	0	0	
TX LUBBOCK	81	49	89	45	65	3	0.00	-0.45	0.00	3.37	91	18.92	114	87	27	0	0	0	0	
TX MIDLAND	84	54	91	48	69	4	0.00	-0.42	0.00	1.04	28	7.47	57	81	24	1	0	0	0	
TX SAN ANGELO	88	56	90	48	72	5	0.01	-0.57	0.01	0.93	19	12.91	73	81	30	1	0	1	0	
TX SAN ANTONIO	90	64	91	60	77	6	0.00	-0.73	0.00	0.06	1	15.18	60	83	35	4	0	0	0	
TX VICTORIA	91	66	93	65	79	6	0.15	-0.66	0.12	3.93	51	23.96	76	99	40	6	0	3	0	
TX WACO	91	62	93	58	77	7	0.00	-0.78	0.00	0.51	10	13.70	52	79	34	5	0	0	0	
TX WICHITA FALLS	86	60	91	56	73	7	0.00	-0.65	0.00	3.24	60	26.42	106	89	35	3	0	0	0	
UT SALT LAKE CITY	73	45	86	29	59	4	0.00	-0.33	0.00	0.45	22	11.99	93	56	16	0	1	0	0	
VT BURLINGTON	62	38	67	29	50	1	0.81	0.18	0.54	11.68	244	28.98	105	89	44	0	3	4	1	
VA LYNCHBURG	68	49	75	36	59	1	0.50	-0.35	0.40	12.82	249	34.64	106	97	62	0	0	2	0	
VA NORFOLK	73	59	79	55	66	4	0.07	-0.65	0.07	13.33	238	44.66	120	95	61	0	0	1	0	
VA RICHMOND	71	49	77	39	60	0	0.18	-0.62	0.15	16.83	327	43.80	125	96	58	0	0	2	0	
VA ROANOKE	69	51	79	39	60	3	0.26	-0.62	0.26	8.05	147	30.15	91	97	63	0	0	1	0	
VA WASH/DULLES	69	43	75	33	56	0	0.71	-0.01	0.65	10.98	220	38.01	118	99	52	0	0	3	1	
WA OLYMPIA	59	37	64	30	48	-3	0.20	-0.69	0.12	1.76	43	41.78	131	98	53	0	2	5	0	
WA QUILLAYUTE	54	37	60	29	46	-5	1.68	-0.59	1.32	6.21	65	79.71	115	99	68	0	2	4	1	
WA SEATTLE-TACOMA	57	45	60	36	51	-3	0.12	-0.55	0.09	1.18	36	27.68	117	97	59	0	0	3	0	
WA SPOKANE	57	34	69	18	46	-3	0.02	-0.18	0.01	0.10	9	10.63	94	80	32	0	4	2	0	
WV YAKIMA	63	33	74	24	48	-3	0.00	-0.09	0.00	0.00	0	5.18	98	80	27	0	3	0	0	
WV BECKLEY	65	48	68	38	56	3	0.93	0.27	0.44	6.18	127	30.60	92	95	63	0	0	3	0	
WV CHARLESTON	72	46	76	37	59	2	0.68	0.05	0.45	4.79	102	30.55	90	97	60	0	0	2	0	
WV ELKINS	69	37	75	28	53	2	1.23	0.54	0.88	6.72	125	30.02	82	98	48	0	3	3	1	
WV HUNTINGTON	71	48	74	38	59	2	1.47	0.84	1.15	2.67	61	26.45	79	96	59	0	0	2	1	
WI EAU CLAIRE	63	39	70	34	51	2	0.15	-0.42	0.08	1.88	35	27.25	97	82	36	0	0	3	0	
WI GREEN BAY	63	37	70	28	50	1	0.32	-0.19	0.16	1.87	40	23.04	95	93	47	0	3	3	0	
WI LA CROSSE	66	41	74	36	54	2	0.34	-0.18	0.25	3.00	59	18.94	71	86	36	0	0	3	0	
WI MADISON	69	40	78	29	54	4	0.36	-0.13	0.28	2.46	54	30.15	116	89	41	0	2	2	0	
WI MILWAUKEE	70	46	76	37	58	6	0.21	-0.33	0.18	5.07	108	34.42	127	89	46	0	0	3	0	
WY CASPER	66	33	81	22	50	2	0.14	-0.08	0.13	1.46	101	10.12	95	79	21	0	4	2	0	
WY CHEYENNE	64	35	80	15	50	2	0.20	0.03	0.10	2.34	138	16.24	124	83	29	0	2	2	0	
WY LANDER	63	35	76	17	49	1	0.59	0.32	0.37	2.62	153	14.39	129	78	22	0	2	2	0	
WY SHERIDAN	62	32	80	19	47	-1	0.15	-0.13	0.10	3.39	168	12.77	103	89	39	0	1	2	0	

NOTE: These data are preliminary and subject to change. In the past, precipitation totals from a number of stations have been incomplete.

National Agricultural Summary

October 11 - 17, 1999

HIGHLIGHTS

Harvest progress was limited by heavy rainfall in parts of the Southeast, but rapidly advanced with few rain delays in most other regions of the Nation. In the Corn Belt and Great Plains, farmers rapidly prepared and planted winter wheat in recently harvested fields. Warm weather promoted wheat emergence and aided early growth in the eastern Corn Belt and central

Great Plains. Soil moisture levels were mostly adequate in the Corn Belt early in the week, but diminished as the week progressed. In the Great Plains, some wheat fields emerged with uneven stands due to dry soils. In California, above-normal temperatures ripened crops, and harvest progress was aided by dry weather.

Corn: Fifty-nine percent of the Nation's corn acreage was harvested, 4 percentage points ahead of last year by this date and more than 1 week ahead of the 5-year average. Harvest continued with virtually no rain delays in the Corn Belt. Progress was more than 35 percentage points above normal in Ohio and Indiana, and more than 20 percentage points ahead of average in Iowa, Illinois, and Kentucky. Harvest was also well ahead of the 5-year average in Nebraska, Wisconsin, and Missouri. Progress lagged in the Great Plains due to slow ripening, especially in Colorado where harvest was 18 percentage points behind normal. In the Atlantic Coastal Plains, progress was limited by wet soils and additional rainfall.

Soybeans: Ninety-six percent of the soybean crop was dropping leaves, equal to last year's pace and slightly ahead of the 95-percent average for this date. Above-normal temperatures accelerated ripening in the lower Mississippi Valley and Southeast. Virtually all soybeans were dropping leaves in the Corn Belt. Seventy-four percent of the acreage was harvested, compared with 68 percent last year, and the 65-percent average. Ideal weather aided progress in the Corn Belt. Iowa, Illinois, Minnesota, and Nebraska farmers harvested nearly one-fourth of their soybean acreage. Progress was only slightly slower in South Dakota and Missouri. In the eastern Corn Belt, the pace slowed as many producers finished harvesting their soybeans.

Cotton: Bolls opening advanced to 95 percent complete, equal to last year, but more than 1 week ahead of the 5-year average. Forty-six percent of the acreage was harvested, behind last year's 51 percent, but 4 percentage points ahead of the average for this date. Dry weather aided progress in the southern Great Plains and lower Mississippi Valley. Progress nearly doubled in Oklahoma, advancing to 41 percent complete. Harvest advanced between 15 or more

percentage points in Arkansas, Mississippi, and Tennessee. Rain limited progress in parts of the Southeast, especially in the Piedmont, but also in scattered parts of Alabama and Georgia, and coastal areas of North and South Carolina.

Winter Wheat: Winter wheat seeding advanced to 79 percent, 7 percentage points ahead of last year, and slightly ahead of the 5-year average. In the eastern Corn Belt, farmers rapidly prepared and seeded soft red winter wheat in recently harvested corn and soybean fields. In Oregon, many irrigated fields were planted, but seeding in dryland fields was much slower, as most producers continued to wait for rain. Fifty-five percent of the acreage was emerged, ahead of last year's 48 percent and slightly ahead of the 52-percent average for this date. Warm weather and improved moisture supplies promoted rapid emergence in the eastern Corn Belt, especially in Ohio, Indiana, and Michigan. However, topsoil moisture levels were precariously low. Above-normal temperatures also promoted emergence in Kansas and Oklahoma, but stands were spotty in some fields due to soil moisture shortages.

Other Crops: Ninety-five percent of the rice crop was harvested, 2 percentage points ahead of last year and the 5-year average. Dry conditions aided progress in California, where producers harvested one-fourth of the crop. The sorghum crop was 92 percent mature and the acreage was 61 percent harvested. Warm weather accelerated ripening in the Great Plains, especially in New Mexico where mature acreage nearly doubled. Dry weather aided harvest in the Corn Belt and Great Plains. Peanut harvest progressed to 59 percent, equal to the average for this date, and ahead of last year when 55 percent was harvested by this date. Digging resumed in North Carolina and Virginia, as soggy soils gradually dried. Producers in both States dug more than one-fourth of the peanut crop.

Crop Progress and Condition

Week Ending October 17, 1999

Soybeans Percent Dropping Leaves				
	Oct 17 1999	Prev Week	Prev Year	5-Yr Avg
AL	90	71	88	79
AR	74	61	81	70
GA	77	66	79	82
IL	99	98	97	97
IN	100	100	100	100
IA	100	100	100	100
KS	94	91	99	97
KY	95	89	94	88
LA	100	93	98	93
MI	100	100	100	100
MN	99	99	99	99
MS	100	98	100	91
MO	96	89	96	93
NE	99	99	100	100
NC	65	48	71	66
OH	100	100	100	98
SC	32	24	31	32
SD	100	99	100	100
TN	93	86	95	89
19 Sts	96	94	96	95

These 19 States planted 93% of last year's soybean acreage.

Soybeans Percent Harvested				
	Oct 17 1999	Prev Week	Prev Year	5-Yr Avg
AL	44	30	34	24
AR	43	31	42	34
GA	14	12	14	10
IL	75	51	68	74
IN	82	70	71	73
IA	90	67	84	81
KS	58	28	53	53
KY	71	52	52	31
LA	90	75	85	71
MI	65	46	58	51
MN	91	67	89	79
MS	82	68	81	64
MO	58	36	47	45
NE	88	64	74	74
NC	13	10	14	9
OH	81	74	81	69
SC	6	5	5	3
SD	58	36	71	66
TN	49	38	40	23
19 Sts	74	54	68	65

These 19 States harvested 93% of last year's soybean acreage.

Winter Wheat Percent Planted				
	Oct 17 1999	Prev Week	Prev Year	5-Yr Avg
AR	23	9	14	24
CA	4	2	1	3
CO	99	96	98	95
GA	3	2	4	5
ID	82	66	85	80
IL	66	36	51	62
IN	67	42	59	64
KS	93	79	76	88
MI	83	61	78	77
MO	46	26	32	46
MT	95	81	88	85
NE	99	97	98	99
NC	20	15	24	25
OH	82	62	83	75
OK	84	74	65	77
OR	27	5	68	67
SD	96	92	96	97
TX	67	59	68	72
WA	92	84	91	92
19 Sts	79	68	72	78

These 19 States planted 91% of last year's winter wheat acreage.

Winter Wheat Percent Emerged				
	Oct 17 1999	Prev Week	Prev Year	5-Yr Avg
AR	7	1	5	9
CA	0	0	0	0
CO	85	75	86	84
GA	1	0	2	2
ID	33	21	48	44
IL	20	3	18	23
IN	31	7	29	28
KS	66	45	46	60
MI	50	26	56	51
MO	18	7	12	21
MT	64	43	62	56
NE	89	79	89	90
NC	12	4	4	3
OH	51	10	48	33
OK	54	33	31	37
OR	3	1	49	36
SD	81	71	87	86
TX	45	35	46	53
WA	81	63	80	76
19 Sts	55	39	48	52

These 19 States planted 91% of last year's winter wheat acreage.

Corn Percent Harvested				
	Oct 17 1999	Prev Week	Prev Year	5-Yr Avg
CO	19	15	48	37
GA	100	99	98	96
IL	72	59	56	49
IN	70	55	43	34
IA	58	33	49	36
KS	67	52	80	70
KY	96	92	88	76
MI	45	28	48	23
MN	48	28	57	39
MO	76	69	68	61
NE	53	32	60	37
NC	80	75	99	89
OH	56	42	34	21
PA	33	20	39	31
SD	25	19	41	28
TX	94	91	95	93
WI	43	28	38	24
17 Sts	59	43	55	42

These 17 States harvested 90% of last year's corn acreage.

Peanuts Percent Harvested				
	Oct 17 1999	Prev Week	Prev Year	5-Yr Avg
AL	80	68	48	71
FL	87	86	63	47
GA	74	67	61	75
NC	41	15	57	49
OK	39	30	45	43
SC	38	28	53	62
TX	27	21	42	33
VA	75	49	79	85
8 Sts	59	50	55	59

These 8 States harvested 99% of last year's peanut acreage.

Rice Percent Harvested				
	Oct 17 1999	Prev Week	Prev Year	5-Yr Avg
AR	96	93	96	94
CA	85	60	68	74
LA	100	100	100	99
MS	96	94	98	97
TX	100	100	100	99
5 Sts	95	90	93	93

These 5 States harvested 96% of last year's rice acreage.

Crop Progress and Condition

Week Ending October 17, 1999

Cotton Percent Bolls Opening				
	Oct 17 1999	Prev Week	Prev Year	5-Yr Avg
AL	96	93	94	91
AZ	100	100	99	100
AR	100	98	99	97
CA	95	90	94	99
GA	93	89	88	88
LA	100	100	100	100
MS	100	100	100	99
MO	100	100	100	98
NM	90	85	93	96
NC	98	95	99	98
OK	98	97	99	75
SC	93	87	97	92
TN	100	100	100	100
TX	91	87	93	83
14 Sts	95	91	95	90

These 14 States planted 98% of last year's cotton acreage.

Cotton Percent Harvested				
	Oct 17 1999	Prev Week	Prev Year	5-Yr Avg
AL	52	42	54	43
AZ	22	13	23	35
AR	77	62	59	53
CA	10	3	2	21
GA	30	24	36	33
LA	92	83	80	77
MS	86	68	86	68
MO	90	82	42	50
NM	6	2	9	11
NC	10	5	51	31
OK	41	21	55	25
SC	31	23	53	35
TN	75	59	68	53
TX	35	28	52	36
14 Sts	46	36	51	42

These 14 States harvested 98% of last year's cotton acreage.

Sorghum Percent Mature				
	Oct 17 1999	Prev Week	Prev Year	5-Yr Avg
AR	100	100	100	100
CO	81	64	92	77
IL	99	91	88	87
KS	96	86	99	94
LA	100	100	100	100
MS	100	100	100	100
MO	94	91	98	93
NE	92	87	100	97
NM	88	*45	61	51
OK	86	77	86	66
SD	89	84	99	98
TX	90	87	95	94
12 Sts	92	85	96	92

These 12 States planted 99% of last year's sorghum acreage.

Sorghum Percent Harvested				
	Oct 17 1999	Prev Week	Prev Year	5-Yr Avg
AR	100	99	99	96
CO	18	15	21	22
IL	69	51	34	34
KS	49	28	59	51
LA	100	100	100	99
MS	100	100	100	98
MO	69	58	67	58
NE	37	21	54	43
NM	14	9	10	9
OK	39	24	28	23
SD	29	19	62	43
TX	87	83	72	76
12 Sts	61	47	61	57

These 12 States harvested 99% of last year's sorghum acreage.

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

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/oce/waob/jawf>.

ALABAMA: Days suitable for fieldwork 5.1. Topsoil moisture 4% very short, 39% short, 55% adequate, 2% surplus. Corn 98% harvested, 100% 1998, 95% average. Cotton bolls 96% opening, 94% 1998, 91% average. Cotton 52% harvested, 54% 1998, 43% avg. Soybeans 100% blooming, 100% 1998, 100% avg. Soybeans setting 100% pods, 100% 1998, 100% avg. Soybeans 90% dropping leaves, 88% 1998, 79% avg. Wheat 10% planted, 15% 1998, 20% avg. Soybean 54% very poor, 16% poor, 18% fair, 12% good. Pasture feed 12% very poor, 29% poor, 40% fair, 18% good, 1% excellent. Livestock 8% very poor, 15% poor, 41% fair, 33% good, 3% excellent.

ALASKA: NO DATA AVAILABLE UNTIL APRIL 2000.

ARIZONA: Cotton harvest picks up the pace throughout most of Areas with good harvesting conditions. Alfalfa harvest activity was reported as 37% not being harvested, 7% light, 21% moderate, 35% active. Alfalfa condition was reported 5% poor, 23% fair, 60% good, 12% excellent. Range, Pasture feed remained constant despite the continued lack of rain. Conditions were reported as 1% poor, 9% fair, 42% good, 48% excellent. Last week central areas producers shipped cantaloupes, green onions, watermelons. Eastern Areas producers shipped apples, chile peppers, pumpkins. Producers in western areas shipped cantaloupes, honeydews. Central Areas citrus producers harvested lemons, western citrus producers harvested lemons, navel last week.

ARKANSAS: Days suitable for fieldwork 6. Topsoil moisture 13% very short, 38% short, 44% adequate, 5% surplus. Temperatures for the week were warmer than normal. Areas was hot, dry for most of the week. A cold front came in on Saturday evening bringing in light rainfall to some parts of the state. Livestock were reported in fair condition. Many farmers were feeding supplemental hay early this year because of the drought conditions. The main farm activities were: Harvesting cotton, soybeans, planting wheat. Other activities included: Harvesting rice, sorghum, liming pastures, fertilizing pastures, bush hogging, land leveling, planning for fall pastures, spraying fields for insects, weeds, preparing land for planting of annual forages such as rye, ryegrass, defoliating cotton, continued pumpkin harvesting, treating crop lands for armyworms, fields were being subsoiled, plowed, tree fruit, small fruit harvesting, dusting, ear tagging cattle for external parasites, planning for Brucellosis vaccinations, fall calving, giving vaccinations, pregnancy checking spring bred cows, selling cull cows, weaning calves. Crop development and harvest continued ahead of the five year average in most categories due to hot, dry conditions. Corn 100% harvest; Cotton 100% opening bolls, 77% harvested, 1% very poor 10% poor 41% fair 35% good 13% excellent; Soybeans 100% setting pods, 74% shedding, 43% harvested, 11% very poor 18% poor 29% fair 31% good 11% excellent; Sorghum 100% mature, 100% harvested; Wheat 23% planted, 7% emerged; Alfalfa 8% very poor 23% poor 40% fair 29% good 0% excellent; Other Hay condition 17% very poor 41% poor 29% fair 13% good 0% excellent; Range, pastures feed 18% very poor 40% poor 32% fair 10% good 0% excellent.

CALIFORNIA: Field activities progressed normally under ideal conditions in most areas. Seedbed preparations for fall-seeded small grains, forage crops continued. Planting of wheat, barley, winter forages, new alfalfa was ongoing in central, southern counties. Winter forage was planted between rows in some of the new San Joaquin Valley vineyards. Rice harvest was nearing completion in the Sacramento, San Joaquin valleys. High moisture content was slowing harvest in late planted fields of medium grain rice varieties. Defoliation of Upland cotton varieties was winding down, while American Pima defoliation gained momentum. Upland cotton harvest was in full swing in the southern San Joaquin Valley, in the desert areas. Corn harvest for grain, silage began to wind down in central, southern counties.

Dry beans, sugarbeets were harvested in the San Joaquin Valley, new crop sugarbeets were treated for worms. Grain sorghum was maturing rapidly. Alfalfa, sudangrass were cut for hay or greenchopped. The San Joaquin Valley harvest of grapes for fresh consumption included Red Globe, Thompson Seedless, Emperor varieties. Harvesting of grapes for raisins was nearly complete, almost all of the rolled raisins have been picked up. Picking of wine grapes continued. Harvest of late variety stone fruit continued. Fig harvest continued. Apple, olive harvests were in full swing. Asian pear, pomegranate harvests were active in the San Joaquin Valley. Harvest of almonds, walnuts continued. Pistachio harvest was also active. Valencia oranges, lemons were picked in southern areas. New crop navel oranges were maturing well. Strawberries were being sold at roadside stands. Harvesting of fresh market, processing tomatoes continued. Some tomato fields were sprayed for worms or fungal problems. A few fields of asparagus were sprayed for aphids. The cooling of nighttime temperatures has slowed the fruit set of late summer vegetables. Miniature, regular pumpkins were being marketed at roadside "patches" for the Halloween season. Cucumbers were producing well, although spider mites were a serious problem. Cantaloupe, honeydew harvesting continued to decline. Some late season cantaloupes were dried, sold as fruit leather. Elephant ear (taro) harvest was two weeks away. Lettuce, broccoli harvesting began in the Fresno area. Lettuce fields were weeded, treated for insect pests. Growers were harvesting many crops, including green beans, long beans, basil, baby bok choy, mint, bittermelons, squash, gourds, cardis, okra, camote, marunggai, sinqua, eggplant, garlic, lemon grass, parsley, snap peas, sugar peas, radishes, sweet corn, sweet potatoes. Pasture feed were poor to fair in central, northern areas. Most non-irrigated pastures were in poor condition. Lack of rain was causing very high risk of fire in foothill areas; several large fires were already burning in northern areas. Cold nighttime temperatures were causing rapid deterioration of higher elevation pastures. The few remaining cattle were expected to be shipped in the coming weeks. Cattle on foothill pastures received supplemental feeding. Fall calving continued. In central areas many sheep were on alfalfa pastures. A few sheep were in cantaloupe fields. Lambing was in full swing. Imperial Valley sheep continued to graze on sudan fields, lambs were still arriving for winter alfalfa grazing.

COLORADO: Days suitable for fieldwork 6.1. Topsoil moisture 1% very short, 15% short, 73% adequate, 11% surplus. Subsoil moisture 3% very short, 20% short, 68% adequate, 9% surplus. Warm, dry for most of the week but rain, snow arrived on Saturday in many areas which will slow corn, sorghum harvest. Harvest of most all other crops is nearing completion. Corn silage 100% harvested, 100% 1998, 98% avg. Dry onions 92% harvested, 97% 1998, 97% avg. Sugar beets 30% harvested, 41% 1998, 39% avg.; 1% very poor, 3% poor, 11% fair, 60% good, 25% excellent. Dry beans 99% cut, 100% 1998, 97% avg.; 97% harvested, 98% 1998, 92% avg. Summer potatoes 99% harvested, 99% 1998, 98% avg. Fall potatoes 92% harvested, 97% 1998, 95% avg. Alfalfa 98% 3rd cutting, 94% 1998, 93% avg.; 63% 4th cutting, 51% 1998, 51% avg.; 2% poor, 23% fair, 55% good, 20% excellent. Pasture, range feed in mostly good condition.

DELAWARE: Days suitable for fieldwork 5.3. Topsoil moisture 74% adequate, 26% surplus. Subsoil moisture 2% short, 96% adequate, 2% surplus. Field corn 84% harvested for grain, 72% 1998, 68% avg.; 90% harvested for silage, 100% 1998, 96% avg. Soybeans 80% shedding leaves, 69% 1998, 73% avg.; 11% harvested, 13% 1998, 16% avg. Sorghum 35% harvested, 37% 1998, 23% avg. Apples 85% harvested, 94% 1998, 92% avg. Clover, other hay 69% 4th cutting, 66% 1998, 66% avg. Alfalfa hay 89% 4th cutting, 94% 1998, 89% avg.; 28% 5th cutting, 19% 1998, 23% avg. Hay supplies 10% very short, 35% short, 55% adequate. Pasture 2% poor, 38% fair, 53% good, 7% excellent. Barley 90% good, 10% excellent; 51% seeded, 29% 1998, 50% avg. Wheat 2% fair, 90% good, 8% excellent; 14% seeded, 11% 1998, 14% avg. Activities: Continued corn, soybean harvesting.

FLORIDA: Topsoil moisture throughout rest of State mostly short to adequate with some areas very short or surplus. Hurricane Irene dumped a lot of rain, some parts of southern Peninsula. Immokalee area reported from about 1.50 to 6.00 in. for week; Dade County, from almost 12.00 to over 17.00 in.; Ft. Pierce, from 6.66 to 8.00 in.; Del Ray-Boynton Beach area, almost 18.00 in. Palmetto-Ruskin spared brunt of storm with 0.70 to 1.50 in. Strong winds buffeted crops, blew some blooms, mature fruit off trees, plants, vines in localities affected by storm. Wind speeds gusted from 65 to 75 mph, Del Ray-Boynton Beach; Homestead sustained winds 40 to 50 mph, gusts of over 80 mph as storm passed. Temperatures averaged 5° to 7° above normal, western Panhandle, most of northern Peninsula. Cloud cover kept temperatures normal to 2° above, central, southern Peninsula. Most high temperatures, 80s, 90s. Lows, 60s, 70s. Fields in south areas flooded by Hurricane Irene. Tobacco marketing active. Soybean harvest gaining. Sugarcane mills started opening. Sugarcane knocked down by Hurricane Irene. Haying active. Forage growth improving with increased moisture. Cotton harvest active. Eighty-seven percent of peanuts harvested. Strong winds, abundant rain from Hurricane Irene severely damaged some vegetables around Immokalee, Homestead, East Coast region. Supplies of tomatoes, Bell peppers, some other vegetables from areas affected by the storm will be below normal during November, December. Vegetables marketed during the week include: Tomatoes, peppers, cucumbers, pickles, squash, okra, eggplant. Hurricane Irene dumped a lot of rain on citrus belt Friday, Saturday, growers pumping water out of groves most of weekend. Packers shipping Navels, early oranges, grapefruit, tangerines, K-Early citrus fruit. Caretakers cutting cover crops, pushing out dead trees, planting a few new trees. Pasture feed; 35% fair, 65% good. Condition of cattle; 20% fair, 75% good, 5% excellent.

GEORGIA: Days suitable for field work 4.4. Soil moisture 3% very short, 15% short, 72% adequate, 10% surplus. Cotton 15% very poor, 23% poor, 36% fair, 22% good, 4% excellent. Hay 10% very poor, 21% poor, 40% fair, 27% good, 2% excellent. Peanuts 88% dug, 78% 1998, 87% avg. Rye 42% planted, 47% 1998, 44% avg. Sorghum 75% harvested for grain, 69% 1998, 65% avg. Soybeans 21% very poor, 27% poor, 35% fair, 16% good, 1% excellent. Other small grains 32% planted, 25% 1998, 27% avg. Apples 76% harvested, 86% 1998, 89% avg. Pecans 7% very poor, 15% poor, 30% fair, 40% good, 8% excellent; 6% harvested, 9% 1998, 8% avg. Rains over much of the State last week slowed harvest for many crops. Hurricane Irene passed to the east, had little effect on the State. Soil moisture continued to improve. Soybean leaves continued to drop last week. Leaf drop continued behind the five year average pace, harvest was at 1998 pace. The soybean condition changed slightly. Rains hindered the cotton harvest. Harvest lagged behind 1998 and the five year average pace. The condition changed slightly, but there was concern that prolonged rains may harm color. Low yields, short staple have been reported. Peanut combining was behind the five year average pace. Peanut digging remained ahead of the 1998 pace. Small grain planting was active last week. Rye planting continued slightly behind the five year average pace. Other small grain planting remained ahead of 1998 pace. Limited wheat planting occurred. Hay, pasture feed conditions improved with the rains. Some farmers may get one more cutting if there is no frost. The cooler temperatures lengthen the curing time for hay. Apple harvest continued, but was still behind the five year average pace. Pecan condition changed slightly from the previous week. The pecan harvest lagged behind 1998, the five year average pace. Other activities included: Selling yearling calves, picking squash.

HAWAII: Weather conditions were fair to good for agriculture. Days were generally sunny, dry. Water restrictions reinstated for residents of Upcountry Maui. Farmers are exempt from the mandatory 25% reduction in water use. Irrigation was heavy across the State. Insect, disease losses were light. Banana harvesting steady. Fields in mostly good condition. Papaya harvesting steady. Orchards made favorable progress. Persimmon harvesting underway on Maui. Head cabbage in fair to good condition. Advent of cooler weather expected to boost yields. Maui dry onions made good progress. Bulb size was increasing. Yields, crop quality were good.

IDAHO: Days suitable for fieldwork 6.8. Topsoil 15% very short, 60% short, 25% adequate. Lack of precipitation, inability to irrigate could affect germination of fall grain. Irrigation supply 29% excellent, 60% good, 9% fair,

2% poor. Corn harvested 95% for silage, 91% 1998, 92% avg. Corn 12% harvested for grain, 18% 1998, 16% avg. Onions 91% harvested, 85% 1998, 94% avg. Apples 37% harvested, 41% 1998, 63% avg. Potatoes 88% harvested, 81% 1998, 82% avg. Sugarbeets 45% harvested, 32% 1998, 32% avg. Winter wheat 82% planted, 85% 1998, 80% avg.; 33% emerged, 48% 1998, 44% avg. Activities: Fall field work, planting fall grains, wrapping up harvest of potatoes, sugarbeets, corn, onions, picking apples, winterizing irrigation equipment.

ILLINOIS: Days suitable for fieldwork 5.8. Topsoil moisture 10% very short, 34% short, 55% adequate, 1% surplus. Cooperative weather last week allowed farmers to continue harvest, nearly wrap up this year's crop in some districts. Corn harvest progress continues to vary statewide. Winter wheat seeding is well under way, the warm weather has helped emergence. Other activities for last week include: Fall tillage, hauling grain.

INDIANA: Days suitable for fieldwork 4.6. Topsoil 9% very short, 35% short, 56% adequate, 0% surplus. Subsoil 31% very short, 47% short, 22% adequate, 0% surplus. Recent showers have helped pastures, emergence of winter wheat. Corn, soybean harvest made good progress. Corn harvest 16 days ahead of average. Soybean harvest remains 6 days ahead of average. Harvested corn moisture averaging around 17%, soybeans 11.5% moisture content. Range, pasture feed 25% very poor, 28% poor, 39% fair, 8% good. Pastures greening up. Feeding hay continues. Livestock mostly good condition. Tobacco stripping, baling underway. Activities: Applying fertilizer, spreading lime, seeding winter wheat, tillage of soils, chopping stalks, hauling grain, harvesting tobacco, feeding hay, caring for livestock.

IOWA: Days suitable for fieldwork 7.0. Topsoil 28% very short; 48% short, 24% adequate. Subsoil 23% very short, 46% short, 30% adequate, 1% surplus. Another week without rain has caused dry conditions to worsen throughout areas. Dry conditions continue to be a fire hazard for combines, are making fall tillage difficult. Warm, dry weather has benefited fieldwork, harvest. Corn 58% harvested, 49% 1998, 36% avg. Percent moisture of all field corn 18% averaged.; 16% harvested corn averaged. Corn lodging: 42% none, 42% light, 12% moderate, 4% heavy. Corn ear droppage 48% none, 42% light, 7% moderate, 3% heavy. Soybeans 90% harvested, 84% 1998, 81% avg. Soybean lodging 50% none, 40% light, 9% moderate, 1% heavy. Soybeans 39% shattering none, 41% light, 15% moderate, 5% heavy. Winter wheat 71% planted, 60% 1998, 73% avg. Fall 8% tillage, 8% 1998, 9% avg. Range, pasture feed 11% very poor, 26% poor, 35% fair, 24% good, 4% excellent.

KANSAS: Days suitable for fieldwork 6.7. Topsoil 6% very short, 32% short, 61% adequate, 1% surplus. Subsoil 3% very short, 26% short, 70% adequate, 1% surplus. Farmers took advantage of dry, mild weather conditions last week to continue wheat seeding, fall harvest. Little rain fell across the State, which enabled farmers to work in the fields nearly every day last week. Harvest of fall crops surged ahead, but, with the exception of soybeans, is still behind normal progress for this time of year. Seeding of wheat continues ahead of both 1998 progress, average. Soybean 3% very poor, 14% poor, 44% fair, 36% good, 3% excellent. Sorghum 1% very poor, 5% poor, 28% fair, 58% good, 8% excellent. Wheat 3% poor, 21% fair, 65% good, 11% excellent. Sunflower 2% poor, 18% fair, 66% good, 14% excellent. Sunflowers 95% mature, 95% 1998. Sunflowers 42% harvested, 75% 1998. Hay, forage supplies 5% short, 83% adequate, 12% surplus. Stock water supplies 1% very short, 11% short, 87% adequate, 1% surplus. Last week, ranchers were busy moving cattle from pastures to feedlots or row crop stubble. Other activities included: Fall calving, lambing, weaning, marketing calves.

KENTUCKY: Day suitable for fieldwork 4.3. Topsoil moisture 10% very short, 37% short, 52% adequate, 1% surplus. Subsoil moisture 47% very short, 34% short, 19% adequate. For the week, temperatures averaged 63°, 4° above normal, 2° warmer than previous week. Scattered rain fell in the eastern areas of the Commonwealth on Wednesday, Thursday. Rainfall Statewide was 0.1 inches. Late tobacco was being harvested last week. Condition of housed tobacco was 4% very poor, 15% poor, 39% fair, 35% good, 7% excellent. Burley stripped 14%, 14% 1998, 12% avg. Wheat 35%

seeded, 44% 1998, 43% avg. Pasture feed 23% very poor, 41% poor, 27% fair, 8% good, 1% excellent. Farmers continue feeding hay to livestock.

LOUISIANA: Days suitable for fieldwork 5.6. Soil moisture 6% very short, 23% short, 61% adequate, 10% surplus. Cotton harvest edged closer to completion. Hay 96% final cutting, 88% 1998, 93% avg. Pecans 6% very poor, 12% poor, 40% fair, 38% good, 4% excellent; 16% harvested, 11% 1998, 9% avg. Soybean harvest continued. Sugarcane 2% poor, 19% fair, 47% good, 32% excellent; 22% harvested, 9% 1998, 11% avg. Sugarcane harvest was slowed by heavy showers. Sweet potatoes 74% harvested, 69% 1998, 71% avg. Wheat 17% planted, 29% 1998, 18% avg.; 4% emerged, 15% 1998, 6% avg. Livestock 1% very poor, 7% poor, 37% fair, 46% good, 9% excellent. Vegetables 5% very poor, 15% poor, 33% fair, 41% good, 6% excellent

MARYLAND: Days suitable for fieldwork 5.2. Subsoil moisture 10% very short, 8% short, 73% adequate, 9% surplus. Topsoil moisture 1% very short, 4% short, 71% adequate, 24% surplus. Corn 73% harvested for grain, 73% 1998, 63% avg. Soybeans 79% shedding leaves, 89% 1998, 84% avg.; 18% harvested, 33% 1998, 24% avg. Sorghum 45% harvested, 37% 1998, 34% avg. Apples 80% harvested, 78% 1998, 76% avg. Tobacco 5% stripped, 4% 1998, 5% avg. Clover, other hays 84% 4th cutting, 90% 1998, 72% avg. Alfalfa 72% 4th cutting, 94% 1998, 90% avg.; 33% 5th cutting, 38% 1998, 36% avg. Wheat 10% fair, 80% good, 10% excellent; 26% seeded, 35% 1998, 29% avg. Barley 15% fair, 75% good, 10% excellent; 72% seeded, 65% 1998, 67% avg. Rye 5% fair, 80% good, 15% excellent; 42% seeded, 47% 1998, 50% avg. Pasture feed 1% very poor, 8% poor, 19% fair, 59% good, 13% excellent. Hay supplies 11% very short, 46% short, 43% adequate. Activities: Continued small grain seeding, apple, corn, soybean harvesting.

MICHIGAN: Days suitable for fieldwork 5.0. Topsoil 5% very short, 22% short, 71% adequate, 2% surplus; subsoil 7% very short, 50% short, 43% adequate, 0% surplus. Corn 1% very poor, 11% poor, 22% fair, 49% good, 17% excellent. Soybeans 1% very poor, 10% poor, 33% fair, 46% good, 10% excellent. Winter Wheat 0% very poor, 1% poor, 22% fair, 65% good, 12% excellent. Hay 4th cutting 85%, 55% 1998, 57% avg. Temperatures remained slightly cooler than normal again this week. With cool temperatures, crops drying down, harvest was moving quickly. Scattered rainfall across state. Corn for grain harvest in full swing as harvest ahead of normal. Corn silage harvest wrapped up. Soybean harvest progressed at a rapid pace. Fourth cutting of hay continuing. Winter wheat planting continued as timely rains have helped emergence of wheat. Dry bean harvest finishing up. Sugarbeet harvest has started most areas. Potato harvest continuing. Late season apple varieties being harvested. Harvest should be completed in two more weeks.

MINNESOTA: Days suitable for fieldwork 6.0. Topsoil 2% very short, 19% short, 67% adequate, 12% surplus. Soybeans 11% moisture content, 12% 1998, 12% avg.; 49% stubble worked, 50% 1998, 41% avg. Corn 18% moisture content, 18% 1998, 22% avg.; 22% stubble worked, 23% 1998, 14% avg. Dry beans 92% harvested, 98% 1998, 94% avg. Sugarbeets 99% harvested, 75% 1998, 70% avg. Sunflowers 34% harvested, 42% 1998, 54% avg. Potatoes 86% harvested, 91% 1998, 90% avg. Pasture feed 3% very poor, 20% poor, 32% fair, 37% good, 8% excellent. Days in most of the state were dry, seasonably mild, with plenty of sunshine. Steady progress on late crops to this point means that 1999 now rivals the past two years for earliness of getting harvest completed. Precipitation was generally very light, with none recorded in many locations. Access to fields has been nearly ideal. Field drying of crops has also been excellent, but there is some concern about whether the recent dry conditions will extend into the next growing season.

MISSISSIPPI: Days suitable for fieldwork 5.8. Soil moisture, 15% very short, 30% short, 51% adequate, 4% surplus. Cotton 86% harvested, 86% 1998, 68% avg. Rice 96% harvested, 98% 1998, 97% avg. Soybeans 82% harvested, 81% 1998, 64% avg. Sweet potatoes 75% harvested, 67% 1998, 71% avg.; 2% very poor, 7% poor, 40% fair, 50% good, 1% excellent. Wheat 33% planted, 17% 1998, 36% avg.; 15% emerged, 24% 1998, 12% avg.; 2% very poor, 7% poor, 33% fair, 54% good, 4% excellent. Cattle, 2% very poor,

11% poor, 36% fair, 45% good, 6% excellent. Pasture 15% very poor, 22% poor, 35% fair, 26% good, 2% excellent. Row crop harvests are processing ahead of normal in most parts of the state. Fall planting has been helped by rainfall in some parts of the state.

MISSOURI: Days suitable for fieldwork 6.0. The topsoil moisture supply was rated as 23% very short, 40% short, 37% adequate. The north-central, northeast districts reported mostly adequate moisture while the south-central district reported moisture in very short supply. Harvesting of row crops throughout the State is in full swing. Harvest was 60% or more complete for all row crops. Seventy-six percent of the corn was harvested, about 5 days ahead of the same date 1998, ten days ahead of the normal of 61%. Ninety-six percent of the soybeans were dropping leaves or beyond, 86% had reached maturity. The maturing process is similar to 1998 but 4 days ahead the 5-year average of 80%. Harvesting was over the half-way mark with 58% complete, 3 days ahead of 1998, 4 days ahead of the 5-year average of 47%. The most advanced district was the northeast with 74% harvested. The northwest district made the greatest progress during the week, going from 27% harvested the previous week to over 60%. Harvesting of the grain sorghum crop was 69% complete, similar to 1998, but 7 days ahead of the 5-year average of 59%. Progress ranged from virtually complete in the Bootheel, which has the largest acreage of the crop, to 41% complete in the west-central district. Statewide, 94% of the crop was mature, similar to 1998, but 3 days ahead of the normal for this date. Cotton harvest was 90% complete, 3 weeks ahead of 1998, a month ahead of the average. This is the earliest cotton harvest in the past 20 years. Fall seeding of winter wheat was 46% complete, ranging from 60% seeded in the south-central district to 36% seeded in the southwest. Eighteen percent of the intended crop has emerged. Pasture, range condition was rated at 37% very poor, 33% poor, 22% fair, 7% good, 1% excellent. Precipitation for week ending October 10, 1999 avg. 0.20 inch.

MONTANA: Days suitable for fieldwork 5.8. Topsoil moisture 22% very short, 40% short, 37% adequate, 1% surplus. Subsoil moisture 25% very short, 46% short, 28% adequate, 1% surplus. The week was slightly cooler with very little precipitation across much of the state. Winter wheat 0% very poor, 14% poor, 30% fair, 52% good, 4% excellent. Sugar beets 89% harvested, 52% 1998, 62% avg. Sugar beet harvest is reported to be going smoothly with no problems. Yields are reported to be above normal with good sugar content. Corn 97% for silage harvested, 99% 1998, 97% avg. Potatoes 75% harvested, 77% 1998, 72% avg. Dry beans 98% harvested, 100% 1998, 100% avg. Cattle, calves moved from summer ranges 69%, 68% 1998, 59% avg. Sheep, lambs moved from summer ranges 71%, 75% 1998, 67% avg. Farmers were able to finish harvesting small grains as weather was cooperative to do so. One exception is in the northeast part of the state where some small grains have not yet been harvested, primarily durum wheat. As a result, there are reports of frost damage in that area. The extent of the damage has not yet been determined, won't be until producers are able to cut those remaining fields.

NEBRASKA: Days suitable for field activities 7.0. Topsoil moisture rated 26% very short, 44% short, 30% adequate. Subsoil 21% moisture very short, 36% short, 43% adequate. Temperatures across areas averaged from 1 to 4^o above normals. Only traces of precipitation was reported across the State for the week. Corn harvest was at 53%, below 60% 1998 but above 37% avg. Soybean harvest jumped to 88%, ahead of 74% 1998. Sorghum mature was at 90%, behind 100% 1998, 97% avg. Harvest was 37% complete, near 54% 1998, 43% avg. Dry beans harvest moved ahead to 98%, just ahead of 95% 1998, 98% avg. Alfalfa rated 3% very poor, 13% poor, 42% fair, 39% good, 3% excellent. Alfalfa 4th cutting was at 95% complete, ahead of 1998, 93%, 88% avg. Wheat seeded rated 99%, ahead of 98% 1998, but same as average. Wheat was 89% emerged, same as 1998, behind 90% avg. Proso Millet harvest was near complete at 88%. Pasture, range rated 7% very poor, 16% poor, 36% fair, 38% good, 3% excellent. Producer activities included: Harvesting of crops, working the herds, building electric fences, shredding corn stalks, discing.

NEVADA: Temperatures were well above normal early in the week, but fell sharply later in the week. Temperatures were below normal late in the week, daily lows dipped below freezing. No precipitation was reported for the week. Irrigation continued. Fourth cutting of alfalfa hay was wrapping up in most

parts of the State. Garlic, onion harvest were completed. Potato harvest was well over half completed, the potatoes appear to be in good condition. Fall planting of winter wheat, new alfalfa neared completion. Cattle continued to be moved to the fall/ winter range. Fall weaning of calves continued. Pregnancy checking of cows continued. Main farm, ranch activities: Harvesting alfalfa, fall planting, digging potatoes, burning seed fields, gathering, moving cattle, weaning of livestock.

NEW ENGLAND: Days suitable for fieldwork 5.9. Topsoil 3% short, 63% adequate, 34% surplus. Subsoil 2% very short, 10% short, 72% adequate, 16% surplus. Pasture feed 3% very poor, 8% poor, 40% fair, 44% good, 5% excellent. Maine potatoes 95% harvested, 95% 1998, 95% avg.; condition excellent to good. Massachusetts potatoes 90% harvested, 90% 1998, 95% avg.; condition good to fair. Rhode Island potatoes 95% harvested, 95% 1998, 90% avg.; condition fair to poor. Oats in Maine 100% harvested, 100% 1998, 99% avg.; condition good to excellent. Field corn 95% harvested, 90% 1998, 85% avg.; condition good to fair. Sweet corn 100% harvested, 100% 1998, 100% avg.; condition good to fair. 2nd cut hay 95% harvested, 95% 1998, 95% avg.; condition good to fair. Third cut hay 90% harvested, 85% 1998, 90% avg.; condition fair. Apples 90% harvested, 85% 1998, 90% average; size average to below average, condition good. Pears 95% harvested, 90% 1998, 95% average; size below average, condition fair to poor. Cranberries 80% harvested, 75% 1998, 70% average, size average, condition good to excellent. Major farm activities included: Chopping hay, corn, digging potatoes; picking apples and pears; spreading manure and lime; planting winter cover crops; cleaning fields; preparing equipment for winter storage.

NEW JERSEY: Days suitable for fieldwork 6. Temperatures averaged near normal. Weekly rainfall averaged 0.41 inches North, 0.65 inches Central, 1.01 inches South. The heaviest 24 hour total was 1.64 inches at Atlantic City Marina on the 17th to the 18th. Estimated soil moisture, in percent of field capacity, this past week averaged 98% North, 92% Central, 75% South. Four inch soil temperatures averaged 53° North, 55° Central, 57° South. Irrigation water supply is adequate in most areas. Planting of small grains, cover crops continued across the state. Harvest of grain corn is underway with below average yields reported. Harvest of soybeans started in areas of South, Central Areas. Early planted soybeans are in poor condition while the late planted crop is in fair condition. Cutting of alfalfa and other hay continued during the week, the condition is between good, fair for both crops. Most hay farmers are working on their final cutting. Harvest of peppers, snap beans, lima beans, eggplants, other summer vegetables is winding down. Frost damage has been reported in some pepper fields. Harvest of fall cabbage, lettuce, spinach is in full swing, their condition is between good, fair in most areas. Harvest of pumpkins is increasing rapidly. Harvest of apples continued, good quality has been reported. Harvest of cranberries is also underway.

NEW MEXICO: Days suitable for fieldwork 6.7. Warm dry weather continued for most of the week, but the first significant winter-type storm of the season blasted through the state during the weekend. As much as a foot of snow fell in the higher elevations along the eastern slopes of the Sangre de Cristos, Sandias, Manzano Mountains. Greatest precipitation totals included 1.00" at Ruidoso, .78" at Gran Quivira, 70" at Red River. With the warm start, cold finish to the week, the week's average temperature for the state was normal. High temperatures on Sunday were as much as 40, 50° lower than readings on Friday, Saturday. The first killing frost of the year hit many areas of the State over the weekend. Farmers were busy harvesting any remaining vegetables, while ranchers remained active moving and shipping cattle. Alfalfa harvest is virtually complete for the year. Green chile harvest was over except for isolated fields. Red chile harvest picked up during the week. Corn, sorghum for grain harvest also accelerated during the week. Sorghum, wheat conditions were in mostly good condition. Pasture, Range feed were reported at 5% very poor, 7% poor, 40% fair, 40% good, 8% excellent. Cattle, sheep conditions remained in mostly fair to good condition.

NEW YORK: Days suitable for fieldwork 5.0. Soil moisture 10% short, 85% adequate, 5% surplus. Pasture feed 40% fair, 60% good. Corn silage harvest finished. Corn for grain harvest picked up momentum. Soybean combining in full swing. Late season vegetable harvests continued. Apple

picking remained in high gear. Harvest of Golden Delicious, Rome apples underway. Grape harvest winding down.

NORTH CAROLINA: Days were suitable for fieldwork 4.3. Statewide, compared to 4.7 last week. Areas had a mild week with typical temperatures, heavy rainfall in the mountains, southern Piedmont. Rainfall amounts improved topsoil moisture ratings to adequate in most of the Mountain region. Although the Coastal Plain region continued to dry out, surplus moisture levels are expected to increase from Hurricane Irene. The Piedmont region's moisture rose to 46% surplus causing the surplus ratings for the state to again creep upward with evaluations of 1% very short, 6% short, 54% adequate, 39% surplus. Wet fields continue to slow the planting of small grain crops which are behind schedule as is the harvesting of corn, peanuts. Other activities during the week included: Tobacco harvesting, marketing, moving livestock to market, winter pastures, harvesting of sweetpotatoes, apple harvesting, baling hay. Rainfall amounts from Hurricane Irene will be reflected in next week's report.

NORTH DAKOTA: Days suitable for fieldwork 5. Topsoil 2% very short, 14% short, 78% adequate, 6% surplus. Subsoil 1% very short, 13% short, 78% adequate, 8% surplus. Good progress was made on late season crop harvest last week, despite scattered light rain showers throughout the State. The sugarbeet harvest made record lifting progress this past week as virtually all fields were done. The soybean, dry edible bean, flaxseed harvests also made excellent progress toward completion. Durum wheat 92% combined, 100% 1998, 100% avg. Corn for grain 23% harvested, 54% 1998, 36% avg. Corn for silage 95% chopped, 98% 1998, 96% avg. Dry edible beans 97% combined, 100% 1998, 95% avg. Flaxseed 91% combined, 100% 1998, 96% avg. Potatoes 99% dug, 94% 1998, 95% avg. Soybeans 76% harvested, 81% 1998, 79% avg. Sugarbeets 99% lifted, 73% 1998, 71% avg. Sunflowers 16% harvested, 37% 1998, 39% avg. Emerged crop condition: corn for grain 2% very poor, 5% poor, 20% fair, 64% good, 9% excellent; soybeans 3% very poor, 7% poor, 23% fair, 58% good, 9% excellent; sunflower 2% very poor, 10% poor, 28% fair, 49% good, 11% excellent. Ranchers were busy weaning calves, hauling hay in preparation for winter. Stockwater supplies rated 0% very short, 1% short, 94% adequate, 5% surplus.

OHIO: Days suitable for fieldwork 4.4. Topsoil moisture 15% very short, 31% short, 52% adequate, 2% surplus. Soybeans harvested 81%, 81% 1998, 68% avg. Corn harvested 56% for grain, 34% 1998, 22% avg. Winter wheat 82% planted, 83% 1998, 75% avg. Winter wheat 51% emerged, 48% 1998, 33% avg. Fall, winter apples 74% harvested, 85% 1998, 70% avg. Grapes 90% harvested, 91% 1998. Tobacco 7% stripped, 12% 1998. Pasture 15% very poor, 30% poor, 35% fair, 18% good, 2% excellent. Activities for the week include: Harvesting corn, soybeans; fall tillage; planting wheat; hauling manure; tiling; hauling grain; spreading lime and fertilizer; pressing cider; cutting firewood; baling corn stalks; maintaining equipment; sowing cover crops; weaning calves; emptying waste storage ponds. A Wayne county reporter mentioned a wind storm caused limited lodging of corn. Reported weed pressures include foxtail, Canadian thistle, giant ragweed, Johnson grass, chickweed, lambsquarter. Reported insects include spider mites, leafhoppers, ladybugs, corn earworms. Reported diseases include white mold, sudden death syndrome in soybeans; gray leaf spot, sun dust syndrome, fungus on corn. Fruit, vegetable producers are harvesting apples, pears, pumpkins, squash, peppers, sweet corn, tomatoes. Pumpkins are medium to small in size in Wayne, Medina counties. Pasture, grass conditions are improving with the rain although pasture is still short. Livestock conditions are mostly good although cows, hogs are thinner than usual in certain parts of the state. Liquidation continues due to lack of water, pasture, hay.

OKLAHOMA: Days suitable for fieldwork 6.5. Subsoil moisture 16% very short, 31% short, 53% adequate. Topsoil moisture 18% very short, 39% short, 43% adequate. Dry weather depletes soil moisture levels to lowest since early September. Wheat 2% very poor, 5% poor, 32% fair, 55% good, 6% excellent. Oats 17% very poor, 4% poor, 33% fair, 34% good, 12% excellent; 60% planted, 76% 1998, 55% avg.; 20% up-to-stand, 31% 1998, 21% avg.; Corn 98% harvested, 99% 1998, 91% avg. Soybeans 83% mature, 91% 1998, 79% avg.; 50% harvested, 49% 1998, 45% avg. Peanuts 75% mature, 90% 1998, 81% avg.; 27% combined, 26% 1998, 25% avg.

Alfalfa Hay 3% very poor, 8% poor, 33% fair, 51% good, 5% excellent; 88% 4th cutting, 80% 1998, 92% avg.; 22% 5th cutting, 21% 1998, 43% avg. Other Hay 74% 2nd cutting, 43% 1998, 83% avg. Livestock 4% poor, 26% fair, 67% good, 3% excellent. Feeder steer prices steady to \$1 per cwt. above last week.

OREGON: Days suitable for fieldwork 7. Topsoil 49% short, 38% short, 13% adequate. Subsoil 36% very short, 50% short, 14% adequate. Barley Planted 25%, 35% 1998, 31% avg. Winter Wheat 27% planted, 68% 1998, 67% avg. Winter Wheat 3% emerged, 49% 1998, 36% avg. Range, pasture 8% very poor, 37% poor, 43% fair, 12% good. Activities: Irrigated fields in Eastern Areas mostly seeded, seeding in dryland fields continued at slower pace, waiting for rain. Some producers starting to "dust in" winter wheat. Field preparation continued, field corn harvest beginning. A few producers still bringing in third crop alfalfa in Harney County, sugarbeet harvest continued in Klamath, Umatilla Counties. Fall seeding in Western Areas well underway, as well as ground preparation. Some haying operations continued, along with fertilizing, spraying grass seed fields. Irrigation still required at nurseries, greenhouses because of dry summer type weather. Greenhouses still busy with fall plants, Christmas poinsettias. Preparations underway at nurseries for active fall digging season. Potato harvest nearly complete across State. Some onions still going into storage, carrot harvest continued in northeast. Activity in pumpkin fields energetic in Western Areas. Sweet corn in final stages of harvest, while harvest of some cole crops, root vegetables, a few salad crops continued. Willamette reported susceptible crops frosted out. In Willamette Valley trimming, training of caneberries continued. Hazelnut harvest continued under near ideal weather conditions, apple harvest also continued. In Rogue River Valley pear harvest winding down. Apple, grape harvest continued. On south coast cranberries being harvested, berry color looks good. In Hood River Valley apple, pear harvest continued. Livestock condition is mostly good, some poor to fair on driest ranges, pastures. Supplemental hay feeding required in most western counties. Weaning, vaccinating calves continued in east; also, pregnancy checking. Yearling movement, calf shipments continued too. Range, pasture grasses continued to dry out; recent light rains did not generate much new growth. Only irrigated pastures, some higher ranges that haven't frosted have significant forage available.

PENNSYLVANIA: Days suitable for fieldwork 4.6. Soil moisture 1% very short, 13% short, 71% adequate, 15% surplus. Corn 98% dent, 99% 1998, 99% avg.; 78% mature, 81% 1998, 81% avg.; harvested 33% complete, 39% 1998, 31% avg. Corn 20% very poor, 33% poor, 28% fair, 17% good, 2% excellent. Ensilage corn harvested 92% complete, 91% 1998, 85% avg. Soybeans harvested 10% complete, 15% 1998, 20% avg.; 17% very poor, 28% poor, 32% fair, 19% good, 4% excellent. Potato harvest 88% complete, 83% 1998, 80% avg. Fall plowing 65% complete, 64% 1998, 70% avg. Wheat planted 40% complete, 47% 1998, 61% avg.; emerged 34% complete, 33% 1998. Barley planted 72% complete, 76% 1998, 82% avg.; emerged 53% complete, 47% 1998. Alfalfa 3rd cutting 95% complete, 96% 1998, 95% avg. Alfalfa 4th cutting 70% complete, 76% 1998, 68% avg. Timothy clover 2nd cutting 99% complete, 100% 1998, 100% avg. Quality of hay made 9% very poor, 17% poor, 39% fair, 24% good, 11% excellent. Grape harvest 89% complete, 77% 1998, 73% avg. Apple harvest 70% complete, 78% 1998, 77% avg. Activities: Harvesting corn, soybeans, apples, grapes, cool weather vegetables, potatoes, corn silage; planting barley, wheat and cover crops; machinery maintenance; filling silos; hauling, pumping and spreading manure; spreading lime; caring for livestock; cutting hay; plowing for the fall.

SOUTH CAROLINA: Days suitable for fieldwork 4.5. Soil moisture 2% very short, 9% short, 63% adequate, 26% surplus. Apples 75% harvested, 92% 1998, 87% avg.; 28% poor, 63% fair, 9% good. Livestock 6% poor, 30% fair, 50% good, 14% excellent. Pasture feed 4% very poor, 13% poor, 45% fair, 36% good, 2% excellent. Sorghum 90% matured, 87% 1998, 65% harvested, 61% 1998, 67% avg.; 13% very poor, 25% poor, 48% fair, 14% good. Sweet Potatoes 38% harvested, 59% 1998, 46% avg.; 14% very poor, 18% poor, 52% fair, 16% good. Tobacco 97% stalks destroyed, 97% 1998, 94% avg. Winter grazings 59% planted, 63% 1998, 55% avg.; 44% emerged, 45% 1998, 37% avg.; 44% fair, 49% good, 7% excellent. Winter wheat 15% planted, 21% 1998, 14% avg.; 9% emerged, 12% 1998, 7% avg. Barley 28% planted, 35% 1998, 27% avg.; 17% emerged, 16% 1998, 17%

avg. Oats 30% planted, 28% 1998, 29% avg.; 18% emerged, 12% 1998, 19% avg. Rye 35% planted, 43% 1998, 38% avg.; 27% emerged, 28% 1998, 25% avg.; 45% fair, 50% good, 5% excellent. Pecans 10% harvested, 24% 1998, 15% avg.; 12% poor, 88% fair.

SOUTH DAKOTA: Days suitable for fieldwork 5.9. Topsoil 3% very short, 15% short, 71% adequate, 11% surplus. Subsoil 2% very short, 14% short, 72% adequate, 12% surplus. Sorghum 2% poor, 21% fair, 68% good, 9% excellent; 84% harvested for silage, 98% 1998, 90% avg. Soybean 1% very poor, 3% poor, 17% fair, 57% good, 22% excellent; 93% mature, 100% 1998, 98% avg. Corn 3% poor, 16% fair, 58% good, 23% excellent; 93% mature, 100% 1998, 98% avg.; 97% harvested for silage, 98% 1998, 95% avg. Sunflower 4% poor, 19% fair, 63% good, 14% excellent; 97% bracts yellow, 100% 1998, 100% avg.; 77% mature, 100% 1998, 98% avg.; 18% harvested, 63% 1998, 48% avg. Winter rye 95% seeded, 100% 1998, 99% avg.; 80% emerged, 93% 1998, 91% avg. Stock water supplies 1% very short, 4% short, 83% adequate, 12% surplus. Cattle 6% fair, 68% good, 26% excellent. Sheep 1% poor, 4% fair, 66% good, 29% excellent.

TENNESSEE: Days suitable for fieldwork 5.0. Topsoil 24% very short, 36% short, 39% adequate, 1% surplus. Subsoil 38% very short, 37% short, 24% adequate, 1% surplus. Burley 28% stripped, 32% 1998, 27% avg. Pasture feed 34% very poor, 36% poor, 26% fair, 4% good. Winter wheat 23% seeded, 28% 1998, 31% avg. This past week, farmers across the State were busy taking advantage of last weekend's rainfall by seeding winter wheat, preparing pastures. Wheat growers made up for lost time, by the end of the week were only running about 5 days behind the five-year average pace. Planting was delayed this year due to the extremely dry conditions. Pasture conditions improved last week with 30% now rated in fair to good condition compared to only 16% the previous week. Farmers report the recent rains helped improve pastures but more is needed to replenish the soil, fill ponds, creeks. Tobacco growers continued stripping and preparing their crop for market.

TEXAS: Daytime temperatures remained generally warm, mild with cool nights across the state while only light rain showers fell in isolated areas. Harvest continued while land preparation remained slowed from lack of moisture. Livestock conditions continued to decline in most areas as general conditions were beginning to resemble the drought of last year. Supplemental feeding continued in most areas with little chance for improved winter forage. Herd reduction continued in many areas and markets remained slightly weak. Snow flurries and cold temperatures occurred on the Plains at weeks end. The Farmer-Stockman Show held in Lubbock attracted a large audience and was widely considered a success.

Crops: Small Grains: Seeding of wheat and oats continued slow in most areas. Some seedling death occurred as a result of too little moisture in fields that showed some emergence. In other locations improved growth occurred as a result of recent rain showers. Statewide wheat condition was rated at 53 percent of normal compared with 44% 1998. Corn: Harvest neared completion on the High Plains. Yields were varied as some fields suffered hail damage in recent months. Markets continued to be weak. Cotton: Harvest continued to expand on the High Plains but slowed at weeks end by colder temperatures and light snow. In the Coastal Bend gins are expected to remain open through October. Harvest was winding down in the Blacklands, Central Texas. Cotton stalk destruction continued in South Texas as some drying out was still occurring. Cotton 58% of normal compared with 46% 1998. Peanuts: Harvest activities remained active in the Plains, Central, South Texas. In anticipation of freezing conditions, digging was halted in the Plains and North Texas at weeks end. Peanut 77% of normal, 52% 1998. Rice: Harvest of the second crop was in full swing. Sorghum: Harvest continued active on the High Plains under generally mild and open conditions. Yields were generally favorable. Turning color 99%, 100% 1998, 100% avg. Soybeans: Harvest expanded on the High Plains with generally good yields.

Commercial Vegetables: Rio Grande Valley, planting continued for carrots, cabbage, onions while other fall vegetables showed good progress. Excess moisture from Hurricane Bret caused damage, loss to watermelons. San Antonio-Winter Garden, cabbage, onion planting continued but neared completion and preparation for other fall vegetables remained in full swing. East Texas, planting of fall crops, gardens continued slowly as the dry weather continued. Sweet potato harvest continued and preparation for more

blueberry production began. Pine tree harvest was active. High Plains, pumpkin harvest continued, was winding down with generally good yield reported. Pecan crop neared maturity, stress from lack of moisture continued. Insect damage was evident. Shuck split continued, harvest activities continued to increase.

Range and Livestock: Livestock water continued to decline in most areas. Most pastures had only limited forage and supplemental feeding continued to increase. Hay was cut, baled in isolated locations. Fall grazing from wheat, oats was minimal. Burn bans remained in effect in many locations.

UTAH: Days suitable for fieldwork 7. Topsoil 4% very short, 26% short, 68% adequate, 2% surplus. Subsoil 3% very short, 26% short, 71% adequate. Pasture feed, range 2% very poor, 16% poor, 32% fair, 46% good, 4% excellent. Corn 78% mature, 81% 1998, 77% avg.; 26% harvested for grain, 18% 1998, 28% avg. Corn 97% silage harvested, 92% 1998, 92% avg. Winter wheat 91% planted, 99% 1998, 96% avg.; 62% emerged, 76% 1998, 70% avg. Alfalfa hay 79% 4th cutting, 88% 1998, 81% avg. Alfalfa seed 50% harvested, 97% 1998, 81% avg. Apples 82% picked, 60% 1998, 68% avg. Potatoes 82% harvested, 87% 1998, 85% avg. Onions 89% harvested, 80% 1998, 88% avg. Cattle moved from summer range 77%, 80% 1998, 81% avg. Sheep moved from summer range 75%, 83% 1998, 83% avg. Major activities included: Harvesting alfalfa hay, corn silage, onions. Movement of livestock to winter ranges continued, as did the planting of winter grain.

VIRGINIA: Days suitable for fieldwork 5.6. Topsoil 5% very short, 12% short, 69% adequate, 14% surplus. Subsoil 11% very short, 25% short, 56% adequate, 8% surplus. Pasture feed 5% very poor, 15% poor, 29% fair, 42% good, 9% excellent. Livestock 1% very poor, 7% poor, 24% fair, 54% good, 14% excellent. Corn for grain 75% harvested, 81% 1998, 70% avg. Soybeans 66% dropping leaves, 69% 1998, 69% avg.; 10% harvested, 14% 1998, 14% avg.; 5% very poor, 14% poor, 33% fair, 39% good, 9% excellent. Winter wheat 13% seeded, 15% 1998, 18% avg. Barley 54% seeded, 37% 1998, 45% avg. Tobacco, flue cured 95% harvested, 92% 1998, 95% avg. Peanuts 75% dug, 79% 1998, 85% avg.; 55% combined, 56% 1998, 67% avg.; 4% very poor, 6% poor, 34% fair, 51% good, 5% excellent. Cotton 96% bolls opening, 100% 1998, 90% avg.; 16% harvested, 63% 1998, 32% avg.; 3% very poor, 8% poor, 40% fair, 46% good, 3% excellent. All apples 2% very poor, 14% poor, 27% fair, 47% good, 10% excellent. Apples, fall 80% harvested, 69% 1998, 75% avg. Apples, winter 54% harvested, 39% 1998, 52% avg. Favorable weather conditions across the Commonwealth allowed crop producers nearly six days of field work during the past week. Weekend rainfall associated with Hurricane Irene brought activities to a halt in much of the southeastern portion of State. Some isolated areas received six inches of rain in just over twenty-four hours. No major flooding or wind damage was reported, however many fields were saturated, will be inaccessible for at least three days. Pasture acreage remains in good condition. Livestock producers are grazing their herds on available forage in order to conserve winter feed supplies. Hay producers are busy baling their last cutting of hay for the season. Even though the hay is poor it is more economical than purchasing alternate winter feed. Corn harvest continues slightly behind 1998 but ahead of the average. Soybean harvest remains slightly behind schedule as well. Producers made progress during the past week. However, many are still plagued by wet field conditions. Small grain producers continue to prepare land and seed fields as weather permits. Tobacco harvest is nearly complete with a few isolated fields of flue-cured tobacco remaining. During most of the week southeastern areas experienced conditions favorable for digging, harvesting peanuts. Producers were able to catch up to 1998 but are still slightly behind the average. Cotton harvest remains far behind normal. Producers report that progress will remain slow until peanut harvest is complete. Virginia apples continue to be rated in mostly fair or better condition. Harvest of both fall and winter apples remains ahead of the average. Other activities for the week included harvesting of vegetable crops, liming and fertilizing, and feeding, vaccinating livestock.

WASHINGTON: Days suitable for fieldwork 7.0. Topsoil 32% very short, 41% short, 27% adequate. Subsoil 21% very short, 49% short, 30% adequate. Winter wheat 92% planted, 91% 1998, 92% avg.; 81% emerged, 80% 1998, 76% avg. Winter wheat seeded was nearing completion, wheat that had emerged was looking ok. Those fields that were re-seeded still need

precipitation for emergence. Potatoes 90% harvested, 78% 1998, 79% avg. Hay, other roughage supplies 7% short, 62% adequate, 31% surplus. Range, pasture feed 12% very poor, 29% poor, 37% fair, 20% good, 2% excellent. Fourth, 5th alfalfa hay cuttings were underway, dairy producers continued to cut corn for silage. Fruit harvest continued in full swing including grapes, apples. Quality reports were the best in several years although yields were below expected range in many blocks. Grapes being harvested were also being reported as high quality. Field crop activities were winding down as potato harvest was 90% completed, both buckwheat and sugar beets were being harvested. Carrots, sweet corn harvest continued and truck farmers were still reporting high demand at the farmer's markets. Noble fir Christmas trees continue to be in high demand as we approach the holiday season.

WEST VIRGINIA: Days suitable for fieldwork 5.5. Topsoil 8% very short, 51% short, 41% adequate. Weather conditions were conducive for harvesting crops, planting wheat. Hay 19% very poor, 48% poor, 32% fair, 1% good; Hay 98% 2nd cut; 67% 3rd cut, 90% 1998, 87% avg. Corn 13% very poor, 25% poor, 36% fair, 23% good, 3% excellent; 86% mature, 89% 1998; 43% harvested, 50% 1998, 52% avg. Soybeans 7% very poor, 12% poor, 35% fair, 46% good; 95% dropping leaves, 95 1998, 96% avg.; 23% harvested, 67% 1998, 29% avg. Tobacco 98% harvested, 100% 1998, 100% avg. Apples 71% harvest, 87% 1998. Wheat 24% planted, 52% 1998, 51% avg.; 8% emerged, 22% 1998. Cattle 1% very poor, 12% poor, 59% fair, 25% good, 3% excellent. Sheep 4% poor, 80% fair, 11% good, 5% excellent.

WISCONSIN: Days suitable for fieldwork 6.0. Soil moisture 28% very short to short, 70% adequate, 2% surplus. Soybean harvest progress surged during last week's excellent harvest conditions. Soybean producers reached three-fourths finished last week, nearly one week ahead of the average. Some soybean producers noted superb yields. Soybeans 75% harvested, 61% 1998, 54% avg. Corn harvest took the back seat to soybean harvest, still ahead of average. Many reported corn for grain was harvested at 18 to 21% moisture. Small amount of hay was harvested last week. Early-sowed winter wheat benefitted from the warm temperatures, showers. Fall tillage completed 30% 1999, 25% 1998, 23% avg. Pasture feed 3% very poor, 12% poor, 33% fair, 43% good, 9% excellent.

WYOMING: Days suitable for fieldwork 6.2. Topsoil 2% very short, 35% short, 63% adequate. Temperatures above normal with very light precipitation in a few areas of the State. Snow, cooler over weekend. Dry beans combined 95%, 99% 1998, 98% avg. Corn 16% harvested, 24% 1998, 33% avg.; 15% fair, 57% good, 28% excellent. Sugarbeets 68% harvested, 53% 1998, 58% avg.; 9% fair, 54% good, 37% excellent. Alfalfa 99% 3rd cutting, 88% 1998, 90% avg. Winter wheat 2% fair, 94% good, 4% excellent. Range, pasture feed 1% poor, 14% fair, 77% good, 8% excellent. Livestock 3% fair, 82% good, 15% excellent.

International Weather and Crop Summary

October 10 - 16, 1999

HIGHLIGHTS

FSU-WESTERN: Light to moderate rain fell in chronically dry areas of eastern Ukraine and southern Russia, improving emergence prospects for winter wheat.

FSU-NEW LANDS: Scattered rain and snow showers in extreme eastern areas of Russia hampered final spring grain harvesting, while continued unseasonably warm, dry weather in Kazakstan helped late-season fieldwork.

EUROPE: Showers slowed harvesting in the Iberian peninsula, but increased topsoil moisture for winter grain planting.

EASTERN ASIA: Drier weather favored winter wheat planting in the North China Plain, while showers slowed rice harvesting along the Yangtze Valley.

AUSTRALIA: Much-needed rain benefited reproductive to filling winter grains in South Australia and Victoria.

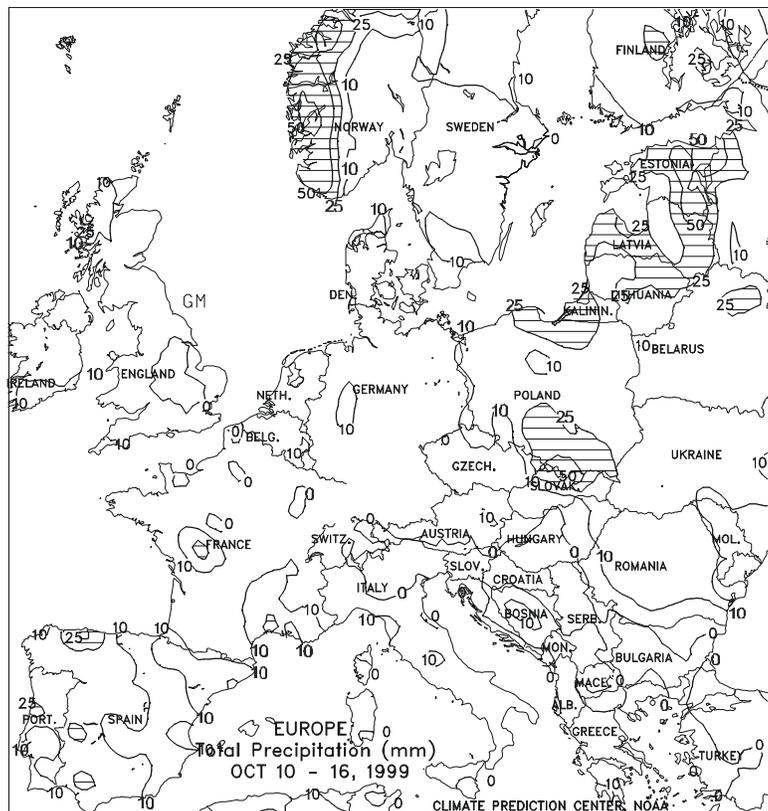
SOUTH ASIA: A tropical cyclone struck India's eastern coast, causing local flooding and possibly damaging rice.

SOUTHEAST ASIA: Heavy showers delayed rice harvesting and caused flooding in Luzon, Philippines and north-central Vietnam.

SOUTH AMERICA: In southern Brazil, wetness in the south and hot, dry weather farther north hampered soybean planting.

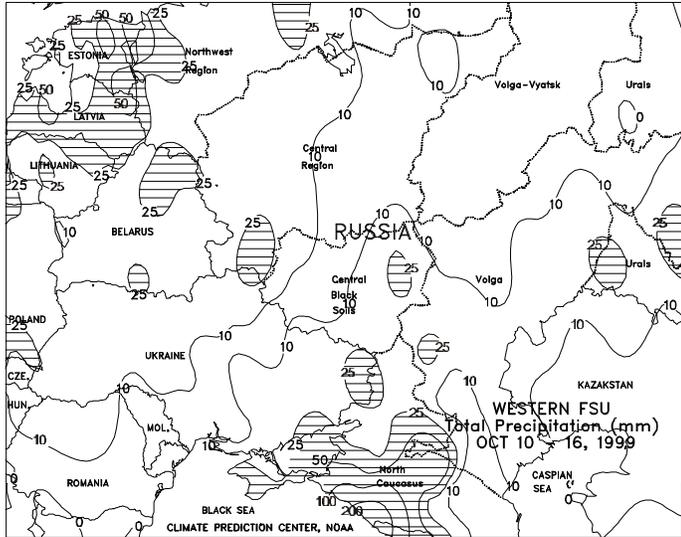
MEXICO AND CUBA: Heavy showers exacerbated flooding in southeastern Mexico. Hurricane Irene brought heavy rain to western Cuba, slowing sugarcane planting.

SOUTH AFRICA: Continued dryness precluded early corn planting.



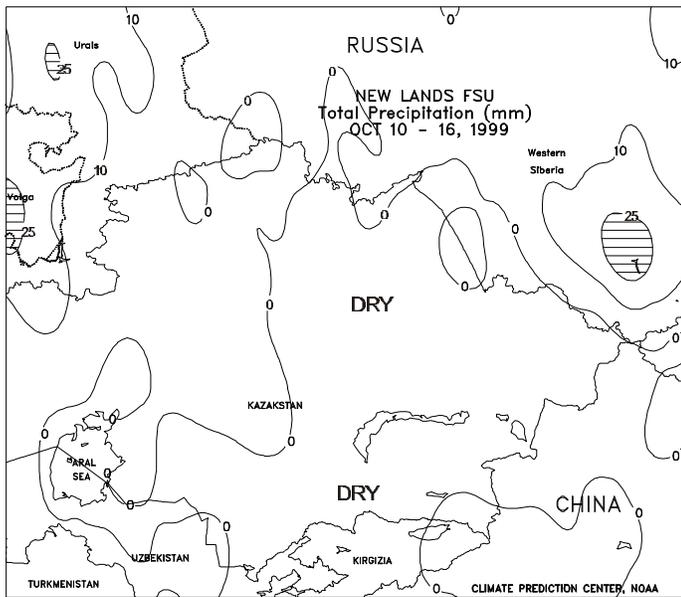
EUROPE

Dry weather in southern England, northern France, Germany, and the Benelux countries aided summer crop harvesting and winter grain planting. Sugar beet harvesting is underway in England, where reportedly 10 percent of the beet crop had been harvested as of October 12. In France, corn and sunflower harvesting rapidly progressed, with sunflower harvesting nearing completion. Farther east, occasional showers (15-35 mm) in Poland and Slovakia boosted topsoil moisture for germinating winter wheat. In contrast, dry weather dominated the remainder of eastern Europe, helping summer crop harvesting. More rain is needed for winter wheat planting and development in Hungary, Romania, Bulgaria, and the southern Balkans, where topsoil moisture continues to decline because of several weeks of dry weather. In Italy, dry weather helped corn, rice, and sunflower harvesting. Farther west, scattered showers (10-40 mm) brought welcomed rains to the drought-stricken Iberian peninsula. Rice and cotton harvesting was slowed in southern Spain. However, the rain increased topsoil moisture for recently planted sugar beets and winter grains that will be planted beginning in late October. Temperatures were near to slightly above normal (1 to 3 degrees C) throughout most of Europe. Unseasonably cool weather (temperatures 1 to 2 degrees C below normal) was confined to southern Sweden, and in a narrow band stretching from central Poland to northern Romania.



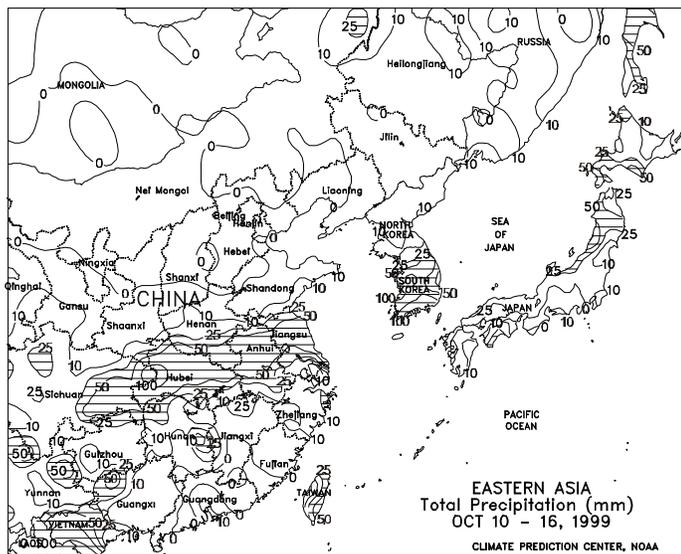
FSU-WESTERN

In Russia, light to moderate rain (10-35 mm, with local amounts in excess of 50 mm) fell in chronically dry areas of southern Russia (North Caucasus and lower Volga Valley), boosting topsoil moisture for winter wheat germination. Although this past week's rain improved emergence prospects, additional rain and seasonable temperatures will be needed during the next several weeks to ensure crops are well established prior to dormancy. The precipitation in southern Russia caused only brief interruptions in summer crop harvesting in the lower Volga and the northern tip of the North Caucasus. Locally heavy rain (50-63 mm) in the western North Caucasus likely halted harvest activities. Reports as of October 11 indicated that corn for grain, sunflower, and sugar beet harvesting in Russia was 24, 47, and 87 percent complete, respectively. Farther north, light showers (2-16 mm) and unseasonably mild weather allowed continued growth in winter grains in northern Russia (Northwest Region, Central Region, Volga Vyatsk, and the upper Volga Valley). In Ukraine, light to moderate showers (10-34 mm) maintained favorable moisture conditions for winter wheat in the west and eased unfavorable dryness in the east. Scattered showers (10-35 mm) and seasonable temperatures in Belarus and the Baltics favored winter grain establishment.



FSU-NEWLANDS

Spring grain harvesting was virtually completed in Russia and Kazakhstan. In Russia, several days of dryness in the Urals and the western half of Western Siberia helped late-spring grain harvesting. Farther east, however, light rain and snow showers (10-25 mm, liquid equivalent) hampered final harvest efforts in Eastern Siberia. In Russia, reports as of October 11 indicated that the harvest of grains and pulses, excluding corn, was 96 percent completed. In Kazakhstan, continued unseasonably warm, dry weather helped late-season fieldwork. Weekly temperatures averaged 7 to 11 degrees C above normal in the western portion of the region and 2 to 5 degrees C in eastern areas. In cotton-producing areas of Central Asia, unseasonably warm, dry weather continued to favor boll maturation and harvesting. (This is the final summary of the season. Coverage will resume in May with the commencement of spring planting.)

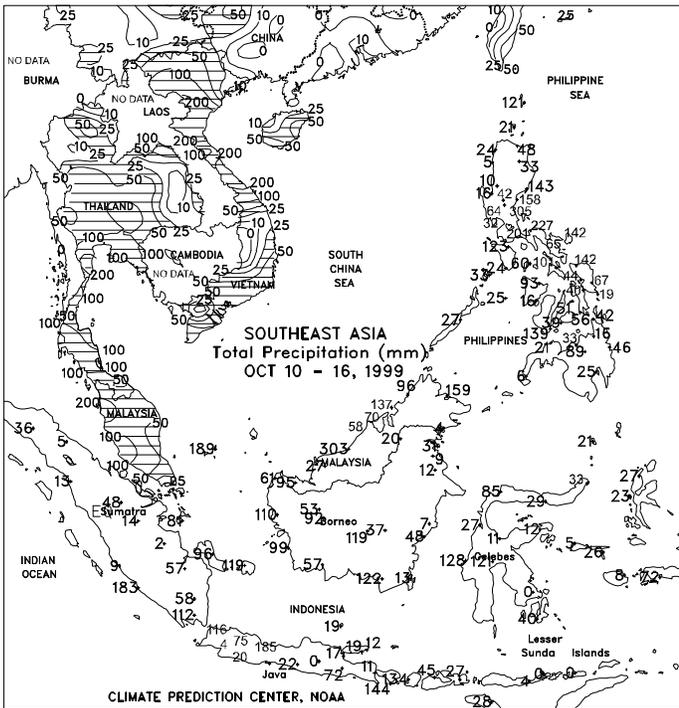
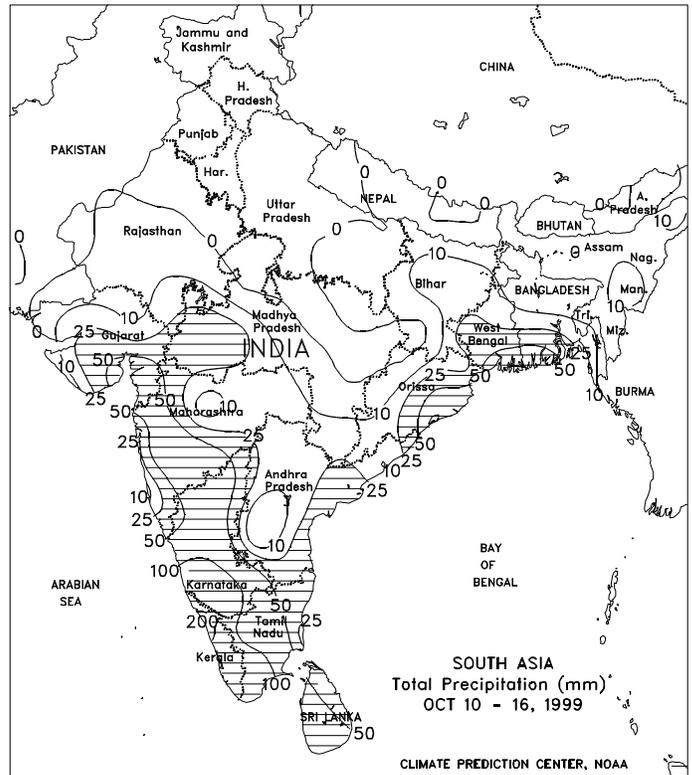


EASTERN ASIA

Drier weather aided winter wheat planting and summer crop harvesting across the North China Plain. Mostly dry weather favored summer crop harvesting across Manchuria. A band of moderate showers (25-75 mm) stretched across the northern part of the Yangtze Valley into eastern Sichuan, slowing single-crop rice harvesting. Mostly dry, warm weather aided late double-crop rice maturation across southern China. Temperatures averaged near normal across Manchuria and the North China Plain and 2 to 4 degrees C above normal across southern China. Early in the week, the remnants of Typhoon Dan brought unseasonably heavy rains (25-125 mm) to South Korea, slowing rice harvesting and causing flooding. Light to moderate rain (10-40 mm) caused only minor rice harvest delays in Japan.

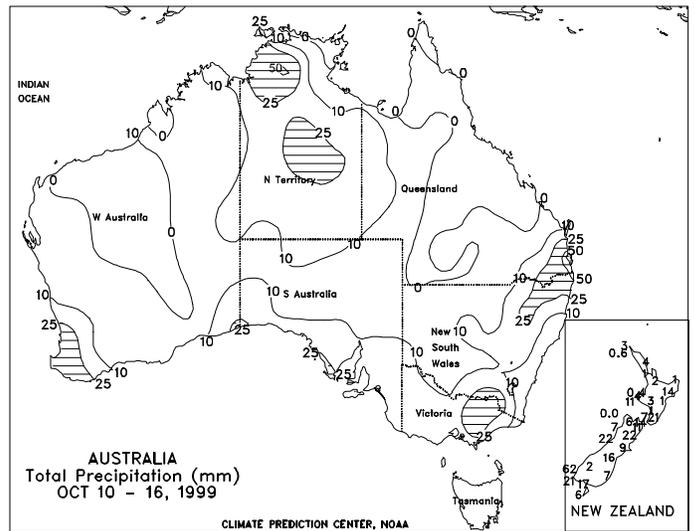
SOUTH ASIA

A tropical cyclone struck India's eastern coast on the morning of the 18th, causing local flooding and possible damage to rice and other summer crops. Preliminary reports indicated that over 100 mm have fallen so far in rainfed rice areas of Orissa, Bihar, and West Bengal. (More detail on total storm rainfall and the potential for flooding and crop damage in the east will be included in next week's summary.) Elsewhere, monsoon activity diminished somewhat over central and southern India. Scattered showers (10-50 mm or more) were confined to a smaller section of west-central and southern India, compared with recent weeks, including important groundnut and soybean areas of Gujarat and western Madhya Pradesh. While coming too late for oilseeds and coarse grains, the moisture favored late-developing cotton and increased moisture levels for rabi (autumn-planted) cropping. Farther south, showers (50 mm or more) were concentrated along the Western Ghats from Maharashtra to Kerala, continuing to benefit immature summer crops. Drier weather over Andhra Pradesh favored crop maturation and seasonal fieldwork. Warm, seasonably dry weather across Pakistan and northern India favored dry down of rice and cotton as well as field preparations for upcoming wheat and oilseed planting.



SOUTHEAST ASIA

Late in the week, a weak tropical depression moved across the central Philippines, producing additional heavy showers (100-300 mm) across eastern Luzon Island. The showers delayed rice harvesting and exacerbated flooding in the region. In north-central Vietnam, heavy showers (200-325 mm) also delayed rice harvesting and caused flooding. However, lighter showers (30-60 mm) prevailed across the Red River Delta rice areas. Moderate showers (40-80 mm) maintained moisture supplies but slowed rice harvesting across southern Vietnam and Thailand. Seasonal showers (25-100 mm) maintained moisture supplies for oil palm across peninsular Malaysia. In Java, Indonesia, widespread showers (20-75 mm) boosted moisture supplies for main-season rice transplanting.



AUSTRALIA

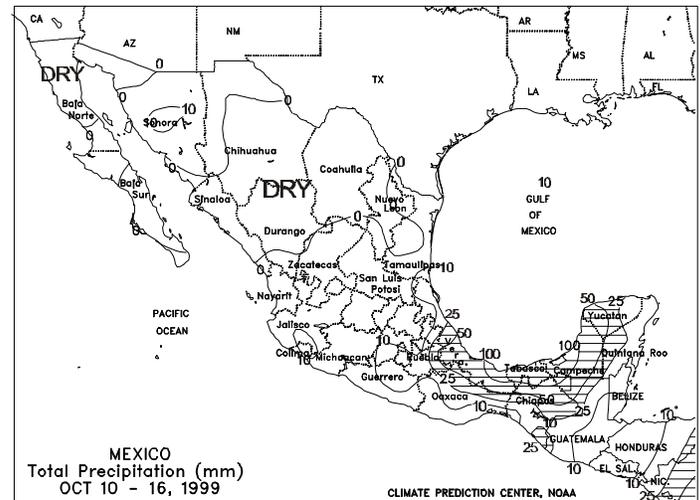
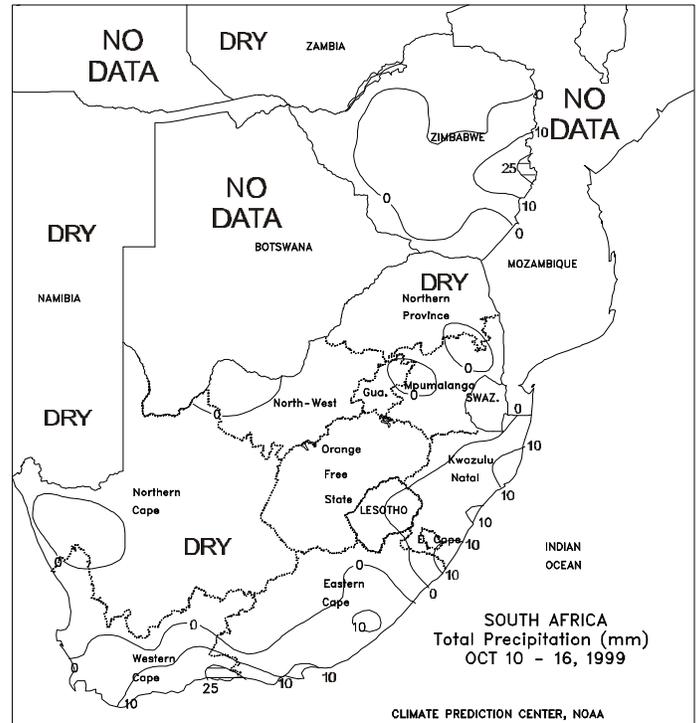
Highly beneficial rain (10-25 mm or more) covered primary winter grain areas of South Australia and Victoria. The rainfall brought relief to reproductive to filling winter wheat and barley, following recent bouts with heat and dryness. Shower activity pushed eastward into New South Wales, maintaining beneficial moisture levels for immature wheat as far north as Darling Downs. Locally heavy rainfall (25-50 mm or more) hampered fieldwork in sugarcane areas of northeastern New South Wales. Mostly dry weather favored fieldwork, including cotton and sorghum planting in southern Queensland. Temperatures across the east averaged 2 to 4 degrees C above normal, enhancing crop growth rates and moisture demands. In Western Australia, cool, showery weather (temperatures averaging near normal to 2 degrees C below normal, rainfall ranging from 1-25 mm) sustained low evapotranspiration rates across the winter grain belt. In New Zealand, light showers (25 mm or less) accompanied seasonably mild weather over the main grain and pasture areas.

SOUTH AFRICA

Warm, dry weather dominated the region. Across the corn belt, rain is needed in most areas for summer crop planting. Near- to above-normal temperatures (highs in the low to middle 30's degrees C) raised topsoil temperatures for germination and hastened maturity of winter wheat. Corn planting typically reaches a peak in mid-November, and is usually completed by early January. In Western Cape, dry, warm weather favored wheat maturation and aided fruit development in orchards and vineyards.

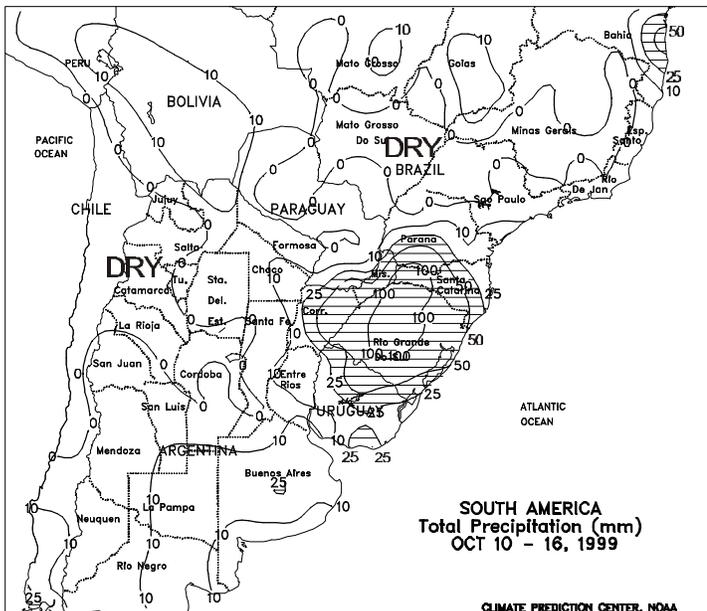
SOUTH AMERICA

In southern Brazil, heavy showers (50-175 mm) slowed soybean planting in northwestern Rio Grande do Sul and western Santa Catarina. Farther north in Mato Grosso do Sul, northern Parana, Sao Paulo, and Minas Gerais, hot, dry weather hampered soybean planting and coffee flowering. During the past 4 weeks, rainfall has averaged 30 to 50 percent of normal across these Brazilian states. In Mato Grosso, only scattered showers (less than 25 mm) prevailed, where rain is also needed for planting. Temperatures averaged 3 to 6 degrees C above normal across south-central Brazil, with maximum temperatures ranging from 35 to 40 degrees C. In central Argentina, light rain (5-20 mm, with isolated amounts greater than 30 mm) favored reproductive winter wheat, but more widespread rain would be beneficial. The rain also benefited corn and sunflowerseed planting. According to reports as of October 8, corn was 33 percent planted, compared with 22 percent last year and sunflowerseed was 12 percent planted, compared with 8 percent last year. Temperatures averaged near normal across central Argentina.



MEXICO AND CUBA

Heavy showers (80-180 mm) exacerbated flooding in southern Mexico (Tabasco and southern Veracruz). Drier weather (less than 30 mm) eased flooding in northern Veracruz and Puebla. Dry weather continued to aid corn maturation and harvesting in the Southern Plateau. Drier weather also eased flooding in Central America. Hurricane Irene swept across western Cuba on October 14 with sustained winds of 65 knots (75 mph). The storm generated heavy rain (estimates of 100-200 mm) across western Cuba, hampering sugarcane planting. Western Cuba produces about 20 to 25 percent of the country's sugarcane.



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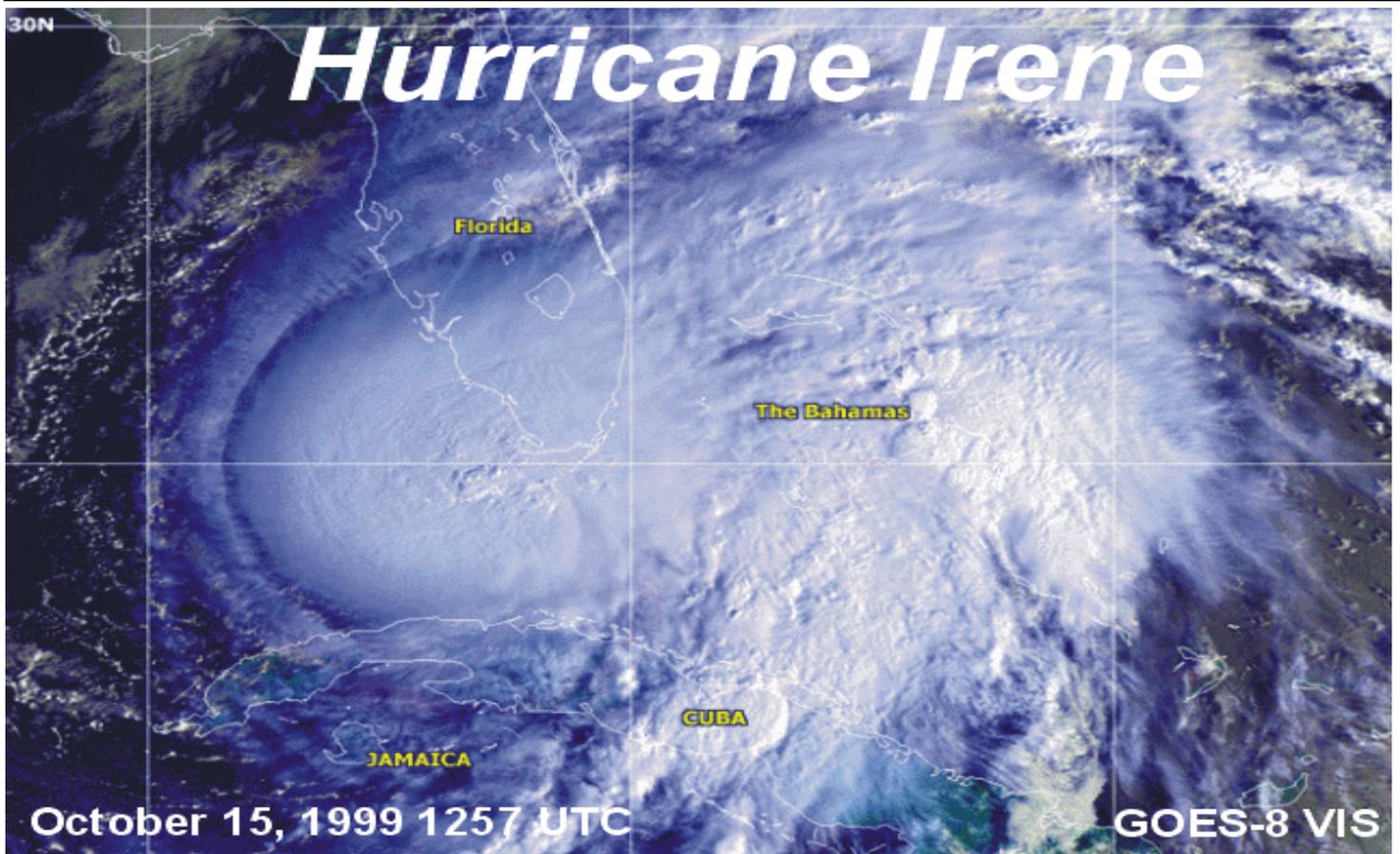
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U.S. DEPARTMENT OF COMMERCE

National Oceanic and Atmospheric Administration
 National Weather Service/Climate Prediction Center
 Managing Editor **David Miskus** (202) 720-7919
 Meteorologists **Eric Luebehusen, Brad Pugh,**
 and **Chester Schmitt**
 Subscriptions **John Kopman** (301) 763-8000 ext 7534
 fax: (301) 763-8125

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