

WEEKLY WEATHER AND CROP BULLETIN

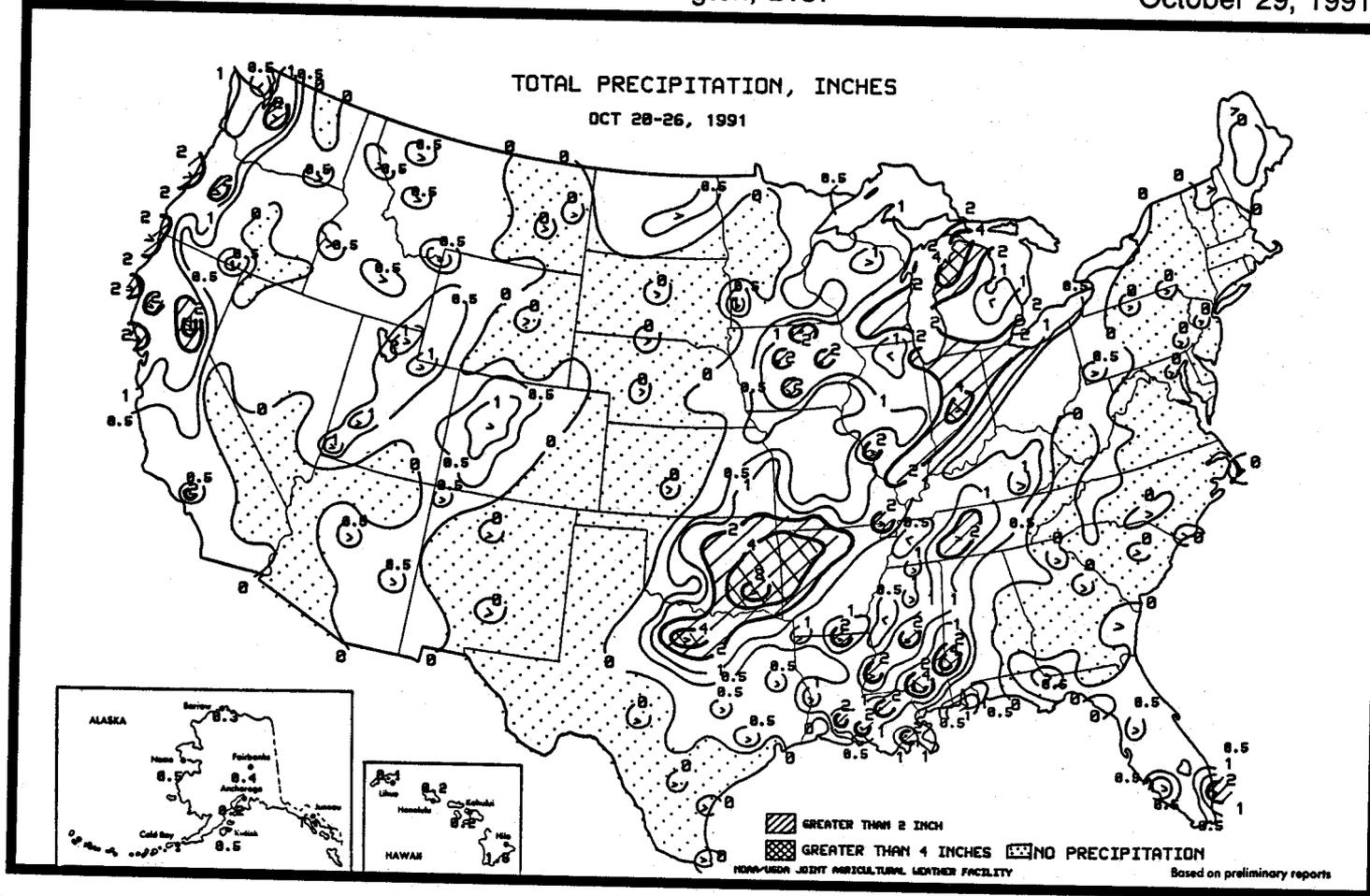
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HIGHLIGHTS

October 20 - 26, 1991

Two major storm systems carved out a cold, moist pattern for the **western United States**, ending their recent warm, dry spell. Meanwhile, temperatures soared in the **East** and heavy rain drenched areas from **northeastern Texas** to the **Great Lakes**. As the week began, an urban wildfire raged through the eastern hills of **Oakland, CA**, razing more than 2700 homes. A final flurry of daily record highs were set in **California** as the first storm bore down on the **Pacific Northwest**. High winds raised dust in the **interior Northwest**, and warm air surged into the **Plains**. Wind gusts were clocked at 52 mph in **Spokane, WA**, and the mercury reached 85° F in **Yankton, SD**. Farther east, a cool airmass stubbornly gave way, but not before contributing to widespread frost in the **Northeast** and a 4-inch snowfall in **northern Minnesota**. By midweek, snow spread out of the **Cascades** and **northern Rockies** into the

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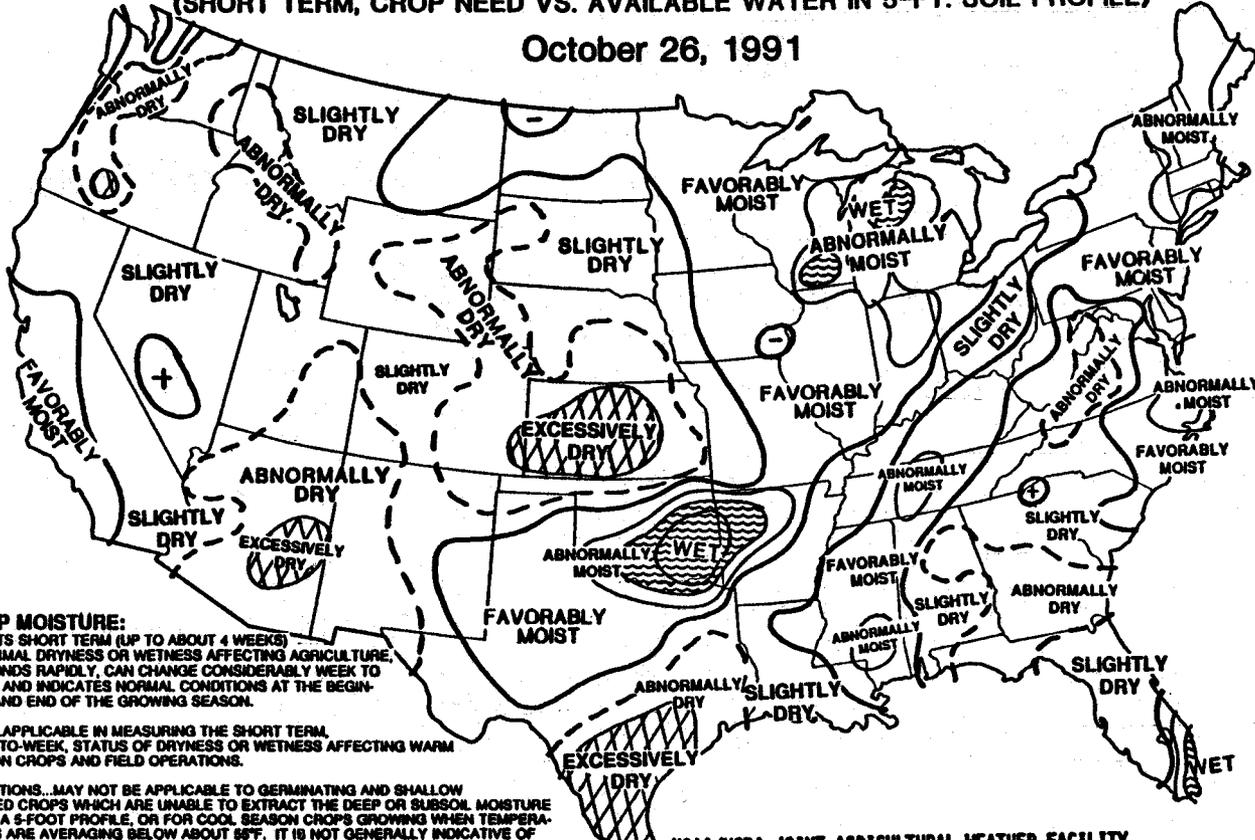
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CROP MOISTURE

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

October 26, 1991



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

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

LIMITATIONS...MAY NOT BE APPLICABLE TO GERMINATING AND SHALLOW ROOTED CROPS WHICH ARE UNABLE TO EXTRACT THE DEEP OR SUBSOIL MOISTURE FROM A 5-FOOT PROFILE, OR FOR COOL SEASON CROPS GROWING WHEN TEMPERATURES ARE AVERAGING BELOW 60°F. IT IS NOT GENERALLY INDICATIVE OF THE LONG TERM (MONTHS, YEARS) DROUGHT OR WET SPELLS WHICH ARE DEPICTED BY THE DROUGHT SEVERITY INDEX.

NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY

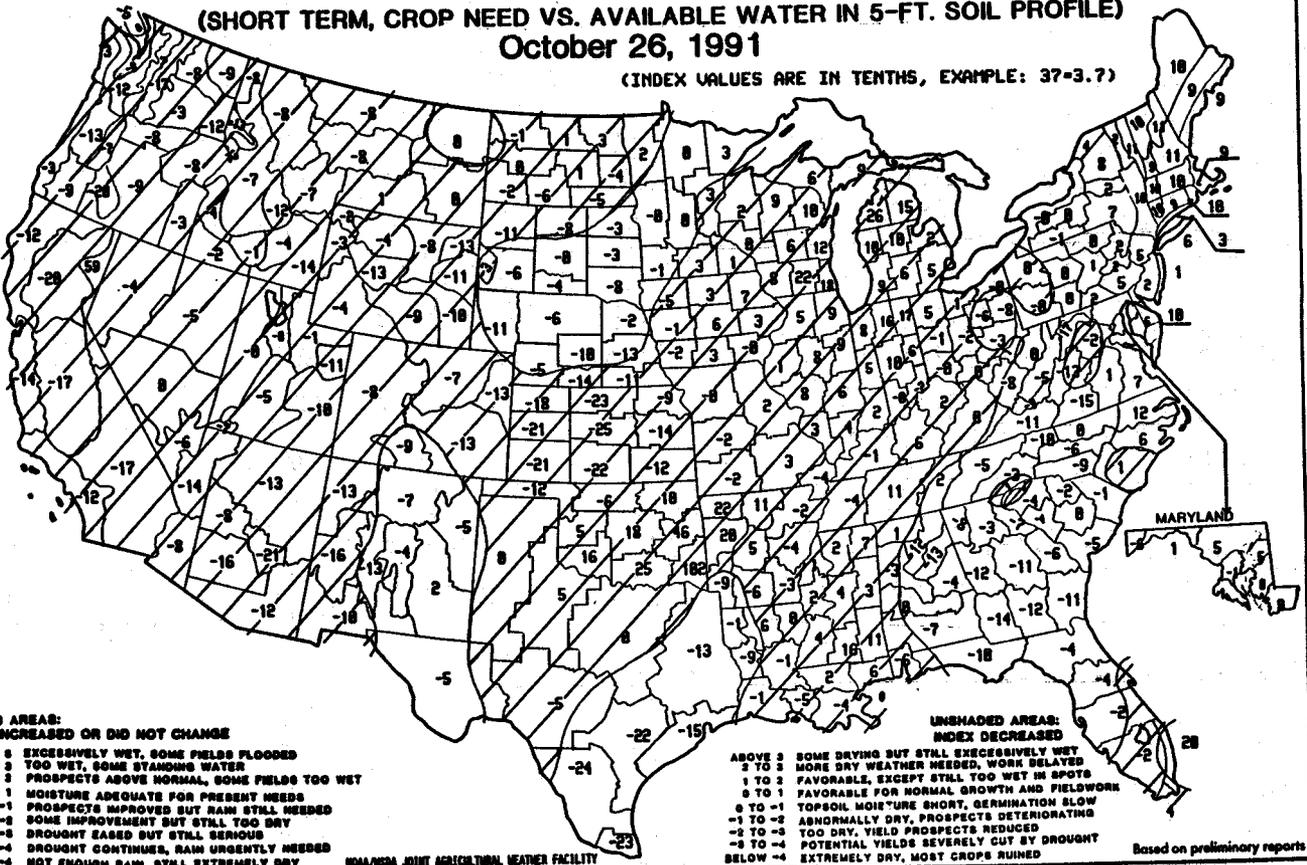
Based on preliminary reports

CROP MOISTURE INDEX

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

October 26, 1991

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



SHADED AREAS: INDEX INCREASED OR DID NOT CHANGE

- ABOVE 6 EXCESSIVELY WET, SOME FIELDS FLOODED
- 3 TO 5 TOO WET, SOME STANDING WATER
- 1 TO 2 PROSPECTS ABOVE NORMAL, SOME FIELDS TOO WET
- 0 TO 1 MOISTURE ADEQUATE FOR PRESENT NEEDS
- 0 TO -1 PROSPECTS IMPROVED BUT RAIN STILL NEEDED
- 1 TO -2 SOME IMPROVEMENT BUT STILL TOO DRY
- 2 TO -3 DROUGHT EASED BUT STILL SERIOUS
- 3 TO -4 DROUGHT CONTINUES, RAIN URGENTLY NEEDED
- BELOW -4 NOT ENOUGH RAIN, STILL EXTREMELY DRY

UNSHADED AREAS: INDEX DECREASED

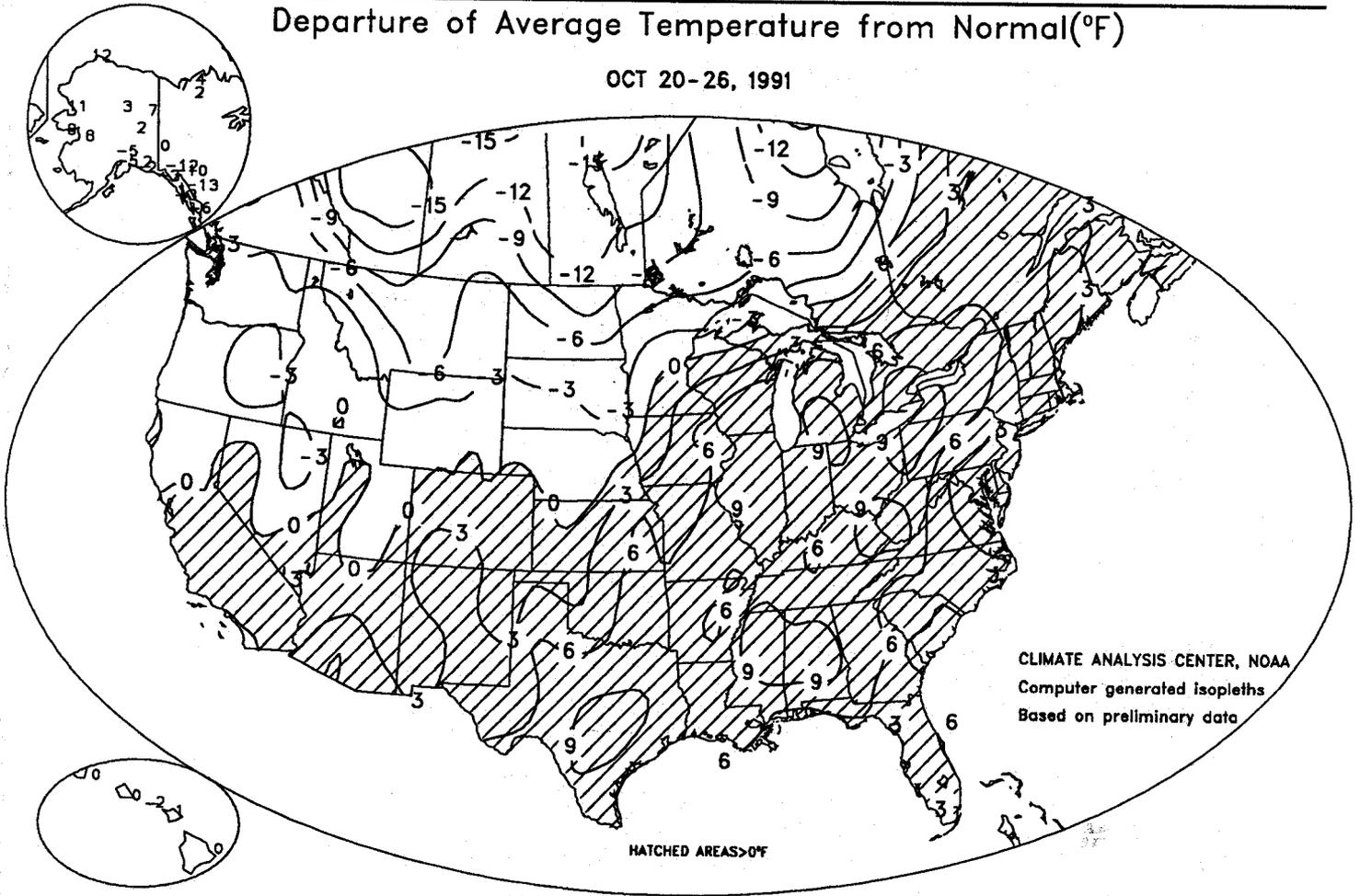
- ABOVE 3 SOME DRYING BUT STILL EXCESSIVELY WET
- 2 TO 3 MORE DRY WEATHER NEEDED, WORK DELAYED
- 1 TO 2 FAVORABLE, EXCEPT STILL TOO WET IN SPOTS
- 0 TO 1 FAVORABLE FOR NORMAL GROWTH AND FIELDWORK
- 0 TO -1 TOPSOIL MOISTURE SHORT, GERMINATION SLOW
- 1 TO -2 ABNORMALLY DRY, PROSPECTS DETERIORATING
- 2 TO -3 TOO DRY, YIELD PROSPECTS REDUCED
- 3 TO -4 POTENTIAL YIELDS SEVERELY CUT BY DROUGHT
- BELOW -4 EXTREMELY DRY, MOST CROPS RUINED

NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY

Based on preliminary reports

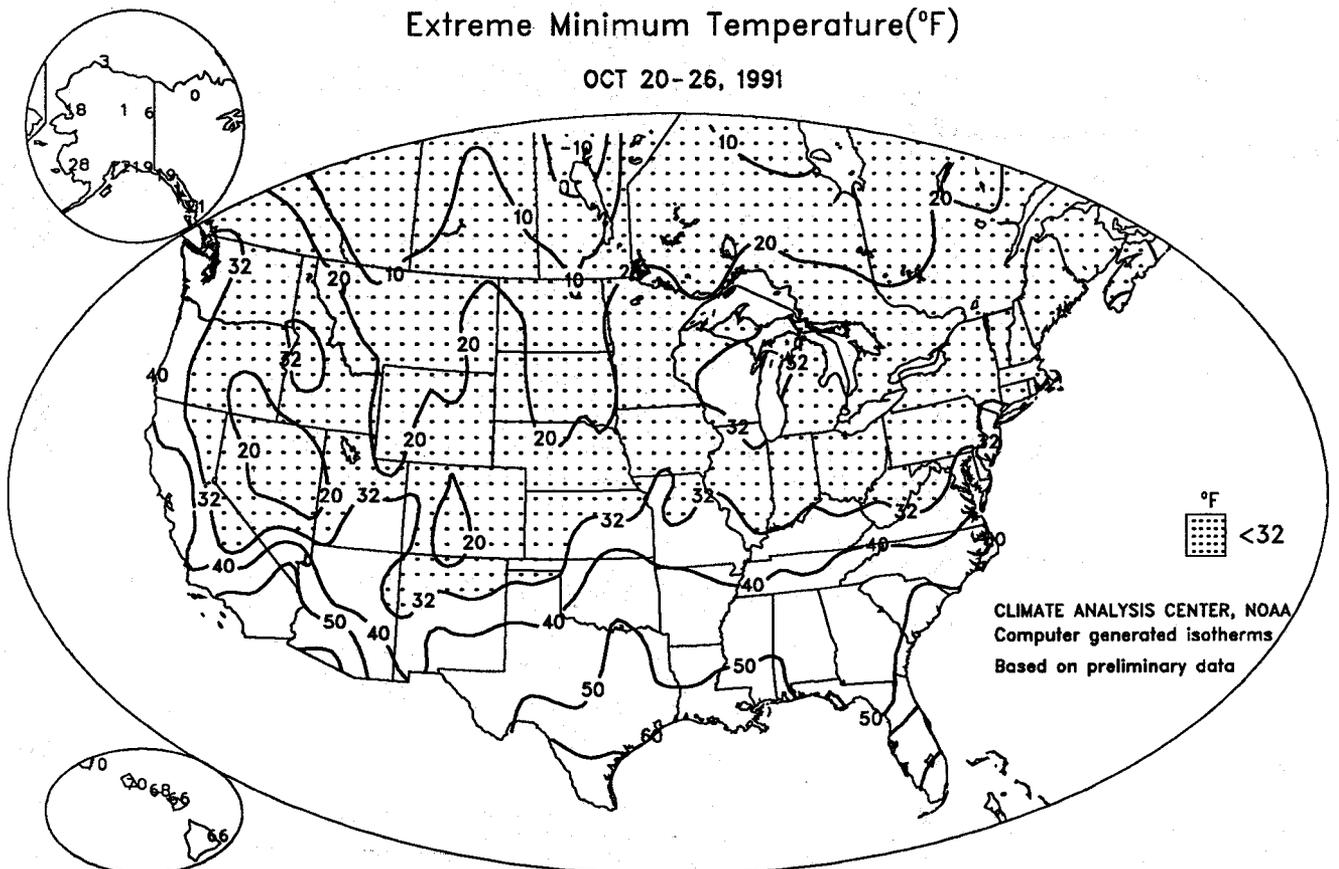
Departure of Average Temperature from Normal(°F)

OCT 20-26, 1991



Extreme Minimum Temperature(°F)

OCT 20-26, 1991



Storms Dampen the U.S. Central Plains

After nearly 40 days of dry weather in Kansas, the first in a series of storms deposited showers on eastern sections on October 25. The second storm, which arrived on October 27, dropped rain across the remainder of Kansas. The current weather pattern remains favorable for the passage of strong, winter-like storm systems that could provide desperately needed moisture for the Hard Red Winter Wheat (HRW) crop.

The prolonged dry spell pushed much of Kansas and the Panhandle of Oklahoma into severe or extreme drought, according to the Palmer Index (*Weekly Weather and Crop Bulletin*, Vol. 78, No. 42, Oct. 22, 1991, p. 3). Long stretches of warm weather kept evaporation rates high, contributing to

moisture depletion. As of October 27, Kansas topsoil moisture deficiencies continued statewide, and HRW growers reported inadequate moisture for germination. But recent and future storminess will chip away at the long-term dryness.

Figure 1 shows cumulative dryness across much of western Kansas and the Panhandle of Oklahoma as of October 26. Much of eastern Kansas received its first significant rainfall in more than a month between October 23 and 25. Farther south, northeastern Texas and eastern Oklahoma have been plagued by excessive rainfall since October 24. An analysis of the most recent storm (October 27 and 28) depicts the wide-spread rainfall coverage over Kansas (fig. 2).

Figure 1

Total Precipitation (Inches)
September 20 - October 26, 1991

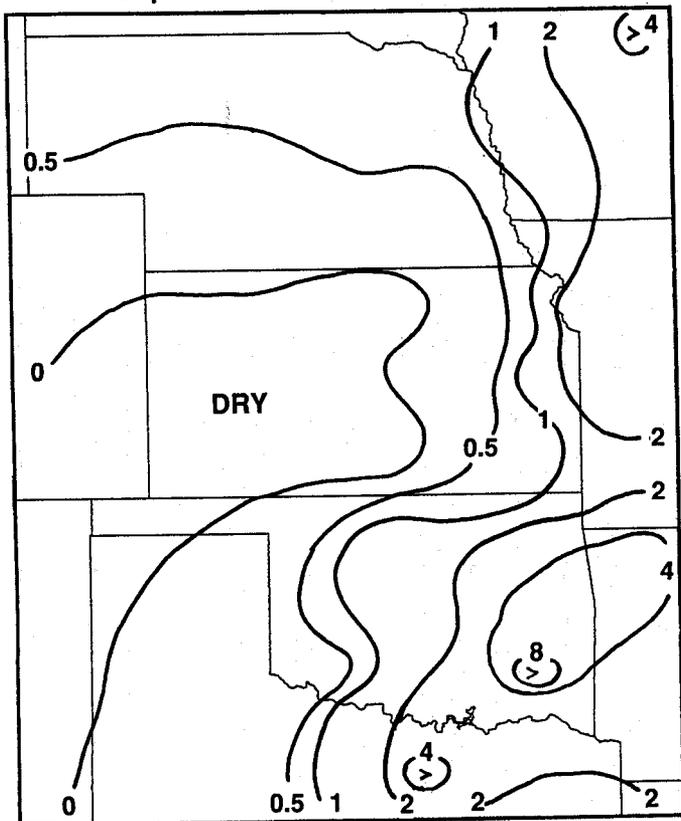
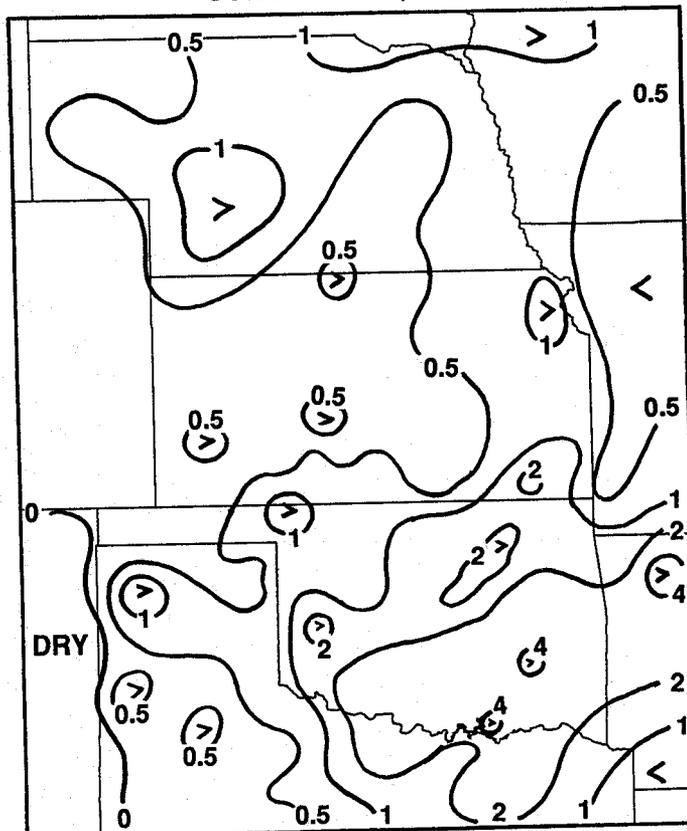


Figure 2

Total Precipitation (Inches)
October 27-28, 1991



Brad Rippey

National Weather Data for Selected Cities

Weather Data for the Week Ending **October 26, 1991**

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS					
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Sept 1	PCT. NORMAL SINCE Sept 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE	MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	TEMP. °F	
																			.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	80	62	83	45	71	11	T	-1.5	T	3.1	48	45.4	100	89	53	0	0	1	0	
MOBILE	81	63	85	50	72	6	T	-1.3	T	2.7	31	72.8	132	98	60	0	0	0	0	
MONTGOMERY	84	59	85	47	72	9	T	-1.4	T	4.6	70	56.3	138	95	48	0	0	0	0	
AK ANCHORAGE	34	19	39	13	26	-5	T	-2.2	T	5.4	137	14.0	112	96	62	0	7	1	0	
BARROW	28	18	32	3	23	13	T	-3.3	T	.7	69	1.7	41	96	84	0	7	4	0	
FAIRBANKS	30	16	36	9	23	3	T	-3.3	T	1.9	108	7.9	89	93	72	0	7	4	0	
JUNEAU	41	27	49	23	34	-6	T	-1.7	T	22.7	176	64.2	153	94	43	0	6	0	0	
KODIAK	47	34	49	31	40	2	T	-1.1	T	13.1	108	68.1	141	87	52	0	3	2	0	
NOME	38	29	41	22	33	8	T	-1.1	T	4.8	140	13.4	104	95	77	0	5	0	0	
AZ PHOENIX	87	67	97	59	77	6	T	-1.2	T	.8	70	4.3	79	56	26	2	0	0	0	
PRESCOTT	68	41	79	34	54	2	T	-1.1	T	1.6	63	11.3	72	75	30	0	0	0	0	
TUCSON	83	58	93	51	71	3	T	-1.1	T	1.6	77	7.9	84	66	25	1	0	0	0	
YUMA	87	67	98	59	77	4	T	-1.1	T	.4	82	2.2	117	53	25	2	0	0	0	
AR FORT SMITH	75	56	85	45	66	6	T	4.5	T	3.7	2.1	9.3	159	33.5	102	95	56	0	0	
LITTLE ROCK	75	59	81	44	67	7	T	.8	T	.2	.8	3.3	50	43.6	109	78	61	0	0	
CA BAKERSFIELD	78	54	92	45	66	0	T	.3	T	.3	.3	.97	97	4.9	116	70	34	2	0	
EUREKA	61	48	69	44	55	1	T	1.1	T	.3	.7	1.1	37	18.8	74	89	69	0	0	
FRESNO	75	53	91	42	64	2	T	.7	T	.6	.7	.7	154	9.2	123	80	35	1	0	
LOS ANGELES	71	61	76	56	66	0	T	.1	T	.0	.1	.2	58	8.2	94	85	60	1	0	
REDDING	71	52	91	37	61	-2	T	1.9	T	1.4	1.7	1.9	75	19.2	69	71	28	1	0	
SACRAMENTO	75	52	94	44	63	2	T	1.3	T	1.0	.8	1.3	143	14.0	121	85	40	2	0	
SAN DIEGO	70	61	72	57	66	-1	T	.5	T	.4	.3	.7	178	11.6	174	87	60	0	0	
SAN FRANCISCO	70	54	89	46	62	2	T	1.7	T	1.4	1.3	1.8	181	13.1	98	87	51	0	0	
CO DENVER	65	34	76	30	49	0	T	.1	T	-1.1	.1	1.1	54	17.1	126	80	28	0	0	
GRAND JUNCTION	65	42	73	38	54	2	T	.7	T	.5	.5	3.0	210	7.1	110	71	35	0	0	
PUEBLO	70	33	82	25	51	1	T	.0	T	-2.0	1.3	.91	10.6	107	59	22	0	0		
CT BRIDGEPORT	62	47	67	34	55	2	T	.8	T	.0	.0	5.2	86	33.2	100	89	61	0	0	
HARTFORD	66	43	71	28	55	4	T	.0	T	.0	.0	8.4	123	39.8	112	96	45	0	0	
DC WASHINGTON	69	50	77	39	60	3	T	.0	T	-1.6	.0	5.5	98	23.7	73	95	54	0	0	
FL APALACHICOLA	81	66	82	52	73	5	T	.0	T	-1.5	.0	2.7	24	88.5	183	93	61	0	0	
DAYTONA BEACH	83	68	84	57	76	4	T	.2	T	-1.7	.2	8.4	79	65.0	151	92	63	0	0	
JACKSONVILLE	83	64	84	52	73	5	T	.1	T	-1.6	.1	12.5	128	78.4	167	98	59	0	0	
KEY WEST	84	75	86	71	79	1	T	3.6	T	2.5	2.1	12.5	119	40.4	120	92	73	0	0	
MIAMI	85	74	87	73	79	2	T	3.7	T	2.2	1.6	32.5	228	69.7	134	94	68	0	0	
ORLANDO	85	69	87	64	77	4	T	.5	T	-1.1	.4	9.3	102	60.4	134	96	58	0	0	
TALLAHASSEE	85	62	87	42	74	8	T	.8	T	-1.6	.8	2.1	23	70.0	125	94	47	0	0	
TAMPA	87	69	89	62	78	5	T	.3	T	-1.4	.3	4.2	51	41.3	98	96	51	0	0	
WEST PALM BEACH	85	76	86	72	81	4	T	.2	T	-1.4	.1	12.9	80	72.0	136	88	65	0	0	
GA ATLANTA	76	58	81	50	67	8	T	.0	T	-1.6	.0	2.4	47	50.0	124	94	55	0	0	
AUGUSTA	80	54	85	44	67	6	T	.0	T	-1.4	.0	1.9	37	52.5	141	99	50	0	0	
MACON	81	59	85	47	70	7	T	.0	T	-1.4	.0	2.0	20	47.9	126	97	51	0	0	
SAVANNAH	80	62	84	52	71	7	T	.2	T	-2.2	.2	1.9	27	65.4	146	95	59	0	0	
HI HILO	84	68	84	66	76	0	T	1.5	T	-1.1	.5	12.4	85	128.8	131	98	65	0	0	
HONOLULU	86	73	87	70	80	1	T	.2	T	-1.3	.2	4.1	200	15.3	94	83	53	0	0	
KAHULUI	86	71	88	66	79	1	T	.2	T	-1.1	.1	1.3	146	10.6	81	90	55	0	0	
LIHUE	82	73	83	70	78	1	T	-1.1	T	-1.1	.1	3.8	65	27.9	87	86	66	0	0	
ID BOISE	58	38	76	33	48	-1	T	.9	T	-1.1	.1	1.1	93	7.3	84	78	40	0	0	
LEWISTON	56	39	68	37	47	-2	T	.2	T	-1.1	.1	.3	20	8.9	87	76	39	0	0	
POCATELLO	55	32	69	23	43	-2	T	.5	T	-1.3	.4	1.2	84	11.6	134	85	34	0	0	
IL CHICAGO	67	47	77	29	57	6	T	2.5	T	1.1	1.1	8.8	151	29.1	99	85	56	0	0	
MOLINE	67	50	79	27	59	8	T	1.9	T	1.4	1.5	7.5	124	26.7	82	87	56	0	0	
PEORIA	69	49	77	29	59	8	T	1.3	T	.8	.5	9.8	168	29.4	96	95	62	0	0	
QUINCY	69	51	78	32	60	7	T	1.0	T	-1.3	.7	9.1	130	31.7	95	85	53	0	0	
ROCKFORD	66	47	78	29	57	8	T	.5	T	-1.1	.3	8.1	132	25.1	79	89	59	0	0	
SPRINGFIELD	69	52	77	27	61	8	T	.7	T	-1.3	.3	9.1	168	31.6	107	92	65	0	0	
IN EVANSVILLE	73	51	81	31	62	8	T	.3	T	-1.3	.1	4.1	87	23.8	69	94	52	0	0	
FORT WAYNE	68	48	75	26	58	8	T	4.0	T	2.3	2.3	9.5	203	37.9	131	92	56	0	0	
INDIANAPOLIS	71	49	78	29	60	8	T	4.1	T	3.5	2.4	6.5	135	32.0	98	92	55	0	0	
SOUTH BEND	68	49	75	28	58	8	T	2.5	T	1.8	1.6	9.9	167	30.4	96	87	56	0	0	
IA DES MOINES	68	45	80	31	56	5	T	1.8	T	1.3	1.0	4.1	83	32.2	116	82	54	0	0	
STOUC CITY	61	36	82	23	48	-1	T	.1	T	-1.3	.1	3.0	75	21.5	91	79	44	0	0	
WATERLOO	65	44	78	29	54	7	T	1.1	T	-1.6	.7	5.9	108	35.9	121	87	57	0	0	
KS CONCORDIA	70	43	87	31	56	3	T	.0	T	-1.4	.0	.2	5	15.3	61	70	30	0	0	
DODGE CITY	72	40	87	31	56	2	T	.0	T	-1.3	.7	.2	7	7.3	38	67	26	0	0	
GOODLAND	67	34	82	25	50	1	T	.0	T	-1.2	.0	.8	35	19.9	132	77	30	0	0	
TOPEKA	74	48	88	29	61	6	T	.2	T	-1.4	.1	2.6	45	21.8	73	87	45	0	0	
WICHITA	72	49	89	37	61	4	T	.2	T	-1.5	.7	2.1	38	21.3	82	82	44	0	0	
KY BOWLING GREEN	73	49	81	34	61	6	T	1.2	T	.5	.9	5.2	94	36.5	91	98	63	0	0	
LEXINGTON	71	51	79	33	61	7	T	.2	T	-1.3	.1	4.1	79	32.6	85	88	51	0	0	
LOUISVILLE	73	53	81	34	63	8	T	.2	T	-1.4	.1	3.9	70	29.9	83	89	48	0	0	
LA ALEXANDRIA	83	62	87	49	73	8	T	.6	T	-1.1	.4	2.7	49	61.7	144	94	51	0	0	
BATON ROUGE	85	63	87	53	74	8	T	2.2	T	1.7	1.3	8.6	129	65.7	142	95	55	0	0	
LAKE CHARLES	85	63	87	53	74	7	T	.0	T	-1.8	.7	3.7	41	61.6	139	99	53	0	0	
NEW ORLEANS	84	63	88	50	74	7	T	.5	T	.0	.3	4.0	49	96.2	193	98	58	0	0	

Based on 1951-80 normals

Weather Data for the Week Ending October 26, 1991

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT	NUMBER OF DAYS								
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Sept 1	PCT. NORMAL SINCE Sept 1	TOTAL, IN., SINCE Jan 1		PCT. NORMAL SINCE Jan 1	AVERAGE	MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	92 AND BELOW	.01 INCH OR MORE		.50 INCH OR MORE
													90 AND ABOVE							92 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
SHREVEPORT	81	59	85	48	70	6	.2	-.4	.2	3.7	67	67.2	189	96	53	0	0	0	0	0	0	0
ME CARIBOU	51	36	64	22	43	3	.3	-.4	.2	7.4	122	31.1	105	91	65	0	4	1	2	0	0	0
PORTLAND	58	38	68	25	48	2	.1	-.9	.0	8.0	126	48.5	145	96	58	0	2	2	0	0	0	0
MD BALTIMORE	67	44	73	31	55	1	.0	-.7	.0	6.2	102	24.4	70	96	56	0	1	0	0	0	0	0
SALISBURY	71	43	77	31	57	2	.0	-.8	.0	7.1	100	39.5	104	99	53	0	1	0	0	0	0	0
MA BOSTON	63	47	75	36	55	3	T	-.8	T	8.9	144	33.9	99	88	50	0	0	0	0	0	0	0
CHATHAM	59	47	64	36	53	1	.0	-.9	.0	6.5	96	28.8	78	91	73	0	0	0	0	0	0	0
MI ALPENA	61	41	77	28	51	6	2.2	1.8	.9	7.0	144	29.0	119	94	65	0	1	0	5	0	2	0
DETROIT	67	49	77	26	58	9	1.9	1.5	1.1	4.3	108	24.4	96	89	57	0	1	3	2	2	2	0
FLINT	67	49	77	24	58	10	1.0	.5	.7	3.8	94	26.2	108	84	53	0	1	2	1	1	1	0
GRAND RAPIDS	67	48	77	27	58	9	1.3	.7	.8	7.4	136	34.8	126	86	58	0	1	3	1	3	1	0
HOUGHTON LAKE	60	43	74	28	52	7	2.4	1.9	1.8	10.5	223	31.4	134	89	63	0	1	3	2	2	2	0
LANSING	67	48	77	22	58	10	1.1	.7	.6	4.6	101	25.4	103	87	56	0	1	2	1	1	1	0
MARQUETTE	49	33	61	28	41	0	1.2	.5	.6	6.7	101	28.6	91	94	74	0	3	4	1	1	1	0
MUSKEGON	65	50	74	29	57	9	1.5	.9	.9	9.2	175	33.8	133	87	60	0	1	3	1	1	1	0
SAULT ST. MARIE	54	39	70	31	47	4	1.3	.7	.5	9.6	153	27.0	100	93	77	0	1	6	0	0	0	0
MN ALEXANDRIA	51	33	71	30	42	-1	.0	-.4	.0	4.4	112	26.2	117	83	48	0	4	0	0	0	0	0
DULUTH	43	32	51	25	38	-4	.4	.0	.2	10.7	208	36.3	139	93	65	0	3	3	0	0	0	0
INT'L FALLS	38	30	43	22	34	-6	.2	-.1	.2	5.9	126	24.6	113	89	66	0	5	2	1	2	1	0
MINNEAPOLIS	57	40	76	31	49	2	1.0	.6	.5	6.7	165	29.1	122	86	49	0	1	2	0	0	0	0
ROCHESTER	59	38	73	26	49	3	.2	-.3	.2	3.1	58	28.4	110	89	61	0	2	2	0	0	0	0
MS GREENWOOD	82	61	85	48	72	10	.4	-.2	1.2	4.1	74	53.7	126	94	53	0	0	0	0	0	0	0
JACKSON	83	59	86	48	71	8	1.5	1.0	1.2	5.2	95	54.2	129	100	56	0	0	0	0	0	0	0
MERIDIAN	82	60	84	50	71	10	.9	.4	.4	7.0	122	61.5	141	95	52	0	0	0	0	0	0	0
MO CAPE GIRARDEAU	75	54	80	35	64	-1	1.1	.5	.7	4.5	78	32.6	89	92	48	0	0	0	0	0	0	0
COLUMBIA	73	51	82	32	62	8	T	-.7	T	5.0	75	26.9	84	84	48	0	0	0	0	0	0	0
KANSAS CITY	72	47	86	31	60	4	.3	-.4	.3	4.6	64	23.4	72	85	44	0	1	1	1	1	1	0
SAINT LOUIS	74	56	81	37	65	10	2.1	1.6	1.3	7.3	156	26.7	93	84	53	0	0	0	0	0	0	0
SPRINGFIELD	73	54	83	39	63	8	.3	-.4	.3	4.8	68	27.8	83	84	53	0	0	0	0	0	0	0
MT BILLINGS	52	28	72	22	40	-7	.3	.0	.2	3.6	162	18.7	143	81	45	0	5	2	0	0	0	0
GLASGOW	52	29	73	22	41	-7	T	-.1	T	.7	50	10.4	102	82	35	0	5	0	0	0	0	0
GREAT FALLS	47	25	69	12	36	-9	.5	.3	.4	1.7	100	13.1	98	77	39	0	5	3	0	0	0	0
HAVRE	47	25	69	18	36	-7	.1	.0	.1	.4	27	8.9	83	81	46	0	5	1	2	0	0	0
HELENA	51	28	72	18	39	-3	.5	.3	.4	1.7	125	10.1	99	79	39	0	5	0	0	0	0	0
KALISPELL	45	28	60	19	37	-3	.4	-.1	.1	1.1	56	11.9	93	87	55	0	5	4	0	0	0	0
MILES CITY	54	29	74	22	41	-4	.3	-.1	.2	4.1	218	19.3	151	86	47	0	3	2	0	0	0	0
MISSOULA	52	32	70	20	42	1	.1	-.1	.1	.4	25	8.9	81	81	38	0	3	2	0	0	0	0
NE GRAND ISLAND	64	35	87	21	50	0	T	-.2	T	1.0	29	24.7	115	78	32	0	4	1	0	0	0	0
LINCOLN	66	41	83	27	54	3	.1	-.3	.1	1.3	28	19.4	77	75	42	0	2	1	0	0	0	0
NORFOLK	62	33	85	20	48	-1	T	-.3	T	2.4	74	25.0	113	83	38	0	4	0	0	0	0	0
NORTH PLATTE	64	28	84	22	46	-1	T	-.2	T	2.2	90	17.2	95	94	31	0	6	1	0	0	0	0
OMAHA	63	42	81	28	53	1	.4	.0	.4	3.1	58	31.8	114	74	53	0	1	3	0	0	0	0
SCOTTSBLUFF	65	29	79	25	47	0	T	-.1	T	1.4	81	12.9	96	81	23	0	6	1	0	0	0	0
VALENTINE	63	26	77	17	45	-2	.1	-.1	.1	1.2	54	19.7	121	81	26	0	6	1	0	0	0	0
NV ELY	58	26	67	12	42	-1	.4	.3	.4	1.7	142	8.7	115	71	31	0	6	1	0	0	0	0
LAS VEGAS	78	58	83	50	68	4	T	-.1	T	.1	12	3.4	105	43	20	0	0	0	0	0	0	0
RENO	62	39	80	29	50	3	.2	.2	.2	.8	169	4.1	77	64	29	0	1	1	0	0	0	0
WINNEMUCCA	60	34	74	13	47	1	.4	.2	.3	1.2	143	6.1	102	71	32	0	2	2	0	0	0	0
NH CONCORD	65	35	77	20	50	4	.0	-.7	.0	8.7	152	30.9	106	97	43	0	3	0	0	0	0	0
NJ ATLANTIC CITY	68	41	73	29	54	1	.0	-.7	.0	4.0	75	29.9	88	98	55	0	2	0	0	0	0	0
NM ALBUQUERQUE	72	45	78	38	59	4	.0	-.2	.0	1.4	93	7.9	115	64	23	0	0	0	0	0	0	0
CLOVIS	74	43	80	40	59	3	.0	-.4	.0	3.5	101	19.8	125	80	27	0	0	0	0	0	0	0
ROSWELL	78	46	82	40	62	5	.0	-.2	.0	4.1	152	17.5	180	73	28	0	0	0	0	0	0	0
NY ALBANY	66	41	74	28	53	5	.0	-.7	.0	7.1	125	28.0	96	95	43	0	2	0	0	0	0	0
BINGHAMTON	63	45	73	33	54	8	T	-.7	T	4.0	68	25.9	86	82	49	0	0	0	0	0	0	0
BUFFALO	68	50	77	31	59	10	.1	-.6	.1	6.2	108	32.3	108	85	46	0	1	1	0	0	0	0
NEW YORK	67	52	72	43	59	4	.0	-.7	.0	4.8	78	33.0	95	87	53	0	0	0	0	0	0	0
ROCHESTER	68	49	77	31	59	9	T	-.6	T	4.5	93	23.9	93	85	45	0	1	0	0	0	0	0
SYRACUSE	67	47	77	32	57	8	.0	-.7	.0	6.7	114	31.1	98	87	48	0	1	0	0	0	0	0
NC ASHEVILLE	71	49	74	40	60	6	T	-.7	T	1.4	22	35.4	96	95	49	0	0	0	0	0	0	0
CHARLOTTE	76	55	82	49	66	7	.0	-.6	.0	2.2	38	39.4	109	88	46	0	0	0	0	0	0	0
GREENSBORO	73	50	80	39	62	6	.0	-.7	.0	5.6	88	37.3	104	93	49	0	0	0	0	0	0	0
HATTERAS	74	60	79	55	67	4	.1	-1.0	.1	9.2	94	58.8	129	94	64	0	0	1	0	0	0	0
NEW BERN	77	55	81	48	66	5	.0	-.7	.0	8.2	94	45.1	98	96	51	0	0	0	0	0	0	0
RALEIGH	74	50	82	42	62	5	.0	-.6	.0	4.6	82	32.1	91	96	49	0	0	0	0	0	0	0
WILMINGTON	77	56	81	48	67	4	.0	-.6	.0	4.2	51	52.3	113	97	57	0	0	0	0	0	0	0
ND BISMARCK	51	25	68	13	38	-5	.5	.4	.5	3.0	147	14.1	100	90	47	0	6	1	1	1	1	0
FARGO	48	29	65	24	38	-5	T	-.3	T	1.3	45	19.4	109	81	52	0	4	0	0	0	0	0
GRAND FORKS	40	27	57	21	34	-8	.4	-.2	.2	4.1	135	19.4	116	92	64	0	6	2	0	0	0	0
WILLISTON	48	28	71	22	38	-4	.2	.0	.2	2.9	148	16.8	135	87	53	0	5	2	0	0	0	0
OH AKRON-CANTON	70	48	78	29	59	9	T	-.5	T	3.9	80	18.7	62	85	44	0	1	1	0	0	0	0
CINCINNATI	70	52	77	32	61	8	.1	-.4	.1	3.7	73	32.8	98	87	49	0	1	2	0	0	0	0
CLEVELAND	70	50	78	31	60	9	.3	-.3														

Weather Data for the Week Ending October 26, 1991

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION								RELATIVE HUMIDITY, PERCENT	NUMBER OF DAYS						
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Sept 1	PCT. NORMAL SINCE Sept 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE		MAXIMUM	MINIMUM	90 AND ABOVE	32 AND BELOW	TEMP. °F		PRECIP.
															.01 INCH OR MORE					.50 INCH OR MORE	.01 INCH OR MORE	.50 INCH OR MORE
DAYTON	70	48	77	28	59	8	.4	-.1	.3	4.8	119	31.4	108	92	48	0	0	0	2	2	2	2
TOLEDO	69	48	77	26	58	9	2.7	2.3	1.8	4.4	106	21.7	83	95	59	0	0	0	2	2	2	2
YOUNGSTOWN	71	47	80	27	59	10	T	-.5	T	4.1	78	21.3	68	88	40	0	0	0	2	2	2	2
OK OKLAHOMA CITY	76	54	85	48	65	6	1.5	1.0	1.1	13.4	230	33.4	120	88	48	0	0	0	2	2	2	2
TULSA	76	57	86	49	67	7	2.5	1.8	1.6	8.7	119	24.4	72	85	55	0	0	0	2	2	2	2
OR ASTORIA	54	42	63	34	48	-3	1.9	.3	.8	2.1	26	39.8	85	97	69	0	0	0	0	0	0	0
BURNS	53	26	71	19	40	-5	.2	.0	.2	.2	18	4.6	63	91	45	0	0	0	5	5	1	1
MEDFORD	62	40	79	37	51	0	.3	-.2	.2	.3	14	10.9	84	96	50	0	0	0	0	0	0	0
PENDLETON	57	39	72	37	48	-2	.5	.2	.1	.5	34	9.7	111	80	45	0	0	0	0	0	0	0
PORTLAND	57	44	73	39	51	-1	1.2	.4	.4	1.3	33	22.7	91	94	64	0	0	0	0	0	0	0
SALEM	58	44	73	40	51	0	1.4	.6	.5	1.5	35	23.5	88	94	65	0	0	0	0	0	0	0
PA ALLENTOWN	66	40	74	29	53	2	.0	-.7	.0	5.9	91	28.4	79	97	51	0	0	0	3	3	4	4
ERIE	71	53	79	40	62	12	.5	-.3	.4	6.1	88	25.2	78	80	42	0	0	0	0	0	0	0
HARRISBURG	64	45	72	31	55	2	.0	.0	.0	4.6	78	26.3	82	95	58	0	0	0	1	1	0	0
PHILADELPHIA	68	46	75	38	57	3	.0	-.6	.0	5.2	90	30.8	91	95	55	0	0	0	0	0	0	0
PITTSBURGH	73	46	82	30	59	9	.1	-.5	.1	4.0	83	26.4	83	95	38	0	0	0	2	2	1	1
SCRANTON	66	42	74	30	54	5	.0	-.6	.0	5.0	89	23.7	82	91	44	0	0	0	2	2	1	1
RI PROVIDENCE	66	45	76	31	55	4	T	-.9	T	7.0	106	37.2	104	94	48	0	0	0	1	1	0	0
SC CHARLESTON	80	61	84	54	70	7	.0	-.6	.0	3.1	41	46.4	101	97	59	0	0	0	0	0	0	0
COLUMBIA	80	54	85	49	67	6	.0	-.5	.0	3.0	46	58.4	137	100	51	0	0	0	0	0	0	0
FLORENCE	79	57	85	51	68	7	.0	-.5	.0	3.0	49	39.6	103	93	50	0	0	0	0	0	0	0
GREENVILLE	75	52	81	45	63	5	.1	-.6	.1	1.7	22	43.0	99	94	50	0	0	0	0	0	0	0
SD ABERDEEN	56	26	75	12	41	-3	.0	-.2	.0	.6	26	21.6	132	82	37	0	0	0	5	5	1	1
HURON	57	28	76	15	43	-3	T	-.3	T	2.1	82	21.7	127	85	40	0	0	0	0	0	0	0
RAPID CITY	60	30	75	23	45	-4	T	-.2	T	1.2	72	16.2	108	74	26	0	0	0	4	4	0	0
SIOUX FALLS	58	31	82	18	44	-2	T	-.3	T	4.1	99	24.0	108	86	46	0	0	0	0	0	0	0
TN CHATTANOOGA	76	54	80	45	65	8	T	-.6	T	2.6	38	43.1	101	97	52	0	0	0	4	4	1	1
KNOXVILLE	77	51	83	45	64	7	T	-.6	T	4.2	82	42.8	112	94	49	0	0	0	0	0	0	0
MEMPHIS	79	60	84	43	69	9	.9	-.4	.9	3.6	66	46.3	111	88	49	0	0	0	0	0	1	1
NASHVILLE	74	54	80	39	64	7	2.2	1.7	1.3	8.3	143	35.2	89	95	56	0	0	0	0	0	2	2
TX ABILENE	82	60	87	44	71	8	.4	-.1	.2	6.4	125	24.6	118	86	43	0	0	0	0	0	2	2
AMARILLO	74	45	84	32	60	4	.0	-.3	.0	2.1	70	12.4	70	77	28	0	0	0	1	1	0	0
AUSTIN	87	67	91	54	77	10	T	-.7	T	3.4	53	35.3	133	90	45	2	0	0	0	0	2	2
BEAUMONT	85	66	89	56	76	8	T	-.8	T	7.2	84	62.3	137	98	56	0	0	0	0	0	1	1
BROWNSVILLE	88	71	89	64	80	6	T	-.7	T	8.9	106	29.3	132	95	57	0	0	0	0	0	1	1
CORPUS CHRISTI	87	71	89	65	79	7	T	-.4	T	8.6	95	36.4	130	95	59	0	0	0	0	0	1	1
DEL RIO	85	67	89	58	76	8	T	-.4	T	7.1	151	17.4	112	75	43	0	0	0	0	0	1	1
EL PASO	79	50	83	42	65	3	T	-.1	T	1.8	91	8.2	120	68	25	0	0	0	0	0	0	0
FORT WORTH	81	62	89	50	72	7	1.5	-.9	1.5	6.1	102	35.9	134	90	54	0	0	0	0	0	1	1
GALVESTON	81	72	84	67	77	6	.0	-.5	.0	5.5	66	50.5	151	95	65	0	0	0	0	0	0	0
HOUSTON	87	64	91	53	76	7	.2	-.6	.2	3.0	36	44.4	116	99	48	2	0	0	0	0	1	1
LUBBOCK	80	49	85	43	65	6	.0	-.4	.0	6.8	188	20.2	124	85	31	0	0	0	0	0	0	0
MIDLAND	82	53	85	46	67	6	.0	-.3	.0	4.0	120	20.1	164	93	30	0	0	0	0	0	0	0
SAN ANGELO	82	58	86	46	70	6	T	-.4	T	4.8	99	16.8	104	92	45	0	0	0	0	0	0	0
SAN ANTONIO	88	68	91	53	78	10	T	-.6	T	1.5	24	27.5	111	90	41	3	0	0	0	0	1	1
VICTORIA	89	66	92	56	78	8	T	-.6	T	3.1	34	46.5	145	99	49	5	0	0	0	0	0	0
WACO	86	64	91	51	75	9	.5	-.1	.5	4.3	75	32.5	124	89	47	1	0	0	0	2	2	1
WICHITA FALLS	80	56	88	45	68	6	1.5	1.0	1.4	9.8	173	25.8	109	91	44	0	0	0	0	2	1	1
UT CEDAR CITY	61	37	70	33	49	0	.5	.4	.3	1.7	110	9.6	112	76	38	0	0	0	0	0	2	0
SALT LAKE CITY	63	39	74	31	51	1	1.0	-.7	.5	3.5	196	14.1	114	77	30	0	0	0	1	2	1	1
VT BURLINGTON	62	43	72	27	53	7	T	-.6	T	9.9	178	29.3	105	91	51	0	0	0	3	0	0	0
VA NORFOLK	71	50	78	42	60	1	.0	-.7	.0	6.7	93	38.7	101	97	62	0	0	0	0	0	0	0
RICHMOND	74	47	80	36	60	4	.0	-.9	.0	5.2	78	30.6	84	96	45	0	0	0	0	0	0	0
ROANOKE	74	47	81	36	60	4	.0	-.8	.0	.2	3	30.7	93	91	43	0	0	0	0	0	0	0
WA QUILLAYUTE	53	39	59	34	46	6	1.5	-1.0	.6	2.2	15	69.3	94	100	68	0	0	0	0	6	1	1
SEATTLE-TACOMA	53	44	65	41	49	-2	.9	.1	.6	1.1	24	26.6	103	95	65	0	0	0	0	3	1	1
SPOKANE	49	32	64	20	41	-4	.3	.0	.2	.3	20	10.0	85	88	54	0	0	0	2	2	0	0
YAKIMA	58	35	71	24	46	-1	.4	.3	.2	.5	69	5.8	107	96	46	0	0	0	2	5	0	0
WV BECKLEY	71	50	76	34	60	11	.0	-.6	.0	3.4	57	29.8	83	91	44	0	0	0	0	0	0	0
CHARLESTON	77	49	86	32	63	10	T	-.6	T	6.6	128	31.6	89	92	39	0	0	0	1	0	0	0
HUNTINGTON	77	48	86	30	62	8	T	-.5	T	3.2	64	30.1	88	91	37	0	0	0	1	0	0	0
PARKERSBURG	74	48	82	30	61	8	T	-.5	T	5.1	105	35.3	110	89	42	0	0	0	2	1	1	1
WI GREEN BAY	62	45	75	39	54	8	1.5	1.1	.9	5.1	103	21.5	88	89	53	0	0	0	0	4	1	1
LACROSSE	62	45	75	37	54	6	.3	-.1	.3	2.3	44	27.8	103	80	57	0	0	0	0	0	1	1
MADISON	65	47	77	35	56	9	3.0	2.6	2.5	8.4	169	32.5	121	87	58	0	0	0	0	3	1	1
MILWAUKEE	66	48	77	37	57	9	3.1	2.6	2.3	10.5	221	33.2	126	86	55	0	0	0	0	3	2	2
WAUSAU	58	41	73	35	49	5	.5	-.1	.4	5.3	91	30.9	109	93	59	0	0	0	0	3	2	2
WY CASPER	58	29	70	21	43	-1	.1	-.1	.1	.6	42	10.6	106	74	26	0	0	0	5	4	0	0
CHEYENNE	57	32	71	24	45	0	T	-.1	T	2.0	124	17.4	142	73	29	0	0	0	4	2	1	1
LANDER	59	30	72	22	44	1	.2	-.1	.2	.7	39	11.4	99	77	27	0	0	0	4	4	0	0
SHERIDAN	55	25	73	15	40	-4	.2	.0	.2	2.0	95	12.7	96	89	36	0	0	0	0	7	1	0

Based on 1951-80 normals

National Agricultural Summary

October 21 - 27, 1991

HIGHLIGHTS: Temperatures averaging well above normal across the East kept late-maturing crops progressing ahead of schedule. Rains in the Northwest and East-Central States benefited fall seeded grains and made digging of tubers easier.

SMALL GRAINS: Winter wheat seeding reached 88 percent (%) complete in the 19 major producing States, 3 percentage points ahead of last year and 2 points ahead of the 5-year average. The crop had emerged on 68% of the acreage, compared with 69% last year and 70% average. Progress was well ahead of normal in the eastern Corn Belt and Ohio Valley. Seeding of winter varieties of barley, oats, and rye continued as well. Measurable rain across the Northwest helped seeding efforts, although soil moisture supplies remained short to adequate in the region and across most of the Nation. Moisture supplies remained shortest in the central Great Plains.

CORN: Corn harvest was much earlier than normal with progress reaching 90% complete in the 17 major States, 28 points ahead of last year and 19 points ahead of the average. Harvest progress was ahead of normal in all States except Texas, with the South Dakota and eastern Corn Belt harvests running well ahead of schedule.

SOYBEANS: Soybean harvest was very near completion in the northern producing States and remained in full swing in the South. Harvest was 83% complete in the 19 major producing States, 13 points ahead of last year and 10 points ahead of the average.

COTTON: Cotton harvest reached 51% complete in the 14 major producing States, compared with 52% last year and 47% average. Picking progressed at a near-normal pace in the Mississippi and Tennessee Valleys, while Texas producers awaited a hard freeze. Mostly dry weather in the western production areas allowed growers to make good progress harvesting. The second picking was active in the Delta.

GRAIN SORGHUM: Sorghum harvest remained ahead of both last year and the historic average, despite rain delays in the Great Plains and Mississippi Valley. Eighty-eight percent of the crop was harvested in the 12 major States, compared with 76% last year.

RICE: Harvest of rice for the first time advanced to 96% complete in the five major producing States, 2 points ahead of last year and matching the historic average. The first harvest was complete in Louisiana and Texas, while cutting of a second, or ratoon, crop continued.

OTHER FIELD CROPS: The fourth cutting of alfalfa was well along in the Northeast and Rocky Mountain States, while the final cutting of other hay continued in the Southeast. Dry bean harvest was virtually complete in the West and well along in New York. Peanut digging neared completion in the Southeast and progressed in Oklahoma and Texas. Potato harvest was nearing completion Nationwide. Sugarbeet harvest remained in full swing, and sweetpotato digging was winding down.

FRUIT AND NUTS: Apple, pistachio, and pecan picking continued in Arizona, while almond and pistachio harvests neared completion in California's southern San Joaquin Valley. Harvests of apples, olives, persimmons, pomegranates, walnuts, grapefruit, lemons, and valencia oranges continued in California. Navel orange harvest began in the central San Joaquin Valley. Navel orange and grapefruit pickings increased in Florida. Cranberry harvest was well advanced in the Northeast. Ohio's grape harvest was completed, while wine grape harvest continued in Oregon. Late varieties of apples were being picked in Oregon's Hood River Valley, and cranberry harvest continued along the southern coast. Fruit harvests were decreasing in Washington.

VEGETABLES: Lettuce harvest remained active in eastern Arizona. California broccoli and cauliflower were in moderate supply, and celery was in heavy supply. Lettuce harvest was nearing completion in the Salinas-Watsonville area while continuing in the Santa Maria area. Fresh market tomato harvest for the fall quarter continued in California's Westside area. Vegetable harvests continued moving southward in Florida, with cucumbers, sweet corn, squash, peppers, tomatoes, eggplant, and snap beans as the volume leaders. Late-season vegetable harvests continued in New York. Fall cole crop harvest continued in Oregon's Willamette Valley. Carrot, cabbage, and pumpkin harvests continued on the Texas High Plains. Carrot harvest was about 50% complete in Washington.

PASTURES AND LIVESTOCK: Livestock movement to winter pastures and range continued. Ewes were being bred for spring lambing. Changing weather was causing some respiratory problems for Iowa livestock. Water supplies remained short across much of the Great Plains, forcing ranchers to haul water for grazing livestock.

Crop Progress

For Week Ending October 27, 1991

	Cotton % Harvested		
	1991	1990	Avg.
AL	83	91	76
AZ	47	59	48
AR	85	71	74
CA	35	35	35
GA	54	78	60
LA	85	95	89
MS	84	87	82
MO	89	70	80
NM	19	18	19
NC	54	61	43
OK	15	25	13
SC	54	72	59
TN	78	70	75
TX	33	32	26
14 States	51	52	47

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

	Rice % Harvested		
	1991	1990	Avg.
AR	96	90	96
CA	90	90	86
LA	100	99	100
MS	90	95	97
TX	100	100	100
5 States	96	94	96

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

	Grain Sorghum % Harvested		
	1991	1990	Avg.
AR	95	93	97
CO	77	36	42
IL	94	19	71
KS	95	80	55
LA	98	94	99
MS	96	98	97
MO	86	60	77
NE	98	87	81
NM	15	45	NA
OK	31	44	34
SD	100	95	71
TX	84	76	75
12 States	88	76	NA
Excl. States with NA	89	76	68

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

NA - not available.

	Soybeans % Harvested		
	1991	1990	Avg.
AL	43	49	44
AR	47	26	41
GA	24	29	28
IL	98	83	90
IN	97	63	77
IA	98	98	94
KS	96	85	60
KY	57	29	43
LA	60	66	64
MI	90	50	55
MN	98	97	96
MS	49	51	48
MO	81	59	66
NE	100	96	93
NC	11	18	14
OH	92	57	70
SC	16	14	11
SD	100	100	79
TN	36	23	42
19 States	83	70	73

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

	Corn % Harvested		
	1991	1990	Avg.
CO	71	35	49
GA	100	99	99
IL	98	61	81
IN	96	37	62
IA	85	78	79
KS	98	90	85
KY	90	61	75
MI	75	20	35
MN	89	65	75
MO	93	78	83
NE	96	77	72
NC	91	92	87
OH	85	28	44
PA	57	17	31
SD	98	75	58
TX	97	100	98
WI	69	25	52
17 States	90	62	71

These 17 states produced 95% of the 1990 corn crop.

Crop Condition

PERCENT

For Week Ending October 27, 1991

	Winter Wheat % Planted		
	1991	1990	Avg.
AR	50	20	41
CA	1	5	11
CO	100	100	100
GA	12	9	15
ID	93	96	96
IL	96	70	85
IN	94	67	82
KS	96	97	90
MI	97	85	80
MO	74	65	69
MT	99	100	99
NE	100	100	100
NC	34	22	29
OH	90	60	78
OK	93	94	89
OR	79	85	75
SD	100	100	100
TX	81	81	87
WA	87	98	95
19 States	88	85	86

These 19 states produced 91% of the 1990 winter wheat crop.

	Winter Wheat % Emerged		
	1991	1990	Avg.
AR	27	12	25
CA	0	0	1
CO	93	95	94
GA	9	6	9
ID	64	71	72
IL	72	30	54
IN	69	43	56
KS	70	85	80
MI	85	75	65
MO	46	42	49
MT	77	81	78
NE	93	100	100
NC	21	15	17
OH	60	36	48
OK	68	68	69
OR	36	61	43
SD	100	93	96
TX	64	61	71
WA	75	88	81
19 States	68	69	70

These 19 states produced 91% of the 1990 winter wheat crop.

State	Cotton				
	VP	P	F	G	EX
AL	0	1	25	61	13
AZ	0	0	0	82	18
AR	0	0	21	61	18
CA	0	0	10	90	0
GA	0	0	10	59	31
IA	0	4	37	59	0
MS	0	0	11	60	29
MO	0	0	58	42	0
NM	0	0	50	50	0
NC	0	0	14	78	8
OK	0	0	50	50	0
SC	0	0	14	86	0
TN	0	0	47	53	0
TX	0	10	41	46	3
14 State	0	5	31	57	7
Prev Week	0	6	30	57	7
Prev Year N/A					

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

State Summaries of Weather and Agriculture

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

ALABAMA: Rainfall 0.50 to 2.00 in. local areas north, west; little to none elsewhere. Temperatures 10 to 15° above normal.

Days suitable for fieldwork 6.1. Soil moisture 75% short, 25% adequate. Sorghum 87% harvested, 97% 1990, 87% avg. Peanuts 99% dug, 99% 1990, 94% avg.; 97% combined, 99% 1990, 88% avg. Cotton 83% harvested, 91% 1990, 76% avg.; 1% poor, 25% fair, 61% good, 13% excellent. Soybeans 98% turning color, 99% 1990, 97% avg.; 86% dropping leaves, 93% 1990, 87% avg.; 77% mature, 87% 1990, 78% avg.; 43% harvested, 49% 1990, 44% avg.; 5% poor, 39% fair, 56% good. Winter wheat 31% seeded, 35% 1990, 44% avg. Pastures 8% poor, 64% fair, 28% good. Livestock 30% fair, 63% good, 7% excellent. Activities: Harvesting cotton, sorghum, soybeans, sweet potatoes; digging, combining peanuts; preparing land; seeding small grains; plowing cotton stalks; pruning peach trees, removing brush; marketing cattle; general care of livestock, poultry, catfish.

ARIZONA: Cooler, scattered showers throughout period. Scattered showers, 20th through 22nd, statewide; 23rd, east, north. Precipitation, trace to 0.33 in. Temperature normal to 7° above normal. Extremes 26°; 87° higher elevations, 38°; 98° deserts.

Cotton bolls opening 99%, 100% 1990, 100% avg. Cotton harvested 47%, 59% 1990, 48% avg.; activities, defoliation, stalk shredding, plowing down, west; 82% good, 18% excellent. Alfalfa harvest moderate; weed, insects, light; good. Peanuts harvested, west. Lemon, grapefruit, cantaloupe harvest, west, central. Watermelons harvested central. Red, green chile, apples, pistachio, lettuce harvest, east. Pecan harvest, central. Mixed vegetables harvested, central, east.

ARKANSAS: Temperatures above normal. First of the week dry with scattered showers last half, heaviest in the northwest. Extremes 33°; 85°.

Days suitable for fieldwork 6. Soil moisture supplies 60% short, 40% adequate. Corn harvested 100%, 100% 1990, 100% avg. Pasture 26% poor, 53% fair, 21% good. Alfalfa 11% poor, 62% fair, 27% good. Other hay 6% poor, 67% fair, 27% good. Livestock good. Activities: Harvesting rice, cotton, grain sorghum, corn, hay; seeding supplemental cool season forage. Cotton harvest past peak. Some producers second picking cotton. Gins running 24 hours a day. The cotton classing office reported 655,499 bales had been classed by October 24, 1991.

CALIFORNIA: Strong high pressure over the State gave way to a low pressure trough for significant cooling. Main system brought rain to the northern two thirds of the State with some scattered showers over the southern portions as well. Temperatures dropped from above normal at the beginning of the week to below normal by the end of the week.

Open weather, good progress field activities until 25th, 26th when heavy rain much of State. Rice harvest winding down weekend. Stubble burned, air quality regulations permitting. Cotton defoliation about complete. Harvest full

swing. Shredding, discing, pink bollworm control rapid. Some oats, winter forage seeded. Preparations seeding desert wheat crop. Sugarbeets planted, harvested. Pre irrigation 1992 crops active. Field preparations seeding 1992 small grains active. Seeded alfalfa southern areas. Alfalfa hay harvest seasonally normal. Late irrigations, pruning in treefruit orchards increased. Almond, pistachio harvests neared completion, Southern San Joaquin Valley. Harvest continued, apples, olives, persimmons, pomegranates, walnuts. Picking, avocados, grapefruit, lemons, valencia oranges continued. Late variety table grapes, packed, volume light. Harvesting, boxing of raisins, complete. Picking, kiwifruit began, upper Sacramento Valley, continued, Southern San Joaquin Valley. Central Valley navel orange harvest began. Salinas Watsonville, Santa Maria areas, broccoli volume moderate, good quality. Cauliflower moderate, variable quality. Celery fairly heavy, good quality. Lettuce, Salinas Watsonville area, winding down seasonally, variable quality; harvest moderate, good quality Santa Maria area. Harvest slow, Westside area, quality problems due to tip burn, decay. Winter, spring lettuce planting continued, Riverside county. Melon packing completed, central valley area; watermelon harvest almost complete, desert area. Onion, garlic planting continued, Westside area; onion planting started, desert area. Fall potato digging active, Tulalake Butte Valley area, good quality. Fall quarter fresh market tomato harvest continued, Westside area. Other vegetables being harvested: beans, cabbage, cucumbers, eggplant, okra, peas, peppers, pumpkins, squash, sweet corn. Range very poor to fair. Supplemental feeding continued. Water supplies improved northern Sacramento valley. Fall calving underway. Livestock movement light.

COLORADO: Dry, windy conditions with near record high temperatures in east on 21st, 22nd. On 23rd, 24th a cold front produced 5.00 to 15.0 in. of snow at many mountain locations with 0.50 in. of moisture at Grand Junction, near 1 in. at Eagle, Glenwood Springs, lesser amounts in the east. Temperatures 1 to 3° above normal in most locations.

Days suitable for fieldwork 6.1. Soil moisture 27% very short, 47% short, 27% adequate. Fourth cutting alfalfa hay 59% complete, 67% 1990, 44% avg. Dry beans 100% harvested, 99% 1990, 99% avg. Sorghum 77% harvested, 36% 1990, 42% avg. Corn for grain 71% harvested, 35% 1990, 49% avg. Sugarbeets 65% harvested, 81% 1990, 84% avg. Winter wheat seeding is complete. Winter wheat 93% emerged, 95% 1990, 94% avg. Crop is in mostly good, top soils dry through all producing areas. Livestock mostly good. Pasture, range feed good.

FLORIDA: Temperatures 6 to 10° above normal north, 4 to 7° above normal central, 1 to 5° above normal south. Extreme highs middle to upper 80s over State. Lows upper 50s to low 60s north, low 60s central, interior south. Rain reported for 1 day north, 2 to 3 days central, 2 to 6 days south. Rain totals; under 0.25 in. north, under 0.50 in. central, 0.75 in. south except 1 to 3 in. common near southeast coast.

Soil moisture Panhandle short to adequate. North, central Peninsula short to adequate, southern Peninsula adequate to surplus. Cotton harvest, sugarcane planting active. Soybean, sugarcane harvest gaining momentum. Peanut harvest near completion. Small grain planting active. States pastures mostly good. Pasture 30% fair, 65% good, 5% excellent. States cattle herds mostly fair to good. Citrus tree excellent, moisture adequate, several rains this week. High winds helped dry wet areas. Good on tree color for early fruit. Navels, early oranges, all grapefruit increasing harvest. Early tangerine, K-Early being packed for fresh use. Above normal temperatures, limited rainfall over major vegetable producing areas. Field preparation, planting winter crops active. Harvest continued southward movement. Volume leaders: Cucumbers, sweet corn, squash, peppers, tomatoes, eggplant, snap beans. First specialty lettuce cut.

GEORGIA: Warm with little rain. Temperatures 8 to 12° above normal. Warmest mid, upper 70s mountains, mid to upper 80s central, south. Coolest upper 40s mountains to low 60s coast. Few widely scattered light showers, but rain under 0.25 in. Most of State no rain.

Days suitable for fieldwork 6.4. Soil moisture 36% very short, 57% short, 7% adequate. Cotton 96% bolls open, 98% 1990, 95% avg.; Good harvest weather, harvest 5 to 6 days behind normal. Sorghum 27% fair, 73% good; 83% harvested for grain, 82% 1990, 82% avg. Peanuts 6% poor, 59% fair, 35% good; 99% dug, 98% 1990, 97% avg.; 95% threshed, 96% 1990, 91% avg. Soybeans 7% poor, 42% fair, 45% good, 6% excellent; 99% dropping leaves, 99% 1990, 96% avg.; 24% harvested, 29% 1990, 28% avg. Wheat 11% poor, 47% fair, 41% good, 1% excellent; dry soils slowing planting, germination. Rye, other small grain seedlings slowed by dry soils, fair to good. Apples 91% harvested, 98% 1990, 96% avg. Pecans 5% very poor, 30% poor, 39% fair, 26% good; 20% harvested, 20% 1990, 16% avg. Pasture, hay fair to good, down some from last week. Some farmers feeding hay to cattle on pastures. Cattle 15% fair, 85% good. Hogs 14% fair, 84% good, 2% excellent; Cattle, hogs good. Activities: Harvesting late row crops, planting small grains, preparing small grain seedbeds, routine care of livestock, poultry, irrigating vegetables, small grains where facilities are available.

HAWAII: Weather mostly warm, humid, scattered showers evenings, early morning. Temperatures mid 60s to low 90s. Winds 5 to 25 mph. Rainfall none to 2.70 in.

Days suitable for fieldwork 7.0. Sugarcane planting, harvesting operations, normal. Weather dried fields from previous week's rain helping farmers return to normal schedules.

IDAHO: Temperatures 4° below normal to 2° above normal. Precipitation fell Statewide; Sandpoint received the most with 1.33 in.

Days suitable for fieldwork 6. Soil moisture 14% very short, 45% short, 41% adequate. Winter wheat good; 93% planted, 96% 1990, 96% avg.; 64% emerged, 71% 1990, 72% avg. Potato good; 98% harvested, 99% 1990, 98% avg. Sugarbeets 64% harvested, 73% 1990, 75% avg. Apple harvest 66% complete, 97% 1990, 94% avg. Onion harvest 100% complete. Corn for grain 40% harvested, 24% 1990, 44% avg. Corn for silage 98% harvested. Irrigation water supplies 10% very poor, 20% poor, 28% fair, 42% good, 0% excellent. Cattle being moved off summer pastures. Other livestock

activities: Weaning calves, vaccinating, pregnancy-checking cows. Activities: Planting of winter wheat, harvesting of potatoes, sugarbeets, apples. Livestock good to excellent. Pasture, range conditions 73% of normal.

ILLINOIS: Temperatures 8 to 12° above normal. Precipitation generally 1.00 to 2.00 in. above normal across the State.

Days suitable for fieldwork 5.25. Soil moisture 49% short, 50% adequate, 1% surplus. Winter wheat emerged 72%, 30% 1990, 54% avg. Pasture condition as a % of normal, where 100% = normal, was 76%. Winter wheat 33% fair, 65% good, 2% excellent.

INDIANA: Temperatures 10 to 15° above normal. Highs upper 60s to middle 70s. Lows 50s. Dry through 23rd, rains 24th through weekend. Statewide rains, 1.00 to 4.00 in. More northeast, central. Rains boosted soil moisture supply.

Days suitable for fieldwork 5.9. Topsoil 53% short, 40% adequate, 7% surplus. Subsoil 76% short, 21% adequate, 3% surplus. Corn moisture content 16%, 22.5% 1990, 19% avg. Soybean moisture content 12%, 13% 1990, 13% avg. Winter wheat 4% poor, 45% fair, 46% good, 5% excellent. Winter wheat acres plowed 95%, 63% 1990, 88% avg. Pasture 58% of normal. Hay, roughage availability 5% very short, 28% short, 63% adequate, 4% surplus. Tobacco processing 15%, 12% 1990. Apple harvest 97%. Corn, soybean harvest nearing completion. Winter wheat seeding nearing completion. Tobacco processing underway.

IOWA: Temperatures near normal northwest to 10° above normal far east. Extremes 22°; 86°. Precipitation very light northwest third; moderate to heavy elsewhere. Rain 0.04 to 3.02 in.; average 1.01 in.

Days suitable for fieldwork 5.6. Topsoil 42% short, 57% adequate, 1% surplus. Subsoil 54% short, 45% adequate, 1% surplus. Pasture condition 80% of normal. Winter wheat stand 78% of normal. Winter wheat 94% planted, 100% 1990, 94% avg. Fall row crop tilling 25% complete, 23% 1990, 30% avg. Fall fertilizer application 18% complete, 18% 1990, 23% avg. Weather causing some respiratory problems in livestock.

KANSAS: Temperatures normal west, 3 to 4° above central, east. Precipitation 0.30 in. to 0.50 in. east; less than 0.10 in. elsewhere.

Days suitable for fieldwork 6.5. Topsoil 100% short; subsurface moisture 94% short, 6% adequate. Corn, sorghum, soybean harvest excellent progress in near ideal weather. Most crops well ahead of schedule. Wheat planting slowed by short moisture. Emergence slow; not enough moisture to germinate seed. Range, pastures continue to decline. Grazing very short. Producers grazing grain stubble where stockwater available. Stockwater adequate west; short to very short central, east where many producers hauling water. Supplemental feeding, heavy culling continues.

KENTUCKY: Temperature 65°. Highs 8 to 9° above average. Lows 11° above mean. Rainfall 1.10 in. Most of rain fell in the west.

Days suitable for fieldwork 4.2. Soil moisture 16% very short, 53% short, 29% adequate, 2% surplus. Corn, soybean harvest active. Burley stripping 22% complete, 20% 1990, 18% avg. Condition fair to mostly good. Markets open Nov. 25. Wheat 74% seeded, 53% 1990, 64% avg. Late week rain beneficial germination, growth. Pastures fair to good.

LOUISIANA: Temperatures 5° to 7° above normal. Extremes 45°; 89°. Rainfall 0.06 in. west central to 1.98 in. southwest.

Days suitable for fieldwork 6.1. Soil moisture 23% very short, 54% short, 20% adequate, 3% surplus. Cotton 100% open bolls, 100% 1990, 100% avg. Cotton stalks were being cut in fields where harvesting was complete. Hay 96% final cutting, 96% 1990, 98% avg. Pecans 29% poor, 57% fair, 14% good; 16% harvested, 19% 1990, 12% avg. Rice second crop harvesting continued, yields above average. Soybeans 92% leaves turning color, 99% 1990, 99% avg.; 84% shedding leaves, 75% 1990, 89% avg. Sweet potatoes 70% fair, 30% good; 86% harvested, 81% 1990, 86% avg. Harvesting resumed at faster pace due to showers, less bruising, skinning. Sugarcane 1% poor, 18% fair, 59% good, 22% excellent; 100% planted, 98% 1990, 98% avg.; 25% harvested, 4% 1990, 20% avg. Wheat 15% planted, 10% 1990, 19% avg.; 7% emerged, 5% 1990, 9% avg. Planting resumed at a faster pace due to increased soil moisture. Vegetables 3% very poor, 15% poor, 49% fair, 33% good. Pastures 1% very poor, 7% poor, 11% fair, 25% good, 56% excellent. Livestock 31% fair, 64% good, 5% excellent. Crawfish pond management continued.

MARYLAND & DELAWARE: MARYLAND: Rainfall none. Temperature 57°, normal 54°. Extremes 23°; 82°.

Days suitable for fieldwork 6.3. Topsoil 5% very short, 21% short, 69% adequate, 5% surplus. Subsoil 42% short, 58% adequate. Field corn fair; soybeans, sorghum fair to good; small grains were in good. Field corn 81% harvested for grain, 73% 1990, 78% avg. Soybeans 42% harvested, 39% 1990, 40% avg. Sorghum 86% harvested, N/A 1990, N/A avg. Sweet potatoes 85% harvested, 95% 1990, 90% avg. Wheat 89% seeded, 50% 1990, 58% avg. Barley 86% seeded, 89% 1990, 84% avg. Rye 69% seeded, 80% 1990, 74% avg. Oats 90% seeded, 40% 1990, 53% avg. Other hay third cut 78% complete, 86% 1990, N/A avg.; fourth cut 36% complete, 44% 1990, N/A avg. Alfalfa fourth cut 89% complete, 94% 1990, 89% avg.; fifth cut 53% complete, 25% 1990, N/A avg. Hay supplies short to adequate. Pasture good. Apples good; 85% harvested, 95% 1990, 96% avg. Activities: Harvesting hay, vegetables; repairing fence; hauling manure; spreading fertilizer; maintaining machinery; caring for livestock.

DELAWARE: Precipitation 0.01 in. Temperature 56°, normal 55°. Extremes 32°; 81°.

Days suitable for fieldwork 6.3. Topsoil 14% short, 86% adequate. Subsoil moisture 100% adequate. Soybeans, sorghum, small grains good. Soybeans 32% harvested, 47% 1990, 40% avg. Sorghum 73% harvested, N/A 1990, N/A avg. Wheat 46% seeded, 41% 1990, 44% avg. Barley 86% seeded, 85% 1990, 80% avg. Rye 68% seeded, 67% 1990, 52% avg. Oats 67% seeded, N/A 1990, N/A avg. Alfalfa fifth cut 53% complete, 33% 1990, N/A avg. Hay supplies adequate. Pasture good. Activities: Harvesting hay, vegetables; repairing fence; hauling manure; spreading fertilizer; maintaining machinery; caring for livestock.

MICHIGAN: Temperatures 2° below to 11° above normal. Extremes 22°; 81°. Precipitation 0.09 to 4.23 in. across the State.

Days suitable for fieldwork 5.0. Soil moisture 5% short, 65% adequate, 30% surplus. Corn 75% harvested, 20% 1990, 35% avg. Soybeans 90% harvested, 50% 1990, 55% avg. Winter wheat 97% planted, 85% 1990, 80% avg.; 85% emerged, 75% 1990, 65% avg. Pasture condition 85% of normal. Activities: Planting wheat; harvesting

corn, soybeans, sugarbeets; spreading fertilizer, lime; making cider; cutting Christmas trees, wood; repairing, storing equipment.

MINNESOTA: Temperatures 7° below to 5° above normal. Extremes 16°; 85°. Precipitation none to 0.59 in. Greatest weekly total 1.03.

Days suitable for fieldwork 5.6. Topsoil 5% very short, 28% short, 59% adequate, 8% surplus. Field corn 89% picked/combined, 65% 1990, 75% avg.; 16% moisture 27% 1990, 20% avg.; 46% stubble worked, 27% 1990, 42% avg. Soybeans 98% combined, 97% 1990, 96% avg.; 11% moisture, 10% 1990, 11% avg.; 56% stubble worked, 54% 1990, 60% avg. Sugarbeets 97% harvested 99% 1990, 99% avg. Sunflowers 98% harvested, 98% 1990, 89% avg.

MISSISSIPPI: Temperature 69°, 7° above normal. Extremes 36°; 88°. Scattered showers statewide; 0.97 in. 0.37 above normal. Soil temperature 69°.

Days suitable for fieldwork 5.3, 5.5 1990, 4.5 avg. Soil moisture 13% very short, 38% short, 47% adequate, 3% surplus. Corn 93% harvest, 97% 1990, 95% avg.; 9% poor, 65% fair, 26% good. Cotton 84% harvest, 87% 1990, 82% avg.; 11% fair, 60% good, 29% excellent. Peanuts 94% harvest, 97% 1990, 96% avg. Rice 90% harvest, 95% 1990, 97% avg.; 62% fair, 33% good, 5% excellent. Sorghum 96% harvest, 98% 1990, 97% avg.; 17% poor, 23% fair, 55% good, 5% excellent. Soybeans 99% coloring, 100% 1990, 100% avg.; 90% shedding leaves, 97% 1990, 97% avg.; 49% harvest, 51% 1990, 48% avg.; 43% fair, 54% good, 3% excellent. Sweet potatoes 90% harvest, 91% 1990, 87% avg. Wheat planted 48%, 31% 1990, 38% avg.; 29% emerged, 25% 1990, 31% avg.; 28% poor, 28% fair, 44% good. Pecans 28% harvest, 11% 1990, 10% avg.; 2% very poor, 38% poor, 45% fair, 11% good, 4% excellent. Livestock 1% fair, 89% good, 10% excellent. Pasture 88% of normal. Activities: Harvesting crops, preparing winter forage.

MISSOURI: Temperatures 4° above normal west to 10° above normal east. Rainfall 0.92 in., ranging from less than 0.25 in. central, north central, northeast, to over 2.00 in. south central, southeast.

Days suitable for fieldwork 5.7. Topsoil 69% short, 31% adequate. Moisture mostly short northwestern, west central, southwestern, south central districts. Corn harvest ranges about 90% complete northern districts to virtually complete west central, southeastern districts. Soybean harvest ranges 58% complete southwest, 70% southeast, to over 85% northwest, north central, northeastern districts. Sorghum harvest ranges 67% southwest to around 90% northwestern, north central, west central, south central, southeastern districts. All districts over 70% wheat seeded except southeast 67%. Condition emerged wheat 2% very poor, 14% poor, 64% fair, 20% good. Rain needed for wheat, pastures. Ground worked at least once for spring crops 28%, 23% 1990, 28% avg. Pasture 20% very poor, 28% poor, 38% fair, 13% good, 1% excellent.

MONTANA: Temperatures fell from above normal to well below normal by weekend. Most divisions 5° below normal. Precipitation reported most areas, particularly heavy west. Mostly dry northeast. By the weekend, snow fell.

Days suitable for fieldwork 5.2. Topsoil 56% short, 39% adequate, 5% surplus. Subsoil 54% short, 44% adequate, 2% surplus. Winter wheat 4% poor, 33% fair, 47% good, 16% excellent. Potatoes harvested 97%, 96% 1990, 95% avg. Sugarbeets harvested 97%, 93% 1990, 92% avg. Dry beans harvested 99%, 99% 1990, 98% avg. Pasture, range feed condition 88% of normal.

NEBRASKA: Temperatures 5° above normal in the east central to normal in the southwest. Light precipitation latter half of week, with trace amounts in the west to 0.37 in the east central.

Days suitable for fieldwork 6.9. Topsoil 90% short, 10% adequate. Subsoil 88% short, 12% adequate. Corn 96% harvested, 77% 1990, 72% avg. Sorghum 98% harvested, 87% 1990, 81% avg. Wheat 93% emerged, 100% 1990, 100% avg.; 8% very poor, 14% poor, 36% fair, 42% good.

NEVADA: Temperatures slightly above normal. Extremes 8°; 99°. Precipitation trace to 1.07. Summerlike temperatures prevalent during most of month were replaced by more seasonable temperatures late in the week. A relatively strong cold front dropped daytime high temperatures 20 to 30° across the State. Most precipitation occurred in northern areas, with higher elevation areas receiving snow. Sudden cold, wet conditions stressing livestock on open range.

Harvesting operations essentially complete. Major activities center on preparing for winter. Potato marketing underway, prices low. Livestock movement to winter grazing continues.

NEW ENGLAND: Precipitation: trace amounts south; none to 0.05 in. north, up to 1.00 in. in Maine. Temperatures low 40s to high 50s; 1° below to 8° above normal. Maximum temperatures mid 60s to high 70s; minimum temperatures high teens to mid 30s.

Days suitable for fieldwork 6.1. Soil moisture 64% adequate, 36% surplus. Grazing availability 4% very short, 24% short, 72% adequate. Fieldwork 1.2 days ahead of schedule. Maine potatoes 97% harvested; good. Rhode Island potatoes 100% harvested. Connecticut Valley potatoes 98% harvested; good. Field corn 97% harvested; fair. Third cut hay 95% complete; good. Apples 100% harvested. Cranberry harvest 95% complete, berry size medium; good. Activities: Harvesting potatoes, field corn, cranberries; putting crops in storage; preparing fields for winter.

NEW JERSEY: Temperatures much above. Extremes 25°; 79°. No rainfall. Estimated soil moisture percent field capacity, averaged 93% north, 82% central, south. Four inch soil temperature averaged 52° north, 55° central, 56° south.

Harvest of corn active. Soybean combining active. Sweet potato, Irish potato digging active. Fall variety apple harvest in progress. Cranberry harvest well advanced. Fall vegetable harvest in progress. Plowing, planting active for cover crops. Early seeding growth good. Pasture growth seasonally good.

NEW MEXICO: Mild, mainly dry weather dominated week. Southeast plains remained warm with temperatures 2 to 5° above normal. Elsewhere, temperatures near normal except for the north central mountains which were 2 to 3° cooler than usual. Showers in the mountains, southwest produced light rainfall amounts generally less than 0.10 in.

Days suitable for fieldwork 6.8. Soil moisture 67% short, 33% adequate. Crop conditions: Alfalfa 33% fair, 67% good. Corn 25% fair, 75% good; harvest nearing completion. Irrigated sorghum 11% poor, 11% fair, 78% good. Dryland sorghum 20% fair, 80% good. Irrigated wheat 25% fair, 75% good. Dryland wheat 62% fair, 38% good. Lettuce 33% fair, 67% good; harvest active. Chile 50% fair, 50% good. Pecans 40% fair, 60% good. Cattle, sheep fair to good. Range 92% of normal.

NEW YORK: Dry week. Buffalo reported more rain than any other station; they had only 0.10 in. Week started 10 to 15° below normal, by midweek it was 15 to 20° above normal. Warm weather continued through the weekend. Extremes 20°; 81°.

Days suitable for fieldwork 6.5. Soil moisture short to mostly adequate. Pasture conditions 56% of normal. Grain corn harvest 53% complete, 19% 1990, 24% avg. Progress remained two weeks ahead of normal. Silage corn 95% harvested, 81% 1990, 81% avg. Dry beans 90% harvested. Fall plowing gained momentum. Late season vegetable harvest continued. Crop residue turned over in preparation for winter season. Fruit growers busy with orchard clean-up chores, preparing machinery for winter storage.

NORTH CAROLINA: Temperatures 4 to 6° above normal. Precipitation none to 0.30 in.

Days suitable for fieldwork 6.3. Soil moisture 11% very short, 35% short, 52% adequate, 2% surplus. Crop condition: Cotton 14% fair, 78% good, 8% excellent; soybeans 1% poor, 30% fair, 67% good, 2% excellent; Pasture 4% very poor, 13% poor, 34% fair, 48% good, 1% excellent. Harvested: Corn for grain 91%; sorghum for grain 65%; sweet potatoes 70%; Peanuts dug 98%; peanuts threshed 85%; cotton 54%; soybeans 11%. Soybeans dropping leaves 85%; wheat emerged 21%. Planted: Wheat 34%; oats 53%; barley 66%; rye 47%. Activities: Harvesting cotton, corn, sorghum, sweet potatoes, soybeans, truck crops, peanuts, hay; planting small grains. Other activities: Land preparation; seeding pastures; shearing Christmas trees; tending livestock; equipment repair; general farm maintenance.

NORTH DAKOTA: Temperatures 15° below normal northeast to 7° below normal southwest. Extremes 9° northeast; 74° southwest. Precipitation 0.03 in. southeast to 0.53 in. northeast.

Days suitable for fieldwork 3.6. Topsoil 10% very short, 38% short, 50% adequate, 2% surplus. Subsoil 20% very short, 60% short, 20% adequate. Corn for grain 99% harvested, 77% 1990, 80% avg. Sunflower 96% harvested, 94% 1990, 86% avg. Pasture conditions 70% of normal. Stockwater supplies 11% very short, 44% short, 45% adequate.

OHIO: High temperatures 70° to mid 70s; low temperatures mostly 50s. Precipitation generally occurred in northern, western areas with amounts mostly 1.00 to 2.00 in., while the major portion of the State continued to suffer from dryness.

Days suitable for fieldwork 6.3. Fall harvest still far ahead of schedule. Soil moisture 62% short, 36% adequate, 2% surplus. Pastures 16% very poor, 25% poor, 38% fair, 19% good, 2% excellent. Potato harvest 96% complete, 92% in 1990, 90% 5 yr avg. Fourth cut alfalfa 84% complete. Grape harvest 100%. Activities: Digging sugarbeets, hauling manure, fall tillage. Many farmers have winter feed supply concerns.

OKLAHOMA: Temperatures 3° above normal Panhandle to 8° above normal northeast. Rainfall 0.45 in. Panhandle to 13.75 in. southeast.

Days suitable for fieldwork 6.8. Topsoil 94% short, 6% adequate. Subsoil 57% short, 43% adequate. Wheat 93% planted, 94% 1990, 89% avg.; 68% emerged, 68% 1990, 69% avg.; fair. Cotton 82% open bolls, 95% 1990, 79% avg.; 15% harvested, 25% 1990, 13% avg.; good to fair. Sorghum 85% mature, 93% 1990, 87% avg.; 31% harvested, 44% 1990, 34% avg.; fair. Soybeans 36% harvested, 41% 1990, 35% avg.; fair to good. Peanuts 69% harvested, 53% 1990, 44% avg.; fair to good. Pasture 93%. Cattle good; marketings average; prices steady with last week.

OREGON: Temperatures normal to 5° below normal. Precipitation varied across State. Central Oregon, 0.33 in.; eastern locations, 0.50 to 1.00 inch; high Cascade terrains, coast, 2.00 to 4.00 in.; Willamette Valley, 1.50 in.; southwest, 0.29 to 3.37 in. Snow was heaviest in southern Cascades; snow level dropped to 3000 feet.

Soil moisture 65% short, 35% adequate. 1992 winter wheat planted, 79%. 1992 winter wheat emerged, 36%. 1992 barley planted, 41%. Field corn harvest underway, near Hermiston. Field preparation, seeding underway; statewide. Mint planting underway, Lane County. Sugarbeet harvest continued, Klamath County. Hazelnut harvest continued, slowed by rain. Wine grapes harvest continued, Willamette Valley. Late variety apples, Granny Smith, continued, Hood River Valley. Cranberry water supplies replenished/harvest continued, southern coast. Red raspberry growers pruning, tying. Potato harvest concluding, statewide. Fall cole crop harvest continued, Willamette Valley. Willamette Valley cauliflower, squash, carrots complete. Livestock condition was mostly good to excellent. Most livestock off summer ranges. Weanings, pre conditioning, shipping of yearlings continued. Supplemental feeding in most areas. Statewide range, pasture, 5% very poor, 20% poor, 40% fair, 31% good, 4% excellent.

PENNSYLVANIA: Warm, dry across State. Temperature 55°, 3° above normal. Extremes 19°; 83°. Precipitation 0.05 in., 0.61 in. below normal.

Days suitable for fieldwork 6. Soil moisture 67% short, 33% adequate. Corn 98% mature, 74% 1990, 86% avg.; 57% harvested, 17% 1990, 31% avg. Ensilage corn harvested 98% harvested, 77% 1990, 88% avg. Corn 19% very poor, 24% poor, 29% fair, 23% good, 5% excellent. Soybean harvest 42% complete, 14% 1990, 29% avg.; 12% very poor, 25% poor, 30% fair, 30% good, 3% excellent. Potato harvest 94% complete, 87% 1990, 92% avg. Fall plowing 80% complete, 79% 1990, 87% avg. Winter wheat 91% planted, 79% 1990, 87% avg. Barley 97% planted, 93% 1990, 96% avg. Third cutting alfalfa 98% complete, 90% 1990. Fourth cutting alfalfa 80% complete, 61% 1990. Quality of hay made during week mostly fair. Amount of feed being obtained from pastures 34% very poor, 31% poor, 31% fair, 4% good. Apple harvest 92% complete, 86% 1990. Grape harvest 97% complete, 88% 1990. Activities: Repairing fence; hauling manure; harvesting hay, potatoes, corn silage, corn, soybeans; maintaining machinery; caring for livestock; fall plowing, planting.

PUERTO RICO: Island rainfall 0.91 in. was 0.83 in. below normal. Highest rainfall 3.33 in. at San Sebastian, 2.86 in. at Isabela Aes, 2.40 in. at Cerro Maravilla. Highest 24 hour total 1.75 in. at Toa Baja. Divisional temperature averaged 80 to 81° on Coasts, 73 to 74° in the Interior with mean station temperature 64.6° at Cerro Maravilla to 83.1° at Vieques. Extremes 55°; 94°.

SOUTH CAROLINA: Temperatures 8 to 9° above normal. Rainfall none northwest to 0.10 in. mountains.

Days suitable for fieldwork 6.3. Soil moisture 19% very short, 74% short, 7% adequate. Cotton 14% fair, 86% good; 54% harvested, 72% 1990, 59% avg. Fall hay fair to good; 93% harvested, 83% 1990, 89% avg. Peanuts fair to good; 93% harvested, 70% 1990, 71% avg. Sorghum fair to

good; 78% harvested, 76% 1990, 65% avg. Soybeans 7% poor, 59% fair, 34% good; 95% leaves turning, 94% 1990, 93% avg; 61% shedding leaves, 72% 1990, 71% avg; 46% mature, 58% 1990, 55% avg.; 16% harvested, 14% 1990, 11% avg. Sweet potatoes fair to good; 83% harvested, 77% 1990, 69% avg. Winter grazing fair to good; 64% planted, 68% 1990, 71% avg; 45% emerged, 55% 1990, 53% avg. Pastures 1% very poor, 15% poor, 68% fair, 16% good.

SOUTH DAKOTA: Temperatures averaged close to normal. Week began warm, turned cool, then mild again. Extremes 9°; 85°. Many stations reported no precipitation. Extreme northwest 8 to 10 in. of snow.

Days suitable for fieldwork 6.1. Topsoil 38% critical, 44% short, 18% adequate. Subsoil 41% critical, 42% short, 17% adequate. Winter wheat 4% very poor, 14% poor, 40% fair, 35% good, 7% excellent. Winter rye 7% poor, 26% fair, 53% good, 14% excellent. Livestock 5% fair, 84% good, 11% excellent. Pasture conditions 78% of normal.

TENNESSEE: High pressure remained stationary entire week. Warm, humid air brought scattered showers west, middle. East remained dry. Temperatures 5 to 10° above normal statewide.

Days suitable for fieldwork 5.0. Soil moisture 7% very short, 36% short, 54% adequate, 3% surplus. Corn 88% harvested grain, 79% 1990, 88% avg. Cotton 78% harvested, 70% 1990, 75% avg. Sorghum 82% harvested, 80% 1990, 93% avg. Soybeans 92% shedding leaves, 93% 1990, 97% avg.; 74% mature, 57% 1990, 78% avg.; 36% harvested, 23% 1990, 42% avg.; 2% very poor, 1% poor, 53% fair, 33% good, 11% excellent. Burley tobacco 40% stripped, 37% 1990, 39% avg. Wheat 50% seeded, 33% 1990, 51% avg. Pastures 4% very poor, 6% poor, 48% fair, 39% good, 3% excellent. Cattle 1% poor, 16% fair, 80% good, 3% excellent.

TEXAS: Disturbances from the Southwest flowed over State and combined with a weak frontal system to produce some heavy rains, severe weather over northern half of State. Few spots in North Texas received 2.00 to 5.00 in. during a seven day period. South, generally dry weather reported, though few showers in south central Texas, along Upper Coast. Temperatures above normal, ranging from only a few degrees above normal in West Texas to 5 to 9° above normal in east, south. Rainfall below normal in southern half of State, above to much above normal in North. South Texas, Lower Valley reported no precipitation for week.

Crops: Under open conditions, producers virtually completed corn harvest in Plains. Sorghum has dried enough for harvest operations to continue in High Plains with some good yields reported. Warm weather continued to promote cotton development during week. Harvest activities expanded in Plains on limited basis. Some producers applied harvest aid chemicals, most producers waiting for good, hard freeze. Aphids caused problems in some fields. Small grain planting continued on limited basis due dry conditions. Additional moisture needed to improve germination. Irrigated fields being watered, growth mostly stopped on extremely dry nonirrigated fields. Some replanting may be necessary due to dry weather. Statewide wheat condition rated at 70 percent of normal. Soybean harvest ahead of schedule last week. Some lodging reported in few fields as harvest progressed. Peanut harvest progressed; however, moisture needed to continue harvest activities. Statewide peanut condition rated at 84 percent of normal.

Commercial Vegetables: High Plains, carrot, cabbage, pumpkin harvest continued with excellent quality, yields. East Texas, sweet potato harvest winding down. Some fall greens being harvested, while others continued being planted. Trans-Pecos, activity at minimal, as chile harvest nears completion. Pecan harvest active in Central Texas. Heavy infestation of shuckworms, weevils remained problem throughout most fields. Quality not as good as early expected.

Range and Livestock: Range, pasture conditions remained good, dry weather affecting forage quality. Cattle good shape, calves being moved to market. Breeding ewes for spring lambing in High Plains.

UTAH: No weather data available

Days suitable for fieldwork 5.7. Soil moisture 47% short, 53% adequate. Winter wheat emerged 70%, 74% 1990. Corn grain 36% harvested. Fourth crop alfalfa hay 82% cut, 98% 1990. Apple harvest 88% completed, 99% 1990. Potato harvest 95% completed, 97% 1990. Cattle 86% in from range, 87% 1990. Sheep 92% in from range, 91% 1990.

VIRGINIA: High pressure system moved east of the State raising temperatures to much above normal. Dense fog was common. Extremes 25°; 87°. Precipitation was sparse.

Days suitable for fieldwork 5.8. Topsoil 40% very short, 21% short, 38% adequate, 1% surplus. Corn for grain 87% harvested, 74% 1990, 76% avg. Soybeans 26% harvested, 21% 1990, 20% avg. Peanuts nearly all dug, 90% 1990, 92% avg. Peanuts combined 98%, 81% 1990, 81% avg. Cotton harvested 40%. Wheat 35% seeded, 31% 1990, 33% avg. Barley 77% seeded, 75% 1990, 72% avg. Oats 83% seeded, 82% 1990, 77% avg. Apples 93% harvested, 89% 1990, 87% avg. Pasture 31% very poor, 19% poor, 39% fair, and 11% good. Harvesting cucumbers, snap beans.

WASHINGTON: Temperatures 2° below normal to 7° below normal east; normal to 6° below normal west. Precipitation 0.01 to 0.63 in. east; 0.59 to 1.34 in. west.

Days suitable for fieldwork 5.5. Soil moisture 74% short, 26% adequate. Hay, other roughage 1% very short, 10% short, 88% adequate, 1% surplus. Irrigation water 100% short. Range

and pasture 5% very poor, 47% poor, 48% fair. Winter wheat 6% very poor, 1% poor and 93% fair. Potatoes 100% good. Dry beans 100% good. Corn 100% good. Winter wheat 87% planted, 75% emerged. Potatoes 83% harvested. Corn for grain 30% harvested. Dry beans 100% harvested. Measurable rain across the dryland wheat growing area helped the seeding efforts. Seeding will continue for about another week or so if farmers can reenter the fields. Some winter canola has been killed by frost in Garfield County. Fruit harvest was winding down. Carrot harvest was about 50% complete. Calves looked good coming out of the mountain ranges.

WEST VIRGINIA: Temperature 61°. Extremes 22°; 86°. Precipitation 0.01 in.

Days suitable for fieldwork 6.0. Soil moisture 27% very short, 46% short, 27% adequate. Corn, 17% poor, 42% fair, 41% good; 82% harvested. Tobacco, good; 100% harvested. Hay, 4% very poor, 36% poor, 43% fair, 17% good; 97% second cutting, 88% third cutting. Wheat, 26% sown. Apples poor. Pastures, 19% very poor, 49% poor, 19% fair, 13% good; 57% of normal. Cattle, good, Sheep, fair. Activities: General maintenance, fencing, cutting hay, harvesting corn, chopping silage, harvesting tobacco, apples, planting wheat, marketing livestock.

WISCONSIN: Temperature 50°, 6° above normal. Extremes 27°; 79°. Precipitation 0.40 to 2.70 in. Rains toward the weekend slowed harvest, helped replenish soil moisture.

Days suitable for fieldwork 3.9. Soil moisture 17% short, 75% adequate, 8% surplus. Pasture condition 77% of normal, 84% 1990, 76% avg. General condition of crops 9% fair, 83% good, 8% excellent. Corn for grain 69% harvested, 25% 1990, 52% avg. Yields are reported anywhere from fair to excellent. Corn silo filling 96% complete, 90% 1990, 92% avg. Soybeans 88% harvested, 60% 1990, 70% avg. Fall tillage 41% complete, 27% 1990, 35% avg.

WYOMING: Temperatures near normal. Precipitation above normal west, northwest, below normal elsewhere.

Corn, sugarbeet harvest continuing. 1992 winter wheat fair to good. Livestock good to excellent. Livestock movement to winter ranges, markets continuing.

International Weather and Crop Summary

HIGHLIGHTS

October 20 - 26, 1991

USSR ... Widespread, significant rain improves topsoil moisture for winter grain establishment but interrupts the corn harvest.

EUROPE ... Dryness favors harvesting in the west, while showers help winter crops in the northeast. Cold air moves into the region.

EASTERN ASIA ... Dryness stresses newly planted winter wheat in the North China Plain. Dry weather favors late rice maturation and harvesting across southern China.

SOUTHEAST ASIA ... Continuing rains in Indochina increase reservoirs but cause more flooding. Typhoon Ruth threatens the northern Philippines.

SOUTH ASIA ... Mostly dry, warm weather favors summer crop maturation and planting of dry season crops.

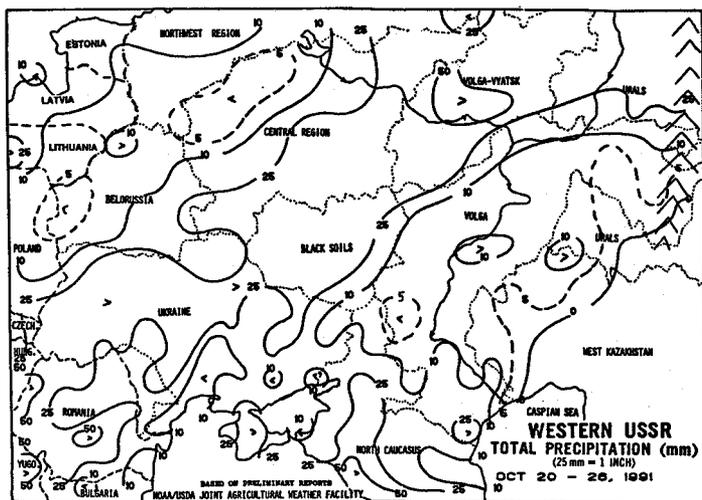
SOUTH AMERICA ... Beneficial moisture aids summer crop sowing in eastern Argentina and southern Brazil. South-central Brazil needs additional moisture for continued adequate coffee and citrus flowering.

AUSTRALIA ... Dryness delays summer crop planting and stresses winter grains and sugarcane.

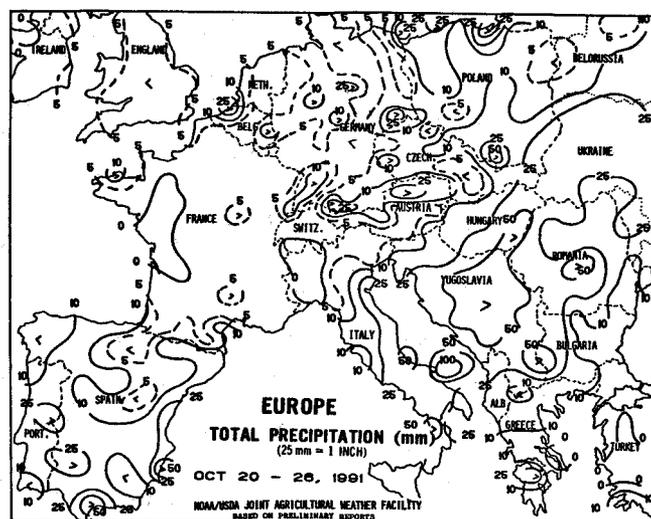
MEXICO ... Scattered rains delay summer crop harvesting.

NORTHWESTERN AFRICA ... Adequate topsoil moisture favors early winter grain planting.

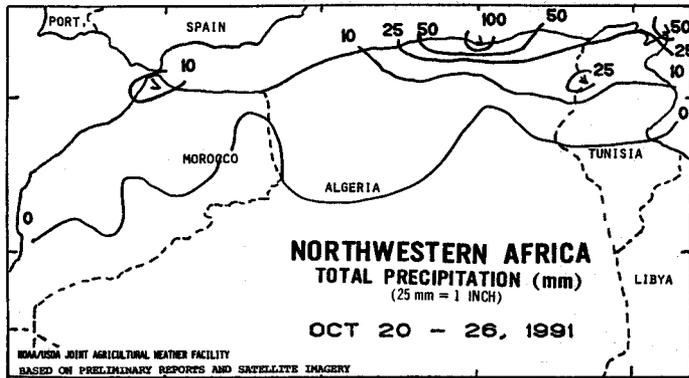
SOUTH AFRICA ... Widespread rain improves corn planting prospects.



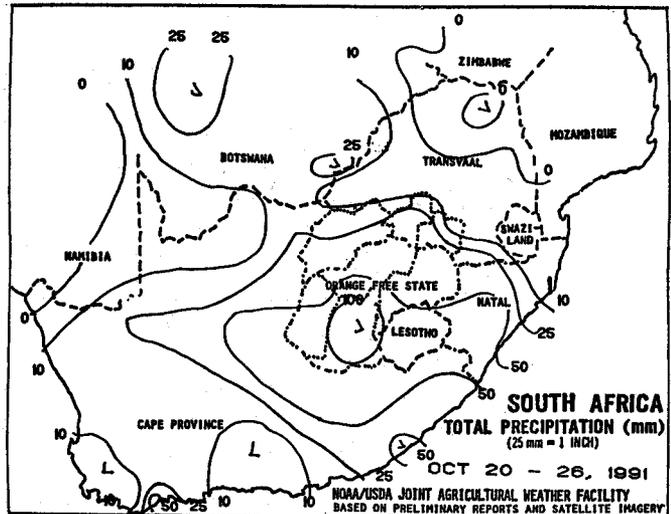
WESTERN USSR ... Several storm systems moved eastward across the region, producing widespread, significant rain. Precipitation amounts in Ukraine, Black Soils Region, and North Caucasus ranged from 12 to 42mm. While the rain in these areas improved topsoil moisture for winter grain establishment, it interrupted the corn harvest. Precipitation tapered off in the east, with grain areas in the lower Volga receiving less than 7mm of rainfall. In the north, soaking rain (25-53mm) in Central and Volga Vyatsk regions continued to provide abundant moisture for winter grains. The storms ushered in colder weather in the west, where rain turned to light snow by week's end. Winter grains continued to harden over the region. Weekly average temperatures of less than 5 degrees Celsius (C) over western Ukraine, Belorussia, and Central Region were low enough to halt further vegetative growth. Weekly average temperatures were 2-4 degrees C below normal in the west and 3-6 degrees C above normal in the east.



EUROPE ... Dry weather favored sugarbeet harvesting in the United Kingdom and France, with mostly light showers (5mm or less) across the Benelux countries and Germany to northern Italy, causing few fieldwork delays. Corn harvesting in France progressed under mostly clear skies. The second consecutive week of drier weather in Italy's Po Valley also favored autumn fieldwork, following the earlier heavy rain. This week's heaviest rainfall (25-78mm) was along the Mediterranean region from the southern Iberian peninsula across southern Italy to southeastern Europe. In the southeast, widespread heavy rain (50-78mm) fell again in Yugoslavia and spread into southern Hungary and western portions of Romania and Bulgaria. Beneficial showers (10-17mm) fell in the northeast, improving topsoil moisture for winter crop establishment in Poland, Czechoslovakia, and Hungary. Unseasonably cold weather pushed into Europe, with weekly temperatures averaging 3-5 degrees C below normal from Spain to Poland. Minimum temperatures dipped as low as 7 degrees C below freezing in Poland. Near- to above-average weekly temperatures were confined to Italy and the southeast.

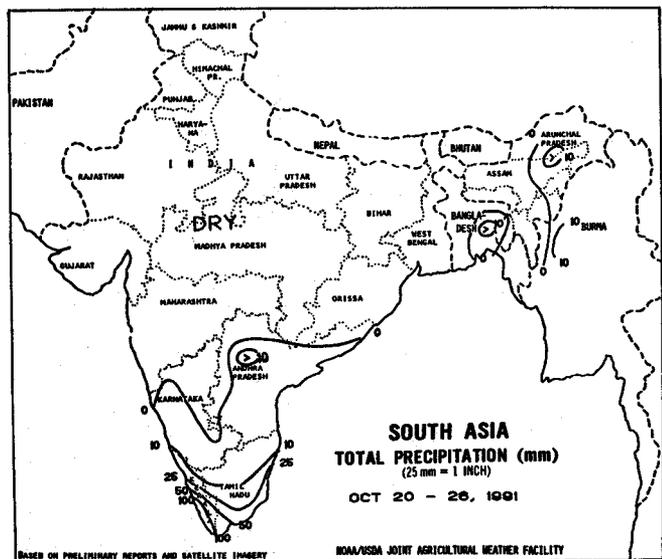


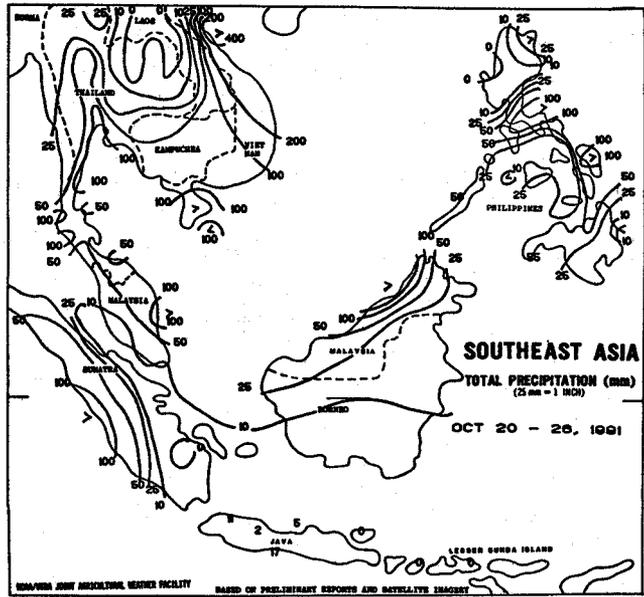
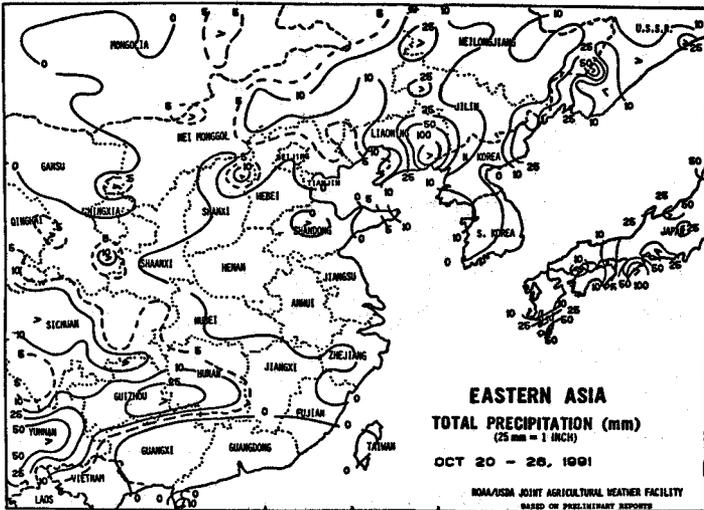
NORTHWESTERN AFRICA ... Preparations for winter grain planting were in the early stages over most of the region. Rain continued over winter grain areas in central and eastern Algeria and Tunisia. Greatest amounts of rain (25-50mm, with local amounts in excess of 100mm) covered northernmost crop areas near the coast, while further south, rainfall ranged from 10 to 25mm. Elsewhere, little, if any, precipitation occurred over winter grain areas in Morocco and western Algeria. Although topsoil moisture was adequate for early winter grain planting over most of the region, the bulk of planting usually occurs from mid-November to mid-December.



SOUTH AFRICA ... Moderate to heavy showers (25-116mm) soaked primary corn areas of the Transvaal and Orange Free State, greatly increasing soil moisture for crop establishment. A few weeks of drier weather are needed for planting activities, usually in full swing during November. Elsewhere, moderate to heavy rain (21-89mm) benefited crop areas in the eastern Cape Province and Natal, while light rain covered much of the southern Cape Province.

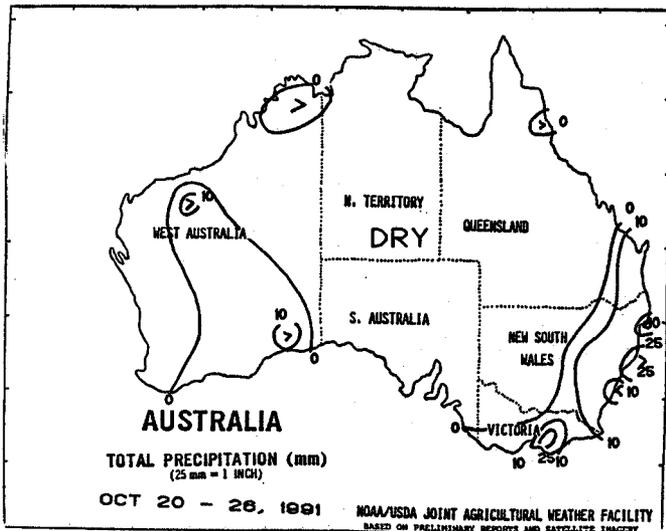
SOUTH ASIA ... Dry, seasonably warm weather benefited maturing summer crops and aided planting activities across the northern winter wheat areas and most grain and oilseed areas of the south and east. However, light to moderate rain (3-32mm) covered fall crop areas of Andhra Pradesh and Tamil Nadu, while heavy showers (65-120mm) covered rice regions of Kerala and Sri Lanka.



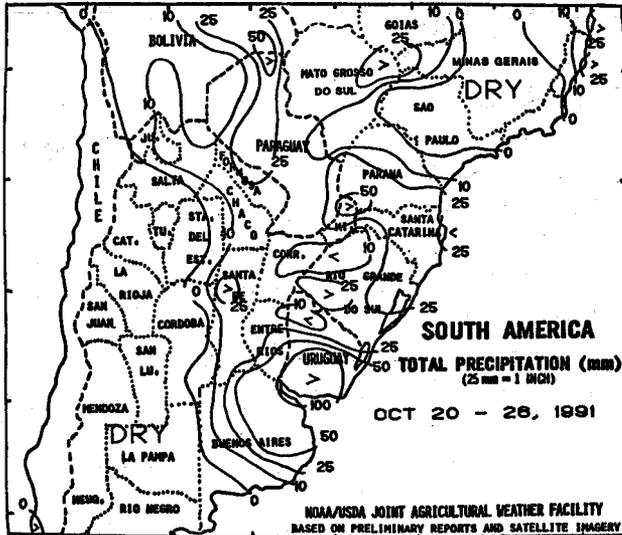


EASTERN ASIA ... Dry weather again prevailed across the North China Plain, delaying winter wheat planting and stressing newly emerged wheat. Early season stress to winter wheat can cause poor establishment and hinder adequate winter hardening. Moderate to heavy rains (23-151mm) fell across southern Manchuria, delaying late-summer crop harvesting. Light to moderate rains (5-48mm) covered southwest China (Sichuan, Guizhou, and Hunan), aiding winter grain germination. Beneficial dry weather across the Yangtze valley and southern China favored late double-crop rice maturation and harvesting.

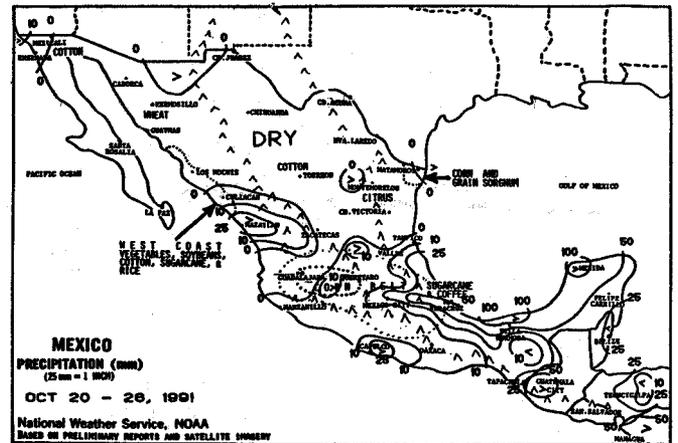
SOUTHEAST ASIA ... Scattered showers (25-100mm or more) continued over Indochina, with 25-111mm along Thailand's Chao Phraya river, increasing irrigation for dry season rice. However, inundating rains (100-300mm, with local reports exceeding 500mm) caused more flooding near Bangkok and in Vietnam from the north-central coast to the Mekong Delta. Flooding from excessive rain (199-252mm) also occurred in eastern Malaysia's northern crop areas, but rainfall elsewhere in Malaysia was generally light to moderate (5-48mm). Rain continued to be unseasonably light over Java, impeding rice planting activities. In the Philippines, Hurricane Ruth was approaching Luzon at week's end with sustained winds of up to 140 knots and made landfall on the 27th, causing some flooding and possible damage to unharvested rice. Northern Luzon reported only light rain for the week, but amounts totaled 50-150mm from southern Luzon to the eastern Visayans.



AUSTRALIA ... Light rains (4-18mm) fell across the extreme eastern wheat areas of Queensland and New South Wales, providing some relief to the drought. However, widespread and heavier rains were needed, thus, crop conditions continued to deteriorate. The remainder of the winter grain areas continued to be dry, stressing reproductive to grain-filling winter wheat. The drought is also delaying eastern cotton and sorghum planting, and stressing pastures and northeast coast sugarcane. Weekly temperatures averaged 1-3 degrees C above normal across the winter grain regions.



SOUTH AMERICA ... Light to moderate rain (12-78mm) fell across eastern Argentina, favoring reproductive to grain-filling winter wheat and providing moisture for corn and soybean planting. Western crop areas, La Pampa and Cordoba, have been tending dry and need moisture for corn and soybeans. The northeastern cotton areas received 14-26mm, boosting soil moisture for cotton germination. In southern Brazil, moderate rain (17-55mm) fell across Rio Grande do Sul to Parana, aiding corn development and soybean germination, but delaying winter wheat harvesting. Further north in Sao Paulo and Minas Gerais, warm and dry weather prevailed, again raising concerns about sufficient moisture for coffee and citrus flowering. Heavy rains fell across southern Uruguay, causing local flooding. Meanwhile, Paraguay received only light rains (6-16mm) where rainfall has been lacking for soybean and cotton planting. Weekly temperatures averaged 1-2 degrees C above normal across central Argentina and 3-5 degrees C above normal in southern Brazil.



MEXICO ... Scattered light rains (3-10mm) caused only minor harvest delays in western portions of the southern Plateau corn belt, while moderate rain (30-87mm) slowed harvesting in the east. Moderate rains (16-50mm) fell in the Yucatan peninsula, aiding grain-filling corn. Dry weather in the northwest favored winter wheat planting and west coast summer crop harvesting.

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(Continued from front cover)

northern Plains. Accumulations exceeded a foot in parts of the **northern and central Rockies** and reached 10 inches in **southern North Dakota.** Wednesday's minimum temperature reached a daily record 20° F in **Spokane, WA.** Heavy rain developed in the warm air in advance of the storm. Nearly 6 inches of rain soaked **Laurel, MS,** on Tuesday, and heavy thunderstorms dotted the **Mississippi Valley** on Wednesday. Rainfall intensified toward week's end, resulting in widespread flooding from **Dallas, TX,** to **Fayetteville, AR.** Maximum rainfall totals surpassed 7 inches in **Texas** and 10 inches in **Oklahoma.** Heavy rain also drenched the **Great Lakes States.** Rain was welcomed in **eastern Kansas,** where

nearly dry weather had prevailed for more than a month. Warm air surged into the **East,** setting more than 40 daily record highs after midweek, including readings of 86° F in **Huntington, WV,** and 77° F in **Buffalo, NY.** The second storm tore into the **Northwest** on Friday, spreading beneficial rains into **California.** Rainfall totals neared 6 inches along the western slopes of the **Sierra Nevada.** **Lake Tahoe, CA,** reported a 1-foot snowfall. By late Saturday, precipitation shifted into **southern California** and the **Great Basin,** while significant rain continued from **Texas** to **Michigan.** Elsewhere, unusually mild weather continued in the **East,** but the coldest air of the season was poised to enter the **Northwest.**

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