

WEEKLY WEATHER AND CROP BULLETIN

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

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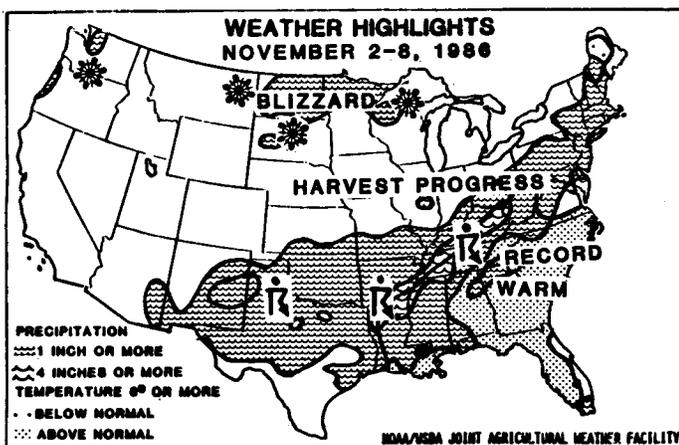
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National Weather Summary

November 2 to 8, 1986



Very cold weather covered the eastern part of the northern Plains and the upper Mississippi Valley.

WEDNESDAY...Moderate showers reached from Kentucky through New Jersey, and lighter rain or showers covered the lower Mississippi Valley, the Ohio Valley, and the East Coast States from the Carolinas northward. A mixture of freezing rain and snow fell from northern Pennsylvania and New Jersey northward. Temperatures in the teens covered the interior portions of the Northeast. Light snow fell in the northern Plains.

THURSDAY...The line of showers was much lighter and reached from eastern Texas through the central Appalachians and from New Jersey northward. Snow fell in New England. A strengthening winter storm in the West moved into the central Rockies and spread snow at the higher elevations of the Rockies and the Northwest.

FRIDAY...The powerful winter storm moved out of the Rockies toward the northern Great Plains and spread heavy snow from Nebraska through the Dakotas and Minnesota. Roads were closed and communities were isolated by the heavy blowing snow. Elsewhere, gulf moisture moving northward contributed to the triggering of heavy showers and thunderstorms from the central and southern Plains through New England and the mid-Atlantic States.

SATURDAY...The blizzard continued in the northern Plains as the intense storm moved into Canada. Sixteen inches of snow on the ground was a record for November at Bismark, North Dakota. Snowfall lightened as the day ended, but high wind continued as temperatures dropped into the teens. Showers and thunderstorms continued from eastern Texas and Oklahoma through the Northeast. Heavy showers fell from central Mississippi to southern New England.

HIGHLIGHTS: Moderate showers again covered most of Oklahoma where soils were already excessively wet. The moderate showers also covered northern Texas, eastern New Mexico, and from the lower Mississippi Valley to New England. Heavy showers fell from southeastern Arkansas to eastern Kentucky. An intense winter storm moved northeastward out of the central Rockies and dumped very heavy snow on North Dakota and Minnesota before moving into Canada. High wind, low temperatures, and heavy snow created blizzard conditions that closed most roads and isolated many communities. Record-warm weather dominated the Southeast, but some very cold weather was over the northern Plains and the Northeast.

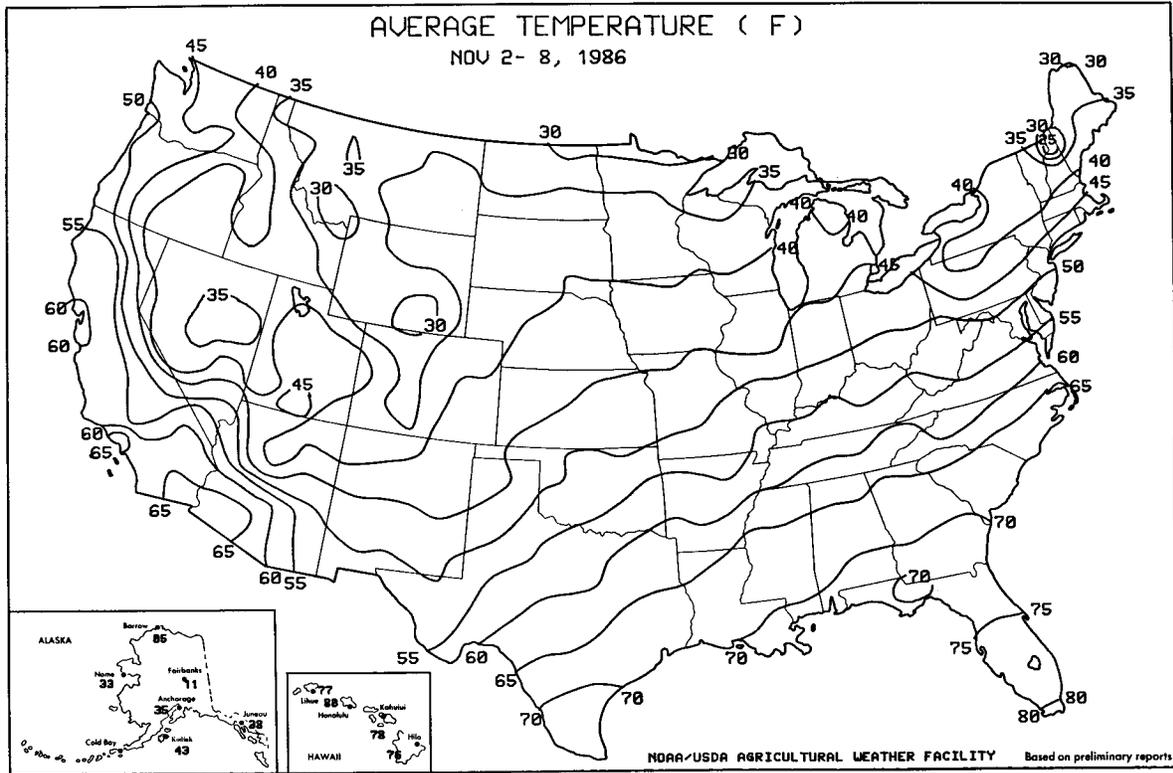
SUNDAY...Moderate to heavy snow fell as rain at the lower elevations of New Mexico while freezing rain stressed livestock from the western Texas Panhandle into western Kansas. Light rainshowers fell along the gulf coast, the east coast, and throughout the Northeast. Cooler weather continued in the northern Great Plains and spread into the Great Lakes region.

MONDAY...Moderate to heavy rainshowers fell in nearly all of Oklahoma, western Texas, and southeastern New Mexico. The rain fell on already excessively wet ground in Oklahoma. Lighter showers reached northeastward to Pennsylvania and New York. Freezing weather reached into the northeast, and it warmed in the Plains and the West.

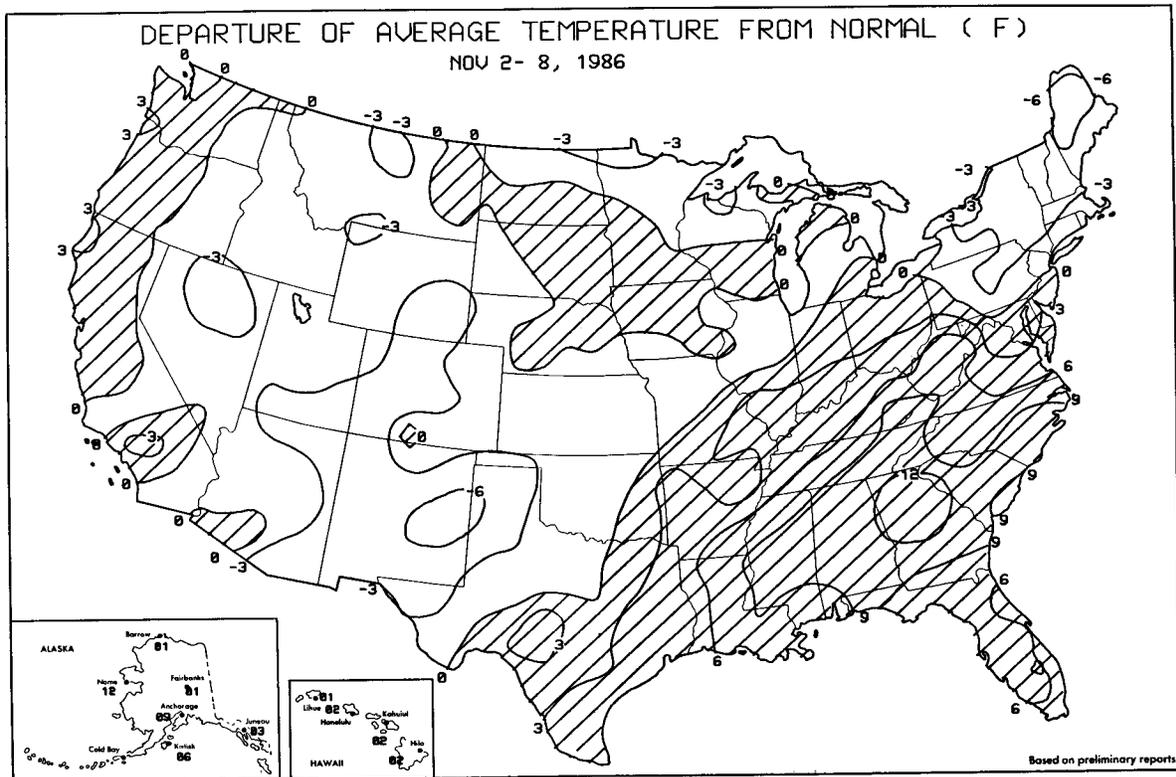
TUESDAY...The area of moderate to heavy thunderstorms moved eastward to eastern Texas and the lower Mississippi Valley. Light to moderate showers still covered Oklahoma and the Texas Panhandle. Lighter showers reached to the middle and lower Appalachians and the mid-Atlantic States.

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Point values may differ on these computerized maps from the reported values in the tables.



Heating Degree Day Summary Table

CLIMATE ANALYSIS CENTER-NMC-NWS-NOAA
ASSESSMENT AND INFORMATION SERVICES CENTER-NESDIS-NOAA

LAST DATE OF DATA COLLECTION PERIOD IS 11- 8-1986
ACCUMULATIONS ARE FROM JULY 1
** = NORMAL LESS THAN 100 OR RATIO INCALCULABLE

Table with columns: STATE CITY, CALL WEEK TOTAL, WEEK DEV FROM, WEEK DEV FROM, CUM TOTAL, CUM DEV FROM, CUM DEV FROM, CUM DEV FROM, CUM DEV FROM. Rows list various cities and their corresponding heating degree day data.

National Weather Data for Selected Cities

Weather Data for the Week Ending November 8, 1986

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	TEMPERATURE		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	75	57	83	50	66	11	.1	-.6	0	10.0	128	31.6	68	96	60	0	0	3	0
MOBILE	78	61	83	54	70	8	1.1	.5	1.1	10.3	104	48.3	86	98	62	0	0	1	1
MONTGOMERY	80	58	87	52	69	11	.2	-.3	.2	8.7	115	39.4	94	98	56	0	0	0	0
AK ANCHORAGE	40	29	48	19	35	9	.1	-.2	.1	7.3	163	16.7	126	92	65	0	5	3	3
BARROW	9	1	19	-5	5	1	T	-.1	T	2.0	162	4.0	91	93	82	0	7	1	0
FAIRBANKS	20	3	37	-12	12	1	T	-.1	T	2.5	125	9.1	100	96	72	0	7	1	0
JUNEAU	42	34	52	18	38	3	8.7	7.3	3.0	25.3	161	59.6	133	76	31	0	3	4	3
KODIAK	49	38	52	30	43	6	2.4	.6	1.0	16.6	84	63.9	101	93	68	0	1	4	2
NOME	37	30	41	24	34	13	.1	-.2	.1	7.9	205	15.5	115	93	70	0	6	2	0
AZ PHOENIX	75	53	81	48	64	0	T	-.1	T	.9	62	6.2	105	54	25	0	0	0	0
PRESCOTT	60	31	67	24	46	-2	T	-.3	T	3.1	102	11.2	69	68	28	0	4	0	0
TUCSON	69	48	77	37	58	-4	.3	.1	.1	1.1	46	10.4	107	83	33	0	0	3	0
YUMA	81	54	85	50	68	0	0	-.1	0	.4	61	1.5	68	55	21	0	0	0	0
AR FORT SMITH	64	49	72	44	57	3	1.5	-.7	1.5	7.6	103	35.6	103	96	65	0	0	2	1
LITTLE ROCK	62	53	66	49	58	2	3.5	2.7	1.8	10.8	144	38.3	99	91	78	0	0	4	2
CA BAKERSFIELD	73	43	81	39	58	-2	0	-.1	0	.1	10	4.3	93	66	25	0	0	0	0
EUREKA	64	48	75	47	56	4	.2	-1.1	.2	4.7	94	32.1	115	90	66	0	0	1	0
FRESNO	74	43	81	36	59	2	0	-.2	0	.4	45	10.1	128	72	27	0	0	0	0
LOS ANGELES	74	55	86	52	65	2	0	-.3	0	1.5	211	14.5	156	85	39	0	0	0	0
REDDING	76	45	87	33	60	-1	0	0	0	3.0	0	3.0	0	70	19	0	0	0	0
SACRAMENTO	74	44	79	38	59	2	0	-.4	0	.7	43	17.0	136	82	21	0	0	0	0
SAN DIEGO	71	55	76	53	63	-1	0	-.2	0	2.4	324	10.1	142	91	51	0	0	0	0
SAN FRANCISCO	71	49	79	47	60	3	0	-.5	0	.5	28	19.1	134	91	35	0	0	0	0
CO DENVER	48	29	64	22	39	-4	.3	.1	.3	2.8	113	11.2	79	93	49	0	4	1	0
GRAND JUNCTION	52	32	57	26	42	-3	.2	0	.1	3.3	187	7.8	111	89	43	0	3	2	0
PUEBLO	55	26	67	17	41	-3	T	-.1	T	1.5	85	9.9	97	100	38	0	7	0	0
CT BRIDGEPORT	53	42	61	34	48	-2	1.0	.2	.6	4.0	53	25.4	73	89	63	0	0	3	1
HARTFORD	51	34	62	25	43	-3	1.8	.9	1.2	4.8	57	34.6	93	90	57	0	3	4	1
DC WASHINGTON	59	46	69	42	52	0	2.2	1.5	1.0	4.9	71	24.6	73	95	74	0	0	5	2
FL APALACHICOLA	77	63	81	55	70	6	T	-.5	T	18.6	149	51.9	105	98	77	0	0	0	0
DAYTONA BEACH	81	65	85	61	73	6	.9	.2	.9	7.9	65	40.5	91	100	69	0	0	1	1
JACKSONVILLE	81	61	87	57	71	8	T	-.5	T	3.8	34	36.7	75	100	61	0	0	0	0
KEY WEST	85	78	85	75	81	4	T	-.8	T	7.2	59	28.9	82	88	70	0	0	1	0
MIAMI	86	74	87	71	80	5	.7	-.2	.6	9.0	55	59.8	111	92	61	0	0	3	1
ORLANDO	85	68	89	66	76	7	0	-.5	0	11.1	123	45.4	102	96	56	0	0	0	0
TALLAHASSEE	80	59	86	50	69	8	T	-.7	T	6.3	61	55.4	97	100	61	0	0	0	0
TAMPA	83	69	88	65	76	7	0	-.4	0	10.1	112	38.0	88	97	59	0	0	0	0
WEST PALM BEACH	85	72	86	69	79	5	.8	-.3	.4	12.9	71	53.0	96	91	64	0	0	3	0
GA ATLANTA	76	60	83	54	68	13	.1	-.6	.1	9.0	139	31.5	75	95	58	0	0	3	0
AUGUSTA	79	59	86	52	69	12	T	-.4	T	4.8	79	34.8	91	100	58	0	0	1	0
MACON	79	60	85	53	70	11	T	-.4	T	7.8	135	28.1	72	99	56	0	0	1	0
SAVANNAH	80	61	86	55	71	10	T	-.4	T	2.5	32	36.4	80	99	62	0	0	1	0
HI HILO	83	69	85	65	76	2	9.5	6.3	5.9	35.6	175	138.2	133	94	67	0	0	6	5
HONOLULU	89	71	93	67	80	3	.3	-.5	.3	3.5	105	8.7	49	88	52	2	0	1	0
KAHULUI	87	69	90	63	78	2	.1	-.3	.1	1.1	63	11.8	78	91	52	2	0	1	0
LIHUE	82	71	85	67	77	1	1.0	-.3	.6	5.8	70	20.4	59	91	66	0	0	4	1
ID BOISE	52	31	63	26	42	-2	.4	.1	.4	3.6	220	13.6	145	95	50	0	5	2	0
LEWISTON	45	36	51	31	41	-2	.5	.3	.3	1.7	88	9.3	89	87	66	0	2	3	0
POCATELLO	48	23	62	20	36	-4	.6	.4	.3	2.3	127	11.9	129	89	47	0	7	3	0
IL CHICAGO	53	35	62	28	44	-1	T	-.4	T	11.0	179	29.4	99	92	51	0	3	2	0
MOLINE	53	35	61	26	44	0	T	-.5	T	10.0	143	37.8	112	90	56	0	3	1	0
PEORIA	51	36	61	29	44	-1	.1	-.4	0	11.1	166	33.6	107	97	66	0	3	3	0
QUINCY	52	39	62	35	45	-1	.5	-.1	.3	15.9	197	38.7	112	95	65	0	0	3	0
ROCKFORD	53	33	61	26	43	0	T	-.6	T	12.4	170	32.6	98	88	54	0	3	0	0
SPRINGFIELD	53	38	63	32	45	-2	.5	0	.4	12.7	208	32.9	108	97	70	0	2	4	0
IN EVANSVILLE	60	49	73	43	54	5	.9	-.2	.5	8.0	135	34.2	96	97	72	0	0	4	1
FORT WAYNE	53	37	69	26	45	1	T	-.6	T	8.1	141	39.4	131	96	61	0	2	2	0
INDIANAPOLIS	54	41	71	31	48	2	.4	-.3	.2	13.9	231	42.7	126	96	66	0	1	4	0
SOUTH BEND	52	35	64	26	44	-1	.1	-.6	.1	8.2	114	32.5	98	93	54	0	2	2	0
IA DES MOINES	53	35	60	29	44	0	.1	-.3	.1	10.5	183	40.8	142	90	55	0	4	1	0
SIoux CITY	53	30	66	24	42	0	.6	-.3	.6	8.2	181	31.5	131	91	47	0	5	1	1
WATERLOO	52	30	59	22	41	0	.1	-.3	.1	8.3	132	34.2	111	93	56	0	6	2	0
KS CONCORDIA	54	35	64	30	44	-2	.4	.1	.3	10.5	204	38.7	151	93	60	0	3	2	0
DODGE CITY	56	34	67	30	45	-2	.6	.4	.3	2.8	82	19.3	98	96	61	0	3	4	0
GOODLAND	50	31	62	21	41	-2	T	-.1	T	12.8	151	15.1	97	93	51	0	3	0	0
TOPEKA	53	39	60	36	46	-2	.6	.2	.4	10.2	149	35.9	116	96	64	0	0	5	0
WICHITA	54	38	61	35	46	-3	.6	.2	.5	8.0	125	30.0	113	94	63	0	0	3	0
KY BOWLING GREEN	60	50	65	43	55	5	5.4	4.6	2.0	11.9	172	30.9	75	99	83	0	0	4	3
LEXINGTON	57	49	65	46	53	4	3.3	2.7	1.4	8.5	134	28.3	72	99	82	0	0	4	2
LOUISVILLE	60	50	69	49	55	5	2.1	1.4	1.0	8.0	117	32.4	87	95	73	0	0	4	2
LA ALEXANDRIA	74	59	84	52	67	6	1.8	.8	1.5	9.0	115	35.3	76	95	64	0	0	4	1
BATON ROUGE	78	61	87	56	70	8	1.9	1.1	1.0	8.2	103	42.5	89	96	60	0	0	4	2
LAKE CHARLES	75	62	83	55	68	6	2.5	1.8	1.2	13.8	144	43.1	96	99	72	0	0	5	3
NEW ORLEANS	78	62	86	56	70	7	.3	-.5	.3	4.6	49	35.2	69	99	67	0	0	1	0

Based on 1951-80 normals.

Weather Data for the Week Ending November 8, 1986

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	TEMPERATURE °F		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
ME SHREVEPORT	71	57	82	49	64	5	3.7	2.9	2.0	13.8	203	48.0	129	97	72	0	0	4	2
ME CARIBOU	38	23	49	15	30	-6	.2	-.5	.1	5.2	71	29.0	94	93	61	0	7	4	1
ME PORTLAND	47	29	56	23	38	-4	1.3	-.2	.8	6.0	72	34.6	97	88	55	0	5	3	0
MD BALTIMORE	58	44	71	39	51	1	2.8	2.1	1.4	5.4	73	25.0	69	96	72	0	0	5	3
MD SALISBURY	65	46	72	40	56	5	.6	-.2	.4	4.2	49	24.3	62	98	65	0	0	5	0
MA BOSTON	52	38	64	30	45	-4	2.0	1.1	1.1	6.4	81	33.9	94	89	58	0	1	4	2
MA CHATHAM	53	43	57	37	48	0	1.2	-.2	.5	8.4	98	41.6	108	85	76	0	0	4	1
MI ALPENA	50	29	66	18	39	0	.1	-.4	.1	10.1	185	29.2	116	92	48	0	6	2	0
MI DETROIT	54	37	69	30	45	1	.2	-.4	.1	11.1	224	33.8	127	95	50	0	2	2	0
MI FLINT	52	34	67	27	43	0	.1	-.5	.1	12.9	255	35.2	138	91	45	0	5	0	0
MI GRAND RAPIDS	52	32	64	24	42	-1	T	-.6	.1	14.8	217	45.8	154	90	48	0	5	1	0
MI HOUGHTON LAKE	48	32	61	19	40	0	.1	-.5	.1	11.4	202	32.6	134	87	52	0	5	1	0
MI LANSING	52	33	66	26	42	-1	T	-.5	.1	11.1	212	35.2	138	94	50	0	5	1	0
MI MARQUETTE	44	27	54	23	35	0	.2	-.5	.1	7.6	95	29.0	89	97	51	0	6	3	0
MI MUSKOGON	51	33	60	27	42	-2	-1	-.6	.1	15.9	246	33.1	124	89	55	0	5	1	0
MI SAULT STE. MARIE	46	29	60	22	38	0	.3	-.4	.2	8.7	114	33.2	116	91	54	0	5	3	0
MN ALEXANDRIA	47	25	54	12	36	0	.3	0	.3	4.9	107	32.6	142	94	59	0	4	1	0
MN DULUTH	42	23	50	11	33	-2	1.6	1.2	.8	8.6	144	35.5	131	94	59	0	6	6	1
MN INT'L FALLS	38	19	48	0	29	-3	1.0	.6	.5	4.0	75	17.6	78	93	57	0	7	6	0
MN MINNEAPOLIS	50	28	58	20	39	0	.2	-.1	.2	8.9	187	35.9	146	92	60	0	5	2	0
MN ROCHESTER	50	26	60	19	38	0	.2	-.2	.1	14.2	256	39.0	148	95	57	0	6	2	0
MS GREENWOOD	74	57	83	50	66	9	3.7	2.8	2.0	11.3	158	31.4	71	98	61	0	0	5	3
MS JACKSON	77	59	86	52	68	10	2.8	2.0	1.6	10.6	149	38.6	87	97	57	0	0	3	2
MS MERIDIAN	76	57	83	51	67	10	1.9	1.3	1.1	9.5	138	37.1	83	99	58	0	0	4	1
MO CAPE GIRARDEAU	61	50	71	44	55	-	1.1	.3	.8	6.8	97	36.9	97	97	74	0	0	3	1
MO COLUMBIA	53	41	65	36	47	-1	.6	0	.3	14.2	187	35.8	109	96	72	0	0	4	0
MO KANSAS CITY	52	39	63	34	46	-2	.5	0	.3	14.0	181	37.3	114	97	59	0	0	5	0
MO SAINT LOUIS	55	46	64	41	50	1	.8	.3	.4	14.2	251	33.1	111	95	72	0	0	5	0
MO SPRINGFIELD	56	45	68	37	50	1	1.6	1.0	1.2	17.3	212	37.7	108	99	80	0	0	4	1
MT BILLINGS	47	30	63	8	38	-1	.7	-.5	.3	2.2	84	13.6	99	82	49	0	4	4	0
MT GLASGOW	43	27	56	6	35	0	.2	-.2	.2	4.9	318	12.9	117	93	61	0	4	2	0
MT GREAT FALLS	46	27	63	4	36	-2	.1	-.1	0	2.5	120	13.3	96	79	49	0	3	3	0
MT HAVRE	41	24	57	4	32	-2	.2	-.1	.2	6.4	390	16.9	163	94	66	0	5	2	0
MT HELENA	45	24	59	4	34	-1	.2	0	.1	2.7	162	11.3	109	84	46	0	5	3	0
MT KALISPELL	41	26	48	13	34	-1	.3	0	.1	3.6	148	15.4	115	98	70	0	7	3	0
MT MILES CITY	48	28	60	5	38	1	.2	0	.2	3.7	175	15.2	116	91	56	0	3	1	0
MT MISSOULA	44	26	52	19	35	0	.2	0	.1	4.1	198	15.1	132	97	60	0	7	4	0
NE GRAND ISLAND	55	31	66	28	43	0	T	-.1	T	7.1	189	24.5	111	92	46	0	5	1	0
NE LINCOLN	55	32	65	25	44	0	.6	-.4	.6	11.8	239	38.1	149	91	51	0	4	1	1
NE NORFOLK	55	31	67	25	43	1	.1	-.1	.1	6.3	170	30.0	132	93	47	0	6	1	0
NE NORTH PLATTE	55	28	65	23	41	2	T	-.1	T	2.7	99	16.6	89	93	46	0	6	0	0
NE OMAHA	53	33	65	29	43	0	.4	0	.4	12.2	208	36.3	128	93	65	0	4	1	0
NE SCOTTSBLUFF	48	26	65	17	37	-3	.1	0	.1	3.4	172	20.7	151	93	48	0	6	1	0
NE VALENTINE	51	25	65	13	38	-1	.2	-.1	.2	5.0	206	20.4	124	81	44	0	6	1	0
NV ELY	51	20	65	10	35	-2	-.1	-.1	-.1	2.7	186	8.3	106	83	33	0	7	1	0
NV LAS VEGAS	70	46	77	39	58	0	0	-.1	0	.1	18	1.4	40	34	15	0	0	0	0
NV RENO	60	24	73	21	42	-1	T	-.1	T	.3	46	8.8	152	79	21	0	7	0	0
NV WINNEMUCCA	56	18	68	10	37	-4	.1	-.1	.1	1.6	147	5.4	84	78	28	0	7	1	0
NH CONCORD	47	28	57	19	37	-4	1.4	.5	.7	5.3	75	32.8	108	92	58	0	6	4	2
NH ATLANTIC CITY	60	41	67	33	51	2	1.9	1.1	1.4	8.2	119	32.8	92	98	72	0	0	6	1
NM ALBUQUERQUE	52	34	60	28	43	-5	.9	.8	.5	3.0	158	12.2	165	90	42	0	2	4	1
NM CLOVIS	53	36	62	33	44	-6	1.9	1.7	1.1	7.6	195	19.5	119	77	46	0	0	4	2
NM ROSWELL	57	36	72	30	47	-6	1.6	1.5	1.0	11.1	399	22.9	249	90	48	0	0	4	2
NY ALBANY	48	30	57	23	39	-5	1.4	.7	.6	6.1	88	36.9	121	96	67	0	6	5	2
NY BINGHAMTON	47	33	57	26	40	-2	1.5	.8	.7	7.3	102	37.7	119	91	66	0	5	5	2
NY BUFFALO	51	35	64	28	43	-1	.4	-.4	.2	8.8	122	33.1	105	94	56	0	2	3	0
NY NEW YORK	55	42	63	36	49	-2	1.3	.5	.5	4.9	63	29.0	80	94	68	0	0	5	2
NY ROCHESTER	51	32	63	26	41	-3	.2	-.4	.1	9.0	153	31.1	116	95	57	0	5	4	0
NY SYRACUSE	51	33	63	25	42	-3	.9	.1	.3	9.7	133	36.7	110	95	59	0	5	5	0
NC ASHEVILLE	67	52	73	45	59	10	.8	0	.6	8.4	104	26.1	62	100	68	0	0	4	1
NC CHARLOTTE	68	54	74	49	61	7	.3	-.3	.2	5.0	71	20.9	56	100	80	0	0	2	0
NC GREENSBORO	66	52	72	45	59	7	1.4	.7	1.1	5.6	75	23.9	64	100	80	0	0	3	1
NC HATTERAS	74	63	81	60	68	10	1.6	.5	.9	3.8	32	39.5	83	98	74	0	0	3	2
NC NEW BERN	76	58	84	48	67	10	.2	-.4	.2	3.3	33	38.2	81	100	68	0	0	1	0
NC RALEIGH	69	54	80	43	61	8	.2	-.4	.2	2.5	37	31.4	86	97	70	0	0	2	0
NC WILMINGTON	76	60	84	50	68	10	.2	-.5	.1	5.2	55	49.9	105	99	67	0	0	2	0
ND BISMARCK	45	25	60	13	35	1	1.7	1.5	.7	6.4	272	23.7	163	95	56	0	6	4	2
ND FARGO	47	22	57	12	35	0	1.3	1.1	.7	5.1	149	23.1	126	93	57	0	7	4	1
ND GRAND FORKS	42	19	54	8	31	-2	1.4	1.2	1.1	4.1	120	15.4	90	93	62	0	4	3	0
ND WILLISTON	40	26	58	15	33	0	.7	.5	.3	4.6	201	21.2	163	97	66	0	4	4	0
OH AKRON-CANTON	54	38	65	29	46	1	.5	-.1	.2	7.2	124	25.7	82	98	69	0	1	5	0
OH CINCINNATI	57	45	67	36	51	4	1.4	.7	.8	8.0	129	28.6	82	95	72	0	0	4	1
OH CLEVELAND	55	38	68	27	47	1	.3	-.3	.2	9.5	157	35.2	115	94	61	0	2	3	0
OH COLUMBUS	56	41	65	29	49	3	.8	.2	.2	8.4	157	30.0	93	96	70	0	1	5	0

Based on 1951-80 normals.

Weather Data for the Week Ending November 8, 1986

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	TEMPERATURE		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
DAYTON	55	42	69	30	48	2	.7	.2	.3	10.2	201	37.7	125	98	74	0	1	4	0
TOLEDO	55	36	71	23	45	2	.1	-.5	.1	9.7	192	33.8	123	96	49	0	3	1	0
YOUNGSTOWN	53	36	66	25	45	1	.5	-.1	.2	9.4	145	40.3	124	99	65	0	2	5	0
OK OKLAHOMA CITY	60	43	69	39	51	-2	2.2	1.8	2.2	19.8	299	41.6	145	96	57	0	0	3	1
TULSA	58	44	67	38	51	-2	1.3	.7	1.3	15.2	179	40.2	115	95	70	0	0	2	1
OR ASTORIA	57	46	67	42	52	4	.6	-1.4	.4	9.7	83	45.4	90	96	67	0	0	4	0
BURNS	53	26	64	21	39	0	T	-1.2	T	2.2	125	9.7	154	65	35	0	7	0	0
MEDFORD	61	35	70	31	48	1	.3	-1.3	.2	4.0	130	14.2	101	98	47	0	2	2	0
PENDLETON	48	38	57	36	43	-1	.2	-1.1	.2	2.3	122	9.8	104	94	67	0	0	3	0
PORTLAND	58	43	64	41	51	3	.6	-.5	.4	6.8	117	25.1	93	97	62	0	0	3	0
SALEM	58	38	63	34	48	1	.4	-1.8	.2	6.2	99	28.7	99	97	58	0	0	2	0
PA ALLENTOWN	53	35	60	26	44	-2	1.9	1.1	.9	6.9	86	34.4	91	96	64	0	2	6	2
ERIE	53	37	67	33	45	0	.3	-.6	.2	13.2	160	40.4	121	93	59	0	0	4	0
HARRISBURG	51	38	59	32	45	-3	1.1	.4	.7	5.4	75	34.6	104	99	70	0	1	5	1
PHILADELPHIA	57	42	67	35	50	0	2.5	1.7	1.2	7.0	99	30.7	86	97	67	0	0	6	2
PITTSBURGH	55	39	70	28	47	2	1.7	1.2	.8	6.9	117	31.7	99	88	64	0	1	4	2
SCRANTON	49	32	58	24	41	-4	.9	.2	.4	6.6	95	39.1	129	92	66	0	4	5	0
RI PROVIDENCE	53	39	66	31	46	-1	1.5	.5	.9	4.9	59	33.7	89	93	65	0	2	4	1
SC CHARLESTON	76	61	85	50	68	9	T	-.5	T	7.7	92	39.2	84	100	71	0	0	1	0
COLUMBIA	77	58	84	49	67	11	T	-.5	T	6.8	92	25.7	59	100	61	0	0	1	0
FLORENCE	76	60	84	47	68	10	1	-.4	.1	5.7	81	25.1	64	98	64	0	0	1	0
GREENVILLE	69	56	75	53	63	9	1.2	.5	1.0	10.1	117	31.2	71	99	72	0	0	3	1
SD ABERDEEN	48	23	59	16	36	0	.6	.4	.6	3.5	133	25.5	151	94	56	0	6	1	1
HURON	50	28	61	22	39	1	1	-.2	1	4.5	151	26.9	152	93	58	0	6	1	0
RAPID CITY	49	24	65	12	37	-3	.9	.8	.5	5.7	284	21.0	135	92	49	0	6	2	0
SIOUX FALLS	50	29	60	20	40	1	.4	.1	.4	10.8	235	29.9	132	90	57	0	6	1	0
TN CHATTANOOGA	72	55	80	45	63	11	.9	0	.7	13.4	164	30.9	70	99	61	0	0	4	1
KNOXVILLE	70	54	81	43	62	10	.5	-.3	.3	7.9	120	25.2	63	100	62	0	0	3	0
MEMPHIS	66	55	73	51	60	5	3.5	2.6	1.6	8.4	121	29.6	68	100	83	0	0	4	3
NASHVILLE	64	53	71	46	58	6	3.9	3.2	2.9	8.3	117	24.7	60	97	77	0	0	4	2
TX ABILENE	66	47	77	41	57	-1	1.0	.6	.9	10.2	175	27.6	128	93	51	0	0	2	1
AMARILLO	53	36	66	32	45	-5	1.5	1.3	.7	5.0	150	24.4	133	91	58	0	1	3	2
AUSTIN	72	56	78	47	64	2	.6	0	.5	13.3	175	28.0	100	95	62	0	0	4	0
BEAUMONT	75	61	83	50	68	5	3.7	2.8	2.9	14.5	134	49.4	110	98	72	0	0	4	1
BROWNSVILLE	82	65	88	60	73	3	.2	-.2	.1	6.5	70	17.9	77	98	59	0	0	3	0
CORPUS CHRISTI	79	65	86	59	72	4	T	-.4	T	6.9	70	23.9	86	94	64	0	0	1	0
DEL RIO	71	57	80	47	64	1	.1	-.1	.1	9.3	176	22.5	139	83	70	0	0	4	0
EL PASO	62	41	67	34	52	-3	1.1	1.0	.7	2.4	107	10.6	147	92	48	0	0	2	1
FORT WORTH	67	50	75	42	59	-1	.6	.2	.6	7.0	112	27.4	103	95	61	0	0	1	1
GALVESTON	76	63	81	48	70	4	1.1	.5	.6	13.2	144	28.5	84	95	72	0	0	4	1
HOUSTON	73	59	85	47	66	3	.9	.2	.7	11.4	120	33.5	87	97	71	0	0	4	1
LUBBOCK	57	39	69	33	48	-4	1.5	1.3	1.3	11.3	273	25.0	147	97	61	0	0	3	1
MIDLAND	66	44	74	37	55	-1	1.4	1.2	1.3	15.8	427	28.6	222	95	53	0	0	3	1
SAN ANGELO	68	47	77	38	58	0	1.2	.9	1.1	14.5	268	29.8	176	93	50	0	0	2	1
SAN ANTONIO	72	56	78	49	64	2	.4	-.2	.3	9.8	134	34.2	131	95	61	0	0	3	0
VICTORIA	76	60	86	53	68	3	.3	-.2	.3	10.6	105	32.4	98	96	67	0	0	2	0
WACO	70	51	79	43	61	0	1.7	1.2	1.6	10.7	155	30.4	111	97	69	0	0	4	1
WICHITA FALLS	65	45	77	39	55	-1	1.4	1.0	1.3	12.5	192	31.9	130	95	56	0	0	3	1
UT BLANDING	50	29	58	18	39	-3	T	-.2	T	4.8	184	14.4	147	97	59	0	4	1	0
CEDAR CITY	51	26	63	22	39	-5	T	-.2	T	2.3	122	10.4	117	86	35	0	7	2	0
SALT LAKE CITY	52	31	63	29	42	-2	.6	.3	.5	3.8	160	18.8	145	88	40	0	6	3	0
VT BURLINGTON	46	30	57	19	38	-3	.6	-.1	.2	8.1	121	36.7	126	92	58	0	5	5	0
VA NORFOLK	67	54	78	45	61	6	.2	-.6	.1	2.0	24	21.6	54	98	71	0	0	4	0
RICHMOND	63	47	73	42	55	3	.6	-.2	.3	3.7	45	29.5	77	98	68	0	0	3	0
ROANOKE	63	46	73	39	55	5	1.5	.8	.8	7.9	108	26.7	78	100	72	0	0	3	2
WA COLVILLE	45	33	48	23	39	2	.3	-.1	.2	4.3	171	19.2	142	98	76	0	3	2	0
QUILLAYUTE	56	38	62	32	47	2	.4	-.7	.2	9.4	49	74.6	96	100	71	0	1	4	0
SEATTLE-TACOMA	50	43	52	39	47	0	.6	-.6	.6	6.7	99	27.3	98	97	81	0	0	3	1
SPOKANE	41	30	47	20	35	-3	.6	.2	.3	2.6	117	12.8	102	98	72	0	4	3	0
YAKIMA	51	34	56	21	43	1	T	-.2	T	2.5	241	7.8	132	92	56	0	4	0	0
WV BECKLEY	60	49	71	44	55	9	1.3	.7	.7	8.5	129	32.8	89	97	76	0	0	6	1
CHARLESTON	59	51	68	49	55	6	2.9	2.3	1.6	8.7	136	37.9	102	100	86	0	0	4	2
HUNTINGTON	58	51	64	48	54	5	4.2	3.5	2.6	9.8	159	33.3	94	98	83	0	0	5	2
PARKERSBURG	58	46	66	39	52	4	2.3	1.7	1.4	9.2	165	32.4	89	99	78	0	0	5	2
WI GREEN BAY	50	28	58	23	39	-1	T	-.4	T	9.5	165	29.6	117	95	53	0	5	1	0
LA CROSSE	52	30	58	22	41	0	.4	0	.4	11.9	199	31.1	111	89	49	0	5	2	0
MADISON	51	29	59	22	40	0	T	-.4	T	8.8	151	30.2	108	92	50	0	4	1	0
MILWAUKEE	52	34	60	28	43	1	T	-.4	T	9.6	171	40.0	146	85	52	0	5	1	0
WAUSAU	47	27	55	21	37	-1	.1	-.3	.1	13.0	197	30.1	103	90	56	0	5	1	0
WY CASPER	44	22	58	8	33	-4	.9	.7	.6	4.8	258	15.2	145	95	51	0	7	3	1
CHEYENNE	43	26	55	13	34	-4	.1	0	.1	4.6	241	14.0	111	91	47	0	6	2	0
LANDER	47	22	66	10	35	-1	.5	.3	.4	3.8	165	11.3	93	80	40	0	7	2	0
SHERIDAN	47	23	62	8	35	-2	.9	.7	.4	4.5	177	14.9	110	95	55	0	7	3	0
PR SAN JUAN	85	75	87	73	80	0	2.1	.8	.8	12.8	98	47.3	105	97	71	0	0	6	2

Based on 1951-80 normals.

October Weather Summary

HIGHLIGHTS: As the month began, thunderstorms triggered torrential rain from north-central Texas through Oklahoma, and to west central Missouri. The storms caused extensive widespread flooding that halted fieldwork. Subsequent thunderstorms kept the ground wet until the last week of the month, when some fieldwork resumed. Monthly rainfall totals were in excess of 10 inches through much of this area. It was also excessively wet from Nebraska into Iowa and from southern Illinois to Ohio. Thunderstorms brought welcome rain to much of the drought area in the Southeast, but most of the dry areas in the mid-Atlantic States remained dry. The rainy season had begun in the Northwest, but rainfall was far less than normal. Although there were some very cold mornings in the northern Plains and Great Lakes region, and some hot days in the Southeast, average temperatures were near normal for the month.

At the beginning of the month, a line of intense thunderstorms, bearing torrential rain, reached from southwestern Texas to the lower Great Lakes States. Severe flooding resulted in Texas, Oklahoma, and Missouri.

FIRST WEEK...The heaviest thundershowers were across the South from Texas to Georgia and South Carolina. Torrential rain caused severe flooding in south-central Texas to expand the saturated area. Later, another line of thunderstorms formed from east-central New Mexico to the western Great Lakes region. Heavy rain fell on already saturated soils. Snow fell in the western mountains and cooler air spread over all but southwestern and northwestern United States.

SECOND WEEK...The southern and central Great Plains had a respite from the heavy rain and began drying out. Rain was concentrated from southeastern Texas to the mid-Atlantic States. This time the rain was beneficial, falling in a previously dry area. However, the southeastern coast and Florida had little rain. Cool air spread over most of the Nation.

THIRD WEEK...Hurricane Roslyn, in the Pacific, spewed moisture across Mexico to fuel thunderstorms from the eastern part of the central and southern Plains to the Mississippi Valley and southern Appalachians. More heavy rain fell in Oklahoma ending their brief respite from the rain. Good harvest weather prevailed in the northern Plains, the eastern Corn Belt, and the Northeast. Mild temperatures covered most of the Nation.

FOURTH WEEK...Warm, dry weather prevailed over the Nation allowing full harvest to progress rapidly. Some areas had to wait for fields to dry before resuming work. Showers fell in the coastal area of the Northwest, and snow fell in the Cascades and northern and central Rockies. A few thundershowers fell in southern Texas, and showers were all along the east coast.

Winter Wheat Seeding

Heavy rain and wetness restricted winter wheat seeding in the Corn Belt and southern Great Plains during most of October. Early to mid-month rain hampered seeding in the central Great Plains. Dryness caused some seeding delays in the

Southeast. Seeding surged in the Corn Belt the last 7 to 10 days of the month but for the most part seeding was still behind normal as the month closed. In the 20 major producing States, planting was 84 percent finished by November 2 compared with 82 percent last year and the 87 percent average. Seventy-seven percent of the acreage was emerged, 1 point ahead of normal. Winter wheat was mostly good except in the Southeast and in Michigan where condition was fair. Ample moisture provided good growth and germination in the Great Plains and Delta.

In Kansas, seeding at 90 percent completion was 5 points behind normal. Planting was 75 percent finished in Oklahoma, trailing the normal pace by 10 points. Seeding was 1, 2, 12, 19, and 30 points behind normal in Illinois, Indiana, Ohio, Missouri, and Michigan, respectively. Ninety-two percent of Montana's acreage was seeded, 5 points below the 97 percent average. Seeding was complete in Nebraska, New Mexico, South Dakota, and Washington and neared completion in Colorado and Idaho, at months' end. In Texas, winter wheat was 88 percent seeded compared with 79 percent average. Rust and greenbugs invaded many fields near the end of October.

Crop Production Highlights

CORN FOR GRAIN production is forecast at 8.22 billion bushels, down 7 percent from last year's record high crop but virtually the same as October 1. The 90 percent confidence interval for this production forecast is 7.85 to 8.59 billion bushels.

SORGHUM GRAIN production is forecast at 900 million bushels. This is 19 percent less than the 1985 crop but 1 percent more than the October 1 forecast.

SOYBEAN production is forecast at 2.01 billion bushels, up 1 percent from October 1 but 4 percent below last year. The 90 percent confidence interval for this production forecast is 1.91 to 2.11 billion bushels.

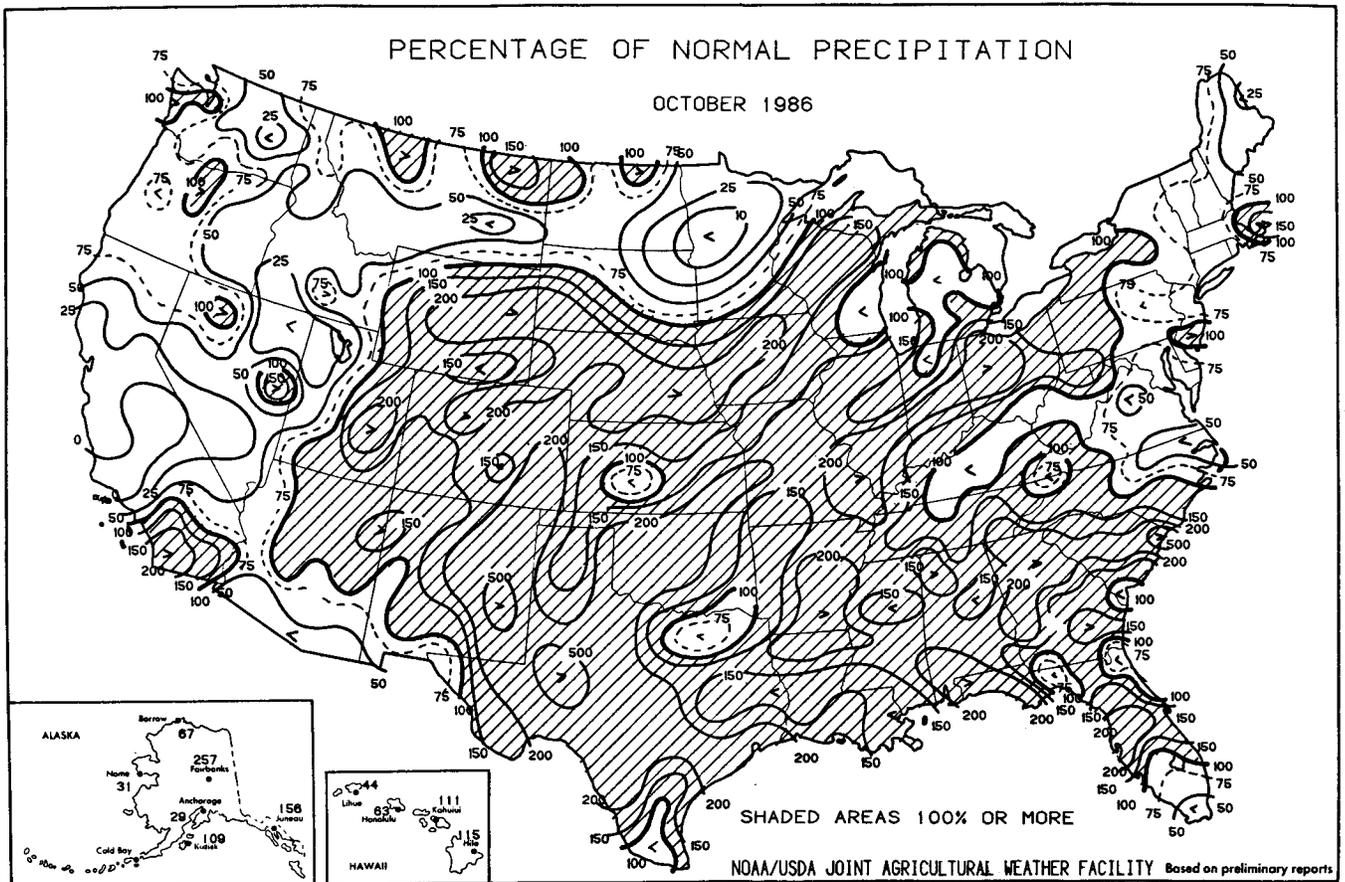
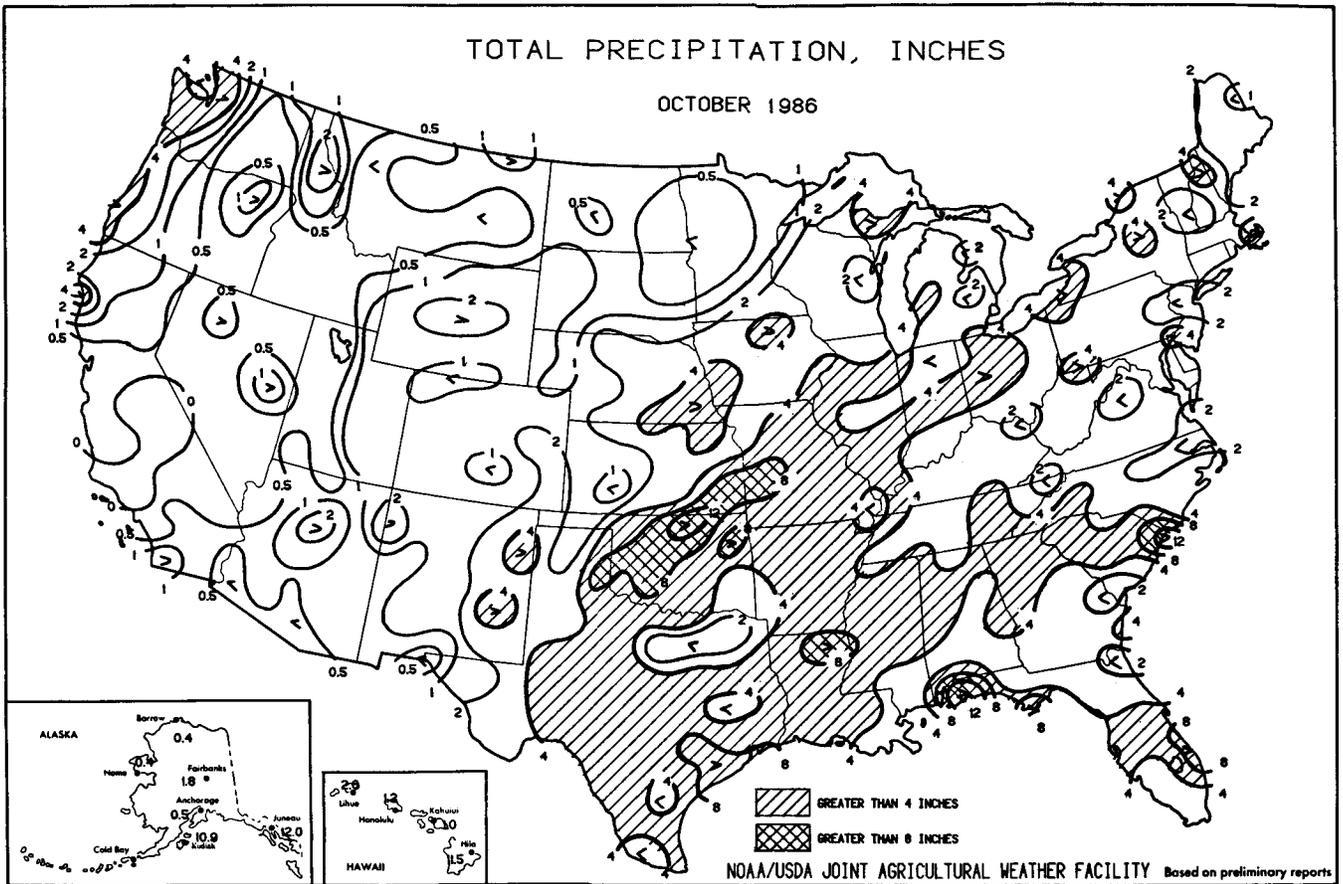
ALL COTTON production is forecast at 9.87 million bales, a decline of 1 percent from October 1 and 26 percent below the 1985 crop. The 90 percent confidence interval for this production forecast is 9.2 to 10.5 million bales.

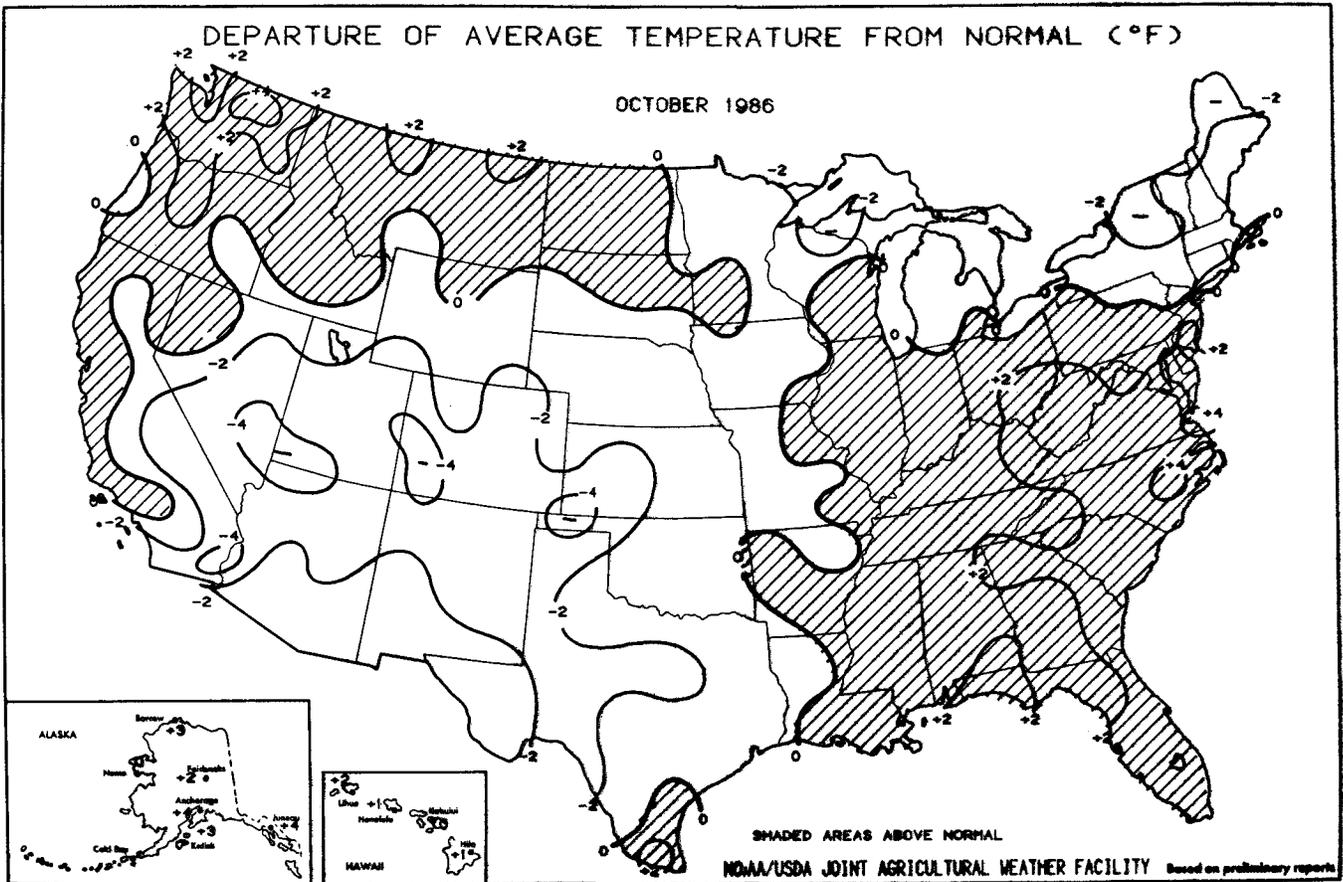
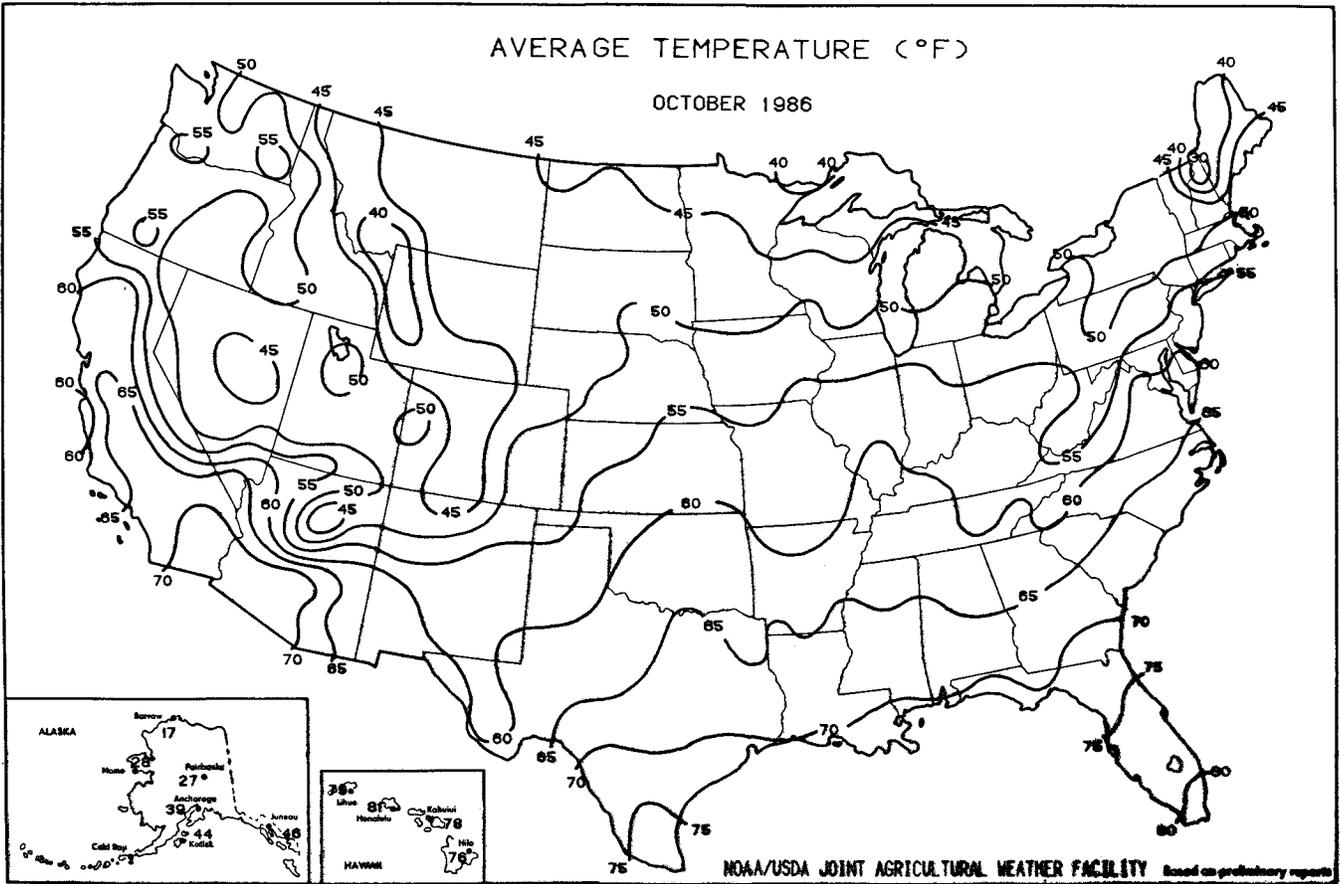
PEANUT production is expected to total 3.45 billion pounds, 16 percent below 1985 production but up 2 percent from the October 1 forecast.

ALL TOBACCO production is forecast at 1.19 billion pounds, off 2 percent from the October 1 forecast and the smallest crop since 1936.

FALL POTATO production is forecast at 308 million cwt, down 13 percent from last year and 2 percent below 2 years ago.

DRY BEAN production is forecast at 22.7 million cwt, up 2 percent from last year and 8 percent above 1984.





Temperature and Precipitation Data for October 1986

States and Stations	Temperature °F		Precipitation Inches		States and Stations	Temperature °F		Precipitation Inches		States and Stations	Temperature °F		Precipitation Inches	
	Average	Departure	Total	Departure		Average	Departure	Total	Departure		Average	Departure	Total	Departure
AL BIRMINGHAM	64	1	5.9	3.3	LA ALEXANDRIA	67	-1	4.6	0.6	COLUMBUS	56	2	4.2	2.3
MOBILE	68	0	4.8	2.2	BATON ROUGE	69	1	4.4	1.8	DAYTON	55	1	6.3	4.3
MONTGOMERY	67	1	3.5	1.2	LAKE CHARLES	69	0	5.0	1.5	TOLEDO	53	1	4.8	2.8
AK ANCHORAGE	39	4	4.1	2.4	NEW ORLEANS	70	1	2.9	0.3	YOUNGSTOWN	52	1	3.1	0.4
BARROW	16	2	0.4	-0.1	SHREVEPORT	65	-1	6.6	4.0	OK OKLAHOMA CITY	62	-1	8.0	5.3
FAIRBANKS	27	2	1.8	1.1	ME CARIBOU	41	-2	1.4	-1.7	TULSA	61	-2	5.5	2.1
JUNEAU	46	4	12.0	4.3	PORTLAND	48	-1	2.1	-1.7	OR ASTORIA	55	2	5.5	-0.7
KODIAK	44	3	10.9	0.9	MD BALTIMORE	59	2	1.9	-1.3	BURNS	47	-1	0.1	-0.6
NOME	28	0	0.4	-0.9	MA SALTISBURY	60	2	2.0	-1.7	MEDFORD	56	1	1.5	-0.2
AZ FLAGSTAFF	44	-3	2.2	0.7	MA BOSTON	54	-1	3.3	-0.1	PENDLETON	54	2	0.8	-0.1
PHOENIX	75	1	0.4	-0.2	CHATHAM	54	0	5.7	2.0	PORTLAND	57	3	2.0	-1.1
PRESCOTT	53	-2	1.2	0.0	MI ALPENA	46	-1	2.8	0.8	SALEM	54	1	2.7	-0.6
WINSLOW	54	-3	1.1	0.2	DETROIT	52	0	3.1	1.0	PA ALLENTOWN	54	0	1.9	-1.2
TUCSON	70	-1	0.5	-0.4	FLINT	50	-1	2.0	-0.2	ERIE	53	2	4.8	1.5
YUMA	75	-1	T	-0.3	GRAND RAPIDS	50	-1	2.8	-0.1	HARRISBURG	56	1	2.6	-0.1
AR FORT SMITH	63	0	4.2	1.0	HOUGHTON LAKE	47	0	1.8	-0.5	PHILADELPHIA	58	1	2.2	-0.6
LITTLE ROCK	63	0	6.4	3.6	LANSING	50	-1	2.6	0.5	PITTSBURGH	54	2	2.9	0.4
CA BAKERSFIELD	66	-2	0.0	-0.3	MARQUETTE	42	-2	4.5	1.3	SCRANTON	51	-1	2.6	-0.2
EUREKA	56	1	1.8	-1.0	MUSKEGON	49	-2	2.2	-0.6	RI PROVIDENCE	53	0	2.5	-1.3
FRESNO	67	2	0.0	-0.4	SAULT STE. MARI	44	-1	3.2	0.3	SC CHARLESTON	69	3	3.0	0.1
LOS ANGELES	66	0	0.1	-0.2	MN ALEXANDRIA	47	0	0.2	-1.7	COLUMBIA	65	2	6.1	3.5
REDDING	64	-2	0.8	-1.2	DULUTH	43	-1	0.7	-1.6	FLORENCE	66	2	4.3	1.9
SACRAMENTO	65	1	0.2	-0.7	INT'L FALLS	41	-2	0.6	-1.1	GREENVILLE	62	1	6.1	2.6
SAN DIEGO	66	-2	1.4	1.1	MINNEAPOLIS	49	0	1.8	-0.1	SD ABERDEEN	47	-1	0.2	-0.8
SAN FRANCISCO	61	1	T	-1.0	ROCHESTER	48	-1	3.6	1.5	HURON	49	0	0.4	-1.0
CA STOCKTON	65	0	T	-0.6	ST. CLOUD	46	-1	0.4	-1.7	RAPID CITY	49	-1	1.6	0.8
CO DENVER	49	-3	1.8	0.8	MS GREENWOOD	65	1	5.6	2.8	SIoux FALLS	49	-1	1.2	-0.4
JACKSON	51	-4	1.2	0.3	JACKSON	66	1	5.1	2.5	TN CHATTANOOGA	62	2	6.7	3.7
GRAND JUNCTION	51	-3	0.9	0.1	MERIDIAN	65	1	5.0	2.4	KNOXVILLE	60	1	3.9	1.1
PUEBLO	55	-1	2.2	-1.2	MO COLUMBIA	57	0	6.0	2.7	MEMPHIS	64	1	3.7	1.4
CT BRIDGEPORT	55	-1	2.2	-1.3	KANSAS CITY	57	-1	3.2	0.1	NASHVILLE	61	1	2.2	-0.4
HARTFORD	51	-1	2.2	-1.3	SAINT LOUIS	58	0	5.4	3.0	TX ABILENE	64	-2	7.5	5.2
DC WASHINGTON	61	2	2.1	-0.8	SPRINGFIELD	57	-1	4.1	0.9	AMARILLO	56	-4	1.9	0.6
FL APALACHICOLA	72	2	9.2	6.0	MT BILLINGS	50	1	0.3	-0.8	AUSTIN	69	-1	8.0	4.6
DAYTONA BEACH	75	2	3.5	-1.2	GLASGOW	48	2	0.9	0.3	BEAUMONT	70	-1	7.4	3.8
FT. MYERS	80	3	3.6	-0.3	GREAT FALLS	50	2	0.9	0.1	BROWNSVILLE	76	1	4.6	1.1
JACKSONVILLE	72	2	1.8	-1.6	HAVRE	47	1	0.4	-0.2	CORPUS CHRISTI	74	0	5.0	1.8
KEY WEST	81	1	2.5	-2.2	HELENA	45	0	T	-0.6	DEL RIO	69	-2	5.4	3.2
MIAMI	80	2	4.0	-3.2	KALISPELL	43	1	0.5	-0.5	EL PASO	62	-1	0.4	-0.3
ORLANDO	77	3	5.6	2.8	MILES CITY	49	1	0.2	-0.7	FORT WORTH	66	-2	1.8	-0.7
TALLAHASSEE	70	1	2.0	-1.1	MISSOULA	45	1	0.4	-0.4	GALVESTON	72	0	9.0	6.4
TAMPA	77	2	6.2	3.9	NE GRAND ISLAND	52	-1	3.3	2.2	HOUSTON	69	-1	6.8	3.1
WEST PALM BEACH	79	2	8.1	0.3	LINCOLN	54	0	5.4	3.7	LUBBOCK	60	-1	2.9	1.1
GA ATLANTA	64	2	5.2	2.7	NORFOLK	52	0	2.6	1.3	MIDLAND	62	-3	7.5	6.1
AUGUSTA	66	3	3.9	1.9	NORTH PLATTE	50	0	1.6	0.7	SAN ANGELO	64	-3	5.7	3.7
MACON	66	1	2.3	0.4	OMAHA	53	0	5.3	3.2	SAN ANTONIO	70	-1	6.6	3.7
SAVANNAH	70	3	2.0	-0.3	SCOTTSBLOFF	49	-2	1.4	0.6	VICTORIA	71	-1	6.8	3.5
HI HILO	76	1	11.5	0.5	VA VALENTINE	49	-1	2.1	1.3	WACO	67	-2	5.1	2.0
HONOLULU	81	1	1.2	-0.7	NV ELKO	46	-2	T	-0.6	WICHITA FALLS	64	-2	4.4	1.8
KAHULUI	77	0	1.0	0.1	ELY	44	-2	1.2	0.6	UT BLANDING	49	-2	1.8	0.4
LIHUE	79	1	2.0	-2.5	LAS VEGAS	65	-3	0.1	-0.2	CEDAR CITY	48	-4	0.9	0.1
ID BOISE	53	1	0.3	-0.4	RENO	51	1	0.1	-0.3	MILFORD	48	-2	0.2	-0.5
LEWISTON	54	2	0.3	-0.7	WINNEMUCCA	49	0	0.7	0.1	SALT LAKE CITY	51	-2	0.4	-0.8
POCATELLO	48	0	0.4	-0.5	NH CONCORD	47	-1	1.7	-1.4	VT BURLINGTON	47	-1	2.5	-0.3
IL CAIRO	61	0	2.8	0.3	NJ ATLANTIC CITY	57	1	3.9	0.8	VA NORFOLK	65	4	1.6	-1.8
CHICAGO	54	0	3.8	1.5	NM ALBUQUERQUE	55	-3	1.5	0.7	RICHMOND	62	3	2.4	-1.3
MOLINE	53	0	4.2	1.5	OH CLOVIS	59	0	3.0	1.2	ROANOKE	59	2	2.8	-0.7
PEORIA	55	1	4.6	2.1	ROSWELL	59	-2	5.5	4.5	WA COLVILLE	48	2	0.9	-0.3
QUINCY	56	1	6.0	2.8	NY ALBANY	49	-2	2.1	-0.9	QUILLAYUTE	52	2	5.4	-5.2
ROCKFORD	52	0	2.4	-0.5	BINGHAMTON	49	0	2.5	-0.6	SEATTLE-TACOMA	55	2	4.2	0.8
SPRINGFIELD	56	0	3.6	1.1	BUFFALO	51	-1	4.3	1.4	SPOKANE	49	1	0.5	-0.6
IN EVANSVILLE	58	1	3.3	0.8	NEW YORK	58	0	1.7	-1.5	WALLA WALLA	56	2	0.9	-0.5
FORT WAYNE	54	1	3.5	0.9	ROCHESTER	50	-2	3.6	1.1	YAKIMA	51	1	0.4	-0.1
INDIANAPOLIS	55	1	7.8	5.3	SYRACUSE	49	-2	3.3	0.2	WV BECKLEY	54	2	3.1	0.6
SOUTH BEND	53	0	3.8	0.6	NC ASHEVILLE	57	1	4.2	0.9	CHARLESTON	58	2	2.2	-0.4
IA DES MOINES	53	-2	3.9	1.7	CHARLOTTE	64	3	3.5	0.8	ELKINS	53	2	2.9	-0.1
DUBUQUE	51	0	3.6	0.7	GREENSBORO	61	3	3.2	0.1	HUNTINGTON	58	2	1.9	-0.5
SIoux CITY	52	-1	2.6	0.8	HATTERAS	68	3	2.1	-2.7	PARKERSBURG	57	1	2.1	0.1
WATERLOO	50	0	3.7	1.3	NEW BERN	67	3	1.9	-1.5	WI GREEN BAY	48	0	1.9	-0.2
KS CONCORDIA	55	-1	3.0	1.2	RALEIGH	63	3	1.3	-1.4	LA CROSSE	51	0	3.7	1.6
DODGE CITY	56	-2	0.9	-0.3	WILMINGTON	67	3	3.4	0.4	MADISON	50	0	1.9	-0.4
GOODLAND	52	-1	1.6	0.7	ND BISMARCK	46	0	0.4	-0.5	MILWAUKEE	52	1	2.2	0.0
TOPEKA	57	0	3.3	0.5	FARGO	45	-1	0.1	-1.2	WAUSAU	47	0	3.8	1.5
WICHITA	58	-2	3.6	1.1	GRAND FORKS	44	-1	0.3	-0.8	WY CASPER	46	-1	2.6	1.7
KY BOWLING GREEN	59	1	2.0	-0.8	WILLISTON	45	0	0.8	0.1	CHEYENNE	45	-3	1.8	1.1
JACKSON	59	4	2.4	0.3	OH AKRON-CANTON	53	1	3.2	1.0	LANDER	46	-1	2.8	1.6
LEXINGTON	58	1	2.1	-0.2	CINCINNATI	56	1	3.1	0.6	SHERIDAN	48	1	1.2	0.0
LOUISVILLE	59	1	3.1	0.5	CLEVELAND	54	1	2.8	0.4	PR SAN JUAN	81	0	8.5	2.6
PADUCAH	60	1	4.5	1.9										

BASED ON 1951-80 NORMALS.

Heating Degree Days (Base 65° F.)

October 1986

ALA. Birmingham . . .	125	MAINE, Caribou . . .	728	OKLA. Okla. City . . .	137
Mobile	43	Portland	523	Tulsa	148
Montgomery	75	MD. Baltimore	236	OREG. Astoria	308
ALASKA, Anchorage . . .	804	MASS. Boston	345	Burns	553
Barrow	1503	Chatham	357	Medford	286
Fairbanks	1168	MICH. Alpena	588	Pendleton	335
Nome	1142	Detroit	380	Portland	242
ARIZ. Flagstaff	661	Flint	444	Salem	345
Phoenix	0	Grand Rapids	452	PA. Allentown	361
Tucson	11	Houghton Lake	557	Erie	350
Winslow	345	Lansing	451	Harrisburg	300
Yuma	0	Marquette	684	Philadelphia	255
ARK. Fort Smith	121	S. Ste. Marie	625	Pittsburgh	346
Little Rock	106	MINN. Duluth	663	Scranton	428
CALIF. Bakersfield . . .	45	Internatl Falls	723	R.I. Providence	380
Eureka	288	Minneapolis	480	S.C. Charleston	56
Fresno	22	Rochester	535	Columbia	110
Los Angeles	15	St. Cloud	580	Greenville	160
Redding	94	MISS. Jackson	79	S. DAK. Aberdeen	540
Stockton	50	Meridian	99	Huron	496
San Diego	10	MO. Columbia	251	Rapid City	497
San Francisco	122	Kansas City	251	Sioux Falls	504
COLO. Denver	50	St. Louis	221	TENN. Chattanooga	148
Grand Junction	477	Springfield	249	Knoxville	197
Pueblo	428	MONT. Billings	457	Memphis	100
CONN. Bridgeport	345	Glasgow	513	Nashville	175
Hartford	422	Great Falls	471	TEX. Abilene	102
D.C. Washington	180	Havre	560	Amarillo	290
FLA. Apalachicola	13	Helena	602	Austin	18
Ft. Myers	0	Kalispell	664	Beaumont	26
Jacksonville	24	Miles City	485	Brownsville	12
Key West	0	Missoula	622	Corpus Christi	11
Miami	0	NEBR. Grand Island	403	Del Rio	19
Orlando	0	Lincoln	344	El Paso	116
W. Palm Beach	0	Norfolk	413	Fort Worth	61
Tallahassee	65	North Platte	446	Galveston	11
Tampa	0	Omaha	352	Houston	28
GA. Atlanta	107	Valentine	511	Lubbock	185
Augusta	82	NEV. Ely	662	Midland	137
Macon	93	Las Vegas	53	San Angelo	96
Savannah	48	Reno	430	San Antonio	14
IDAHO, Boise	376	Winnemucca	490	Victoria	12
Lewiston	338	N.H. Concord	538	Waco	50
Pocatello	519	N.J. Atlantic City	289	Wichita Falls	98
ILL. Cairo	175	N. MEX. Albuquerque	313	UTAH, Milford	532
Chicago	343	N.Y. Albany	495	Salt Lake City	416
Moline	358	Binghamton	480	VT. Burlington	553
Peoria	305	Buffalo	430	VA. Lynchburg	225
Rockford	402	New York	235	Norfolk	88
Springfield	284	Rochester	462	Richmond	172
IND. Evansville	240	Syracuse	468	Roanoke	231
Fort Wayne	351	N.C. Asheville	268	WASH. Colville	511
Indianapolis	312	Charlotte	119	Quillayute	384
South Bend	369	Greensboro	174	Seattle-Tacoma	323
IOWA, Des Moines	378	Hatteras	49	Spokane	488
Dubuque	428	Raleigh	149	Walla Walla	264
Souix City	396	Wilmington	79	Yakima	424
KANS. Concordia	294	N. DAK. Bismarck	580	W. VA. Beckley	347
Dodge City	285	Fargo	602	Charleston	255
Goodland	399	Williston	612	Huntington	246
Topeka	263	OHIO. Akron-Canton	361	WIS. Green Bay	519
Wichita	233	Cincinnati	292	Madison	471
KY. Lexington	250	Cleveland	332	Milwaukee	407
Louisville	210	Columbus	287	WYO. Casper	586
LA. Baton Rouge	31	Dayton	317	Cheyenne	630
Lake Charles	21	Toledo	365	Lander	584
New Orleans	28	Youngstown	381	Sheridan	528
Shreveport	76				

BASED ON 1951-80 NORMALS.

National Agricultural Summary

November 3 to 9, 1986

HIGHLIGHTS: Scattered rain across the eastern half of the Nation hampered harvest and wheat seeding in some States, while drier weather allowed harvest and seeding to flourish in some rain-soaked Corn Belt and Great Plains States. Fieldwork was varied across the Nation. In Missouri, Kansas, Maryland, Virginia, West Virginia, Kentucky, Tennessee, Mississippi, Arkansas, Oklahoma, and Colorado, farmers worked less than 4 days. Most other areas worked 4 to 6 days. Soil moisture was adequate in most areas, but more moisture is needed in the Atlantic Coast and Pacific Coast States.

Winter wheat was 89 percent(%) seeded and 83% emerged. This compares with the 90% 5-year average seeded and the 82% average emerged. Seeding was up 15 percentage points from the previous week in Michigan. Corn harvest gained 14 points from the previous week ending the week 77% finished. Michigan, South Dakota, and Wisconsin made substantial harvest progress. Soybean harvest equaled the 77% average but was 4 points above last year. Harvest increased 9 points mostly because of the open weather in the Corn Belt and central Plains. Cotton was 51% harvested, compared with 53% last year and average. Dry weather and a killing freeze are needed to spur harvest along in Texas and Oklahoma. Sorghum harvest was 5 points below normal. Peanut harvest neared completion in the Southeast. Pastures and livestock were mostly good.

SMALL GRAINS: Wheat and small grains were mostly good except in the Southeast and Delta where conditions were fair to good. Ample moisture continued providing growth in most areas. In the 20 major producing States, seeding was 89% finished, equaling last year but 1 point below normal. Emergence was 1 point ahead of normal, with 83% of the acreage up to stand. Seeding was behind normal in 9 States mostly in the Corn Belt and Rocky Mountain States. Seeding was furthest behind in Michigan and Missouri, 18 and 25 points, respectively. Missouri seeding was only 50% finished and 80% of Michigan's wheat was in the ground. Leaf rust was present in Kansas, but the extent of damage is unknown. Most spores are not expected to survive the winter. Small populations of Russian wheat aphids developed in the southwest Panhandle of Nebraska. Wheat grew well in Oklahoma, but wet weather curtailed planting. In Texas cooler temperatures slowed growth. Excessive moisture caused yellowing in the Low Plains and slowed seeding in most areas.

CORN: Corn harvest surged 14 points from the previous week at 77% completion. This was 6 points ahead of 1985 but 1 point below the 78% average. Harvest was up significantly from the previous week in Iowa, South Dakota, and Michigan, 21, 23, and 25%, respectively. South Dakota's harvest was 22 points behind normal, Missouri 12 points behind, Colorado 14 points behind, and Michigan 10 points behind normal. Harvest was ahead of normal in Georgia, Illinois, Indiana, Kentucky, Ohio, and Pennsylvania.

SOYBEANS: Soybean harvest climbed 9 points ahead of the previous week to 77% completion. This equals the average but was 4 points greater than in 1985. Kansas harvest was 60% finished, compared

with the 80% average. Michigan harvested nearly a third of their acreage but was still 15 points below the average. Half of Missouri's acreage was combined, 18 points below average. Harvest neared completion in Illinois, Indiana, Iowa, Minnesota, and South Dakota.

COTTON: Cotton boll opening was finished or near finishing in all States except Oklahoma and Texas. Excessive moisture caused growth when cotton normally would be opening bolls in these States. In the 14 major producing States, cotton was 51% harvested. Harvest increased 5 points from the previous week but fell 2 points behind last year and the average. Oklahoma's harvest was 3% finished, compared with 20% normally. Harvest lagged 13 points behind the average in Texas. Sixty-three percent of South Carolina's cotton was harvested, compared with the 85% average. Wetness and slow boll opening continued prolonging harvest in Texas and Oklahoma.

OTHER CROPS: Sorghum harvest was 78% complete, compared with 84% last year and 83% average. Harvest was behind normal from Kansas through the central and southern Great Plains. Arkansas, Louisiana, and Mississippi producers had finished harvest.

Peanut harvest continued in the Southeast and in Texas. Harvest was nearing completion in all southeastern States except South Carolina. Harvest was 15 points below the average in South Carolina. Wetness slowed peanut harvest in Texas, but harvest was 6 points greater than the average.

Burley tobacco stripping was active in most States. Stripping was 40% finished in Kentucky and 50% finished in Tennessee.

FRUIT AND NUTS: Irrigation increased in Florida's citrus areas. Warm temperatures produced new growth on young trees. Light orange splitting was not a problem. Pecans matured well across Texas. Quality was fair to good. Rain may ruin some nuts on the ground and wildlife caused considerable damage. Grapefruit and orange harvests increased. Size and quality were good. California's deciduous fruit growers continued pruning and fumigating. Navel orange harvest slowed because of fruit color and small size. A few table grapes were packed for export. Citrus harvest gained momentum in Arizona.

VEGETABLES: In Florida, fall vegetable harvest increased seasonally. Volume leaders were tomatoes, cucumbers, peppers, squash, and sweet corn. Lighter supplies of radishes, snap beans, eggplant, lettuce, celery, escarole, and carrots were available. Vegetable harvest continued in the Rio Grande Valley. Broccoli and cauliflower harvests should begin soon. Rain hampered planting in the San Antonio-Winter Garden area. Cauliflower, celery, sweet corn, lettuce, carrots, broccoli, and snap beans were harvested in California.

PASTURES AND LIVESTOCK: Pastures were mostly good. Lower temperatures restricted growth in some northern States. Livestock was mostly good. Producers continued moving livestock to small grain pastures as growth permitted.

CROP PROGRESS

FOR WEEK ENDING NOVEMBER 9, 1986

COTTON
% BOLLS OPENING

	1986	1985	AVG.
ALA	100	100	100
ARIZ	100	100	100
ARK	100	100	100
CALIF	100	100	100
GA	98	100	97
LA	100	100	100
MISS	100	100	100
MO	100	100	100
N MEX	100	100	100
N C	100	100	100
OKLA	80	98	97
S C	100	100	100
TENN	100	100	100
TEX	66	87	88
14 STATES	83	94	94

THESE 14 STATES PRODUCED 100% OF THE 1985 COTTON CROP.

CORN
% HARVESTED

	1986	1985	AVG.
COLO	61	75	75
GA	100	98	98
ILL	90	84	86
IND	85	75	80
IOWA	76	68	80
KANS	90	90	90
KY	91	81	80
MICH	55	50	65
MINN	75	68	75
MO	70	76	82
NEBR	70	70	70
N C	96	95	96
OHIO	73	64	66
PA	66	56	60
S DAK	57	52	79
TEX	99	100	100
WIS	59	44	54
17 STATES	77	71	78

THESE 17 STATES PRODUCED 93% OF THE 1985 CORN CROP.

WINTER WHEAT
% PLANTED

	1986	1985	AVG.
ARK	64	60	56
CALIF	35	35	31
COLO	99	99	100
GA	34	32	27
IDAHO	100	100	100
ILL	92	93	86
IND	90	94	93
KANS	95	95	96
MICH	80	97	98
MO	50	70	75
MONT	95	89	97
NEBR	100	100	100
N MEX	100	NA	NA
N C	53	40	58
OHIO	90	96	96
OKLA	85	95	90
OREG	96	93	95
S DAK	100	100	100
TEX	92	78	85
WASH	100	100	99

20 STATES 89 NA NA
EXCL. STATES WITH NA 89 89 90

THESE 20 STATES PRODUCED 91% OF THE 1985 WINTER WHEAT CROP.

NA - NOT AVAILABLE.

COTTON
% HARVESTED

	1986	1985	AVG.
ALA	90	81	82
ARIZ	70	55	60
ARK	94	86	77
CALIF	65	60	67
GA	65	77	66
LA	97	86	78
MISS	98	85	80
MO	95	83	77
N MEX	40	30	54
N C	70	53	69
OKLA	3	40	20
S C	63	89	85
TENN	90	70	75
TEX	21	31	34
14 STATES	51	53	53

THESE 14 STATES PRODUCED 100% OF THE 1985 COTTON CROP.

WINTER WHEAT
% EMERGED

	1986	1985	AVG.
ARK	46	41	NA
CALIF	10	10	15
COLO	94	96	93
GA	23	21	NA
IDAHO	100	100	100
ILL	75	84	76
IND	85	86	85
KANS	90	80	90
MICH	50	80	NA
MO	43	57	63
MONT	75	80	88
NEBR	100	100	100
N MEX	100	NA	NA
N C	34	NA	NA
OHIO	70	87	84
OKLA	70	80	70
OREG	90	77	83
S DAK	100	100	100
TEX	84	62	68
WASH	98	88	92

20 STATES 81 NA NA
EXCL. STATES WITH NA 83 79 82

THESE 20 STATES PRODUCED 91% OF THE 1985 WINTER WHEAT CROP.

NA - NOT AVAILABLE.

SOYBEANS
% HARVESTED

	1986	1985	AVG.
ALA	68	46	63
ARK	58	51	51
GA	37	40	43
ILL	94	92	92
IND	91	90	90
IOWA	92	90	93
KANS	60	65	80
KY	65	46	58
LA	73	48	66
MICH	65	75	80
MINN	98	94	93
MISS	65	42	53
MO	50	56	68
NEBR	90	94	95
N C	25	15	29
OHIO	89	89	88
S C	27	21	26
S DAK	93	95	96
TENN	55	50	55
19 STATES	77	73	77

THESE 19 STATES PRODUCED 96% OF THE 1985 SOYBEANS CROP.

GRAIN SORGHUM
% HARVESTED

	1986	1985	AVG.
ARK	100	98	97
ILL	90	76	77
KANS	70	80	75
LA	100	100	100
MISS	100	100	98
MO	69	72	77
NEBR	80	91	80
OKLA	50	80	60
S DAK	80	77	89
TENN	95	100	NA
TEX	78	85	89
11 STATES	78	85	NA
EXCL. STATES WITH NA	78	84	83

THESE 11 STATES PRODUCED 94% OF THE 1985 GRAIN SORGHUM CROP.

NA - NOT AVAILABLE.

WEEKLY CROP WEATHER CONDITION
CROP CONDITION PERCENT
FOR WEEK ENDING NOVEMBER 9, 1986

WINTER WHEAT

STATE	VP	P	F	G	EX
ARK	0	1	11	59	29
COLO	0	3	25	60	12
GA	0	5	43	50	2
ILL	0	4	20	64	12
IND	0	1	28	70	1
KANS	2	1	10	41	46
MICH	5	25	40	25	5
MONT	0	0	22	75	3
NEBR	0	0	10	72	18
N MEX	0	0	31	38	31
OHIO	0	3	22	72	3
OKLA	0	1	34	65	0
OREG	0	0	20	50	30
S DAK	1	0	13	72	14
TEX	0	3	25	52	20
WASH	0	5	15	80	0

VP - VERY POOR P - POOR F - FAIR EX - EXCELLENT G - GOOD

OUTLOOK '87

**FUTURE OF AGRICULTURAL WEATHER SERVICES AND JAWF
OPEN HOUSE AT USDA ON DECEMBER 4**

You are invited to attend a discussion on the future of agricultural weather services at Outlook '87, USDA's annual agricultural outlook conference. The 1-hour meeting will be chaired by Elbert W. Friday, Jr., NOAA Deputy Assistant Administrator for Weather Services. Private, state and federal perspectives will be offered by Peter Leavitt, Executive Vice President, Weather Services Corporation; Fred V. Nurnberger, Michigan State Climatologist; and Norton D. Strommen, USDA Chief Meteorologist. The meeting will be held December 4, 1986, 11:00 a.m., in room 3109 of USDA's South Building.

After the meeting, the NOAA/USDA Joint Agricultural Weather Facility will host an open house from 12:30 to 1:30 in room 5140, USDA South Building. The JAWF staff will display agricultural weather products and the new DWIPS satellite system. For information, call (202) 447-5716.

State Summaries of Weather and Agriculture

ALABAMA: Temperatures averaged 13° above normal. Rainfall totals averaged 3.00 to 5.00 in. extreme northwest; 0.50 to 1.00 in. remainder north; under 0.50 in. elsewhere.

Days suitable for fieldwork 5.0. Soil moisture 28% short, 70% adequate, 2% surplus. Harvesting progress good. Peanuts dug 94%, 100% 1985; combined 87%, 100% 1985. Harvesting sorghum, cotton, soybeans, peanuts, pecans, hay, fall commercial vegetables; planting small grains, winter grazing crops; routine care of livestock, poultry.

ARIZONA: Cold storm system spread precipitation eastern two-thirds, through 3rd. Mostly sunny skies, warmer temperatures 4th to 5th. Vigorous upper level storm moved into northwest late 6th. Scattered showers, isolated thunderstorms eastern two-thirds. Snow level lowered to 4,000 ft. by 7th, with 13 in. White Mountains. By 8th temperatures plunged to teens high county, 20s 5,000 ft., 30s and 40s lower deserts. Moisture amounts for week ranged from 0.10 to 1.50 in., except over 2.00 in. White Mountains. Average temperatures varied from normal to 4° below.

Cotton picking, stalk shredding advanced. Harvest slowed by wet storm, southeast. Alfalfa stands good. Stand renovation, planting nearing completion. Harvest light. Corn, sorghum harvests nearing completion. Peanut, sesame harvests moved ahead. Ground preparation for 1987 wheat, barley began. Lettuce harvest began west. Broccoli, cauliflower harvested. Late season mixed vegetables planted. Lettuce packed central. Southeast lettuce harvest completed. Other vegetable movement central remained active. Melon harvests nearing completion. Citrus picking gained momentum. Valencia oranges maturing, citrus groves good. Apple harvest completed, shipping continued. Pecans harvested.

ARKANSAS: Warm weather continued first of week, weak cold front moved through near end of week.

Moderate to extremely heavy rainfall, all sections of State. Temperature extremes 34°; 80°. Rainfall 1.10 to 6.68 in.

Days suitable for fieldwork 3.0. Soil moisture 50% adequate, 50% surplus. Crop growth moderate. Major activities: Planting wheat, oats, fall forages; harvesting soybeans, cotton, pecans; cutting hay, silage; fertilizing pastures; chisel plowing cotton ground; machinery maintenance; herd health practices; building, repairing fences; weaning, marketing fall calf crop. Field preparation for spring grape planting. Killing frost needed.

CALIFORNIA: Rainfall continued well below normal across northern areas, parts southern areas above normal. Small amounts rain occurred northern one-fifth State. North, central coastal, valley areas 2° above normal; southland normal, mountains 20 below normal. Ridge of high pressure along coast pushed precipitation into mountains west.

Winter wheat planting slowed. Dry weather slowed germination. Sugarbeet harvest over. Dry bean harvest winding up. Cotton harvest rapid pace. Shredding, discing cotton fields. Rice stubble burning. Alfalfa hay good quality. Corn, grain sorghum harvest. Warm, dry weather caused growers make additional irrigations. Few table grapes packed export. Most destined Japan, Taiwan, Scotland, Sweden. Persimmon harvest progressed, excellent sizes, color. Main activities deciduous orchards continued pruning, weed control, fumigation. Navel orange harvest slowed fruit color, small sizes, prorated. Prices only fair smaller sized fruit, much better larger sizes. Artichokes moderate, variable quality; Salinas. Broccoli moderate, Salinas; fairly light, Santa Maria; good quality. Fall harvest active, Firebaugh District. Snap bean harvest continued, south coast, good quality. Carrot fairly heavy, Salinas, good quality. Packing active, Westside; light amounts shipped, Hemet. Cauliflower moderate, Salinas; fairly light, Santa Maria; good

quality. Very light harvesting, Imperial Valley. Fall fields, San Joaquin Valley, normal, near harvest. Celery heavy, Salinas; fairly heavy, Santa Maria; good quality. Sweet corn, cucumber moved to markets statewide, good quality. Lettuce harvest completed, Salinas. Packing heavy, Westside, excellent quality; light harvesting, Palo Verde Valley, 10th. Desert area cantaloup, honeydew produced small sizes, poor quality, whitefly virus. Pepper picking active; Delta, Fremont-San Jose. Fall potato movement, Tulelake-Butte Valley, full-time. Harvest re-started; Perris-Hemet; quality, demand improved. Onion growers, Westside, preparing seed beds 1987 crop. Sweetpotato digging continued, Merced-Atwater; some fields undergoing preparation, fumigation for next crop. Market tomatoes harvested, Westside; tomato hotbeds fumigated. Ranges, pastures continued dry, need rain for improvement. Supplemental feeding required some areas. Calving, lambing remained active. Livestock movement heavy many areas.

COLORADO: Temperatures averaged near normal. Scattered rain, snow showers early week and again at week's end. Midweek warmer, drier.

Days suitable for fieldwork 3.3. Soil moisture 20% short, 50% adequate, 30% surplus. Dry beans threshed 95%, 100% 1985, 100% avg. Sorghum harvested for grain 56%, 80% 1985, 82% avg. Livestock good; range, pasture fair to good.

FLORIDA: Briefly cooler northern portion early in period, otherwise record highs late week, weekend over most of Peninsula. Temperatures averaged 6 to 8° above normal. Few showers mainly over southern Peninsula but no rain many places.

Soil moisture adequate western Panhandle, western coastal, southern areas; short elsewhere. Peanut harvest declined seasonally. Soybean harvest active. Cotton harvest peaked, over 50% complete. Small grains, winter grazing planting active. Sugarcane harvest increasing. Western Panhandle, southern Peninsula pastures mostly good to excellent; elsewhere mostly poor to fair. Cattle mostly good to excellent western Panhandle, south; mostly fair elsewhere. Calf marketings active. Very little rain citrus areas; irrigation most sections. Warm temperatures producing new growth on young trees. Light splitting on oranges, not problem this time. Fruit sizes good. Good color break on early fruit. Harvest active all areas. Caretakers preparing for winter season. Vegetable crops mostly good. Harvest fall crops increasing seasonally. Vegetables leading in volume: Tomatoes, cucumbers, peppers, squash, sweet corn. Lighter supplies available radishes, snap beans, eggplant, lettuce, celery, escarole, carrots.

GEORGIA: Rainfall 1.00 in. mountains, 0.50 in. or less over rest of north. Central, south only light amounts with most locations getting no rain. Temperature 92° Blakely 8th to 38° Blairsville morning of 10th. Temperatures about 14° above normal.

Days suitable for fieldwork 4.9. Soil moisture 6% very short, 37% short, 56% adequate, 1% surplus. Cotton 7% very poor, 19% poor, 59% fair, 15% good. Sorghum grain 2% very poor, 18% poor, 77% fair, 3% good; 86% harvested, 72% 1985. Peanuts 2% very poor, 13% poor, 68% fair, 15% good, 2% excellent; 96% dug, 100% 1985, 100% avg.; 85% threshed, 99% 1985, 98% avg. Soybeans 10% very poor, 28% poor, 57% fair, 5% good; 98% dropping leaves, 99% 1985, 97% avg. Rye 4% poor, 44% fair, 49% good, 3% excellent; 67% planted, 67% 1985, 64% avg. Other small grains 59% planted, 51% 1985, 53% avg. Apples 4% very poor, 25% poor, 38% fair, 33% good; 99% harvested, 100% 1985, 98% avg. Pecans 6% very poor, 9% poor, 49% fair, 36% good; 24% harvested, 33% 1985, 26% avg. Pasture 1% very poor, 15% poor, 56% fair, 27% good, 1% excellent. Hay 2% very

poor, 15% poor, 61% fair, 22% good. Cattle 3% poor, 47% fair, 49% good, 1% excellent. Hogs 2% poor, 35% fair, 61% good, 2% excellent. Main activities: Harvesting; seeding small grains, pastures.

HAWAII: Conditions variable. Rainfall, heavy at times, some areas. Wind shift from northeasterly to southerly set record high temperatures 6th, 9th. Temperatures ranged mid 60s to low 90s. Rainfall ranged none to 15.30 in.

Days suitable for fieldwork 7.0. Weather mostly fair toward crop development. Cool temperatures slowed maturity leafy vegetables. Bananas, papayas, fair to good, harvesting active.

IDAHO: High pressure, near normal temperatures. Cold front 6th, 7th, cooler temperatures, scattered showers. Most rain north, Orofino 1.00 in. plus, Kellogg 0.75 in. plus.

Farm activity consists of plowing, chiseling, fall planting. Livestock good, being gathered for winter marketing. Hay, roughage supply adequate to good.

ILLINOIS: Temperatures averaged 1° below normal to 2° above normal north, central to 4° to 6° above normal south. Precipitation none to 0.98 in. heaviest south.

Days suitable for fieldwork 4.0. Soil moisture 51% adequate, 49% surplus. Pasture 25% fair, 64% good, 25% excellent. Major farm activities: Harvesting corn, soybeans, sorghum, seeding wheat.

INDIANA: Temperatures near normal north, 3 to 5° above normal south. Lows 20s to low 30s, highs mid 60s to low 70s. Rainfall light. Amounts ranged from 0.10 in. north to 0.50 to 0.75 in. central, south. Four inch soil temperatures above normal.

Fieldwork averaged 4.4 days. Topsoil moisture 67% adequate, 33% surplus. Subsoil moisture 5% short, 75% adequate, 20% surplus. Corn 19% moisture content, soybeans 15% moisture content. Rye 97% seeded, 95% 1985, 96% avg. Spring cropland 30% tilled, 27% 1985, 34% avg. Pastures mostly fair to good. Wheat seedings fair to mostly good.

IOWA: Dry with seasonal to mild temperatures until 7 to 8th when strong, cold front moved across State. Temperature extremes upper teens; 66°.

Days suitable for fieldwork 5.8. Topsoil moisture 61% adequate, 39% surplus; subsoil moisture 54% adequate, 46% surplus. Corn harvest good progress; corn lodging 6% none, 70% light, 23% moderate, 1% heavy; ear droppage 4% none, 71% light, 24% moderate, 1% heavy. Soybean harvest nearing completion northern two-thirds; soybeans lodging 5% none, 67% light, 26% moderate, 2% heavy; shattering 15% none, 67% light, 18% moderate. Winter wheat seeded 93%, 96% 1985, 100% avg.; fall tillage 16%, 16% 1985, 32% avg.; fall fertilizer application 10%, 12% 1985, 29% avg. Livestock mostly good; no major disease problems. Cattle out on corn stalks, bean stubble.

KANSAS: Precipitation 0.50 in. west and north, 1.00 in. south central, 1.25 in. southeast. Temperatures averaged 43° northwest to 48° southeast; 1° above normal northwest, 2° below normal southeast.

Days suitable for fieldwork 2.5. Soil moisture 52% adequate, 48% surplus. Wet conditions hampered harvest fall row crops. Soybean harvest slow. Eastern acreage too wet for harvest equipment, some yield losses from shattering. Wheat seeding on schedule, virtually complete except eastern districts. Numerous leaf rust reports, unknown effect, most spores will not overwinter. Wheat 5% acreage pastured. Wheat 2% very poor, 1% poor, 10% fair, 41% good, 46% excellent. Pastures fair west, good central, excellent east.

KENTUCKY: Weather wet during week. Rainfall totals ranged from 1.00 to around 6.00 in. Temperatures continued to averaged above normal. Highs for week averaged 60s with lows between 45 to 50°. Soil temperatures averaged mid 50s to lower 60s.

Days suitable for fieldwork 2.5. Soil moisture 17% short, 70% adequate, 13% surplus. Burley tobacco stripping 40% complete, 41% 1985, 31% avg. Curing well. Corn harvest lags 1980 record pace by 3 points. Soybean harvest slowed by rains last week but still progressed well. Killing frost needed now. Wheat 84% seeded, 66% 1985, 70% avg.; 1% poor, 7% fair, 81% good, 11% excellent. Grain sorghum 88% harvested. Pastures fair to mostly good.

LOUISIANA: Temperatures 4 to 7° above normal. Temperature extremes 49°; 87°. Rainfall averaged 0.60 to 5.60 in.

Days suitable for fieldwork 3.8. Soil moisture 2% short, 47% adequate, 51% surplus. Soybeans 98% shedding leaves, 98% 1985, 98% avg. Rice 2nd cutting 30% harvested. Sugarcane good; 37% harvested, 26% 1985, 34% avg. Sweetpotatoes 97% harvested, 80% 1985, 91% avg. Pecans 34% harvested, 28% 1985, 28% avg. Wheat 41% planted, 16% 1985, 36% avg.; 29% emerged, 13% 1985, 24% avg. Vegetables fair; pasture, livestock fair to good. Main activities: Harvesting cotton, pecans, 2nd crop rice, soybeans, sugarcane, sweetpotatoes; planting wheat.

MARYLAND & DELAWARE: Maryland: Temperatures averaged 1° below normal to 3° above normal scattered stations; high temperatures mid 60s to low 70s; lows in low 30s to near 40s. Precipitation averaged 1.61 in., ranging from 0.55 Patuxent to 3.24 in. Waterloo.

Days suitable for fieldwork 3.2. Topsoil adequate. Subsoil moisture short. Field corn poor to fair; 88% harvested, 89% 1985, 93% avg. Soybeans fair to good; 52% harvested, 52% 1985, 62% avg. Small grains good after recent rains. Wheat 82% planted. Barley 97% planted, 98% 1985, 100% avg. Rye 90% planted, 91% 1985, 95% avg. Oats 99% planted, 88% 1985, 96% avg. Pasture fair to good after recent rains. Hay supply short.

Delaware: Temperatures averaged 2 to 3° below normal north, normal central and 2 to 3° above normal south. High temperatures, upper 60s to low 70s; lows mid to upper 30s. Precipitation averaged 1.40 in. ranging from 0.86 in. Georgetown to 2.07 in. Wilmington.

Days suitable for fieldwork 4.0. Topsoil moisture short to adequate. Subsoil moisture very short to short. Field corn fair to good; 95% harvested, 96% 1985, 98% avg. Soybeans fair to good; 65% harvested, 45% 1985, 65% avg. Winter wheat fair to good; 74% seeded, 90% 1985, 84% avg. Barley fair to good; 95% seeded 95% 1985, 99% avg. Rye fair to good; 97% seeded, 90% 1985, 83% avg. Pasture fair. Hay supply short to adequate.

MICHIGAN: Temperatures ranged 1 to 6° below normal. Temperature extremes 18°; 69°. Precipitation ranged none to 0.30 in. across State.

Days suitable for fieldwork 6.0. Soil moisture 50% adequate, 50% surplus. Corn 55% harvested, 1985, 65% avg. Soybeans 65% harvested, 75% 1985, 80% avg. Winter wheat 80% planted, 97% 1985, 98% avg.; 50% emerged, 80% 1985; 5% very poor, 25% poor, 40% fair, 25% good, 5% excellent. Dry beans 95% harvested, 100% 1985, 99% avg. Major activities: Corn for grain and dry bean harvesting, soybean combining, wheat planting, silage making. Sugarbeet, potato digging neared completion.

MINNESOTA: Temperatures averaged near normal to 3° below normal. Temperature extremes 0°; 62°. Precipitation averaged 1.15 to 1.43 in. above normal for northern one-third State, near normal to 0.54 in. above normal elsewhere. Greatest weekly total 2.00 in. Snowfall averaged 4 to 8 in. northwest, north central, west central and trace to 2 in. elsewhere.

Days suitable for fieldwork 5.7. Topsoil moisture 4% short, 75% adequate, 21% surplus. Good weather most of week advanced harvest, fall field activities to normal or beyond. Good drying last 3 to 4 weeks. Fall plowing, rock picking, cleaning drainage systems, applying fertilizer, harvesting active. Northern area received snow end of week. Field corn 75% harvested, 68% 1985, 75% avg.; 22% moisture content of grain, 23% 1985, 22% avg.; 40% stubble plowed, 23% 1985, 22% avg. Soybeans 98% harvested, 94% 1985, 93% avg.; 14% moisture content, 13% 1985, 14% avg.; 62% stubble plowed, 50% 1985, 58% avg. Sunflowers 94% harvested, 76% 1985, 82% avg.

MISSISSIPPI: Temperatures 6 to 12° above normal. Extremes 47°; 87°. Rain all areas, heaviest north. Greatest 24-hour total 4.69 in.

Days suitable for fieldwork 2.7, 4.0 1985, 4.9 avg. Soil moisture 11% short, 52% adequate, 37% surplus. Wheat 50% planted, 40% 1985, 49% avg.; 2% poor, 51% fair, 47% good. Hay 99% harvested. Pecans 38% harvested, 27% 1985, 33% avg.; 14% poor, 57% fair, 29% good.

MISSOURI: Temperatures near normal, 0.50 in. rain across northern third, 1.00 in. central, 2.00 in. south.

Days suitable for fieldwork 1.7. Soil moisture 27% adequate, 73% surplus. Little harvest progress with wet fields. Fall tillage complete 19%, 34% 1985, 39% avg. Pasture 1% poor, 21% fair, 64% good, 14% excellent.

MONTANA: Temperatures near normal first, fell into single digits central, north central by week's end. Temperatures averaged normal to slightly below. Precipitation form of snow heaviest south central mountains 21 in. Other snow depths Billings 6 in., Butte, West Yellowstone 7 in. Water equivalent highest west, southwest, south central 0.40 in.

Activities mostly farmstead, livestock care. Limited fieldwork early, final winter wheat seeding.

NEBRASKA: Rainfall averaged almost none northwest to 0.65 in. southeast. Temperatures ranged 4° below normal Panhandle to 1° above normal east. Temperatures extremes 5°; 67°.

Days suitable for fieldwork 5.0. Topsoil moisture 72% adequate, 28% surplus. Subsoil moisture 4% short, 74% adequate, 22% surplus. Small populations Russian wheat aphid southwest Panhandle. Corn moisture above 20% delaying harvest. Soybean harvest progress behind southeast. Elevators piling grain on ground. Pasture, range feed supplies mostly adequate. Moving calves to auction. Fencing stalks for grazing.

NEVADA: Cool air moved in from north producing temperatures 3 to 5° below normal. Skies fair except for scattered snowfall north, east near end of period. Wild Horse reservoir north up to 5 in. snow on ground. Most other areas north, east 1 in. Temperature extremes 8°; 78°.

Seventh cuttings alfalfa extreme south, other areas finished. Planting 1987 garlic crop about completed. Cattle moving from pastures, ranges to local auctions, markets.

NEW ENGLAND: Wet, cold week, winter setting in early across northern New England. Average temperatures for week between 36 to 42° north, 42 to 48° south, about 1 to 7° below normal. Precipitation averaged 0.30 to 1.00 in. north, 1.00 to 1.50 in. coastal, 1.50 to 2.00 in. other areas. Combination of temperatures well below normal, heavy precipitation much of northern New England one of earliest major snowfalls on record. Some areas of northern New Hampshire, western Maine received between 6 to 12 in. of snow.

Major farm activities: Fall clean-up, weather permitting, preparations for winter.

NEW JERSEY: Temperatures below normal north, normal south, coastal, averaging 44° north, 50° south, 54° coastal. Extremes 20°; 78°. Precipitation much above normal, averaging 1.79 in. north, south, 1.91 in. coastal. Heaviest 24-hour total 2.06 in. 5th, 6th. Heaviest 24-hour snowfall 2.50 in. 5th, 6th.

Fieldwork very limited due to rainy weather. Soil moisture excessive many areas. Light volumes hardy fall vegetables moved to market. Harvest of soybeans, corn for grain delayed by wet conditions. Near normal temperatures aided growth of fall sown grains, cover crops, pastures.

NEW MEXICO: Weekly average temperatures near 50 below normal statewide. Rain, snow over most of State. Amounts above 1.00 in. common.

Days suitable for fieldwork 4.4. Soil moisture 27% adequate, 73% surplus. Freeze damage 45% none, 33% light, 11% moderate, 11% severe. Alfalfa 37% poor, 25% fair, 38% good. Cotton 17% poor, 33% fair, 50% good. Corn 20% fair, 80% good. Barley 20% fair, 60% good, 20% excellent. Irrigated grain sorghum 29% fair, 71% good. Dryland grain sorghum 33% fair, 67% good. Pecans 100% good. Chile 40% fair, 60% good. Lettuce 50% fair, 50% good. Cattle 9% fair, 91% good. Sheep 10% fair, 90% good. Range 27% fair, 64% good, 9% excellent.

NEW YORK: Very wet week, almost daily rain or showers. Mix of rain, sleet, snow highlighted cool outbreak 5th. Up to 4.00 in. snow across Adirondacks. Temperatures averaged 1 to 3° below normal. Temperatures dipped to teens, low 20s on 6th.

Days suitable for fieldwork 5.0. Soil moisture surplus to excessive. Corn silage harvest 89% complete; grain corn harvest 46% complete. Yields good for silage, grain. Hay, haylage operations essentially complete. Dry bean harvest nearly done, wet fields, wet beans. Cattle brought in from pasture. Apple growers Lake Ontario region finishing harvest of Romes.

NORTH CAROLINA: Temperatures averaged 11° above normal mountain, coastal plain regions, 7 to 9° above normal Piedmont region. Temperature extremes 40°; 84°. Precipitation ranged from none to 2.70 in.

Days suitable for fieldwork 4.7. Soil moisture 9% very short, 51% short, 39% adequate, 1% surplus. Corn grain harvest virtually complete. Cotton fair to good, harvest average. Soybeans mostly fair, harvest slightly behind average. Wheat planting behind average. Oats planted 69%, 63% 1985, 73% avg. Barley planted 68%, 62% 1985, 71% avg. Rye planted 66%, 66% 1985, 70% avg. Sorghum harvested 76%, 83% 1985, 85% avg. Peanuts threshed 98%, 93% 1985, 85% avg. Sweetpotatoes harvested 88%, 90% 1985, 92% avg. Apple harvest virtually complete. Pastures 1% very poor, 23% poor, 52% fair, 24% good. Major farm activities: Seeding small grains, pastures; harvesting corn, soybeans, peanuts, cotton, sorghum, sweetpotatoes, hay, fall vegetables; grading, stripping burley tobacco; marketing tobacco; land preparation; cutting firewood, Christmas trees; tending

livestock; pruning fruit trees; conservation work; spreading lime; mowing; general farm maintenance.

NORTH DAKOTA: Winter arrived. First winter storm dropped large amounts of snow. Temperatures averaged 2° above normal, north central to 6° above normal, southeast. Extremes 6° northeast, south central; 63° south central. Most snow received northeast 25 in.

Harvest halted nearly whole State due to snow accumulation. Harvest completion reached 90% for corn, sunflower compared to 74% 1985, 86% avg.; 79% 1985, 84% avg., respectively. Farmers, ranchers busy digging out. Small grains all in except fields damaged by earlier wet weather will not be harvested. Other crops virtually all harvested before storm.

OHIO: Average high temperatures 50s to 60s; near normal. Average lows upper 30s to low 40s; near normal north, 10° above normal south. Precipitation ranged from 3.00 to 4.00 in. south to almost none north. Soil temperatures above 50°, 4.00 in. under bare ground; slightly warmer under sod.

Days suitable for fieldwork 4.2. Soil moisture 4% short, 65% adequate, 31% surplus. Harvest interrupted midweek; light rains. Harvested grain quality good; moisture content of corn 20%, soybeans 15%. Winter wheat planting almost complete; lagging recent years. Grassland condition down slightly but good.

OKLAHOMA: Temperatures averaged 3° below normal Panhandle to 1° above normal east central, southeast. Precipitation averaged 1.29 in. northeast to 2.77 in. southeast.

Days suitable for fieldwork 2.8. Topsoil moisture 30% adequate, 70% surplus. Subsoil moisture 100% adequate. Cool temperatures, persistently damp weather curtailed fieldwork. Wheat 1% poor, 34% fair, 65% good; 85% planted, 95% 1985, 90% avg.; 70% emerged, 80% 1985, 70% avg. Wheat growth made good progress with ample moisture. Wet weather limited planting. Sorghum 50% harvested, 80% 1985, 60% avg. Cotton 80% open bolls, 98% 1985, 97% avg.; 3% harvested, 40% 1985, 20% avg. Harvest again interrupted by wet weather. Many waiting for lower moisture content before harvest. Below standard grade cotton expected because of heavy autumn rains. Pastures good; improved with rain, mild temperatures. Cattle marketings, prices near last week's levels.

OREGON: Temperatures warmest in southwestern corner of State, with departures of 9° above normal. Elsewhere, departures slightly above, slightly below normal. Precipitation heaviest along coast, coastal range mountains. Heaviest readings 2.06 in. Brookings, 1.75 in. Laurel Mountain. Elsewhere rainfall amounts varied from trace to 0.60 of an in.

Soil moisture 25% short, 70% adequate, 5% surplus. Fall grain seeding near completion; good emergence of winter wheat. Grass seeding on CRP acreage continued. Fair weather allowed some late fieldwork, plowing, fertilizing, weed control, etc. Field corn harvest continued eastern areas. Fall activities winding down all areas. Livestock continued good to excellent. Weaning calves continued, weights average. Pastures, ranges good.

PENNSYLVANIA: Wet week with normal temperatures. Season's first snow dropped up to 3 in. across portions of Pocono Mountains, northern tier counties during midweek. Average temperatures 44°, normal 44°. Temperature extremes 22°; 75°. Average precipitation 1.63 in., 0.90 in. above normal.

Days suitable for fieldwork 4.0. Soil moisture 7% short, 69% adequate, 24% surplus. Corn 66%

harvested, 56% 1985, 60% avg.; 6% poor, 21% fair, 46% good, 27% excellent. Soybean harvest 66% complete, 50% 1985, 60% avg.; 1% very poor, 4% poor, 19% fair, 53% good, 23% excellent. Amount of feed being obtained from pastures average to below average. Activities: Harvesting soybeans, corn grain, corn silage; spreading fertilizer, manure. Following categories discontinued for year: Ensilage corn harvested, apple harvested, grape harvested, fall plowing, fall wheat planted, 4th cutting alfalfa, quality of hay.

PUERTO RICO: NO DATA AVAILABLE.

SOUTH CAROLINA: Temperatures varied record high on 8th. Rainfall heavy northwest; light midlands, coastal plains.

Days available for fieldwork 4.7. Soil moisture 7% very short, 56% short, 35% adequate, 2% surplus. Cotton open bolls 100%; 63% harvested, 89% 1985, 85% avg.; 26% very poor, 55% poor, 19% fair. Soybeans leaves turning 100%; 88% shedding leaves, 98% 1985, 94% avg.; 80% mature, 86% 1985, 79% avg.; 27% harvested, 21% 1985, 26% avg.; 7% very poor, 60% poor, 33% fair. Tobacco harvested 100%; 90% stalks destroyed, 94% 1985, 100% avg. Peanuts fair; 80% harvested, 91% 1985, 95% avg. Sweetpotatoes fair; 76% harvested, 87% 1985, 89% avg. Apples fair; 94% harvested, 100% 1985, 100% avg. Barley, oats, rye, wheat fair to good. Pastures, hay fair. Winter grazing, livestock fair to good. Rains help growth, germination of small grain.

SOUTH DAKOTA: Average temperatures normal. Extremes 13°; 66°. Precipitation above normal west, below normal east. Snow late week.

Days suitable for fieldwork 5.3. Topsoil moisture surplus portions east, adequate elsewhere, 2% short, 89% adequate, 9% surplus. Harvest behind normal. High grain moisture content holding up harvest. Livestock good to excellent. Feed, stockwater supplies adequate.

TENNESSEE: Temperatures 6 to 12° above normal. General rain entire State.

Days suitable for fieldwork 3.8. Soil moisture 2% very short, 26% short, 64% adequate, 8% surplus. Corn 90% harvested, 88% 1985, 85% avg. Burley tobacco 50% stripped, 55% 1985, 55% avg. Wheat 65% seeded, 65% 1985, 65% avg. Pastures good. Cotton harvest ahead of schedule.

TEXAS: Upper air disturbance followed by cold front rain much State early week. Some heavy amounts southeast. Fair, cooler weather west midweek, some showers lingered south, east. Upper air disturbance, warm front more extensive showers south, east. Temperatures warmed later week, surge of cool air readings down near normal weekend. Rainfall near normal except south central, Lower Valley areas, slightly below normal. Temperatures variable, below normal western areas, above normal east, south.

Crops: Corn harvest Plains almost complete early week rain forced producers out of fields. Good yields reported. High winds some lodging remaining fields. Grain sorghum harvest began increase last week Plains; moisture limited field time. Some fields damaged by high winds, lodging. Most part, harvest complete Cross-Timbers. Test weights fair to good. Mature 95%, 100% 1985, 99% avg. Cotton not changed much Plains as recent rains hampered harvest, caused further decline quality. Cooler temperatures slowed boll opening. Open weather needed for harvest resume. Harvest slow Trans-Pecos, Hill Country. Small grains good progress, additional moisture made little difference. Growth slowed somewhat by cooler temperatures, no adverse changes occurred. Some yellowing because excessive moisture portions Low

Plains. Seeding slow most areas, some progress Blacklands. Rust, greenbugs began scattered fields. Small grain pastures good forage for grazing; movement onto grain pastures slow because wet conditions. Peanut harvest slowed many areas. Yields, grades above average Low Plains, Cross-Timbers. Harvest slow Hill Country, south. Yields also good; could suffer if prolonged wetness. Harvested 64%, 47% 1985, 58% avg. Soybean yields Plains also suffered because recent rains. Harvest getting underway, rain delayed activities. Some fields shattering. Upper Coast weather, diseases lowering yields. Some acreage maybe abandoned. Harvested 64%, 31% 1985, 52% avg. Sugarbeet harvest slow Plains. Tonnage good; sugar content down. Sugarcane harvest continued with good yields. Other crops harvested: Sunflowers 64%, 73% 1985, 78% avg. Sugarbeets 30%, 38% 1985, 58% avg. Pecans 47%, 17% 1985, 25% avg. Other crops planted: Oats 85%, 70% 1985, 80% avg.

Commercial Vegetables: Rio Grande Valley, harvest cucumbers continued, tomato, bell peppers, other greens increasing. Planting carrots, onions continued. Broccoli, cauliflower harvest begin soon. Harvest grapefruit, oranges increasing. Good quality, sizes reported. San Antonio-Winter Garden, rain hampered planting. Harvest cabbage increased. Spinach up to good stands. Rain slowed carrot harvest, hurt lettuce High Plains. Trans-Pecos seeding onions continued. Harvest lettuce begin soon. Harvest other cole crops continued. Pecans maturing well across State. Harvest progress central, east. Quality fair to good. Rains may ruin some nuts on ground. Crows, squirrels caused considerable damage.

Range and Livestock: Growth range, pasture grasses continued improve with added moisture. Forage availability should be good this winter. Small grain pastures also providing good grazing. Movement livestock onto small grains slowed by wet ground. Body conditions good. Early lambing season beginning Hill Country.

UTAH: Precipitation light west, east central, extreme southwest. Moderate elsewhere. Temperatures 3° below to 2° above normal.

Poor drying weather delayed completion of harvests. Major farm activities: Livestock chores, preparation for winter. Livestock generally good.

VIRGINIA: Rain, drizzle, fog most week. Precipitation widespread, maximum 2.12 in. Temperatures slightly above normal until end period. Well above normal end, record highs set. Maximum 83°.

Days suitable for fieldwork 3.3. Topsoil moisture 20% short, 73% adequate, 7% surplus. Grain corn harvest 86% complete, 85% 1985, 86% avg. Soybean harvest 48% complete, 31% 1985, 48% avg. Tobacco curing, grading, marketing. Wheat 65% seeded, 55% 1985, 70% avg. Barley 90% seeded, 88% 1985, 93% avg. Oats 96% seeded, 98% 1985, 98% avg. Winter grains good. Pastures improved, fair to good. Limited late hay cutting. Cattle sales active.

WASHINGTON: Dry, mild temperatures prevailed. Precipitation below normal. Average temperatures ranged 7° above normal to 2° below normal.

Days suitable for fieldwork 6.0. Soil moisture 35% short, 65% adequate. Winter wheat 100% seeded, 1985 100%, 99% avg. Winter wheat emerged 98%, 1985 88%, 92% avg. Fruit, berry harvest complete.

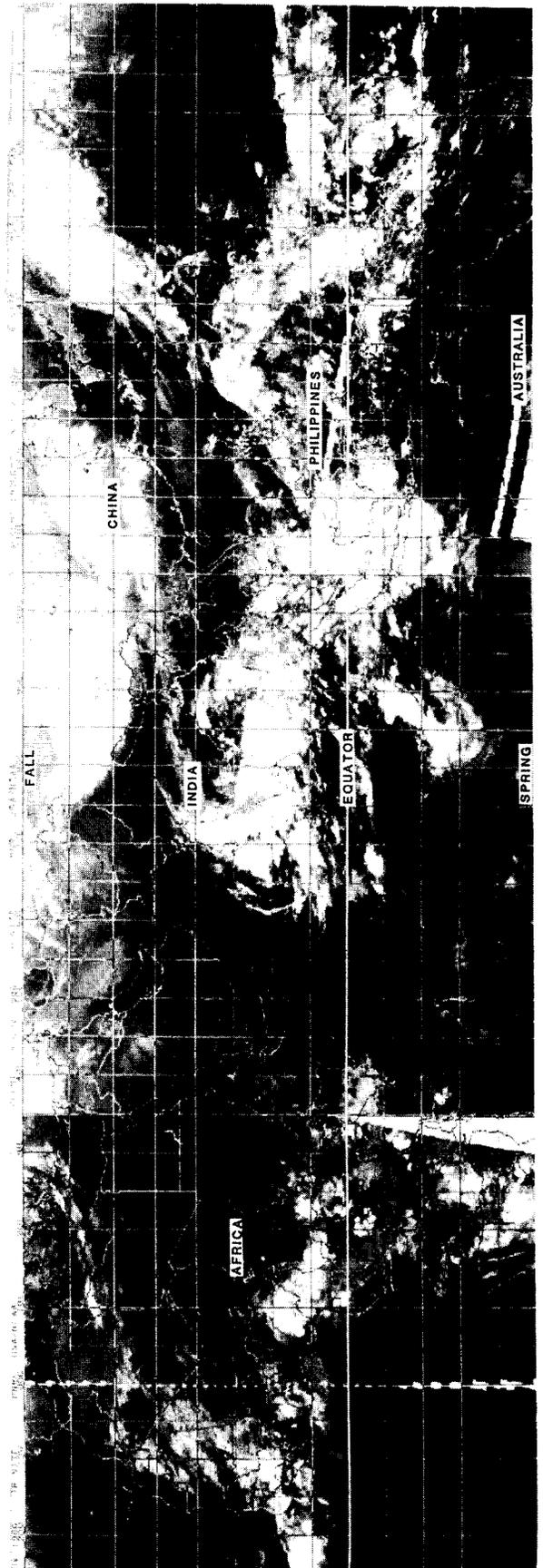
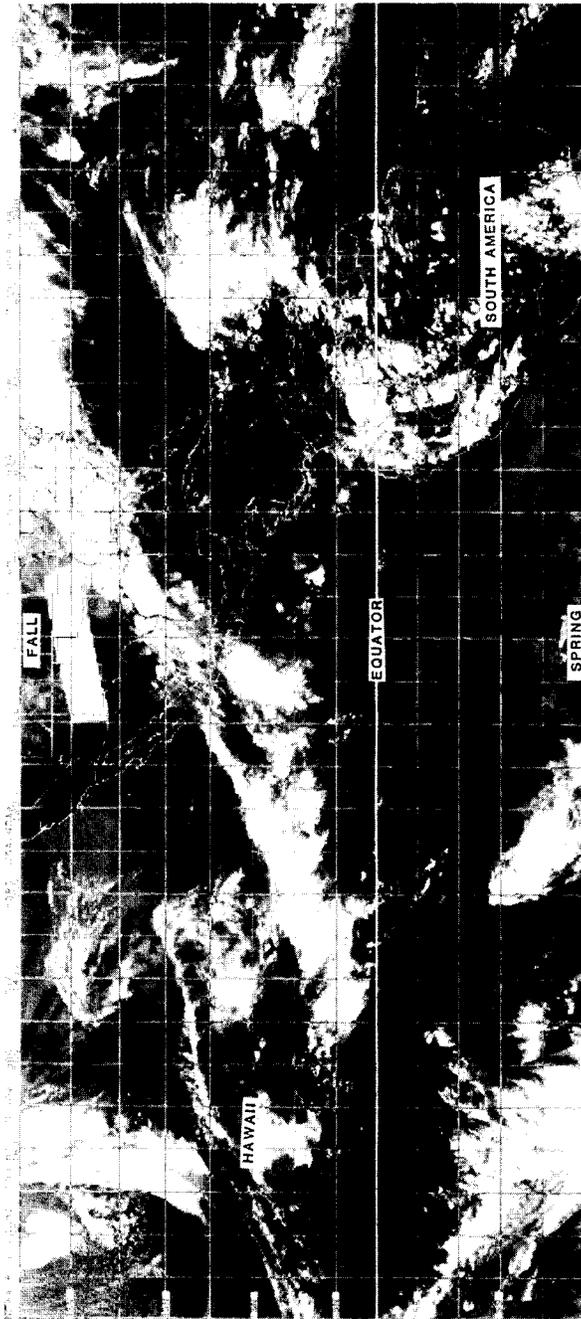
WEST VIRGINIA: Temperatures 3 to 8° above normal. Temperature extremes 30° Terra Alta; 74° Gary. Average temperature 52°. Precipitation over 1.50 in. statewide. Average precipitation 2.62 in.

Days suitable for fieldwork 1.9. Soil moisture 6% very short, 6% short, 57% adequate, 31% surplus.

(Continued to p. 22)

Global Weather Satellite Image

NOVEMBER 5, 1986



International Weather and Crop Summary

November 2 - 8, 1986

HIGHLIGHTS:

UNITED STATES ... Scattered rain across the eastern half of the Nation hampers harvest and wheat seeding in some States, while drier weather allows harvest and seeding to flourish in some rain-soaked Corn Belt and Great Plain States.

WESTERN U.S.S.R. ... Light showers cover southern winter grain areas, but continued unseasonable cool weather limits plant establishment.

EUROPE ... Moderate to heavy rain continues over southern Italy and Greece. Mild weather in the west and north promotes continued winter grain growth. Unseasonable cool weather in the east induces plant hardening and limits growth.

SOUTH ASIA ... Moderate to heavy showers in southern India benefit cotton and rice but cause local flooding.

EASTERN ASIA ... Dry weather over the North China Plain helps cotton harvesting. Mild weather promotes continued wheat growth, but rain is needed in nonirrigated areas.

MEXICO ... Mostly dry weather promotes fieldwork in the west. Showers fall along the east coast.

SOUTHEAST ASIA ... Rainfed crop areas throughout Indochina are mostly dry, as light to moderate rainfall is confined to coastal areas.

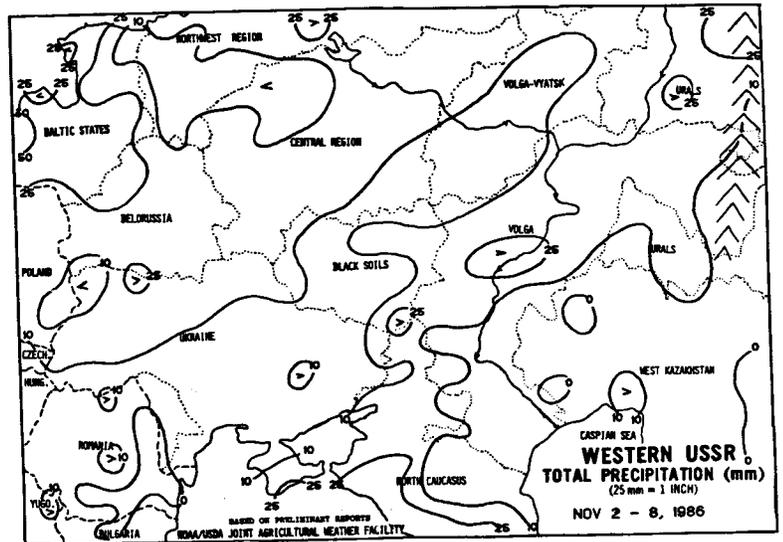
SOUTH AMERICA ... Locally heavy rain halts fieldwork in northeastern Argentina and Rio Grande do Sul, Brazil. Beneficial showers help summer crop emergence in the remaining crop area of Argentina and south-central Brazil.

AUSTRALIA ... Moderate showers benefit grain-filling wheat in Western Australia. Scattered, light rain and warm weather in the east promote germination of recently planted summer crops.

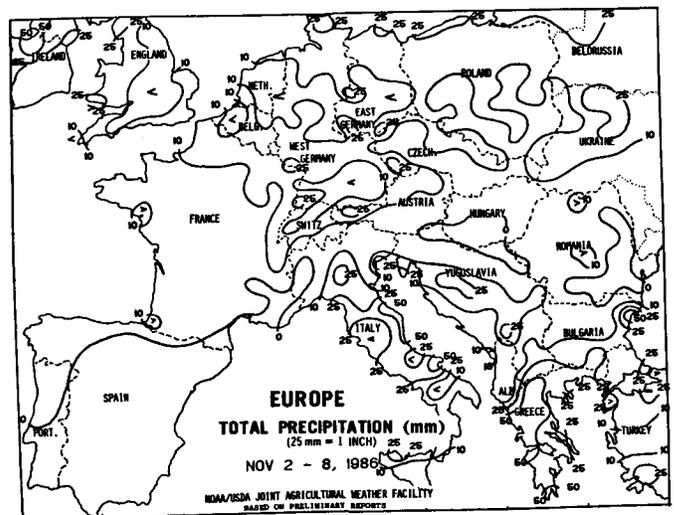
EUROPE ... A storm developed over Italy on Monday and moved through the eastern Mediterranean during the remainder of the week. The storm produced moderate to heavy rain over parts of Italy and much of Greece, a weather pattern similar to the previous week's. High pressure dominated much of central Europe, keeping most of France, Iberian peninsula, and central and eastern Europe dry. The dry weather in France helped corn harvesting. A series of fronts swept across the north, giving much of Poland above-normal precipitation. Weekly temperatures were below normal in Eastern Europe, which slowed winter grain growth and caused plant hardening. Mild weather continued over western and northern Europe, allowing continued winter grain growth.

SOUTH AFRICA ... Moderate to heavy showers in the Maize Triangle further improve soil conditions for the upcoming growing season.

NORTHWESTERN AFRICA ... Light showers in northeastern Algeria and northern Tunisia keep topsoils moist for wheat planting.



WESTERN U.S.S.R. ... Widespread, light showers (10 to 25mm) in the southwestern Ukraine, northern North Caucasus, and the lower Volga improved moisture conditions for winter grains, following unfavorable dryness. Winter grain areas over the remainder of the south received rainfall less than 10mm. Weekly temperatures were near normal in the north and 1 to 3 degrees C below normal in the south. Winter grains in the Central Region, Black Soils Region, Volga Vyatsk, and upper Volga remained dormant. In major southern winter wheat producing areas of the Ukraine and North Caucasus, unseasonable cold weather for the past 2 weeks has caused plant hardening earlier than usual. Furthermore, the cold weather has limited winter wheat establishment, making the crop more susceptible to potential winterkill conditions.



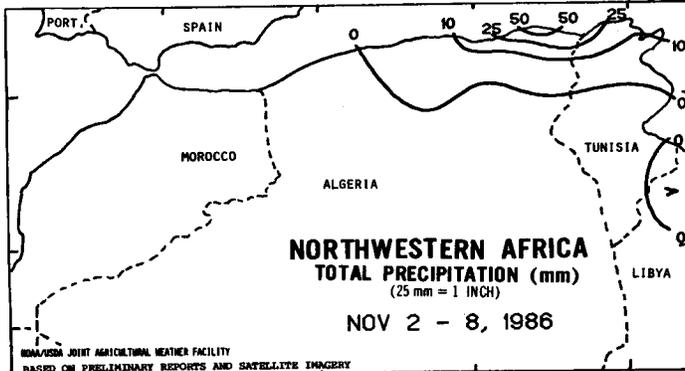
(Continued from p. 19)

WISCONSIN: Good, dry harvesting weather. Temperatures normal, averaged 38°; low 11°, high 60°. Rainfall 0.10 to 0.80 in.

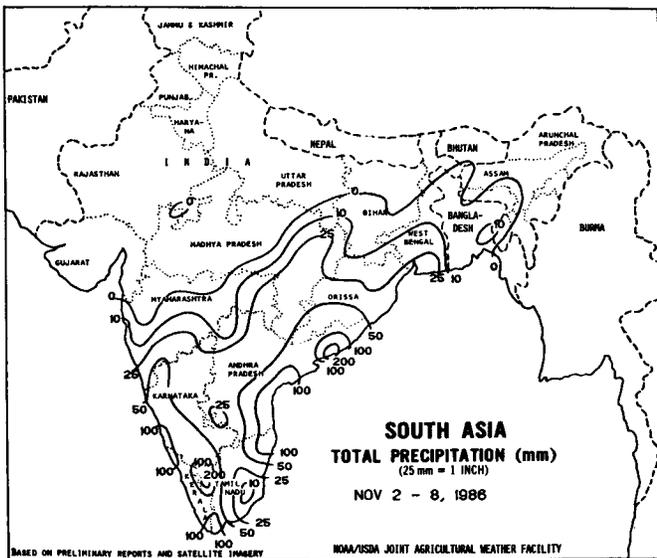
Days suitable for fieldwork 6.2. Soil moisture 54% adequate, 46% surplus. Harvest advanced rapidly. Corn harvest 59% complete, 44% 1985, 54% avg. Corn yields excellent. Soybean harvest 73% complete, 61% 1985, 70% avg. West central yields very good. Hay fields dormant. Fall plowing 33% complete, 31% 1985, 37% avg. Less winter wheat planted due to wet soils.

WYOMING: Temperatures near normal. Precipitation mostly above normal.

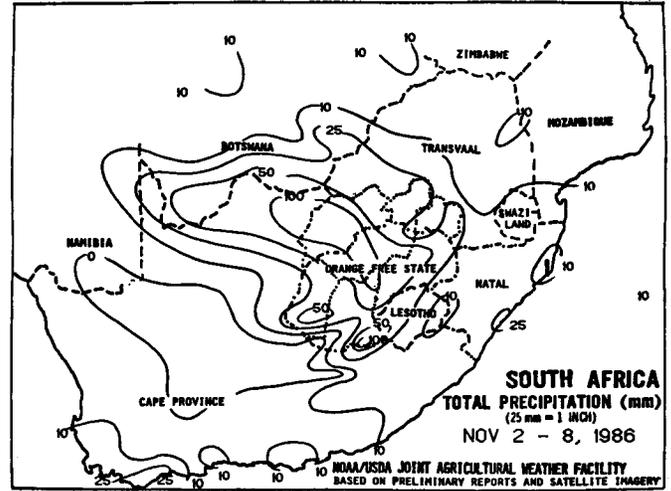
Harvesting corn for grain continued. Sugarbeet harvest nearly complete. Winter wheat mostly good. Livestock mostly good. Hay supplies adequate or better.



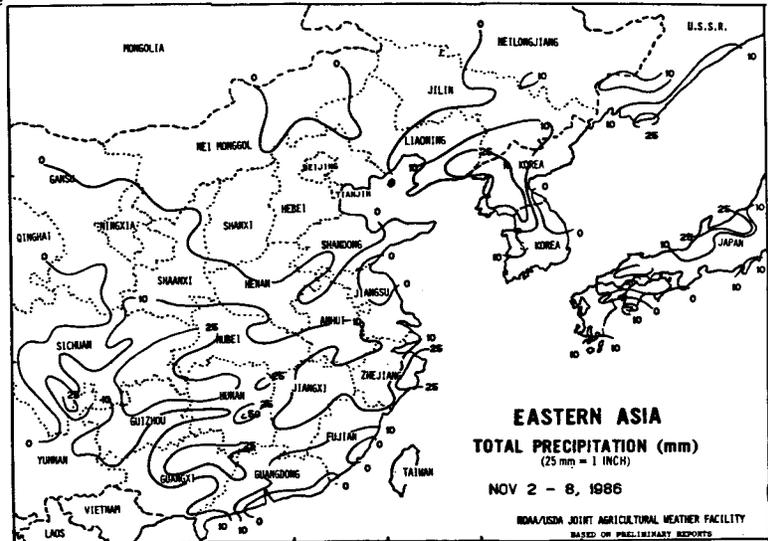
NORTHWESTERN AFRICA ... Light showers (around 10mm) in northeastern Algeria and northern Tunisia continued to moisten topsoils for winter grain planting. Dry weather covered winter grain areas in western Morocco and northwestern Algeria. Rain is needed in these areas before planting can begin.



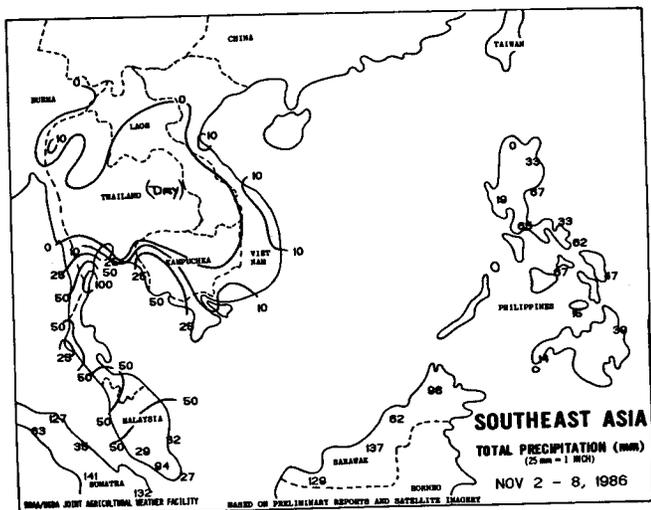
SOUTH ASIA ... Moderate to heavy showers (25 to more than 100mm) benefited boll forming to maturing cotton and grain-filling rice in southern India from southern Maharashtra and West Bengal to Tamil Nadu. However, locally heavy showers in Tamil Nadu and southeastern coastal areas likely produced flooding. Northwest India remained dry from northern Maharashtra and northern Bihar to Punjab. Light rain (less than 10mm) in the east benefited grain-filling rice from southern Bihar through Bangladesh.



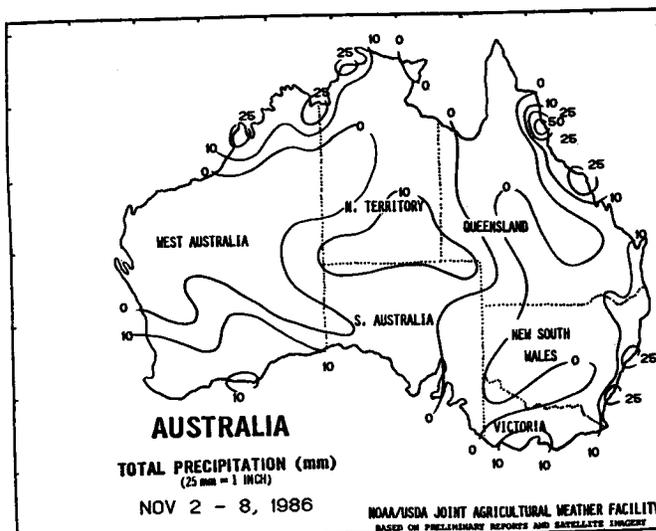
SOUTH AFRICA ... Moderate to heavy showers (25 to more than 100mm) continued in most areas of the Maize Triangle, further increasing moisture reserves for the upcoming growing season. Lighter rain (6 to 25mm) fell from the northern Transvaal to the eastern Triangle region and in the grain areas of Natal and the Cape Province. Planting should be well underway in response to this season's favorable weather, but a few days of dry weather will be needed to promote fieldwork.



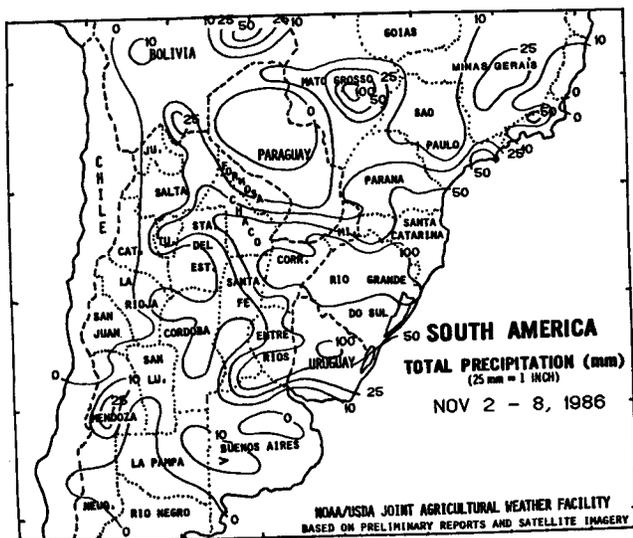
EASTERN ASIA ... This week's weather was similar to last week, with dry weather covering the North China Plain and light-to moderate showers covering southern China. The dry weather over the North China Plain aided cotton harvesting, but additional rain is needed for winter wheat growth in nonirrigated crop areas. Weekly temperatures over the North China Plain wheat areas were near normal, favoring continued growth. Light-to moderate rain in the Yangtze Valley may have caused some delays in rice harvesting, especially in western areas. Dry weather over south coastal China favored maturing late rice.



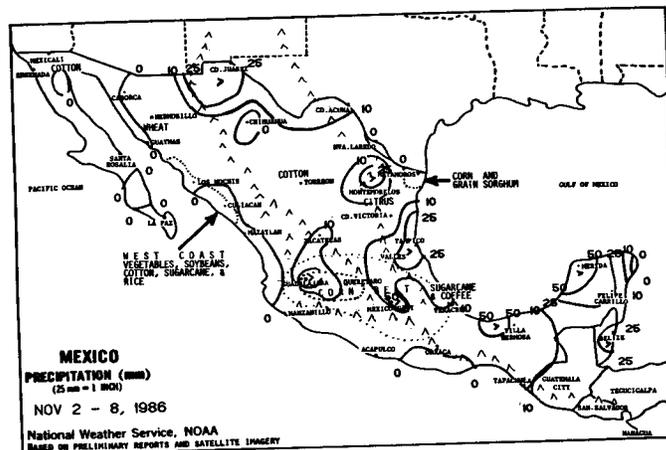
SOUTHEAST ASIA ... Mostly dry weather prevailed in rainfed crop areas of central and eastern Thailand, Laos, and northern Kampuchea, with scattered, light rain (less than 10mm) falling in northern Thailand. Moderate rain (10 to 21mm) fell in coastal Vietnam, with heavier showers (25 to more than 50mm) falling from southern Kampuchea through the Malay Peninsula. Light to moderate showers fell throughout the Philippines, with heaviest rainfall (more than 50mm) continuing in southern and eastern Luzon.



AUSTRALIA ... Light, scattered showers and warm temperatures in eastern Australia benefited grain-filling to maturing wheat and promoted germination of recently planted summer crops. Rainfall ranged from 1 to 10mm in New South Wales and southeast Queensland while dry weather prevailed in South Australia and Victoria. Temperatures averaged 18 to 24 degrees C in the east with slightly cooler temperatures in parts of Victoria. Following 2 weeks of minimal rainfall, moderate showers (more than 10mm) fell in Western Australia's wheat region. However, temperatures were cool, ranging from 13 to 18 degrees C.



SOUTH AMERICA ... In Brazil, locally heavy rain (50 to 175mm) halted fieldwork in Rio Grande do Sul. Wheat harvesting and early soybean planting were delayed by the soaking rain. Beneficial showers fell over Parana, southern Mato Grosso do Sul, and eastern Minas Gerais, favoring early soybean emergence and late coffee flowering. Minimal rain (less than 5mm) fell over most of Sao Paulo, southwestern Minas Gerais, and southern Goias. In Argentina, heavy rain (50 to 150mm) in the northeast extended into the cotton areas of Chaco, delaying fieldwork. Some rain fell over most wheat and corn growing areas, but rainfall was variable (1 to 54mm). The heavier showers (30 to 54mm) were confined to extreme northern Buenos Aires and southeastern Santa Fe. Corn advanced to 75 percent planted, sunflowers were 35 percent sown, and sorghum and soybeans reached 15 and 10 percent planted, respectively.



MEXICO ... Mostly dry weather continued in northwestern winter wheat areas where planting extends from September to January. Light showers (less than 5mm) covered the north-central rangelands. Heavier showers (10 to over 50mm) fell in the east from the northeast grain area, where harvesting is underway, to the Yucatan peninsula where corn is in vegetative growth. Some rain fell in the Southern Plateau corn belt, but rainfall was highly variable. In general, mostly light rain fell in central and southern portions of the major corn growing region. Dry weather prevailed along the west coast farming region. Winter vegetables are normally planted during November. Sugarcane harvesting was also beginning in the east, in the vicinity of Veracruz.

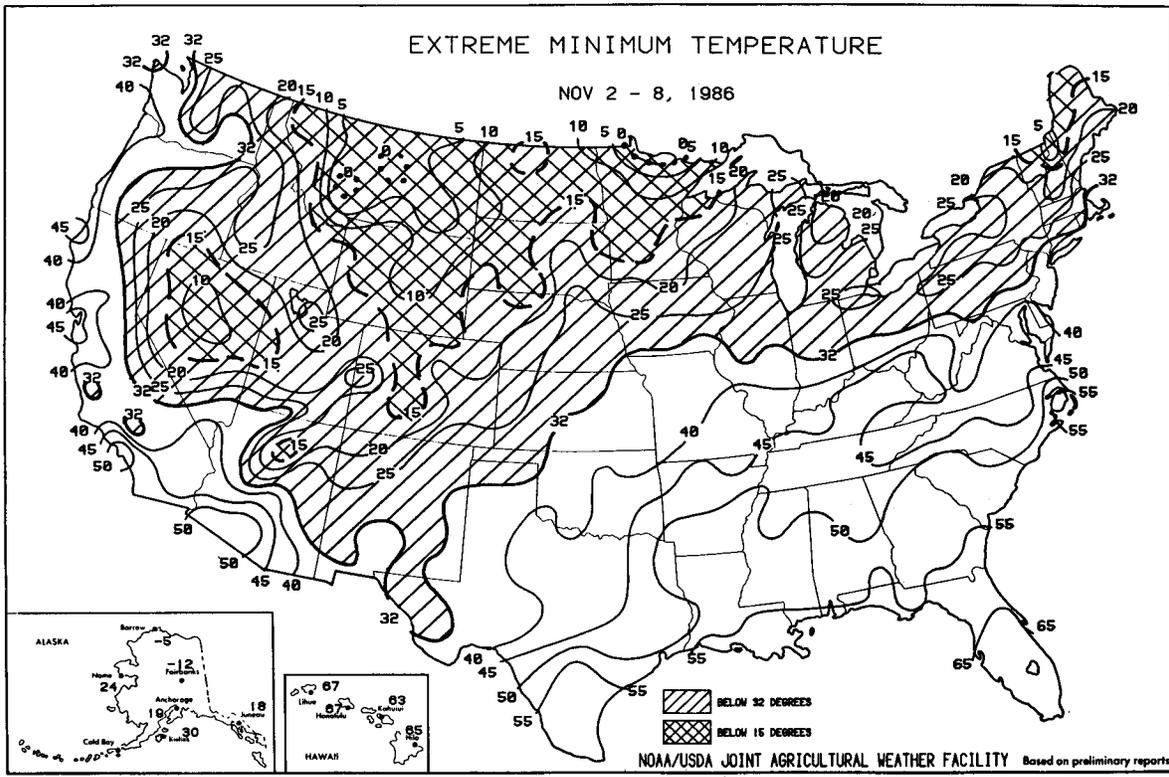
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