

WEEKLY WEATHER AND CROP BULLETIN

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

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

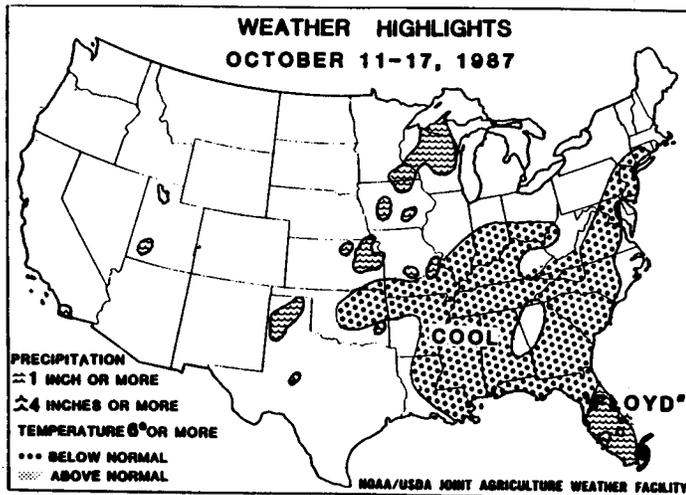
Volume 74, No. 42

Washington, D.C.

Oct. 20, 1987

National Weather Summary

October 11 to 17, 1987



HIGHLIGHTS: Two tropical disturbances, separated by nearly 3,000 miles, played prominent roles in the week's weather. Hurricane "Floyd" brought high winds and heavy rains to southern Florida, while the Pacific storm "Ramon" produced a stream of moisture across the Southwest. The eastern third of the Nation had mostly cool dry weather. Shower activity increased across the Midwest. A polar outbreak began early in the week in the northern Great Plains and reached the southern Plains and the Mississippi Valley by week's end.

SUNDAY...Snow fell in New England and upstate New York, and rainfall was widespread from southern New England through the central Appalachians. Showers and a few thunderstorms were scattered across Kansas, Oklahoma, and Missouri. Skies were mostly clear from southeastern Texas through the Gulf coast region. Showers and a few thunderstorms were scattered across California and western Arizona, as moisture from "Ramon" moved northeastward from the Baja California peninsula. Thunderstorm activity increased over southern Florida as hurricane "Floyd" approached.

MONDAY...Hurricane "Floyd" moved from southwest to northeast across southern Florida, then out to sea, with highest sustained winds of 75 miles per hour. Gale-force winds and rain struck the Carolina coast. Remnants of the hurricane "Ramon" continued to cause scattered rainshowers over the Southwest. Unseasonably cool weather continued over much of the East.

TUESDAY...Scattered showers and a few thunderstorms lingered over the desert Southwest and central Rockies. Rain ended a 37-day dry spell in Utah. Skies were mostly cloudy over the northern Great Plains as a cold front moved into the Dakotas and

Wyoming, accompanied by strong gusty winds. Clouds with high winds continued along the coast of the Carolinas, Georgia, and Florida, as hurricane "Floyd" moved northeastward and weakened over open waters of the Atlantic Ocean.

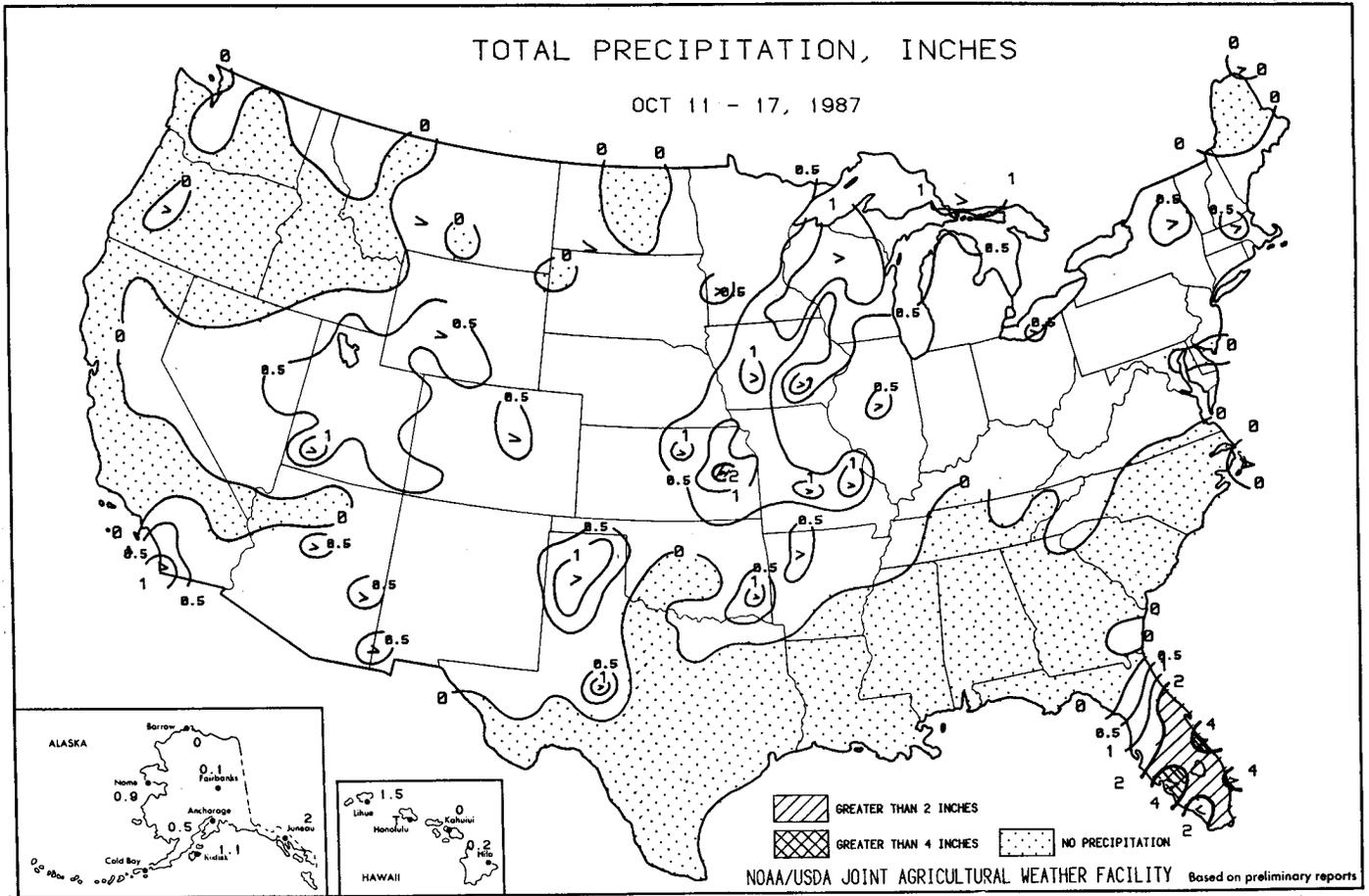
WEDNESDAY...High pressure centered over Pennsylvania resulted in another night of clear skies and widespread frost over the eastern third of the Nation. Strong gusty winds blew along the southern Atlantic coast. Skies were mostly clear over the Pacific coast, the Great Basin, and the southern Plateau. A cold front, advancing across the Mississippi Valley and central Great Plains, produced light scattered rainshowers from southern Wisconsin to eastern New Mexico. Snow fell in southern and central Wyoming, the Colorado Rockies, and the Black Hills of South Dakota.

THURSDAY...Mostly cloudy conditions prevailed from the northern Rockies to the Great Lakes. A band of rainfall with a few thunderstorms extended from the Great Lakes to west Texas. Clear skies in the East again resulted in subfreezing morning temperatures as far south as northern Florida. Daytime temperatures were seasonably mild across most of the Nation.

FRIDAY...Low temperatures accompanied clear skies in the western States. A cold front pushed southeastward across Nebraska and Colorado. Rainshowers and thunderstorms continued to move through the Midwest. The eastern third of the Nation experienced clear skies and generally pleasant weather.

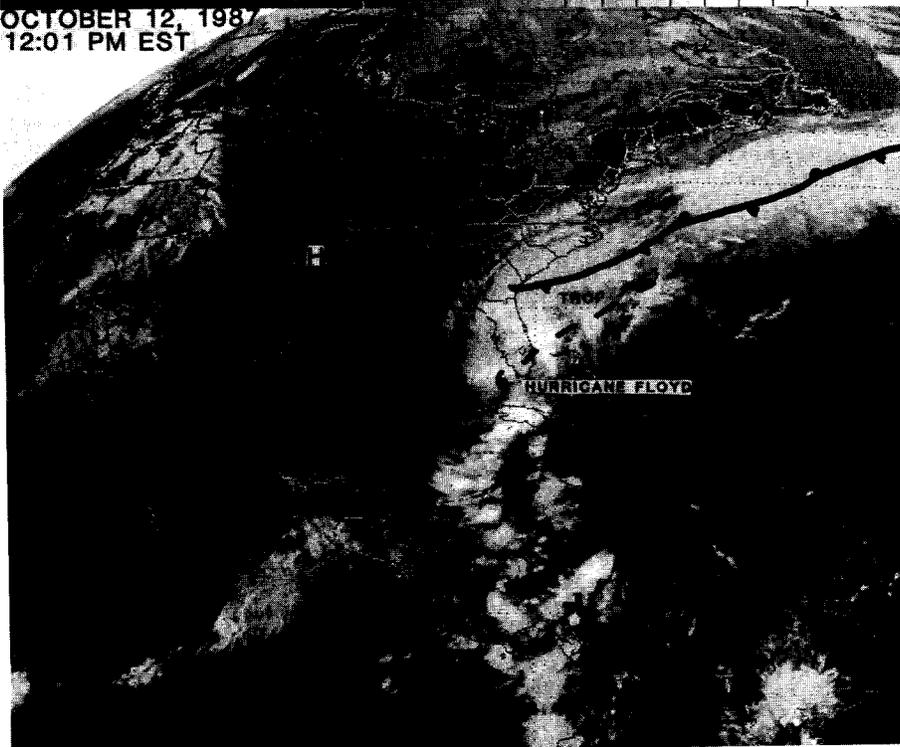
SATURDAY...Skies were mostly sunny from the Carolinas to the gulf coast, from the lower Mississippi Valley to the central Great Plains, and across much of the West. Rainshowers and thunderstorms were scattered across southern and western Texas. Rain lingered in Wisconsin and Michigan, and showers moved into the upper Ohio Valley. Most of the Nation enjoyed seasonably mild temperatures.

Contents	Page
National Weather Summary	1
Total Precipitation & North American Satellite Image	2
Crop Moisture & Crop Moisture Index	3
Drought Severity & Drought Severity Index	4
Precipitation Needed to End Drought & Extreme Minimum Temperature	5
Average Temperature & Departure	6
National Weather Data for Selected Cities	7
Heating Degree Days Summary Table	10
National Agricultural Summary	11
Crop Progress & Condition Tables	12
State Summaries of Weather and Agriculture	14
Storm Brings Widespread Damage to Western Europe	19
International Weather and Crop Summary	20
African Agricultural Summary	23
Subscription and Mailing Permit Information	24



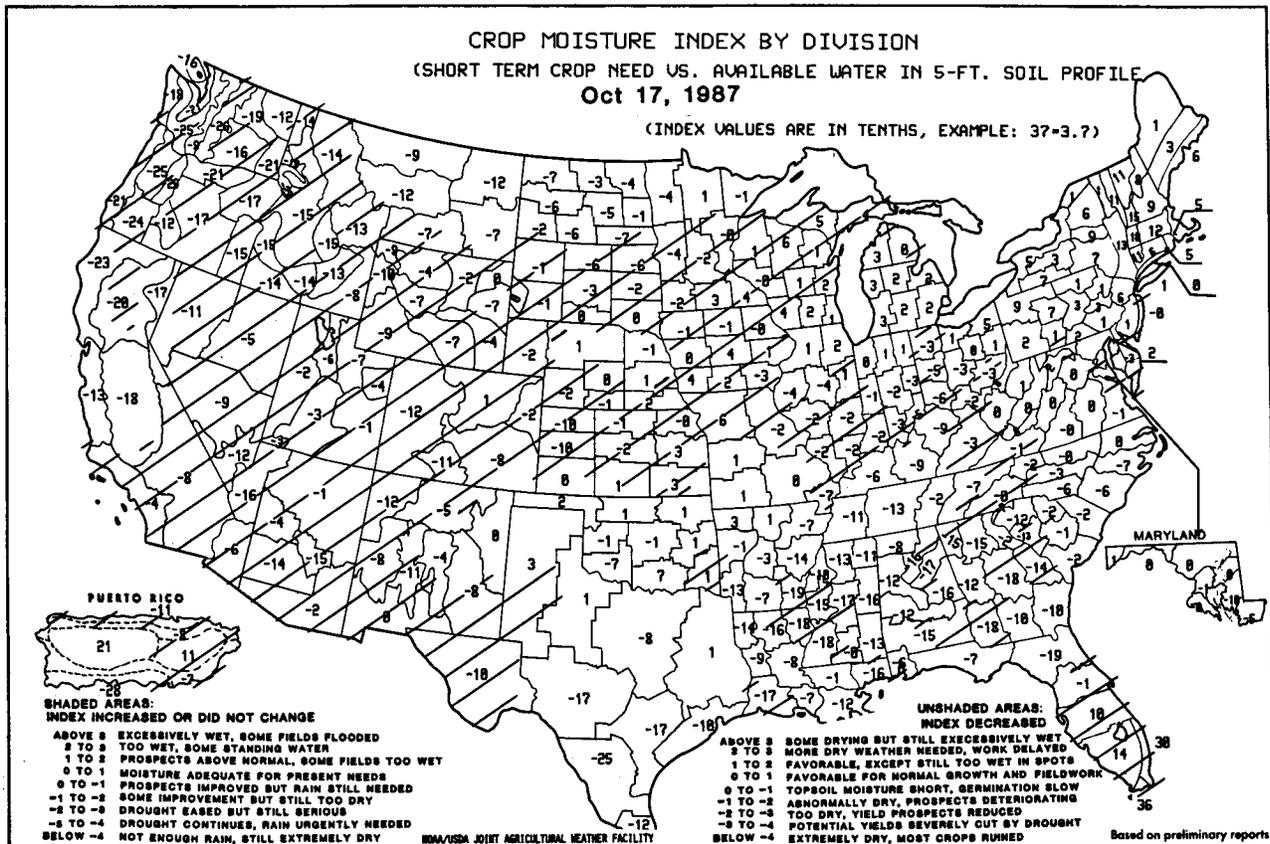
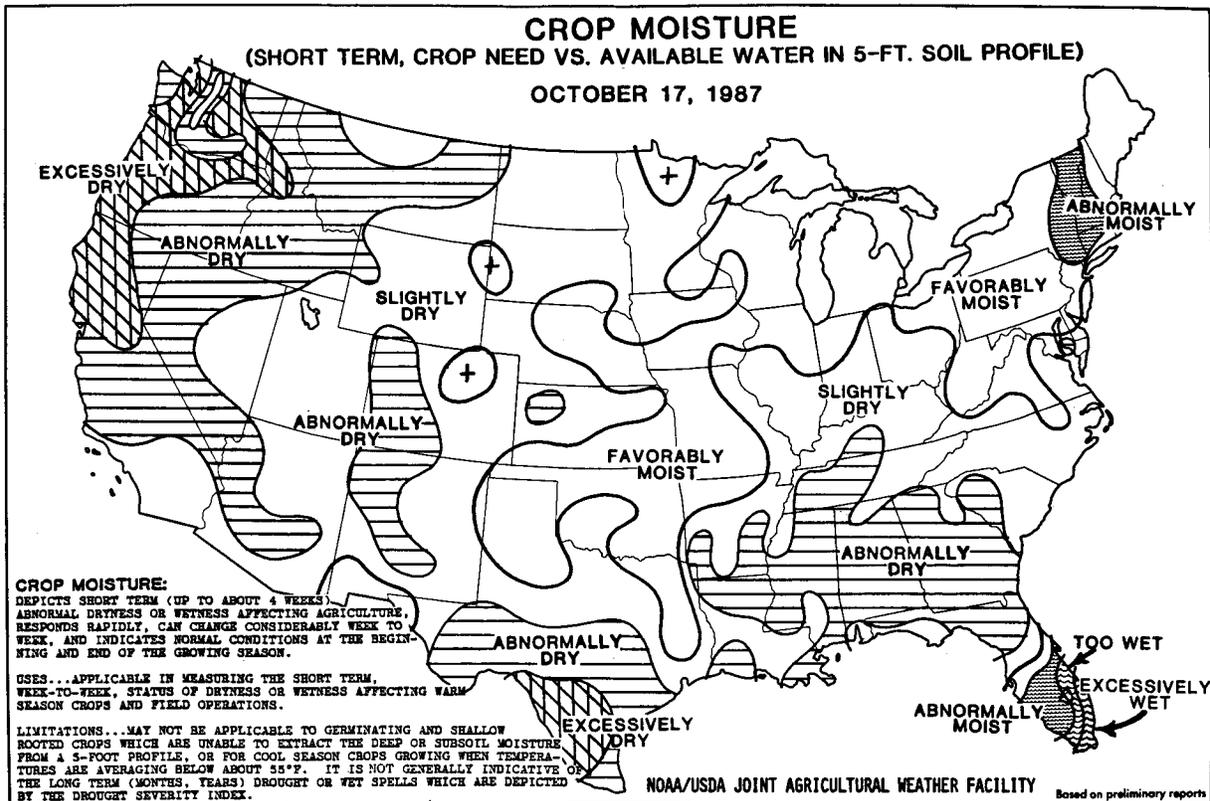
1601 120C87 39E-42A 00922 15941 EC1

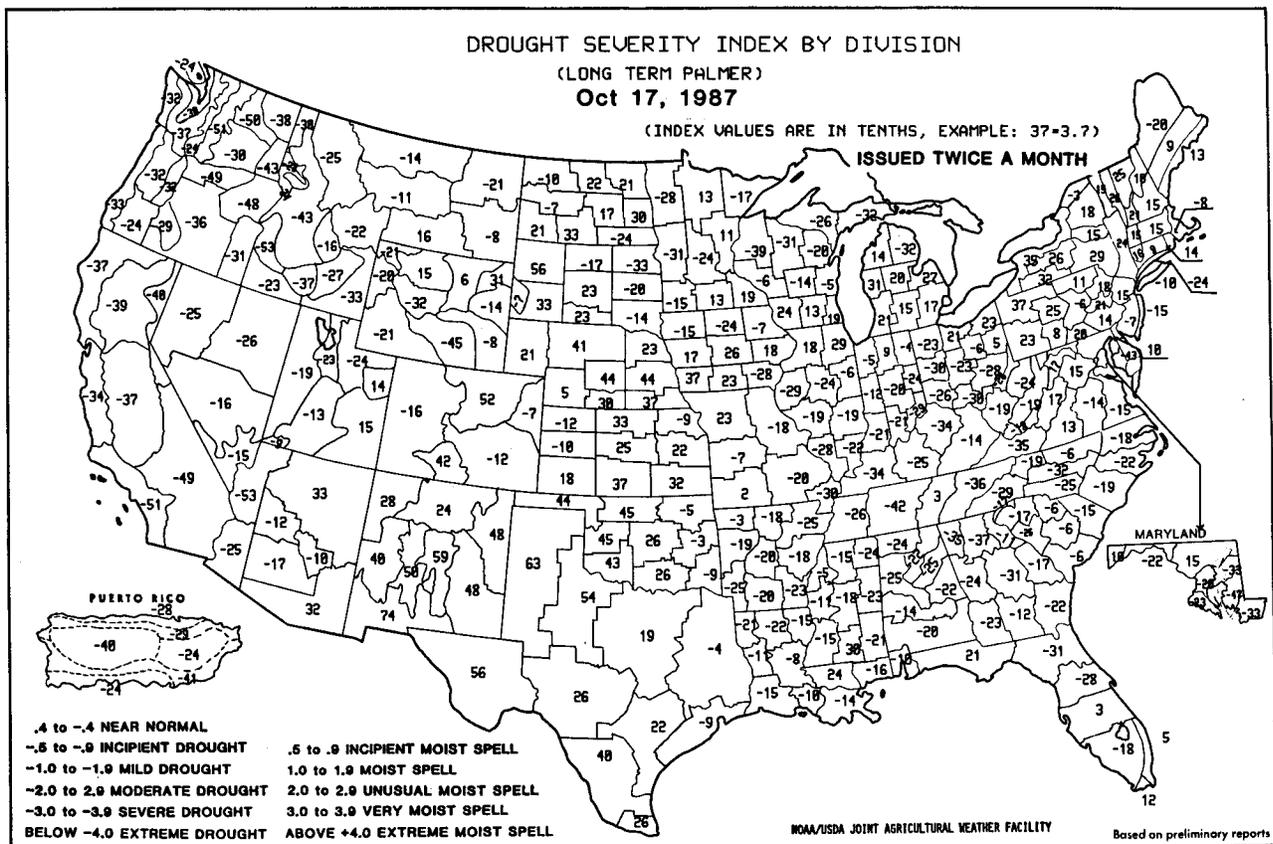
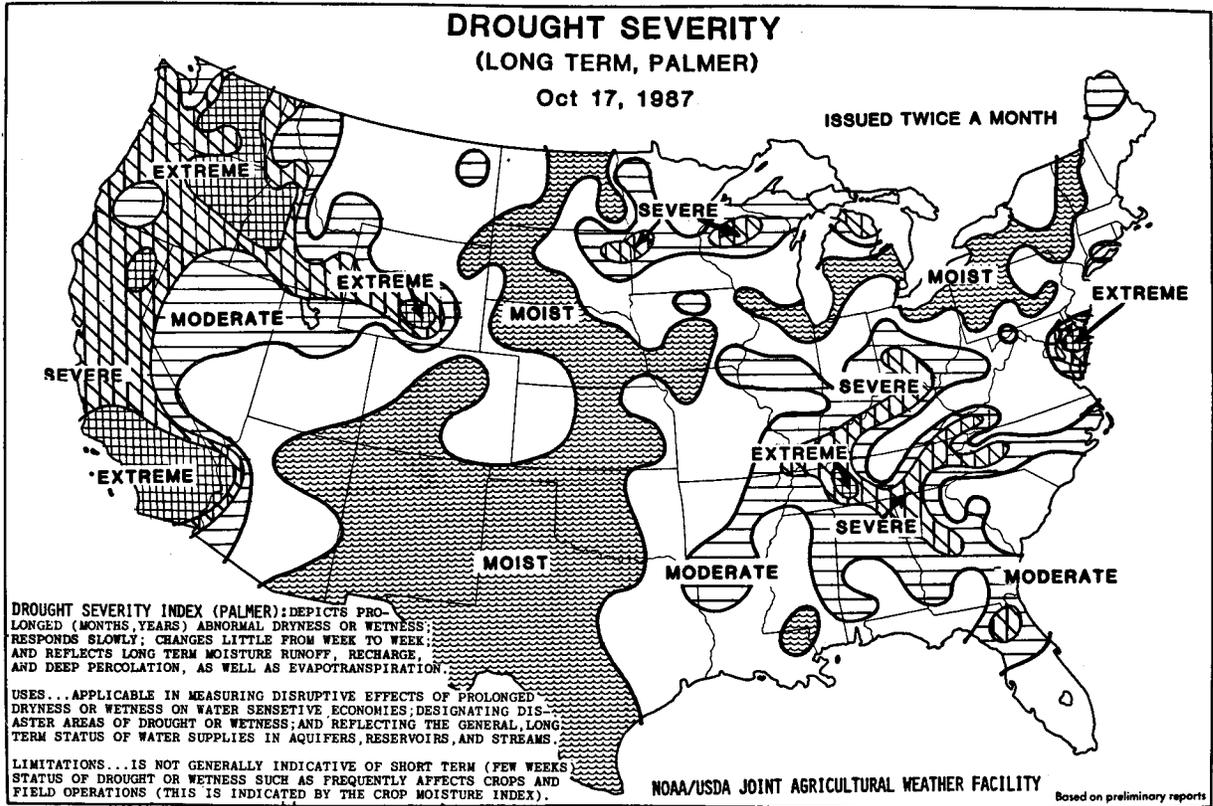
OCTOBER 12, 1987
12:01 PM EST

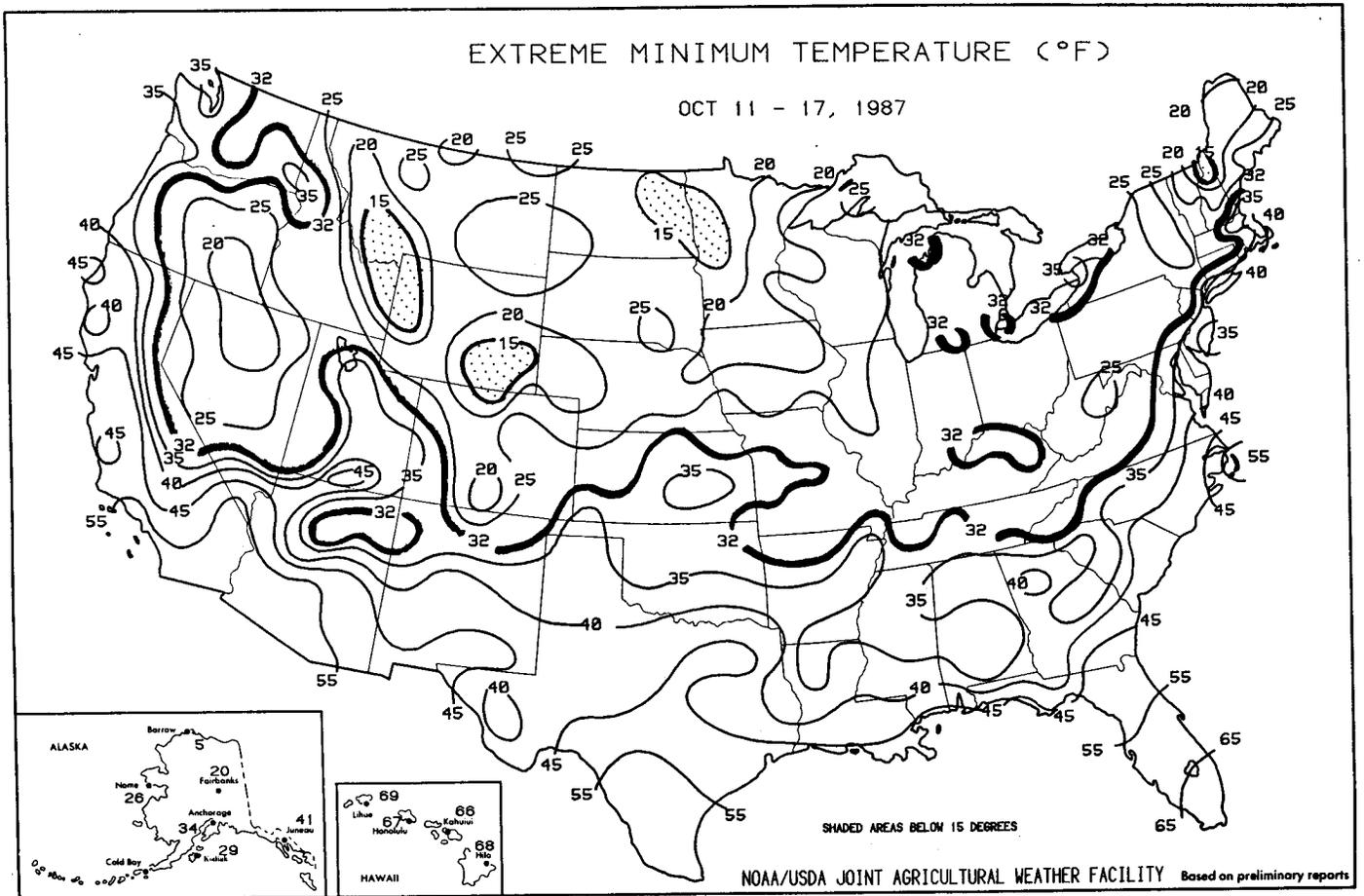
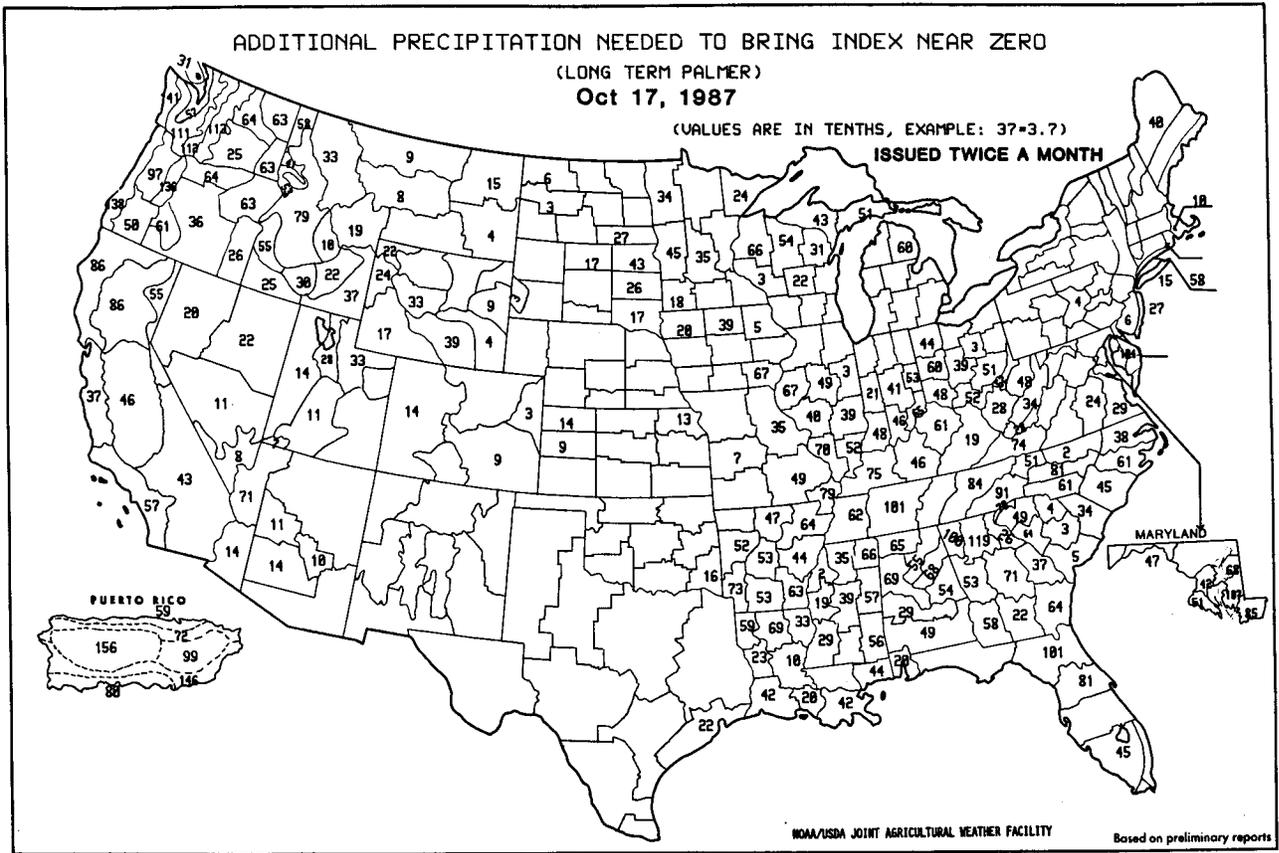


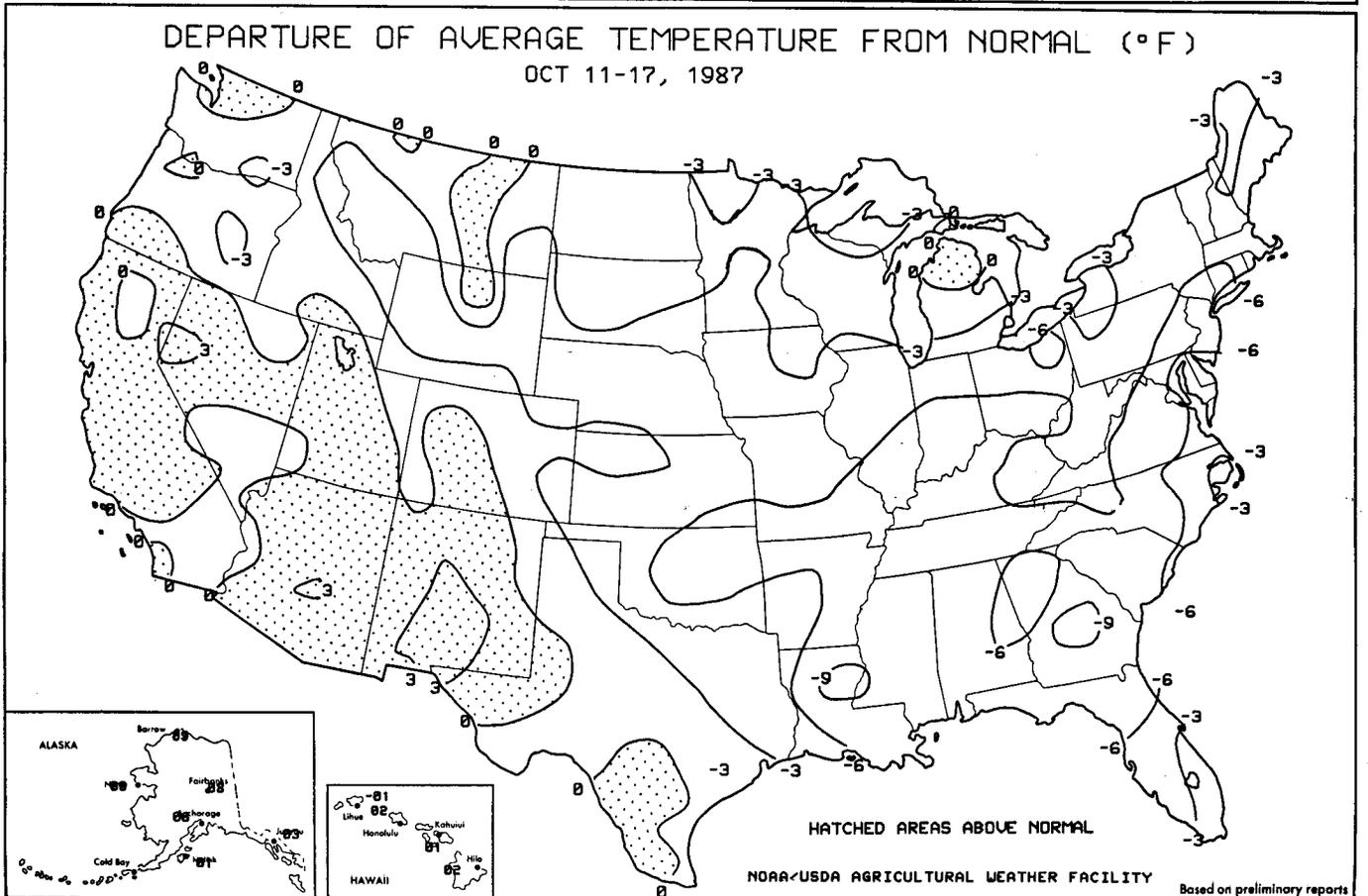
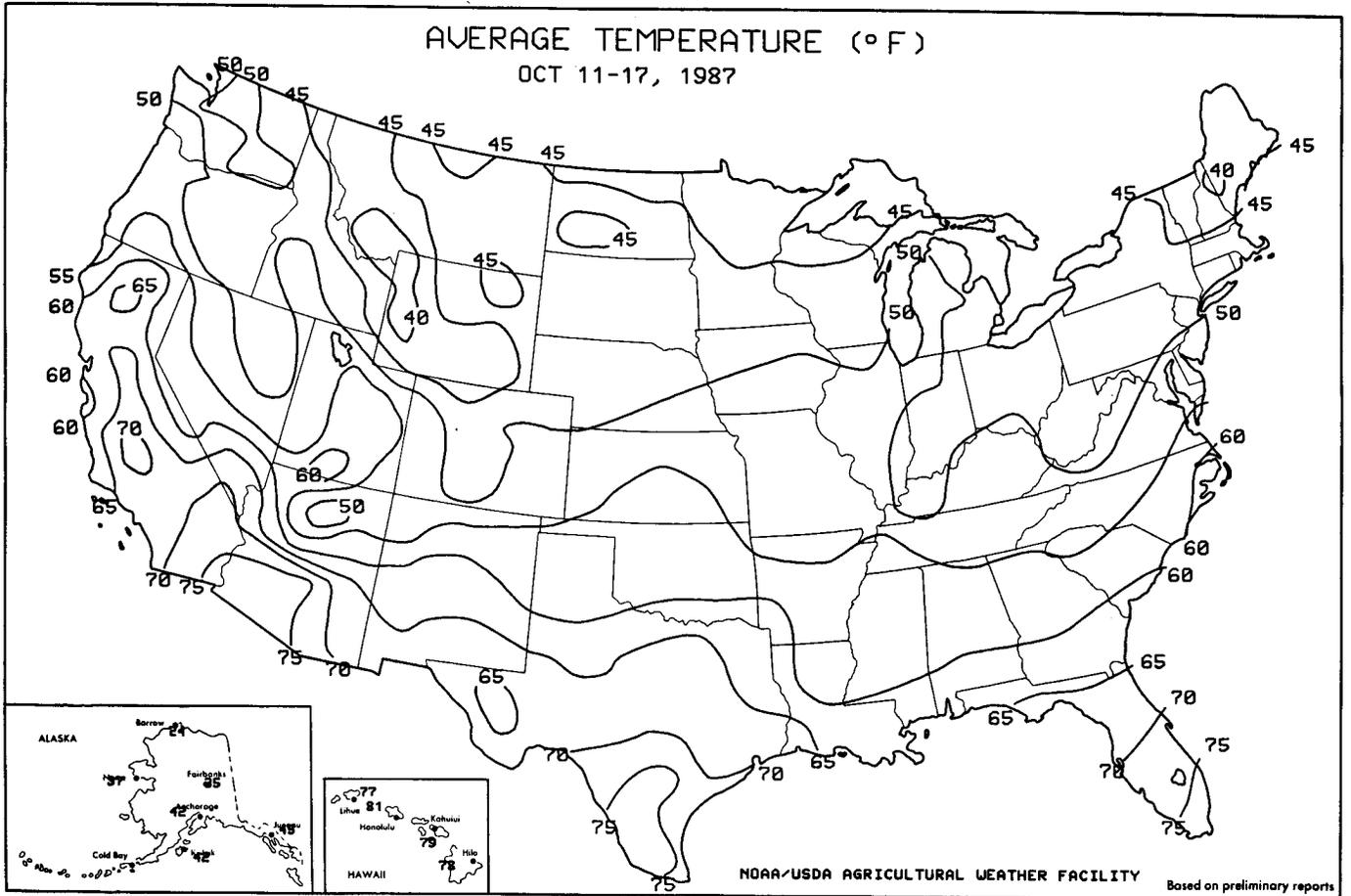
HURRICANE "FLOYD" BRINGS HEAVY RAIN TO SOUTHERN FLORIDA AND WESTERN CUBA.

MOISTURE FROM REMNANTS OF THE PACIFIC HURRICANE "RAMON" FLOWS NORTHEASTWARD INTO THE SOUTHWESTERN UNITED STATES.









National Weather Data for Selected Cities

Weather Data for the Week Ending October 17, 1987

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	74	40	80	35	57	-6	0	-6	0	3.7	63	33.4	75	84	25	0	0	0	0	
MOBILE	77	46	85	41	61	-8	0	-6	0	3.6	44	58.1	107	86	29	0	0	0	0	
MONTGOMERY	78	42	88	34	60	-6	0	-5	0	4.0	65	45.8	114	92	27	0	0	0	0	
AK ANCHORAGE	47	36	51	34	42	6	5	-1	2	3.4	99	10.7	89	96	57	0	0	4	0	
BARROW	30	19	33	5	24	9	2	-1	1	1.4	153	4.7	122	96	86	0	7	0	0	
FAIRBANKS	41	29	50	20	35	9	9	-1	1	1.7	47	5.1	59	92	58	0	5	2	0	
JUNEAU	47	43	50	41	45	3	2	-2	7	15.4	143	42.8	108	96	79	0	0	7	1	
KODIAK	50	35	53	29	42	1	1	-1	9	10.4	103	58.2	126	92	57	0	3	3	1	
NOME	41	33	43	26	37	8	8	-9	6	3.5	112	9.3	75	92	69	0	1	4	0	
AZ PHOENIX	89	67	94	65	78	4	4	1	0	1.7	69	5.4	101	60	24	4	0	1	0	
PRESCOTT	74	44	79	39	59	3	3	0	3	1.5	68	10.8	71	76	27	0	0	1	0	
TUCSON	87	58	93	54	73	2	2	-1	1	2.4	133	10.6	116	70	21	2	0	1	0	
YUMA	90	67	97	64	78	1	1	0	0	1	21	1.2	66	70	29	3	0	1	0	
AR FORT SMITH	74	41	83	34	58	-6	0	0	0	1.8	36	27.8	87	95	39	0	0	1	0	
LITTLE ROCK	68	47	76	39	58	-6	1	-6	0	5.1	88	29.4	75	71	40	0	0	2	0	
CA BAKERSFIELD	85	55	88	53	70	1	0	0	0	0	0	4.1	99	74	32	0	0	0	0	
EUREKA	59	51	62	48	55	1	0	-6	0	1	4	18.0	73	93	78	0	0	0	0	
FRESNO	83	54	87	50	68	3	0	0	0	0	0	6.7	91	85	33	0	0	0	0	
LOS ANGELES	72	61	81	58	66	0	0	0	0	1	53	3.1	36	96	68	0	0	1	0	
REDDING	86	47	90	41	66	-1	1	-4	0	0	1	19.4	71	79	20	1	0	0	0	
SACRAMENTO	82	50	86	47	66	1	1	-1	1	10	8	8.8	78	95	36	0	0	1	0	
SAN DIEGO	72	64	73	61	68	0	0	9	8	5	1.6	545	6.7	103	88	72	0	0	2	1
SAN FRANCISCO	70	53	77	51	61	0	0	0	0	0	0	8.5	65	90	56	0	0	0	0	
CO DENVER	67	34	81	28	51	-2	0	6	4	5	1.3	76	16.5	124	88	29	0	3	3	
GRAND JUNCTION	67	45	80	35	56	0	0	2	0	1	4	30	8.3	133	80	36	0	0	4	0
PUEBLO	71	34	81	24	53	-3	0	-2	0	3	27	9.4	97	77	25	0	4	1	0	
CT BRIDGEPORT	58	41	65	36	49	-7	2	2	2	3.5	70	26.6	83	88	53	0	0	1	0	
HARTFORD	60	34	71	28	47	-6	4	-4	4	9.6	165	38.4	112	94	45	0	3	1	0	
DC WASHINGTON	65	43	74	37	54	-6	0	-6	0	5.9	124	27.9	88	88	45	0	0	1	0	
FL *APALACHICOLA	78	52	84	43	65	-6	0	-7	0	5.2	48	41.4	87	83	39	0	0	0	0	
DAYTONA BEACH	75	63	79	55	69	-5	2	3	1.4	7.9	83	39.1	93	95	72	0	0	3	2	
JACKSONVILLE	74	55	83	49	64	-6	0	-9	0	7.2	81	38.0	82	91	57	0	0	0	0	
KEY WEST	80	72	83	69	76	-4	3	2	2	14.6	158	39.6	123	90	69	0	0	2	2	
MIAMI	83	69	86	66	76	-2	3	3	1.6	2.2	14.8	120	41.4	83	94	67	0	0	4	2
ORLANDO	78	63	83	56	70	-5	0	2	3	1.6	11.7	139	45.5	102	93	71	0	0	3	2
TALLAHASSEE	77	46	84	36	62	-7	0	-7	0	4.0	47	60.4	109	88	34	0	0	0	0	
TAMPA	80	60	86	52	70	-5	1	9	1.3	6.2	79	44.2	106	90	61	0	0	2	1	
WEST PALM BEACH	82	68	86	66	75	-3	2	9	1.1	2.6	16.1	115	47.3	93	96	69	0	0	5	1
GA ATLANTA	72	48	81	44	60	-3	0	-6	0	3.0	67	39.1	99	71	29	0	0	0	0	
AUGUSTA	73	40	82	34	56	-8	0	-5	0	2.0	43	35.6	97	96	32	0	0	0	0	
MACON	75	41	83	33	58	-8	0	-4	0	1.5	34	32.9	88	91	26	0	0	0	0	
SAVANNAH	72	50	81	42	61	-6	0	-5	0	8.2	123	52.8	119	83	43	0	0	0	0	
HI HILO	86	70	87	68	78	2	2	-2	0	20.1	176	98.2	103	91	57	0	0	2	0	
HONOLULU	89	73	91	67	81	2	0	-4	0	1.2	83	4.8	31	89	55	1	0	1	0	
KAHULUI	89	69	92	66	79	1	0	-2	0	9	149	21.9	171	86	49	2	0	0	0	
LIHUE	83	71	84	69	77	-1	1	5	8	6.7	149	22.1	72	94	74	0	0	4	1	
ID BOISE	68	36	75	31	52	0	0	-2	0	0	0	6.5	77	47	16	0	2	0	0	
LEWISTON	65	37	71	35	51	-2	0	-2	0	0	1	8.0	81	55	24	0	0	0	0	
POCATELLO	64	30	74	20	47	-2	1	-1	1	1	5	8.4	101	74	22	0	5	1	0	
IL CHICAGO	63	40	75	28	52	-3	3	-2	3	1.3	24	33.6	116	84	39	0	2	1	0	
MOLINE	63	38	76	24	51	-4	1	-5	1	1.2	23	29.3	92	84	36	0	3	1	0	
PEORIA	63	38	76	25	50	-4	1	-5	1	1.7	33	19.8	66	85	39	0	2	1	0	
QUINCY	66	40	78	28	53	-4	1	-6	1	1.9	30	22.2	68	80	35	0	2	1	0	
ROCKFORD	60	36	74	24	48	-5	1	-6	1	2.6	47	33.6	108	87	49	0	3	1	0	
SPRINGFIELD	64	41	76	24	53	-4	4	-2	4	1.4	30	20.3	70	79	33	0	2	1	0	
IN EVANSVILLE	66	34	77	30	50	-8	1	-4	1	2.8	71	25.0	75	96	33	0	2	1	0	
FORT WAYNE	61	36	72	26	49	-5	2	-4	2	2.1	53	26.0	92	93	38	0	3	2	0	
INDIANAPOLIS	62	35	73	27	49	-7	0	-5	0	1.8	45	25.2	79	91	37	0	2	1	0	
SOUTH BEND	61	39	72	29	50	-4	2	-6	1	5.6	112	27.2	88	87	42	0	2	3	0	
IA DES MOINES	64	39	74	21	51	-4	2	-3	2	1.7	38	30.4	112	89	44	0	2	3	0	
SIOUX CITY	61	36	79	19	49	-5	2	-2	1	1.6	46	23.1	100	86	46	0	0	4	0	
WATERLOO	63	38	74	16	50	-2	5	-1	3	2.3	48	27.4	94	89	43	0	3	3	0	
KS CONCORDIA	67	42	75	33	54	-4	6	1	6	2.1	51	31.3	127	84	38	0	0	1	1	
DODGE CITY	69	41	80	32	55	-4	5	2	5	2.0	77	22.5	121	86	40	0	1	1	0	
GOODLAND	69	36	79	25	53	-1	0	-2	0	1.5	78	18.3	124	66	24	0	2	1	0	
TOPEKA	69	40	76	31	55	-4	9	2	4	2.7	52	32.3	111	91	38	0	2	2	0	
WICHITA	68	42	78	34	55	-5	5	-1	5	2.9	58	34.7	138	91	43	0	0	0	0	
KY BOWLING GREEN	68	34	74	29	51	-8	0	-6	0	3.5	74	32.7	83	98	36	0	3	0	0	
LEXINGTON	65	38	76	32	52	-6	2	-4	2	1.1	25	27.5	73	83	35	0	1	1	0	
LOUISVILLE	66	37	76	34	52	-7	1	-5	1	1.4	30	25.2	72	86	33	0	0	2	0	
LA ALEXANDRIA	74	42	78	35	58	-10	0	-7	0	1.5	33	39.9	95	95	38	0	0	0	0	
BATON ROUGE	80	47	86	42	63	-6	0	-6	0	8	13	52.8	116	90	33	0	0	0	0	
LAKE CHARLES	80	50	86	43	65	-5	0	-8	0	3.9	49	48.0	111	92	36	0	0	0	0	
NEW ORLEANS	76	49	83	44	63	-7	0	-6	0	1.4	18	54.1	110	98	40	0	0	0	0	

Based on 1951-80 normals.

Weather Data for the Week Ending October 17, 1987

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
SHREVEPORT	78	48	83	39	63	-5	0	-6	0	1.0	20	29.7	85	88	33	0	0	0	0
ME CARIBOU	53	29	63	21	41	-3	T	-7	T	5.4	103	22.7	79	90	37	0	5	0	0
PORTLAND	56	33	66	28	44	-5	.3	-6	.3	6.3	121	34.1	106	95	47	0	4	1	0
MD BALTIMORE	63	41	72	33	52	-6	T	-7	T	8.1	157	32.4	96	91	49	0	0	0	0
SALISBURY	67	40	76	35	53	-5	T	-8	T	5.2	86	30.3	82	96	48	0	0	1	0
MA BOSTON	57	44	62	40	50	-5	.5	-3	.5	9.5	184	39.4	118	87	55	0	0	1	0
CHATHAM	55	45	60	40	50	-4	.3	-6	.3	10.0	175	42.1	118	86	70	0	0	2	0
MI ALPENA	59	38	69	25	49	0	.6	-2	.6	4.6	108	19.6	82	94	47	0	3	2	1
DETROIT	60	38	72	32	49	-4	.2	-3	.2	3.4	100	29.2	117	94	38	0	1	2	0
FLINT	60	38	70	28	49	-2	.1	-4	.1	6.0	173	21.9	93	93	45	0	2	1	0
GRAND RAPIDS	61	38	71	27	50	-2	.2	-4	.2	5.1	108	25.6	95	85	40	0	3	1	0
HOUGHTON LAKE	59	39	70	25	49	1	.2	-4	.2	5.2	128	19.5	85	87	44	0	1	1	0
LANSING	61	37	71	26	49	-2	.1	-3	.1	5.2	128	22.7	94	85	39	0	3	1	0
MARQUETTE	52	33	62	20	43	-6	.6	0	.5	5.8	110	27.6	110	97	54	0	3	2	1
MUSKEGON	58	42	67	29	50	-2	.5	-2	.3	5.1	114	25.2	102	85	51	0	3	2	0
SAULT ST. MARIE	56	36	64	27	46	0	1.3	-6	1.0	5.2	95	22.8	87	95	55	0	3	2	1
MN ALEXANDRIA	56	36	70	27	46	-2	.4	0	.2	2.9	86	15.3	70	82	49	0	2	2	0
DULUTH	52	34	65	22	43	-2	.2	-3	.1	3.7	81	17.6	69	88	49	0	2	2	0
INT'L FALLS	52	32	68	24	42	-2	.2	-3	.1	1.8	41	18.2	85	86	49	0	3	2	0
MINNEAPOLIS	59	38	74	23	49	-2	.5	-1	.3	1.9	53	28.9	124	87	48	0	2	3	0
ROCHESTER	57	37	70	20	47	-3	1.4	-9	1.2	3.5	72	23.5	94	91	55	0	3	3	1
MS GREENWOOD	74	41	80	33	57	-7	0	-6	0	1.0	21	31.6	76	83	27	0	0	0	0
JACKSON	77	40	85	35	58	-7	0	-5	0	1.5	32	39.3	95	93	26	0	0	0	0
MERIDIAN	76	37	83	33	56	-8	0	-6	0	4.4	88	46.7	108	97	28	0	0	0	0
MO CAPE GIRARDEAU	68	37	78	29	53	-1	.1	-4	.1	4.0	78	29.4	81	95	30	0	2	2	0
COLUMBIA	66	39	76	29	52	-6	.3	-5	.3	3.7	63	23.8	76	86	36	0	2	1	0
KANSAS CITY	67	41	77	27	54	-6	.8	0	.7	4.5	71	29.5	93	87	41	0	1	2	1
SAINT LOUIS	66	43	77	31	55	-4	.3	-3	.3	2.7	69	26.3	94	82	36	0	1	1	0
SPRINGFIELD	66	39	76	27	53	-7	.2	-5	.2	5.1	83	36.7	112	87	45	0	2	2	0
MT BILLINGS	61	38	72	27	50	-1	T	-3	T	.7	35	11.8	92	55	22	0	1	0	0
GLASGOW	61	33	79	24	47	0	T	-1	T	.7	56	9.2	92	65	24	0	4	1	0
GREAT FALLS	61	33	71	26	47	-2	T	-2	T	1.4	93	13.5	102	59	17	0	5	1	0
HAVRE	61	27	75	19	44	-4	T	-1	T	.8	56	7.8	74	68	21	0	6	1	0
HELENA	60	26	65	21	43	-3	.1	-1	.1	.9	71	9.5	95	86	25	0	6	1	0
KALISPELL	58	24	62	20	41	-2	T	-2	T	.6	38	13.4	107	91	32	0	6	1	0
MILES CITY	60	34	78	27	47	-2	T	-2	T	.8	52	12.0	95	66	29	0	3	1	0
MISSOULA	59	24	67	20	41	-4	T	-2	T	.1	7	8.8	83	77	26	0	7	1	0
NE GRAND ISLAND	65	35	75	22	50	-5	.1	-2	0	1.3	41	23.1	109	87	41	0	4	2	0
LINCOLN	65	36	76	21	51	-4	.4	0	.4	3.6	91	29.3	119	94	44	0	3	1	0
NORFOLK	62	33	75	18	48	-5	.1	-2	.1	3.3	113	25.5	117	93	44	0	3	2	0
NORTH PLATTE	64	28	75	20	46	-5	.1	-1	.1	1.3	60	16.8	94	86	27	0	5	2	0
OMAHA	63	40	76	23	51	-4	.7	-2	.6	2.3	47	29.8	109	88	48	0	1	3	1
SCOTTSBLUFF	66	29	77	16	47	-4	.1	-1	.1	1.6	106	21.8	164	79	20	0	5	1	0
VALENTINE	63	31	74	22	47	-4	.5	-3	.5	.9	43	18.8	118	79	30	0	5	1	0
NV ELY	65	31	75	26	48	1	.8	-7	.4	.8	80	9.5	129	87	34	0	5	2	0
LAS VEGAS	81	56	88	53	69	0	T	-1	T	0	3.4	109	60	24	0	0	0	0	0
RENO	75	35	80	30	55	4	.1	-1	.1	.1	33	6.2	118	78	18	0	4	1	0
WINNEMUCCA	73	30	82	20	52	2	0	-1	0	T	0	6.9	119	41	15	0	4	0	0
NH CONCORD	58	30	68	21	44	-5	.4	-3	.4	6.4	134	31.1	111	95	39	0	5	1	0
NJ ATLANTIC CITY	64	37	73	33	51	-6	T	-7	T	4.8	107	35.6	108	95	47	0	0	0	0
NM ALBUQUERQUE	76	49	84	41	62	3	.2	0	.1	.4	28	7.3	110	78	25	0	0	2	0
CLOVIS	72	45	83	39	59	-1	.5	0	.4	3.8	128	22.6	148	82	37	0	0	1	0
ROSWELL	78	50	87	44	64	3	.2	0	.2	1.0	42	14.2	149	88	38	0	0	1	0
NY ALBANY	59	33	70	26	46	-5	.4	-3	.4	9.8	203	31.8	113	98	43	0	4	1	0
BINGHAMTON	55	35	68	27	45	-4	.3	-4	.3	5.5	110	28.9	98	94	51	0	3	1	0
BUFFALO	60	40	71	35	50	-2	.2	-4	.1	6.7	138	33.7	117	91	43	0	0	3	0
NEW YORK	60	45	69	42	53	-6	.2	-6	.2	6.2	119	37.9	112	89	54	0	0	1	0
ROCHESTER	61	37	75	31	49	-4	.2	-3	.2	5.6	138	28.0	113	97	42	0	2	1	0
SYRACUSE	61	34	72	29	48	-5	.4	-3	.4	7.4	150	27.0	88	93	43	0	4	1	0
NC ASHEVILLE	67	33	74	27	50	-7	.1	-7	.1	6.9	123	37.6	104	97	35	0	5	1	0
CHARLOTTE	69	43	80	40	56	-6	0	-6	0	6.8	134	31.1	88	81	35	0	0	0	0
GREENSBORO	67	38	80	33	52	-7	T	-7	T	7.4	135	40.2	115	89	36	0	0	0	0
HATTERAS	69	59	75	56	64	-2	.3	-8	.2	8.2	97	53.1	120	93	67	0	0	3	0
NEW BERN	72	50	82	45	61	-3	0	-8	0	2.4	31	44.0	98	87	50	0	0	0	0
RALEIGH	67	40	76	35	54	-7	0	-6	0	6.3	132	36.8	107	92	40	0	0	0	0
WILMINGTON	72	49	81	44	61	-5	T	-7	T	6.4	86	43.7	96	87	52	0	0	0	0
ND BISMARK	61	29	76	23	45	-2	T	-2	T	.3	16	16.9	122	84	38	0	5	2	0
FARGO	57	33	67	26	45	-3	.1	-2	0	1.8	68	13.8	79	80	42	0	3	2	0
GRAND FORKS	58	29	67	25	44	-3	.1	-2	.1	1.9	69	17.9	109	86	39	0	0	1	0
WILLISTON	60	31	76	22	45	-2	.1	-1	0	.7	38	11.4	93	71	25	0	4	2	0
OH AKRON-CANTON	59	36	70	31	48	-6	.4	-2	.2	3.6	87	25.4	86	87	40	0	1	2	0
CINCINNATI	63	36	74	31	49	-7	.1	-5	.1	2.1	50	26.9	82	92	36	0	2	1	0
CLEVELAND	59	37	71	31	48	-6	.5	-1	.3	4.7	110	33.2	116	91	43	0	2	2	0
COLUMBUS	63	36	73	30	49	-6	.1	-3	.1	2.7	71	21.8	71	96	35	0	2	2	0

Based on 1951-80 normals.

Weather Data for the Week Ending, October 17, 1987

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			
																90 AND ABOVE	52 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
DAYTON	62	37	73	30	49	-6	.1	-.4	.1	1.1	31	19.5	68	85	34	0	1	2	0
TOLEDO	61	34	71	25	48	-5	.3	-.2	.3	3.2	91	23.1	90	98	38	0	3	1	0
YOUNGSTOWN	59	34	71	28	47	-6	.2	-.4	.1	5.6	125	33.4	110	97	46	0	3	2	0
OK OKLAHOMA CITY	70	44	75	34	57	-6	0	-.6	0	4.6	90	37.1	137	83	44	0	0	0	0
TULSA	70	44	78	34	57	-7	.1	-.7	.1	3.6	56	33.8	103	84	40	0	0	1	0
OR ASTORIA	65	39	78	36	52	-1	0	-1.3	0	1.0	16	33.6	75	95	55	0	0	0	0
BURNS	69	25	73	19	47	-2	0	-.2	0	T	2	7.1	89	**	**	0	6	0	0
MEDFORD	78	38	82	34	58	3	0	-.4	0	0	0	9.4	76	83	21	0	0	0	0
PENDLETON	65	34	69	15	50	-4	0	-.2	0	T	3	5.7	67	55	23	0	2	0	0
PORTLAND	70	41	81	38	56	1	T	-.7	T	.3	10	19.8	83	93	36	0	0	0	0
SALEM	70	36	82	32	53	-1	0	-.7	0	.1	5	22.0	86	91	33	0	2	0	0
PA ALLENTOWN	61	35	71	30	48	-6	.2	-.5	.2	10.1	177	39.4	112	93	46	0	2	1	0
ERIE	59	41	72	34	50	-3	.3	-.6	.1	8.9	150	36.8	118	88	45	0	0	3	0
HARRISBURG	61	36	69	31	48	-7	.2	-.5	.2	9.1	177	30.7	98	96	47	0	3	1	0
PHILADELPHIA	63	41	74	35	52	-5	T	-.6	T	3.9	79	28.2	85	89	46	0	0	1	0
PITTSBURGH	61	36	73	28	49	-5	.1	-.5	0	4.6	113	34.4	114	97	39	0	2	2	0
SCRANTON	59	34	73	29	47	-6	.4	-.2	.4	9.4	196	34.8	124	97	43	0	4	1	0
RI PROVIDENCE	60	38	71	32	49	-5	.3	-.6	.3	8.6	157	34.0	98	97	49	0	1	1	0
SC CHARLESTON	69	51	78	44	60	-6	0	-.7	0	14.6	217	50.4	112	82	49	0	0	0	0
COLUMBIA	71	39	79	32	55	-9	0	-.6	0	5.3	91	47.2	112	96	37	0	2	0	0
FLORENCE	70	46	77	41	58	-6	0	-.5	0	4.2	75	31.6	84	85	36	0	0	0	0
GREENVILLE	70	39	82	36	54	-7	0	-.8	0	3.2	49	36.9	87	94	35	0	0	0	0
SD ABERDEEN	60	34	72	20	47	-2	.2	0	.1	1.5	74	11.4	70	80	34	0	3	3	0
HURON	59	35	72	23	47	-3	.4	0	.3	1.8	82	17.4	104	88	45	0	3	2	0
RAPID CITY	63	34	75	22	49	-2	.1	-.1	.1	.9	57	11.7	79	76	24	0	3	2	0
SIoux FALLS	60	34	75	20	47	-4	.1	-.3	.1	2.1	57	15.3	70	88	48	0	2	2	0
TN CHATTANOOGA	71	38	79	33	54	-7	0	-.6	0	4.0	68	39.8	95	95	34	0	0	0	0
KNOXVILLE	69	34	77	28	52	-9	0	-.6	0	T	T	T	79	97	34	0	2	0	0
MEMPHIS	71	42	79	37	57	-7	T	-.5	T	1.0	21	28.4	69	82	32	0	0	1	0
NASHVILLE	67	39	76	33	53	-8	T	-.6	T	2.0	38	21.0	54	96	36	0	0	0	0
TX ABILENE	77	53	85	43	65	-2	T	-.5	T	2.1	48	21.2	105	79	43	0	0	0	0
AMARILLO	68	43	82	37	56	-4	1.1	.8	1.0	4.5	176	19.7	114	93	45	0	0	2	1
AUSTIN	82	58	89	51	70	-1	T	-.8	T	5.0	91	32.0	125	90	41	0	0	0	0
BEAUMONT	80	53	86	45	66	-4	0	-.8	0	11.4	153	51.9	117	97	46	0	0	0	0
BROWNSVILLE	84	63	86	59	74	-2	.2	-.7	.2	4.9	65	20.3	95	96	53	0	0	1	0
CORPUS CHRISTI	86	62	89	60	74	-1	0	-.6	0	1.0	12	26.6	97	92	44	0	0	0	0
DEL RIO	81	60	83	56	70	-1	0	-.5	0	.1	3	20.3	136	74	39	0	0	0	0
EL PASO	82	55	88	52	69	4	.3	-.2	.3	1.2	66	7.9	118	76	28	0	0	2	0
FORT WORTH	78	52	84	43	65	-4	T	-.7	T	1.4	27	20.1	77	84	37	0	0	0	0
GALVESTON	77	66	83	59	72	-2	T	-.6	T	4.5	58	30.5	93	82	53	0	0	0	0
HOUSTON	81	54	87	45	68	-3	0	-.9	0	3.5	47	32.6	87	97	46	0	0	0	0
LUBBOCK	75	47	85	40	61	-1	.6	.2	.6	3.3	106	17.6	111	96	45	0	0	2	1
MIDLAND	80	51	87	44	66	0	.3	0	.3	1.7	57	13.6	114	87	36	0	0	1	0
SAN ANGELO	78	52	87	42	65	-2	.2	-.3	.2	4.0	94	28.9	185	90	45	0	0	1	0
SAN ANTONIO	84	59	87	52	72	1	0	-.7	0	2.2	42	32.8	137	90	40	0	0	0	0
VICTORIA	84	58	89	51	71	-2	0	-.8	0	3.2	38	35.0	112	97	47	0	0	0	0
WACO	80	53	87	41	67	-3	0	-.7	0	5.7	116	26.2	103	87	36	0	0	0	0
WICHITA FALLS	76	46	84	39	61	-5	T	-.6	T	2.2	44	28.1	123	85	37	0	0	0	0
UT BLANDING	63	42	76	36	53	0	.8	.5	.7	1.6	92	15.0	169	92	65	0	0	2	1
CEDAR CITY	66	40	76	29	53	0	1.3	1.1	.6	1.6	119	9.0	108	93	40	0	1	3	1
SALT LAKE CITY	66	43	73	36	55	1	.9	.6	.7	.9	62	9.9	82	75	31	0	0	2	1
VT BURLINGTON	57	33	68	25	45	-4	0	-.4	.2	4.8	101	21.9	81	92	41	0	5	1	0
VA NORFOLK	66	50	75	43	58	-4	0	-.8	0	7.8	125	37.9	101	87	52	0	0	0	0
RICHMOND	66	39	79	34	52	-7	T	-.8	T	4.9	88	33.5	94	94	44	0	0	1	0
ROANOKE	65	35	75	28	50	-8	.5	-.3	.3	11.7	231	44.0	138	95	40	0	3	2	0
WA COLVILLE	59	31	68	28	45	-3	.2	0	.2	.6	41	13.1	106	80	37	0	5	2	0
QUILLAYUTE	65	35	79	32	50	-1	0	-.3	0	2.0	17	56.8	80	98	53	0	1	0	0
SEATTLE-TACOMA	63	43	76	39	53	0	T	-.7	T	.9	26	20.3	82	95	49	0	0	1	0
SPOKANE	61	32	68	27	46	-2	T	-.2	T	T	3	11.3	99	80	27	0	4	1	0
YAKIMA	67	29	72	26	48	-3	0	-.1	0	0	0	4.6	86	82	29	0	7	0	0
WV BECKLEY	62	34	73	26	48	-4	T	-.6	T	3.5	68	32.0	91	89	35	0	4	1	0
CHARLESTON	64	35	75	29	50	-7	.2	-.4	.2	4.3	98	29.9	86	99	40	0	3	1	0
HUNTINGTON	65	34	76	28	50	-8	.1	-.5	.1	2.4	56	25.9	77	99	38	0	3	1	0
PARKERSBURG	63	35	73	29	49	-8	T	-.6	T	3.1	74	20.8	66	99	36	0	2	0	0
WI GREEN BAY	58	38	65	21	48	-1	1.0	.5	.7	2.7	62	17.5	73	97	50	0	3	3	1
LACROSSE	61	39	73	22	50	-2	.2	-.3	.1	2.3	48	28.7	108	91	43	0	3	2	0
MADISON	60	38	72	23	49	-2	.4	-.1	.4	4.2	97	25.4	96	94	46	0	3	2	0
MILWAUKEE	60	41	71	29	51	-1	.2	-.3	.2	2.5	61	30.3	117	89	48	0	2	2	0
WAUSAU	56	37	67	23	47	-2	1.1	.6	.7	3.8	72	20.3	74	93	49	0	3	3	0
WY CASPER	62	28	75	20	45	-3	.1	-.1	.1	.7	60	11.3	117	79	28	0	6	3	0
CHEYENNE	61	30	71	22	46	-3	.1	-.1	0	1.1	72	13.8	114	80	30	0	5	2	0
LANDER	59	30	67	25	44	-4	.9	.6	.7	1.2	78	13.2	118	78	30	0	5	2	1
SHERIDAN	58	31	75	26	45	-3	.1	-.1	.1	2.1	113	13.1	101	83	30	0	5	1	0
PR SAN JUAN	92	76	97	74	84	2	.8	-.5	.4	3.1	34	45.1	109	90	76	4	0	1	0

Based on 1951-80 normals.

Heating Degree Days Summary

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

LAST DATE OF DATA COLLECTION PERIOD IS 10-17-1987
ACCUMULATIONS ARE FROM JULY 1
** = NORMAL LESS THAN 10% OR RATIO INCALCULABLE

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

National Agricultural Summary

October 12 to 18, 1987

HIGHLIGHTS: Corn and soybean harvests soared toward completion in most areas of the Nation. Rain slowed harvest in a few Corn Belt States. Inadequate moisture continued hampering winter wheat seeding, germination, and growth in the central Great Plains, Corn Belt, Delta, Southeast, and Pacific Northwest. Days suitable for fieldwork averaged 5 to 6 days in most areas of the Nation. Inadequate moisture existed throughout most of the eastern half of the Nation and the Pacific Northwest.

Winter wheat seeding advanced 8 percentage points to 87 percent(%) completion. Seeding was 13 points ahead of normal. Sixty-nine percent was emerged compared with 55% normally. Corn harvest leaped 16 points above the previous week to 76% completion. Normally 38% would be harvested, and 34% was harvested in 1986. Soybean harvest was 77% finished compared with 43% average. Harvest registered a 12-point increase while Michigan leaped 30 points from the previous week. Sorghum was 74% harvested, 22 points above normal. Forty-six percent of the cotton acreage was picked, compared with 32% average. Slow maturity in New Mexico, Texas, and Oklahoma restricted progress to a 7-point increase. Rice was 96% harvested, 4 points ahead of average. Livestock was mostly good.

SMALL GRAINS: Winter wheat was mostly good to fair, but dry weather hampered growth in the central Great Plains, Delta, Southeast, and Pacific Northwest. Seeding reached 87% completion, 16 points above 1986 and 13 points above the 74% average. Seeding was finished or neared completion in Colorado, Kansas, Montana, Nebraska, New Mexico, Oklahoma, and South Dakota. Sixty-nine percent of the acreage was emerged, compared with 61% in 1986 and 55% normally. Inadequate moisture delayed small grain seeding in Alabama and Georgia. Wheat seeding advanced rapidly in Arkansas, but moisture is needed for germination and emergence. Wheat streak mosaic disease was present in all but the eastern third of Kansas. The incidence and severity of leaf rust varied but was present Statewide. Rain is needed in most areas to assure emergence. Rain and snow helped winter wheat in Nebraska, but stress was still evident from the lack of moisture. Dry weather continued hampering small grain seeding in Oregon and Washington. Emerged fields began reflecting moisture stress.

CORN: Corn harvest surged 16 points ahead of the previous week reaching 76% completion. Harvest doubled the 38% average and was 32 points above 1986. Harvest was ahead of normal in all major producing States except Colorado, Georgia, and North Carolina. A 15-point increase or more was registered from the previous week in 8 of the 17 major producing States. Corn ear droppage continued in Nebraska because of wind and corn borer damage.

SOYBEANS: Ninety-four percent of the soybean acreage had reached the leaf dropping stage, slightly ahead of 1986 and the average. Seventy-seven percent of the acreage was combined, 40 points greater than in 1986 and 34 points above average. Harvest was nearing completion in the Corn Belt, northern Great Plains, and Nebraska. Significant harvest gains of 15 points or more were registered in Arkansas, Kansas, Michigan, Mississippi, Missouri, Nebraska, and Tennessee. Frosty nights encouraged rapid soybean maturity and drying in Arkansas, and ended growth of double crop soybeans in Kentucky. The dry weather caused some soybean pod splitting in Nebraska.

SORGHUM: Sorghum was mature except in Kansas, Oklahoma, and Texas. Dryland sorghum production may be limited by hard freeze in the Panhandle of Oklahoma. Harvest 14 points ahead of the previous week at 74% completion. This compares with 49% harvested in 1986 and 52% average. Harvest was virtually finished in the Delta, Corn Belt, and northern Great Plains and ahead of normal in all States except Oklahoma.

COTTON: Cotton bolls were mostly open except in Oklahoma and Texas. Freeze damaged late-planted cotton in Oklahoma bottomlands. In Texas, cool nights slowed cotton progress, but warm days allowed cotton to mature. Arizona's cotton harvest was brisk, but light showers interrupted harvest in western and southern areas. Hail lightly damaged cotton in some southern areas. Arkansas' cotton gins were backlogged. In the 14 major producing States, cotton harvest reached 46% completion, 14 points above the 32% average. Harvest was ahead of normal except in Texas and New Mexico. Near ideal weather conditions pushed harvest 7 points ahead of the previous week, and Arizona registered a 31-point increase.

OTHER CROPS: Rice was 96% harvested, compared with 95% in 1986 and 92% normally. California harvest reached 80% completion, 20 points ahead of normal. A few acres remained to be harvested in Arkansas.

Peanut digging continued lagging behind normal in all southeastern States except Georgia. Digging reached 91% completion in Georgia, 2 points ahead of normal. Hard soils hampered digging in some areas. In North Carolina and Virginia, peanut harvest trailed 17 and 22 points behind normal, respectively. Frost damaged some peanuts and slowed harvest in Virginia.

Burley tobacco stripping was 14% finished in Kentucky, nearly doubling the average. Damp weather is needed to bring the hanging crop into case. Stripping was 25% finished, 5 points ahead of normal in Tennessee. Farmers were still harvesting and curing flue-cured tobacco in North Carolina and Virginia.

FRUIT AND NUTS: Florida's citrus trees were excellent following heavy rains in some areas from Hurricane Floyd. Fresh fruit harvest increased as natural colorbreak became more widespread. Juice level lagged behind normal, but many crops passed minimum maturity standards. Texas citrus harvest expanded. Cooler temperatures promoted additional sizing. Arizona's citrus yield prospects were favorable. California grape and valencia orange harvests were virtually complete. Desert grapefruit and fairchild tangerine harvest gained momentum. Almond harvest neared completion while walnut and pistachio harvest continued.

VEGETABLES: Hurricane Floyd caused minimal damage to Florida's vegetable crops. Fall harvest and winter planting continued on schedule. Sweet radishes and squash were the major crops harvested. Vegetable continued in Texas. Lettuce, cauliflower, broccoli, and celery progressed well in western Arizona. Normal cultural practices continued. Lettuce cutting was active in southeastern areas. California vegetable harvest consisted mostly of broccoli, celery, cauliflower, celery, cucumbers, and lettuce.

PASTURES AND LIVESTOCK: Livestock was mostly good. Supplemental feeding increased in some areas. Pastures continued declining as moisture decreased.

Crop Progress

FOR WEEK ENDING OCTOBER 18, 1987

GRAIN SORGHUM % MATURE			
	1987	1986	AVG.
ARK	100	99	NA
ILL	100	100	NA
KANS	90	85	85
LA	100	100	100
MISS	100	100	100
MO	100	98	93
NEBR	100	100	94
OKLA	95	75	90
S DAK	100	92	91
TENN	100	100	97
TEX	90	85	92
11 STATES	94	90	NA
EXCL. STATES WITH NA	93	89	90
THESE 11 STATES PRODUCED OF THE 1986 GRAIN SORGHUM CROP.	96%		
NA - NOT AVAILABLE.			

CORN % HARVESTED			
	1987	1986	AVG.
COLO	27	12	28
GA	96	98	96
ILL	91	53	53
IND	83	44	35
IOWA	80	22	34
KANS	85	65	60
KY	88	74	59
MICH	40	5	15
MINN	77	10	20
MO	89	53	60
NEBR	60	30	32
N C	81	86	86
OHIO	75	29	30
PA	27	24	20
S DAK	68	10	30
TEX	95	92	94
WIS	57	10	13
17 STATES	76	34	38

THESE 17 STATES PRODUCED 94%
OF THE 1986 CORN CROP.

GRAIN SORGHUM % HARVESTED			
	1987	1986	AVG.
ARK	98	98	93
ILL	95	53	50
KANS	70	30	30
LA	100	100	98
MISS	98	100	92
MO	89	50	56
NEBR	75	30	32
OKLA	25	20	30
S DAK	90	28	37
TENN	95	87	70
TEX	68	65	74
11 STATES	74	49	52
THESE 11 STATES PRODUCED OF THE 1986 GRAIN SORGHUM CROP.	96%		

RICE % HARVESTED			
	1987	1986	AVG.
ARK	98	98	98
CALIF	80	75	60
LA	100	100	98
MISS	100	100	92
TEX	100	100	100
5 STATES	96	95	92

THESE 5 STATES PRODUCED 97%
OF THE 1986 RICE CROP.

WINTER WHEAT % PLANTED			
	1987	1986	AVG.
ARK	35	19	21
CALIF	10	10	9
COLO	97	98	97
GA	10	17	13
IDAHO	76	89	88
ILL	87	34	57
IND	80	42	65
KANS	97	80	80
MICH	80	20	70
MO	74	24	40
MONT	98	65	80
NEBR	100	100	99
N MEX	95	94	NA
N C	18	14	19
OHIO	85	31	65
OKLA	90	65	70
OREG	57	78	70
S DAK	100	100	100
TEX	86	72	66
WASH	82	94	91
20 STATES	87	71	NA
EXCL. STATES WITH NA	87	71	74
THESE 20 STATES PRODUCED OF THE 1986 WINTER WHEAT CROP.	91%		
NA - NOT AVAILABLE.			

WINTER WHEAT % EMERGED			
	1987	1986	AVG.
ARK	16	11	NA
CALIF	1	1	1
COLO	82	84	86
GA	5	12	NA
IDAHO	49	56	57
ILL	34	16	31
IND	44	28	43
KANS	75	75	60
MICH	40	10	NA
MO	47	19	22
MONT	87	35	58
NEBR	100	98	92
N MEX	90	89	NA
N C	7	6	NA
OHIO	36	15	38
OKLA	65	45	40
OREG	26	48	38
S DAK	100	97	92
TEX	68	63	42
WASH	62	73	69
20 STATES	66	59	NA
EXCL. STATES WITH NA	69	61	55
THESE 20 STATES PRODUCED OF THE 1986 WINTER WHEAT CROP.	91%		
NA - NOT AVAILABLE.			

SOYBEANS
% DROPPING LEAVES

	1987	1986	AVG.
ALA	81	77	76
ARK	78	61	64
GA	84	87	84
ILL	100	100	100
IND	100	100	100
IOWA	100	100	100
KANS	97	95	90
KY	98	85	83
LA	86	72	77
MICH	100	100	100
MINN	100	100	100
MISS	90	90	92
MO	100	93	91
NEBR	100	100	100
N C	40	44	41
OHIO	100	100	100
S C	43	58	58
S DAK	100	100	100
TENN	94	85	90

19 STATES 94 92 92

THESE 19 STATES PRODUCED 96% OF THE 1986 SOYBEANS CROP.

COTTON
% BOLLS OPENING

	1987	1986	AVG.
ALA	100	98	95
ARIZ	100	99	100
ARK	100	98	98
CALIF	100	100	97
GA	93	89	90
LA	100	100	99
MISS	100	100	100
MO	100	97	100
N MEX	100	100	100
N C	100	100	100
OKLA	65	50	85
S C	100	100	100
TENN	100	100	100
TEX	58	44	66

14 STATES 78 70 82

THESE 14 STATES PRODUCED 100% OF THE 1986 COTTON CROP.

SOYBEANS
% HARVESTED

	1987	1986	AVG.
ALA	33	25	24
ARK	47	23	17
GA	13	10	13
ILL	96	56	71
IND	92	50	64
IOWA	98	40	51
KANS	65	25	35
KY	45	21	18
LA	58	28	32
MICH	50	5	30
MINN	97	48	42
MISS	50	30	24
MO	74	19	31
NEBR	90	45	36
N C	8	7	7
OHIO	88	44	58
S C	3	6	5
S DAK	99	39	53
TENN	35	17	15

19 STATES 77 37 43

THESE 19 STATES PRODUCED 96% OF THE 1986 SOYBEANS CROP.

COTTON
% HARVESTED

	1987	1986	AVG.
ALA	83	60	52
ARIZ	45	30	25
ARK	88	71	56
CALIF	35	12	10
GA	57	29	33
LA	89	84	57
MISS	90	94	58
MO	89	81	65
N MEX	7	10	10
N C	40	33	36
OKLA	5	0	5
S C	72	40	55
TENN	85	75	60
TEX	19	17	21

14 STATES 46 39 32

THESE 14 STATES PRODUCED 100% OF THE 1986 COTTON CROP.

Crop Condition

FOR WEEK ENDING OCTOBER 18, 1987

WINTER WHEAT

STATE	VP	P	F	G	EX
ARK	2	14	41	39	4
CALIF	0	0	0	100	0
COLO	0	6	23	64	7
GA	0	21	50	29	0
IDAHO	0	1	46	52	1
IND	0	7	40	49	4
KANS	0	3	37	34	26
MICH	1	4	20	50	25
MONT	0	2	17	74	7
NEBR	0	3	42	55	0
N MEX	0	0	25	50	25
OHIO	0	5	24	63	8
OKLA	0	0	5	95	0
OREG	0	31	48	21	0
S DAK	2	6	17	62	13
TEX	0	6	32	46	16
WASH	0	5	35	60	0

COTTON

STATE	VP	P	F	G	EX
ALA	0	12	68	20	0
ARIZ	0	0	0	75	25
ARK	0	0	5	57	38
CALIF	0	0	0	35	65
GA	0	23	35	42	0
MISS	0	2	10	73	15
N MEX	0	0	20	80	0
N C	0	3	42	52	3
OKLA	0	0	2	98	0
S C	3	3	94	0	0
TEX	0	1	22	62	15

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: No rainfall. Temperatures averaged 5 to 9° below normal.

Days suitable for fieldwork 6.8. Soil moisture 100% short. Further delays small grain seedings due to dry conditions. Corn 96% harvested, 93% 1986, 93% avg. Sorghum 75% harvested, 80% 1986, 79% avg. Cotton 83% harvested, 60% 1986, 52% avg. Soybeans 96% turning color, 93% 1986, 94% avg.; 81% dropping leaves, 77% 1986, 76% avg.; 62% mature, 55% 1986, 55% avg.; 33% harvested, 25% 1986, 24% avg.; 6% very poor, 22% poor, 67% fair, 4% good. Peanuts 86% dug, 57% 1986, 88% avg.; 78% combined, 35% 1986, 81% avg. Wheat 33% seeded, 30% 1986, 22% avg. Pastures mostly poor; livestock mostly fair. Primary activities: Harvesting row crops, hay, sweetpotatoes, catfish; soil testing; defoliating cotton; routine care of livestock, poultry.

ARIZONA: Skies cloudy northwest 11th, widely scattered light showers. Southerly flow aloft brought dramatic increase in moisture 12th. Thunderstorms increased 13th west. Cold front moved through State 13th. Drier air gradually spread over west; scattered showers continued east. Cool weather dominated 15th through 17th. Minimum readings 50s lower deserts, upper 30s 5,000 ft., upper 20s high country. Temperatures 2° below normal to 5° above. Precipitation mostly between 0.10 to 0.60 in.

Cotton harvest brisk, outstanding yields Maricopa, Mojave Counties. Light showers briefly interrupted harvest west; favorable conditions returned. Cotton ginning active. Stalk shredding, disk plowing continued. Harvested fields prepared for vegetables, small grains. Unexpected rains southeast delayed cotton harvest several days, light hail damage. New, renovated alfalfa fields progressed west, harvest moderate. Producers baling last cutting south central, crop good. Sorghum good, aphid problems continued. Lemon, grapefruit harvest continued west, other citrus fruits developed satisfactorily. Citrus groves good, yield prospects favorable. Lemons packed central areas; grapefruit, navels picked. Lettuce, cauliflower, broccoli, celery progressed west; normal cultural operations continued. Insect populations monitored; controls applied as needed. Planting, preparations for planting continued. Lettuce cutting active southeast. Cabbage, greens, green onions, rapini, broccoli, parsley shipped central valley. Apple harvest continued. Pecans picked. Cantaloup, honeydews shipped central valley; casabas, crenshaw, orange flesh, sharlyns picked. Cantaloup, honeydews harvested west.

ARKANSAS: Continued cold. Temperatures well below normal; extremes 26°, 87°. Conditions extremely dry. Light showers northwest. Rainfall none to 0.95 in.

Days suitable for fieldwork 7.0. Soil moisture 98% short, 2% adequate. Ideal weather for cotton, soybean harvest. Rice, sorghum harvest winding down. Other major farming activities: Some late hay cutting; land preparation, small grain seeding; pasture fertilization; disking rice stubbles, cotton stalks; brush clipping; cattle marketing. Cotton gins still backlogged. Rice harvest almost complete. Frosty nights encouraged rapid soybean maturity, drying. Wheat seeding advanced rapidly. Need moisture for germination, emergence. Sorghum harvest nearly complete. Dry, cold weather reduced pasture growth. Livestock good, supplemental feeding necessary.

CALIFORNIA: Low pressure storm 12th brought scattered thunderstorms; central valley, Sierras. Same time, moisture from Hurricane Ramon brought showers; south coast, southern deserts. Most of week dry, temperatures close normal.

Dry, warm weather. Ground preparation winter grains. Rice, cotton harvests continued. Rice stubble burned. Cotton growers applied defoliant. Harvest field corn, grain sorghum, sugarbeets, dry beans progressed. Alfalfa seed harvested. Alfalfa hay baling, greenchopping continued. Granny smith apple harvest winding down. Date harvest continued. Fall avocado varieties harvest progressed. Grape harvest neared completion. Kiwi harvest gained momentum. Harvesting of persimmons, pomegranates, olives continued. Valencia orange harvest virtually complete. Navel orange harvest started. Desert lemons being packed. Summer grapefruit harvest virtually complete. Desert grapefruit, fairchild tangerine harvests gained momentum. Almond harvest neared completion. Walnut, pistachio harvests continued. Artichokes fairly light, good quality Castroville. Strawberry ground prepared for planting Riverside. Broccoli fairly heavy Salinas, variable quality. Santa Maria fairly light, good quality, mostly to freezing. Harvest started Westside; over peak Modesto-Turlock. Plantings progressed well Eastside. Carrot volume fairly heavy Salinas, good quality. Production Kern-Tulare light due to slow movement in market. Harvest continued Riverside. Cauliflower moderate Salinas, variable quality. Movement moderate Santa Maria, good quality. Harvest half over Modesto-Turlock, plantings Eastside doing well. Celery fairly heavy Salinas-Watsonville; fairly heavy Santa Maria-Oceano; variable, good quality, respectively. Sweet corn harvest active Westside, Riverside. Cucumber harvest started desert good quality; harvest continued central valley. Lettuce light nearly complete Salinas, variable quality. Santa Maria volume moderate, variable weight, quality. Fall harvest gained momentum Huron District, very good quality. Desert mosaic virus caused yellowing problems. Watermelon, cantaloup, honeydew, mixed melon harvests winding down statewide. Few Westside cantaloups. Melon harvest finished Sacramento Valley. Desert harvest continued cantaloups and honeydews, increased problems with white fly virus. Pepper picking fairly heavy Salinas, Santa Maria, good quality. Harvest continued active Delta, central valley, south coast, good quality. Hot-bed preparation started Merced-Atwater. Fall potato harvest full swing very good quality Tulelake-Butte Valley. Sweetpotato harvest very active Clovis, Selma. Processing, fresh market tomato production moved toward completion, good quality Delta, central valley. Moisture stress continued ranges, pastures. Supplemental feeding active. Irrigating permanent pastures. Calving, lambing continued.

COLORADO: Temperatures 7° below to 6° above normal, above average temperatures San Luis Valley. Snow in mountains, precipitation none to 0.98 in. Eastern plains little rain.

Days suitable for fieldwork 5.8. Soil moisture 17% very short, 50% short, 33% adequate. Corn maturity catching up to 1986 and 5 year average. Fall potatoes 98% harvested. Oats, spring wheat 99% harvested. Dry beans 100% cut; 92% threshed. Sorghum 21% harvested. Sugarbeet harvest slowed by

warm temperatures. Livestock good, pastures mostly fair to good.

FLORIDA: Hurricane Floyd threatened State before moving through Keys, 12th; isolated southern areas up to 7.00 in. rain. Generally 3.00 to 5.00 in. south, 2.00 in. central. North continued dry. Latter half of week dry except east coast where amounts 0.10 in. or less. Temperatures averaged 7° below normal north, ranging to about 3° below normal south.

Soil moisture lower half Peninsula adequate to surplus; other areas mostly short. Harvest active cotton, peanuts, hay, soybeans. Dry soils delayed small grain planting. Sugarcane planting continued. Some wind damage to older sugarcane from early week's storm. Northern pastures poor to fair. Central, southern good to excellent except minor flooding extreme south. Cattle, calves good to excellent. Citrus trees excellent following heavy rains some areas from tropical storm. No loss of citrus trees, fruit. Harvest fresh shipments increased rapidly as natural color break became more widespread. Juice levels in fruit continued to lag but many crops passing minimum maturity standards. Rain, wind early week over southern vegetable producing areas. Damage minimal. Winter plantings, fall harvest continued on schedule. Crops harvested include: Sweet corn, cucumbers, eggplant, radishes, squash. Harvest ruskin tomato crop underway.

GEORGIA: Temperatures cool during week, no rain. Average temperatures 6 to 9° below normal. Lows mid 20s mountains to mid 30s central, around 40s southeast. High temperatures 80s north, mid to upper 80s south.

Days suitable for fieldwork 6.5. Soil moisture 75% very short, 24% short, 1% adequate. Cotton picking progressed rapidly due to dry conditions. Sorghum grain 2% poor, 66% fair, 27% good, 5% excellent; 83% harvested, 64% 1986; harvest moved rapidly. Peanuts 2% very poor, 22% poor, 62% fair, 14% good; ideal weather for threshing. Digging hampered some by hard soils. Peanuts 91% dug, 64% 1986, 89% avg.; 81% threshed, 50% 1986, 82% avg. Soybeans 2% very poor, 15% poor, 56% fair, 23% good, 4% excellent. Wheat dry soils slowed planting, soil preparation. Rye 35% planted, 35% 1986, 36% avg. Apples fair to mostly good; harvest active; 91% harvested, 85% 1986, 94% avg. Pecans fair to mostly good; 4% harvested, 4% 1986, 5% avg. Pastures, hay condition down again, now poor to fair. Cattle, hogs fair to mostly good. Main activities: Soybeans shedding leaves due to dry conditions. Grain plantings slowed due to lack of moisture.

HAWAII: Mostly sunny. Light to heavy showers windward, mountain areas. Temperatures near 90° all week. Most crops condition improved. Irrigation heavy. Water restrictions lifted one major vegetable growing region. Temperatures low 70s to low 90s. Rainfall none to 2.60 in.

Days suitable for fieldwork 7.0. Banana production steady. Papaya production heavy. Chinese, head cabbage supplies steady. Watermelon heavy, decline expected.

IDAHO: Temperatures averaged 1 to 6° below normal. Overnight freezing temperatures common. Precipitation limited north, southeast.

Days suitable for fieldwork 7.0. Winter wheat 76% seeded, 89% 1986, 88% avg. Winter wheat 49% emerged, 56% 1986, 57% avg. Winter wheat fair to good. Potatoes 96% harvested, 92% 1986, 80% avg. Sugarbeets 58% harvested, 45% 1986, 35% avg. Onion harvest virtually complete. Apples 93% harvested, 70% avg. Third cutting alfalfa hay virtually complete. Livestock good.

ILLINOIS: Temperatures averaged within 2° of normal. Precipitation little to none; total mostly 1.00 in. south, none to 0.50 in. central.

Days suitable for fieldwork 6.3. Soil moisture 70% short, 30% adequate. Pasture 3% very poor, 19% poor, 40% fair, 34% good, 4% excellent. Finishing harvest of corn, soybeans, sorghum; almost all farmers southern two-thirds of State complete. Good weather, field conditions will mean record finish.

INDIANA: Temperatures averaged 2 to 7° below normal. Average lows mid to upper 30s, average highs low to upper 60s. Very little precipitation, totals less than 0.10 in. statewide.

Days suitable for fieldwork 5.9. Topsoil moisture 42% short, 57% adequate, 1% surplus. Subsoil moisture 56% short, 43% adequate, 1% surplus. Rye 80% seeded, 65% 1986, 73% avg. Winter wheat cropland for 1988 86% plowed, 67% 1986, 79% avg. Pastures 5% very poor, 28% poor, 42% fair, 25% good. Good week for harvesting, seeding, tillage activities.

IOWA: Near seasonal temperatures, precipitation. Temperature extremes 24° Manchester 13th, 79° Sioux City 13th. Precipitation 25% of normal statewide.

Days suitable for fieldwork 5.9. Topsoil moisture 31% short, 69% adequate; subsoil moisture 13% short, 87% adequate. Winter wheat 92% seeded, 61% 1986, 77% avg. Fall tillage 28%, 3% 1986, 9% avg.; fall fertilizer application 20%, 3% 1986, 9% avg. Livestock mostly good to excellent. Hog farrowing good. Cattle movement slow due to harvest activities. Pastures 7% poor, 26% fair, 49% good, 18% excellent.

KANSAS: Temperatures averaged 53° northwest to 59° northeast; 3° below normal southeast, 2° above normal northeast, near normal elsewhere. Precipitation 0.50 to 1.50 in. central, east; less than 0.10 in. northwest, west central.

Days suitable for fieldwork 6.0. Soil moisture 67% short, 29% adequate, 4% surplus. Rain received some locations, moisture still concern most areas. Wheat seeding neared completion. Rain needed most areas to assure emergence. Wheat streak mosaic all but eastern third. Leaf rust present statewide, incidence and severity variable. Row crop harvest well ahead of normal. Corn harvest partially complete southern third, good progress elsewhere. Sorghum harvest farthest along eastern third. Pastures good; declined due to short moisture, cooler weather. Cattle moving off pastures onto corn, sorghum stubble. Some wheat grazing underway.

KENTUCKY: Cool, dry air. No significant rainfall, normal 0.50 to 0.75 in. Temperatures 6 to 8° below normal; frost, freezing temperatures many locations. Mean temperatures lower 50s.

Days suitable for fieldwork 5.9. Very dry conditions continued; soil moisture 84% very short, 16% short. Corn harvest nearly finished west, considerable still in field east. Soybeans hastened to maturity by dry weather. Frost ended growth of some double crop beans. Size of late beans small. Burley 14% stripped, 10% 1986, 8% avg. Need damp weather to bring hanging crop into case. Sorghum 90% harvested. Fall wheat 52% seeded. Pastures dry, short.

LOUISIANA: Temperature 5 to 8° below normal. Temperature extremes 33°; 87°. No rainfall.

Days suitable for fieldwork 6.8. Soil moisture 62% very short, 34% short, 4% adequate. Soybeans 98% turning color, 92% 1986, 93% avg. Hay final cutting 98%, 96% 1986, 95% avg. Winter wheat 12% planted, 11% 1986, 13% avg.; 3% emerged, 5% 1986, 7% avg. Sugarcane good; 99% planted, 98% 1986, 94% avg.; 12% harvested, 7% 1986, 6% avg.

Sweetpotatoes 89% harvested, 88% 1986, 82% avg. Pecans fair; 2% harvested, 5% 1986, 5% avg. Livestock fair to good; pastures fair; vegetables fair. Main activities: Harvesting cotton, sugarcane, sweetpotatoes, soybeans; baling hay; planting fall vegetables, winter pastures, winter wheat.

MARYLAND & DELAWARE: Maryland: Average temperature 51°, normal 56°. Precipitation averaged 0.04 in.

Days suitable for fieldwork 6.6. Topsoil, subsoil moisture short to adequate. Corn fair. Corn 98% mature, 98% avg. Corn for grain 80% harvested, 70% avg. Corn silage 98% cut, 98% avg. Soybeans poor to fair. Soybeans 90% turning, 95% avg. Soybeans 75% shed leaves, 75% avg. Soybeans 30% harvested, 20% avg. Winter wheat 50% planted, 45% avg. Barley 75% planted, 75% avg. Small grains good. Hay supply adequate. Apples 95% harvested, 86% avg.

Delaware: Average temperature 53°, normal 58°. Precipitation averaged 0.02 in.

Days suitable for fieldwork 6.7. Topsoil moisture short to adequate. Subsoil moisture very short to short. Corn, soybeans poor to fair, mostly poor. Corn 85% harvested, 80% avg. Soybeans 95% turn color, 95% avg. Soybeans 80% shed leaves, 85% avg. Soybeans 25% harvested, 20% avg. Winter wheat 25% planted, 15% avg. Barley 60% planted, 60% avg.

MICHIGAN: Temperatures 3° below to 4° above normal. Temperature extremes 22°; 72°. Precipitation none to 1.28 in. across State.

Days suitable for fieldwork 6.0. Soil moisture 90% adequate, 10% surplus. Corn 100% mature, 90% 1986, 97% avg.; 40% harvested, 5% 1986, 15% avg. Soybeans 100% shedding, 100% 1986, 100% avg.; 50% harvested, 55% 1986, 80% avg. Winter wheat 80% planted, 20% 1986, 70% avg.; 40% emerged, 10% 1986, NA avg.; 1% very poor, 4% poor, 20% fair, 50% good, 25% excellent. Dry beans 70% harvested, 20% 1986, 80% avg. Major activities: Fruit, vegetable harvesting, haying, corn for grain, soybean, sugarbeet, dry bean harvesting, wheat planting.

MINNESOTA: Temperatures averaged near normal to 3° below normal for State. Temperature extremes 17°; 77°. Precipitation averaged 0.39 to 0.69 in. above normal southeast, south central; near normal to 0.36 in. below normal elsewhere. Greatest weekly total 1.69 in.

Midweek showers slowed harvest southern third. Earliest soybean, corn harvest since 1976. Fall farm activities underway. Need more rain central to soften for plowing. Field corn 77% picked, 10% 1986, 20% avg. Soybeans 97% combined, 48% 1986, 42% avg. Sunflowers 64% harvested, 22% 1986, 24% avg. Sugarbeets 95% harvested, 92% 1986, 61% avg.

MISSISSIPPI: Temperatures 3 to 11° below normal; extremes 27°; 87°. High pressure brought clear skies, cool temperatures, no rain during week.

Days suitable for fieldwork 6.8, 3.7 1986, 3.8 avg. Soil moisture 80% very short, 15% short, 5% adequate. Corn 96% harvested, 100% 1986, 89% avg.; 5% very poor, 5% poor, 10% fair, 70% good, 10% excellent. Hay 96% harvested, 96% 1986, 96% avg. Sorghum silage 100% harvested, 100% 1986. Peanuts 88% harvested, 96% 1986, 85% avg. Sweetpotatoes 79% harvested, 91% 1986, 72% avg. Wheat 15% planted, 22% 1986, 21% avg.; 15% very poor, 55% poor, 15% fair, 15% good. Pecans 10% harvested, 13% 1986; 10% very poor, 20% poor, 15% fair, 52% good, 2% excellent. Soybeans 90% shedding, 90% 1986, 92% avg.; 70% mature, 68% 1986; 50% harvested, 30% 1986, 24% avg.; 5% very poor, 35% poor, 40% fair, 15% good, 5% excellent. Sorghum 98% harvested, 100% 1986, 92% avg.; 5% very poor,

10% poor, 40% fair, 45% good. Rice 100% harvested, 100% 1986, 92% avg. Cotton 90% harvested, 94% 1986, 58% avg.; 2% poor, 10% fair, 73% good, 15% excellent.

MISSOURI: Cool temperatures continued, averaging 4° below normal north, 7 to 10° below normal south. Precipitation averaged 0.50 in. except northwest near 1.00 in.

Days suitable for fieldwork 5.8. Topsoil moisture 63% short, 37% adequate. Rain needed for winter wheat, pastures. Corn, soybeans, grain sorghum, cotton harvest percent high for date. Fall tillage for spring crops 33%, 10% 1986, 22% avg. Pasture 5% very poor, 23% poor, 47% fair, 25% good.

MONTANA: Temperatures normal north, 1 to 4° below normal south. Southwest 6° below normal in spots. South central 0.10 in. precipitation, less elsewhere.

Days suitable for fieldwork 6.7. Topsoil moisture 54% short, 46% adequate. Subsoil moisture 18% short, 82% adequate. Sugarbeets 69% harvested, 51% 1986, 54% avg. Dry beans 99% harvested, 91% 1986, 91% avg. Potatoes 93% harvested, 80% 1986, 77% avg. Corn silage 97% harvested, 92% 1986, 95% avg. Cattle, calves moved from summer ranges 72%, 67% 1986, 73% avg. Sheep, lambs moved from summer ranges 74%, 78% 1986, 78% avg. Stockwater supply 4% short, 96% adequate.

NEBRASKA: Temperatures averaged 1 to 4° below normal. Extremes 21°; 79°. Precipitation midweek, generally less than 0.50 in.

Days suitable for fieldwork 5.5. Topsoil moisture 49% short, 48% adequate, 3% surplus. Subsoil moisture 21% short, 77% adequate, 2% surplus. Fall crop harvest doubled 1986. Corn ear drop north central, northeast, south central due to wind, corn borer, damage. Some soybean pod splitting, due to dry weather. Dry bean, sugarbeets, sunflowers, millet being harvested. Rain, snow helped winter wheat but stress still evident from lack of moisture. Cattle moved on stalks. Pasture grasses seasonably short to adequate. Weaning calves, moving hay, fencing stubble active.

NEVADA: Weak high pressure early in week. Upper level low pressure system began to move eastward 12th. Generated showers as it moved slowly across State. High pressure rebuilt 14th, sunny mild days, cool nights rest of week. Temperatures averaged few degrees above normal. Rainfall varied widely. Northwest, south central, extreme south amounts 0.25 in. or less. Northeast amounts from few hundredths to more than 1.00 in.

Potato harvest essentially complete. Hay harvest windup stage. Livestock good, most on low elevation ranges.

NEW ENGLAND: Temperatures averaged near normal ranged from low 40s near Canadian border to around 50° along south coast. Average precipitation 0.25 to 0.50 in. across southern State to less than 0.25 in. across northern State.

Potato harvest winding down. Apple harvest winding down. Cranberries 75% harvested. Major farm activities: Chopping corn, haying, harvesting cranberries, other fruits.

NEW JERSEY: Temperatures averaged much below normal. Extremes 22°; 74°. Rainfall averaged 0.01 in. north, none central, south. Heaviest 24-hour total 0.05 in. on 17th, 18th. Estimated soil moisture percent field capacity averaged 98% north, 87% central, 83% south. Four inch soil temperatures averaged 50° north, 51° central, 54° south.

Fieldwork very active. Topsoil moisture generally adequate. Fall vegetable harvest active.

Irish potato harvest in clean-up stage. Sweetpotato harvest well advanced. Apple, cranberry harvest good progress. Combining of soybeans, corn for grain advanced. Warmer daytime temperatures improved growing conditions for fall sown grains, cover crops, pastures.

NEW MEXICO: Temperatures over State ranged 22° Quemado to 90° Carlsbad; light precipitation statewide, slowed harvest activity.

Days suitable for fieldwork 6.1 Soil moisture 33% short, 67% adequate. Hail damage Mesilla Valley. Cotton 20% fair, 80% good; harvest activity continued southern valleys, began other areas. Barley 17% fair, 66% good, 17% excellent. Irrigated, dryland wheat fair to excellent; planting virtually complete; good stands. Irrigated grain sorghum 25% fair, 50% good, 25% excellent; harvest activity continued. Dryland sorghum 25% fair, 25% good, 50% excellent; good yields continued. Corn 22% fair, 56% good, 22% excellent; harvest activity continued. Pecans 20% fair, 80% good; preparation for harvest continued. Lettuce 100% good; harvest activity slowed. Red chili harvest continued, crop fair to good. Cattle 17% fair, 83% good. Movement of cattle continued. Sheep 20% fair, 80% good. Range very poor to good, additional rains needed, particularly Santa Fe County.

NEW YORK: Precipitation well below normal statewide averaged less than 0.75 in. Temperatures below normal. Daytime highs in 40s and 50s early in week, 60s later. Freezing temperatures at night most localities.

Days suitable for fieldwork 6.0. Soil moisture adequate to surplus. Sunny weather dried fields enough to allow harvest equipment in. Third cutting alfalfa 77%, 78% 1986, 72% avg. Corn silage 73%, 53% 1986, 58% avg. Grain corn 16%, 9% 1986, 17% avg. Potato digging near completion. Dry bean harvest advanced. Vegetable harvest virtually complete. Apple harvest full swing, progressed more rapidly than normal.

NORTH CAROLINA: Temperatures averaged 7° below normal mountain region; 6 to 7° below normal Piedmont Region; 2 to 4° below normal coastal Plain Region. Temperature extremes 25°; 83°. Precipitation none to 0.28 in. across State.

Days suitable for fieldwork 6.4. Soil moisture 7% very short, 55% short, 38% adequate. Peanuts fair to good; dug 54%, 85% 1986, 71% avg.; threshed 42%, 67% 1986, 56% avg. Sorghum 62% harvested, 49% 1986, 61% avg. Sweetpotatoes fair to mostly good; 68% harvested, 61% 1986, 63% avg. Apples mostly good; 82% harvested, 83% 1986, 83% avg. Oats 35% planted, 18% 1986, 33% avg. Barley 37% planted, 23% 1986, 30% avg. Rye 32% planted, 26% 1986, 35% avg. Pasture 12% poor, 46% fair, 42% good. Major farm activities: Harvesting tobacco, corn for grain and silage, cotton, sweetpotatoes, hay, peanuts, soybeans, apples, sorghum, vegetables; defoliating cotton; seeding small grains; curing, marketing tobacco; shearing Christmas trees; conservation work; tending livestock; disking stalks; general farm maintenance.

NORTH DAKOTA: Temperatures averaged 1° below normal northwest to 4° below normal north, east. Extremes 10° north central, 78° west central, central, south central. Precipitation light across State, heaviest 0.24 in. southwest.

Days suitable for fieldwork 6.6. Topsoil moisture well below normal; 16% very short, 57% short, 27% adequate. Subsoil moisture near normal; 7% very short, 43% short, 50% adequate. Harvest of late season crops well ahead of normal pace. Sunflower 64% combined, 19% 1986, 25% avg.; corn grain 59% harvested, 19% 1986, 36% avg. Corn silage, dry bean harvest essentially completed. Soybeans,

sugarbeets, flax harvest near completion. Pastures mostly poor.

OHIO: Temperatures averaged normal to 10° below normal, lows low 30s, highs mid 70s. Precipitation less than 0.25 in.

Days suitable for fieldwork 5.9. Soil moisture 39% short, 57% adequate, 4% surplus. Potatoes 85% dug. Apples 76% harvested. Grapes 80% harvested.

OKLAHOMA: Temperatures averaged 3° below normal Panhandle to 6° below normal south central. Precipitation averaged none west central to 0.70 in. south central.

Days suitable for fieldwork 6.6. Topsoil moisture 45% short, 53% adequate, 2% surplus. Subsoil moisture 10% short, 90% adequate. Wheat 5% fair, 95% good; 90% planted, 65% 1986, 70% avg.; 65% emerged, 45% 1986, 40% avg. Dry weather progressed seeding 2 weeks ahead of schedule. Sorghum 2% fair, 97% good, 1% excellent; 95% mature, 75% 1986, 90% avg.; 25% harvested, 20% 1986, 30% avg. Late maturing Panhandle dryland sorghum production may be limited by hard freeze. Cotton 2% fair, 98% good; 65% open bolls, 50% 1986, 85% avg.; 5% harvested, none 1986, 5% avg. Bottomland late planted cotton received some freeze damage. Pastures, livestock good. Cattle marketings stable, prices up from preceding week.

OREGON: High pressure dominated Pacific northwest. Daytime maximum temperatures above normal; lower than average minimum temperatures. Trace amounts of precipitation.

Soil moisture 100% short. Much fall grain seeding in dusty soil. Barley 42% seeded. Emerged fall grain stands spotty Columbia Basin. Third hay cutting north central. Corn silage harvest continued Washington County. Sugarbeets 15 to 20% harvested Malheur County. Still some apple harvest Jackson County. Some red delicious apples unharvested due to poor market Hood River Valley. Apple harvest complete by end of week Gilliam County. Filbert harvest continued late stages Washington, Clackamas Counties. Walnut growers need rain to drop nuts for harvest Jackson County. Potato harvest done Malheur County. Potatoes 85% harvested Klamath County, well underway Hermiston-Boardman area. Sweet corn harvest completed Jackson County. Onion harvest completed Jackson County. Harvesting onions Malheur County; excellent yields. Good vegetable harvest conditions Willamette Valley. Livestock good to excellent east; fair to good west. Ranges, pastures mainly poor to fair; very dry. Pneumonia in cattle Hermiston area; turning cattle on turnip fields, grain stubble. Large feeder sale 23rd, The Dalles. Calves moving Wheeler County. Previously contracted weaners, yearlings being shipped Harney County.

PENNSYLVANIA: Cool, dry week. November-like weather at beginning, Indian summer at end. Average temperature extremes 47°, 5° below normal. Temperature extremes 22°; 79°. Average precipitation 0.09 in., 0.57 in. below normal.

Days suitable for fieldwork 5.0. Soil moisture 79% adequate, 21% surplus. Corn 93% mature, 92% 1986, 85% avg.; 27% harvested, 24% 1986, 20% avg. Corn 4% very poor, 9% poor, 29% fair, 37% good, 21% excellent. Ensilage corn 86% harvested, 88% 1986, 87% avg. Soybeans 27% harvested, 22% 1986, 23% avg. Soybeans 3% very poor, 7% poor, 27% fair, 45% good, 18% excellent. Potatoes 80% harvested, 90% 1986. Third cutting alfalfa 89%, 100% 1986. Fourth cutting alfalfa 62%, 80% 1986. Quality of hay fair to good. Amount of feed being obtained from pastures average to above average. Apples 74% harvested, 82% 1986. Grapes 82% harvested, 90% 1986. Fall plowing 88%, 90% 1986. Winter wheat 67% planted, 80% 1986. Barley 90% planted, 94%

1986. Activities: Harvesting hay, haylage, corn for grain, silage, soybeans, fruit, potatoes, other vegetables; seeding wheat, barley; hauling manure; spreading lime, fertilizer; installing conservation practices; machinery maintenance; caring for livestock.

PUERTO RICO: Island average rainfall 1.36 in., 0.43 in. below normal. Highest weekly total rainfall 4.80 in. Hacienda Constanza, 3.73 in. Pico Del Este-Luquillo, 3.46 in. Corral Viejo. Highest 24-hour total 2.08 in. Yauco. San Juan mean temperature 84°, 4° above normal. Total rainfall 0.59 in., 0.74 in. below normal. Divisional temperature averaged 81 to 84° on coasts, 74 to 79° interior, mean station temperature 66° Pico Del Este-Luquillo to 85° San Juan. Lowest minimum temperature 52° Pico Del Este-Luquillo. Highest maximum temperature 97° several places.

SOUTH CAROLINA: Temperatures averaged 4 to 8° below normal. No rainfall. Frost many upstate locations.

Days suitable for fieldwork 6.2. Soil moisture 37% very short, 53% short, 10% adequate. Cotton 100% open bolls, 100% 1986, 100% avg.; 72% harvested, 40% 1986, 55% avg.; 3% very poor, 3% poor, 94% fair. Soybeans 82% leaves turning, 84% 1986, 86% avg.; 43% leaves shedding, 58% 1986, 58% avg.; 30% mature, 43% 1986, 27% avg.; 3% harvested, 6% 1986, 5% avg.; 2% very poor, 2% poor, 68% fair, 28% good. Corn harvest virtually complete. Peanuts fair to good; 62% harvested, 39% 1986, 68% avg. Pasture condition dropped to fair. Small grain seeding delayed due to dry soils. Livestock fair to good.

SOUTH DAKOTA: Average temperatures 8° below normal to 2° above. Extremes 14°; 79°. Black Hills low 10° Cottonwood.

Days suitable for fieldwork 5.3. Topsoil moisture slightly improved some areas due to scattered rainfall; 16% critically short, 64% short, 20% adequate. Row crop harvest continued ahead of normal.

TENNESSEE: Below normal temperatures. Extremes 28°; 79°, virtually no rain.

Days suitable for fieldwork 6.1. Soil moisture 56% very short, 40% short, 4% adequate. Corn grain 90% harvested, 75% 1986, 60% avg. Burley 25% stripped, 20% 1986, 20% avg. Winter wheat 35% seeded, 30% 1986, 30% avg. Cattle, pastures mostly fair. Dry weather hampered fall seedings, pasture renovation.

TEXAS: Series of cool fronts moved across State bringing rain some areas. High pressure areas behind each front, created below normal temperatures most areas. Temperatures few degrees below normal most State. Most areas, except High Plains, dry.

Crops: Corn harvest continued Plains. Midweek rains slowed progress. Producers good yields. Cooler weather slowed grain sorghum maturing Plains, harvesting limited. Moisture levels remained high many fields. Producers with high moisture grain wait for freeze to further dry down grain. Yields remained excellent. Warm daytime temperatures allowed cotton maturity to progress; cooler night conditions slowed progress. Many bolls opening Plains. Some harvest-aid chemicals applied Low Plains, Cross-Timbers. Some light harvest occurred these areas. Harvest nearly complete central, east. Blackland producers good harvest progress, good yields. Harvest advanced slightly Trans-Pecos. Small grain seeding increased, many areas dry. Rain on Plains benefit planted fields. Some early fields provided grazing for stockers. Germination slow many areas because lack of moisture, stands varied. Some greenbug

problems Blacklands. Soybean harvest continued High Plains, Upper Coast. Yields Upper Coast fair. High Plains fields good yields. Peanut harvest increased Cross-Timbers, Low Plains, yields good. Harvesting also continued central, south. Grades average, yields fair to good. Weather conditions good for harvesting. Other field crops: Peanuts 26% harvested, 36% 1986, 35% avg. Pecans 8% harvested, 21% 1986, 7% avg. Soybeans 35% harvested, 43% 1986, 29% avg. Sugarbeets 21% harvested, 13% 1986, 23% avg. Sunflowers 42% harvested, 34% 1986, 50% avg. Oats 68% planted, 65% 1986, 57% avg.

Commercial Vegetables: Rio Grande Valley cucumbers good supply. Peppers, cabbage remained good. Onion planting increased with open weather. Citrus harvest expanded. Cooler weather promoted additional sizing. San Antonio-Winter Garden fall planted vegetables good. Carrot harvest continued. Cucumbers stressed for moisture. High Plains harvest carrots, bell peppers, pumpkins continued. Trans-Pecos pepper harvest continued, good yields. Onion planting progressed Presidio area. Pecan harvest expanded many areas. Fair crop, producing good quality nuts. Many nuts shuck split stage.

Range and Pasture: Ranges, pastures suffered another dry week many areas. Rainfall Plains will improve grazing small grains; other areas short on forage. Producers increased supplemental feeding these areas. Rain would improve conditions greatly. Livestock good. Stockers started moving onto early small grain fields Plains. Markets steady.

UTAH: Precipitation heavy all divisions. Temperatures 2 to 3° above normal.

Days suitable for fieldwork 4.9. Soil moisture 43% short, 57% adequate. Winter wheat 96% seeded, 94% 1986, 85% avg. Corn 89% mature, 88% 1986, 88% avg.; corn silage 87% harvested, 91% 1986, 87% avg. Alfalfa 4th cutting continued. Apples 81% harvested, 96% 1986, 68% avg. Onion, potato harvest neared completion. Winter ranges dry, need rain. Cattle moved from summer range 73%, 70% 1986, 64% avg. Sheep 75% moved, 80% 1986, 71% avg. Livestock good to excellent. Major farm activities: Harvesting grain corn, onions, potatoes, apples; hauling hay, moving livestock.

VIRGINIA: Very cool, somewhat dry. Temperatures 4 to 11° below normal, widespread frost; range 23 to 80°. Rainfall 0.35 in. west, dry east.

Days suitable for fieldwork 5.8. Topsoil moisture 32% short, 68% adequate. Grain corn 78% harvested, 65% 1986, 67% avg. Silage 96% harvested, 93% 1986, 97% avg. Soybeans 9% harvested, 10% 1986, 10% avg. Peanuts fair, harvest slowed by frost, some peanuts hurt by frost. Peanuts 65% dug, 95% 1986, 87% avg. Peanuts 45% combined, 82% 1986, 76% avg. Marketed flue-cured tobacco, stripped, graded burley tobacco. Some fall hay harvest. Reseeded pasture, hay land. Apples 78% harvested, 83% 1986, 80% avg. Wheat 24% seeded, 20% 1986, 29% avg. Barley 65% seeded, 54% 1986, 66% avg. Oats 67% seeded, 63% 1986, 74% avg.

WASHINGTON: Warm, dry weather continued. Light rains west of Cascades midweek, seasonal precipitation remained well below normal. Killing frosts touched many areas as beautiful fall weather continued.

Soil moisture 80% short, 20% adequate. Dry conditions continued. Palouse, Blue Mountain hill country especially dry, winter grains reflecting moisture stress. Winter wheat planting continued behind normal; 82% seeded, 94% 1986, 91% avg. Winter wheat 62% emerged, 73% 1986, 69% avg. Potato harvest winding down; Columbia Basin 87% harvested. Crop conditions good. Warm, dry weather allowed 5th cutting alfalfa hay Grant

(Continued to back cover)

STORM BRINGS WIDESPREAD DAMAGE TO WESTERN EUROPE

An intense storm moved through western Europe October 15-17, the strongest in over a century. Hurricane force winds in excess of 40 meters per second were common across southern England and disrupted electrical power, communications, and transportation. As the storm passed through southern England on Friday the 16th, sea level pressure at London dropped to 960 millibars, an all-time record. High winds and heavy

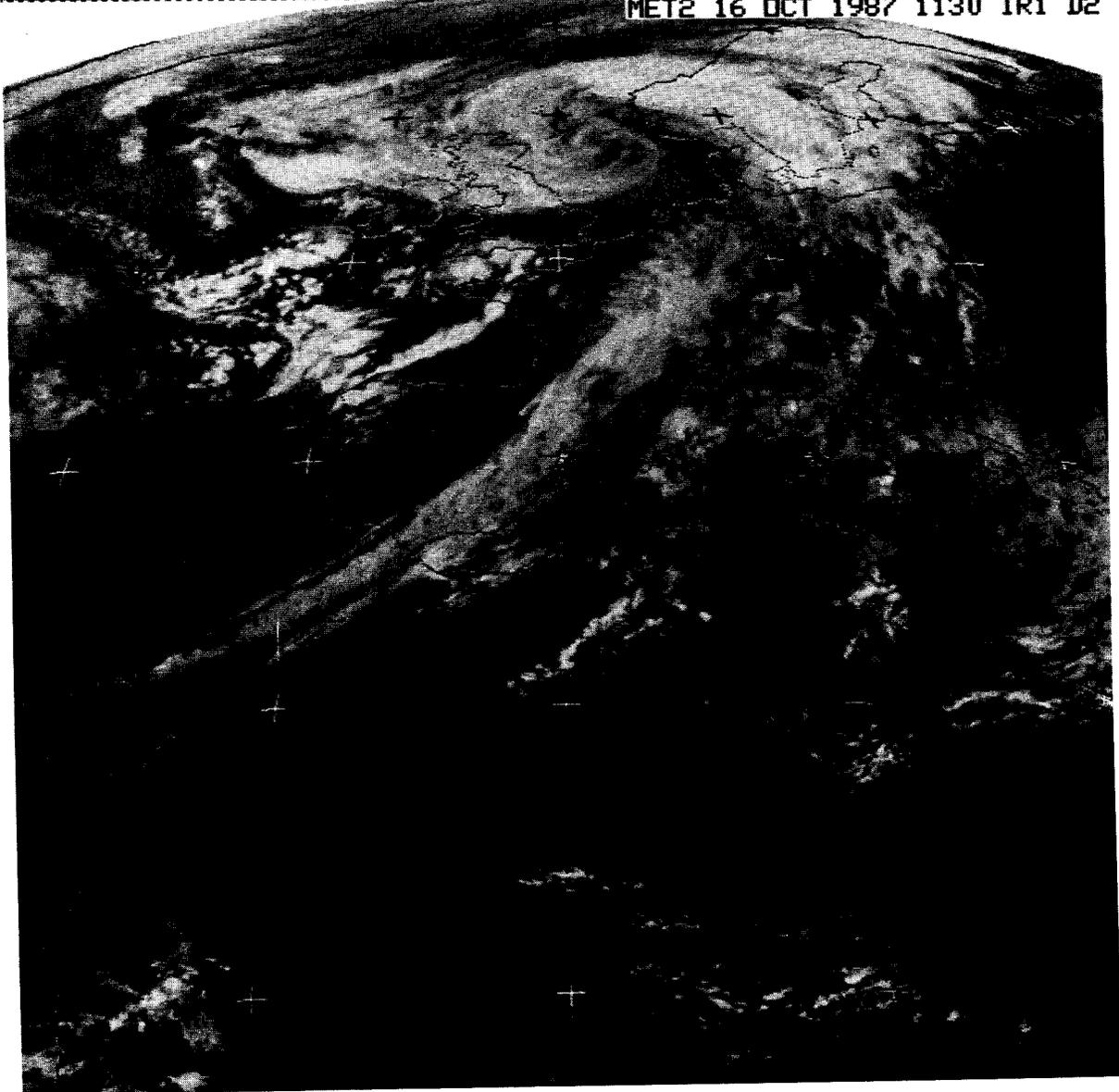
rainfall in excess of 50mm were common from Spain to Scandinavia. The frontal system associated with the storm produced over 300mm of rain in northwestern Spain causing widespread flooding. While delays in potato and sugar beet harvesting and winter grain planting are likely, crop damages due to the storm are not expected to be significant.

Jeff Andresen

OCTOBER 16, 1987

11:30 GMT

MET2 16 OCT 1987 1130 IRI D2



International Weather and Crop Summary

October 11 - 17, 1987

HIGHLIGHTS:

UNITED STATES...Corn and soybean harvests soar toward completion in most areas of the Nation. Inadequate moisture continues hampering winter wheat seeding, germination, and growth in the central Great Plains, Corn Belt, Delta, Southeast, and Pacific Northwest.

WESTERN U.S.S.R....Mostly dry, mild weather favors summer crop harvesting.

EUROPE...A large ocean storm brings high winds and heavy rains to much of the west. Scattered showers benefit soil moisture levels for winter grains in the east and south.

SOUTH ASIA...Showers benefit some southern crop areas. Much needed dry weather covers Bangladesh and the eastern states.

NORTHWESTERN AFRICA...Showers increase pre-planting soil moisture levels in the north, while other production areas remain dry.

SOUTH AFRICA...Heavy showers return to the eastern half of the major corn region, delaying planting activities.

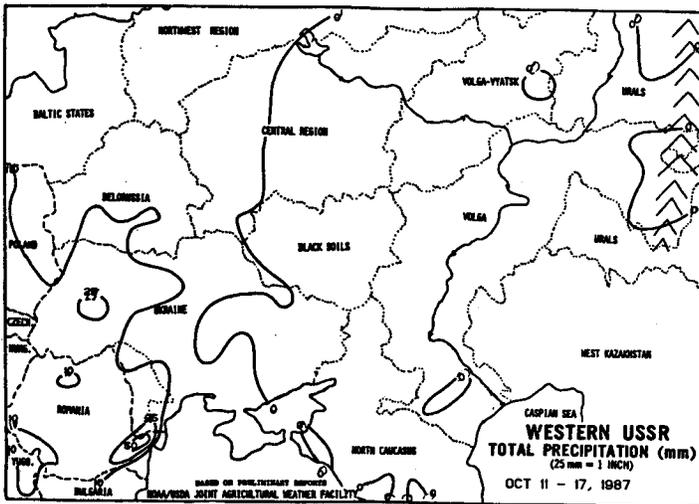
SOUTHEAST ASIA...Drier weather covers Thailand's major rice areas. Locally heavy showers continue in the Philippines.

EASTERN ASIA...Widespread, substantial rain falls over southern China, the Yangtze Valley, and the North China Plain, delaying harvesting but favoring winter wheat establishment.

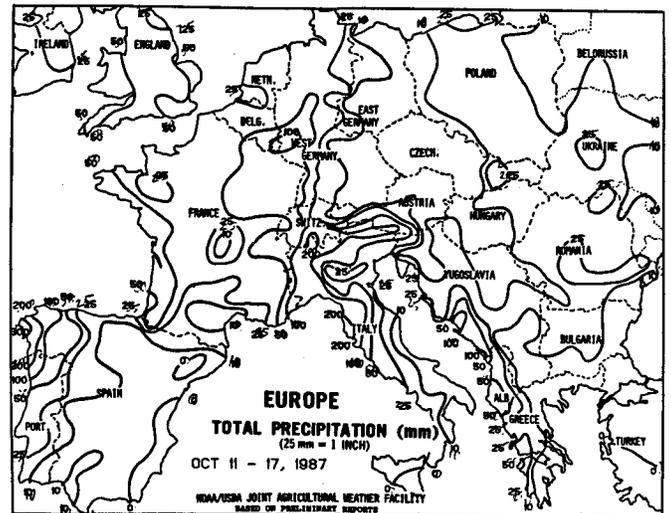
SOUTH AMERICA...Showers benefit crop planting in Argentina, but moisture reserves are limited. Heavy rain returns to southern Brazil.

AUSTRALIA...Substantial rains benefit mostly heading wheat in nearly all production areas.

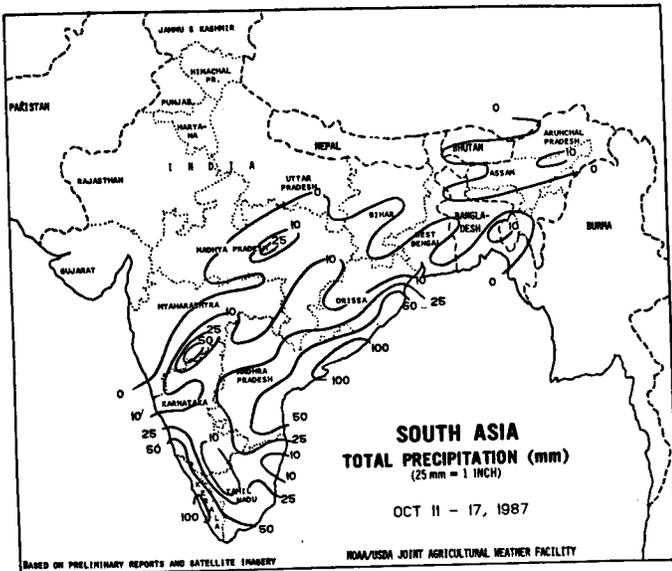
MEXICO...Mostly dry weather favors fieldwork.



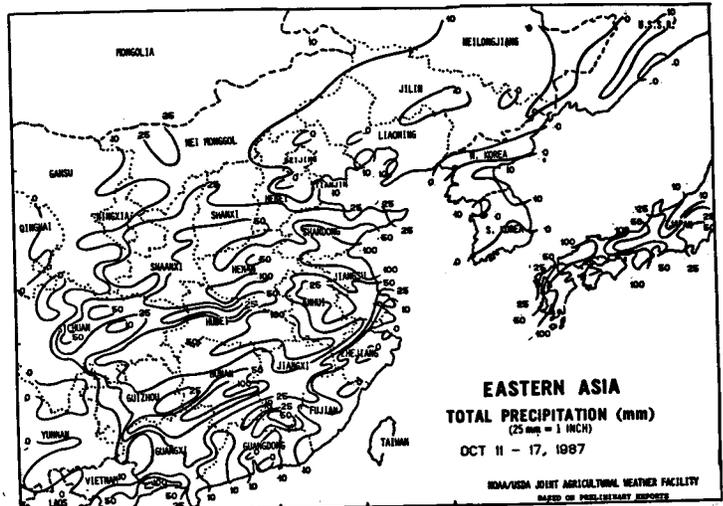
Western U.S.S.R....A quasi-stationary high-pressure system north of the Caspian Sea kept most of the area dry. The weather pattern was quite similar to the previous week. Corn, sugar beet, and sunflower harvests progressed the most in the east. The only significant precipitation fell in the western Ukraine where 10-27mm of rain helped winter grain establishment. Light rain (1-9mm) covered the Baltics, Belorussia, western portions of the Central Region, and the central Ukraine, providing some benefit to emerging winter wheat and briefly slowing the summer crop harvest. Dry weather covered the remainder of the region, favoring crop harvesting. Weekly temperatures generally averaged 8-12 degrees C across the south and west, and 5-8 degrees C in the northeast. Temperatures averaged 1-2 degrees C above normal, favoring wheat emergence. Moisture is limited for grain establishment in the southern Ukraine.



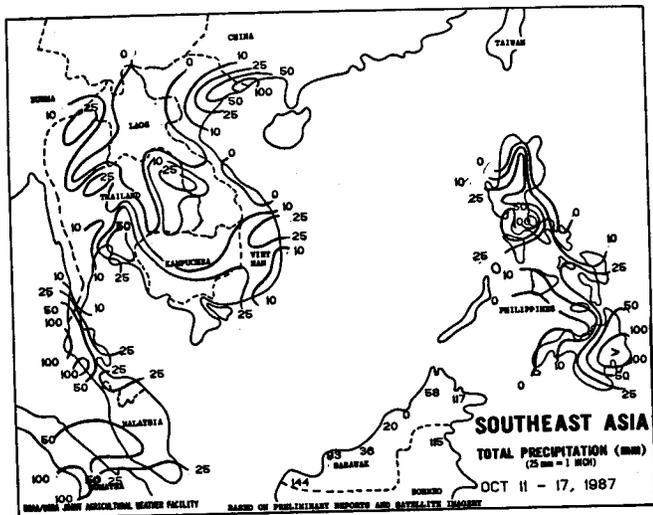
EUROPE...An intense ocean storm brought high winds and heavy rains (greater than 50mm) to many areas of western Europe from Spain northward to Scandinavia, delaying potato and sugar beet harvesting as well as planting of winter grains. Rainfall over 100mm in northwestern Spain and northeastern France likely caused flooding of fields. Elsewhere, scattered showers (mostly less than 25mm) covered much of central and eastern Europe, temporarily delaying fall fieldwork but increasing pre-emergence soil moisture reserves. Scattered heavy rain (greater than 50mm) fell over western Italy and the western Balkans, improving moisture levels for winter grains. Areas of eastern Spain and the southern Balkans remained dry, however, and more rainfall is needed for normal crop emergence and establishment.



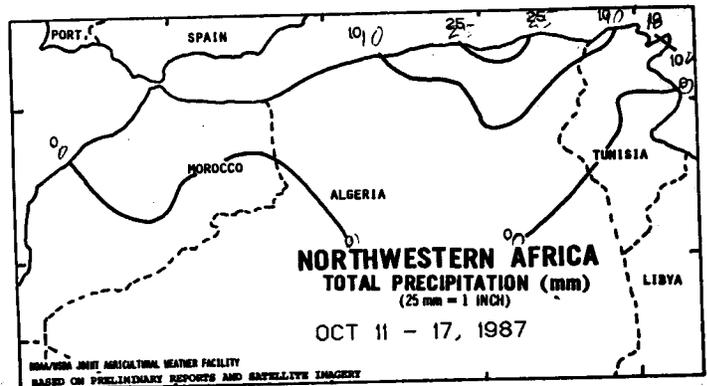
SOUTH ASIA... Moderate to heavy showers (25-100mm or more) continued in southern India from southern Andhra Pradesh to eastern Orissa and along India's southern tip, benefiting flowering cotton and filling groundnuts. Except for local areas, rainfall elsewhere in the south averaged 3-25mm as the monsoon continued its southerly withdrawal. Dry weather reached from Pakistan and northwestern India to Bangladesh and India's eastern states, bringing relief to recently flooded areas.



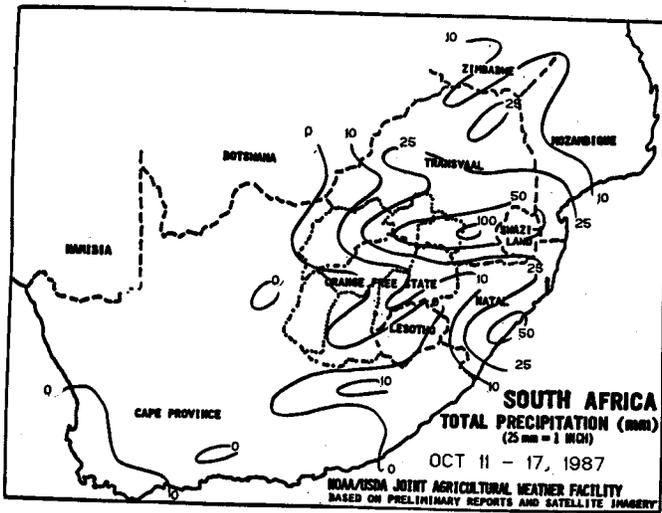
EASTERN ASIA... Widespread, substantial rain fell over southern China, the Yangtze Valley, and the North China Plain. Much-above-average weekly rainfall covered nearly all crop areas, except Guangdong, Fujian, and Zhejiang along the southeast coast, and from eastern Hebei through southern portions of Liaoning and Jilin to eastern Heilongjiang in the northeast. Light rain also fell on the Korean peninsula. While the wetness delayed summer crop harvesting, it greatly benefited topsoils in the North China Plain for winter wheat establishment and maintained adequate moisture for rice growth in the south. The drier weather in the Manchurian Valley improved field conditions for crop harvesting. Cooler, drier weather covered the entire region late in the week. Locally heavy, inundating rain fell in southern Japan as Typhoon Kelly approached.



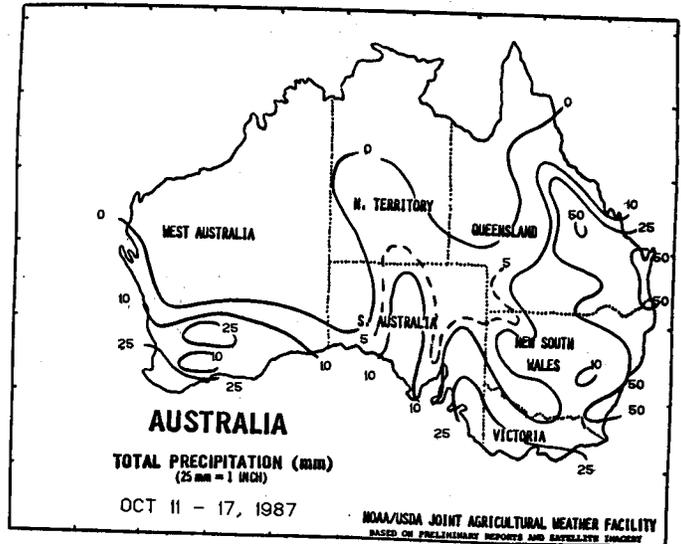
SOUTHEAST ASIA... Light to moderate rain (less than 25mm) covered most Thai rice areas. Moisture continued adequate for heading rice, but more rain will be needed in upcoming weeks as the crop enters the filling stage of development. Locally heavy rain (50-179mm) just east of Bangkok may have caused some damage. Mostly dry weather covered Laos, parts of northern Vietnam, and northern Kampuchea as variable showers (10-90mm) continued along some coastal areas. Moderate to heavy tropical showers fell over Malaysia and western Indonesia, with some rain continuing in western Java. In the Philippines, dry weather favored corn harvesting in northern Luzon, but variable showers fell elsewhere, with heavy rain (50-130mm) persisting over eastern Mindanao.



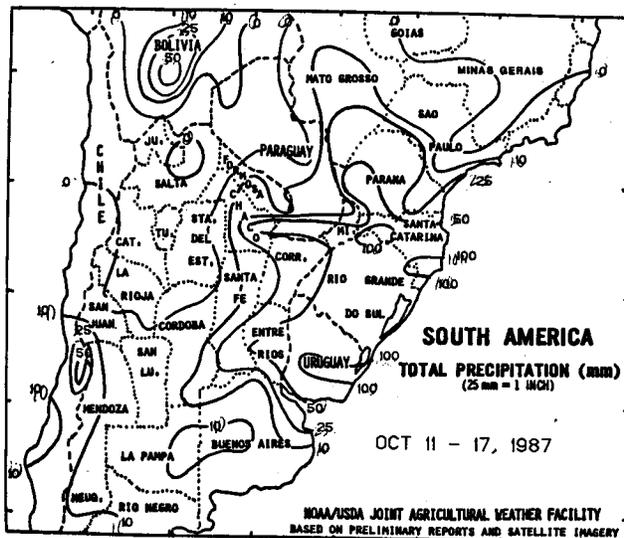
NORTHWESTERN AFRICA... Light to moderate showers (10-39mm) fell in northern sections of Algeria and Tunisia, benefiting pre-planting soil moisture levels. Dry weather covered most other production areas. Winter grain planting normally follows the onset of the rainy season, which began in northern crop areas earlier this month.



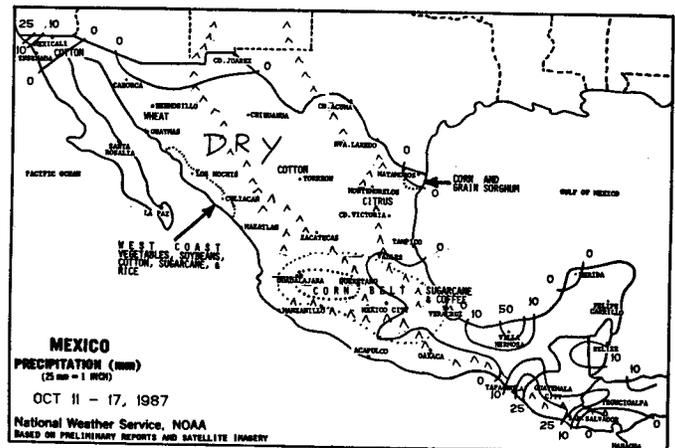
SOUTH AFRICA...Moderate to heavy showers (25-96mm) returned to major corn producing regions of southern Transvaal, northeastern Orange Free State, and eastern Natal, reflecting this season's wet weather pattern. Moisture is adequate to abundant for pre-planting activities, but many areas continue too wet for fieldwork. Planting normally takes place from October through December.



AUSTRALIA...Moderate to heavy rain (20-47mm) brought relief to heading wheat and barley in production areas of Queensland and northeastern New South Wales. The rain ended several weeks of persistent dryness. Significant rainfall (10-45mm) also fell over portions of previously dry southern Western Australia, although area coverage was scattered. Elsewhere, light to moderate showers (less than 20mm) benefited mostly heading wheat in southern New South Wales, Victoria, and South Australia. Wheat is normally in the grain filling stage across Australia, with some of the crop beginning to turn in northern production areas of Queensland and northern New South Wales.



SOUTH AMERICA...In Argentina, some beneficial rain (10-50mm) fell over southern Santa Fe, extreme northern Buenos Aires, and the northeastern provinces including the easternmost portion of Chaco's cotton area. Periodic showers during the past few weeks over Argentina's primary summer crop areas have eased the topsoil moisture shortage in many areas. Corn, sorghum, sunflower, and cotton plantings are normally underway. Rainfall has been light in Cordoba, west-central Santa Fe, and northern cotton areas, however. Light showers (less than 10mm) fell over much of Buenos Aires, except in west-central areas where 10-24mm of rain fell. Moisture supplies are limited for Argentina's crops. In south-central Brazil, substantial rain (50-125mm) returned to Rio Grande do Sul, slowing wheat harvesting and summer crop planting. Showers (10-60mm) in Parana and southern Mato Grosso do Sul benefited crop establishment. Mostly dry weather prevailed over Sao Paulo and Mina Gerais.



MEXICO...Dry weather continued over nearly the entire country. A few light showers (7mm or less) fell in the extreme northwest. Widespread, but mostly light rain also fell in the southeast. Locally heavier showers (10-62mm) were confined to a small area along the southeastern Gulf coast for the second consecutive week. Sunny weather favored cotton harvesting which is in its late stages in the north-central region. Wheat planting continued in the northwest. The west coast farming region continued to rely on irrigation supplies for the growth of vegetables, soybeans, and other crops. Dryness promoted corn harvesting in the Southern Plateau. Tropical shower activity was relatively weak over southern Mexico.

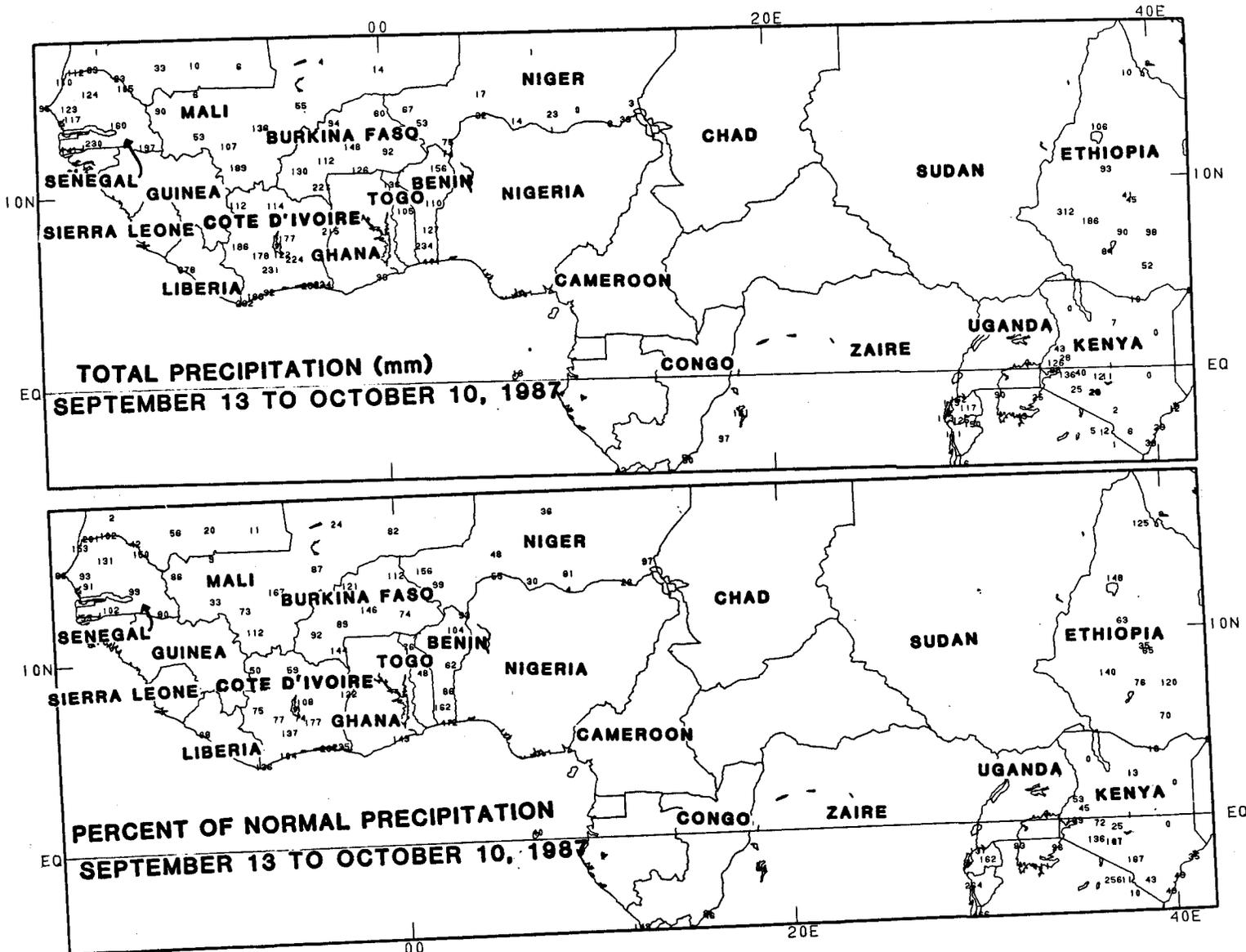
African Agricultural Weather Summary

This overview summarizes current conditions in crop areas where the migratory rainy season and coincident crop growing season are underway. The growing season is ending in Africa north of the equator, and the planting season is underway south of the equator.

In western Africa, late-season showers favored reproductive to filling crops across the Sahel in parts of Senegal, southern Mali, and Burkina Faso. Dry weather persisted over Mauritania, central Mali, and most of southern Niger, depleting already low soil moisture reserves and stressing crops still in grain filling phases. Further south, widespread showers delayed harvest activities from Cote d'Ivoire to

Cameroon but also improved soil moisture levels for the upcoming secondary planting season. Similar conditions covered Nigeria, as indicated by satellite imagery.

In Eastern Africa, scattered showers fell over western Ethiopia and eastern Kenya, delaying the corn harvest in Kenya but benefiting filling grains in Ethiopia. In Somalia, mostly dry weather favored fieldwork in preparation of secondary planting. Satellite imagery indicated scattered shower activity over central and southern Sudan, bringing some relief to late planted crops in reproductive stages that have been exposed to moisture stress for much of the growing season.



The Weekly Weather and Crop Bulletin (ISSN 0043-1974) is published weekly and jointly prepared by the U.S. Department of Commerce, National Oceanic and Atmospheric Administration (NOAA) and the U.S. Department of Agriculture (USDA). Publication began in 1872 as the Weekly Weather Chronicle. It is issued under general authority of the Act of January 12, 1895 (44-USC 213), 53d Congress, 3d Session. NOAA is responsible for managing, printing, and distributing the bulletin. The contents may be reprinted freely, with proper credit.

Annual subscriptions: domestic \$25, foreign \$33 (in U.S. funds by international money order or check drawn on U.S. bank) payable to U.S. Department of Commerce, NOAA. POSTMASTER: Send address changes to Weekly Weather and Crop Bulletin, NOAA/USDA, Joint Agricultural Weather Facility, USDA South Building, Room 5844, Washington, D.C. 20250. Order subscriptions from the office and address listed above. Second class postage paid at Washington, D.C. and additional mailing offices.

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Weather Service/Climate Analysis Center
Managing Editor (Acting) Tom Heddinghaus
Meteorologists Ray McInturff,
Jim Williams, Wes Byrd, and Randy Taylor

Subscriptions (202) 447-7917 . . Andrea Kuiper

U.S. DEPARTMENT OF AGRICULTURE
Economics Management Staff
Editor Sharon Lee
National Agricultural Statistics Service
Agricultural Statistician Clif James
World Agricultural Outlook Board
Agricultural Weather Analysts. . Ray Motha,
Tom Puterbaugh, Mark Brusberg,
and Jeff Andresen

(Continued from p. 18)

County. Silage corn harvest continued Benton County. Cooler temperatures helped coloring, facilitated harvest of red delicious apples. Apple harvest winding down Yakima County, other major production areas by week's end. Grape harvest continued Benton County, noticeable absence of frost, disease. Grape harvest also continued Grant County. Fall frosts nearly halted vegetable harvest Yakima County. Carrot harvest continued Grant County. West of Cascades, pumpkins ripe, ready to pick. Many pumpkins harvested Snohomish, King, Pierce, Thurston Counties. Late summer vegetables such as lettuce, spinach, cabbage, celery, carrots harvested King, Pierce Counties. Range, pastures continued dry. Livestock operators Whitman County feeding hay earlier than normal due to lack of range, pasture feed. Livestock elsewhere continued on fall pastures, hay fields.

WEST VIRGINIA: Average temperature 49^o, 4 to 7^o below normal. Extremes 18^o Greenbank, 79^o Creston. Precipitation sparse.

Days suitable for fieldwork 5.2. Soil moisture 33% short, 67% adequate. Farm activities: General farm maintenance, harvesting hay, corn, livestock care, disking fields, planting fall crops. Corn poor to good. Hay fair to poor. Apples good to fair. Tobacco poor. Fall seedings wheat 57%, barley 78%.

WISCONSIN: Temperatures averaged 49^o, 1^o above normal. Extremes 19^o; 76^o. Rainfall 0.20 to 1.50 in.

Days suitable for fieldwork 4.5. Soil moisture 29% short, 70% adequate, 1% surplus. Rapid harvest progress. Corn for grain 57% harvested, 10% 1986, 13% avg. Yields very good most areas, below normal parts of southeast. Corn silo filling 96%, 46% 1986, 65% avg. Soybeans 72% harvested, 7% 1986, 20% avg.; yields excellent. Fall plowing 31%, 11% 1986, 17% avg. New hay seedings good. Some 3rd, 4th crop still being cut. Early planted winter wheat good, moisture needed for later plantings. Apple harvest nearly complete. Tobacco good condition in sheds.

WYOMING: Temperatures below normal. Precipitation generally below normal.

Days suitable for fieldwork 6.0. Topsoil moisture 77% short, 23% adequate. Subsoil moisture 66% short, 34% adequate. Corn 20% harvested, 10% 1986, 25% avg. Dry beans 95% harvested, 90% 1986, 90% avg. Potatoes 90% harvested, 85% 1986, 85% avg. Sugarbeets 80% dug, 60% 1986, 70% avg. Winter wheat most emerged, fair to good. Livestock average to above average.

NOAA/USDA Joint Agricultural
Weather Facility
Room 5844 USDA South Building
Washington, D.C. 20250

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, \$300

WEEKLY NEWS BULLETIN
SECOND CLASS

SECOND CLASS MAIL
POSTAGE AND FEES PAID
NOAA PERMIT NO.
ISSN 0043 1974