

WEEKLY WEATHER AND CROP BULLETIN

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

U.S. DEPARTMENT OF AGRICULTURE
Statistical Reporting Service
and World Agricultural Outlook Board

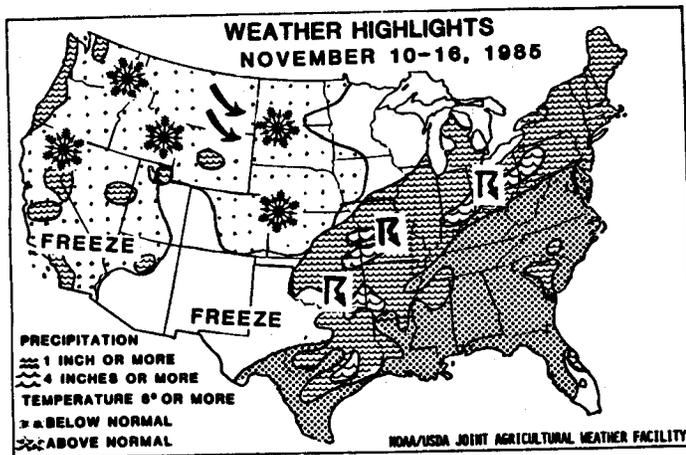
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Nov. 19, 1985

National Weather Summary

November 10 to 16, 1985



HIGHLIGHTS: A severe winter storm spread frigid arctic air into the northern Rockies and then to the west coast through much of California, the Plains, the upper Great Lakes, northern New York, and New England. Heavy snow covered the Cascades, the Sierra Nevada, and Rocky Mountains and then spread through the Plains to western Kansas, the upper Great Lakes, New York, and northern New England. Thunderstorms rumbled from eastern Texas to Missouri and Northeastward into Pennsylvania. Rain fell from the Carolinas through Maryland and along Florida's east coast. Freezing temperatures reached through much of California's crop areas and sub-zero temperatures covered the northern High Plains.

SUNDAY...An arctic outbreak was bringing very cold weather to the Plains as far south as the Texas Panhandle, and in the West, as far as the central Sierras. Snow fell from eastern Washington and Oregon into the Plains and to the central Plateau and Sierras in the West. Moderate rain fell west of Sierras in California. Precipitation covered the Plains; snow fell from western Kansas to the upper Great Lakes. Thunderstorms rumbled through the Ohio Valley and rain extended over the Northeast.

MONDAY...A powerful winter storm brought thunderstorms, snow, and gusty winds to various parts of California. Snow covered the Sierra Nevada Mountains and rain was widespread over lower elevations of the State. Showers covered the southern Plateau while snow fell in the central and northern Plateau and the Rockies. Snow continued in the Plains to western Kansas and northeastward through the upper Great Lakes. Rain fell from the southern Plains through the lower Lakes region and to southern New England. Thunderstorms persisted in the Ohio Valley.

TUESDAY...The heaviest snow moved into Arizona and Utah. Lighter snow lingered in the Sierras and in the central Rockies. Rain fell over southern California. Sub-zero temperatures spread over the northern High Plains and the central Plateau. Light snow continued in much of the northern and central Plains and from the upper Great Lakes to northern New England. Rainshowers continued from central Texas through the Ohio Valley and the Northeast. Showers also covered the Southeast coast and the Carolinas.

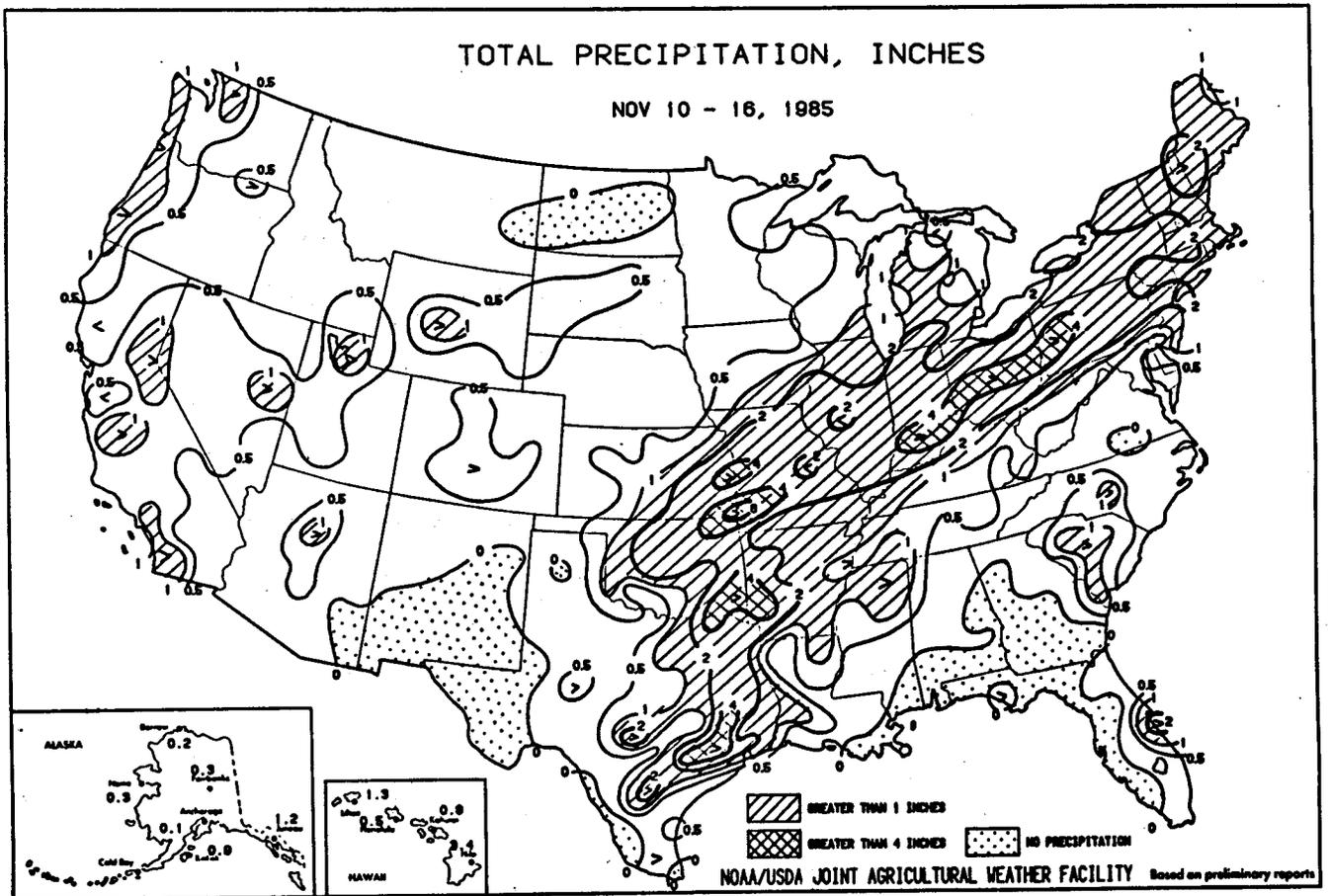
WEDNESDAY...Freezing temperatures covered northern California and reached into the central valleys and northern deserts of the State. Snow lingered on the central Plateau and was heavy in the central Rockies, otherwise, the East was clear. Snow still fell in South Dakota and Nebraska and the upper reaches of the Great Lakes. A band of freezing rain was just south of these areas. Rainshowers reached from the Texas Panhandle through the lower Great Lakes, the Ohio Valley, and from the central Appalachians to New England. Light showers fell all along the southeastern coast.

THURSDAY...Freezing temperatures reached into many of California's crop areas and single digit temperatures appeared in eastern Washington. Later in the day, light showers began along the northwest coast. Heavy snow reached into Kansas and freezing rain covered parts of Kansas and Nebraska. Thunderstorms boomed from north central Texas into Missouri, and showers reached through the Ohio Valley into southern New England.

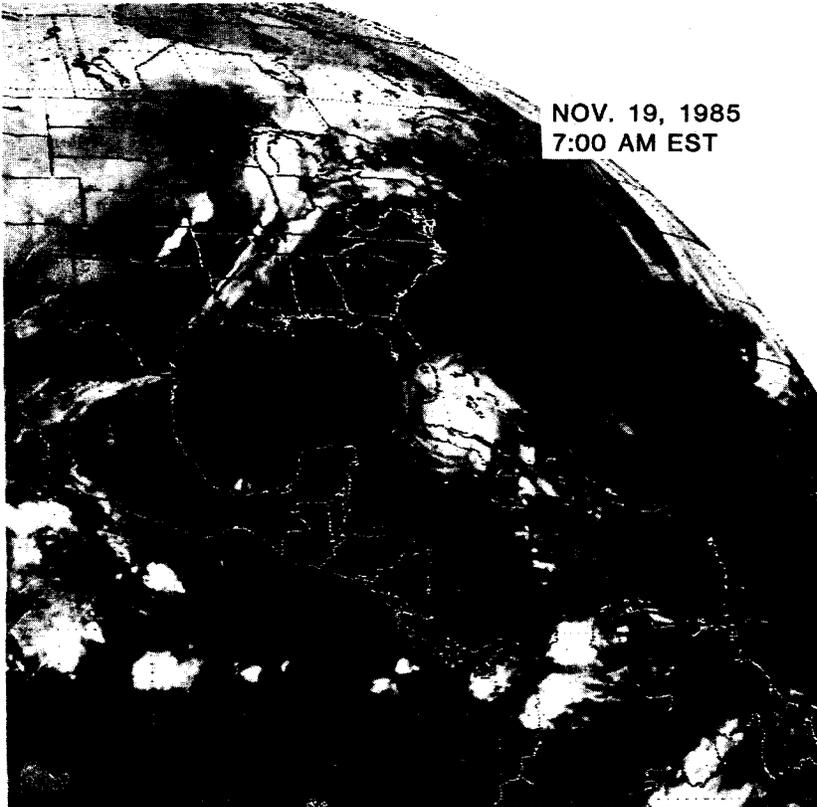
FRIDAY...Temperatures warmed a little in the West Coast States, but frost still invaded parts of the California crop areas. A new storm brought rain to the coast to central California and snow to the higher elevations inland. Snow piled high in the central Plains and moderate to heavy showers accompanied thunderstorms from eastern Texas to the lower Lakes States and through Pennsylvania and Maryland. A few showers fell in the Southeast.

(Continued to p. 3)

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USA NOAA GOES-E 11/19/85 1200Z NE IR



NOV. 19, 1985
7:00 AM EST

HURRICANE KATE IS SHOWN SKIRTING THE NORTHERN COAST OF CUBA AS IT MOVES ALONG A 280-DEGREE COURSE. THE EYE OF THE STORM IS READILY VISIBLE AT LATITUDE 22.7 DEGREES AND LONGITUDE 80.5 DEGREES. THE HIGHEST WINDS IN THE STORM ARE 110 MPH NEAR THE CENTER. THE OUTERMOST SPIRAL BAND AROUND THE STORM IS ALREADY PRODUCING RAIN SHOWERS OVER SOUTHERN FLORIDA.

HURRICANE KATE IS A LATE SEASON STORM. ONLY FOUR NOVEMBER HURRICANES HAVE BEEN REPORTED OVER CUBA IN THE LAST 100 YEARS.

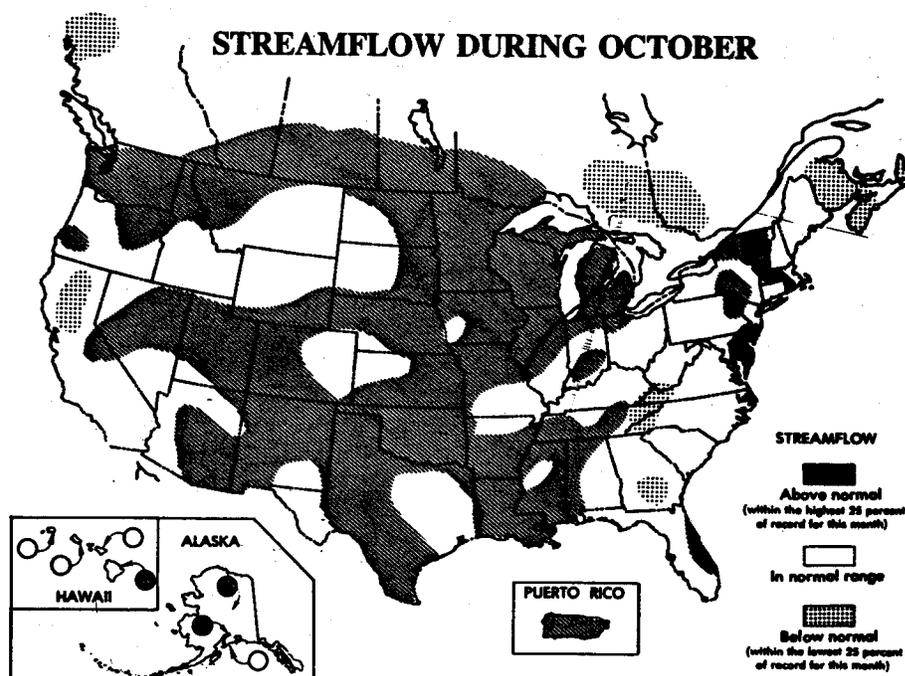
IN THE UNITED STATES, A COLD FRONT REACHES FROM THE GREAT LAKES REGION INTO TEXAS. SHOWERS AND THUNDERSTORMS ARE OCCURRING ALONG AND AHEAD OF THE FRONT, AND SNOW IS FALLING IN THE UPPER LAKES REGION AND IN THE NORTHERN PLAINS.

National Water Conditions

UNITED STATES
Department of the Interior
Geological Survey

CANADA
Department of the Environment
Water Resources Branch

OCTOBER 1985



OCTOBER 1985 STREAMFLOW CONDITIONS

Heavy precipitation fell over much of Puerto Rico and the United States. Tropical Storm Isabel devastated Puerto Rico on October 6-7. In Puerto Rico, floods and a massive landslide killed about 190 people and caused damages of about \$50 million to \$500 million. In the United States, Hurricane Juan battered the Louisiana and Mississippi coasts October 27-31 causing property damages of about \$1.0 billion. Remnants of Hurricane Waldo brought heavy rain and floods from western Texas to Michigan on October 9-11.

Streamflow levels were normal or above at 93 percent of the U.S. Geological Survey index stations in the United States and southern Canada, up from 91 percent in that category in September. Streamflow generally decreased in Florida, South Carolina, South Dakota, Idaho, Saskatchewan, Alberta, and Alaska; was variable in British Columbia, New Brunswick, Nova Scotia, Ohio, North Carolina, Georgia, North Dakota, Colorado, Utah, and Arizona; and increased in the rest of the United States and southern Canada. The monthly

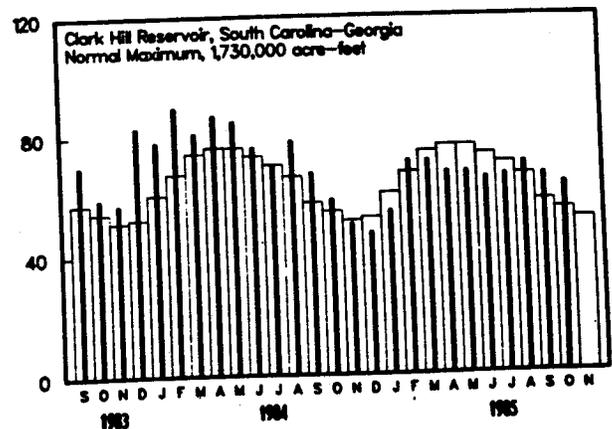
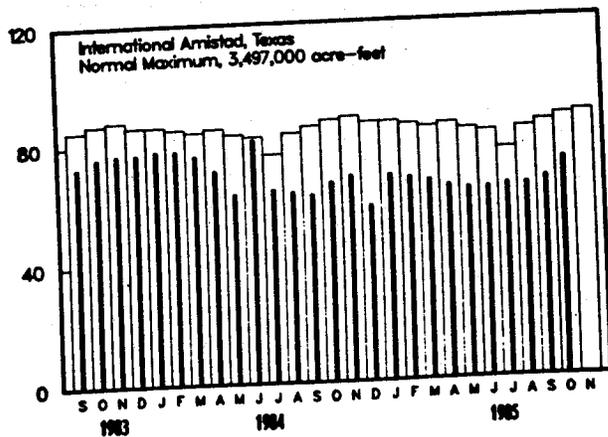
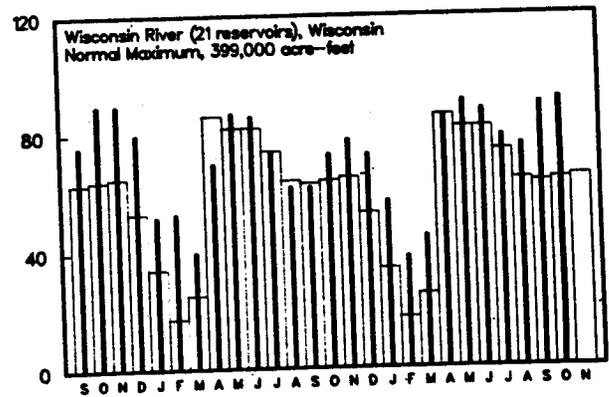
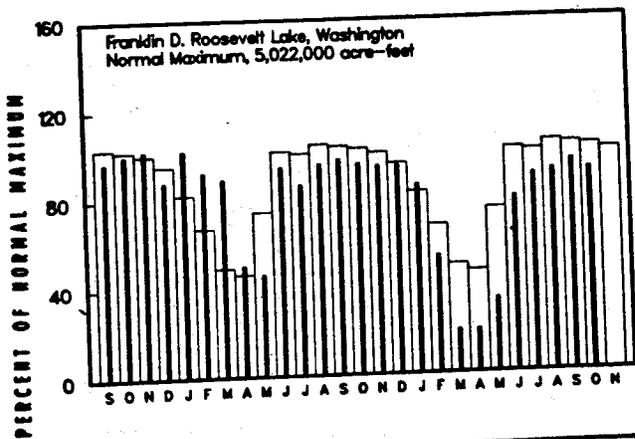
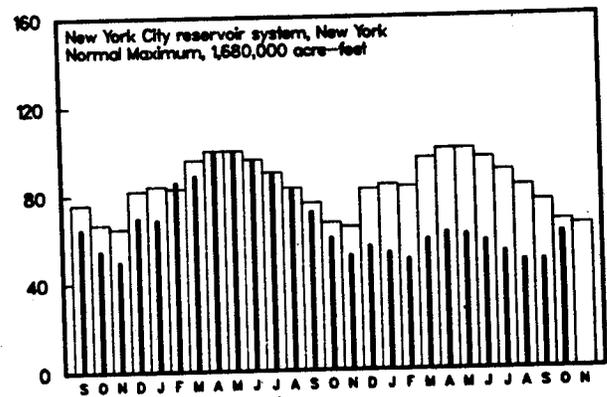
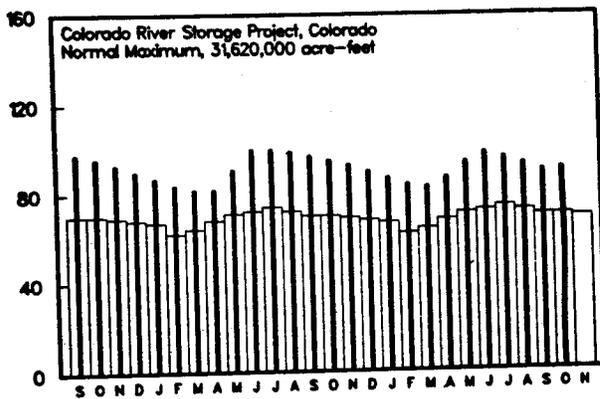
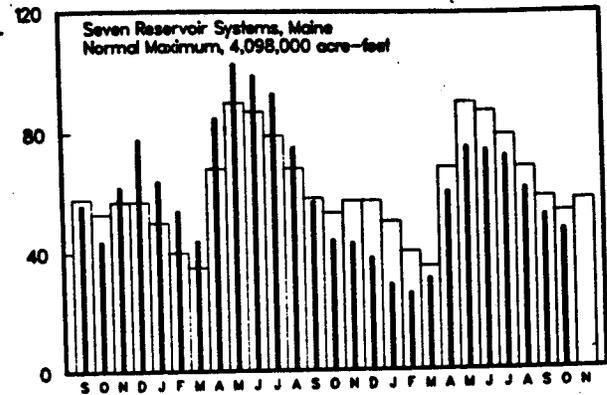
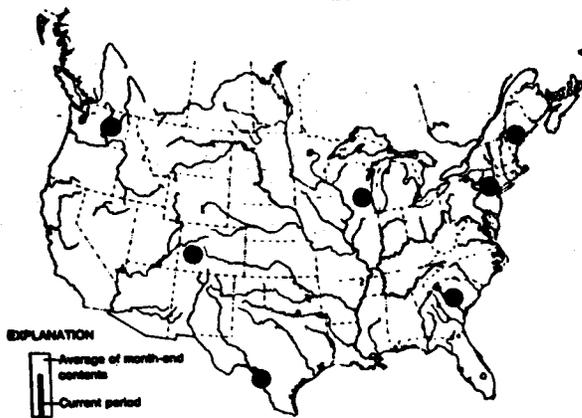
mean discharge and the maximum daily mean flow were highest of record for October at six index stations.

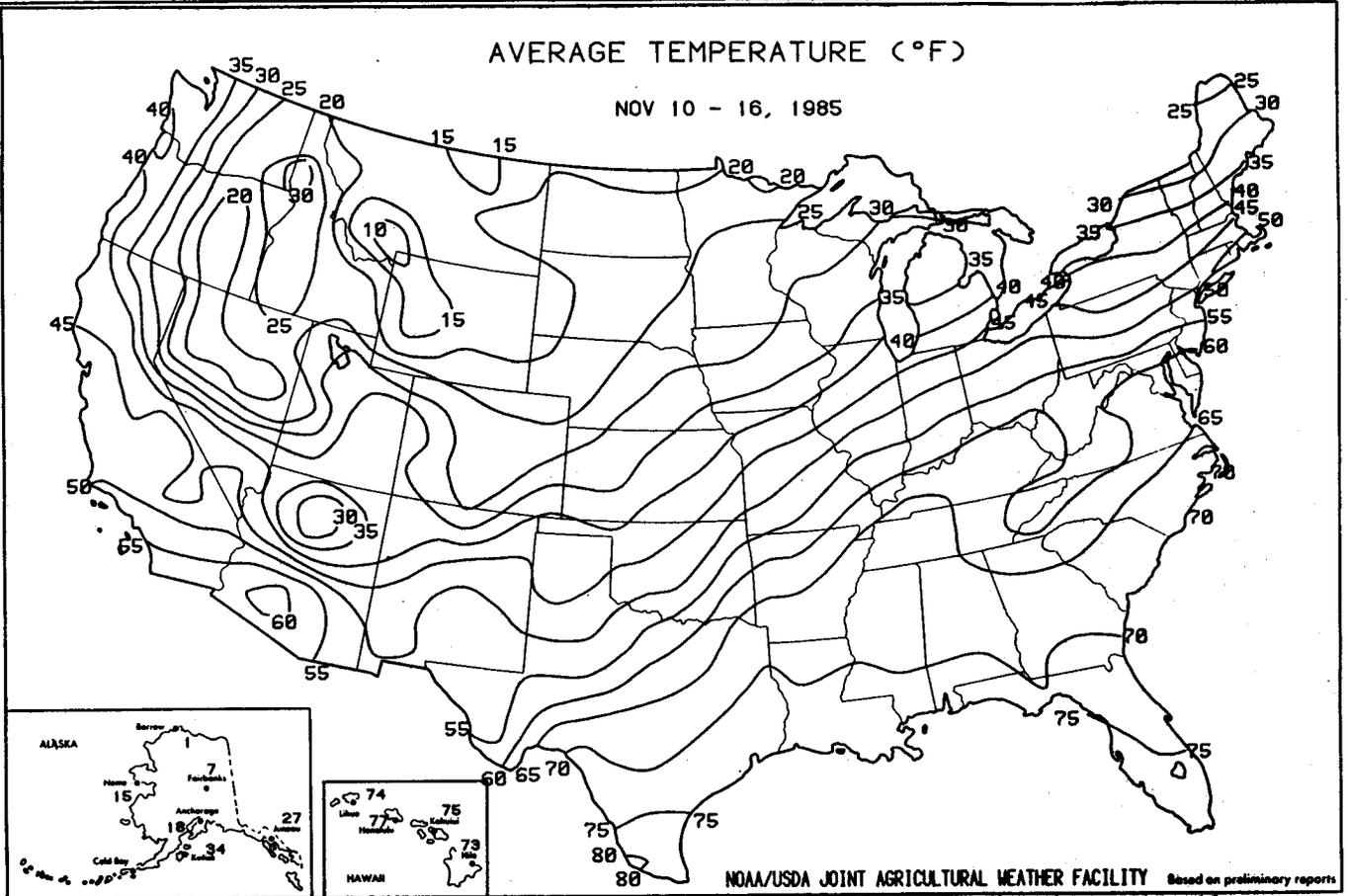
The combined flow of the largest rivers in the lower 48 States—Mississippi, St. Lawrence, and Columbia—averaged 805,513 cubic feet per second during October, 11 percent above last month and 26 percent above average. These three large river systems account for runoff from more than half the conterminous United States and provide a useful check on the status of the Nation's surface-water resources.

Below-normal streamflow persisted only in parts of Virginia, New York, New Brunswick, and California. Monthly mean flows moved into the below-normal range in parts of British Columbia, Ontario, Quebec, Nova Scotia, New Brunswick, North Carolina, Tennessee, and Georgia.

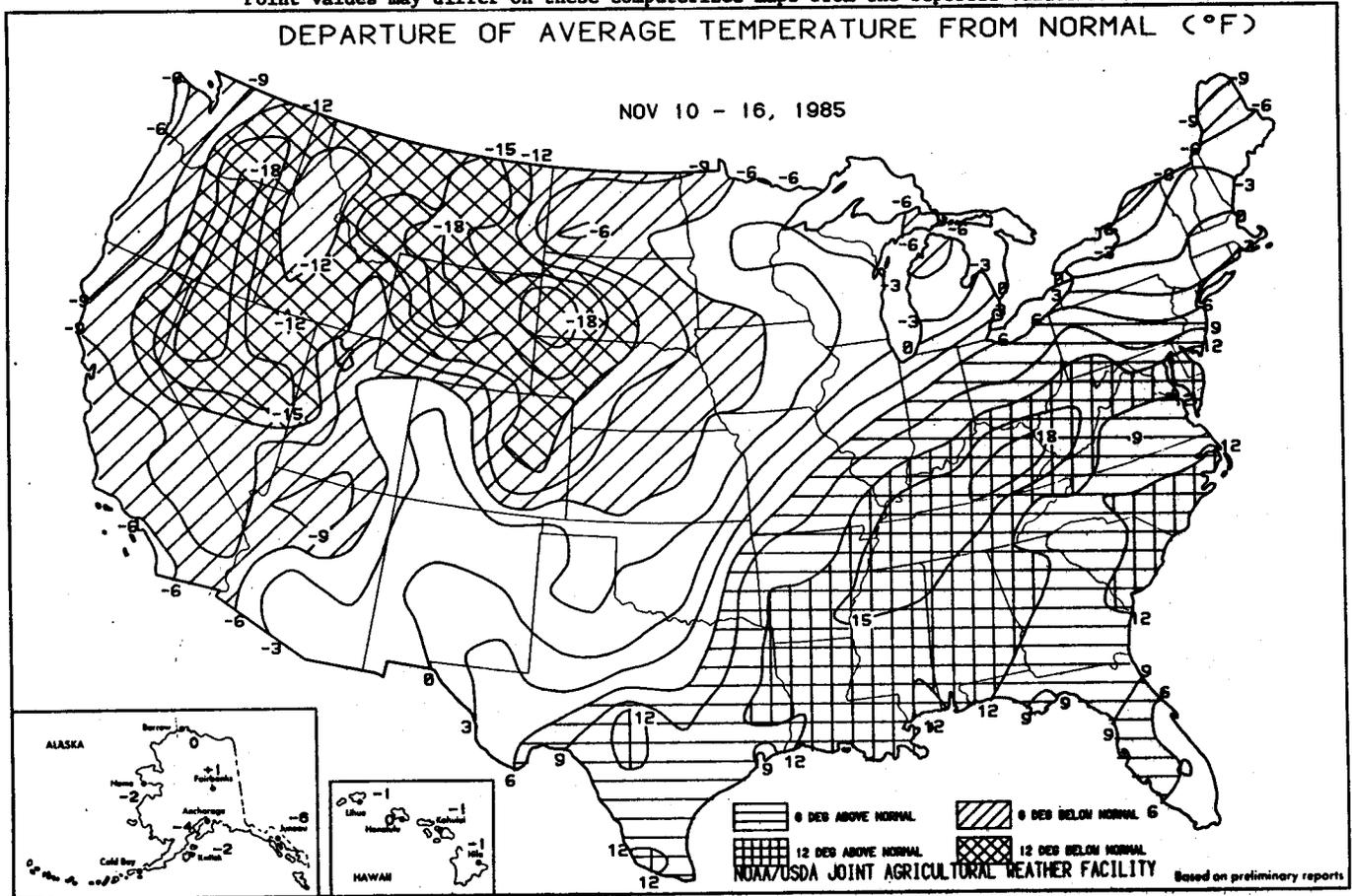
Flood stages, as designated by the National Weather Service, were exceeded on many rivers and small streams in Oregon, Texas and adjacent States, and also in Minnesota, Iowa, Kansas, Missouri, Mississippi, Alabama, Florida, and Indiana.

**USABLE CONTENTS OF SELECTED RESERVOIRS AND RESERVOIR SYSTEMS,
SEPTEMBER 1983 TO OCTOBER 1985**





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



	6 DEG ABOVE NORMAL		6 DEG BELOW NORMAL
	12 DEG ABOVE NORMAL		12 DEG BELOW NORMAL

Weather Data for the Week Ending November 16, 1985

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 OF		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	79	56	82	51	68	15	.1	-.8	.1	7.9	91	44.9	94	98	54	0	0	1	0
MOBILE	81	62	83	56	72	13	0	-.8	0	23.8	220	64.2	112	100	60	0	0	0	0
MONTGOMERY	80	56	82	48	68	12	0	-.7	0	7.6	92	40.4	95	100	56	0	0	0	0
AK ANCHORAGE	25	11	40	-5	18	-4	.1	-.2	0	4.2	88	14.1	104	86	57	0	0	6	2
BARROW	8	-7	32	-24	1	0	.2	.1	.1	1.3	97	3.6	82	89	74	0	0	7	7
FAIRBANKS	15	-2	28	-26	7	1	.3	.2	.2	4.1	190	11.2	120	91	74	0	0	5	5
JUNEAU	32	22	40	11	27	-6	1.2	0	.9	12.0	70	32.9	73	90	65	0	0	6	4
KODIAK	39	29	44	25	34	-2	.9	-.7	.7	13.4	63	59.7	92	88	58	0	0	7	7
NOME	22	9	35	-6	15	3	.3	.1	.2	9.4	229	19.8	145	89	70	0	0	7	0
AZ PHOENIX	69	47	79	40	58	3	1.0	.9	1.0	3.4	224	6.4	107	77	30	0	0	5	1
PRESCOTT	50	28	61	18	39	9	.8	-.5	.6	2.7	81	12.3	75	91	45	0	0	5	2
TUCSON	67	43	76	32	55	-4	.4	-.2	.4	3.5	140	12.1	122	82	33	0	0	1	0
YUMA	67	48	74	44	58	-7	.3	-.3	.2	1.9	300	2.2	100	60	27	0	0	0	0
AR FORT SMITH	70	51	76	35	60	10	2.9	2.1	1.6	11.4	137	41.9	118	95	66	0	0	0	0
LITTLE ROCK	71	56	78	40	64	11	1.6	.7	1.2	15.0	175	41.7	104	97	74	0	0	0	2
CA BAKERSFIELD	57	37	67	34	47	-10	.8	-.7	.8	1.2	161	3.2	68	95	50	0	0	2	3
EUREKA	53	37	58	31	45	-7	.6	-.8	.3	6.6	101	18.8	64	85	61	0	0	2	3
FRESNO	55	37	59	32	46	-8	1.3	1.0	.8	2.6	221	6.0	72	88	54	0	0	1	1
LOS ANGELES	63	47	71	43	55	-7	.8	-.4	.7	1.4	121	4.9	51	79	38	0	0	3	3
RED BLUFF	53	32	60	24	43	-11	.3	-.4	.2	2.6	84	8.1	50	87	36	0	0	3	3
SACRAMENTO	52	36	56	30	44	-10	.7	-.2	.5	1.8	79	6.2	47	97	51	0	0	3	3
SAN DIEGO	64	50	69	45	57	-5	1.8	1.5	1.6	2.2	208	4.6	62	80	42	0	0	0	2
SAN FRANCISCO	54	40	56	37	47	-8	.4	-.2	.2	1.4	59	8.3	56	92	46	0	0	7	4
CO DENVER	32	20	49	14	26	-13	.3	-.1	.2	4.0	149	15.4	107	85	63	0	0	7	4
GRAND JUNCTION	46	30	60	21	38	-3	.2	0	.2	4.5	232	10.9	154	88	43	0	0	5	2
PUEBLO	36	17	48	6	26	-14	.7	-.6	.6	1.7	87	12.6	121	97	66	0	0	7	2
CT BRIDGEPORT	54	42	66	29	48	2	.6	-.3	.4	4.8	56	30.7	86	87	68	0	0	1	4
HARTFORD	52	36	71	24	44	1	2.4	1.5	1.1	10.5	110	33.9	89	92	59	0	0	2	2
DC WASHINGTON	68	53	77	46	61	11	.4	-.3	.4	12.0	158	32.2	94	91	59	0	0	0	1
FL APALACHICOLA	77	63	79	58	70	8	T	-.7	.2	15.0	131	58.2	117	98	79	0	0	0	0
DAYTONA BEACH	81	69	82	61	72	7	.2	-.4	.2	15.0	117	43.1	96	100	66	0	0	0	1
JACKSONVILLE	82	64	83	62	73	12	.1	-.4	.1	26.5	227	34.1	110	100	64	0	0	0	0
KEY WEST	84	75	85	72	80	4	T	-.8	T	9.6	73	37.4	103	87	65	0	0	0	3
MIAMI	84	71	86	68	77	4	.2	-.5	.1	14.2	84	51.8	95	89	54	0	0	2	0
ORLANDO	83	66	86	62	75	7	.3	-.1	.3	8.4	88	43.2	96	100	59	0	0	0	0
TALLAHASSEE	82	57	83	51	69	10	T	-.7	T	10.7	96	50.7	87	100	60	0	0	0	0
TAMPA	85	65	87	61	75	8	0	-.4	0	14.6	154	43.4	100	99	51	0	0	0	0
WEST PALM BEACH	83	73	85	66	78	6	.1	-.7	.1	12.7	66	46.3	82	85	61	0	0	0	1
GA ATLANTA	77	58	80	49	67	15	0	-.8	0	8.8	119	43.9	103	97	56	0	0	0	0
AUGUSTA	78	57	82	46	68	13	.4	0	.4	7.4	113	29.7	77	95	62	0	0	0	1
MACON	79	56	82	46	67	12	T	-.5	T	5.7	90	29.6	75	100	57	0	0	0	0
SAVANNAH	79	61	82	58	70	12	.9	-.5	.9	5.1	61	33.6	73	100	67	0	0	2	2
HI HILO	81	66	82	64	73	-1	3.4	-.2	2.2	21.7	89	107.9	100	93	66	0	0	0	2
HONOLULU	84	70	87	66	77	0	.5	-.2	.3	6.8	163	15.3	83	90	59	0	0	2	2
KAHULUI	82	67	86	62	75	-1	.8	-.2	.5	4.9	210	11.4	72	97	68	0	0	0	4
LIHUE	81	67	84	66	74	-1	1.3	-.1	.8	7.7	79	24.7	69	92	64	0	0	7	3
ID BOISE	36	22	41	15	29	-11	.4	.1	.2	3.4	171	8.9	92	84	64	0	0	4	1
LEWISTON	37	25	45	19	31	-9	.1	-.2	.1	2.7	111	9.0	83	96	54	0	0	6	7
POCATELLO	30	16	38	8	23	-13	.7	.5	.3	2.8	133	9.0	95	94	74	0	0	0	5
IL CHICAGO	44	37	48	34	41	0	1.2	.7	.4	12.3	183	35.9	118	93	73	0	0	2	5
MOLINE	43	35	47	31	39	-1	2.2	1.7	.9	14.5	192	36.9	107	96	75	0	0	2	6
PEORIA	48	38	57	33	43	2	2.2	1.8	1.0	12.1	168	37.9	118	98	85	0	0	2	5
QUINCY	50	37	58	33	44	1	3.9	3.4	2.1	13.2	153	35.2	100	100	88	0	0	2	6
ROCKFORD	43	34	47	30	38	0	1.3	.7	.6	14.1	178	36.2	107	98	78	0	0	2	5
SPRINGFIELD	55	41	65	35	48	5	2.0	1.6	.6	6.5	97	32.2	104	99	86	0	0	0	6
IN EVANSVILLE	66	52	74	46	59	13	3.4	2.6	1.1	13.5	198	42.0	115	99	76	0	0	0	6
FORT WAYNE	54	40	65	35	47	6	1.8	1.2	.7	7.2	112	30.1	98	100	84	0	0	0	6
INDIANAPOLIS	58	45	66	38	52	9	2.9	2.2	1.5	8.1	118	38.7	112	100	80	0	0	0	7
SOUTH BEND	48	37	58	31	43	1	2.4	1.7	.7	9.5	119	34.2	101	98	83	0	0	2	6
IA DES MOINES	37	31	41	27	34	-6	.6	.2	.3	10.0	163	26.3	90	95	76	0	0	5	5
SIOUX CITY	33	26	37	21	30	-8	.4	.2	.4	6.3	132	22.4	93	97	78	0	0	7	6
WATERLOO	36	29	40	26	33	-4	.3	-.2	.1	9.4	138	28.0	90	95	75	0	0	6	3
KS CONCORDIA	38	31	49	28	35	-7	.2	-.1	.1	5.6	102	24.9	96	97	80	0	0	5	6
DODGE CITY	40	30	61	25	35	-8	.4	.2	.4	6.8	188	21.9	110	97	80	0	0	6	3
GOODLAND	35	23	51	18	29	-10	.3	.2	.2	3.3	124	21.6	138	98	77	0	0	7	6
TOPEKA	44	36	52	32	40	-4	1.5	1.1	.8	15.0	205	43.5	139	98	82	0	0	1	6
WICHITA	45	35	54	31	40	-5	1.5	1.2	1.3	13.0	191	32.8	121	98	79	0	0	2	4
KY BOWLING GREEN	71	57	74	44	64	17	.5	-.4	.4	9.2	116	36.4	86	93	67	0	0	0	3
LEXINGTON	69	55	73	45	62	16	1.4	-.6	.7	8.4	117	33.9	84	93	69	0	0	0	5
LOUISVILLE	67	54	73	41	60	13	2.3	1.4	.9	8.7	112	35.3	92	98	72	0	0	0	6
LA ALEXANDRIA	76	63	81	57	69	11	.5	-.7	.5	22.8	250	58.9	124	95	69	0	0	0	1
BATON ROUGE	81	65	84	60	73	14	.1	-.8	.1	16.6	185	55.3	114	98	64	0	0	0	0
LAKE CHARLES	79	67	82	62	73	13	.4	-.4	.4	16.0	153	47.3	103	98	70	0	0	0	1
NEW ORLEANS	81	63	82	57	72	12	T	-.9	T	19.0	183	61.2	117	97	65	0	0	0	1

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

Weather Data for the Week Ending November 16, 1985

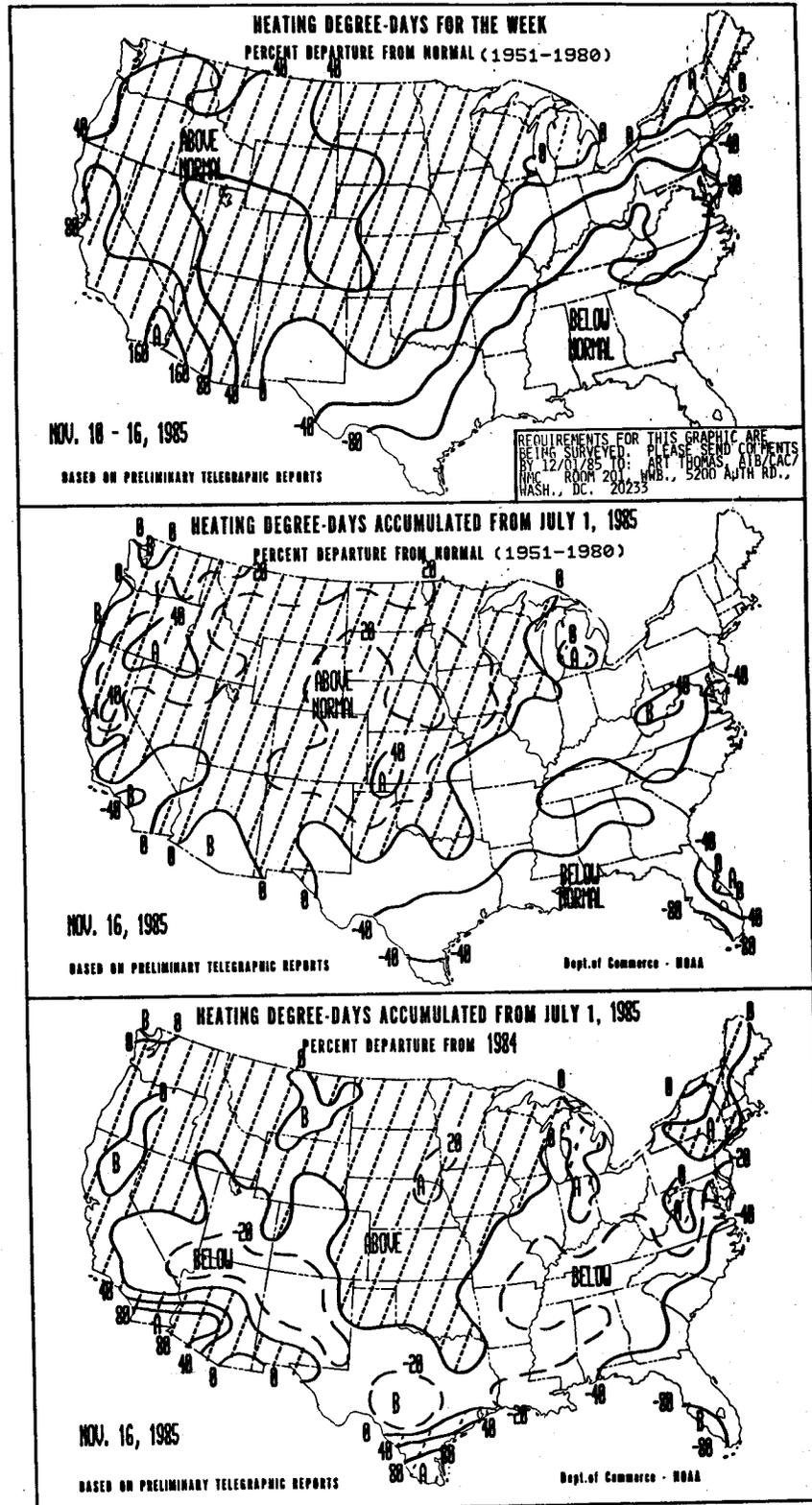
STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE SEPT. 1	PCT. NORMAL SINCE 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
SHREVEPORT	78	61	83	51	69	13	.4	-.6	.2	14.8	189	44.2	116	97	63	0	0	3	0
ME CARIBOU	30	17	35	6	23	-9	1.8	-.2	.3	6.3	78	25.9	82	92	61	0	6	4	0
PORTLAND	45	30	58	19	38	-2	1.9	-.7	1.1	12.3	129	30.6	83	90	51	0	4	5	1
MD BALTIMORE	67	50	76	44	59	12	.4	-.3	.4	10.4	127	32.9	89	89	57	0	0	2	0
SALISBURY	72	53	77	46	62	14	.5	-.3	.5	9.2	99	33.1	83	95	57	0	0	1	0
MA BOSTON	54	37	70	25	45	-1	2.0	1.0	.6	9.0	101	33.3	89	98	65	0	0	5	0
CHATHAM	56	45	62	35	51	5	1.0	0	.4	7.2	74	39.4	99	99	71	0	0	4	0
MI ALPENA	38	26	43	17	32	-4	.4	-.1	.2	7.3	120	29.3	114	97	67	0	0	7	0
DETROIT	51	37	58	35	44	-4	1.7	1.1	.8	10.4	187	37.0	136	90	71	0	0	6	1
FLINT	44	34	50	31	39	-1	.9	-.4	.3	13.6	238	37.8	144	98	77	0	2	5	0
GRAND RAPIDS	41	32	45	26	37	-3	1.1	-.4	.6	12.1	159	36.7	120	97	71	0	3	5	0
HOUGHTON LAKE	35	27	39	18	31	-5	1.0	-.4	.5	9.6	155	29.8	120	94	74	0	6	5	0
LANSING	42	32	48	29	37	-5	.6	0	.2	8.0	136	31.1	118	98	82	0	4	5	0
MARQUETTE	32	22	36	15	27	-4	.6	-.1	.5	15.1	172	45.8	137	90	59	0	7	3	0
MUSKOGON	41	31	45	24	36	-4	.7	-.7	.5	12.8	177	37.1	134	93	66	0	4	5	0
SAULT STE. MARIE	34	22	39	10	28	-6	.6	-.4	.4	8.3	98	34.4	117	88	51	0	7	4	0
MN ALEXANDRIA	32	21	39	16	27	-4	.4	-.1	.3	5.7	98	22.9	98	94	57	0	7	2	0
DULUTH	32	21	37	13	26	-3	.6	-.2	.5	8.6	133	29.6	107	95	53	0	7	3	0
INT'L FALLS	29	11	39	5	20	-6	.1	-.2	.1	5.3	94	28.6	125	95	61	0	7	2	0
MINNEAPOLIS	35	25	39	22	30	-4	.2	-.1	.2	8.5	167	29.3	117	89	65	0	7	1	0
ROCHESTER	32	24	35	17	28	-6	.2	-.2	.1	9.1	152	25.2	94	94	76	0	7	3	0
MS GREENWOOD	77	61	83	53	69	16	.8	-.3	.8	11.4	137	33.9	75	98	61	0	0	2	1
JACKSON	79	60	85	57	70	14	.2	-.7	.2	11.6	142	43.7	97	100	66	0	0	1	0
MERIDIAN	78	57	82	53	67	13	.1	-.6	.1	13.0	168	47.2	103	100	62	0	0	1	1
MO CAPE GIRARDEAU	69	51	75	43	60	0	1.6	.8	.6	8.0	101	42.4	109	99	74	0	0	2	2
COLUMBIA	54	39	70	34	47	-2	2.3	1.8	1.1	7.4	91	44.6	134	98	81	0	0	6	5
KANSAS CITY	44	36	54	33	40	-4	2.4	2.1	1.0	19.4	238	50.2	152	99	86	0	0	5	2
SAINT LOUIS	61	45	71	38	53	7	3.0	2.4	1.4	6.2	97	40.9	134	99	80	0	0	5	2
SPRINGFIELD	60	44	70	32	52	6	4.7	4.0	1.7	11.6	129	46.1	129	99	81	0	1	5	4
MT BILLINGS	27	13	40	2	20	-16	T	-.2	T	3.2	111	11.7	84	84	61	0	7	2	0
GLASGOW	24	2	37	-10	13	-17	.1	0	-.1	1.7	106	11.9	108	93	68	0	7	1	0
GREAT FALLS	29	12	46	-5	20	-14	T	-.2	T	4.8	206	15.9	112	82	59	0	7	2	0
HAVRE	26	5	47	-8	16	-15	T	-.1	T	3.9	227	10.0	96	91	63	0	7	1	0
HELENA	27	6	40	-4	17	-15	T	-.1	T	3.0	167	8.1	76	93	54	0	7	2	0
KALISPELL	26	9	37	1	18	-14	.1	-.2	.1	6.2	226	13.6	99	86	63	0	7	0	0
MILES CITY	30	11	41	4	21	-12	T	-.1	T	2.2	95	11.3	86	92	58	0	7	1	0
MISSOULA	30	12	38	5	21	-12	T	-.2	T	4.7	202	11.9	102	86	50	0	6	3	0
NE GRAND ISLAND	35	26	44	18	31	-8	.3	-.1	.2	8.1	201	28.2	126	98	82	0	6	2	0
LINCOLN	37	30	44	27	34	-6	.1	-.1	.1	5.9	114	30.0	116	94	75	0	6	3	0
NORFOLK	33	26	36	22	30	-7	.3	.2	.3	6.1	156	24.9	109	95	78	0	7	2	0
NORTH PLATTE	31	21	39	5	26	-10	.5	.3	.5	5.1	177	18.2	97	91	65	0	7	2	0
OMAHA	35	29	41	26	32	-7	.3	0	.2	5.1	82	21.3	74	92	81	0	6	5	0
SCOTTSELUFF	32	11	49	4	21	-15	.6	.4	.3	4.4	210	10.4	75	95	73	0	7	4	0
VALENTINE	28	16	34	3	22	-13	.2	.1	.1	4.0	159	14.5	87	85	73	0	7	2	0
NV ELY	31	4	47	-12	17	-17	1.1	.9	1.0	4.3	269	8.9	111	91	61	0	7	4	1
LAS VEGAS	55	36	65	28	45	-9	.1	-.1	.1	2	30	1.0	27	66	30	0	3	1	0
RENO	31	12	36	4	22	-19	.9	.8	.8	2.2	239	4.2	71	95	71	0	7	4	0
WINNEMUCCA	33	8	40	-8	21	-18	.6	.5	.4	1.4	110	4.3	65	96	60	0	7	3	0
NH CONCORD	47	29	63	13	38	-1	1.6	.8	.6	10.7	132	28.0	89	97	55	0	4	5	1
NJ ATLANTIC CITY	69	50	76	39	59	13	1.1	.2	1.1	4.7	59	26.7	73	94	59	0	0	1	1
NM ALBUQUERQUE	55	34	66	22	45	0	.1	0	.1	3.8	196	10.5	140	76	30	0	3	1	0
CLOVIS	58	32	69	25	45	-2	T	-.1	T	7.7	190	27.6	169	88	40	0	5	2	0
ROSWELL	65	39	75	23	52	2	0	0	0	2.9	100	12.4	133	79	29	0	4	6	2
NY ALBANY	46	32	59	21	39	-1	2.4	1.7	.9	8.3	107	26.1	83	97	69	0	4	7	2
BINGHAMTON	47	32	57	23	40	1	2.1	1.4	.8	9.9	125	29.4	91	99	77	0	2	6	3
BUFFALO	48	33	59	27	41	-1	2.7	1.8	.9	13.3	163	39.8	123	99	81	0	3	5	1
NEW YORK	61	45	72	35	53	5	2.6	1.8	2.3	9.4	109	33.3	89	87	63	0	0	5	6
ROCHESTER	47	33	58	26	40	-1	1.7	1.0	.6	10.5	159	27.2	99	98	80	0	2	6	2
SYRACUSE	47	32	60	22	40	-2	2.2	1.3	.6	11.4	139	29.6	86	99	76	0	2	6	2
NC ASHEVILLE	70	46	73	39	58	11	.2	-.6	.2	6.3	69	32.1	75	100	58	0	2	3	0
CHARLOTTE	72	52	77	43	62	10	.8	.1	.6	8.3	107	42.2	110	96	62	0	0	2	1
GREENSBORO	70	49	76	41	60	11	.5	-.1	.4	6.2	75	31.7	84	97	62	0	0	2	0
HATTERAS	76	62	79	59	69	12	.1	-.1	0	32.9	249	64.0	131	98	67	0	0	3	0
NEW BERN	78	57	82	50	68	13	.2	-.5	.1	18.7	175	48.5	101	100	61	0	0	0	0
RALEIGH	72	52	78	44	62	12	T	-.6	T	4.3	57	32.0	86	92	59	0	0	2	0
WILMINGTON	80	60	83	55	70	14	.4	-.4	.3	9.4	91	40.0	83	100	68	0	7	0	0
ND BISMARCK	32	11	40	6	22	-8	T	-.1	T	2.7	106	16.6	113	91	49	0	7	0	0
FARGO	32	14	39	6	23	-7	T	-.2	T	2.5	70	17.5	94	93	59	0	7	1	0
GRAND FORKS	30	9	38	5	19	-9	T	-.2	T	2.7	74	15.6	90	95	68	0	7	0	0
WILLISTON	32	11	49	1	21	-7	T	-.1	T	2.9	124	11.4	87	89	53	0	7	1	4
OH AKRON-CANTON	57	43	66	40	50	8	3.6	3.0	1.0	10.1	155	34.5	108	99	76	0	0	7	2
CINCINNATI	64	50	69	37	57	12	4.1	3.4	1.8	11.8	167	40.3	113	99	74	0	0	7	1
CLEVELAND	57	43	67	39	50	7	1.5	.9	.7	12.2	179	36.5	117	94	74	0	0	7	2
COLUMBUS	59	47	68	41	53	10	4.9	4.5	2.4	11.3	186	34.3	104	89	67	0	0	7	3

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

Weather Data for the Week Ending November 16, 1985

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE SEPT. 1	PCT. NORMAL SINCE SEPT. 1	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
DAYTON	60	47	68	39	53	10	4.2	3.6	2.1	9.0	155	31.0	100	94	72	0	0	7	2
TOLEDO	53	39	61	35	46	6	1.5	.9	.6	8.8	155	34.0	121	97	81	0	0	6	1
YOUNGSTOWN	56	42	64	38	49	8	3.0	2.4	.8	11.6	161	36.2	109	99	76	0	0	7	3
OK OKLAHOMA CITY	55	39	71	32	47	-3	2.9	2.6	1.5	12.9	183	43.3	149	95	74	0	0	4	3
TULSA	57	42	72	34	50	0	3.9	3.2	1.8	13.4	145	47.5	133	96	77	0	0	4	3
OR ASTORIA	49	31	52	26	40	-7	1.5	.8	1.3	16.0	112	37.6	71	93	56	0	0	3	1
BURNS	28	2	34	-10	15	-21	.1	-.1	.1	3.0	153	7.4	114	—	—	0	0	5	0
MEDFORD	45	26	48	17	36	-9	.4	-.3	.2	3.9	102	8.7	58	97	59	0	0	7	0
PENDLETON	31	15	42	7	23	-19	.2	.2	.3	4.4	190	9.4	96	86	60	0	0	2	0
PORTLAND	45	30	50	24	37	-9	.9	-.3	.7	8.5	117	19.3	68	85	45	0	0	4	1
SALEM	47	28	51	19	37	-8	1.0	-.3	.7	8.0	103	19.8	65	93	55	0	0	5	2
PA ALLENTOWN	55	42	69	32	49	5	3.5	2.6	2.6	15.2	169	41.9	108	93	66	0	0	4	3
ERIE	55	40	65	37	47	6	2.6	1.7	.8	15.8	171	40.7	118	93	72	0	0	6	3
HARRISBURG	55	44	70	35	50	5	2.3	1.5	1.4	8.4	104	30.0	87	90	65	0	0	4	2
PHILADELPHIA	64	47	72	37	56	9	1.8	1.1	1.6	10.1	128	31.0	85	95	65	0	0	4	1
PITTSBURGH	59	40	65	39	53	10	4.4	3.8	1.8	11.4	175	34.0	104	92	65	0	0	7	4
SCRANTON	52	40	62	30	46	4	1.9	1.2	1.0	12.3	160	36.4	117	94	68	0	0	5	1
RI PROVIDENCE	58	39	70	26	48	4	1.4	.4	.6	8.4	89	37.0	95	92	64	0	0	2	2
SC CHARLESTON	80	62	82	59	71	13	3.3	.2	.2	8.7	97	45.3	96	100	66	0	0	0	1
COLUMBIA	77	53	81	42	65	13	1.0	.5	1.0	10.0	124	42.5	96	100	64	0	0	1	0
FLORENCE	77	58	83	52	68	12	.6	.1	.1	6.7	88	30.3	76	99	68	0	0	2	0
GREENVILLE	72	51	77	42	62	10	.4	-.4	.3	9.0	95	38.9	86	99	63	0	0	2	0
SD ABERDEEN	29	16	32	4	23	-9	.5	.3	.3	4.1	145	17.1	101	95	71	0	0	7	5
HURON	30	20	34	11	25	-8	.4	.2	.2	5.4	172	23.0	128	96	78	0	0	7	4
RAPID CITY	26	8	39	3	17	-19	.6	.5	.4	3.9	180	11.9	76	91	67	0	0	7	0
SIOUX FALLS	31	19	35	11	25	-9	.2	.2	.2	5.1	105	25.7	112	96	78	0	0	2	0
TN CHATTANOOGA	75	51	76	40	63	14	.2	-.8	.2	6.9	74	34.9	77	100	62	0	0	1	0
KNOXVILLE	74	47	76	36	61	11	.3	-.5	.3	5.7	76	31.0	76	99	64	0	0	1	0
MEMPHIS	76	61	82	51	68	16	.5	-.4	.4	8.0	100	41.1	92	93	61	0	0	3	0
NASHVILLE	76	57	79	47	66	17	.5	-.3	.5	5.7	71	27.6	66	92	60	0	0	3	0
TX ABILENE	66	45	82	39	56	2	.3	.3	.3	4.4	71	21.3	97	93	61	0	0	2	0
AMARILLO	52	31	65	26	41	-4	.9	.1	.1	8.2	238	21.9	119	95	56	0	0	5	0
AUSTIN	76	61	84	50	69	9	.7	.2	.2	11.1	136	28.0	98	97	69	0	0	5	1
BEAUMONT	79	67	84	60	73	12	1.3	.3	1.0	20.9	175	63.5	138	98	74	0	0	3	0
BROWNSVILLE	85	72	87	63	79	10	T	-.3	T	10.3	106	31.6	133	95	64	0	0	2	0
CORPUS CHRISTI	80	68	85	58	74	9	.2	-.2	.2	12.8	125	34.4	105	89	54	0	0	2	0
DEL RIO	76	64	84	53	70	10	T	-.2	T	4.3	78	17.2	105	67	22	0	0	2	0
EL PASO	67	39	76	26	53	1	0	-.1	0	3.3	143	8.1	111	67	22	0	0	1	0
FORT WORTH	69	51	80	37	60	4	1.7	1.3	1.7	9.0	133	28.7	106	95	66	0	0	2	0
GALVESTON	76	68	79	61	72	8	T	-.7	T	7.2	72	37.3	107	99	77	0	0	1	0
HOUSTON	78	67	85	56	73	12	1.1	-.4	.8	12.7	123	41.9	106	92	73	0	0	3	0
LUBBOCK	59	36	66	28	47	-2	T	-.1	T	8.4	195	22.7	132	92	53	0	0	3	0
MIDLAND	68	43	80	33	55	2	T	-.1	T	9.1	237	16.3	125	96	43	0	0	0	0
SAN ANGELO	70	48	82	35	59	4	.1	-.2	.1	8.8	156	21.7	126	95	55	0	0	0	0
SAN ANTONIO	76	63	83	51	70	10	.2	-.4	.1	10.5	131	37.9	142	96	68	0	0	4	0
VICTORIA	79	66	84	56	73	10	.3	-.2	.3	6.3	58	36.9	109	98	70	0	0	2	0
WACO	73	55	86	48	64	7	.6	-.1	.3	11.1	147	28.2	100	95	71	0	0	5	0
WICHITA FALLS	65	41	78	33	53	0	.5	.2	.2	5.8	84	30.0	120	90	60	0	0	3	0
UT BLANDING	44	23	54	13	34	-6	.2	.2	.4	4.9	173	13.7	137	89	56	0	0	6	2
CEDAR CITY	40	21	50	11	31	-9	.2	-.1	.1	2.5	117	9.0	98	90	54	0	0	6	0
SALT LAKE CITY	40	28	52	23	34	-7	1.2	.9	.7	5.2	194	14.6	109	87	57	0	0	6	1
VT BURLINGTON	39	27	49	16	33	-5	1.7	1.0	.8	9.9	131	31.3	104	95	70	0	0	6	1
VA NORFOLK	74	55	79	49	64	12	T	-.7	T	11.8	127	39.9	98	92	57	0	0	1	0
RICHMOND	72	52	80	45	62	12	.1	-.6	.1	13.5	150	45.1	115	92	52	0	0	1	0
ROANOKE	71	48	77	38	60	12	.2	-.4	.2	15.0	186	46.6	133	97	54	0	0	2	0
WA COLVILLE	30	15	35	8	22	-12	.2	-.3	.1	4.9	162	12.0	86	87	77	0	0	7	1
QUILLAYUTE	47	29	52	19	38	-6	1.2	-2.0	.9	25.6	112	54.7	67	91	51	0	0	4	1
SEATTLE-TACOMA	45	31	48	25	38	-7	.9	-.4	.9	9.8	118	21.2	72	82	45	0	0	4	0
SPOKANE	28	12	34	1	20	-15	.2	-.3	.2	4.7	170	9.9	75	86	67	0	0	7	0
YAKIMA	32	13	35	7	23	-16	.1	-.1	.1	2.0	156	4.3	69	90	58	0	0	7	2
WV BECKLEY	65	51	70	45	58	15	.2	-.4	.2	5.5	75	31.5	84	91	60	0	0	3	0
CHARLESTON	69	55	77	47	62	16	.8	.1	.4	9.2	129	34.7	92	80	54	0	0	6	0
HUNTINGTON	68	54	75	48	61	15	.9	.3	.6	10.1	146	39.7	110	87	60	0	0	3	1
PARKERSBURG	65	51	72	43	58	13	2.2	1.6	.6	11.1	176	31.4	84	99	69	0	0	7	2
WI GREEN BAY	37	29	42	24	33	-2	.7	.3	.7	10.5	168	35.8	139	93	66	0	0	4	1
LA CROSSE	36	29	41	24	33	-4	.6	.2	.5	8.4	131	25.5	89	90	70	0	0	5	0
MADISON	37	29	42	21	33	-4	.7	.3	.4	13.5	215	35.3	124	98	79	0	0	4	0
MILWAUKEE	43	36	46	34	39	1	1.1	.6	.5	13.7	223	32.3	116	98	75	0	0	7	0
WAUSAU	34	26	39	20	30	-3	.3	-.1	.2	11.4	160	31.6	107	91	66	0	0	7	4
WY CASPER	25	8	37	-2	17	-17	.8	.7	.5	2.6	127	10.0	94	92	72	0	0	7	0
CHEYENNE	29	14	44	5	22	-13	.5	.3	.2	3.3	159	18.7	147	90	69	0	0	7	5
LANDER	27	6	24	-8	12	-19	1.2	1.0	1.0	3.2	124	8.7	71	94	76	0	0	7	4
SHERIDAN	19	9	40	-2	18	-15	T	-.2	T	3.3	117	10.5	76	89	63	0	0	7	1
PR SAN JUAN	83	72	86	69	78	-3	2.6	1.3	1.2	20.2	136	41.6	89	95	70	0	0	0	7

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS



National Agricultural Summary

November 11 to 17, 1985

HIGHLIGHTS: Precipitation virtually halted fall harvesting across the eastern half of the Nation with the exception of the Delta States and a few States in the Southeast. Blistering cold temperatures swept across the Northern Rockies and Northern Plains, but ample snow cover provided protection for wheat. In California, temperatures dipped below freezing, but damage to vegetables and fruit was minimal. Soil moisture was surplus in the Corn Belt, adequate in most western States, and adequate to surplus elsewhere. Farmers worked 2 days or less through out most of the Great Plains and in the Corn Belt. Fieldwork averaged 3 days or more in the Southeast and greater than 4 days in the Delta States.

Winter wheat seeding slowly crept towards completion, with 93 percent(%) of the acreage planted, compared with 94% normally. Crop conditions were generally good in most areas. Corn harvest was 78% finished, 12 points behind normal. Wetness nearly halted harvest throughout the Corn Belt. Sorghum harvest nearly equaled the normal pace, but advanced only 3 points from the previous week. Soybeans were combined on 81% of the acreage, up 8 points from last week. Harvesting was 3 points ahead of 1984 but was 8 points below the average. Cotton was 60% picked. At this time last year 56% was harvested and normally 64% would be harvested. Pastures were mostly good. Livestock were mostly good, but supplemental feeding increased in snow-covered areas.

SMALL GRAINS: Winter wheat seeding slowly crept towards completion with 93% of the acreage seeded, compared with 91% last year and the 91% average. Seeding neared completion in the Corn Belt and in the Plains States. The wheat was mostly good. Emergence lagged 2 points behind normal. In Kansas seeding inched forward 1 point from last week. Eighty-five percent of the wheat was emerged, compared with 90% normally. Leaf rust was present in some south central wheat but the crop was mostly excellent to good. Wheat seeding trailed 30 points behind normal in Georgia and 13 points behind normal in Missouri. Excessive moisture has been the main cause of the late seeding. In Texas, seeding was 5 points below the average. Wet fields slowed the seedings progress in the eastern half of the State, but some seeding was accomplished in the Edwards Plateau and in the southern areas. The slow cotton harvest delayed seeding in some areas. Rust and disease began causing problems. In some regions, the lack of sunshine and leaching of fertilizer caused yellowing. Arkansas and California seedings were 4 and 6 points ahead of the norm, respectively.

CORN: In the 17 major producing States, corn was 78% harvested, lagging 12 points behind the normal pace. Harvest advanced only 5 points from last week with wetness severely curtailing harvest in the Corn Belt. South Dakota's harvesting advanced 12 points in 1 week but was still 29 points below average. Iowa trailed the normal harvesting progress by 18 points and Michigan producers were 20 points behind schedule. Harvesting was below par in all States except Colorado, Georgia, and Texas.

SOYBEANS: Soybeans were 81% harvested, compared with last year's 78% and 89% average. Harvest was

nearing completion in the Plain States and in the northern Corn Belt, except in Missouri where harvest was 62% finished. The Delta States lagged 12 points behind normal. All States were behind normal except Minnesota and South Dakota.

COTTON: Cotton harvest was 60% complete, 4 points ahead of 1984, but 4 points behind normal. Progress was 28 points slower than normal in New Mexico and 19 points below average in North Carolina. Freezing temperatures aided cotton harvest in Texas but harvest was still 10 points below the average.

OTHER CROPS: Sorghum harvest slowed but reached 89% completion, just slightly behind normal. In South Dakota producers harvested 11% of the acreage this week but was 10 points short of normal. Missouri sorghum harvest was 14 points slower than average. Oklahoma producers ran harvest to 90% completion, 10 points ahead of last week and 14 points above normal.

Moisture continued delaying peanut harvest in Texas. Fifty-five percent of the peanuts were dug, compared with an average of 72%. In some areas peanuts began rotting and sprouting.

Burley tobacco producers continued stripping and preparing their crop for markets. Markets were scheduled to open November 18 but have been delayed until November 25.

VEGETABLES: Harvest was active for most of Florida's vegetables. Tomatoes, sweet corn, cucumbers, squash, peppers, snap beans, and radishes accounted for most of the volume. Celery and cabbage harvest were getting underway. In Texas, land preparation was active for cauliflower and other winter vegetables in the Rio Grande Valley. Spinach harvest was getting underway in San Antonio - Winter Garden area. Vegetable and melon harvest were seasonally active in Arizona. Cauliflower, lettuce, and mixed vegetables were shipped from Yuma. In the Aguila and Salt River Valley areas, lettuce, melons, and mixed vegetables were harvested. Freezing temperatures did very little damage to California vegetables. An assortment of vegetables were harvested consisting mostly of broccoli, carrots, melons, and celery.

FRUIT AND NUTS: Freezing temperatures pushed into California, but damage was not extensive. Valencia orange harvest gained momentum and Navel orange harvest ended. Desert grapefruit harvest was light, with good quality fruit. Lemons were about 50% harvested in the desert area. Arizona citrus groves were in good condition. Lemon, grapefruit, tangerines, and Navel and sweet oranges were picked. Early oranges were harvested in Texas with good quality. Florida's citrus groves were good but irrigation increased in most areas. Orange harvest increased and grapefruit were actively harvested. Movement of fresh fancy zipper skin fruit increased. In Texas, pecan harvest progressed slowly because of humid weather. Cooler, drier weather is needed to aid harvest progress. Quality was disappointing in many areas.

PASTURES AND LIVESTOCK: Pastures were mostly good. Livestock were mostly good but supplemental feeding increased in snow-covered areas. Movement of livestock to crop stubble continued.

CROP PROGRESS

FOR WEEK ENDING NOV 17, 1985

	COTTON % HARVESTED		
	1985	1984	AVG.
ALA	91	81	87
ARIZ	60	65	55
ARK	91	65	87
CALIF	82	90	85
GA	83	83	90
LA	93	68	89
MISS	92	68	88
MO	89	69	89
N MEX	30	35	58
N C	64	74	83
OKLA	45	35	25
S C	92	87	92
TENN	83	65	85
TEX	36	37	46
14 STATES	60	56	64

THESE 14 STATES PRODUCED 100% OF THE 1984 COTTON CROP.

	CORN % HARVESTED		
	1985	1984	AVG.
COLO	86	87	85
GA	99	99	99
ILL	88	87	95
IND	81	75	90
IOWA	76	96	94
KANS	95	97	97
KY	85	74	90
MICH	65	80	85
MINN	81	94	90
MO	78	88	91
NEBR	75	85	85
N C	98	100	100
OHIO	70	60	85
PA	70	60	77
S DAK	62	93	91
TEX	100	100	100
WIS	55	78	71
17 STATES	78	86	90

THESE 17 STATES PRODUCED 93% OF THE 1984 CORN CROP.

	SORGHUM % HARVESTED		
	1985	1984	AVG.
ARK	98	94	98
KANS	90	90	85
MO	74	85	88
NEBR	96	94	92
OKLA	90	85	75
S DAK	86	96	96
TEX	90	91	96
7 STATES	89	91	90

THESE 7 STATES PRODUCED 83% OF THE 1984 SORGHUM CROP.

	SOYBEANS % HARVESTED		
	1985	1984	AVG.
ALA	65	72	83
ARK	69	53	74
GA	54	69	78
ILL	94	83	96
IND	93	80	98
IOWA	93	97	99
KANS	80	85	90
KY	60	44	80
LA	72	82	87
MICH	85	85	93
MINN	98	99	98
MISS	70	63	86
MO	62	70	85
NEBR	98	96	100
N C	29	44	48
OHIO	92	80	95
S C	34	39	39
S DAK	99	97	99
TENN	67	48	70
19 STATES	81	78	89

THESE 19 STATES PRODUCED 94% OF THE 1984 SOYBEAN CROP.

	WINTER WHEAT % PLANTED		
	1985	1984	AVG.
ARK	74	34	70
CALIF	50	40	44
COLO	99	99	99
GA	38	45	68
IDAHO	100	100	100
ILL	96	63	91
IND	97	82	99
KANS	96	97	97
MICH	100	100	100
MO	73	69	86
MONT	100	100	100
NEBR	100	100	100
OHIO	98	95	99
OKLA	96	95	95
OREG	96	93	97
S DAK	100	100	100
TEX	86	95	91
WASH	100	100	100
18 STATES	93	91	94

THESE 18 STATES PRODUCED 88% OF THE 1984 WINTER WHEAT CROP.

	WINTER WHEAT % EMERGED		
	1985	1984	AVG.
ARK	54	NA	NA
CALIF	35	20	28
COLO	97	95	94
GA	29	NA	NA
IDAHO	100	100	100
ILL	86	54	86
IND	93	73	93
KANS	85	85	90
MICH	90	NA	NA
MO	64	54	76
MONT	80	100	100
NEBR	100	100	100
OHIO	95	90	95
OKLA	85	60	75
OREG	89	85	91
S DAK	100	100	100
TEX	70	82	79
WASH	95	97	99
18 STATES	83	NA	NA
EXCL. STATES WITH NA	85	81	87

THESE 18 STATES PRODUCED 88% OF THE 1984 WINTER WHEAT CROP.

NA - NOT AVAILABLE

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 SRS State Statistical Offices in cooperation with the National Weather Service.

ALABAMA: Rainfall totals mostly less than 0.20 in. Temperatures averaged about 15° above normal.

Fieldwork 5.9 days. Soil moisture 10% short, 82% adequate, 8% surplus. Virtually all soybeans mature; harvested 65%, 72% 1984, 83% avg.; 6% poor, 46% fair, 42% good, 6% excellent. Cotton harvested 91%, 81% 1984, 87% avg. Winter wheat planted 58%, 57% 1984, 75% avg.; 22% fair, 74% good, 4% excellent. Pastures 2% poor, 42% fair, 48% good, 8% excellent. Livestock 30% fair, 62% good, 8% excellent. Primary activities: Harvesting cotton, soybeans, pecans, late fall vegetables; seeding small grains, winter cover crops; stocking catfish ponds; soil testing; routine care of livestock, poultry.

ARIZONA: Winter storm moved across State 12th, 13th. Snow level down to 3,000 - 4,000 ft. in north. Lower deserts rainfall 0.25 to 1.00 in. except mostly under 0.10 in. extreme southeast. Cold air behind storm lowered temperatures 15 to 30°. Mostly sunny skies returned latter part of week. Average temperatures varied from normal in extreme southeast to 12° below north.

Cotton 60% harvested, 65% 1984, 55% avg. Harvest slowed with arrival of major winter storm 12th. Stalk shredding, plowdown light to moderate. Seedbed preparation for wheat, barley crops progressed. Planting underway, 3% seeded statewide. Alfalfa good to excellent condition. Hay market slow, harvest activity light. Sheep grazing intensified west. Corn, sorghum harvests continued; sesame concluded. Lemons, grapefruit, tangerines, Navel, sweet oranges picked. Groves in good condition. Apple packing completed. Pecans harvested. Vegetable, melon movement seasonally active. Cauliflower, lettuce, mixed vegetables shipped from Yuma. Lettuce, cantaloups, honeydews packed at Parker-Poston. Aguila, Salt River Valley lettuce, melons, mixed vegetables harvesting. Lettuce, Rapini harvested Casa Grande-Eloy-Marana. Chipper potatoes, kabocha packed Willcox. Willcox lettuce deal completed.

ARKANSAS: Temperatures 6 to 15° above normal. Unseasonably warm through much of week. Rainfall widespread with heavy amounts west, moderate elsewhere. Temperature extremes 85°; 31°. Precipitation 0.21 to 6.06 in.

Days suitable for fieldwork 4.0. Soil moisture 2% short, 61% adequate, 37% surplus. Cotton 91% harvested, 65% 1984, 87% avg. Winter wheat 74% planted, 34% 1984, 70% avg.; 8% fair, 83% good, 9% excellent. Sorghum 98% harvested, 94% 1984, 98% avg. Soybeans 69% harvested, 53% 1984, 74% avg.

CALIFORNIA: Temperatures well below normal at almost all locations while precipitation fell across entire State. Storm system rolled through State beginning of week and in its wake produced temperature averages well below normal remainder of week. Temperature at Alturas plunged to -17° on morning of 12th.

Harvest activity slowed by rain, snow. Cotton 82% harvested, 90% 1984, 85% avg.; growers complying with plowdown regulations. Crop 17% fair, 66% good, 17% excellent. Corn, milo, blackeye harvests nearing completion. Sugarbeet harvest slowed by rain, snow. Winter wheat 50% planted, 40% 1984, 44% avg.; emerged 35%, 20% 1984, 28% avg. Crop condition 20% poor, 20% fair,

60% good. Cold weather drying rice stubble for burning. New alfalfa fields emerging. Wet weather slowed field operations. Coachella Valley date harvest continued, good quality and yields. Kiwifruit, persimmons also packed. Pruning, weed control as weather permitted. Desert grapefruit harvest light, good quality. Desert lemon harvest 50% complete. Navel orange harvest gained momentum. Valencia harvest complete. No extensive frost damage reported to citrus. Artichoke quality improving supplies moderate central coast. Broccoli continued fairly heavy supply Salinas moderate Santa Maria variable quality. Imperial Valley - Palo Verde Valley, cantaloup supplies shrinking rapidly variable quality; honeydew much lighter volume, good quality. Carrots Salinas fairly light varying quality. Cauliflower moderate Salinas fairly light Santa Maria quality variable. Celery heavy Salinas fairly heavy Santa Maria very light to fairly light respectively, variable weight and quality. Quality very good Huron. Completion near progress slowed by rain. Harvest started Palo Verde Valley good quality. Green peppers very light and light Salinas and Santa Maria. Quality and sizes variable. Harvesting sweetpotatoes, tomatoes continued San Joaquin Valley. Rain central, southern improved range pastures moisture conditions. More rain needed northern areas. Supplemental feeding increased northern districts. Calving, lambing continued. Sheep continued to be moved into alfalfa fields.

COLORADO: Colder, wetter statewide for most of week. Precipitation ranged from a trace to 1.50 in. with snow accumulations up to 2 ft. in mountains. Temperatures averaged 5° below normal western half of State to 15 to 20° below normal east.

Days suitable for fieldwork 2.8. Soil moisture 8% short, 79% adequate, 13% surplus. Winter wheat 1% fair, 34% good, 65% excellent; 99% seeded, 99% 1984, 99% avg.; 97% emerged, 95% 1984, 94% avg. Corn 25% good, 75% excellent; grain harvested 86%, 87% 1984, 85% avg. Sorghum grain harvested 95%, 92% 1984. Range feed and livestock good condition.

FLORIDA: Unseasonably warm, mostly dry week. Easterly winds generated scattered showers along Atlantic coast with only isolated showers remainder of Peninsula. Rainfall amounts ranged from none Panhandle to less than 0.10 in., elsewhere except average of 0.50 to 1.00 in. along middle, lower east coast. Temperatures averaged 8 to 10° above normal.

Soil moisture generally adequate, soils drying rapidly in central areas. Soybean harvest full swing. Cotton harvest active, declining seasonally. Land preparation, planting small grains active. Sugarcane harvest gaining momentum, crop prospects good. Hay harvest virtually complete. Pasture good to excellent south, fair to good elsewhere. Cool weather slowed growth of permanent pastures. Winter pasture plantings active some areas, near completion elsewhere. Cattle generally good, but only fair several Panhandle, north central Peninsula localities. Citrus groves good conditions. Irrigation most areas, very few showers, only little new tree growth. Orange harvest increasing, grapefruit harvest active. Movement of fresh, fancy zipper skin fruit increasing. K-early citrus harvest all but over

for season. Favorable weather returned to vegetable producing areas. Very little rainfall with most areas having no shower activity. Temperatures slightly above normal with daytime highs in mid-to-upper 80s and nighttime lows in high 60s to mid 70s. Fall harvest active for most vegetable crops. Leading in supplies tomatoes, sweet corn, cucumbers, squash, peppers, snap beans, radishes. Harvest getting underway celery, cabbage.

GEORGIA: Temperatures 12 to 150 above normal. Warmest daytime temperatures upper 70s north to low and mid 80s central, south. Coolest overnight lows mid 50s north to around 60° southeast. Only rainfall north, extreme east with most totals under 0.25 in.

Days suitable for fieldwork 5.6. Soil moisture 1% very short, 15% short, 80% adequate, 4% surplus. Main activities: Harvesting soybeans, cotton, sorghum, pecans; planting small grains. Corn 99% harvested, 99% 1984, 99% avg. Cotton 100% bolls open, 99% 1984, 100% avg.; 83% harvested, 83% 1984, 90% avg.; 28% fair, 62% good, 10% excellent. Grain sorghum 87% harvested, 4% poor, 38% fair, 57% good, 1% excellent. Soybeans 99% dropping leaves, 100% 1984, 100% avg.; 54% harvested, 69% 1983, 78% avg.; 6% poor, 47% fair, 46% good, 1% excellent. Wheat 38% planted, 45% 1984, 68% avg.; 29% emerged; 1% poor, 22% fair, 74% good, 3% excellent. Rye 77% planted, 72% 1984, 88% avg.; 1% poor, 22% fair, 72% good, 5% excellent. Other small grains 63% planted, 67% 1984, 84% avg. Pecans 47% harvested, 50% 1984, 62% avg.; 2% very poor, 8% poor, 48% fair, 42% good. Pastures 5% poor, 32% fair, 61% good, 2% excellent. Hay 9% poor, 36% fair, 55% good. Cattle 1% poor, 21% fair, 77% good, 1% excellent. Hogs 1% poor, 18% fair, 79% good, 2% excellent.

HAWAII: Crops continued to make fair progress under variable weather conditions. Skies mostly sunny with few passing showers. Winds from east beginning week's than became southwesterly toward weeks end. Harvesting of banana and papayas active, orchards in fair to good condition. Vegetable supplies light to moderate. Latest phase of volcanic eruption caused manor fallout to some anthurium farms surrounding area.

IDAHO: Week began with temperatures below normal, generally light precipitation. Low pressure system moving across Nevada 11th through 13th brought relatively high precipitation in form of snow to south. Temperatures remained below normal during rest of week with only light precipitation reported southeast.

All winter wheat seeded, emerged. Farming activities at standstill in many areas due to snow, cold. Most small grains going dormant. Corn for grain harvest continued southwest. In east, potato sorting continued with frost damage spuds being disposed of. Most livestock good condition and near farmstead. Feed, hay supplies adequate most areas with only 1 northern county short. Livestock maintenance and marketing activities common.

ILLINOIS: Temperatures 1 to 20 below normal northwest fifth of State. Southern four-fifths above normal 6 to 70. Precipitation heavy; 2.00 to 4.20 in. except for extreme northeast received 1.00 to 1.60 in.

Days suitable for fieldwork 0.5. Soil moisture 14% adequate, 86% surplus. Corn harvested for grain 88%, 87% 1984, 95% avg. Soybeans harvested 94%, 83% 1984, 96% avg. Winter wheat planted 96%, 63% 1984, 91% avg.; emerged 86%, 54% 1984, 86% avg.; 1% poor, 29% fair, 56% good, 14% excellent. Sorghum harvested for grain 80%, 64% 1984, 87% avg. Pasture 1% poor, 13% fair, 69% good, 17%

excellent; supplying 52% of livestock roughage requirements, 56% 1984, 38% avg.

INDIANA: Generally mild, moist week. Temperatures generally averaged 3 to 120 warmer than usual. Temperatures ranged from highs in 60s to low 70s to lows in 30s. Rainfall amounts totaled 1.00 to 2.00 in. in north, central counties. Southern counties generally exceeded 2.00 in. mark.

Fieldwork averaged 0.4 days. Topsoil moisture 6% adequate, 94% surplus. Subsoil moisture 4% short, 34% adequate, 62% surplus. Corn 81% harvested, 75% 1984, 90% avg. Corn moisture 20%, 22% 1984. Soybeans 93% combined, 80% 1984, 98% avg. Soybean moisture 14%, 16% 1984. Wheat 97% seeded, 82% 1984, 99% avg. Wheat 93% emerged, 73% 1984, 93% avg. Wheat stands 1% poor, 15% fair, 70% good, 14% excellent. Wheat condition 1% poor, 14% fair, 72% good, 13% excellent. Spring cropland 37% tilled, 27% 1984, 46% avg.

IOWA: Cold, cloudy week. Low 140 15th, high 620 17th. Seasonal precipitation west, north central. Heavy southeast one-third State. Early week snow cover north, west central melted.

Days suitable for fieldwork 1.6. Topsoil moisture 1% short, 37% adequate, 62% surplus. Subsoil moisture 4% short, 70% adequate, 26% surplus. Corn harvested 76%, 96% 1984, 94% avg. Soybeans harvested 93%, 97% 1984, 99% avg. Fall tillage completed 20%. Fertilizer application completed 15%. Livestock good condition.

KANSAS: Precipitation averaged 0.10 in. north central, 4.50 in. southeast, 2.88 in. east central, 0.25 to 0.50 in. west, 0.75 to 1.20 in. elsewhere. Snow 1 to 3 in. northwest and north central. Temperatures averaged 330 northwest, 480 southeast, 37 to 420 elsewhere. Temperatures 20 above normal southeast, 4 to 50 below normal west and north central, 1 to 30 below normal elsewhere.

Days suitable for fieldwork 2.5. Topsoil moisture 2% short, 56% adequate, 42% surplus. Wheat 96% seeded, 97% 1984, 97% avg. Wheat 85% emerged, 85% 1984, 90% avg. Leaf rust present some south central counties. Wheat 2% very poor, 1% poor, 9% fair, 28% good, 60% excellent. Wheat pastured 10%, 5% 1984, 5% avg. Sorghum 90% harvested, 90% 1984, 85% avg. Soybeans 80% harvested, 85% 1984, 90% avg. Corn 95% harvested, 97% 1984, 95% avg. Pasture good to excellent. Livestock grazing corn, sorghum stubble.

KENTUCKY: Series of frontal systems. Temperatures averaged well above normal. Mean temperatures upper 50s to lower 60s. Frontal systems brought rainfall totals of 1.00 to 4.00 in. west and central; less than 1.00 in. east. Four inch soil temperatures averaged upper 50s to lower 60s.

Days suitable for fieldwork 2.0. Soil moisture 42% adequate, 58% surplus. Corn 85% harvested, 74% 1984, 90% avg. Soybeans 60% harvested, 44% 1984, 80% avg. Sorghum grain 75% harvested. Burley tobacco markets opening changed to November 25th. Burley stripping advancing rapidly; 55% compared, 30% 1984, 40% avg.; quality good. Wheat seeding 78% complete, 55% 1984, 85% avg. Early wheat, pastures good to excellent.

LOUISIANA: Temperatures averaged 2 to 50 above normal. Temperature extremes 490; 870. Rain totals averaged none to 1.30 in.

Days suitable for fieldwork 5.7. Soil moisture 4% short, 55% adequate, 41% surplus. Cotton 93% harvested, 68% 1984, 89% avg. Soybeans 46% very poor, 49% poor, 5% fair. Soybeans 72% harvested, 82% 1984, 87% avg. Pecans fair to good; 52% harvested, 41% 1984, 40% avg. Sweetpotatoes 81%

harvested, 92% 1984, 96% avg. Vegetables poor to fair. Sugarcane fair. Sugarcane 97% planted, 100% 1984, 100% avg.; 38% harvested, 37% 1984, 49% avg. Winter wheat 25% planted, 40% 1984, 63% avg.; 18% emerged, 28% 1984, 44% avg. Hay final cutting 99% completed, 100% 1984, 100% avg. Pasture fair; livestock fair to good.

MARYLAND & DELAWARE: Maryland: Temperatures 12 to 14° above normal; highs in mid to upper 70s, lows mostly in mid 30s to near 40°. Precipitation averaged 0.22 in., ranging from none on shore to 1.52 in. Glenn Dale.

Fieldwork 4.2 days suitable. Topsoil, subsoil moisture adequate. Corn for grain 93% harvested, 100% 1984, 99% avg. Soybeans 60% harvested, 75% 1984, 80% avg. Small grains good, excellent growth. Aphids appearing in some fields due to warm temperatures, unusually rapid plant growth. Rust also appearing due to warm, wet weather. Wheat good; 92% seeded, 95% 1984, 98% avg. Rye generally good; 95% seeded, 100% 1984, 100% avg. Oats good; 93% seeded, 100% 1984, 100% avg.

Delaware: Temperatures 10 to 13° above normal; highs mid 70s, lows mid to upper 30s. Precipitation averaged 0.01 in. with rain only in extreme north.

Fieldwork 6.0 days suitable. Topsoil, subsoil moisture adequate. Corn for grain 97% harvested, 100% 1984, 100% avg. Soybeans 60% harvested, 80% 1984, 80% avg. Small grains good. Barley 96% seeded, 100% 1984, 100% avg. Wheat 95% seeded, 90% 1984, 92% avg. Rye 96% seeded, 90% 1984, 90% avg.

MICHIGAN: Average temperatures ranged from 20 above normal to 30 below normal. Precipitation moderate across State.

Days suitable for fieldwork 1.4. Soil moisture supplies 7% adequate, 93% surplus. Wet weather and deer season hamper fieldwork. Corn 65% harvested, 80% 1984, 85% avg. Soybeans 85% harvested, 85% 1984, 93% avg. Winter wheat 100% planted, 100% 1984, 100% avg.; 90% emerged. Winter wheat 5% poor, 15% fair, 50% good, 30% excellent. Fruit, vegetable farmers repairing and storing their equipment for winter. Grading, packing of fruit and vegetables continued.

MINNESOTA: Temperatures averaged 2 to 6° below normal. Temperature extremes 10; 47°. Precipitation averaged 0.10 in. below normal to 0.14 in. above normal. Greatest weekly total 0.58 in. Snowfall averaged 1 in. or less for northwest, southeast; 2 to 6 in. elsewhere.

Days suitable for fieldwork 4.5. Topsoil moisture 1% short, 66% adequate, 33% surplus. Field corn 81% harvested, 94% 1984, 90% avg.; 22% moisture as harvested, 21% 1984, 20% avg. Soybeans 98% harvested, 99% 1984, 98% avg. Sunflowers 88% harvested, 92% 1984, 92% avg.

MISSISSIPPI: Greatest 24-hour rainfall 2.50 in. Temperatures 10 to 15° above normal. Extremes 47°; 85°.

Fieldwork 5.0 days suitable, 4.2 1984, 4.1 avg. Soil moisture 76% adequate, 18% surplus, 6% excessive. Crop harvest made good progress. Soybeans 70% harvested, 63% 1984, 86% avg.; 3% very poor, 11% poor, 29% fair, 57% good. Cotton 92% harvested, 68% 1984, 88% avg. Sweetpotatoes 95% harvested. Pecans 40% harvested, 48% 1984, 46% avg. Winter wheat 54% planted, 47% 1984, 67% avg. Pasture 44% fair, 49% good, 7% excellent.

MISSOURI: Temperatures ranged from below normal north to 14° above normal south. Rainfall averaged about 2.00 in. northwest half State, around 1.50 in. southeast half. Very heavy band of rain from Joplin to north of St. Louis.

Days suitable for fieldwork 0.7. Topsoil moisture 11% adequate, 89% surplus. Corn harvested 78%, 88% 1984, 91% avg. Soybeans harvested 62%, 70% 1984, 85% avg. Grain sorghum harvested 74%, 85% 1984, 88% avg. Cotton harvested 89%, 69% 1984, 89% avg. Winter wheat seedings 73%, 69% 1984, 86% avg; emerged 64%, 54% 1984, 76% avg. Pasture 1% poor, 24% fair, 63% good, 12% excellent. Fall tillage for spring crops 40% completed.

MONTANA: Very cold week as temperatures averaged from 10 to 18° below normal. Very cold first of week with sub-zero temperatures covering most of State. Some moderation by weekend. Very little if any precipitation, generally less than 0.10 in.

Topsoil moisture supplies 9% short, 91% adequate. Subsoil moisture supplies 34% short, 66% adequate. Winter wheat 87% fair, 13% good. Winter wheat seeded 100%, 100% 1984, 100% avg. Winter wheat emerged 80%, 100% 1984, 100% avg. Wind damage 6% none, 94% light. Condition of winter ranges, pastures 50% poor, 31% fair, 19% good. About 60% of livestock receiving supplemental feed. Grain, concentrate for winter feed supplies 36% short, 64% adequate. Hay, roughage for winter feed supplies 75% short, 25% adequate.

NEBRASKA: Precipitation averaged between 0.25 to 0.50 in. across State in form of rain, freezing rain, snow. Accumulations reported northern half, southwest with heaviest accumulations north central. Temperatures 10° below normal west, 50 below normal south and east.

Days suitable for fieldwork 2.0. Topsoil moisture 58% adequate, 42% surplus. Subsoil moisture 6% short, 86% adequate, 8% surplus. Winter wheat 23% fair, 65% good, 12% excellent. Recent moisture good growth and development. Wheat planted 100%, 100% 1984, 100% avg. Wheat emerged 100%, 100% 1984, 100% avg. Corn harvested 75%, 85% 1984, 85% avg. Moisture percentages still above safe storage level. Dryer capacity bottleneck. Soybean harvest 98%, 96% 1984, 100% avg. Sorghum harvest 96%, 94% 1984, 92% avg. Pasture, range feed supplies mostly adequate to short. Feeding hay in areas under snow cover. Cattle still moving to stubble. Yearlings, some cows moving to market.

NEVADA: Cold, winter storm dumped heavy snow north and central early in period. Heaviest snowfall in western sections and high elevation Sierras. Storm inversion system resulted several northern valleys blanketed in dense fog. Southern skies mostly fair. Temperature took a downward slide after storm hit. Sub-zero minimums common throughout northern and central areas. Extremes 80; 70°.

Grading, marketing potatoes continued north, although sales sluggish. Livestock feeding made extremely difficult by inclement weather, snow.

NEW ENGLAND: Above average precipitation 1.00 to 2.00 in. northern Maine, 2.00 to 3.00 in. elsewhere. Northern Maine temperatures averaged from mid to upper 20s, slightly below normal. Central region temperatures near normal; mid to upper 30s. Coastal south temperatures mid to upper 40s, slightly above normal.

General fall maintenance, hauling manure, winterizing barns and machinery, moving apples and potatoes from storage.

NEW JERSEY: Temperatures near normal north, above normal south and coastal, averaging 43° north, 52° south, 57° coastal. Extremes 25°; 76°. Precipitation much above normal, averaging 3.22 in. north, 1.68 in. south, 1.23 in. coastal.

Heaviest 24-hour total 2.80 in. 16th, 17th.
Heaviest 24-hour snowfall 2 in.

Soil moisture adequate for germination, growth of cover crops and grains. Some hardy vegetables continued to be harvested. Soybean, corn for grain combining continued as weather conditions permitted. Cider making active. Apples, potatoes sweetpotatoes, squash moving from storage.

NEW MEXICO: Average temperatures near seasonal norms. Temperatures 20 northern mountains to 770 southeastern Plains. Rain, snow mostly over north. Precipitation none to 0.66 in. northern mountains.

Days suitable for fieldwork 5.9. Soil moisture 18% short, 73% adequate, 9% surplus. Freeze damage 13% none, 62% light, 25% moderate. Alfalfa 67% fair, 33% good. Cotton 33% fair, 67% good; 30% harvested, 35% 1984, 58% avg. Corn 33% fair, 50% good, 17% excellent. Barley 17% fair, 83% good. Irrigated wheat 14% fair, 86% good. Dryland wheat 25% fair, 75% good. Irrigated grain sorghum 38% fair, 49% good, 13% excellent. Dryland grain sorghum 25% poor, 25% fair, 25% good, 25% excellent. Pecans 33% fair, 67% good. Apples 100% good. Chile 100% good. Cattle 10% fair, 90% good. Sheep 11% fair, 89% good. Range 40% fair, 50% good, 10% excellent.

NEW YORK: Temperatures averaged near to somewhat above normal. Precipitation well above normal. Week characterized by wet, cloudy conditions. Cold air mass moved in from southern Canada late in week and led to wintery weather 16th. Snow, sleet, freezing rain across interior eastern while western and coastal sections rain.

Rain and wet fields continued to slow grain corn harvest. Other activities for week included tending livestock, routine farm chores.

NORTH CAROLINA: Temperatures were 10 to 150 above normal across State. Rainfall ranged from none to 0.78 in. across State.

Days suitable for fieldwork 4.3. Soil moisture 1% very short, 7% short, 64% adequate, 28% surplus. Corn harvested for grain 98%, 100% 1984, 100% avg. Cotton harvested 64%, 74% 1984, 83% avg. Soybeans harvested 29%, 44% 1984, 48% avg. Grain sorghum harvested 87%, 83% 1984, 89% avg. Sweetpotatoes harvested 96%, 99% 1984, 99% avg. Pasture 4% poor, 28% fair, 67% good, 1% excellent. Wheat planted 58%, 73% 1984, 75% avg. Farm feed supplies: Hay and roughage 3% short, 92% adequate, 5% surplus. Feed grain 6% short, 80% adequate, 14% surplus. Major farm activities: Grading burley tobacco; harvesting corn, sorghum, fall vegetables, soybeans and cotton; digging sweetpotatoes; finishing digging and threshing peanuts; fall plowing; land preparation for cover crops; fall seeding for small grains; cutting firewood, conservation work; mowing, general farm maintenance, and machinery repair.

NORTH DAKOTA: Cold, dry over most of State. Temperatures averaged 5 to 120 below normal. High 490 south central with low of -50 north central. Precipitation below normal. North received light snow early week. Northwest received 0.18 in. of water equivalent from storm. Southeast corner of State received snow at week's end amounting to 0.33 in. of water equivalent.

Corn, sunflower still not harvested in some northern and central areas. Remaining corn not ripe when hit by frost; farmers uncertain what to do with it (abandon, feed, silage). Some progress made on sunflower harvest, frost damage common in northern parts of State.

OHIO: Temperatures above normal; highs averaged from low 50s to low 60s, 7 to 90 above normal;

lows averaged 40s most sections, 9 to 140 above normal. Precipitation exceeded 2.00 in. most of State; greatest total 3.99 in. east central. Soil temperatures at 4.00 in. under bare ground averaged upper 40s north and low 50s south.

Days suitable for fieldwork less than 1.0. Topsoil moisture 3% adequate, 97% surplus. Corn harvested 70%, 60% 1984, 85% avg.; stalk rot and mold reported. Soybeans harvested 92%, 80% 1984, 95% avg. Concern of potential lodging for both crops. Winter wheat 12% fair, 70% good, 18% excellent; planting 98%, 95% 1984, 99% avg.; emerged 95%, 90% 1984, 95% avg.; rapid growth prior to dormancy may be problem if snow cover inadequate. Heaving may result if quick freeze hits loosened roots. Pasture fair to good.

OKLAHOMA: Average temperatures ranged 70 below normal west central to 80 above normal southeast. Precipitation total ranged 0.43 in. Panhandle to 3.53 in. northeast.

Days suitable for fieldwork 3.0. Topsoil moisture 43% adequate, 55% surplus. Subsoil moisture 100% adequate. Wheat 8% fair, 82% good, 10% excellent. Wheat 96% planted, 95% 1984, 95% avg. Wheat 85% emerged, 60% 1984, 75% avg. Approximately 18% wheat grazed. Sorghum 90% harvested, 85% 1984, 75% avg. Cotton 45% harvested, 35% 1984, 25% avg. Widespread rains halted fieldwork. Mild temperatures, sufficient soil moisture promoted wheat, forage growth.

OREGON: Cold, wet statewide. Temperatures west averaged 90 colder than normal. East of Cascades winter came early; temperatures averaged 150 below normal. Rainfall averaged 2.00 in. along northern coast. Precipitation averaged 0.50 in. or slightly more for remainder of State.

Soil moisture 92% adequate, 8% surplus. Winter wheat 96% planted, 93% 1984, 97% avg.; 89% emerged, 85% 1984, 91% avg. Malheur County grain corn harvest began; other crops harvests completed; some fieldwork for next season. Early snow before fall crops fully emerged in most eastern areas. Some late fall grain seeding in west. Vegetable season ended with freezes, except some root crops harvested. Livestock mostly good. Range, pasture fair to good. Hay feeding started.

PENNSYLVANIA: Days suitable for fieldwork 2.0. Moisture mostly surplus to adequate. Activities: Harvesting corn for grain, soybeans; baling corn fodder; grading potatoes; spreading manure; machinery repair. Corn for grain 70% harvested, 60% 1984, 77% avg. Soybeans 66% harvested, 61% 1984, 75% avg. Feed from pastures mostly average to below average.

PUERTO RICO: Island averaged rainfall 2.76 in., 1.34 in. above normal. Highest weekly total 9.88 in. Highest 24-hour total 3.28 in. Temperature averaged about 77 to 780 on coasts, and 70 to 710 interior divisions. Mean station temperature ranged from 63 to 800 to 63.40. Extremes 550; 900. Total rainfall 2.65 in., plus 1.32 in.

SOUTH CAROLINA: Unseasonably warm humid weather. Temperatures averaged 10 to 140 above normal. Rainfall moderate.

Days available for fieldwork 3.4. Soil moisture 5% short, 91% adequate, 4% surplus. Soybeans 10% poor, 64% fair, 20% good, 6% excellent. Soybean leaves shedding 100%; 95% mature, 90% 1984, 85% avg.; 34% harvested, 39% 1984, 39% avg. Cotton 4% poor, 56% fair, 34% good, 6% excellent; 92% harvested, 87% 1984, 92% avg. Tobacco stalks destroyed 100%. Hay fair to good. Winter grazing, barley, oats, rye, wheat good.

SOUTH DAKOTA: Average temperatures 5 to 100 below normal east, 10 to 180 below normal west. Extremes -50; 420. Melted precipitation 0.25 to 0.75 in. Snowstorm 15th dropped 3 to 6 in. south central, east. Nearly 12 in. fell near Nebraska border in south central.

Days suitable for fieldwork 2.3. Topsoil moisture adequate to surplus east, short west; 2% critically short, 23% short, 58% adequate, 17% surplus. Corn 2% very poor, 6% poor, 17% fair, 59% good, 16% excellent. Corn 62% harvested, 93% 1984, 91% avg. Winter wheat 21% fair, 72% good, 7% excellent. Winter wheat 100% seeded, 100% 1984, 100% avg. Winter wheat 100% emerged, 100% 1984, 100% avg. Sorghum 2% very poor, 15% poor, 41% fair, 34% good, 8% excellent. Sorghum 86% harvested, 96% 1984, 96% avg. Soybeans 3% very poor, 5% poor, 14% fair, 67% good, 11% excellent. Soybeans 99% harvested, 97% 1984, 99% avg. Supplemental feeding of livestock beginning.

TENNESSEE: Rainfall averaged 1.50 in. west, 0.33 in. east. Temperatures averaged 150 above normal.

Farmers averaged 4.7 days suitable for fieldwork. Soil moisture 11% short, 75% adequate, 14% surplus. Harvest on schedule. Corn 90% harvested, 75% 1984, 85% avg. Cotton 83% harvested, 65% 1984, 85% avg. Burley tobacco 70% stripped, 58% 1984, 65% avg. Soybeans 67% harvested, 48% 1984, 70% avg. Wheat 75% sown, 38% 1984, 75% avg. Pasture good to excellent. Livestock in good condition.

TEXAS: Frontal system lingered much week, bringing rain most sections. Temperatures quite warm east, south latter half week. Surge Canadian air spread into west 14th, 15th bringing freezing temperatures most locations. Arrival season's first freeze behind schedule. Precipitation above normal Upper Coast, east; below normal lower Valley, south, Trans-Pecos; close to normal elsewhere. Temperatures below normal Plains, above normal rest of State.

Crops: Cotton 91% open bolls, 87% 1984, 94% avg.; 36% harvested, 37% 1984, 46% avg. Cotton 2% poor, 51% fair, 43% good, 4% excellent. Harvest progressed slowly, damp conditions prohibited drying. Freezing temperatures northern High Plains, portions southern High Plains, Low Plains November 15, ended most cotton growth. Freezing temperatures aid harvest as cotton dries. Some green bolls present, drying conditions needed. Sorghum 100% mature, 100% 1984, 100% avg.; 90% harvested, 91% 1984, 96% avg. Final harvest delayed under damp, humid conditions. Limited progress early week. Open weather needed. Wheat 86% planted, 95% 1984, 91% avg.; 70% emerged, 82% 1984, 79% avg. Small grain seeding continued, field conditions allowed. High, Low Plains seeding behind cotton delayed until cotton harvested. Eastern half State wet fields slowed progress, some seeding Edwards Plateau, south. Humid conditions favored development disease, rust, producers reporting some problems. Some yellowing from lack sunshine, leaching fertilizer. Forage growth excellent. Peanuts 55% harvested, 65% 1984, 72% avg. Digging continued drier areas where possible. Drying conditions not very good. Some rotting, sprouting. Soybeans 39% harvested, 78% 1984, 74% avg. Harvest progressed slowly. Heavy rain Upper Coast delayed activity, drying slow Plains. Some shattering scattered fields. **Other Field Crops:** Sugarbeets 49% harvested, 80% 1984, 71% avg. Some progress digging. Sugar content increase. Sunflowers 78% harvested, 73% 1984, 83% avg. Oats 77% planted, 94% 1984, 89% avg. Sugarcane harvest continued Rio Grande Valley. Little or no delays.

Commercial Vegetables: Rio Grande Valley dry conditions prevailed, planting onions, cabbage

continued. Land preparation active cauliflower, other winter vegetables. Some harvest green peppers, carrots, cabbage completed. Harvest some early oranges continued; crop small, quality good. San Antonio - Winter Garden, harvest cabbage continued. First bunch spinach shipped Crystal City, volume should increase this week. Some fall watermelons harvested. East sweetpotato harvest about complete, few fields remaining. Wet fields delayed final harvest. Turnips plentiful. High Plains cabbage, carrot harvest continued remaining fields, conditions allowed. Some pumpkins harvested. Trans-Pecos onions planted. Some light movement bell peppers, red chilies. Pecans 25% harvested, 40% 1984, 36% avg. Pecan harvest progressed slowly, humid conditions. Many areas quality disappointing. Cooler, drier conditions needed to aid progress.

Range and Livestock: With continued rainfall, mostly warm temperatures fall weeds, grasses growth. Wheat, oats excellent grazing. Most livestock excellent condition without major supplemental feeding, going into winter good shape. Stockers continued moved onto wheat, oat pastures across State. Hay supplies replenished.

UTAH: Light precipitation Uintah Basin; elsewhere amounts moderate to heavy -- much of it as snow in north, particularly at higher elevations. Maximum temperatures averaged 100 below normal except 40 below normal Uintah Basin. Minimums near normal except 60 above normal Uintah Basin. Finishing winter preparations, gathering stray livestock only activities other than routine farm chores. Winter arrived.

VIRGINIA: Unseasonably warm, relatively dry until midweek. Light rain, drizzle midweek. Precipitation averaged less than 0.10 in. Temperatures averaged 110 above normal.

Days suitable for fieldwork averaged 3.5. Topsoil moisture 53% adequate, 47% surplus. Planting, harvest activities limited mostly to high ground; low areas too wet. Grain corn 87% harvested, 87% 1984, 92% avg. Soybean 44% harvested, 64% 1984, 65% avg. Soybean quality, yields reduced by wet weather. Wheat 72% seeded, 79% 1984, 82% avg. Grading, curing burley, dark fire-cured tobacco. Burley markets now set to open November 25. Livestock and pastures mostly excellent. Other activities --- flood cleanup, fence repair, planting cover crops, soil samples, hunting.

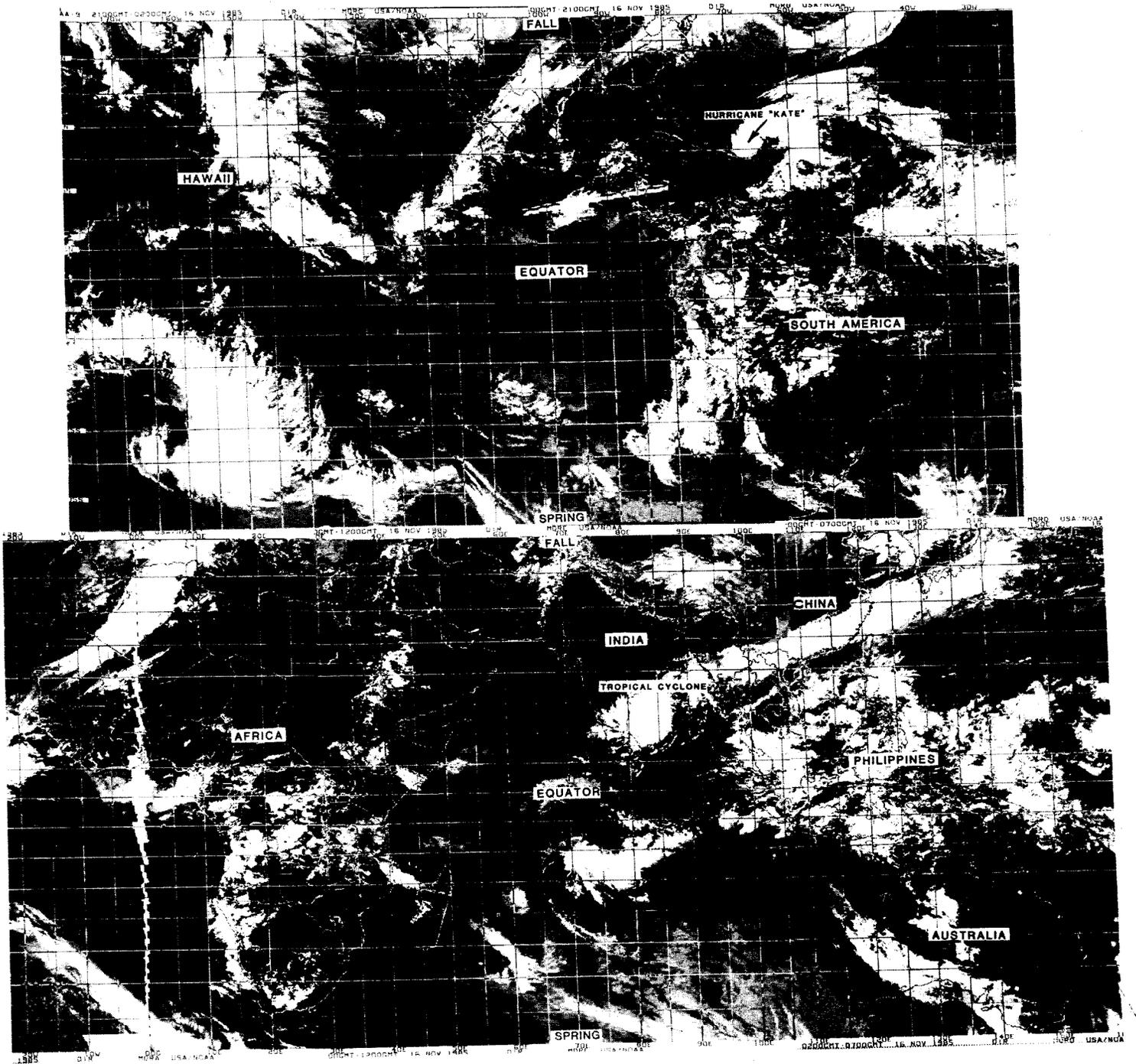
WASHINGTON: Precipitation across State 10th. Cool dry air beginning week. Moist air by 14th.

Days suitable for fieldwork 2.9. Soil moisture 20% short, 80% adequate. Hay supplies 27% short, 73% adequate. Range and pasture 60% short, 40% adequate. Winter wheat 100% seeded, 100% 1984, 100% avg.; 95% emerged, 97% 1984, 99% avg. Potatoes 100% harvested, 97% 1984. Grain corn, carrot harvest nearing completion.

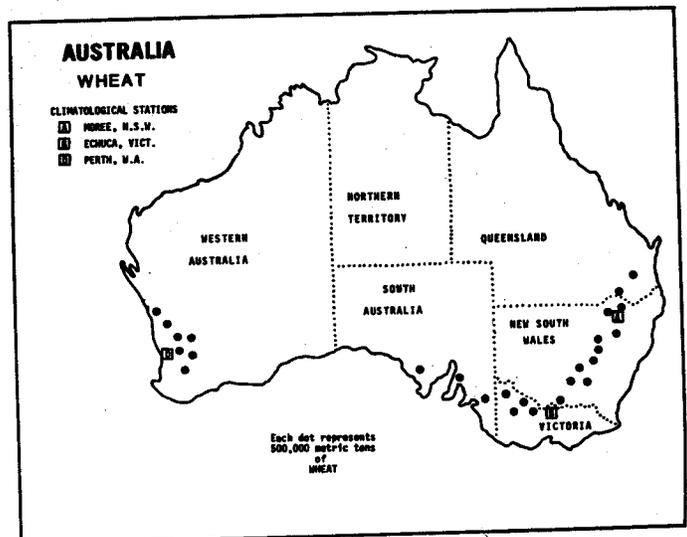
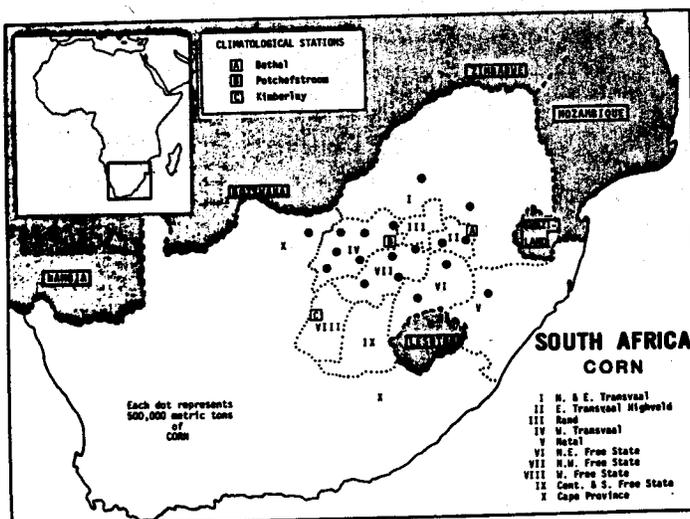
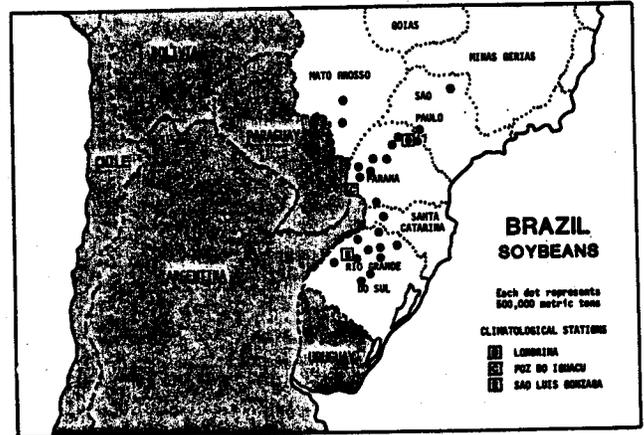
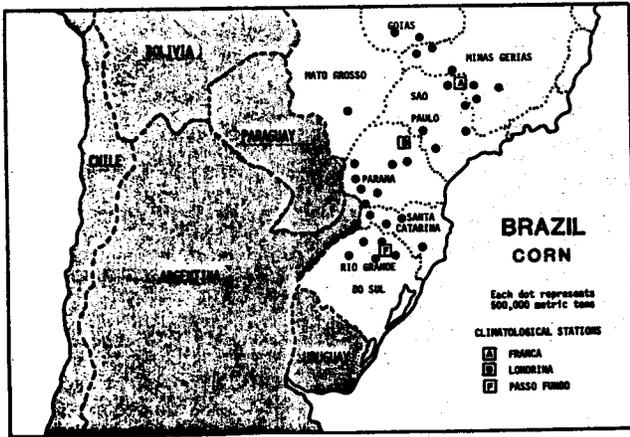
WEST VIRGINIA: Temperatures averaged 10 to 160 above normal. Low 260 Lewisburg; high 760 Creston. Average temperatures 510. Precipitation averaged 0.10 to 0.60 in. above normal across much of State except northwest division precipitation 2.20 in. above normal, southern division precipitation 0.50 in. below normal. Heavy rainfall around first of week, near last of week produced some minor flooding across northwestern division. Average precipitation for State 0.93 in.

Days worked averaged 2.7. Soil moisture surplus to adequate. Corn 88% harvested at 97% of normal. Feed supplies adequate.

GLOBAL WEATHER SATELLITE IMAGE

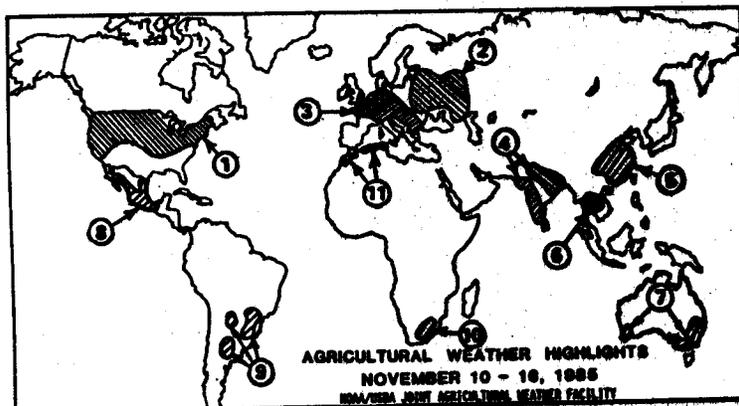


MAJOR CROP AREAS IN THE SOUTHERN HEMISPHERE



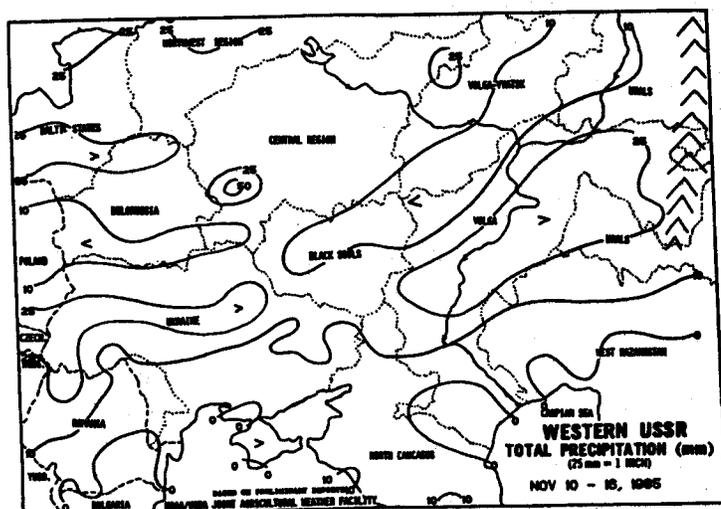
International Weather and Crop Summary

November 10-16, 1985

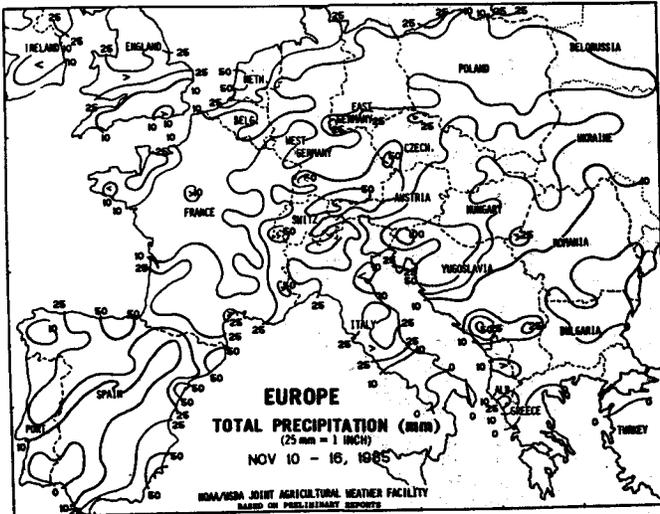


HIGHLIGHTS:

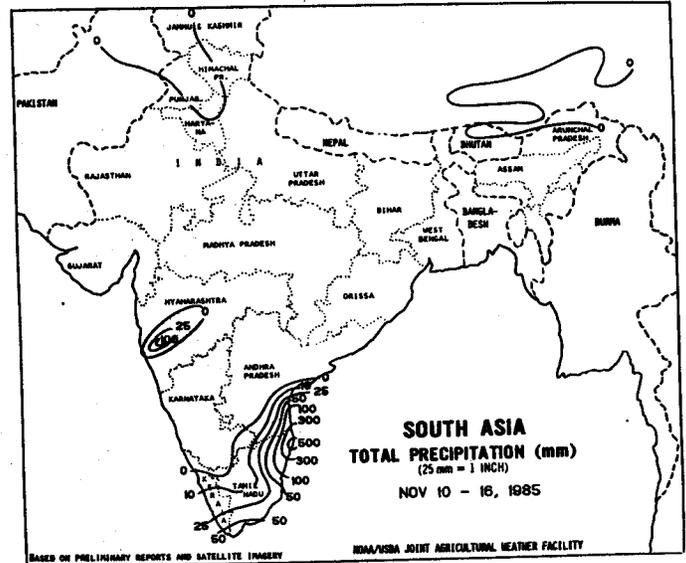
1. **UNITED STATES** ... Precipitation halts most fieldwork in the East. A severe winter storm brings bitterly cold weather to the northern Rockies and Plains, but adequate snow cover protects most winter wheat. Freezing temperatures in California does minimal damage to fruits and vegetables.
2. **WESTERN USSR** ... Winter grains enter dormancy in most areas except the extreme south where growth continued.
3. **EUROPE** ... Wintry weather halts crop growth in most areas. The first significant autumn rains cover winter grain areas in Spain, increasing planting moisture.
4. **SOUTH ASIA** ... Dry weather in the north favors maturing rice. Excessive rain damages rice in the south.
5. **EASTERN ASIA** ... Cool weather hardens winter wheat in the North China Plain.
6. **SOUTHEAST ASIA** ... Heavy rain is unfavorable for maturing rice in Thailand.
7. **AUSTRALIA** ... Light to moderate showers cover the eastern wheat belt, but warm temperatures help to dry maturing grain.
8. **MEXICO** ... Mild, dry weather favors crop harvesting.
9. **SOUTH AMERICA** ... Sharply contrasting weather hampers agricultural activities as hot, dry weather parches the soybean area of southern Brazil while heavy rain soaks Argentina's major summer crop area.
10. **SOUTH AFRICA** ... Drying topsoils and hot weather may stress emerging western corn. Showers favor eastern corn.
11. **NORTHWESTERN AFRICA** ... Topsoil moisture is not yet adequate for winter grain planting in many areas.



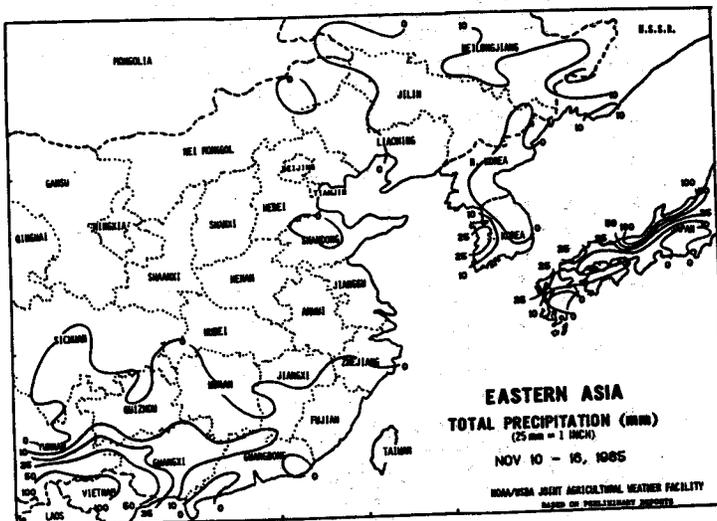
WESTERN USSR...Widespread rain and snow showers covered the northern two-thirds of the region, increasing moisture supplies. Heaviest amounts of precipitation, 25 to 45mm, fell over parts of the Baltic States, northern Belorussia, the northern Ukraine, and the Volga Valley. Early in the week, unseasonably warm weather gave way to cold arctic air which moved southward covering the region by week's end. Although temperatures over the region were not low enough to harm winter grains, the colder air likely caused winter grains to enter dormancy over the northern two-thirds of the region. Winter grains began hardening in the southern Ukraine and North Caucasus.



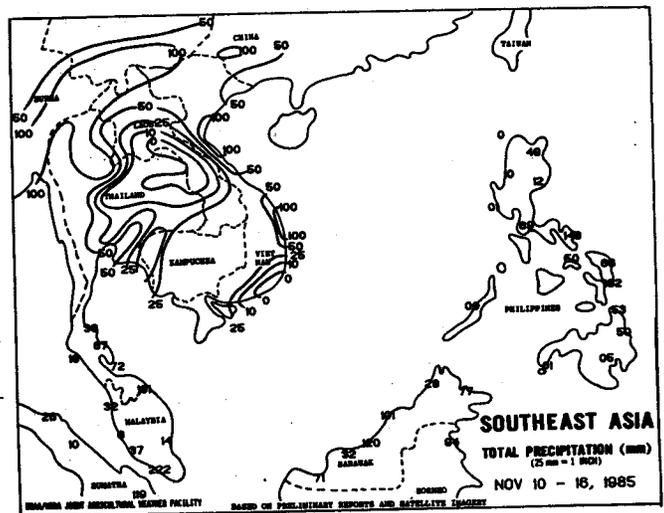
EUROPE... Wintry weather covered the region by week's end. Cold air from the Arctic Sea and northern Siberia moved southwestward across Scandinavia, through northeastern Europe, and into western and southern Europe. Temperatures were not low enough to harm winter grains, but the cold weather halted crop growth in many areas, except for the extreme south where growth continued. The cold weather is prompting concern in eastern England, northern France, East Germany, northern Italy, and parts of eastern Europe, where warm November weather was needed for winter grain establishment. The prospects for good crop establishment in these areas is diminishing as December approaches. The first substantial rains of autumn covered southern Spain, increasing moisture for winter grains.



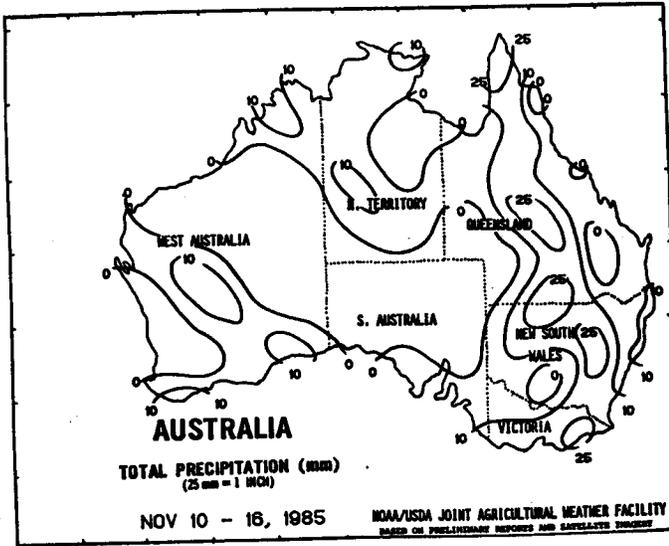
SOUTH ASIA... Mostly dry weather covered the wheat belt. Light showers (1-7mm) benefited early wheat growth in Punjab, India and parts of northern Pakistan. Dry weather in the east favored maturing winter rice. A quasi-stationary tropical low pressure area produced extremely heavy rain (over 200mm) and flooding along the coasts of Andhra Pradesh and Tamil Nadu. As much as 500mm of rain damaged winter rice in Madras and surrounding areas.



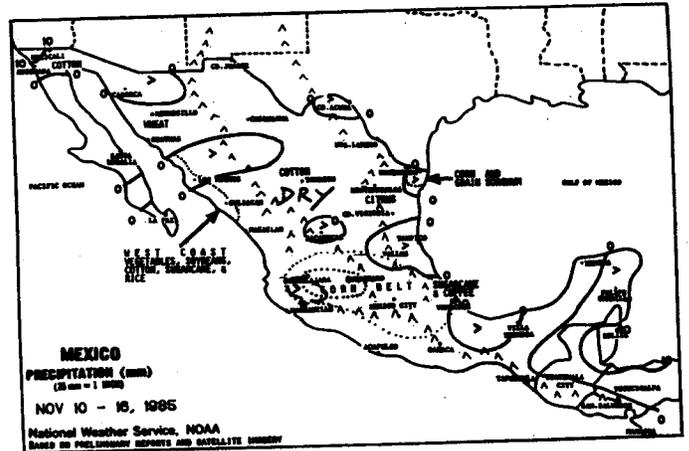
EASTERN ASIA... Dry weather covered most of the North China Plain. Temperatures averaged slightly below normal and subfreezing temperatures have occurred during the last 2 weeks. The cooler weather is hardening winter wheat, but frost may have damaged poorly established, late-planted wheat in Henan. Winter wheat normally enters dormancy in late November in the northern North China Plain and early December in the south. Light to moderate rain fell in the south but did not significantly slow rice harvesting.



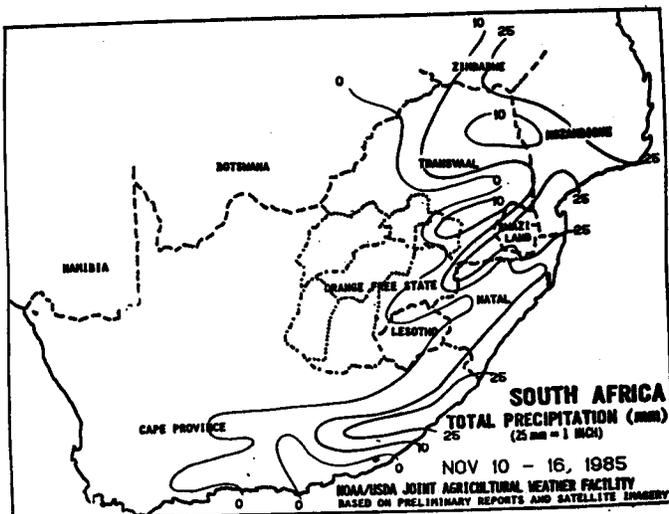
SOUTHEAST ASIA... An influx of tropical moisture brought unseasonable heavy rain (greater than 100mm) to northern Thailand. Moderate rain covered most of western and south central Thailand. The moisture was unfavorable for maturing rice. Drier weather covered rice in the northeast. Moderate to heavy rain along the coast of central Vietnam may have caused localized flooding. Moderate rain benefited the central Philippines.



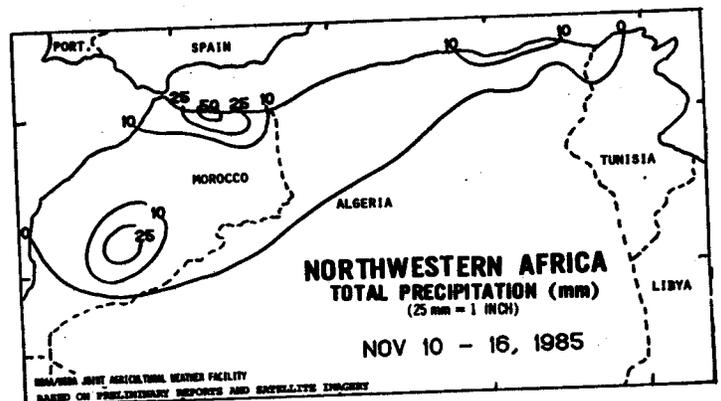
AUSTRALIA...Mostly dry weather favored maturing wheat in southeastern Queensland. Light to moderate showers (10-30mm) fell on maturing wheat in northern New South Wales. Light showers (1-10mm) benefited grain filling wheat in South Australia and Victoria. Above-normal temperatures (32-35c) covered the eastern wheat belt helping to dry maturing grains. Dry weather covered western wheat areas but below-normal temperatures eased the evaporative demand of grain filling wheat. Moisture is adequate for early growth of summer crops.



MEXICO...Mostly dry weather prevailed throughout the country with only light showers occurring at widely scattered locations. Weekly rainfall amounts were 5mm or less, causing little or no interference with summer crop harvesting. In fact, nearly ideal harvest weather prevailed over the Southern Plateau corn belt and the west coast farming region. Mild weather accompanied the dryness with weekly temperatures generally averaging 1-3C above normal.



SOUTH AFRICA...Dry weather prevailed over most of the Malze Triangle. Much of the West Transvaal and Northwest Orange Free State have not received any rain for 2 weeks. Late in the week in the west, hot weather (32-36C) may have stressed emerging corn where topsoils are becoming dry. Light to moderate showers (10-30mm) favored emergence and early growth of corn in eastern Transvaal and western Natal. Moderate rain (25-50mm) continued along the south coast of Cape Province where heavy rain and localized flooding occurred last week.



NORTHWESTERN AFRICA...Highest amounts of rain fell outside the major winter grain areas. Light, spotty showers (less than 8mm) covered most crop areas, continuing a meager rainfall pattern which has covered the region for several weeks. Topsoil moisture in many areas is not yet adequate to permit winter grain planting. However, crop areas in northeastern Algeria received some showers in previous weeks which may have prompted some winter grain planting. Although concern about the delayed onset of autumn rains is increasing, sufficient time remains for sowing to be successfully completed.

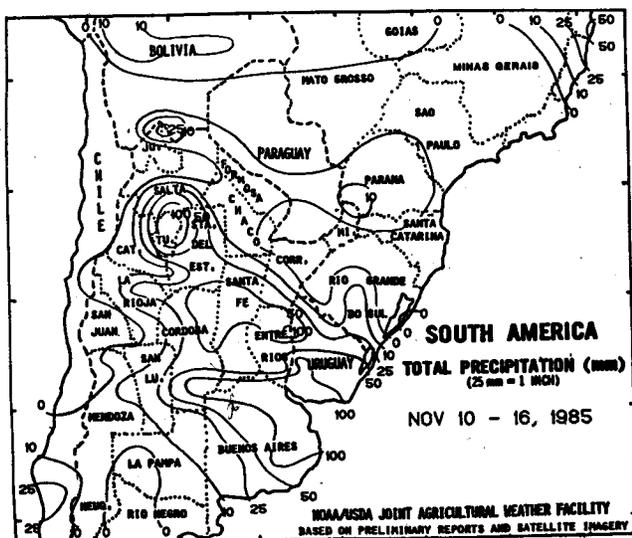
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SOUTH AMERICA... Sharply contrasting weather patterns occurred over crop areas of Brazil and Argentina. In Brazil, dry weather covered most areas except for isolated showers (10-18mm) in southwestern Parana. Hot weather parched the soils of Rio Grande do Sul and halted soybean planting which was about 20 percent complete. Weekly temperatures averaged 5-10C above normal in southern Brazil, with maximum readings pushing up to 40C. The heat and lack of moisture stressed emerging summer crops. Moisture is needed very soon to alleviate the increasingly unfavorable growing conditions. The hot, dry weather extended into Argentina's northeastern cotton areas, but heavy rain (50-188mm) fell in the major summer crop areas of southern Cordoba and the northern and eastern half of Buenos Aires. Frequent rain in recent weeks had already soaked the major corn, wheat, and soybean areas. Planting delays have occurred and some reseedling is likely to be required. Lighter showers (5-25mm) fell in southwestern wheat areas where the crop is maturing.

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