

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

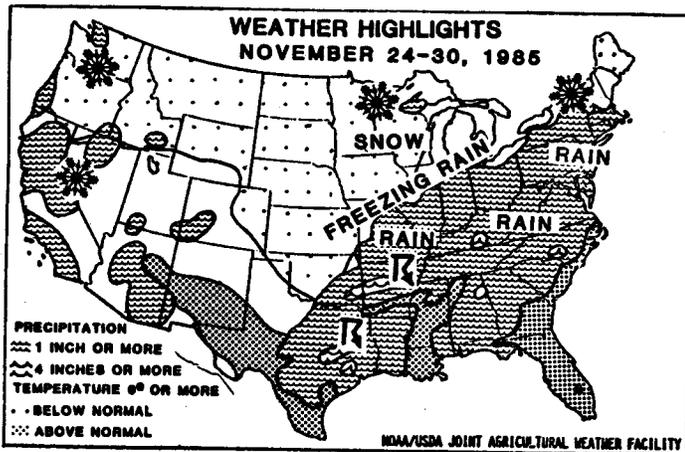
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WASHINGTON, D.C.

Dec. 3, 1985

National Weather Summary

November 24 to 30, 1985



TUESDAY... Showers were light from Arizona through western Texas, but heavy showers and thunderstorms reached from central Texas to the lower Ohio Valley. Lighter showers spread through the Tennessee Valley. Moderate to heavy rain fell from the upper Ohio Valley to southern New England. Snow or freezing rain fell from the Great Lakes to upper New England. More heavy snow fell in the northern Cascades and lighter amounts in the northern Rockies.

WEDNESDAY... Showers and thunderstorms were scattered from Texas through the lower Mississippi Valley and the Tennessee Valley. Thunderstorms produced heavy rain, and a few tornadoes from Louisiana into the Tennessee Valley. Moderate rain fell through the Ohio Valley and from the mid-Atlantic States to New England. Snow was generally light from the northern Plains into the Great Lakes. Rain fell along the Pacific Coast to central California, and snow fell in the mountains.

THURSDAY... Precipitation fell in nearly all of the Nation. Some of the Southwest and southern Florida showed clear skies. Rain or rainshowers fell from Texas to New England and to the Atlantic Coast. A mixture of freezing rain, sleet, and snow fell from the lower Great Lakes to upper New England, and snow fell through the Plains and the northern border States. Snow also fell through the Pacific Northwest, and in the Sierra Nevada mountains and over the Plateau and Rockies. Rain covered most of California.

FRIDAY... It was another rainy or snowy day over nearly all of the Nation. Moderate to heavy rain fell over most of California, and snow fell in the high elevations of the mountains. Showers pushed into the central Plateau, and through Arizona. Snow fell from the interior of Washington through the northern and central Rockies, and Plains. Rain fell from eastern Texas to the Atlantic Coast and to southern New England, while snow fell to the north of this area. Rain was heavy at times from southern Alabama to Virginia.

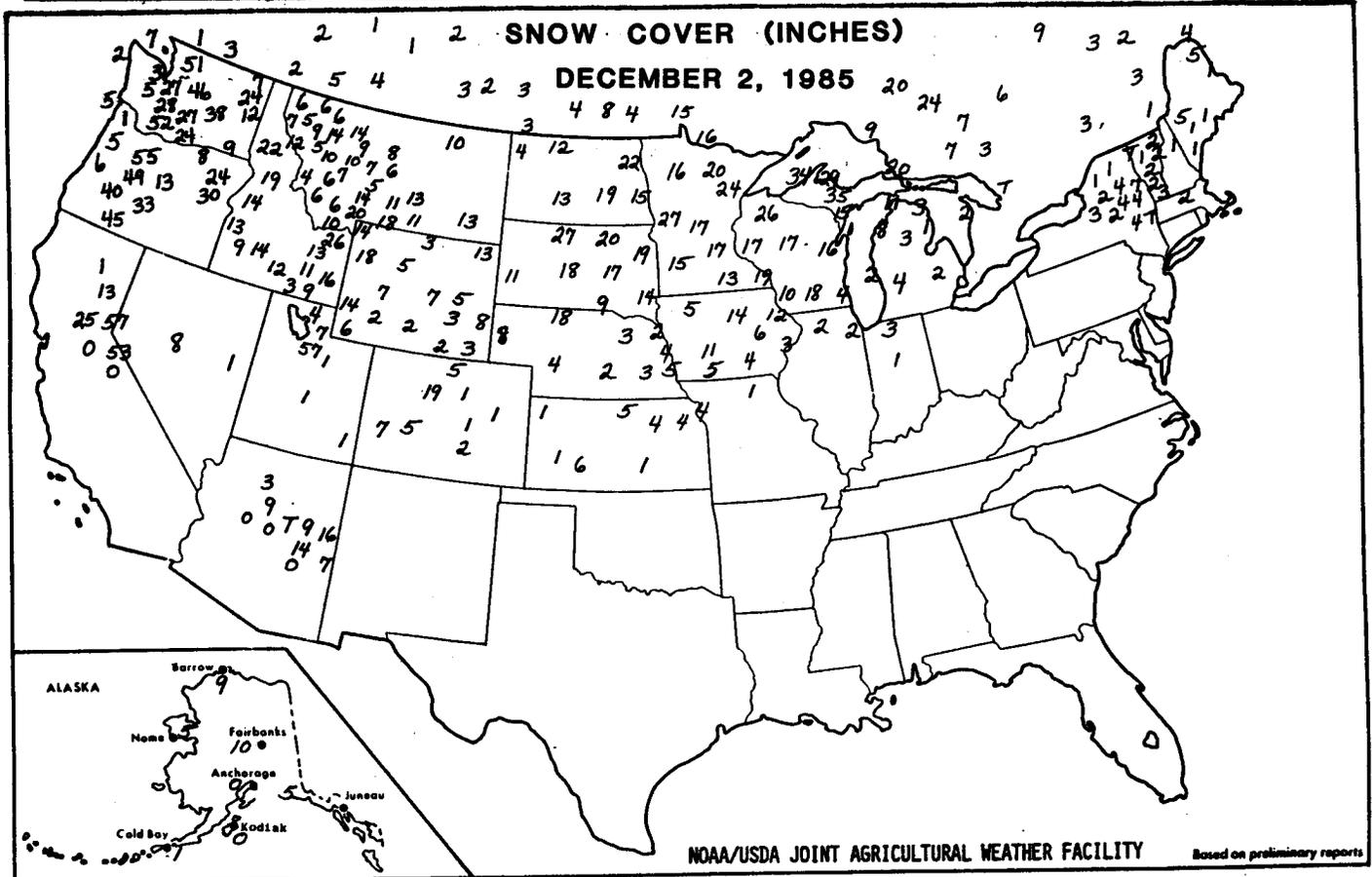
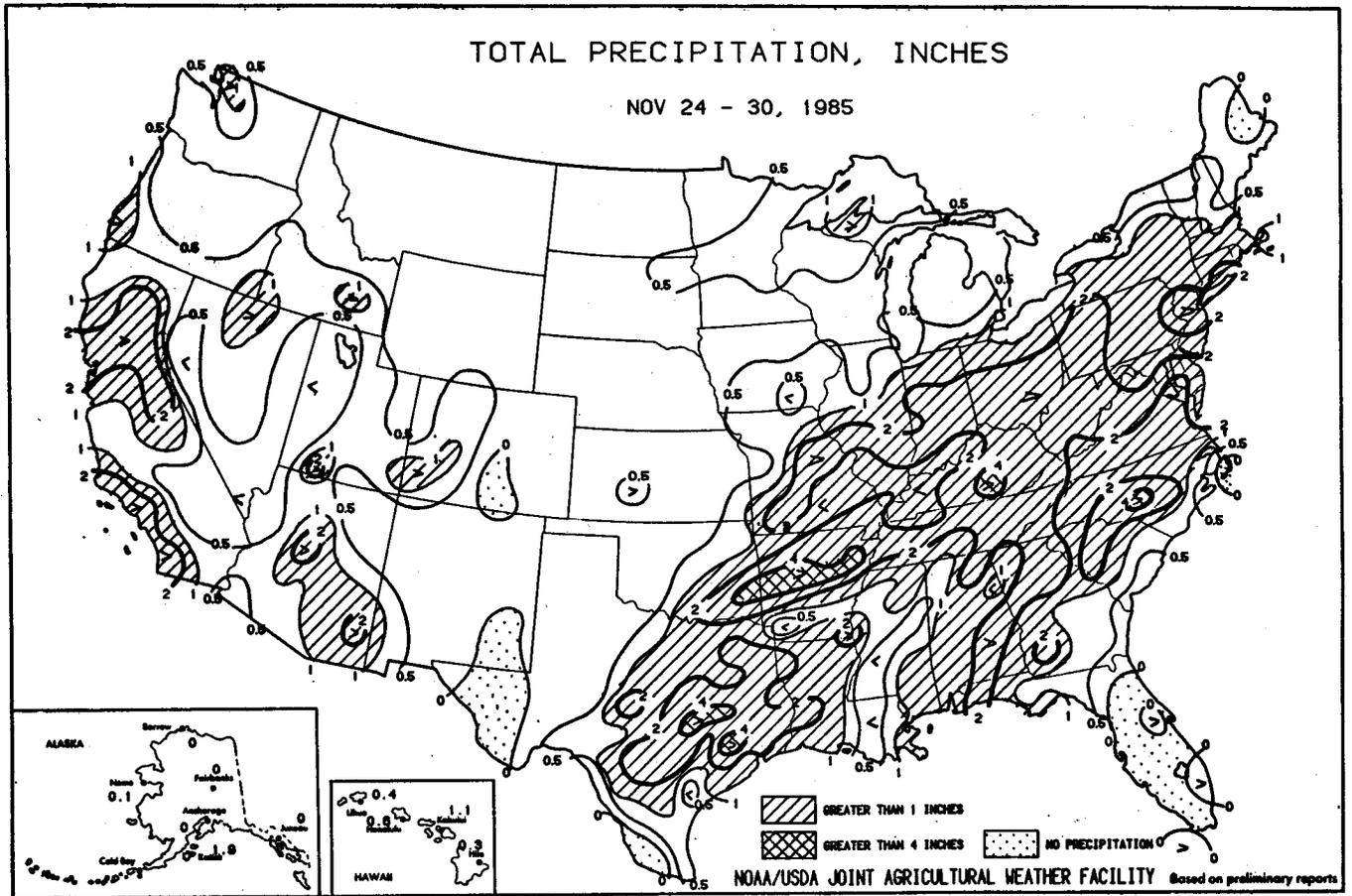
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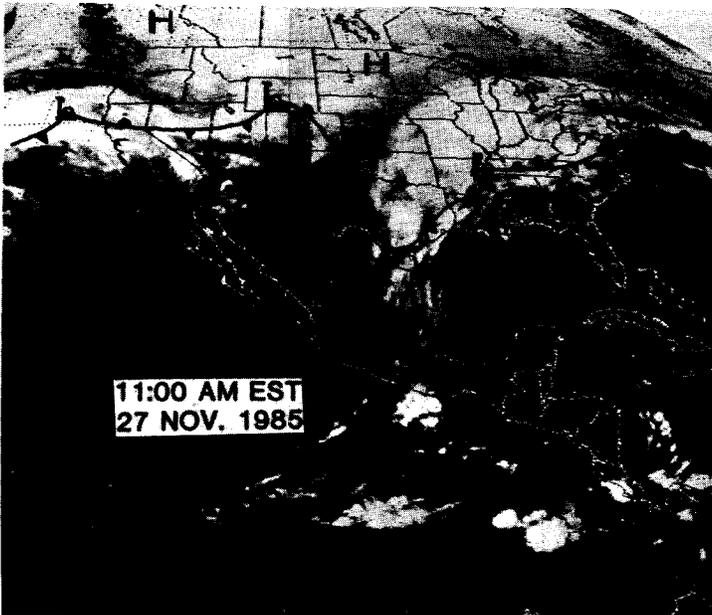
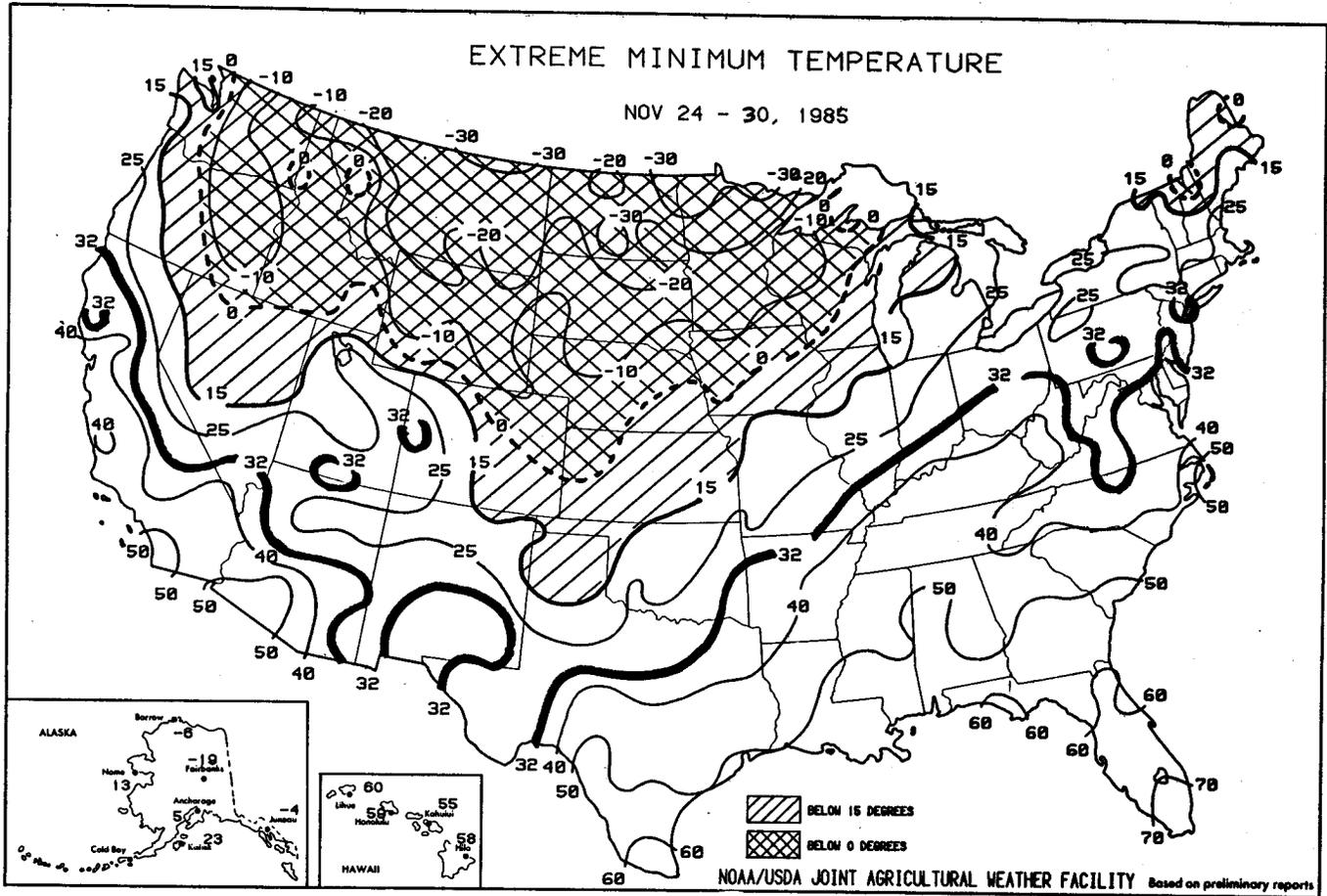
HIGHLIGHTS: Nearly all of the Nation had precipitation. Moderate to heavy rain fell over most of the west coast and throughout California. Snow piled deeper in the Cascade and Sierra Nevada ranges. Snow fell nearly every day over the Plateau, the Rockies, the northern and central Plains and from the Great Lakes through New York to New England. Freezing rain was intermittent from Nebraska to southern New England. Thunderstorms rumbled through the area from eastern Texas to the lower Ohio Valley, and moderate to heavy rain fell from eastern Texas to Georgia and to southern New England. Severely cold weather gripped the Northwest, the northern Plains, and the upper Mississippi Valley.

SUNDAY... A complex frontal system, moving onto the southern Pacific Coast, brought moderate to heavy rain and high wind to most of California, and snow to the Sierra Nevada and southern mountains. Lighter snow fell over the central and northern Plateau and northern Rockies and Plains. Elsewhere, thunderstorms brought heavy showers from southeastern Texas to southern Arkansas and lighter showers from Oklahoma to the Ohio Valley. Freezing rain and sleet fell from Kansas through Missouri. Very cold weather continued in the Northwest, the central and northern Plains, and most of the Great Lakes region.

MONDAY... Heavy rainshowers fell from southern California into Arizona, and lighter showers fell throughout the Southwest with snow at higher elevations. Heavy snow fell in the northern Cascades, and lighter snow continued across the Plateau, the Rockies, the northern Plains, and the upper Great Lakes into New York. Freezing rain covered a strip from Nebraska to southern Michigan. Light rain or drizzle covered most of the rest of the Nation. A few moderate showers were mixed in the lighter rain from eastern Texas to Pennsylvania.

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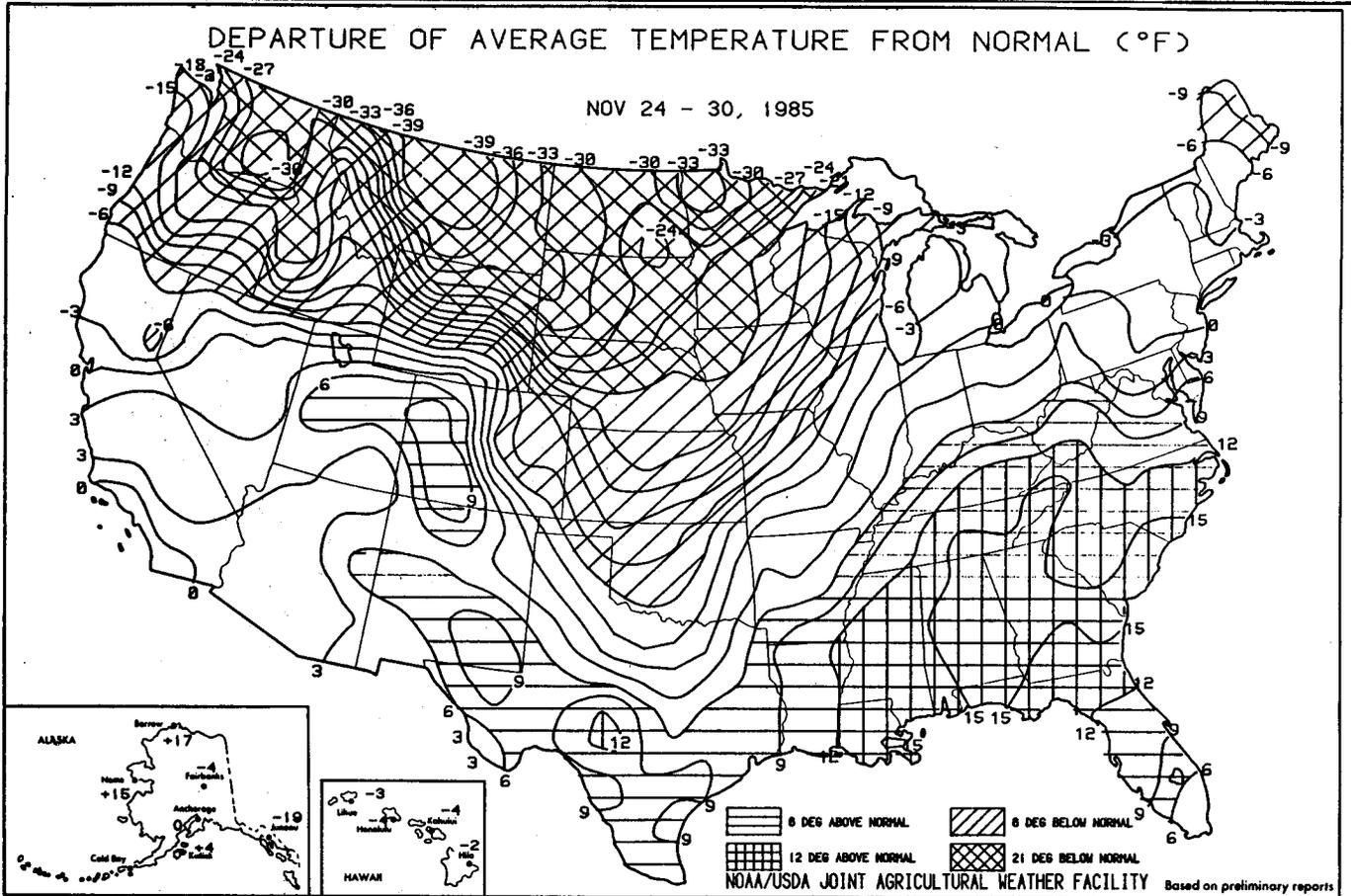




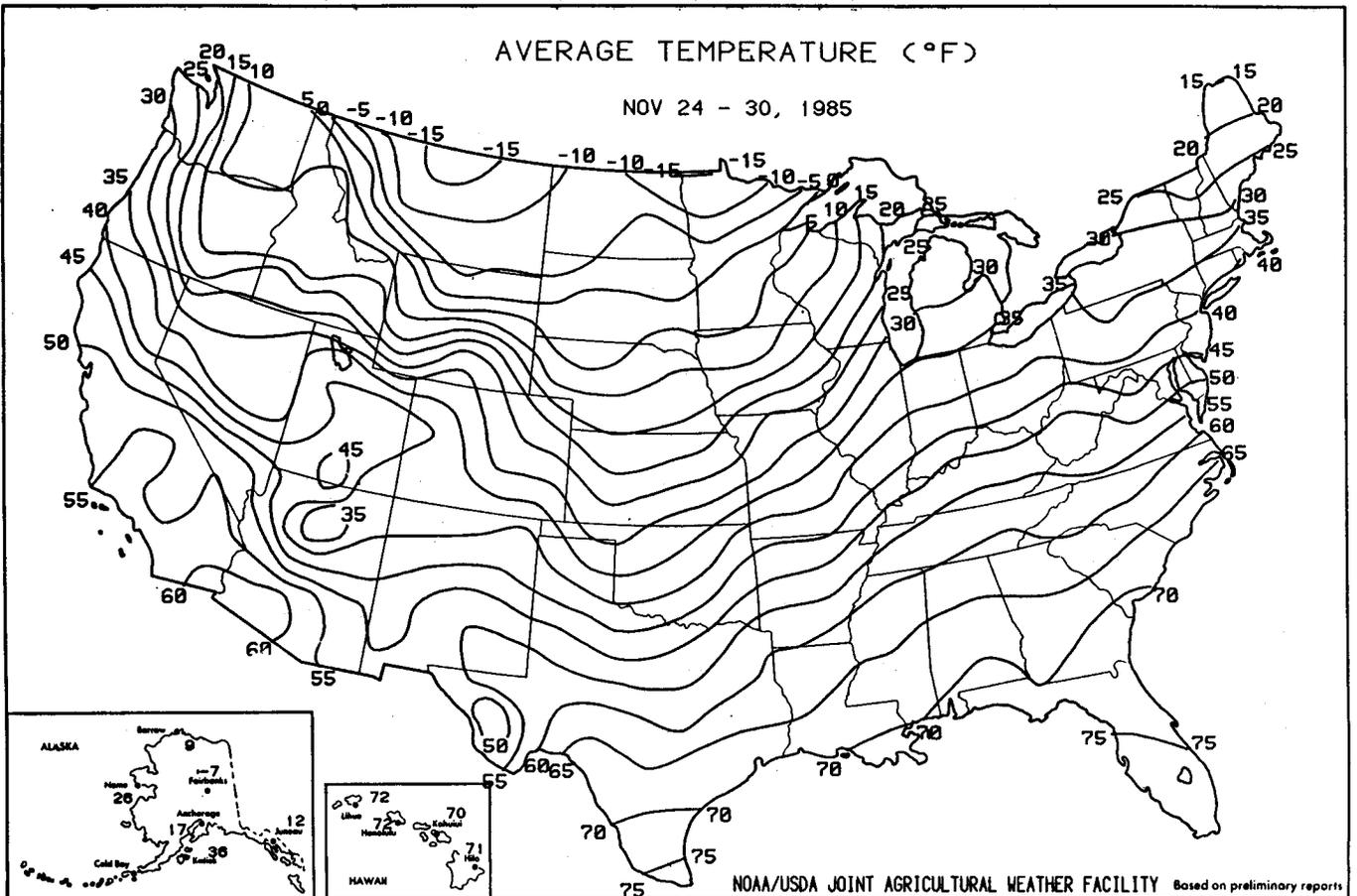
THE SATELLITE IMAGE SHOWS THE POLAR FRONT ACROSS THE UNITED STATES. THE FRONT SEPARATES COLDER AIR TO THE NORTH AND WARM AIR TO THE SOUTH.

WARM, MOIST AIR TO THE SOUTH IS BEING LIFTED OVER THE COLDER AIR GIVING RISE TO A VARIETY OF PRECIPITATION. THUNDERSTORMS ARE CAUSING HEAVY RAIN IN SOUTHEASTERN TEXAS AND ARKANSAS, MODERATE RAIN FALLS FROM MISSOURI AND ARKANSAS TO THE MID-ATLANTIC STATES, FREEZING RAIN IS SCATTERED FROM KANSAS TO SOUTHERN MICHIGAN, AND SNOW REACHES FROM THE UPPER GREAT LAKES INTO NEW YORK. RAIN IS FALLING OVER MUCH OF CALIFORNIA AND HEAVY SNOW PILES HIGH IN THE WESTERN MOUNTAINS.

SEVERELY COLD WEATHER COVERS THE NORTHWEST AND MUCH OF THE PLAINS WHILE UNUSUALLY WARM WEATHER IS OVER THE SOUTHEAST.



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



Weather Data for the Week Ending November 30, 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	TEMPERA- TURE		PRECIPI- TATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	72	58	77	50	65	16	1.9	.9	1.3	10.1	95	47.1	95	97	67	0	0	4	1
MOBILE	76	62	80	53	69	13	1.2	.2	.6	25.1	195	65.6	111	100	73	0	0	3	1
MONTGOMERY	76	61	81	47	69	17	2.1	1.2	1.3	10.0	100	42.8	96	98	68	0	0	4	1
AK ANCHORAGE	23	11	38	5	17	0	T	T	T	4.2	80	14.1	100	88	65	0	0	0	0
BARROW	16	3	21	-6	9	17	T	T	T	1.3	88	3.6	78	94	83	0	0	7	0
FAIRBANKS	-1	-13	10	-19	-7	-7	0	0	0	4.3	173	11.4	119	83	72	0	0	0	0
JUNEAU	20	3	35	-4	12	-19	0	-1.1	0	12.0	62	32.9	69	65	35	0	0	0	1
KODIAK	41	31	44	23	36	4	1.9	.5	1.3	15.4	64	61.7	91	95	74	0	0	3	5
NOME	30	21	33	13	26	15	.1	-1.1	.1	9.6	211	19.9	141	95	73	0	0	3	0
AZ PHOENIX	66	52	74	50	59	2	.6	.5	.4	4.0	223	7.0	111	87	52	0	0	4	0
PRESOTT	51	35	59	29	43	2	2.8	2.5	1.4	5.5	136	15.1	88	90	58	0	0	4	2
TUCSON	66	47	75	42	57	1	1.8	1.6	1.2	5.3	187	13.9	136	93	44	0	0	4	1
YUMA	70	54	73	50	62	2	.4	.3	.4	2.3	309	2.6	113	85	56	0	0	2	0
AR FORT SMITH	53	41	70	33	47	2	2.8	2.0	1.4	19.2	193	49.7	134	97	85	0	0	4	3
LITTLE ROCK	57	45	72	39	51	4	5.0	4.0	2.2	20.9	197	47.5	112	100	92	0	0	6	3
CA BAKERSFIELD	61	50	69	44	55	3	.5	.4	.2	1.7	158	3.7	73	94	63	0	0	3	0
EUREKA	51	41	58	34	46	-4	-9	-5	.5	8.1	85	20.3	63	83	69	0	0	4	1
FRESNO	58	50	65	40	54	5	1.7	1.4	.6	4.3	235	7.7	87	91	68	0	0	6	1
LOS ANGELES	61	53	64	47	57	-2	4.0	3.6	1.6	5.4	278	8.9	85	96	75	0	0	3	3
RED BLUFF	53	40	59	34	46	-3	3.4	2.6	1.8	6.3	133	11.7	65	97	71	0	0	4	3
SACRAMENTO	55	45	58	36	50	0	2.4	1.9	1.8	4.3	128	8.7	61	99	77	0	0	3	1
SAN DIEGO	63	55	66	53	59	-1	3.1	2.8	2.4	5.3	337	7.7	97	92	62	0	0	3	2
SAN FRANCISCO	56	47	61	44	52	-1	2.6	2.0	1.6	4.0	112	10.9	67	98	78	0	0	4	2
CO DENVER	37	13	58	-1	25	-10	.1	-1.1	.1	4.3	142	15.7	106	86	53	0	0	1	0
GRAND JUNCTION	49	35	53	33	42	8	.3	.1	.3	5.2	234	11.6	157	94	54	0	0	3	0
PUEBLO	36	21	48	10	28	-8	T	T	T	2.0	97	12.9	122	99	74	0	0	7	0
CT BRIDGEPORT	42	34	51	31	38	-3	2.0	1.0	1.2	8.3	79	34.2	91	86	69	0	0	2	1
HARTFORD	38	30	50	28	34	-2	1.1	.1	.6	12.2	106	35.6	89	91	70	0	0	4	1
DC WASHINGTON	52	41	60	36	46	2	1.8	1.1	.9	15.0	168	35.2	98	94	72	0	0	5	2
FL APALACHICOLA	78	67	80	60	72	14	1.2	.5	.9	23.1	161	64.4	126	98	80	0	0	4	1
DAYTONA BEACH	82	63	85	58	73	10	T	T	T	15.0	108	43.2	94	98	57	0	0	0	0
JACKSONVILLE	81	63	84	58	72	14	.1	-.4	.1	27.3	217	54.9	109	100	59	0	0	1	0
KEY WEST	83	75	84	73	79	5	.4	-.2	.2	12.3	85	40.1	106	88	70	0	0	2	0
MIAMI	82	71	83	70	76	6	.2	-.2	.2	15.0	84	52.6	94	88	60	0	0	2	0
ORLANDO	84	65	86	62	75	10	.5	.1	.5	8.9	86	43.8	95	100	55	0	0	1	0
TALLAHASSEE	78	62	81	52	70	14	.9	0	.7	15.8	123	55.8	93	100	70	0	0	3	1
TAMPA	84	68	85	62	76	11	0	-.5	0	14.8	142	43.6	98	96	58	0	0	0	0
WEST PALM BEACH	83	72	85	66	77	8	T	T	T	12.8	63	46.4	81	88	59	0	0	1	0
GA ATLANTA	71	58	77	45	64	16	2.6	1.7	1.3	12.6	138	47.6	107	100	72	0	0	4	2
AUGUSTA	74	56	82	47	65	15	2.4	1.8	1.5	14.4	188	36.6	92	94	68	0	0	4	1
MACON	74	60	80	52	67	15	.9	.2	.6	9.1	119	33.0	81	100	70	0	0	4	1
SAVANNAH	79	61	82	52	70	16	.3	-.2	.3	8.4	90	36.9	79	99	58	0	0	1	0
HI HILO	78	63	81	58	71	-2	.3	-.3	.2	22.9	73	109.2	95	91	63	0	0	3	0
HONOLULU	80	64	86	59	72	-4	.6	-.2	.3	8.0	140	16.5	83	93	57	0	0	3	0
KAHULUI	78	63	82	55	70	-4	1.1	-.6	.4	8.0	235	14.4	85	94	62	0	0	3	0
LIHUE	78	66	80	60	72	-3	.4	-.4	.4	8.2	66	25.2	65	87	57	0	0	4	0
ID BOISE	20	7	27	-3	14	-22	.8	.5	.4	4.4	169	10.0	96	93	74	0	0	7	0
LEWISTON	16	6	28	0	11	-26	T	T	T	2.7	92	9.1	79	95	71	0	0	7	0
POCATELLO	30	13	37	2	21	-10	1.3	1.1	.5	4.3	174	10.6	107	94	71	0	0	7	0
IL CHICAGO	37	24	43	11	31	-4	.5	0	.3	15.0	195	38.6	124	94	61	0	0	6	0
MOLINE	30	19	35	11	25	-9	.8	.4	.5	16.6	198	39.0	110	92	68	0	0	7	0
PEORIA	36	25	42	14	31	-4	.5	0	.3	15.6	193	41.5	126	96	75	0	0	7	0
QUINCY	35	23	43	16	29	-8	1.2	.8	.6	18.8	197	40.7	113	97	77	0	0	7	0
ROCKFORD	32	19	37	10	26	-6	.5	0	.2	15.6	175	37.7	108	95	69	0	0	7	0
SPRINGFIELD	42	29	57	18	36	-2	2.0	1.5	1.0	10.7	143	36.5	115	97	80	0	0	5	0
IN EVANSVILLE	52	40	67	35	46	5	1.9	1.1	1.1	15.8	185	44.3	116	97	85	0	0	4	1
FORT WAYNE	41	33	60	27	37	1	1.1	.5	.5	10.6	138	33.4	104	98	79	0	0	3	0
INDIANAPOLIS	45	36	63	25	40	3	2.1	1.4	1.1	12.9	155	43.5	120	97	79	0	0	1	0
SOUTH BEND	38	32	47	24	35	-1	.6	-.1	.4	12.0	130	36.7	104	92	70	0	0	4	0
IA DES MOINES	21	9	31	4	15	-18	.6	.3	.5	10.8	160	27.2	91	86	62	0	0	7	0
SIOUX CITY	16	5	26	-1	10	-21	.2	0	.1	6.8	131	22.9	93	84	61	0	0	7	0
WATERLOO	22	4	31	-1	13	-16	.4	.1	.4	10.1	135	28.8	91	90	66	0	0	7	0
KS CONCORDIA	23	12	35	6	17	-19	.3	.1	.2	5.9	101	25.3	96	88	68	0	0	7	0
DODGE CITY	32	15	50	7	24	-14	.6	.4	.5	7.4	190	22.6	112	93	75	0	0	7	0
GOODLAND	29	12	51	-3	20	-14	.1	-1.1	0	3.4	116	21.7	136	98	80	0	0	7	0
TOPEKA	27	18	37	12	22	-16	.3	0	.1	15.4	192	43.9	137	94	69	0	0	7	0
WICHITA	35	20	60	11	28	-12	.1	-.2	.1	13.1	177	32.9	119	93	71	0	0	7	0
KY BOWLING GREEN	60	48	68	44	54	12	2.2	1.2	1.2	11.6	117	38.7	87	99	80	0	0	5	1
LEXINGTON	57	45	67	40	51	10	2.5	1.7	1.8	11.1	126	36.6	87	97	84	0	0	4	1
LOUISVILLE	56	46	68	42	51	9	1.3	.5	.7	10.2	108	36.8	92	96	81	0	0	3	2
LA ALEXANDRIA	69	58	82	49	64	9	1.9	.7	1.7	24.8	217	60.9	122	91	78	0	0	3	1
BATON ROUGE	77	61	84	54	69	13	.3	-.8	.2	16.8	153	55.6	109	98	67	0	0	2	0
LAKE CHARLES	73	60	83	49	67	10	1.8	.8	1.7	17.9	143	49.1	102	99	80	0	0	2	1
NEW ORLEANS	76	65	84	54	71	13	.9	-.3	.6	19.9	158	62.1	114	97	74	0	0	4	1

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

(Continued from front cover)

SATURDAY...A winter storm, winding up in the Texas Panhandle, brought additional moisture from the Gulf of Mexico into the central States. Thunderstorms rolled from Texas and Louisiana into Missouri, and heavy rain reached to southern

Wisconsin. Heavy snow fell from western Oklahoma into Minnesota. Rain or showers covered the East Coast States except for southern Florida and Maine. Skies cleared in California and Nevada, but snow continued in the Northwest and through the Rockies.

Weather Data for the Week Ending November 30, 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 °F		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
ME SHREVEPORT	65	54	80	40	60	7	3.1	2.2	2.1	18.4	190	47.9	120	99	85	0	0	4	2
ME CARIBOU	23	19	30	2	16	-9	1.8	1.8	1	7.0	72	26.6	80	84	55	0	0	3	0
ME PORTLAND	36	24	48	20	30	-4	1.2	1.0	1	13.4	114	31.6	81	84	50	0	7	3	0
MD BALTIMORE	49	39	56	31	44	2	1.8	1.0	-9	13.4	139	35.9	93	92	70	0	2	4	2
MD SALISBURY	59	42	72	32	51	7	2.3	1.6	2.0	12.8	119	36.7	88	97	72	0	1	3	1
MA BOSTON	40	31	50	26	36	-5	1.3	1.2	0.6	11.0	100	35.3	90	91	63	0	4	4	2
MA CHATHAM	46	37	52	30	42	1	1	1.3	1.5	8.9	74	41.0	98	91	61	0	2	4	1
MI ALPENA	33	20	36	13	27	-4	1.4	1.1	0.6	8.6	120	30.6	114	94	70	0	7	3	0
MI DETROIT	38	31	48	25	35	0	0	0.9	0.3	11.9	178	38.5	135	96	72	0	5	4	0
MI FLINT	35	26	41	14	31	-3	1.3	1.2	0.1	14.8	218	39.0	143	96	70	0	7	5	0
MI GRAND RAPIDS	34	27	39	22	31	-3	1.4	1.3	0.1	14.4	160	39.0	123	95	74	0	7	6	0
MI HOUGHTON LAKE	29	21	34	13	25	-5	1.2	1.3	0.1	10.3	144	30.5	118	90	72	0	7	4	0
MI LANSING	35	28	38	22	32	-2	1.3	1.3	0.2	9.6	137	32.7	119	96	76	0	7	4	0
MI MARQUETTE	23	5	31	-4	14	-11	1.1	0.7	0	17.2	170	47.8	138	94	76	0	7	5	0
MI MUSKOGON	35	26	39	22	31	-4	1.2	1.4	0.3	14.9	174	39.2	136	92	70	0	7	6	0
MI SAULT STE. MARIE	30	19	33	16	24	-4	1.8	1.1	0.4	9.9	99	35.9	116	93	59	0	7	6	0
MN ALEXANDRIA	8	-9	19	-15	-1	-24	1.0	0.8	0.5	7.5	141	24.7	104	87	64	0	7	5	0
MN DULUTH	9	-12	21	-18	-1	-24	1.5	1.2	1.0	10.1	141	31.1	110	90	68	0	7	5	0
MN INT'L FALLS	1	-23	13	-32	-11	-30	1.3	1.2	0.2	6.5	104	29.7	127	89	68	0	7	4	0
MN MINNEAPOLIS	15	-3	26	-12	6	-22	1.6	1.3	0.3	9.5	168	30.2	118	89	62	0	7	4	0
MN ROCHESTER	16	-2	27	-8	7	-20	1.4	1.1	0.3	10.3	157	26.5	97	90	68	0	7	3	0
MS GREENWOOD	70	56	80	47	63	13	1.0	0.2	0.8	12.4	116	34.8	73	95	69	0	0	3	1
MS JACKSON	74	57	84	51	66	14	1.7	1.1	0.4	11.6	112	43.8	92	98	67	0	0	0	0
MS MERIDIAN	72	57	82	47	64	13	1	0.4	0.4	13.7	142	47.9	101	99	73	0	0	2	0
MO CAPE GIRARDEAU	56	39	68	37	48	1	2.0	1.1	1.6	11.2	115	45.6	112	99	86	0	0	0	0
MO COLUMBIA	41	26	63	22	33	-6	4.0	3.6	2.5	14.8	164	51.9	152	98	87	0	7	5	2
MO KANSAS CITY	27	19	36	14	23	-16	1.6	1.4	0.4	20.7	233	51.5	152	95	72	0	7	6	0
MO SAINT LOUIS	45	32	64	24	39	-1	1.7	1.0	0.9	12.3	163	47.0	148	99	84	0	4	5	1
MO SPRINGFIELD	47	33	68	26	40	-1	2.3	1.6	1.4	18.9	183	53.6	158	98	86	0	4	6	2
MT BILLINGS	-3	-12	6	-19	-8	-40	1.5	1.3	0.2	4.2	128	12.6	88	81	68	0	7	5	0
MT GLASGOW	-7	-21	-2	-26	-14	-39	1.2	1.2	0.1	2.2	126	12.4	111	84	67	0	7	5	0
MT GREAT FALLS	-5	-18	10	-25	-11	-43	1.2	1.1	0.1	5.5	212	16.6	115	82	66	0	7	6	0
MT HAVRE	-7	-23	5	-27	-15	-41	1.1	0.1	0.1	4.2	217	10.3	96	70	57	0	7	2	0
MT HELENA	-1	-15	9	-18	-8	-37	1.3	1.1	0.1	3.7	182	8.8	81	89	62	0	7	5	0
MT KALISPELL	7	-7	13	-16	0	-29	1.2	1.1	0.2	6.6	194	14.0	98	80	54	0	7	3	0
MT MILES CITY	-1	-16	5	-25	-8	-36	1.3	1.2	0.1	2.7	104	11.8	89	81	59	0	7	5	0
MT MISSOULA	16	6	22	1	11	-18	1.2	1.0	0.1	4.9	178	12.1	100	86	58	0	7	5	0
NE GRAND ISLAND	19	7	30	1	13	-20	1.1	0	0.1	8.3	190	28.5	126	85	63	0	7	2	0
NE LINCOLN	19	8	30	4	13	-20	1.2	0	0.1	6.4	115	30.5	116	85	65	0	7	2	0
NE NORFOLK	15	4	27	-3	10	-21	1.2	0	0.1	6.5	155	25.3	109	85	65	0	7	3	0
NE NORTH PLATTE	16	5	27	-5	11	-20	1.4	0.3	0.3	5.5	176	18.6	98	83	62	0	7	3	0
NE OMAHA	18	6	28	2	12	-20	1.5	0.3	0.3	5.8	87	22.0	75	79	54	0	7	2	0
NE SCOTTSDUFF	16	4	34	-5	10	-22	1.3	0.2	0.1	4.9	211	10.9	78	93	72	0	7	3	0
NE VALENTINE	12	-8	26	-18	2	-27	1.2	1.1	0.2	4.3	162	14.8	88	77	60	0	7	3	0
NV ELY	41	22	46	11	32	2	1.4	1.2	0.2	4.7	250	9.3	112	95	60	0	0	3	0
NV LAS VEGAS	62	44	65	38	53	4	1.3	1.2	0.2	5	52	1.3	33	80	45	0	0	3	0
NV RENO	48	31	53	22	39	3	1.2	0	0.1	2.3	187	4.4	70	93	54	0	3	4	0
NV WINNEMUCCA	39	19	42	2	29	-5	1.3	1.1	0.5	3.2	191	6.1	87	97	68	0	7	4	1
NH CONCORD	35	24	46	16	29	-3	1.5	0.4	0.3	12.0	121	29.3	89	96	66	0	7	4	0
NJ ATLANTIC CITY	52	38	58	29	45	4	1.3	0.4	0.7	7.1	73	29.0	76	96	75	0	1	4	1
NM ALBUQUERQUE	54	35	60	30	45	5	1.1	0	0.1	3.9	188	10.6	139	85	42	0	1	2	0
NM CLOVIS	62	30	69	16	46	3	1.1	0	0.1	7.7	185	27.6	167	84	32	0	4	0	0
NM ROSWELL	70	41	76	33	56	10	0	0	0.1	2.9	96	12.4	132	64	24	0	0	0	0
NY ALBANY	37	29	43	26	33	-1	1.4	0.6	0	10.0	108	27.8	85	96	67	0	7	4	2
NY BINGHAMTON	36	28	40	24	32	-2	1.8	1.1	0.9	11.8	126	31.3	92	96	76	0	7	6	1
NY BUFFALO	38	30	43	28	34	-2	1.1	0.3	0.6	14.7	116	41.1	121	95	72	0	7	4	1
NY NEW YORK	45	38	53	34	41	-1	1.9	1.0	1.1	12.2	116	36.0	92	91	66	0	0	6	2
NY ROCHESTER	38	30	42	26	34	-2	1.0	0.4	0.5	11.8	150	28.5	98	98	68	0	2	5	0
NY SYRACUSE	36	30	44	27	33	-3	1.8	0	0.4	12.5	127	30.7	86	96	75	0	7	2	1
NC ASHEVILLE	65	51	75	40	58	15	1.5	0.7	1.2	9.6	91	35.5	80	99	72	0	0	0	0
NC CHARLOTTE	67	52	76	39	60	13	2.4	1.7	1.4	14.5	159	48.4	122	94	70	0	0	3	2
NC GREENSBORO	65	48	74	36	57	12	1.6	0.9	0.8	10.2	109	35.8	92	98	70	0	0	0	0
NC HATTERAS	70	60	76	51	65	12	0	-1.1	0	35.3	228	66.4	130	96	71	0	0	3	0
NC NEW BERN	73	55	81	40	64	13	0.5	-0.2	0.5	22.9	187	92.7	107	98	63	0	0	2	0
NC RALEIGH	68	49	78	32	59	12	1.4	0.7	0.8	9.7	109	37.5	97	89	64	0	1	3	2
NC WILMINGTON	78	58	83	41	68	16	0.5	-0.2	0.3	11.8	99	42.5	85	100	65	0	0	3	0
ND BISMARCK	0	-17	9	-30	-9	-32	1.5	0.4	0.3	3.6	131	17.5	117	82	62	0	7	5	0
ND FARGO	4	-19	19	-24	-8	-30	1.3	1.1	0.2	3.5	89	18.5	97	84	64	0	7	4	0
ND GRAND FORKS	-2	-25	12	-31	-14	-35	1.5	0.3	0.3	4.0	101	16.9	95	84	62	0	7	4	0
ND WILLISTON	-4	-17	4	-24	-10	-33	1.2	1.1	0.2	3.5	133	12.0	90	81	61	0	7	2	0
OH AKRON-CANTON	44	33	59	27	38	2	1.3	0.7	0.8	11.4	148	35.9	108	97	77	0	3	5	1
OH CINCINNATI	49	40	64	34	45	6	2.2	1.4	0.9	14.1	164	42.6	115	95	78	0	0	4	2
OH CLEVELAND	44	33	60	29	38	1	1.4	0.8	0.8	14.2	175	38.5	118	92	72	0	4	4	1
OH COLUMBUS	46	38	62	33	42	4	2.4	1.8	1.4	13.8	188	36.8	107	85	69	0	0	4	1

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

Weather Data for the Week Ending November 30, 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 °F		PRECIPITATION	
																90 AND ABOVE	72 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
DAYTON	46	36	62	31	41	3	2.4	1.7	1.3	11.4	162	33.4	104	92	75	0	2	4	2
TOLEDO	41	32	59	27	36	2	1.5	.9	1.0	11.5	166	36.7	126	94	69	0	3	5	1
YOUNGSTOWN	45	32	59	26	39	3	1.4	.8	.9	13.0	152	37.6	109	97	70	0	4	4	1
OK OKLAHOMA CITY	45	28	71	18	37	-8	.5	.2	.5	13.7	178	44.1	148	94	77	0	5	5	0
TULSA	46	30	74	25	38	-7	.8	.2	.4	15.8	153	49.9	135	95	81	0	4	3	0
OR ASTORIA	36	25	45	19	31	-14	.2	-2.3	-1	17.1	89	38.7	67	97	67	0	7	3	0
BURNS	24	3	35	-13	14	-18	.3	.1	.3	3.5	147	7.9	114	—	—	0	7	2	0
MEDFORD	41	29	48	23	35	-6	.9	.2	.4	5.1	95	9.9	60	97	72	0	6	4	0
PENDLETON	16	5	32	-12	11	-28	.1	-.2	.1	4.9	164	9.9	94	78	49	0	7	4	0
PORTLAND	30	21	40	13	25	-18	.1	-.1	.1	9.4	95	20.2	65	82	59	0	7	4	0
SALEM	35	20	46	11	27	-15	.1	-.4	.1	9.1	85	20.9	63	89	62	0	7	4	0
PA ALLENTOWN	42	35	51	30	38	0	2.3	1.4	.9	18.4	170	45.1	111	93	72	0	4	5	2
ERIE	45	33	60	31	39	2	1.2	.4	.9	17.8	162	42.6	118	92	67	0	1	4	1
HARRISBURG	43	36	51	32	39	0	2.0	1.2	.6	11.3	118	32.9	92	91	70	0	1	5	3
PHILADELPHIA	47	38	55	34	42	1	2.5	1.6	1.3	13.5	141	34.3	90	95	73	0	1	6	2
PITTSBURGH	47	34	60	31	41	3	2.1	1.6	1.0	13.7	179	36.3	108	87	67	0	2	4	2
SCRANTON	40	32	47	30	36	0	1.5	.8	.6	14.2	155	38.3	118	97	70	0	3	5	1
RI PROVIDENCE	41	31	51	26	36	-3	1.1	0	.6	10.8	94	39.5	97	89	60	0	5	4	1
SC CHARLESTON	78	60	83	50	69	16	1.1	-.4	-.1	12.4	124	49.0	101	99	59	0	0	1	0
COLUMBIA	73	55	81	43	64	13	1.6	1.0	.8	14.5	156	46.9	103	100	72	0	0	4	2
FLORENCE	74	57	82	43	66	14	.7	-.1	.4	9.3	107	32.9	80	95	65	0	0	4	0
GREENVILLE	66	54	73	41	60	12	1.8	1.1	.9	13.7	124	43.6	94	99	80	0	0	4	2
SD ABERDEEN	5	-12	17	-21	-3	-28	.6	.5	.4	5.2	167	18.1	105	87	69	0	7	4	0
HURON	10	-8	22	-17	1	-25	.5	.3	.2	6.8	199	24.4	135	88	68	0	7	3	0
RAPID CITY	4	-6	16	-14	-1	-33	.4	.4	.2	4.8	203	12.8	81	87	68	0	7	5	0
SIOUX FALLS	12	-3	24	-9	5	-23	.2	-.1	.1	6.0	114	26.6	114	84	63	0	7	3	0
TN CHATTANOOGA	67	55	74	41	61	16	2.0	.9	1.2	9.1	80	37.1	78	98	73	0	0	5	2
KNOXVILLE	67	53	74	37	60	15	2.7	1.7	1.5	8.9	93	34.1	80	98	75	0	0	4	2
MEMPHIS	63	51	77	44	57	9	2.1	1.0	1.4	11.2	110	44.3	95	97	79	0	0	5	2
NASHVILLE	65	51	74	46	58	13	2.1	1.1	1.7	7.9	81	29.9	68	96	72	0	0	5	1
TX ABILENE	63	40	80	31	51	2	.9	.6	.8	5.3	79	22.2	99	96	65	0	1	3	1
AMARILLO	51	27	72	11	39	-3	.1	0	.1	8.3	227	22.0	118	100	66	0	6	1	0
AUSTIN	68	54	80	44	61	6	2.8	2.3	1.5	14.6	159	31.5	107	98	75	0	0	5	2
BEAUMONT	73	60	82	48	67	9	1.9	.8	1.7	22.8	162	65.4	136	100	83	0	0	3	1
BROWNSVILLE	83	68	85	63	76	10	.7	.4	.7	11.1	109	32.4	133	99	69	0	0	2	1
CORPUS CHRISTI	76	63	83	54	69	7	.6	.3	.6	13.4	123	35.1	122	99	79	0	0	1	1
DEL RIO	72	57	77	49	65	9	.2	.1	.1	4.5	78	17.4	104	93	60	0	0	3	0
EL PASO	64	43	70	37	53	6	.1	0	.1	3.4	138	8.2	111	83	37	0	0	2	0
FORT WORTH	59	47	76	31	50	-2	1.2	.8	.7	10.3	137	30.1	108	96	78	0	0	1	1
GALVESTON	73	61	78	51	67	7	1.0	.2	1.0	8.2	71	38.3	105	100	81	0	0	1	1
HOUSTON	72	60	84	48	66	9	3.2	2.4	2.6	15.9	133	45.1	110	92	75	0	0	3	1
LUBBOCK	64	33	75	19	48	4	.2	.2	.2	8.6	193	23.0	133	98	47	0	1	1	0
MIDLAND	72	41	77	31	57	8	T	T	T	9.1	223	16.3	123	99	32	0	1	1	0
SAN ANGELO	68	49	80	42	58	7	.1	-.1	.1	9.0	148	21.8	124	97	61	0	0	2	0
SAN ANTONIO	71	58	79	44	65	8	2.8	2.3	1.1	13.6	151	41.0	147	95	76	0	0	4	3
VICTORIA	74	61	83	49	68	8	.7	.2	.6	7.1	60	37.7	108	99	77	0	0	3	1
WACO	63	48	78	39	56	2	2.5	2.0	1.2	13.7	162	30.9	107	99	81	0	0	4	2
WICHITA FALLS	54	32	76	25	43	-5	.6	.3	.5	6.3	85	30.5	120	92	70	0	4	5	0
UT BLANDING	42	30	49	26	36	2	1.3	1.1	.8	6.9	214	15.7	151	97	81	0	0	3	1
CEDAR CITY	47	33	53	28	40	5	.4	.2	.4	3.0	115	9.5	99	93	50	0	4	5	0
SALT LAKE CITY	46	32	52	27	39	3	.4	.1	.2	6.2	191	15.6	112	88	60	0	4	5	0
VT BURLINGTON	33	22	41	16	28	-4	.1	-.6	.1	10.2	116	31.6	101	87	60	0	7	2	0
VA NORFOLK	67	50	80	36	59	11	2.7	2.1	1.7	16.0	150	44.0	105	93	65	0	0	2	2
RICHMOND	62	44	75	35	53	8	1.1	.3	.7	17.1	162	48.7	120	94	64	0	0	3	1
ROANOKE	62	46	72	34	54	10	1.2	.6	.6	17.2	186	48.7	135	95	67	0	0	5	1
WA COLVILLE	13	-1	17	-16	6	-25	T	-.5	T	5.6	138	12.7	85	82	67	0	7	2	0
QUILLAYUTE	31	20	36	9	26	-16	.4	-.3	.2	27.3	92	56.4	64	93	67	0	7	3	0
SEATTLE-TACOMA	32	21	36	16	26	-17	.4	-.4	.4	11.7	106	23.1	72	80	67	0	7	1	0
SPOKANE	11	-5	17	-12	3	-29	.1	-.5	0	5.3	136	10.5	74	87	69	0	7	4	0
YAKIMA	14	1	19	-11	8	-27	T	-.3	T	2.5	140	4.8	72	86	59	0	7	1	0
WV BECKLEY	57	46	64	36	51	13	2.0	1.3	1.2	8.4	97	34.5	89	96	76	0	0	5	1
CHARLESTON	58	46	73	41	52	10	2.6	1.9	1.4	12.8	150	38.3	98	84	70	0	0	4	2
HUNTINGTON	55	44	70	40	50	8	2.4	1.7	1.0	12.9	156	42.6	113	94	78	0	0	3	2
PARKERSBURG	50	39	66	35	45	4	2.0	1.3	.7	13.1	173	33.4	87	98	77	0	0	4	2
WI GREEN BAY	26	10	34	3	18	-11	.4	0	.1	11.3	160	36.6	138	91	68	0	7	5	0
LA CROSSE	22	5	30	-3	14	-16	.2	-.1	.1	9.6	135	26.7	91	86	63	0	7	4	0
MADISON	27	12	34	5	20	-10	.3	-.2	.1	14.6	205	36.4	124	94	71	0	7	5	0
MILWAUKEE	35	21	39	10	28	-4	.5	0	.2	15.9	223	34.5	119	95	66	0	7	6	0
WAUSAU	21	2	30	-6	12	-14	.5	.1	.2	12.7	160	33.0	109	86	63	0	7	4	0
WY CASPER	27	2	43	-16	14	-15	.3	.2	.2	3.0	131	10.5	96	91	57	0	7	5	0
CHEYENNE	34	14	49	-10	24	-8	.1	-.1	.1	3.5	155	19.0	147	90	57	0	7	2	0
LANDER	23	2	39	-10	12	-14	T	-.1	T	3.4	121	9.0	72	84	52	0	7	3	0
SHERIDAN	5	-9	11	-16	-2	-32	.1	-.1	.1	3.6	115	10.8	76	83	62	0	7	1	0
PR SAN JUAN	83	70	84	68	77	-2	.2	-.2	.2	20.7	120	42.0	85	93	64	0	0	1	0

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

National Agricultural Summary

November 25 to December 1, 1985

HIGHLIGHTS: Cold, snowy, and wet weather held harvest to almost a standstill in the eastern half of the Nation. Rain in the West slowed cotton harvest. Fieldwork averaged less than 3 days in most areas except for a few States in the Southeast and Southwest. Soil moisture was adequate to surplus in most areas.

Winter wheat was mostly good with snow protection from the bitter cold temperatures in the Northern Plains, Rockies, and the Pacific Northwest. Corn harvest was 87 percent (%) finished, up 4 points from last week. Harvest trails the normal pace by 10 points and was 9 points behind 1984. Soybean harvest inched forward 2 points from the previous week, but lags 8 points behind normal. Sorghum was 94% harvested, compared with 98% harvested last year and average. Cotton picking was 73% complete when normally 77% would be picked. Pastures were generally good to fair. Moisture in the southern half of the Nation continued promoting growth. Livestock was mostly good. Supplemental feeding was heavy in the Northern States with some producers faced with buying hay or reducing herd size.

SMALL GRAINS: In the 15 major producing States, winter wheat was 90% emerged compared with 93% normally. In some areas germination may not occur until next Spring. Winter wheat was mostly good with snow protection from the bitter cold weather in the northern Plains, Rockies, and in the Pacific Northwest. Wheat was excellent to good in Kansas and mostly good in Nebraska. Ohio's winter wheat was mostly good, but producers were concerned that standing water may damage the crop when freezing occurs. Planting continued in the South but lagged behind normal in most States. In Texas, seeding was 93% finished, 3 points behind normal. The crop was in good to excellent condition but cold weather slowed growth in most areas.

CORN: With blizzard-like condition across the Northern Plains and rain throughout the Corn Belt and the Southeast, corn harvest almost ground to a halt. However, harvest inched forward 4 points bringing total completion to 87%, 10 points behind normal. In all 17 major producing States, except Michigan and Nebraska, harvest remained the same or moved forward less than 3 points from last week. Nebraska producers harvested 10% of their acreage last week but were still 8 points behind normal. Michigan corn was 75% harvested, up 5 points from the previous week, yet 22 points slower than normal. Lodging was becoming a problem in most areas.

SOYBEANS: In the 19 major soybean producing States, harvest was 87% complete, 8 points off the normal pace. Rain or snow limited harvest in most areas of the Nation. Harvest progress ranged from 1 point behind normal in Iowa and Ohio to 35 points behind normal in North Carolina. Harvest was behind normal in all States except Minnesota and South Dakota.

COTTON: Cotton was 73% harvested compared with 77% normally and 69% last year. Harvest progress was unchanged from the previous week in Oklahoma

and South Carolina. In New Mexico harvest was 24 points below the average while North Carolina producers trailed 10 points behind normal. In Texas harvest was 8 points below the average. Harvest made good progress across the Plains and Cross Timbers despite dampness. Rain halted harvest in the Low Plains. In California harvest was slowed by rain but ended the week only 2 points behind normal. Harvest was ahead of normal in the Delta States.

OTHER CROPS: Sorghum harvest moved 1 point closer to completion with 94% of the acreage combined. Normally 98% would be harvested. Nebraska, Kansas, Texas, and Missouri were behind normal (1, 2, 3, and 16 points, respectively).

Tobacco stripping and marketing continued in the burley States.

Texas peanut harvest was 22 points behind normal at 66% completion. Harvest made little progress in the major producing areas. Heavy rain may cause severe losses in some areas.

VEGETABLES: Ideal weather prevailed in Florida's vegetable area. Planting was very active as the fall season neared completion for some crops. Planting of winter and spring vegetables was underway. Snap beans, sweet corn, cucumbers, celery, eggplant, green peppers, radishes, squash, and tomatoes volume remained good. Cabbage, carrots, escarole, and lettuce supplies began increasing. In Texas, peppers, cabbage, and broccoli harvest continued. Some vegetables in east Texas were hurt from too much water and low temperatures. In Arizona, vegetable harvest continued consisting mostly of Romaine and Leaf lettuce, cauliflower, broccoli, Bok Choy, and Napa. California's carrot harvest from the Salinas Valley was fairly light with varying quality. Celery harvest was moderate in Salinas and light from the Santa Maria area. Lettuce volume was light from Salinas and Santa Maria. Huron lettuce harvest was near peak in the Palo Verde Valley.

FRUIT AND NUTS: Rain slowed pecan harvest in the Southeast. In Texas pecan harvest continued in scattered areas, but most areas received too much rain to resume harvesting. Water damaged pecans in some areas. Pecan harvest was active in Arizona. Rain is needed in Florida's citrus areas as growers continue irrigating. Coloring was good on early citrus types. Movement slowed because of Thanksgiving, but is expected to regain rapid momentum. Harvest of early oranges and some grapefruit continued in Texas. Arizona citrus groves were in good condition. Navel and sweet oranges, tangerines, grapefruit, and lemons were picked. California's navel orange harvest progressed with good quality. Rain slowed desert grapefruit, lemon, and tangerine harvests. Deciduous tree pruning, shredding, and spraying were active.

PASTURES AND LIVESTOCK: Pastures were generally good to fair. Moisture promoted growth in the South. Livestock was mostly good. Supplemental feeding was heavy in the Northern States with some producers faced with buying hay or reducing herd size. Cold weather stressed livestock in the north.

CROP PROGRESS

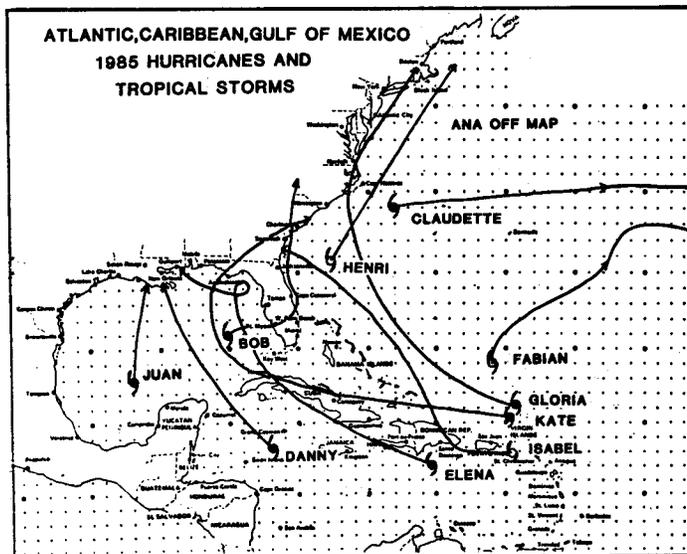
FOR WEEK ENDING DEC 1, 1985

WINTER WHEAT % EMERGED				COTTON % HARVESTED				SORGHUM % HARVESTED				CORN % HARVESTED				SOYBEANS % HARVESTED				
	1985	1984	AVG.		1985	1984	AVG.		1985	1984	AVG.		1985	1984	AVG.		1985	1984	AVG.	
ARK	71	NA	NA	ALA	96	91	94	ARK	100	96	99	COLO	90	92	89	ALA	83	89	92	
CALIF	50	35	44	ARIZ	80	80	80	KANS	95	100	97	GA	100	100	100	ARK	84	73	88	
COLO	98	95	94	ARK	97	82	95	MO	78	93	94	ILL	91	96	99	GA	63	89	85	
GA	41	NA	NA	CALIF	92	97	94	NEBR	99	100	100	IND	83	89	97	ILL	96	93	99	
IDAHO	100	100	100	GA	89	93	93	OKLA	95	95	90	IOWA	91	99	99	IND	94	94	100	
ILL	95	86	96	LA	99	88	95	S DAK	96	100	100	KANS	98	100	98	IOWA	99	99	100	
IND	100	82	100	MISS	97	80	94	TEX	96	97	99	KY	91	91	98	KANS	85	96	96	
KANS	90	95	95	MO	94	89	97	7 STATES	94	98	98	MICH	75	98	97	KY	77	81	96	
MICH	100	NA	NA	N MEX	55	65	79	THESE 7 STATES PRODUCED 83% OF THE 1984 SORGHUM CROP.				MO	86	99	96	LA	94	94	95	
MO	88	70	86	N C	80	85	91					NEBR	90	99	98	MICH	90	100	100	
MONT	80	100	100	OKLA	45	50	45					NEBR	82	95	96	MINN	99	99	99	
NEBR	100	100	100	S C	94	96	100					N C	100	100	100	MISS	88	76	90	
OHIO	100	99	100	TENN	90	78	90					OHIO	82	85	95	MO	65	89	95	
OKLA	90	90	85	TEX	55	50	63					PA	76	81	93	NEBR	98	100	100	
OREG	90	91	96	14 STATES	73	69	77					S DAK	69	100	99	N C	37	79	72	
S DAK	100	100	100	THESE 14 STATES PRODUCED 100% OF THE 1984 COTTON CROP.								TEX	100	100	100	OHIO	98	96	99	
TEX	82	91	89									WIS	70	93	90	S C	38	76	62	
WASH	96	100	100									17 STATES	87	96	97	S DAK	100	100	100	
18 STATES	89	NA	NA									THESE 17 STATES PRODUCED 93% OF THE 1984 CORN CROP.				TENN	83	72	88	
EXCL. STATES WITH NA	90	92	93										19 STATES	87	91	95	THESE 19 STATES PRODUCED 94% OF THE 1984 SOYBEAN CROP.			

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

NA - NOT AVAILABLE

1985 Hurricanes and Tropical Storms



An extraordinary number of tropical cyclones struck the United States during the 1985 hurricane season. Eleven named tropical cyclones occurred in the 1985 Atlantic-Caribbean hurricane season. Eight of these storms, six of which were hurricanes, affected the United States. Although the total number of storms was a little more than average, the number of storms hitting the United States was unusual. There were 146 fatalities in Puerto Rico, the United States, and Cuba and several billion dollars in damages.

The first tropical storm of the season was Ana which formed in mid-July and moved inland over Newfoundland. The first hurricane was Bob which moved across South Florida and into South Carolina during late July. Bob caused minimal damage to crops and helped replenish soil moisture.

In mid-August, Hurricane Claudette remained at sea and Hurricane Danny moved over Louisiana killing three people and causing lodging of most crops with rice the worst affected.

An early September, Hurricane Elena flooded the Gulf coast from west Florida to Mississippi. Four people were killed and some crops were damaged, particularly the open cotton. Tropical Storm Fabian remained at sea during mid-September. September 2, Hurricane Gloria struck the outer banks of North Carolina and moved over Long Island and into New England. Eleven deaths were reported. Tropical Storm Henri preceded Gloria up the coast but remained at sea bringing rain to the northeast.

Tropical Storm Isabel formed from a disorganized rain area which caused over 100 deaths in Puerto Rico in early October. Isabel then hit the Georgia coast with minimal damage. Hurricane Juan, in late October, stalled for several days near the Louisiana coast before moving inland. Twelve deaths were reported, sugarcane was lodged, fieldwork was stopped because of flooding, and some unharvested crops were lost.

Finally, Kate, an unusually late season hurricane, ravished the northern coast of Cuba, moved into the Gulf, and hit the Florida panhandle on November 21. Ten people died in Cuba with extensive crop damage, particularly sugarcane, and six people in the United States lost their lives from Kate.

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 1.00 to 2.00 in. Total totals between 3.00 and 4.00 in. Temperatures averaged 10 to 15° above normal.

Fieldwork 4.0 days. Soil moisture 10% short, 75% adequate, 15% surplus. Soybeans harvested 83%, 1984, 92% avg. Cotton harvested 96%, 91% 1984, 94% avg. Winter wheat planted 79%, 80% 1984, 88% avg.; 45% fair, 48% good, 7% excellent. Pastures 7% poor, 42% fair, 46% good, 5% excellent. Livestock 32% fair, 63% good, 5% excellent. Primary activities: Harvesting cotton, soybeans, pecans; pruning fruit trees; planting winter wheat; topdressing winter forage crops; routine care of livestock, poultry.

ARIZONA: Winter storm 25th, 26th with snow level down to 6,000 ft. Another storm moved across State 29th, 30th with snow level again down to 6,000 ft. Snowfall from two storms 5 to 15 in. over northern part State. Moisture amounts 0.50 to 1.50 in. except 1.50 to 3.50 in. over Grand Canyon, Mogollon Rim, central Basin. Average temperatures from 20° below to 70° above seasonal normals.

Cotton harvested 80%, 81% 1984, 80% avg. Cotton harvest slowed by storms. Stalk shredding, plowdown took place. Wheat, barley planting continued, 15% seeded Statewide. Established stands good. Alfalfa fair to good. Cutting for hay seasonally slow; sheep grazing light to moderate. Corn harvest southeast completed, yet to begin west. Sorghum combining continued. Lemons, grapefruit, tangerines, Navel and sweet oranges picked. Groves good condition. Apple shipping continued. Pecan harvest continued. Lettuce harvested active. Western State; Romaine and Leaf lettuce, cauliflower, broccoli, Bok Choy, and napa harvested. Central State: Lettuce, mixed vegetable, and melon harvests seasonally active. Good grazing and soil moisture conditions around State. Cattle good, sheep fair to good. Stockwater supplies adequate. Light insect damage statewide.

ARKANSAS: Temperatures 30° below to 90° above normal. Unseasonably warm beginning of week. Cold front drove temperatures below normal and brought first snows of season. Rainfall spread throughout week over entire State. Temperature extremes 20°; 80°. Precipitation 0.85 to 6.22 in.

Days suitable for fieldwork 2.0. Soil moisture 12% adequate, 88% surplus. Cotton 97% harvested, 82% 1984, 95% avg. Winter wheat 71% emerged; 10% poor, 1% fair, 88% good, 1% excellent. Sorghum 100% harvested, 96% 1984, 99% avg. Soybeans 84% harvested, 73% 1984, 88% avg.

CALIFORNIA: Temperatures near to below normal, while significant amounts of precipitation recorded throughout State. Heavier weekly totals of precipitation included over 6.00 in. Blue Canyon; over 5.00 in. Huntington Lake, Oxnard. Temperatures ranged from a low of -6° recorded Alturas to a high of 75° Blythe.

Rains delayed cotton harvest. Cotton 92% harvested, 97% 1984, 94% avg. Shredding, discing cotton fields continued. Preparation of fields for small grain plantings continued but delayed by wet conditions. Winter wheat 50% emerged, 35% 1984, 44% avg. Good stands being reported in Tulare County. Harvesting of corn, grain sorghum, sugarbeets virtually complete. Safflower fields seeded. Sheeping off alfalfa fields continued.

Avocado harvest continued, strong demand. Grape shipments from cold storage increased but still light. Kiwifruit packed and moved to export markets. Deciduous tree pruning, shredding, spraying continued. Navel orange harvest progressed with increased exports. Maturity, quality good. Desert grapefruit, lemon, tangerine harvests continued but slowed by rains. Artichoke moderate quality continued improve central coast. Broccoli marketing both Salinas, Santa Maria variable quality. Harvest for cantaloupe, honeydew winding down fair quality Imperial Valley - Palo Verde Valley, most shippers finished. Carrots fairly light Salinas varying quality. Cauliflower light both Salinas, Santa Maria variable quality. Few Salinas shippers finished. Celery moderate Salinas, fairly light Santa Maria variable quality. Some Salinas shippers, few Santa Maria shippers finished. Lettuce very light variable weight and quality Salinas, Santa Maria. Huron lettuce harvest finished. Harvest Palo Verde Valley near peak. Very light green peppers Santa Maria variable quality. Sweetpotato hot bed preparation completed San Joaquin Valley. Range conditions continued improve with additional moisture received. Cool, temperatures slowed grass growth. Supplemental feeding continued heavy many districts. Calving, lambing active. Sheeping off harvested fields continues San Joaquin Valley.

COLORADO: Rain, snow showers common in mountains and west on 25th. Snow amounts up to 17 in. recorded in some southwestern mountains with little precipitation lower elevations. Period 26th, 28th mostly dry, but 29th through 1st another 6 in. to 2 feet of new snow in parts of southwestern mountains. Around 0.25 in. of moisture feel at lower elevations in west. Little precipitation reported east of Continental Divide. Temperatures San Luis Valley, west of Continental Divide 50° above normal. Stations east mostly 10° below normal.

Winter wheat emerged 98%, 95% 1984, 94% avg. Corn harvested 90%, 92% 1984, 89% avg.

FLORIDA: Temperatures unseasonably warm. Few daily, spotty showers except for heavier rain amounts around 1.00 to 2.00 in. Panhandle, northwest.

Soil moisture adequate Panhandle, southern Peninsula but short central, northern interior Peninsula. Soybean harvest continued; quality, yield reduced by hurricane. Cotton harvest winding down, unharvested acreage damage significantly by hurricane. Extended summerlike weather allowed additional hay cutting. Sugarcane harvest in full swing. Growth slowed, insect pressure increased in small grain fields with above normal temperatures. Continued warm temperatures extended forage growth, grazing of permanent pastures. Cooler temperatures, needed to stimulate winter rye pastures, slow insect infestations some areas. More rain needed parts of Upper Peninsula. Grazing rated fair to good except for Lake Okechobee south, conditions generally good to excellent. Cattle fair to good, Panhandle, northern Peninsula; mostly good elsewhere. Citrus groves good. Rain needed; growers irrigating. Early citrus types good on-tree coloring. Movement slowed because of Thanksgiving, but expected to regain momentum rapidly. Near ideal weather conditions vegetable areas. Above normal temperatures prevailed with

daytime highs in mid to upper 80s, nighttime lows in 70s. Very little rainfall but moisture conditions remain adequate. Harvest; planting very active, all fall season nears completion some crops. Planting of winter, spring crops underway. Good volume continued snap beans, sweet corn, cucumbers, celery, eggplant, green peppers, radishes, squash, tomatoes. Supplies gaining for cabbage, carrots, escarole, lettuce.

GEORGIA: Temperatures 15 to 20° above normal. Most central and south reported at least one day of temperatures above 80°. However, a strong cold front moved into State late weekend dropping temperatures to near freezing over northwest 25th morning, 2nd. Rainfall totals 2.00 to 4.00 in. north and west, 1.00 to 3.00 in. southeast. Few areas southeast State reported less than 1.00 in. of rain.

Days suitable for fieldwork 2.9. Soil moisture 4% short, 58% adequate, 38% surplus. Main activities: Harvesting cotton, soybeans, grain sorghum and pecans; planting small grains as weather permitted. Corn 100% harvested, 100% 1984, 100% avg. Cotton 89% harvested, 93% 1984, 93% avg.; 6% very poor, 22% poor, 40% fair, 28% good, 4% excellent. Grain sorghum 93% harvested; 4% very poor, 12% poor, 49% fair, 35% good. Soybeans 63% harvested, 89% 1984, 85% avg.; 6% very poor, 19% poor, 55% fair, 20% good. Wheat 56% planted, 72% 1984, 80% avg.; 41% emerged, 1% very poor, 1% poor, 24% fair, 73% good, 1% excellent. Rye 84% planted, 91% 1984, 93% avg.; 1% very poor, 26% fair, 70% good, 3% excellent. Other small grains 76% planted, 86% 1984, 90% avg. Pecans 72% harvested, 71% 1984, 72% avg.; 5% very poor, 9% poor, 48% fair, 3% good. Pastures 2% poor, 36% fair, 60% good, 2% excellent. Cattle 1% poor, 22% fair, 75% good, 2% excellent. Hogs 24% fair, 74% good, 2% excellent.

HAWAII: Showers, gusty winds cool temperatures slowed crop progress. Cloudiness, some rainfall beginning of week as a band of showers passed through island. Strong high pressure area far northwest moved southeast over weekend. High wind warning issued for all islands 30th. Gusty winds caused some damage to fruit and vine crops. Field operations, including sugarcane, pineapple slowed in many areas due to constantly wet conditions. Cooler temperatures slowing fruit development of banana, papayas. Vegetable supplies low to moderate.

IDAHO: Temperatures ranged 8 to 30° below normal as Arctic air remained over State. Record low temperatures reported many locations across State. Lowest reported temperature Dixie with 33° below zero. Snowfall over Thanksgiving Holiday reported some of heaviest ever recorded in month of November.

Farm activities at standstill due to severe weather. Feeding necessary 2 to 4 weeks early. Livestock condition remained good, but fall calving and lambing could be adversely affected by harsh weather conditions. Feed supplies adequate thus far.

ILLINOIS: Temperatures 6° above normal to 4° below normal; coolest northwest. Precipitation general, 0.15 to 3.58 in.

Corn harvested for grain 91%, 96% 1984, 99% avg. Soybeans harvested 96%, 93% 1984, 99% avg. Winter wheat emerged 95%, 86% 1984, 96% avg.

INDIANA: Above normal rainfall totaling near 1.00 in. north to 2.50 in. central, south. Temperatures above normal. Lows upper 20s north to mid 30s south. Highs in 40s north to low 50s south.

Fieldwork averaged 0.6 days. Topsoil moisture 3% adequate, 97% surplus. Subsoil moisture 14% adequate, 86% surplus. Corn 83% harvested, 89% 1984, 97% avg. Soybeans 94% combined, 94% 1984, 100% avg. Wheat 100% emerged, 82% 1984, 100% avg. Wheat 23% fair, 70% good, 7% excellent. Wheat stands 16% fair, 74% good, 10% excellent. Spring cropland 37% tilled, 41% 1984, 54% avg.

IOWA: Temperatures 10 to 12° subnormal east to 22° subnormal west. Late week rain east; snow, rain west; became blizzard 30th, 1st. Snowfall to 20 in. locally. Windchills -40°, -50°.

Days suitable for fieldwork 3.5. Topsoil moisture 35% adequate, 65% surplus. Subsoil moisture 3% short, 69% adequate, 28% surplus. Corn harvested 92%, 99% 1984, 99% avg. Soybeans harvested 98%, 99% 1984, 100% avg. Fall tillage completed 20%. Fertilizer application completed 15%. Livestock good.

KANSAS: Precipitation averaged 0.10 to 0.20 in. Major winter storm with ice and 1 to 2 in. snow, accumulation of 4 to 7 in. some areas. Temperatures averaged 16 to 18° northwest, 30° southeast, 21 to 23° elsewhere; 10° below normal southeast, 16 to 20° below normal elsewhere.

Days suitable for fieldwork 2.5. Topsoil moisture 9% short, 55% adequate, 36% surplus. Wheat 90% emerged, 95% 1984, 95% avg.; some may not emerge until spring. Wheat 3% poor, 8% fair, 30% good, 59% excellent. Wheat 15% pasture, 10% 1984, 10% avg. Sorghum 95% harvested, 100% 1984, 97% avg. Soybeans 85% harvested, 96% 1984, 96% avg. Corn 98% harvested 100% 1984, 98% avg. Pastures good. Feed grain, hay and forage supplies adequate west, surplus east. Livestock grazing corn, sorghum stubble.

KENTUCKY: Mild, mean temperatures about 4° above normal. Lows generally mild 40s. Daily Highs mostly 55 to 60°. Lows generally mild 40s. Precipitation above normal, amounts 1.50 in. to locally as much as 3.00 in.

Most soil saturated, flooding lowlands and river bottoms. Harvesting of late row crops continued to be hampered by wet conditions. Corn 91% harvested, 91% 1984, 98% avg. Soybeans 77% harvested, 81% 1984, 96% avg. Some river bottom beans flooded. Some earlier intended wheat acreage will not be seeded. Pastures good, but very wet.

LOUISIANA: Temperatures averaged 7 to 13° above normal. Temperature extremes 34°; 87°. Rain totals averaged 0.60 to 3.00 in.

Days suitable for fieldwork 4.4. Soil moisture 12% short, 46% adequate, 42% surplus. Cotton 99% harvested, 88% 1984, 95% avg. Soybeans 94% harvested, 94% 1984, 95% avg. Pecans 79% harvested, 64% 1984, 61% avg. Sweetpotatoes 94% harvested, 97% 1984, 99% avg. Vegetables fair. Sugarcane 99% planted, 100% 1984, 100% avg.; 62% harvested, 64% 1984, 69% avg. Winter wheat fair; 64% planted, 66% 1984, 83% avg.; 44% emerged, 56% 1984, 71% avg. Pasture fair; livestock fair to good.

MARYLAND & DELAWARE: Maryland: Temperatures mostly 1 to 3° above normal with scattered stations 6 to 9° above normal; lows mid 20s to mid 30s, highs mostly mid 50s to mid 60s. Precipitation averaged 1.30 in., ranging from 0.49 to 3.63 in. extreme west.

Fieldwork 2.1 days suitable. Topsoil moisture mostly adequate to surplus depending on soil type. Subsoil moisture; mostly adequate with scattered areas across State reporting surplus. Corn for grain 98% harvested, 100% 1984, 100% avg. Soybeans 80% harvested, 95% 1984, 95% avg.

Small grains good. Wheat 100% seeded, 100% 1984, 100% avg. Tobacco 35% stripped, 45% 1984.

Delaware: Temperatures normal north to 50 above normal south; lows 30 to 35, highs mid 50s to mid 60s. Precipitation averaged 1.31 in., ranging from 0.90 to 1.77 in.

Fieldwork 2.0 days suitable. Topsoil moisture surplus. Subsoil moisture adequate. Soybeans 70% harvested, 100% 1984, 97% avg. Small grains generally good with some yellowing due to PH problems and some area standing in water.

MICHIGAN: Days suitable for fieldwork 1.5. Rains continued most areas. Before ground could freeze, snow compounded harvesting. Soybeans 90% harvested, 100% 1984, 100% avg. Pods near ground will likely be lost many localities. Corn 75% harvested, 98% 1984, 97% avg. High winds December 1st 2nd probably caused lodging.

MINNESOTA: Extremely cold week; heavy snowfall southern two-thirds. Temperatures averaged 15 to 30° below normal. Temperature extremes -32°; 32°. Precipitation averaged 0.08 to 0.39 in. above normal, northern third; 0.59 to 1.02 in. above normal elsewhere. Snowfall averaged 5 to 9 in. northwest, north central; 13 to 18 in. elsewhere. Snow depths, weeks end; 13 to 21 in.

MISSISSIPPI: Temperatures 8 to 16° above normal. Extremes 44°; 85°. Rainfall widespread 1.00 to 2.00 in. common. Largest amount 3.46 in.

Fieldwork 3.6 days suitable, 2.1 1984, 2.7 avg. Soil moisture 64% adequate, 24% surplus, 12% excessive. Cotton, soybean harvest and wheat seeding advanced. Soybeans 88% harvested, 76% 1984, 90% avg. Cotton 97% harvested, 80% 1984, 94% avg. Pecans 70% harvested, 66% 1984, 68% avg. Winter wheat 70% planted, 59% 1984, 83% avg. Pasture 4% poor, 22% fair, 70% good, 4% excellent. Livestock 100% good.

MISSOURI: Unseasonably cold. Average temperatures ranged 15° below normal to 20° above normal Bootheel. Average precipitation 0.50 to 1.00 in. north, 1.00 to 2.00 in. elsewhere.

Days suitable for fieldwork 0.9. Topsoil moisture 1% short, 7% adequate, 92% surplus. Corn harvested 82%, 95% 1984, 96% avg. Soybeans 65% harvested, 89% 1984, 95% avg. Grain sorghum harvested 78%, 93% 1984, 94% avg. Cotton harvested 94%, 89% 1984, 97% avg. Winter wheat 5% poor, 50% fair, 44% good, 1% excellent. Emerged 88%, 70% 1984, 86% avg. Pasture 6% poor, 29% fair, 59% good, 6% excellent. Fall tillage for spring crops 41% completed.

MONTANA: Continued extremely cold temperatures. Temperatures 20 to 25° below normal west and southwest, from 30 to 40° below normal over Plains. Subzero temperatures daily. Some areas temperatures remained below zero all week. Precipitation moderate to heavy over Plains with snow most days. Across southwest, west precipitation light to moderate. Precipitation averaged about 0.25 in. statewide.

Topsoil moisture supplies 9% short, 91% adequate. Subsoil moisture supplies 34% short, 66% adequate. Winter wheat 87% fair, 13% good. Winter wheat emerged 80%, 100% 1984, 100% avg.; snowcover good. Continued cold weather causing stress on livestock. About 95% of livestock receiving supplemental feed. Hay, roughage for winter feed supplies 75% short, 25% adequate.

NEBRASKA: Cold, wintery. Snow accumulations ranged from 1 to 5 in., 0.25 in. water equivalent common. Temperatures averaged 21 to 35° below normal, generally below freezing.

Fieldwork days 3.9. Topsoil moisture 2% short, 83% adequate, 15% surplus. Subsoil moisture 4% short, 91% adequate, 5% surplus. Winter wheat 12% fair, 74% good, 14% excellent. Wheat emerged 100%, 100% 1984, 100% avg. Corn harvest 90%, 99% 1984, 98% avg. Harvest slow, difficult. Most progress central, east central and southeastern counties. Some reports of field kernel moisture increase. Soybean harvest 98%, 100% 1984, 100% avg.; unchanged for two weeks. Sorghum harvest 99%, 100% 1984, 100% avg. Some reports of lighter test weights resulting from late September frost. Pasture, range feed supplies adequate to short with supplemental feeding in snowcovered areas. Some producers north central counties, Panhandle face decision to sell cows or buy hay. Some concern over early feed stocks usage.

NEVADA: Week started cold, windy with scattered snow showers north and east. Temperatures moderated midweek, rain prevalent most areas except snow higher elevations. Sunny skies end of period temporary as storm fronts brought rain central and northern areas.

Rain, snow, sleet made livestock feeding operations difficult for second consecutive week. Marketing potatoes north slowed by inclement weather.

NEW ENGLAND: Precipitation well below normal throughout Maine, northern Vermont, New Hampshire; 0.05 to 0.50 in. Near to slightly above normal elsewhere; ranging from 0.50 to 2.00 in. Much of precipitation fell as snow central and northern areas. Temperatures averaged 4 to 6° below normal most areas, except 10° below normal northern Maine. Average temperature ranged from 17° northern Maine to 34 to 38° across southern areas.

Chopping wood, tending livestock, moving produce out of storage.

NEW JERSEY: Temperatures near normal, averaging 37° north, 42° south, 46° coastal. Extremes 28°; 59°. Precipitation much above normal, averaging 2.79 in. north, 2.61 in. south, 1.95 in. coastal. Heaviest 24-hour total 1.30 in. 28th, 29th.

Excessive rainfall halted most outdoor work. Fall sown grains have ample moisture.

NEW MEXICO: Average temperatures above normal over west and southeast, near normal over northeast. Temperatures 60° northeastern Plains to 79° southeastern Plains. Snow over north and higher mountain elevations, showers over southwest valley and desert, southeast Plains received only traces. Precipitation none to 1.50 in. northern mountains.

Days suitable for fieldwork 6.7. Soil moisture 36% short, 64% adequate. Freeze damage 27% none, 27% light, 46% moderate. Alfalfa 22% poor, 11% fair, 67% good. Cotton 10% poor, 40% fair, 50% good; 55% harvested, 65% 1984, 79% avg. Corn 27% fair, 64% good, 9% excellent. Barley 18% fair, 73% good, 9% excellent. Irrigated wheat 18% fair, 73% good, 9% excellent. Dryland wheat 33% fair, 50% good, 17% excellent. Irrigated grain sorghum 20% fair, 70% good, 10% excellent. Dryland grain sorghum 33% fair, 50% good, 17% excellent. Pecans 33% fair, 67% good. Chile 14% fair, 86% good. Cattle 8% fair, 84% good, 8% excellent. Sheep 90% good, 10% excellent. Range 38% fair, 54% good, 8% excellent.

NEW YORK: Temperatures averaged near normal. Highs reached low 50s New York City, Long Island, and Jamestown western New York. Low for week was single digits at Ellenburg depot near Canadian Border. Precipitation averaged near or above normal all areas except north country. Northern

areas and less than 0.25 in., elsewhere 0.75 to almost 2.25 in. in southeast sections.

Corn harvest winding down rapidly. Feed supplies plentiful going into winter. Other farm activities for week included tending livestock and routine farm chores.

NORTH CAROLINA: Temperatures 10 to 15° above normal across State. Rainfall ranged from none to 4.02 in.

Days suitable for fieldwork 2.8. Soil moisture 4% short, 26% adequate, 70% surplus. Pasture 2% poor, 19% fair, 79% good. Wheat 22% fair, 76% good, 2% excellent. Oats 16% fair, 79% good, 5% excellent. Barley 19% fair, 81% good. Rye 22% fair, 75% good, 3% excellent. Harvest: Soybeans 37%, 79% 1984, 72% avg. Cotton 80%, 85% 1984, 91% avg. Farm feed supplies: Hay and roughage 2% short, 94% adequate, 4% surplus. Feed grains 2% short, 90% adequate, 8% surplus. Major farm activities: Harvesting soybeans, seeding small grains, fall plowing, picking cotton, preparing tobacco plant beds, grading, stripping and marketing burley tobacco, cutting Christmas trees, tending livestock, conservation work, cutting firewood and general farm maintenance.

NORTH DAKOTA: Snowy, extremely cold. Temperatures averaged 30° below normal across State. Many locations set records for low temperatures. Lowest temperature reported -39° northeast. Highs 19° east central. Precipitation above normal due to snowstorm on 24th, 25th. Storm deposited up to 12 in. on State. Northeast 22 in. of snow on ground at week's end.

Some corn and sunflower still in field with 95%, 93% harvested, respectively. Snowcover judged sufficient to protect winter wheat and rye over 94%, 96% of State, respectively. Alfalfa protected over 99%. Winter wheat 37% fair, 57% good, 6% excellent. Rye 33% fair, 61% good, 6% excellent. Cold, snow stressed livestock. Supplies of hay, forages short western counties. Nearly all livestock receiving supplemental feed, as only 3% of pasture and range land open for grazing.

OHIO: Temperatures averaged 3 to 6° above normal; lows averaged in 30s and highs averaged mid 40s to low 50s. Precipitation above normal; totals between 2.00 and 3.00 in. south, 1.00 and 2.00 in. north. Soil temperatures averaged between 40, 50°.

Days suitable for fieldwork 1.0. Topsoil moisture 4% adequate, 96% surplus. Corn harvested 82%, 85% 1985. 95% avg.; strong winds lodged plants scattered areas over weekend. Soybeans harvested 98%, 96% 1984, 99% avg. Winter wheat 14% fair, 68% good, 18% excellent; emerged 100%, 99% 1984, 100% avg.; standing water may damage crops upon freezing.

OKLAHOMA: Temperatures averaged normal southeast to 12° below normal north central. Precipitation averaged 0.08 in. north central to 3.19 in. southeast.

Days suitable for fieldwork 2.1. Subsoil moisture 100% adequate. Topsoil moisture 40% adequate, 60% surplus. Wheat 90% good, 10% fair. Wheat 90% emerged, 90% 1984, 85% avg. Cold temperatures limited development. Weeds, disease problem north. Sorghum 95% harvested, 95% 1984, 90% avg. Cotton 45% harvested, 50% 1984, 45% avg. Persistently wet fields delayed harvest. Cattle prices up slightly, marketing mostly average. Supplemental feeding southeast.

OREGON: Once again cold, wet statewide. Temperature departures: Western areas averaged 2 to 8° below normal; east extremely cold,

averaged 10 to 20° below normal. One of the coldest November on record. Precipitation mostly as snow; amounts averaged slightly above normal east, near normal to slightly below normal west.

Soil moisture 92% adequate, 8% surplus. Winter wheat 90% emerged, 91% 1984, 96% avg. Eastern fields snowcovered. Some snowcover in west, cold aided weed control. Berry, tree fruit crops threatened by cold, no known damage yet. Few carrots still in ground. Livestock mostly good. Last of cattle moved to winter range.

PENNSYLVANIA: Warm, wet week. Average temperatures 39°, 40° above normal of 35°. Lowest temperature 18°, highest 61°. Average precipitation 2.11 in., 1.38 in. above normal.

Days suitable for fieldwork 1.0. Moisture mostly surplus to adequate. Activities very limited: Hauling manure; harvesting very small amounts of corn and soybeans; grading potatoes; machinery maintenance. Corn for grain 76% harvested, 81% 1984, 97% avg. Soybeans 80% harvested, 98% 1984, 97% avg. Feed obtained from pastures mostly average.

PUERTO RICO: Island average rainfall 0.17 in., 1.07 in. below normal. Highest weekly total 1.34 in. Highest 24-hour total 0.80 in. Temperature averaged about 75 to 76° on coasts, 69 to 72° interior divisions. Mean station temperature ranged from 64 to 79°. Extremes 55°; 89°. Total rainfall 0.17 in. minus 0.17 in.

SOUTH CAROLINA: Unseasonably warm weather with some daily highs established. Temperatures dropped, still remained above normal over weekend. Scattered showers early week, weekend. Rainfall averaged less than 4.00 to 3.00 in.

Days available for fieldwork 1.4. Soil moisture 48% adequate, 52% surplus. Soybeans 5% very poor, 40% poor, 45% fair, 10% good; 38% harvested 76% 1984, 62% avg.; 100% mature. Cotton 1% very poor, 52% poor, 30% fair, 11% good, 6% excellent; 94% harvested, 96% 1984, 100% avg. Barley, rye, winter grazing, livestock good. Oats, wheat, hay, pastures fair to good. Small grain planting considerably behind schedule. Wheat 39% planted, 76% 1984, 83% avg.

SOUTH DAKOTA: Average temperatures ranged 21 to 33° below normal. Extremes -28°; 31°. Blackhills high 46°. Melted precipitation ranged 0.10 in. southeast to over 0.50 in. southwest through northeast. Snowfall 2 to 14 in. Snow depths over State ranged from 2 in. southeast to 27 in. north central.

Days suitable for fieldwork 1.0. No days suitable western half. Topsoil moisture adequate to surplus eastern two-thirds, short to adequate west; 14% short, 69% adequate, 17% surplus. Corn 6% poor, 29% fair, 60% good, 5% excellent. Corn 69% harvested, 100% 1984, 99% avg. Winter wheat 18% fair, 61% good, 21% excellent. Winter wheat 100% emerged, 100% 1984, 100% avg. Sorghum 3% very poor, 4% poor, 25% fair, 61% good, 7% excellent. Sorghum 96% harvested, 100% 1984, 100% avg. Soybeans 100% harvested, 100% 1984, 100% avg. Livestock fair west, good elsewhere. Feed and stockwater supplies short west, adequate to short central, adequate east. Full feeding continued. Stubble utilized where possible with supplemental feeding. Snow, bitterly cold temperatures causing stress for livestock. Some concern about feed supplies holding out for entire winter.

TENNESSEE: Temperatures averaged 10 to 20° above normal. Widespread heavy rainfall averaged 2.00 to 4.00 in.

Soybeans 83% harvested, 72% 1984, 88% avg. Cotton 90% harvested, 78% 1984, 90% avg.

TEXAS: Moist Gulf air overran cooler air High Plains, west Central. Upper air disturbance crossed north; triggered more heavy rains, saturated areas, left standing water some areas north, south. Warming trend continued through week in all but High Plains. Occasional showers as moist air streamed toward cooler air mass. Arctic air plunged southward weekend. Dramatic changes in temperatures north 30th, 1st. Heavy thunderstorms accompanied leading edge cold air; late on 1st, dry air dominated State, generally clear skies. Temperatures below normal High Plains, west central, western half north, east, south temperatures above normal. Overrunning most State above normal rainfall totals. Parts High Plains slightly drier than usual.

Crops: Cotton 97% open bolls, 95% 1984, 90% avg.; 55% harvested, 50% 1984, 63% avg. Cotton 2% poor, 49% fair, 45% good, 4% excellent. Harvesting across Plains, Cross Timbers good progress despite damp, humid conditions. Some areas Low Plains, measurable rainfall halted harvesting. Yields remained good. Activities should pick up next week after passage cold front, hard freeze entire area. Sorghum 96% harvested, 97% 1984, 99% avg. Harvesting good progress Plains. Many producers completed final harvesting. Activities move quickly after clear, cold weather moved in late week. Wheat 93% planted, 98% 1984, 96% avg.; 82% emerged, 91% 1984, 89% avg. Wheat 24% poor, 54% good, 22% excellent. Small grains good to excellent condition. Growth slow Plains because cold temperatures. Growth other areas also affected as cold weather passed through State. Some planting behind harvested cotton fields Plains. Greenbugs problem Cross Timbers southward. Spraying underway some areas. Most wheat fields provide good grazing. Some fields central areas damaged by standing water after heavy rains moved through area. Peanuts 66% harvested, 84% 1984, 88% avg. Harvesting little progress major producing areas because wet conditions. Yields fair, quality generally down. Humid conditions hampered activities where ground conditions dry enough for harvesting. Losses could be severe where heavy rains fell early last week. Soybeans 69% harvested, 91% 1984, 89% avg. Harvesting progress Plains, again slow along Upper Coast because additional rainfall. Quality poor along coast because prolonged wetness. **Other Field Crops:** Sugarbeets 75% harvested, 95% 1984, 88% avg. Harvest good progress High Plains, but well behind schedule. Sunflowers 86% harvested, 82% 1984, 92% avg. Oats 82% planted, 99% 1984, 96% avg. Sugarcane harvested continued Valley, excellent quality cane, good yields.

Commercial Vegetables: Rio Grande Valley, harvest peppers, cabbage, broccoli, tomatoes continued. Onion planting continued. Harvest early oranges, some grapefruit continued. San Antonio - Winter Garden, damp conditions hampering harvest activities some spinach harvest attempted. East, some remaining vegetable hurt by continued rain. Cold temperatures also affect remaining acreage. Sweetpotato harvest virtually complete. Trans-Pecos, harvest chilies, bell peppers continued slow pace. Pecans 42% harvested, 62% 1984, 56% avg. Pecan harvest continued scattered areas, most areas received too much rain to resume harvesting. Reports damage from too much water. Quality, prices generally good.

Range and Livestock: Recent cold weather affected range conditions; most producers feel going into winter with ranges, pastures in good shape. Pastures green and growing. Small grains providing good grazing. Cattle, lambs good condition. Stocker calves increasing many areas because good grazing. Prices improving some areas.

UTAH: Maximum temperatures 2 to 6° below normal except for Uinta Basin, southeast normal. Minimum temperatures 4 to 7° above normal except for north central and northern mountain divisions 40; 10 below normal, respectively. Precipitation light Uinta Basin, moderate to heavy elsewhere.

Caring for livestock, marketing of crops and livestock major activities.

VIRGINIA: Clear, cool, windy first half of period. Wet, damp last half with moderating temperatures. Temperatures averaged 10° above normal. Rain varied from 0.15 to over 2.00 in. Least rain in southeast.

Days suitable for fieldwork averaged 1.5. Topsoil moisture 41% adequate, 59% surplus. Wet weather still delaying fieldwork. Corn 93% harvested, 94% 1984, 95% avg. Soybeans 57% harvested, 84% 1984, 84% avg. Soybean yields and quality declining by day as wet weather continues. Wheat 80% seeded, 91% 1984, 92% avg. Grading, curing barley, sun-cured, and dark fire-cured tobacco. Livestock, pastures, winter grains mostly excellent.

WASHINGTON: Continued record low temperatures, snow throughout week.

Days suitable for fieldwork less than 1.0. Soil moisture 100% adequate. Range, pasture 17% short, 83% adequate. Hay supplies 17% short, 83% adequate. Winter wheat 96% emerged, 100% 1984, 100% avg. Good snowcover for winter wheat. Fruit tree pruning minimal.

WEST VIRGINIA: Temperatures averaged above normal. Low 29° at Terra Alta, high 73° Charleston and Williamson. Average temperature for State 49°. Average rainfall for each division shows 1.02 in. above normal, northeast division ranging upward to 2.24 in. central division. Greatest total 4.18 in. at Terra Alta. Average precipitation 2.66.

Days worked averaged 2.0. Soil moisture surplus. Corn 95% harvested. Feed supplies adequate.

WISCONSIN: Average temperatures below normal. Precipitation mostly in form of rain, snow. Snowcover from 1 to 24 in. all areas except far southeast.

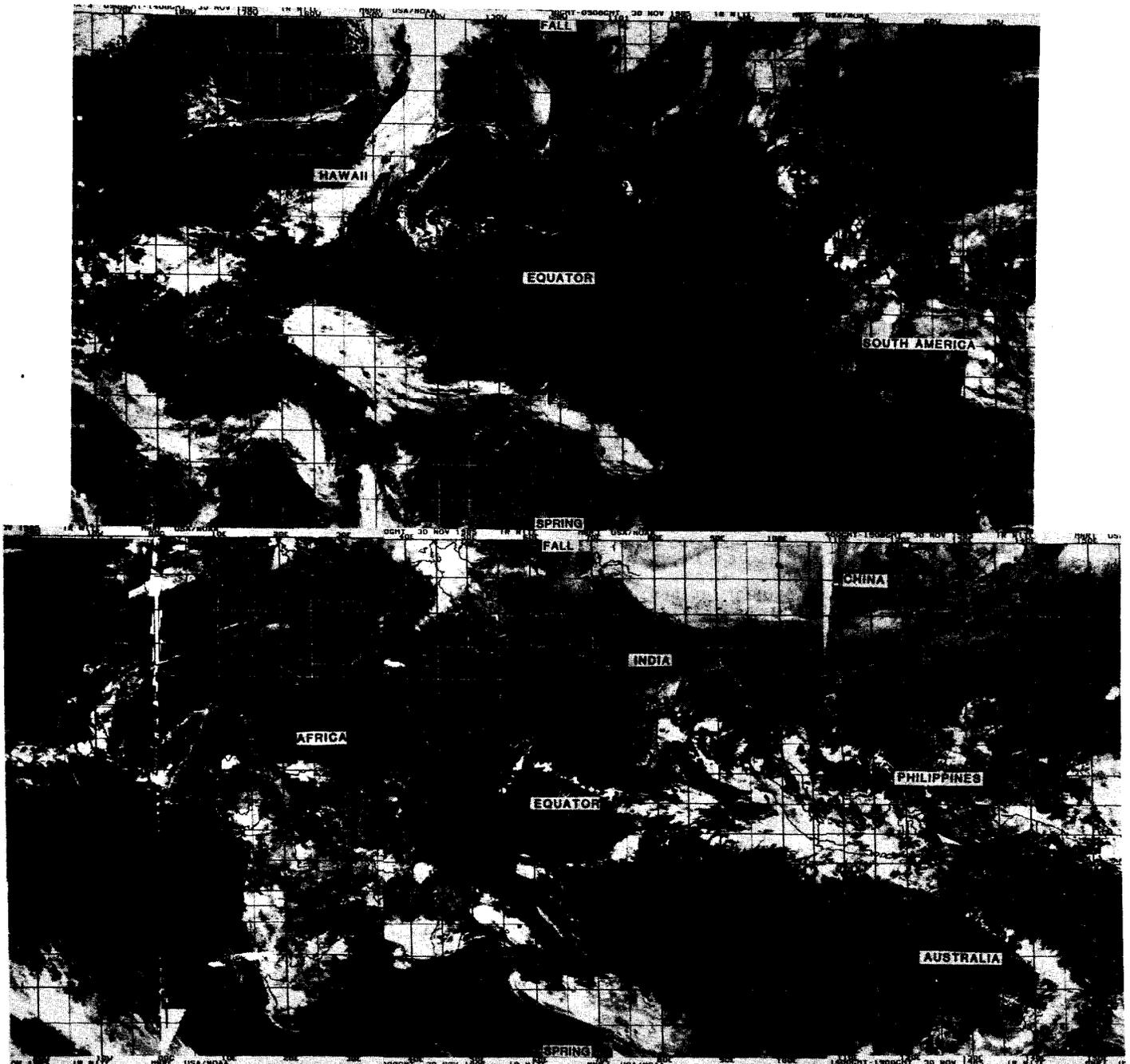
Days suitable for fieldwork 2.5. Soil moisture 5% adequate, 95% surplus; fields snowcovered, some frozen. Corn harvested 70%, 93% 1984, 90% avg. Soybeans harvested 78%, 98% 1984, 95% avg.

WYOMING: Temperatures well below normal. Precipitation mostly above normal.

Winter wheat mostly good. Snowcover most areas. Most corn for grain harvested. Livestock fair to good. Bitter cold weather, snowcover increasing supplemental feeding. Hay supplies short some areas.

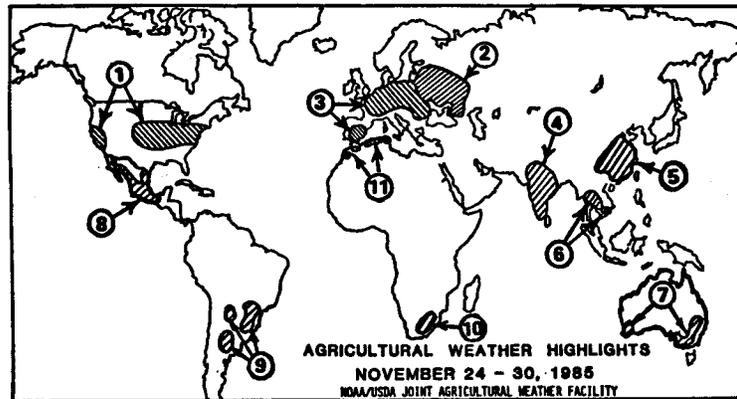
GLOBAL WEATHER SATELLITE IMAGE

November 30, 1985



International Weather and Crop Summary

November 24-30, 1985

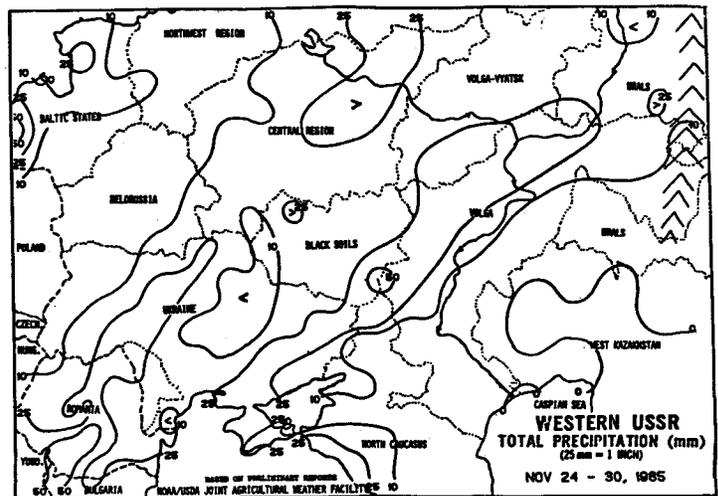


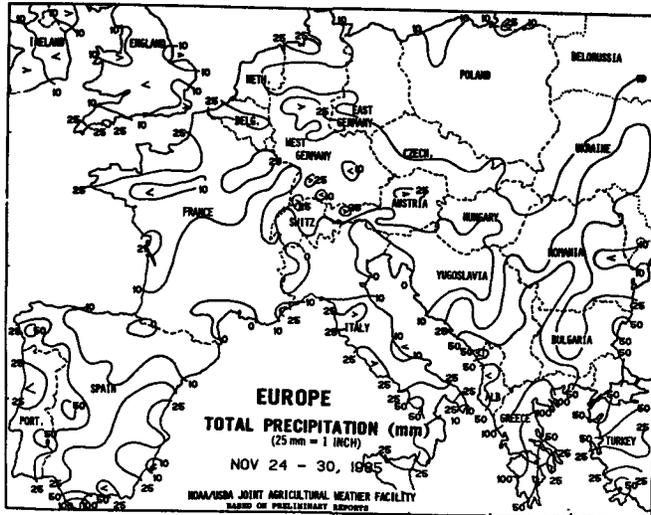
HIGHLIGHTS.

1. **UNITED STATES** ... Cold, snowy, and wet weather holds harvest to almost a standstill in the eastern half of the Nation. Rain slows cotton harvest in the West.
2. **WESTERN USSR** ... Temperatures moderate but remain below normal. Snow covers most winter grain areas except those in the southeast where rain occurred.
3. **EUROPE** ... A slow warming trend occurred over the region. Widespread showers in Spain improves moisture conditions for winter grain planting but cold weather slows germination.
4. **SOUTH ASIA** ... Seasonally dry weather covers the region.
5. **EASTERN ASIA** ... Dry, seasonable cold weather covers the North China Plain winter wheat area while showers ease dryness in southern China's Fujian rice area.

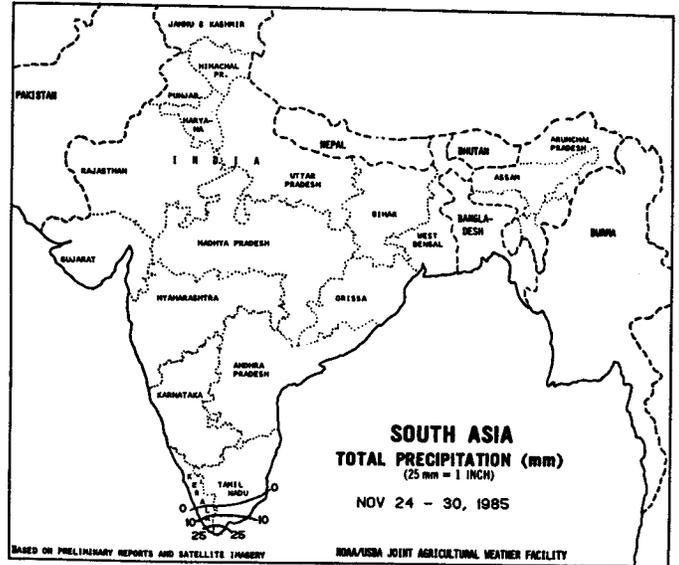
6. **SOUTHEAST ASIA** ... Seasonable dry weather covers Thailand while tropical storm Gordon produces heavy rain over south-central Vietnam.
7. **AUSTRALIA** ... Some rain falls on maturing wheat in nearly all crop areas.
8. **MEXICO** ... Light showers favor winter wheat growth in the northwest but slow tropical crop harvesting along the east coast.
9. **SOUTH AMERICA** ... In Argentina, drier weather improves field conditions for maturing wheat and summer crop planting. In Brazil, dryness returns to southern soybean areas, but beneficial rain falls in the north.
10. **SOUTH AFRICA** ... Rain breaks the 3-week dry spell in the Maize Triangle, but showers were light in the south.
11. **NORTHWESTERN AFRICA** ... Showers increase moisture for winter grain planting.

WESTERN USSR...Temperatures moderated over the region but remained below normal in most areas, except in the southeast, where above-normal temperatures occurred. Three storm systems moved northeastward from the Black Sea, through the eastern Ukraine and Volga, and into the northern Urals, producing significant amounts of precipitation (25-50mm). Snow fell over the northern two-thirds of the region while rain fell in the southern Ukraine and North Caucasus. Weekly temperatures remained low enough to keep winter grains dormant in most areas.

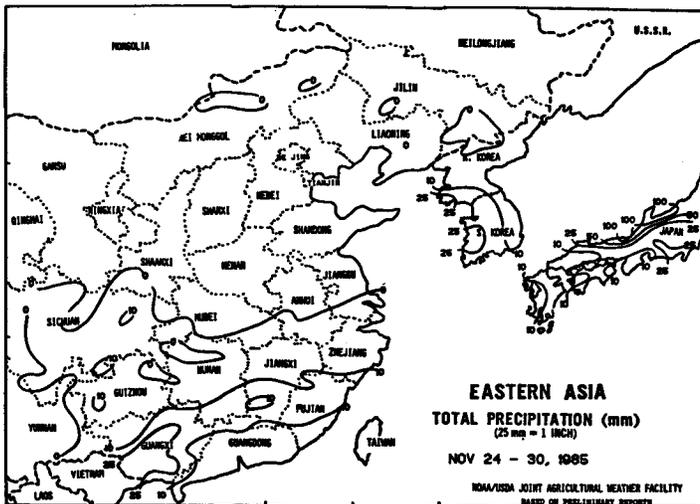




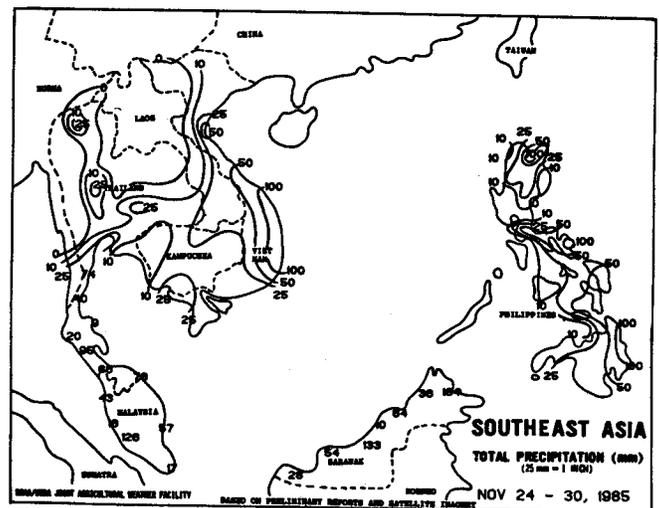
EUROPE... A slow warming trend occurred over the region. Late-week rain (10-25mm) covered winter wheat areas in northern France, increasing moisture supplies. Rain and snow covered winter grains in West Germany, while light snow covered crops in Poland. Early-week rain in Hungary, Romania, Bulgaria, and Yugoslavia produced moderate amounts of precipitation (20-60mm). Weekly temperatures were low enough in most areas to keep winter grains dormant, except in Mediterranean areas. Beneficial showers (25-50mm) in Spain improved moisture conditions for winter grain planting. However, weekly temperatures in Spain were below normal, and warmer weather is needed for seed germination.



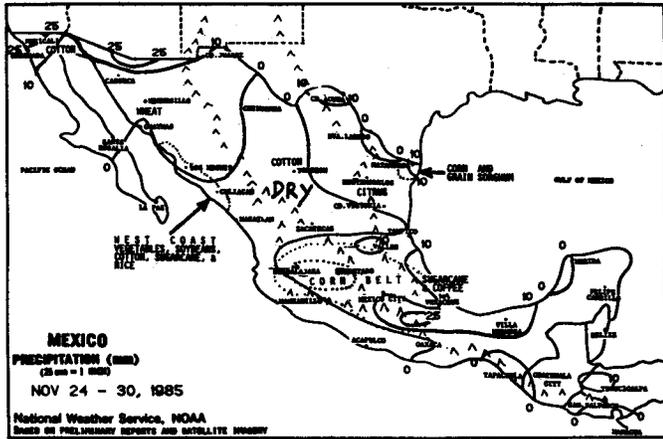
SOUTH ASIA... Seasonally dry weather covered nearly all of India. The dry weather favored harvesting and allowed further drying of flooded areas in the south. Wheat has adequate moisture in the north. Rainfall normally begins in January across in the northern wheat belt.



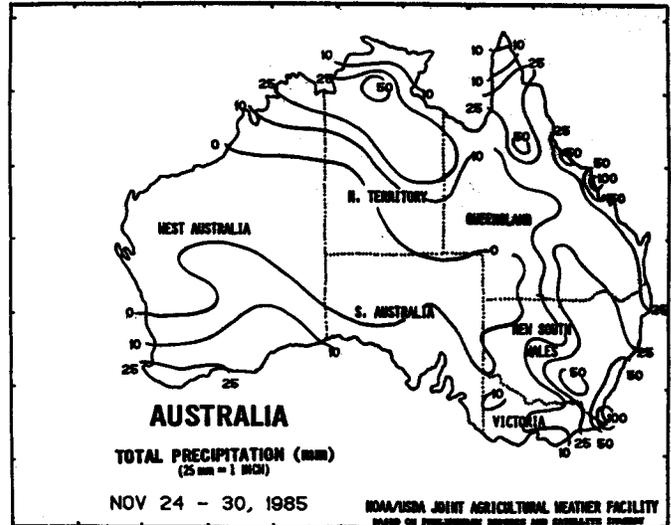
EASTERN ASIA... Mostly dry weather covered the North China Plain. Winter wheat normally enters dormancy around Hebei during late November. Weekly temperatures averaged near normal for the week as cooler weather moved into the region during the latter half of the week. Late planted wheat benefited from relatively mild weather during the previous 2 weeks. Moisture is generally adequate over most of the wheat region. Some rain (5-30mm) fell over southern China, slowing the rice harvest but easing the persistent dryness over Fujian. Minimal rain (1-5mm) fell along the Yangtze Valley.



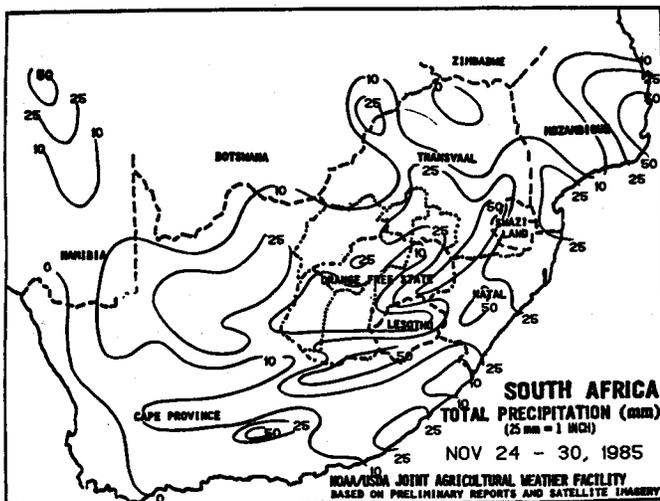
SOUTHEAST ASIA... Seasonable dry weather prevailed over most of Thailand and Laos. Tropical showers generally produced near average weekly rainfall over peninsula Thailand, Malaysia, and Indonesia. Tropical storm Gordon brought locally heavy rain (100-150mm), and probably some flooding, to coastal areas of south-central Vietnam. In the Philippines, daily showers and thunderstorms occurred throughout the islands. The heaviest rain fell along the eastern (windward) side, with weekly totals generally averaging 30 to 70mm and isolated amounts averaging 100 to 175mm.



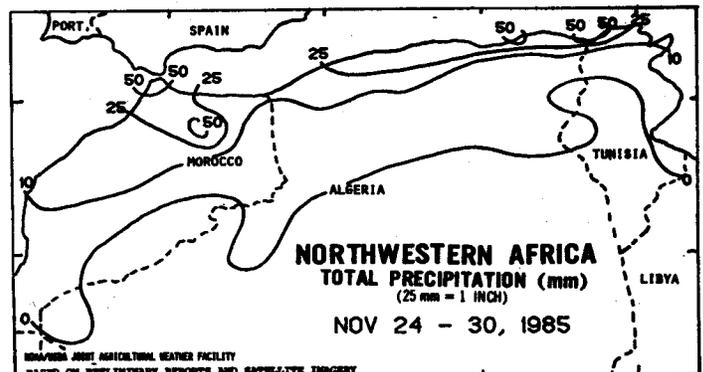
MEXICO...Light showers fell in the northwest, providing a little moisture for winter wheat growth. Mostly light rain also fell over the Southern Plateau corn belt, with weekly amounts generally averaging less than 5mm. Locally heavier showers (10-29mm) occurred along the east coast from Tampico to the western edge of the Yucatan peninsula. Some temporary harvest delays likely occurred, especially for the tropical crops along the east coast. The moisture benefited corn growth in the south. Generally dry weather along the west coast favored autumn vegetable and late soybean harvesting.



AUSTRALIA...Some rain fell over most wheat areas, except northern areas of Western Australia where dry weather prevailed throughout the week. A storm brushed the south coast of Western Australia, producing 10-25mm in southern wheat areas. Light showers (less than 5mm) occurred in South Australia's wheat area, but heavier rain (10-58mm) fell over Victoria, New South Wales, and Queensland. The wetness slowed wheat harvesting in the east but favored summer crop growth. Wheat is maturing across the wheat belt. Locally heavy tropical showers fell along Queensland's east coast sugarcane area.



SOUTH AFRICA...Scattered showers by midweek broke a 3-week dry period in the Maize Triangle. Substantial rain (20-57mm) was very timely for early corn growth across much of the southern Transvaal and the northern Orange Free State. Much of the western Maize Triangle had not received significant rain since early November. Earlier hot weather increased the emerging crop's moisture demand while topsoils were becoming too dry. Cooler weather accompanied the recent showers, improving growing conditions. Rainfall was still light (less than 10mm) in the southern Maize Triangle. Thus, overall moisture remains limited, with seasonable warm summer weather increasing the rate of evapotranspiration.



NORTHWESTERN AFRICA...Widespread showers (10 to 25mm) covered winter grains in western Morocco, northwestern Algeria, and extreme northern Tunisia, increasing topsoil moisture for planting. Light, spotty showers covered southern winter grain areas in eastern Algeria and Tunisia. Normally, winter grain planting is well underway in most areas. Southern most crop areas in Tunisia received little, if any, rain since October and moisture conditions are insufficient for planting.

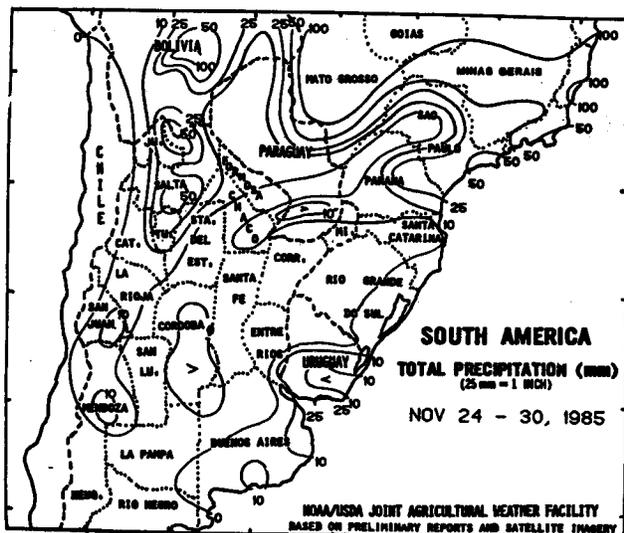
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SOUTH AMERICA...In Argentina, drier weather over all crop areas helped alleviate excess wetness in the winter wheat and summer crop areas. Light showers (less than 10mm) fell over Cordoba and the southeastern half of Buenos Aires while dry weather covered the remainder of Buenos Aires and Santa Fe. Wheat is maturing across the grain belt. Field conditions improved for summer crop planting and establishment. Dry weather returned to southern Brazil where moisture is limited for soybean planting. Last week's rain and generally cooler weather helped planting in Rio Grande do Sul, but more rain is needed for crop establishment and growth. Beneficial rain fell over Mato Grosso do Sul, Goias, and Minas Gerias, helping to improve soybean conditions and late coffee flowering. Minimal rain fell in western Parana, where moisture is limited for emerging crops.

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