

# 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

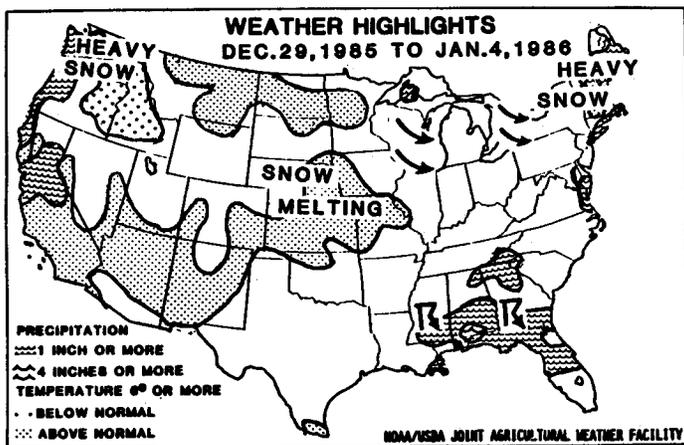
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## National Weather Summary

December 29, 1985 to January 4, 1986



**HIGHLIGHTS:** The Nation was much warmer than the previous week. Parts of the Great Lakes region, the southern Appalachians, and the Tennessee Valley were slightly colder than normal, but the northern Plateau region remained much colder than normal. Snow cover receded in the Plains to the Dakotas and Iowa and through the mid-West to the edge of the Great Lakes. Heavy snow fell from New York through New England. Rainshowers fell from the lower Mississippi Valley to eastern Kentucky and along the east coast through New England. Thunderstorms produced some heavy rain in the Southeast. Rain was moderate to heavy along much of the west coast, but snow fell east of the Cascades.

**SUNDAY...**Light snow persisted from the eastern Great Lakes to the Appalachians from Pennsylvania to western New England. Very light snow also fell from western Montana to interior Washington. Rain covered most of California and some freezing rain spread over Nevada. Warmer weather covered the Southeast, but frigid, arctic air remained over the northern Plains and Great Lakes States.

**MONDAY...**Early-morning temperatures were below freezing as far south as northern Florida and central Louisiana. Readings in the single digits were common in the lower Great Lakes States. However, temperatures soared during the day and mild weather covered most of the Nation. Light rainshowers in central California spread eastward to the central Rockies. Light showers also fell from southern Louisiana to eastern Kentucky.

**TUESDAY...**Cold weather persisted east of the Appalachians in the early morning, but warmer air pushing northward triggered showers from the Gulf of Mexico to southern New England. Thunderstorms

and a few tornadoes were in the Southeast. Rain fell along the Northwest Coast, and snow fell inland to the northern Rockies and from the Dakotas through the Great Lakes.

**WEDNESDAY...**Light rain fell along the Pacific Coast while high winds accompanied snow east of the northern Cascades into the northern Plains. Light snow continued through the Great Lakes to the Appalachians. A few showers fell in southern Texas and some heavy thunderstorms developed in Florida.

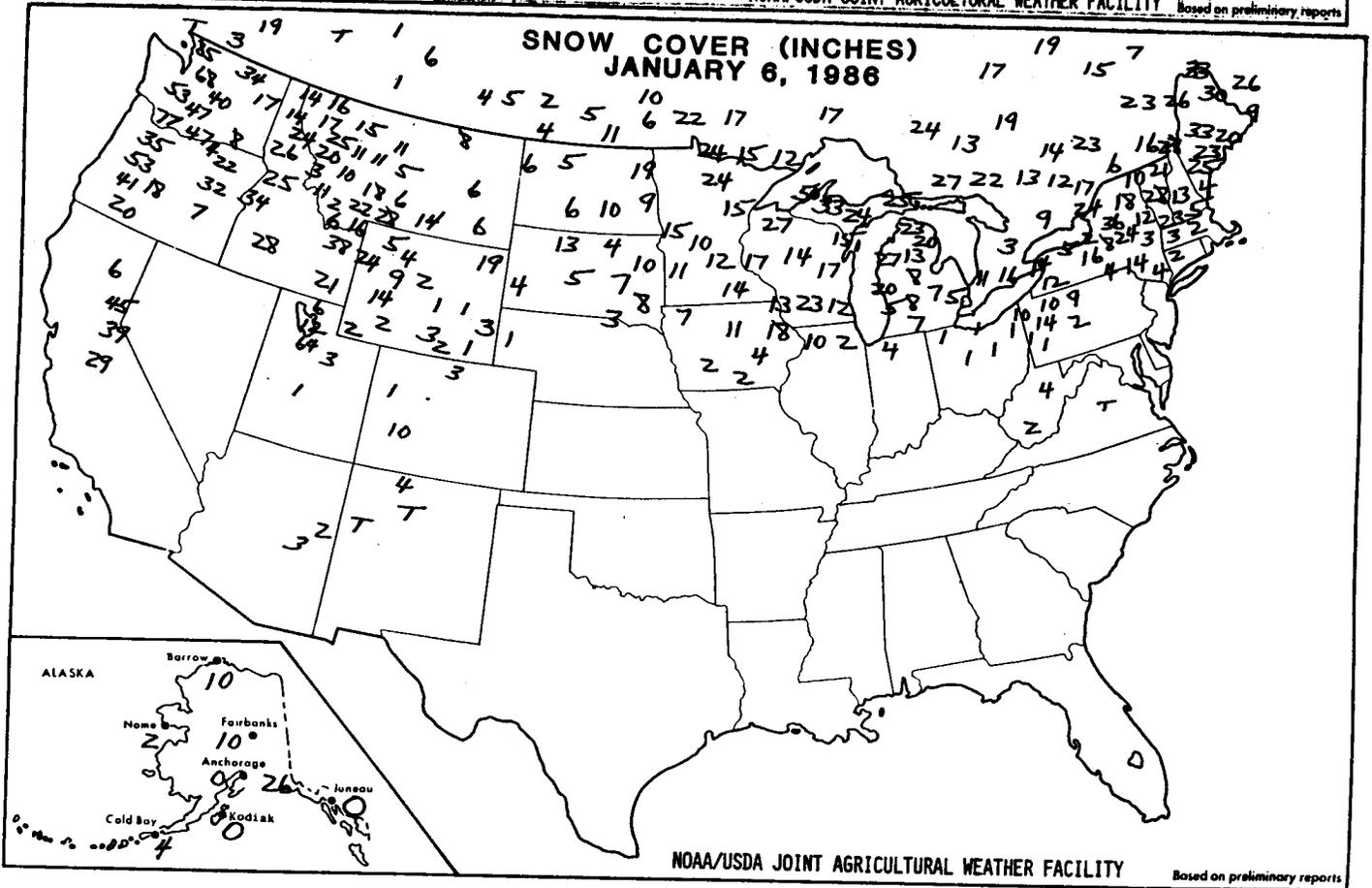
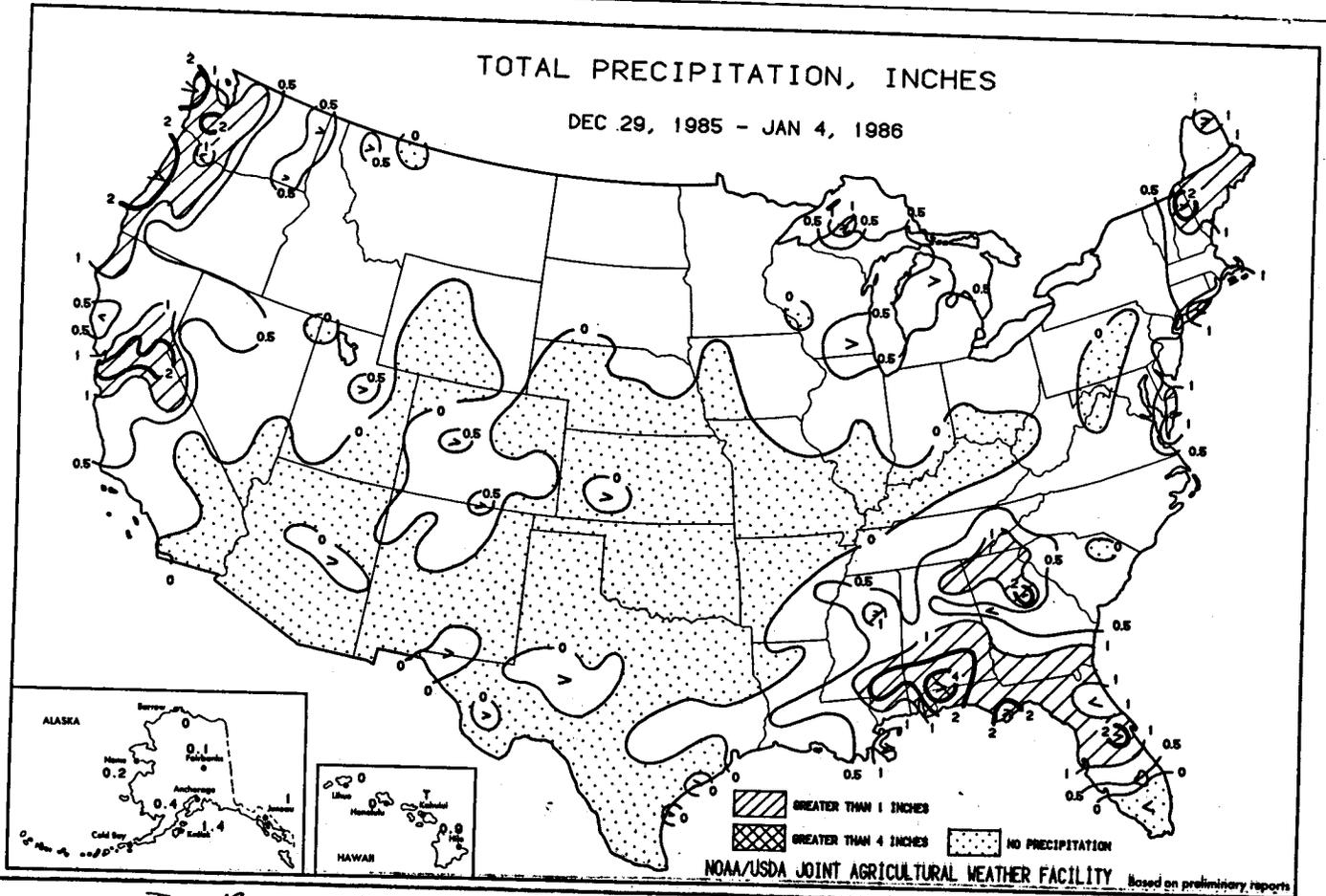
**THURSDAY...**A storm system in the mid-West brought gusty winds and snow that reached from the Dakotas and Nebraska through the Great Lakes and lower Lakes States. Scattered light rain fell in the East Coast States to Maryland and along the coast through New England. Heavy rain fell along the Northwest Coast with heavy snow east of the Cascades to the northern Rockies.

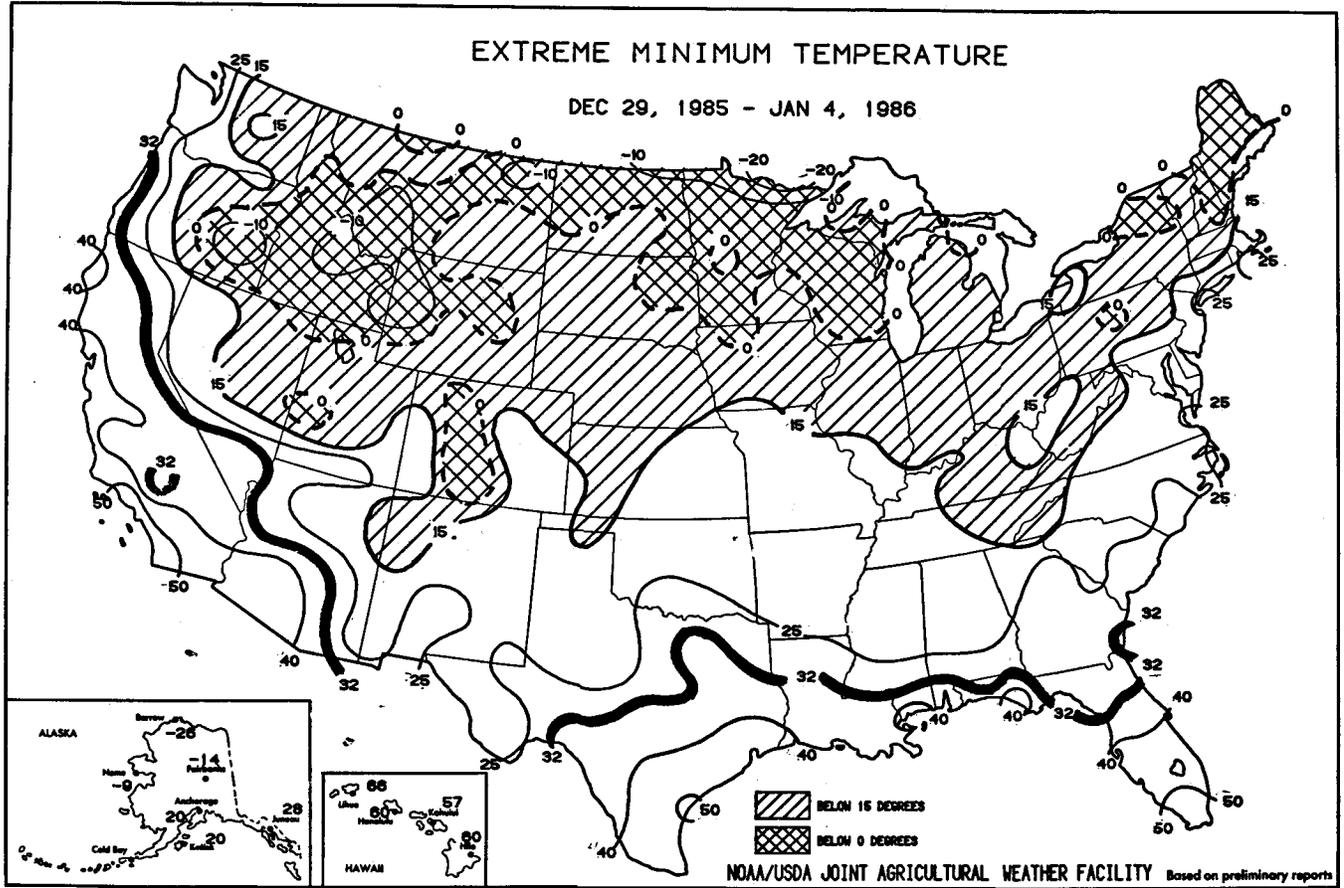
**FRIDAY...**The storm moved east-northeastward and brought heavy snow to the northern Appalachians. Heavy rain fell along the Northeast Coast but changed to snow as the day ended. Rain covered the west coast and spread through most of California. Snow persisted across the northern Plains and Great Lakes.

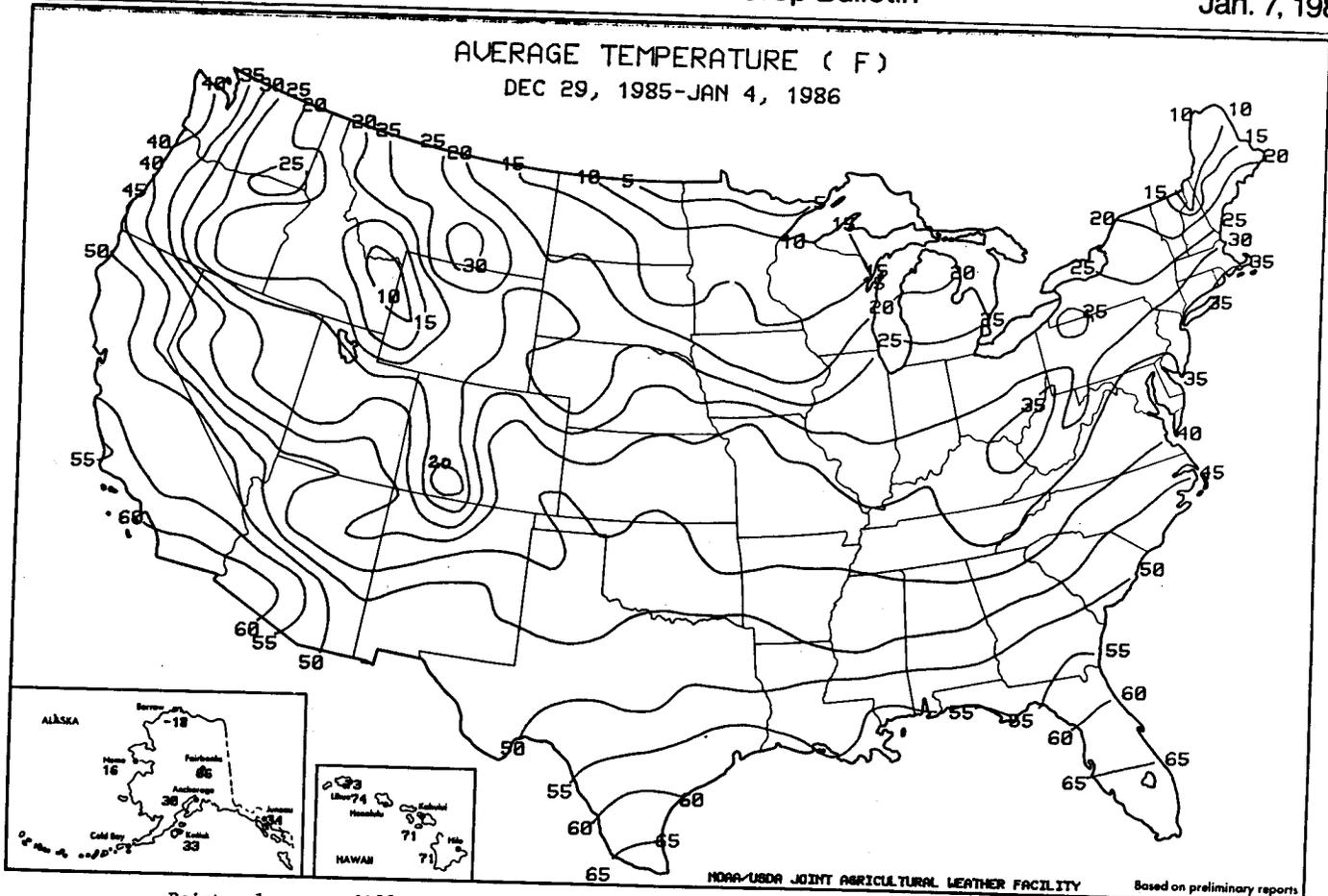
**SATURDAY...**With little respite, another storm began spreading snow over the Great Lakes and the Northeast. The snow changed to light rain in the Ohio Valley and mid-Atlantic area. Showers and thunderstorms developed along the gulf coast and light showers reached northward to the mid-Atlantic States. Light to moderate rain covered the west coast with snow inland east of the Cascades.

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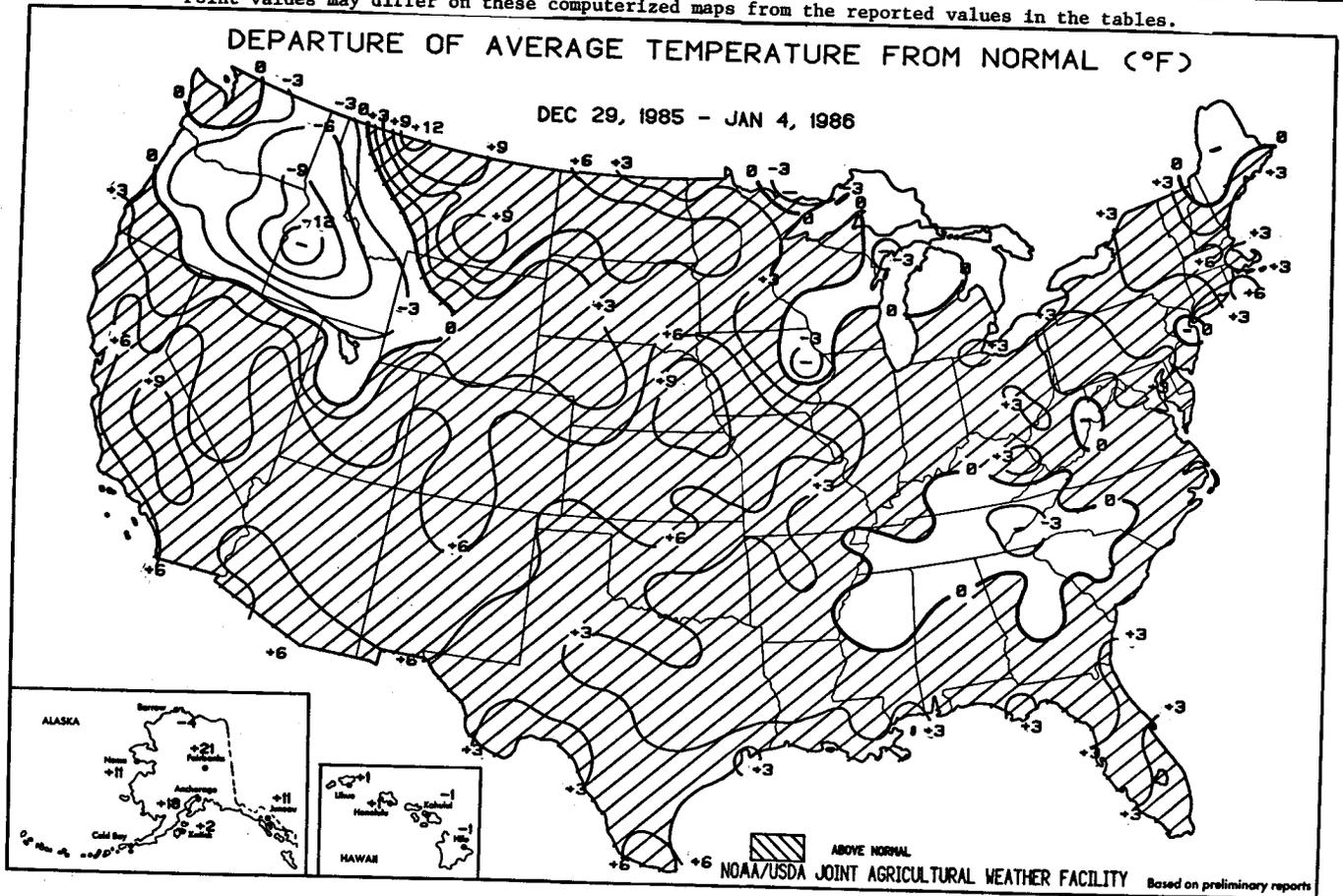
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Point values may differ on these computerized maps from the reported values in the tables.



Weather Data for the Week Ending January 4, 1986

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE DEC. 1	PCT., NORMAL SINCE DEC. 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
AL BIRMINGHAM	56	29	59	19	43	-1	.5	-.7	.5	2.9	52	0	0	94	34	0	0	0	0
MOBILE	63	43	70	33	53	-2	.8	-.4	.6	4.4	73	.1	17	52	52	4	0	1	0
MONTGOMERY	58	33	64	22	46	-1	1.2	-.2	1.2	4.7	88	0	0	94	36	3	3	1	1
AK ANCHORAGE	34	27	46	20	30	18	.4	.2	.2	1.6	133	.2	200	96	79	6	6	4	0
BARROW	13	-22	-1	-26	-18	-4	T	0	T	.2	89	T	0	77	69	0	0	0	0
FAIRBANKS	13	-1	28	-14	6	21	.1	0	.1	.1	15	T	0	89	79	7	7	3	0
JUNEAU	36	32	42	28	34	11	1.0	-.1	-.4	9.3	180	.1	20	92	70	4	4	6	0
KODIAK	39	27	42	20	33	2	1.4	-.3	-.9	20.2	278	1.4	140	94	72	7	7	6	0
NOME	23	9	36	-9	16	11	.2	0	-.1	1.3	184	0	0	91	62	7	7	4	0
AZ PHOENIX	69	47	72	44	58	6	T	-.2	T	.8	85	0	0	79	36	0	0	0	0
PRESCOTT	57	30	61	28	43	7	T	-.4	T	.2	2	0	0	87	39	6	6	0	0
TUCSON	70	41	74	37	55	5	T	-.2	T	.2	14	0	0	87	27	0	0	0	0
YUMA	76	51	81	48	63	8	T	-.1	T	.2	14	0	0	76	31	0	0	0	0
AR FORT SMITH	55	25	63	19	40	2	0	0	0	-.4	13	0	0	86	28	0	0	0	0
LITTLE ROCK	55	33	60	29	44	4	T	-.5	T	.2	0	0	0	86	36	0	0	0	0
CA BAKERSFIELD	60	48	69	38	54	4	T	-.2	T	3.2	0	0	0	68	26	4	4	0	0
EUREKA	58	46	67	42	52	5	1.3	-.2	-.7	4.0	57	1.3	200	96	69	0	0	3	0
FRESNO	59	49	68	41	54	10	.6	-.2	-.5	1.2	63	.5	250	92	72	0	0	3	0
LOS ANGELES	66	56	73	53	61	5	.2	-.3	-.2	.6	33	.2	67	93	62	0	0	2	0
RED BLUFF	55	46	62	35	51	5	.9	0	.6	3.0	73	.7	117	98	77	0	0	4	0
SACRAMENTO	56	47	60	39	51	7	1.7	-.9	-.8	3.1	91	.8	160	98	84	0	0	3	0
SAN DIEGO	69	55	74	52	62	6	T	-.4	T	1.1	66	T	0	88	49	0	0	0	0
SAN FRANCISCO	55	48	60	43	51	3	2.1	1.1	1.2	3.0	73	1.4	233	100	86	0	0	4	0
CO DENVER	51	24	59	17	37	7	0	-.1	0	.7	112	0	0	56	21	7	7	0	0
GRAND JUNCTION	40	25	46	20	32	7	.2	-.1	-.2	-.7	111	0	0	92	56	7	7	0	0
PUEBLO	53	23	63	17	38	8	T	0	T	.3	77	0	0	88	28	7	7	0	0
CT BRIDGEPORT	40	26	46	22	33	2	.7	-.1	-.7	2.0	47	.7	175	74	45	0	0	1	0
HARTFORD	39	19	45	12	29	3	.7	-.2	-.7	2.0	42	.7	140	84	46	7	7	1	0
DC WASHINGTON	47	30	58	27	39	3	T	-.6	T	.7	20	0	0	78	33	5	5	0	0
FL APALACHICOLA	64	47	68	36	56	3	2.3	1.5	1.4	5.6	142	1.4	350	99	73	0	0	2	0
DAYTONA BEACH	72	49	82	33	61	3	.8	-.3	-.8	2.8	113	.8	267	97	47	0	0	2	0
JACKSONVILLE	67	46	73	29	56	3	1.4	-.8	1.0	4.7	159	1.1	275	98	55	0	0	4	0
KEY WEST	77	63	83	56	70	0	0	-.4	0	2.3	119	0	0	98	68	0	0	0	0
MIAMI	78	57	82	50	68	0	0	-.4	0	3.5	165	0	0	94	56	0	0	0	0
ORLANDO	75	52	82	39	64	0	2.0	1.6	2.0	5.5	261	2.0	0	99	51	0	0	1	0
TALLAHASSEE	64	41	69	25	52	3	1.3	-.2	-.8	7.7	148	.5	83	99	55	0	0	2	0
TAMPA	73	52	76	42	63	3	1.2	-.8	1.2	2.3	97	1.2	400	97	61	0	0	1	0
WEST PALM BEACH	78	56	82	48	67	1	T	-.6	T	1.4	53	T	0	99	55	0	0	0	0
GA ATLANTA	54	34	60	24	44	2	.6	-.5	-.6	2.3	47	0	0	85	37	3	3	1	0
AUGUSTA	61	31	68	22	46	1	.1	-.7	-.1	1.7	46	.1	20	94	35	0	0	2	0
MACON	59	34	69	26	46	6	-.4	-.5	-.3	3.1	67	.1	17	95	40	0	0	4	0
SAVANNAH	62	41	70	29	52	3	.2	-.5	-.1	2.1	67	.1	25	92	43	4	4	3	0
HI HILO	77	64	78	60	71	-1	.9	-.3	-.3	3.1	22	.6	50	88	60	0	0	0	0
HONOLULU	81	68	82	60	74	-1	.1	-.8	-.1	.1	2	0	0	76	45	0	0	4	0
KAHULUI	77	65	79	57	71	-1	T	-.7	T	.9	27	T	0	87	58	0	0	0	0
LIHUE	77	69	78	66	73	-1	T	-.4	T	.5	8	T	0	84	59	0	0	1	0
ID BOISE	28	8	42	-7	18	-12	.3	-.1	-.1	1.5	96	.3	150	92	65	7	7	0	0
LEWISTON	33	20	46	12	26	6	T	-.3	T	.4	25	0	0	91	65	0	0	1	0
POCATELLO	29	8	41	-9	18	-6	T	-.2	T	1.2	109	0	0	93	70	7	7	0	0
IL CHICAGO	32	14	37	3	23	0	.2	-.2	-.1	1.7	74	.2	100	87	63	0	0	3	0
MOLINE	36	16	44	7	26	0	.2	-.2	-.1	2.4	112	.2	100	92	67	7	7	2	0
PEORIA	40	20	48	14	30	3	.2	-.3	-.1	2.4	108	.2	100	89	58	0	0	2	0
QUINCY	31	12	39	1	21	2	.1	-.3	-.1	2.5	128	.1	50	83	51	6	6	1	0
ROCKFORD	39	20	46	14	30	4	.6	-.3	-.5	2.9	137	.6	300	96	72	0	0	2	0
SPRINGFIELD	39	20	46	14	30	4	T	-.4	T	2.5	109	0	0	79	48	6	6	2	0
IN EVANSVILLE	45	21	48	13	33	1	T	-.7	T	1.7	44	T	0	88	39	7	7	0	0
FORT WAYNE	34	18	39	6	26	2	.1	-.4	0	2.8	103	.1	33	87	61	0	0	4	0
INDIANAPOLIS	39	19	45	9	29	2	.1	-.6	-.1	3.4	100	.1	25	80	45	7	7	1	0
SOUTH BEND	34	18	39	4	26	1	.2	-.5	-.1	2.7	81	.2	50	88	62	0	0	3	0
IA DES MOINES	35	16	41	9	25	5	.1	-.1	-.1	1.4	121	.1	100	84	60	7	7	2	0
SIoux CITY	35	16	40	6	26	8	.1	-.1	-.1	1.6	73	.1	100	90	60	0	0	1	0
WATERLOO	26	6	35	0	16	0	.3	-.1	-.2	1.5	119	.3	300	88	72	7	7	2	0
KS CONCORDIA	47	25	51	18	36	10	0	0	0	.4	54	0	0	83	36	0	0	0	0
DODGE CITY	50	24	57	15	37	7	T	-.1	T	.1	18	0	0	84	31	7	7	1	0
GOODLAND	47	22	55	14	34	7	0	-.1	0	.5	100	0	0	80	34	0	0	0	0
TOPEKA	45	27	52	17	36	9	0	-.2	0	.7	50	0	0	79	47	6	6	0	0
WICHITA	46	26	57	20	36	6	0	-.2	0	.6	55	0	0	84	42	0	0	0	0
KY BOWLING GREEN	47	22	54	12	34	-1	0	-.1	0	1.7	33	0	0	84	38	7	7	0	0
LEXINGTON	45	22	53	14	34	-1	T	-.8	T	1.1	27	T	0	76	36	0	0	0	0
LOUISVILLE	46	24	52	15	35	1	T	-.8	T	1.0	24	T	0	77	32	7	7	0	0
LA ALEXANDRIA	63	39	70	33	51	0	.1	-.1	.1	5.6	101	0	0	82	41	0	0	1	0
BATON ROUGE	67	41	73	34	54	3	.1	-.9	-.1	4.7	85	.1	17	94	45	0	0	2	0
LAKE CHARLES	65	44	76	38	55	3	.3	-.8	-.2	3.8	66	0	0	93	53	0	0	2	0
NEW ORLEANS	64	44	71	35	54	1	.8	-.3	-.7	5.5	93	.7	117	93	55	0	0	2	1

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

Weather Data for the Week Ending January 4, 1986

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION								RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Dec. 1	PCT. NORMAL SINCE Dec. 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	61	33	66	27	47	1	T	-9	T	3.4	77	T	0	93	31	0	0	0	0	
ME CARIBOU	20	0	32	-5	10	-2	T	-9	T	1.6	107	1.5	375	88	60	0	5	7	0	
PORTLAND	34	16	42	10	25	3	T	-1	1.0	3.4	68	1.0	200	78	43	0	4	1		
MD BALTIMORE	47	26	57	22	36	3	T	-3	1.1	1.0	25	.1	25	74	34	0	6	2		
SALISBURY	49	26	55	21	37	1	T	-6	1.1	1.9	46	1.0	250	90	34	0	4	2		
MA BOSTON	41	25	50	20	33	3	T	-3	.6	1.8	36	.6	120	79	42	0	7	1		
CHATHAM	41	27	49	23	34	2	T	-4	.6	2.1	38	.6	100	79	42	0	6	7		
MI ALPENA	28	8	36	-1	18	-1	T	-1	.6	3.1	143	.5	250	88	67	0	0	0		
DETROIT	32	19	38	8	25	1	T	-2	.3	1.8	63	.2	67	88	64	0	0	0		
FLINT	31	18	38	7	24	2	T	-1	.3	1.6	73	.3	150	89	60	0	0	0		
GRAND RAPIDS	31	16	39	9	24	1	T	0	.5	2.4	86	.4	133	91	66	0	0	0		
HOUGHTON LAKE	24	10	30	2	17	-2	T	-2	.5	2.5	122	.5	250	89	70	0	0	0		
LANSING	31	15	37	12	23	0	T	-1	.5	1.8	72	.5	250	92	68	0	0	0		
MARQUETTE	22	4	27	-5	13	-1	T	-2	.3	4.2	153	.2	67	95	70	0	0	0		
MUSKOGON	32	18	39	11	25	0	T	-2	.3	3.6	123	.6	200	88	64	0	0	0		
SAULT STE. MARIE	22	8	33	4	15	6	T	.1	.1	3.7	128	.2	67	87	61	0	0	0		
MN ALEXANDRIA	21	6	32	1	14	0	T	0	.1	1.4	170	.1	100	94	78	0	0	0		
DULUTH	19	4	29	-4	12	4	T	-2	.1	.9	59	.1	50	93	67	0	0	0		
INT'L FALLS	12	-8	23	-21	2	0	T	-1	.1	.6	56	.1	100	89	62	0	0	0		
MINNEAPOLIS	23	8	34	3	15	2	T	-1	.1	1.4	142	.1	100	88	67	0	0	0		
ROCHESTER	21	4	30	1	13	0	T	0	.2	1.3	141	.2	200	91	77	0	0	0		
MS GREENWOOD	57	28	63	23	43	-1	T	-7	.5	3.9	64	0	0	88	30	0	6	2		
JACKSON	61	30	71	24	46	0	T	-1	.1	3.6	59	0	0	94	38	0	5	1		
MERIDIAN	60	31	68	23	46	0	T	-6	.7	4.3	68	0	0	95	37	0	1	0		
MO CAPE GIRARDEAU	46	24	50	19	35	-	T	-7	0	1.7	40	0	0	85	45	0	7	0		
COLUMBIA	44	23	55	17	34	5	T	-4	0	3.4	156	0	0	83	43	0	6	0		
KANSAS CITY	43	25	49	16	34	7	T	-3	0	1.2	81	0	0	83	51	0	6	0		
SAINT LOUIS	47	26	55	18	36	6	T	-4	0	3.7	150	0	0	78	42	0	5	0		
SPRINGFIELD	46	24	55	19	35	3	T	-4	0	3.1	110	0	0	75	38	0	0	0		
MT BILLINGS	41	24	46	14	32	10	T	-2	.2	.2	23	0	0	68	32	0	7	1		
GLASGOW	26	8	33	-10	17	7	T	0	.6	.6	144	.1	100	93	73	0	7	4		
GREAT FALLS	37	22	44	6	30	9	T	-1	.1	.5	54	.1	100	75	47	0	6	1		
HAVRE	32	16	38	1	24	11	T	-1	.2	.2	27	0	0	90	67	0	7	1		
HELENA	28	10	37	-10	19	0	T	0	.5	.5	76	.2	200	88	61	0	7	2		
KALISPELL	26	11	34	4	24	-2	T	.1	.3	1.1	62	.4	200	96	76	0	7	3		
MILES CITY	31	16	40	2	20	8	T	-1	.1	.7	100	.2	200	87	62	0	0	0		
MISSOULA	28	11	37	2	20	-2	T	-1	.1	.6	43	.2	100	95	73	0	7	3		
NE GRAND ISLAND	44	20	50	13	32	10	T	-1	.1	.3	36	0	0	83	36	0	7	0		
LINCOLN	44	19	48	13	31	10	T	-1	.1	.4	51	0	0	87	43	0	7	0		
NORFOLK	40	18	45	9	29	10	T	-1	.1	.5	68	0	0	87	48	0	7	1		
NORTH PLATTE	36	12	42	6	24	2	T	-1	.1	.8	168	0	0	82	50	0	7	0		
OMAHA	39	21	45	11	30	10	T	-1	.1	.4	42	0	0	79	58	0	7	0		
SCOTTSDUFF	39	11	46	2	25	0	T	-1	.1	1.3	193	0	0	83	52	0	7	0		
VALENTINE	34	13	38	5	23	4	T	-1	.3	.6	68	0	0	78	58	0	7	0		
NV ELY	42	19	45	10	31	7	T	0	.1	.3	73	0	0	83	58	0	7	0		
LAS VEGAS	61	40	62	35	50	7	T	-1	.6	.8	58	.2	100	94	61	0	4	3		
RENO	47	30	56	22	38	7	T	-2	.5	1.0	97	0	0	98	37	0	0	0		
WINNEMUCCA	40	27	48	17	34	5	T	-2	.7	2.6	68	1.0	250	91	47	0	7	1		
NH CONCORD	34	9	42	-8	21	1	T	0	.5	1.5	38	.6	150	91	44	0	5	3		
NJ ATLANTIC CITY	45	24	52	15	34	2	T	0	.1	.2	27	0	0	73	31	0	6	1		
NM ALBUQUERQUE	51	28	57	24	40	6	T	-1	.1	.2	24	0	0	58	25	0	5	6		
CLOVIS	58	27	65	22	43	5	T	-1	.1	.1	23	0	0	69	25	0	6	6		
ROSWELL	62	29	72	22	46	5	T	-1	.1	.2	24	0	0	58	25	0	5	5		
NY ALBANY	33	16	38	12	25	3	T	-4	.2	2.2	66	.2	67	84	54	0	0	0		
BINGHAMTON	32	18	39	11	25	2	T	-5	.1	2.3	69	.1	25	82	51	0	7	1		
BUFFALO	32	22	39	15	27	2	T	-4	.1	5.0	132	.1	25	89	59	0	7	6		
NEW YORK	44	31	50	26	37	4	T	-4	.1	1.0	25	.4	100	63	36	0	4	1		
ROCHESTER	33	18	40	14	25	4	T	-5	.1	2.1	72	.4	100	85	56	0	7	2		
SYRACUSE	33	20	40	16	27	-2	T	-5	.1	1.9	54	.1	25	84	54	0	7	4		
NC ASHEVILLE	48	22	58	14	35	2	T	-7	.1	.7	18	0	0	90	29	0	6	1		
CHARLOTTE	52	28	63	21	40	-1	T	-7	.2	.9	24	0	0	83	33	0	5	1		
GREENSBORO	50	27	61	18	39	2	T	-6	.2	1.5	38	0	0	80	30	0	5	5		
HATTERAS	57	37	63	26	47	1	T	-6	.3	1.1	21	.4	67	96	60	0	2	4		
NEW BERN	58	31	66	22	44	0	T	-7	.2	.7	18	.2	40	94	40	0	4	3		
RALEIGH	54	30	65	23	42	2	T	-5	.2	1.0	27	.2	50	82	29	0	5	2		
WILMINGTON	59	35	69	25	47	1	T	-5	.1	1.6	41	.2	50	92	37	0	3	4		
ND BISMARCK	25	11	35	1	17	9	T	0	.1	.5	76	.1	100	89	69	0	7	4		
FARGO	20	6	32	-4	13	7	T	-1	.1	.7	92	.1	100	87	72	0	7	2		
GRAND FORKS	17	-3	27	-12	7	3	T	0	.1	.4	60	.1	100	90	74	0	7	4		
WILLISTON	25	7	33	-8	16	7	T	.2	.2	.9	141	.2	200	94	75	0	7	6		
OH AKRON-CANTON	34	21	41	8	28	1	T	-5	.1	2.9	98	.1	25	85	54	0	7	3		
CINCINNATI	42	22	49	12	32	2	T	-7	.1	1.5	45	0	0	80	41	0	7	0		
CLEVELAND	35	20	41	6	27	0	T	-5	.1	2.8	90	.1	0	86	56	0	7	1		
COLUMBUS	38	23	45	12	31	2	T	-6	.1	1.8	62	0	0	78	49	0	6	2		

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

Weather Data for the Week Ending January 4, 1986

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION								RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE DEC. 1	PCT. NORMAL SINCE DEC. 1	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE		PRECIPITATION		
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE	
DAYTON	38	20	45	9	29	2	T	-6	T	2.2	79	T	0	81	49	0	7	0	0	
TOLEDO	34	20	39	7	27	3	.2	-3	.1	1.8	62	.2	67	94	66	0	7	4	0	
YOUNGSTOWN	35	21	41	7	28	2	.1	-3	.1	2.1	68	.1	25	82	49	0	7	0	0	
OK OKLAHOMA CITY	54	30	62	22	42	5	0	-2	0	.3	20	0	0	76	30	0	5	5	0	
TULSA	52	31	56	24	41	5	0	-4	0	1.4	68	0	0	75	29	0	0	0	0	
OR ASTORIA	47	33	51	27	40	-1	1.8	-9	.8	4.2	32	1.5	100	94	71	0	2	2	1	
BURNS	28	5	40	-11	16	-10	.1	0	.1	.9	90	.1	100	—	—	0	7	5	3	
MEDFORD	47	29	59	25	38	2	.2	-7	.1	1.0	25	.2	40	100	70	0	6	4	0	
PENDLETON	41	21	44	16	26	-8	.4	0	.2	1.5	78	.2	100	98	76	0	7	4	3	
PORTLAND	33	31	53	21	36	-3	.8	-7	.3	3.0	41	.8	100	91	62	0	5	5	0	
SALEM	45	26	52	16	36	-3	1.1	-6	.4	3.6	45	1.1	110	95	58	0	4	4	0	
PA ALLENTOWN	40	20	47	13	30	2	.1	-6	.1	1.8	43	.1	25	87	47	0	5	2	0	
ERIE	35	23	41	15	29	3	.2	-5	.1	3.0	82	.1	25	85	51	0	7	3	0	
HARRISBURG	41	27	51	20	34	4	T	-7	T	1.3	37	T	0	74	39	0	5	0	0	
PHILADELPHIA	44	26	52	20	35	3	.6	-1	.6	1.5	40	.6	150	79	36	0	6	2	1	
PITTSBURGH	38	24	47	14	31	3	.1	-5	.1	2.4	81	.1	25	73	43	0	2	2	0	
SCRANTON	35	21	44	13	28	2	T	-5	T	1.9	68	T	0	75	47	0	7	0	0	
RI PROVIDENCE	42	21	51	15	31	2	.9	.8	.8	2.2	44	.8	133	86	43	0	6	2	1	
SC CHARLESTON	62	37	70	29	50	2	.2	-6	.1	1.3	37	.1	25	96	43	0	2	2	0	
COLUMBIA	59	29	67	20	44	-1	T	-9	T	.9	22	T	0	95	32	0	4	1	0	
FLORENCE	60	35	70	25	47	-2	T	-8	T	.9	27	T	0	88	33	0	3	0	0	
GREENVILLE	53	27	63	21	40	-1	.6	-4	.6	1.5	33	0	0	86	30	0	5	1	0	
SD ABERDEEN	23	6	35	-2	15	4	.1	0	.1	.6	125	.1	0	92	74	0	7	2	0	
HURON	26	9	37	-2	18	5	.2	.1	.1	.9	152	.2	0	83	65	0	7	3	0	
RAPID CITY	32	15	38	7	23	1	.1	.1	.1	.9	184	.1	0	84	51	0	7	3	0	
STOUX FALLS	27	11	36	2	19	5	.3	.1	.2	.7	91	.3	300	91	68	0	7	2	0	
TN CHATTANOOGA	50	25	57	15	38	-1	.7	-5	.7	2.4	41	0	0	92	38	0	5	1	1	
KNOXVILLE	48	21	56	11	34	-4	.9	-1	.9	2.4	45	0	0	96	41	0	7	1	1	
MEMPHIS	53	29	58	23	41	1	.2	-8	.2	3.3	60	0	0	75	29	0	5	1	0	
NASHVILLE	51	24	59	15	38	0	.1	-1	.1	.9	18	0	0	86	32	0	6	1	0	
TX ABILENE	60	33	72	22	46	3	T	-2	T	4	4	0	0	81	32	0	2	2	0	
AMARILLO	55	24	67	17	40	4	0	-1	0	.3	46	0	0	79	28	0	7	0	0	
AUSTIN	64	43	70	36	53	4	.1	-3	.1	1.1	50	.1	50	89	41	0	1	0	0	
BRAUNTON	68	46	75	41	57	5	T	-1	T	2.8	55	T	0	93	49	0	0	2	0	
BROWNSVILLE	78	57	89	48	67	7	0	0	0	.4	33	0	0	99	62	0	0	0	0	
CORPUS CHRISTI	70	52	80	46	61	4	0	-4	0	1.6	101	0	0	95	57	0	0	0	0	
DEL RIO	63	41	68	34	52	1	T	-1	T	5	5	0	0	86	39	0	0	0	0	
EL PASO	63	34	70	23	49	6	T	-1	T	.1	14	0	0	68	25	0	4	1	0	
FORT WORTH	60	34	69	30	47	3	T	-4	T	.6	31	T	0	79	34	0	2	0	0	
GALVESTON	64	51	71	47	57	3	.1	-7	.1	2.6	65	.1	25	96	58	0	0	2	0	
HOUSTON	66	44	74	40	55	3	T	-8	T	3.9	94	T	0	87	55	0	0	0	0	
LUBBOCK	59	28	71	22	44	4	0	-1	0	.2	38	0	0	76	26	0	6	0	0	
MIDLAND	63	32	73	25	47	3	T	0	T	.1	16	0	0	82	27	0	3	1	0	
SAN ANGELO	63	35	72	25	49	3	T	-1	T	4	4	0	0	89	34	0	0	0	0	
SAN ANTONIO	65	43	70	37	54	3	T	-3	T	.1	6	0	0	86	41	0	2	1	0	
VICTORIA	69	46	79	41	58	4	T	-4	T	2.4	100	T	0	94	50	0	0	0	0	
WACO	62	37	70	30	49	3	0	-4	0	2.0	95	0	0	90	38	0	2	0	0	
WICHITA FALLS	59	30	74	26	45	4	0	0	0	.1	8	0	0	75	30	0	4	0	0	
UT BLANDING	43	23	48	20	33	6	T	-4	T	1	1	0	0	90	55	0	7	0	0	
CEDAR CITY	47	25	53	18	36	7	.1	-1	.1	.3	47	0	0	94	53	0	6	1	0	
SALT LAKE CITY	35	19	43	8	27	-1	.2	-1	.2	1.4	92	0	0	86	64	0	7	2	0	
VT BURLINGTON	28	15	36	4	21	3	.3	-2	.2	1.8	68	.2	100	87	57	0	7	4	0	
VA NORFOLK	52	30	60	24	41	0	.7	-1	.5	1.4	37	.5	100	85	38	0	5	3	0	
RICHMOND	51	25	61	18	38	1	.2	-5	.1	.7	18	.1	25	79	28	0	6	2	0	
ROANOKE	46	26	56	20	36	0	.1	-6	.1	.9	26	0	0	78	32	0	6	1	0	
WA COLVILLE	25	15	29	6	20	-5	.6	0	.4	1.3	45	.5	167	92	87	0	7	4	0	
QUILLAYUTE	44	34	46	29	39	0	2.2	-1.4	1.0	5.4	30	1.8	86	100	86	0	2	6	2	
SEATTLE-TACOMA	44	35	49	32	40	0	1.3	-1	.7	3.1	43	1.3	163	95	66	0	1	6	2	
SPOKANE	24	15	30	8	19	-7	.5	0	.3	1.1	40	.4	133	97	80	0	7	6	0	
YAKIMA	29	17	43	12	23	-6	.2	-1	.1	1.2	82	.2	100	98	72	0	7	3	0	
WV BECKLEY	40	23	47	9	32	1	.1	-6	.1	1.7	47	0	0	82	38	0	7	2	0	
CHARLESTON	48	27	56	19	37	4	T	-8	T	2.7	73	0	0	67	30	0	5	0	0	
HUNTINGTON	46	26	53	19	36	2	T	-7	T	2.1	59	T	0	72	33	0	7	0	0	
PARKERSBURG	42	25	51	15	34	2	T	-7	T	1.9	58	.0	0	74	39	0	6	1	0	
WI GREEN BAY	25	5	32	-4	15	0	.4	-1	.3	2.2	141	.4	200	86	63	0	7	2	0	
LA CROSSE	24	6	32	0	15	-1	T	-2	T	1.2	97	T	0	85	65	0	7	0	0	
MADISON	28	10	36	-1	19	2	.6	.3	.3	2.9	174	.6	300	92	67	0	7	3	0	
MILWAUKEE	30	13	38	4	22	1	.6	.2	.3	3.2	141	.6	300	89	63	0	7	3	0	
WAUSAU	24	5	29	-1	14	2	.1	-1	.1	1.3	96	.1	100	83	60	0	7	2	0	
WY CASPER	33	16	39	-3	25	2	.1	0	.1	1.1	207	.1	0	78	51	0	7	1	0	
CHEYENNE	41	21	49	8	31	5	T	0	T	.8	202	0	0	74	24	0	7	1	0	
LANDER	30	8	42	1	19	-1	0	-1	0	1.6	283	0	0	78	46	0	7	0	0	
SHERIDAN	40	17	45	5	28	8	T	-1	T	.4	47	0	0	82	45	0	7	1	0	
PR SAN JUAN	83	69	84	67	76	-1	1.0	.2	1.0	3.0	62	1.0	200	96	66	0	0	3	1	

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS



## December Weather and Crop Summary

### DECEMBER WEATHER SUMMARY

**HIGHLIGHTS:** December was a cold month. All of the Nation except the Southwest was colder than normal. The upper Mississippi Valley was 10 to 14 degrees colder than normal, and the northern Plateau averaged as much as 18 degrees colder than normal. Although some precipitation fell almost everywhere, much of the Nation was dryer than normal. Almost continuous snow produced above-normal precipitation in the western Great Lakes and on the lee side of the Lakes from Ohio through western New York. Much of the east coast, which was plagued by drought the previous winter, had less than half the normal precipitation. Normal, seasonal increase of precipitation in the West has not started. However, heavy snow accumulated in the central Rockies and parts of the northern Plains.

**FIRST WEEK...** Severely cold weather covered the northern Rockies, Plains, and upper Mississippi Valley. The cold air spread eastward, and colder-than-normal weather reached the Atlantic and into northern Florida. The Southwest was much warmer. Light rainshowers fell from eastern Texas into the Southeast, but some heavy amounts fell in southern Florida. Light rain or drizzle covered the East Coast States. The light rain was occasionally mixed with sleet from the central Appalachians northward. Snow was heavy from eastern Iowa through upper Michigan. Rain or rainshowers fell along the west coast, and a few thunderstorms spread from central California into Nevada. Heavy snow fell in the Cascades of Washington and Oregon.

**SECOND WEEK...** Winter-like weather, which had dominated the northern and central Plains and the West for the last several weeks, spread eastward and southward to cover most of the Nation. Freezing temperatures reached into southern California, the gulf coast, and northern Florida. Snow covered the lower Great Lakes States, New York, and New England. Snow fell as far south as west central Texas, Arkansas, and Tennessee. Precipitation was light to moderate from eastern Texas to Georgia and northward to southern Iowa and New England. Lighter snow was frequent through the northern and central Plains.

**THIRD WEEK...** Frigid, arctic air pushed into the upper Mississippi Valley early in the week and spread to the central Plains, the southeastern gulf coast, and through the East. Light snow fell in the northern and central Plains, from the Great Lakes to the Tennessee Valley, and through the Atlantic Coast States to North Carolina. Strong winds, flowing down the eastern slopes of the Rockies, kept warmer temperatures in the High Plains. Temperatures were colder than normal in all of the Nation except the Southwest and the eastern slopes of the Rockies.

**FOURTH WEEK...** The coldest weather of the season pushed into the northern Plains and upper Mississippi Valley early in the week. Strong, gusty wind accompanied the cold air as it plunged southward and eastward to cover the East. Freezing temperatures reached into southern Florida to the Lake Okechobee area on Thursday and Friday. Snow fell almost daily from the Great Lakes to the Ohio Valley and into New England. Moderate to heavy amounts accumulated on the lee side of the Great Lakes. Fog shrouded the West.

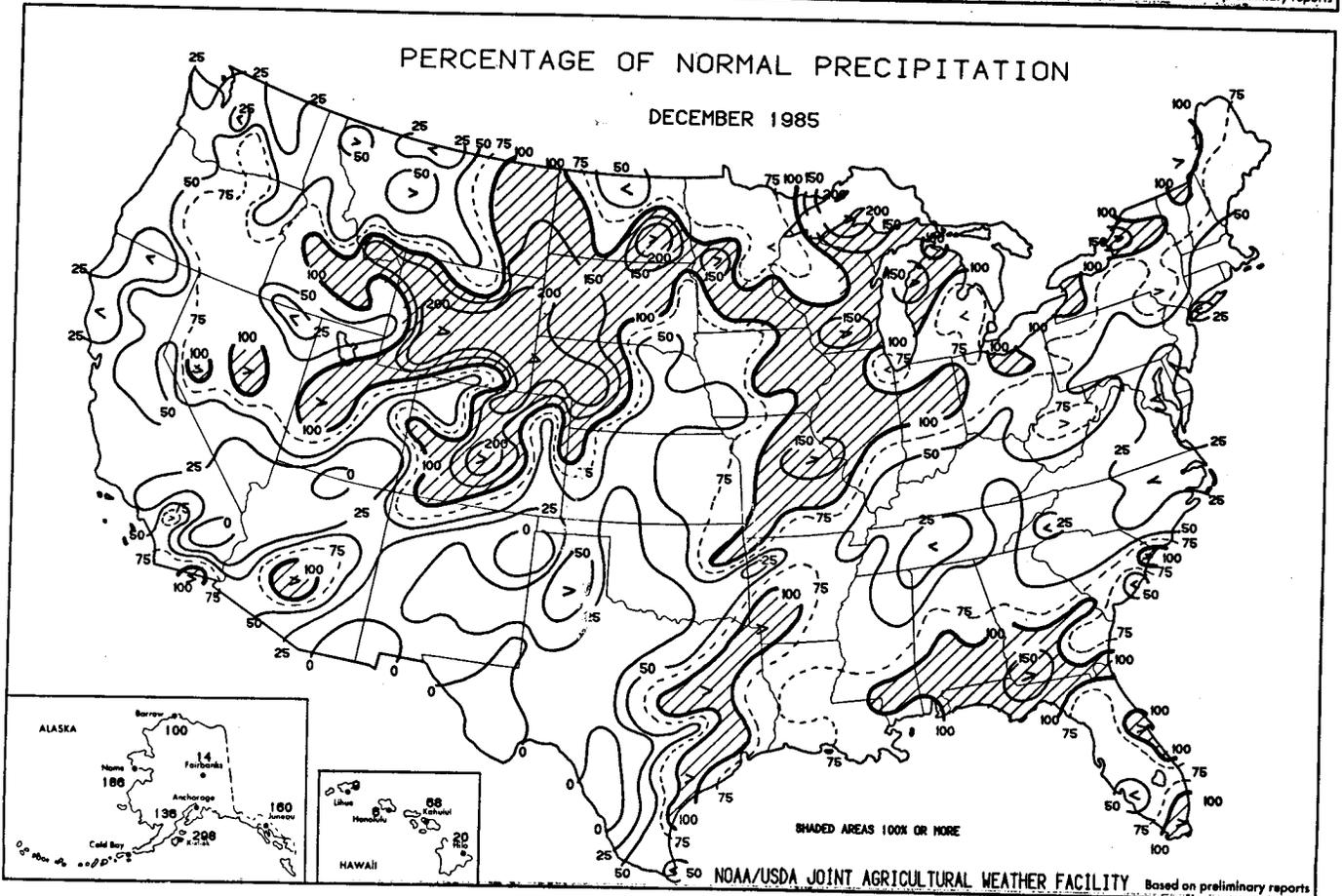
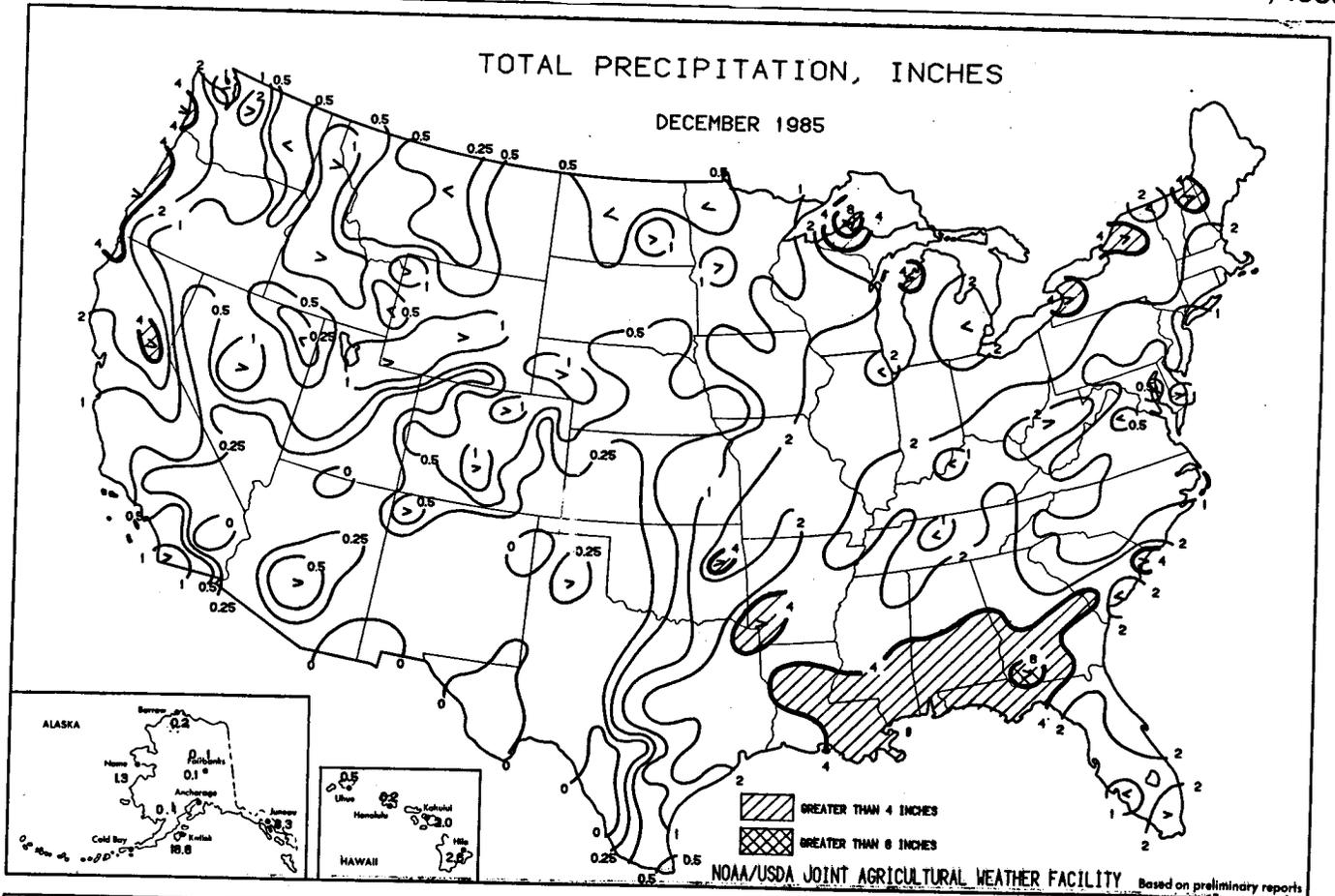
During the last 3 days of the month, warmer weather spread across the South and pushed northward through the Appalachians. Rainshowers developed from the Mississippi Delta to eastern Kentucky. Thunderstorms and a few tornadoes were reported in the Southeast.

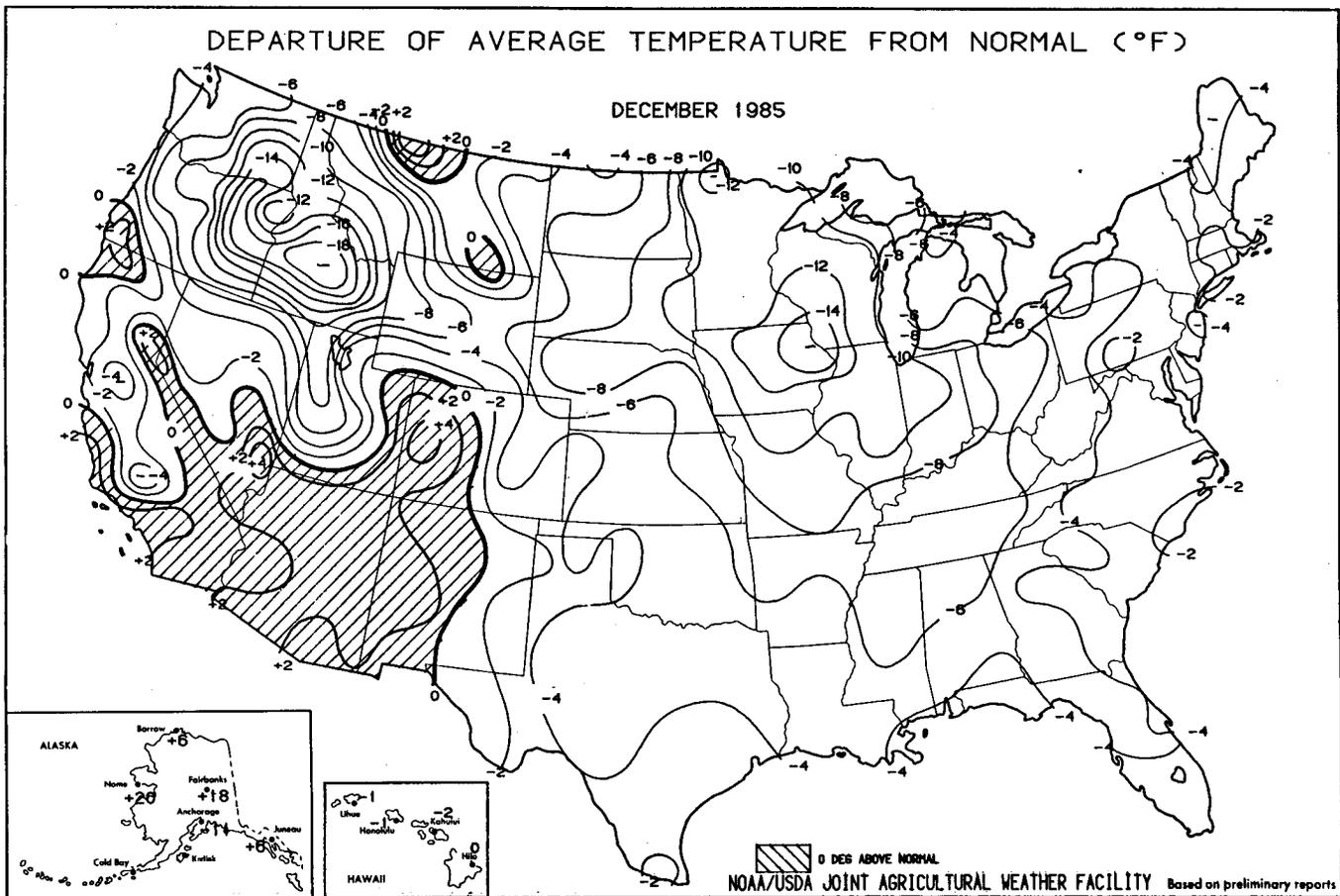
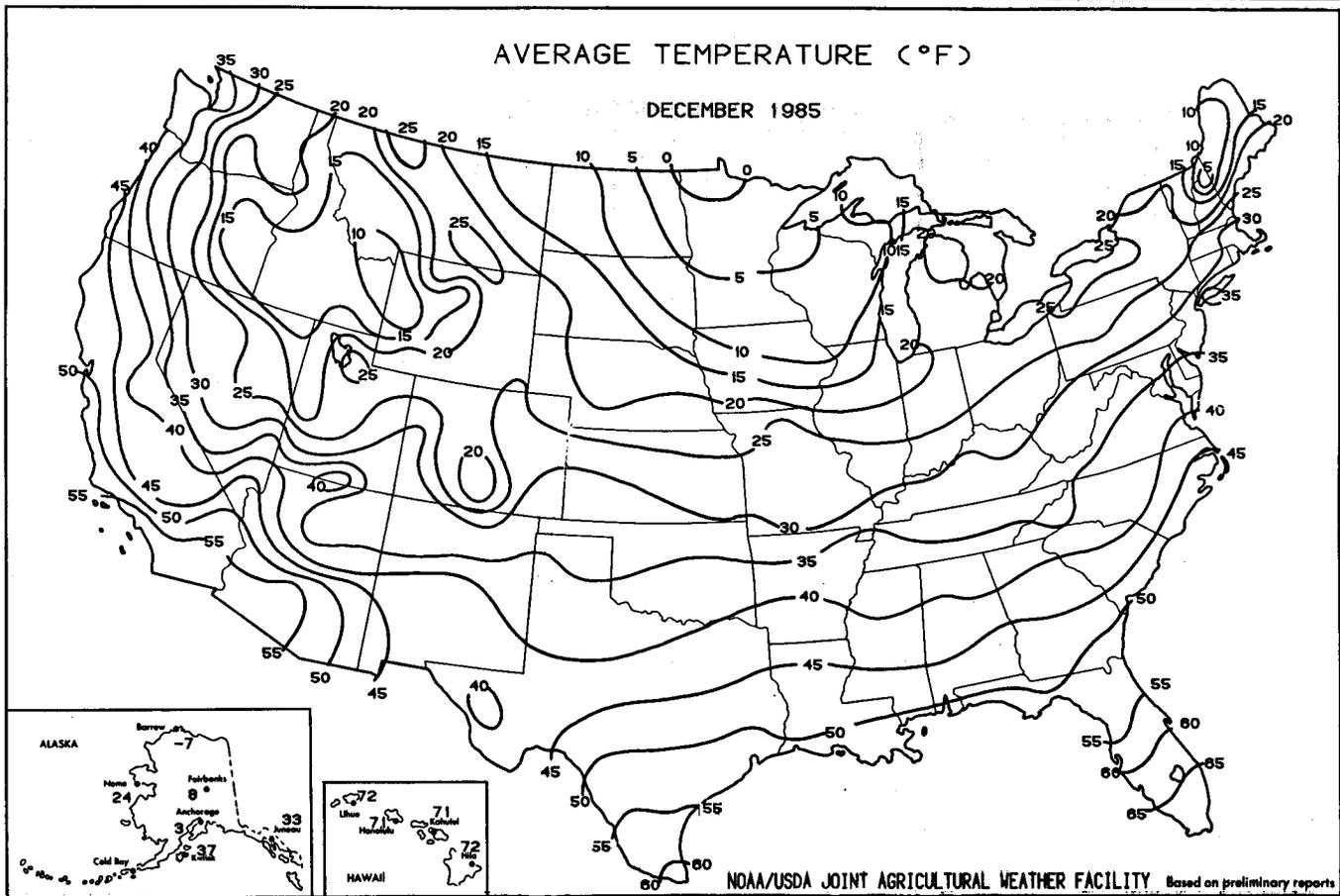
### DECEMBER HARVESTING PROGRESS

Rainy, snowy weather hampered harvest progress for the most part during December. However, open weather and frozen soil advanced harvest late in the month, especially in the Southeast. Wet conditions caused further deterioration of remaining soybeans and cotton in some areas. Cotton harvest remained behind normal in North Carolina, Georgia, Texas, Oklahoma, New Mexico and California during the month. Freezing temperatures early in December halted growth and helped with defoliation in Texas. As the month drew to a close only a few fields remained to be harvested in California, Arizona, New Mexico, Oklahoma, and Texas. Harvest was 95% complete in New Mexico compared with 96% normally on December 29th. Cotton harvest was 3 percentage points ahead of normal in Texas by month's end. Corn and soybean harvest was held at a virtual standstill the first half of December. Harvest inched forward but little progress was accomplished until the last half of the month when frozen ground and open weather permitted harvest to resume. Corn harvest was virtually complete in the Southeast by the end of December. In the Southeast, soybeans were still being harvested as the month drew to a close. Harvesting progress was above 90 percent in all States, with most States at, or above, 95 percent completion, with the exception of North Carolina where soybeans were 88% harvested. Most of the corn yet to be harvested remained in the Corn Belt and northern Plains States. In Indiana, corn was 95 percent harvested and soybeans, 98 percent harvested on December 29th. By month's end, Michigan's corn and soybean harvest was 91 and 96 percent complete, respectively. In Ohio, some corn and soybeans remained to be harvested at the end of December.

### WINTER WHEAT

Winter wheat seeding continued in the Southeast and Southwest during December. Most of the seeding activity was concentrated in Alabama, Arizona, California, Georgia, and Louisiana. Freezing temperatures and wet weather interrupted planting in the Appalachian States where some intended acreage was not planted. Low temperatures blanketed much of the northern wheat producing areas but snow protected the wheat from severe damage. The low temperatures stretched as far south as Texas, causing very little damage. The below-normal temperatures limited growth during most of December. Late in the month, snow cover was melting in the central Plains, exposing the winter wheat. So far, winter damage has been minimal but Montana's wheat had some light wind damage and in Oklahoma there was some winterkill. In western Oregon, frost heaving damaged some fall seeded grains. The wheat was mostly good with generally adequate moisture.







Heating Degree Days (Base 65° F.)

DECEMBER 1985

ALA. Birmingham . . . . .	770	MAINE, Caribou . . . . .	1636	OKLA. Okla. City . . . . .	921
Mobile . . . . .	503	Portland . . . . .	1245	Tulsa . . . . .	936
Montgomery . . . . .	656	MD. Baltimore . . . . .	962	OREG. Astoria . . . . .	788
ALASKA, Anchorage . . . . .	1155	MASS. Boston . . . . .	1035	Burns . . . . .	1627
Barrow . . . . .	2233	Chatham . . . . .	956	Medford . . . . .	890
Fairbanks . . . . .	1777	MICH. Alpena . . . . .	1401	Pendleton . . . . .	1402
Nome . . . . .	924	Detroit . . . . .	1317	Portland . . . . .	982
ARIZ. Flagstaff . . . . .	1005	Flint . . . . .	1346	Salem . . . . .	975
Phoenix . . . . .	274	Grand Rapids . . . . .	1316	PA. Allentown . . . . .	1093
Tucson . . . . .	369	Houghton Lake . . . . .	1451	Erie . . . . .	1164
Winslow . . . . .	938	Lansing . . . . .	1350	Harrisburg . . . . .	1049
Yuma . . . . .	204	Marquette . . . . .	1709	Philadelphia . . . . .	975
ARK. Fort Smith . . . . .	917	S. Ste. Marie . . . . .	1579	Pittsburgh . . . . .	1160
Little Rock . . . . .	823	MINN. Duluth . . . . .	1925	Scranton . . . . .	1181
CALIF. Bakersfield . . . . .	668	Internatl Falls . . . . .	2011	R.I. Providence . . . . .	1066
Eureka . . . . .	533	Minneapolis . . . . .	1774	S.C. Charleston . . . . .	527
Fresno . . . . .	651	Rochester . . . . .	1817	Columbia . . . . .	681
Los Angeles . . . . .	181	St. Cloud . . . . .	1891	Greenville . . . . .	800
Red Bluff . . . . .	643	MISS. Jackson . . . . .	685	S. DAK. Aberdeen . . . . .	1770
Stockton . . . . .	733	Meridian . . . . .	689	Huron . . . . .	1745
San Diego . . . . .	211	MO. Columbia . . . . .	1249	Rapid City . . . . .	1358
San Francisco . . . . .	546	Kansas City . . . . .	1297	Sioux Falls . . . . .	1721
COLO. Denver . . . . .	1094	St. Louis . . . . .	1159	TENN. Chattanooga . . . . .	869
Grand Junction . . . . .	1018	Springfield . . . . .	1139	Knoxville . . . . .	927
Pueblo . . . . .	1161	MONT. Billings . . . . .	1207	Memphis . . . . .	861
CONN. Bridgeport . . . . .	1032	Glasgow . . . . .	1617	Nashville . . . . .	948
Hartford . . . . .	1157	Great Falls . . . . .	1246	TEX. Abilene . . . . .	725
D.C. Washington . . . . .	879	Havre . . . . .	1393	Amarillo . . . . .	957
FLA. Apalachicola . . . . .	404	Helena . . . . .	1545	Austin . . . . .	490
Ft. Myers . . . . .	303	Kalispell . . . . .	1445	Beaumont . . . . .	438
Jacksonville . . . . .	420	Miles City . . . . .	1452	Brownsville . . . . .	184
Key West . . . . .	33	Missoula . . . . .	1554	Corpus Christi . . . . .	304
Miami . . . . .	78	NEBR. Grand Island . . . . .	1334	Del Rio . . . . .	467
Orlando . . . . .	228	Lincoln . . . . .	1345	El Paso . . . . .	670
W. Palm Beach . . . . .	102	Norfolk . . . . .	1469	Fort Worth . . . . .	696
Tallahassee . . . . .	525	North Platte . . . . .	1416	Galveston . . . . .	333
Tampa . . . . .	238	Omaha . . . . .	1467	Houston . . . . .	434
GA. Atlanta . . . . .	725	Valentine . . . . .	1512	Lubbock . . . . .	832
Augusta . . . . .	639	NEV. Ely . . . . .	1232	Midland . . . . .	734
Macon . . . . .	625	Las Vegas . . . . .	512	San Angelo . . . . .	655
Savannah . . . . .	504	Reno . . . . .	1039	San Antonio . . . . .	467
IDAHO, Boise . . . . .	1619	Winnemucca . . . . .	1179	Victoria . . . . .	385
Lewiston . . . . .	1243	N.H. Concord . . . . .	1326	Waco . . . . .	619
Pocatello . . . . .	1657	N.J. Atlantic City . . . . .	981	Wichita Falls . . . . .	812
ILL. Cairo . . . . .	970	N. MEX. Albuquerque . . . . .	842	UTAH, Milford . . . . .	1349
Chicago . . . . .	1480	N.Y. Albany . . . . .	1246	Salt Lake City . . . . .	1151
Moline . . . . .	1546	Binghamton . . . . .	1315	VT. Burlington . . . . .	1344
Peoria . . . . .	1432	Buffalo . . . . .	1215	VA. Lynchburg . . . . .	901
Rockford . . . . .	1553	New York . . . . .	933	Norfolk . . . . .	731
Springfield . . . . .	1340	Rochester . . . . .	1231	Richmond . . . . .	838
IND. Evansville . . . . .	1135	Syracuse . . . . .	1200	Roanoke . . . . .	918
Fort Wayne . . . . .	1373	N.C. Asheville . . . . .	932	WASH. Colville . . . . .	-
Indianapolis . . . . .	1311	Charlotte . . . . .	777	Quillayute . . . . .	820
South Bend . . . . .	1381	Greensboro . . . . .	843	Seattle-Tacoma . . . . .	888
IOWA, Des Moines . . . . .	1596	Hatteras . . . . .	531	Spokane . . . . .	1409
Dubuque . . . . .	1744	Raleigh . . . . .	789	Walla Walla . . . . .	1343
Souix City . . . . .	1581	Wilmington . . . . .	559	Yakima . . . . .	1416
KANS. Concordia . . . . .	1244	N. DAK. Bismarck . . . . .	1731	W. VA. Beckley . . . . .	1116
Dodge City . . . . .	1086	Fargo . . . . .	1895	Charleston . . . . .	960
Goodland . . . . .	1188	Williston . . . . .	1664	Huntington . . . . .	1001
Topeka . . . . .	1228	OHIO. Akron-Canton . . . . .	1254	WIS. Green Bay . . . . .	1719
Wichita . . . . .	1116	Cincinnati . . . . .	1195	Madison . . . . .	1661
KY. Lexington . . . . .	1092	Cleveland . . . . .	1255	Milwaukee . . . . .	1523
Louisville . . . . .	1067	Columbus . . . . .	1202	WYO. Casper . . . . .	1348
LA. Baton Rouge . . . . .	509	Dayton . . . . .	1271	Cheyenne . . . . .	1199
Lake Charles . . . . .	478	Toledo . . . . .	1316	Lander . . . . .	1507
New Orleans . . . . .	443	Youngstown . . . . .	1255	Sheridan . . . . .	1215
Shreveport . . . . .	638				

Based on 1951-80 normals.

## National Agricultural Summary

December 30, 1985 to January 5, 1986

**HIGHLIGHTS:** The cold weather moderated across most of the Nation, easing livestock stress and allowing limited growth of small grains in the southern half of the Nation. Corn, soybean, and cotton harvest continued with light to moderate success in the Southeast, Corn Belt, and northern Plains. Soil moisture was generally adequate except in the central Plains and in Texas where moisture was becoming inadequate.

Winter wheat was mostly good with limited damage from disease and cold weather. Most of the wheat across Nebraska, Kansas, and Oklahoma was without snow cover leaving it vulnerable to possible winterkill. Some areas began experiencing problems with rust as temperatures warmed. Cotton harvest made good progress in the Plains and Cross-Timbers areas of Texas. Precipitation interrupted harvest in the Southeast and in the West. Vegetable harvest continued in California, Texas, and Arizona. Florida vegetable crops were generally good. The damage from the freezing temperatures earlier was limited with losses generally light. Citrus tree and fruit damage from the freezing temperatures was insignificant in Florida. Livestock was mostly good. Supplemental feeding continued but eased somewhat with warmer temperatures. Feed supplies were mostly adequate but hay shortages were reported in some areas.

**SMALL GRAINS:** Winter wheat was fair to mostly good with limited damage from disease and cold weather. Most of the wheat across Nebraska, Kansas, and Oklahoma was without snow cover and vulnerable to winterkill. Rust became a problem in Arkansas wheat as temperatures warmed. Snow adequately protected wheat from low temperatures across the northern one-third of the Nation. Montana's wheat was mostly fair to good. Wind damage has been light thus far. Nebraska's wheat had some winterkill from wind erosion and uprooting in the central and southeast areas. Snow cover was adequate in the Panhandle and north central regions. Warm temperatures increased wheat growth in Texas despite the need for moisture in some areas. Some producers began irrigating in the High Plains.

**OTHER CROPS:** Cotton harvest made good progress in the Plains and Cross-Timbers areas of Texas. Harvest was 96 percent (%) finished, 4 points ahead of normal. Oklahoma's cotton was 90% harvested. Harvest continued in the Southeast and West as weather permitted.

Corn and soybean harvest slowly marched towards completion. Ohio producers harvested limited amounts of corn and soybeans, and some

fields still remain to be harvested. Open weather and frozen ground permitted Missouri farmers to continue late harvesting of corn and soybeans. Corn and soybean harvests now stands at 96 and 92% completion, respectively. Snow ended Michigan's soybean harvest, but corn harvest inched along. In North Carolina, soybean harvest reached 93% completion, compared with 96% normally.

Burley tobacco markets reopened following the Christmas shutdown. Producers in the Southeast prepared tobacco plantbeds for the 1986 crop.

**FRUIT AND NUTS:** Florida citrus trees were unharmed by the earlier cold weather. Most citrus groves were in good condition. Rain and irrigation minimized foliage dehydration. Harvest was active in all areas. In Arizona, lemons, grapefruit, tangerines, and Navel and sweet oranges were picked. Citrus groves were in good condition. California citrus harvest progressed in the desert area. The San Joaquin Navel orange harvest was in full swing and some grade out was necessary because of ice marks and puffing. Heavy grapefruit droppage was noted in several San Joaquin Valley orchards. Moderate volume of grapefruit moved with increased export demand.

Pruning and spraying of orchards and vineyards was active in California. Frost delayed spraying of deciduous orchards. Pecan harvest advanced in Arizona. Texas pecan harvest was 96% finished. Mostly native pecans were harvested.

**VEGETABLE:** Temperatures returned to near normal in Florida's vegetable areas. Vegetables were generally good. The cold damage was limited with losses generally light. The heaviest damage was inflicted on squash and cucumbers in the southeast and in the Ft. Pierce-Stuart area. Strawberries received spot damage where water coverage was inadequate. Vegetable harvest in Texas progressed well with open weather. In Arizona, lettuce movement continued from Yuma but was finished in the Parker-Poston area. Harvest in the Salt River Valley should be completed by mid-January. Cauliflower, broccoli, and mixed vegetables were packed in Yuma and in the Salt River Valley. California vegetable harvest consisted mostly of broccoli, carrots, cauliflower, celery, and lettuce.

**PASTURES AND LIVESTOCK:** Pastures improved in the South with warmer temperatures. Warm temperatures improved small grain pastures. Livestock was mostly good. Stress and supplemental feeding eased as temperatures increased. Feed supplies were adequate, but some areas reported hay shortages.

## 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 between 0.25 to 0.75 in. over northern third and 1.00 in. elsewhere. Temperatures averaged 1 to 2° below normal.

**ARIZONA:** Scattered rain, snow northern two-thirds of State. Moisture varied from traces to few hundredths of inch except 0.20 in. Grand Canyon, White Mountains. Otherwise, skies sunny to partly cloudy with mild temperatures. Temperatures varied from 3 to 8° above seasonal normals.

Cotton harvested 98% 1985; stalk shredding, plowdown light to moderate west, active elsewhere. Wheat, barley 65% seeded equal to year ago. Crops emerging, stands good to excellent condition. Alfalfa fair to good condition. Harvest light, sheep grazing continued. Late corn good condition. Lemon, grapefruit, tangerines, Navel and sweet oranges picked. Groves good condition. Pecan harvest advanced. Lettuce movement continued Yuma, finished Parker-Poston. Harvest Salt River Valley should be completed by 12th. Cauliflower, broccoli, mixed vegetables packed Yuma, Salt River Valley. Rapini also shipped from Eloy-Casa Grande-Marana district. Good stands established for spring dry onion crop.

**ARKANSAS:** Early part of week several degrees above normal, last part closer to normal but remained above normal over most of State. Isolated areas received rain. Rainfall none to 0.49 in. Temperature extremes 130; 65°.

Warm weather contributed to rust problems in wheat. Oats good condition. Farmers made good progress destroying stubble. Livestock good condition with adequate supplies of feed.

**CALIFORNIA:** Temperatures above normal throughout State. Rainfall recorded at most locations as a few warm rain systems moved across State. High pressure system of past few weeks finally weakened and allowed an end to dry spell at many locations. Number of stations in southern end of State not recording any rainfall.

Cold, foggy weather slowed small grain growth. Seeding slowed, weed control slow. Cotton picking, shredding, discing on few remaining fields slowed. Pre-irrigation becoming active. Pruning, spraying orchards, vineyards active. Dormant spraying of deciduous orchards delayed by frost. Fuerte, Haas avocados harvested southern areas. Deglet Noor dates harvested Coachella Valley. Pruning, cane tying active Kiwi, grape vineyards, orchards. Citrus harvest progressing desert area. San Joaquin Navel orchard harvest full swing, some grade out necessary due to ice marks and puffing. Heavy grapefruit droppage noted several San Joaquin Valley orchards. Moderate volume of grapefruit moving with increasing export demand. Digging of Sacramento Valley bare root nursery stock active. Artichoke fairly light, quality generally good and appearance fair. Broccoli moderate Salinas, heavy Santa Maria variable quality. Few Santa Maria shippers diverting supplies to freezers. Broccoli harvest continued San Joaquin Valley and Palo Verde Valley, harvesting picked up south coast. Carrot Salinas light variable quality. Carrot harvesting continued San Joaquin Valley, Palo Verde Valley. El Centro Valley, Coachella Valley fairly light but increasing. Cauliflower fairly heavy Santa Maria, quality poor to variable. Harvesting continued San Joaquin Valley, Palo Verde Valley but fairly heavy Imperial Valley. Celery finished for season Salinas with some

shipment remaining in storage. Celery light Santa Maria quality variable. Harvesting continued south coast area. Lettuce continued Palo Verde Valley good quality. Lettuce Imperial Valley fairly heavy and increasing. Fall potato movement Tulelake-Butte Valley continue steady despite low prices. Digging of White Rose and Red potato varieties continued Riverside County. Foggy, cold weather continued retarding grass growth central valleys to Foothill districts. Foothill ranges above fog line making good growth. Recent rain benefit pastures improved stockwater supplies. Calving, lambing continued.

**COLORADO:** An upper air disturbance moved through State 30th, 31st and brought up to 5 in. of new snow to some mountain locations, but mostly less than 1 in. at lower elevations. Remainder of period dry and mild with occasionally strong winds along and near eastern Foothills. Temperatures mostly 3 to 5° above normal west of Continental Divide and San Luis Valley. Temperatures 5 to 10° above normal common elsewhere.

Major activities included: Care and feeding of livestock, maintenance of equipment, preparing for 1986 planting season.

**FLORIDA:** Cold front around midweek with another at weekend brought scattered showers. Rainfall amounts moderate, generally 0.50 to 0.75 in. but locally 1.00 to 2.00 in., western Panhandle, central Peninsula. Temperatures slightly below normal.

Soil moisture variable; adequate south, northeast coastal areas, mostly short elsewhere. Sugarcane harvest very active. Small grain fair to good. Tobacco beds being prepared. Land preparation active for spring crops. Pasture conditions generally poor to fair except mostly good lower Peninsula. Dry weather affecting winter small grains, pastures central, west central Peninsula. Cattle condition fair to good lower Peninsula, mostly fair elsewhere. Supplemental feeding active. Most citrus groves good condition. Rain, irrigation helped minimize dehydration of foliage, some foliage loss on young trees, little to no wood damage from below freezing temperatures on 26th, 27th. Harvest active all areas. Temperatures nearly returned to seasonal norms vegetable areas. Readings much warmer than a week earlier with daytime highs 70s, 80s; nighttime lows ranged from upper 40s to low 60s. Rainfall light, scattered with amounts up to 1.50 in. received some areas. Winds light to moderate. Vegetable crops generally good condition following previous week's cold temperatures. Cold damage limited; losses generally light. Cucumbers, squash southwest, Ft. Pierce-Stuart areas received heaviest damage. Salvage operations active. Some spot damage strawberries Hillsborough-Manatee area from earlier cold where water coverage inadequate; light bloom and fruit drop, volume holding about steady.

**GEORGIA:** Temperatures 2° below normal north to 5° above normal southeast. Temperatures upper 60s to low 70s central and south late week. Cold front across State over weekend dropping temperatures into teens north and 20s south morning 6th. Some mountain areas reported lows in single digits. Rain totals 0.50 to 1.00 in. except 1.00 to 2.00 in. over extreme south. Most

rain over north and central occurred during 24-hour period ending New Year's morning.

Soil moisture adequate, except surplus central, southeast. Main activities planting small grains, land preparation, harvesting cotton and soybeans. Rain and wet soils limited land preparation and further delayed cotton and soybean harvest some areas. Small grains poor to mostly good. Pastures rated poor to mostly fair. Cattle fair to good. Hogs mostly good to excellent.

**HAWAII:** Crops continued to make fair progress under mostly sunny skies. Islands experienced light rainfall over windward and mountain areas. Northeasterly winds 10 to 20 mph with gusts to 30 mph midweek. Harvesting of bananas steady. Papaya orchards good to fair condition; harvesting continued light. Cool temperatures keeping vegetable output light to moderate. Pineapple harvesting for fresh sales continued on a sporadic basis.

**IDAHO:** High pressure area that caused cold stagnant air in valleys during most of December finally gave way to approaching Pacific storm system on 1st. Storm produced light to moderate amounts of precipitation and warming temperatures. High temperatures that had been in teens and twenties were in 30s and 40s last 3 days of week.

Minimal farm activity due to weather. Primarily livestock care, feeding and marketing. Early lambing continued.

**ILLINOIS:** Temperatures 2 to 50 above normal, except for northeast 1 to 40 below normal. Precipitation below normal; total none to 0.50 in., mostly northern third.

**INDIANA:** Temperatures averaged 1 to 30 above normal. Highs low 30s north to low 40s south. Lows averaged teens to mid 20s. Precipitation light, averaging less than 0.10 in.

Limited harvesting continued on frozen ground. Corn 96% harvested, 100% 1984, 100% avg. Soybeans 99% combined, 100% 1984, 100% avg. Other activities: Hauling manure, cutting wood, repairing equipment, caring for livestock and doing usual chores.

**IOWA:** Mild, dry week. Temperatures varied from near normal northeast to 90 above normal southwest. Snow cover exceeded 15 in. northeast tapering off to 1 in. or less south and southwest. Over southwest temperatures rose to low to mid 40s at midweek but over snow cover, north and eastward. Highs 20s and 30s. Lowest near zero at weekend. Snow 2nd over northeast with amounts to 13 in. at Fayette.

**KANSAS:** No significant precipitation. Temperatures averaged 35 to 38°, ranging 6 to 110 above normal.

Open weather allowed further progress in cleaning up late harvest of soybeans, sorghum. Absence of snow cover makes winter wheat vulnerable to cold temperatures. Dust storms some western counties on idle ground.

**KENTUCKY:** Continued cool, very dry. Rainfall totals 0.10 in. or less. Mean daily temperatures averaged mid 30s, about normal.

Some cleanup harvest corn, sorghum, soybeans. Burley market reported January 6. No snow cover. Normal winter feeding chores.

**LOUISIANA:** Temperatures averaged normal to 20 above normal. Temperature extremes 250; 760. Rain totals averaged none to 1.50 in.

Activities: Winter chores, caring for livestock.

**MARYLAND & DELAWARE:** Maryland: Temperatures mostly 1 to 20 above normal but 30 below extreme west. Highs mid to upper 50s; lows low to mid 20s, teens west. Precipitation averaged 0.32 in.; ranged 0.01 to 0.60 in.

Fieldwork 3.8 days suitable. Topsoil, subsoil moisture adequate. Soybeans virtually 100% harvested, 100% 1984, 100% avg. Few fields of soybeans remain to be harvested in southern areas west of bay. Small grains good condition. Tobacco stripping nearing 70% completion.

Delaware: Temperatures 1 to 30 above normal. Highs, mostly mid 50s; lows high teens to mid 20s. Precipitation averaged 0.53 in., range 0.47 to 0.62 in.

Fieldwork 4.3 days suitable. Topsoil, subsoil moisture adequate. Soybeans 99% harvested, 100% 1984, 100% avg. Few fields of soybeans still remain to be harvested New Castle County. Small grains good condition.

**MICHIGAN:** Temperatures averaged about 10 above normal. Moderate to heavy amounts of snow across State.

Snow, cold temperatures limited fieldwork to 3.2 days. Corn 93% harvested, 100% 1984, 100% avg. Soybeans 96% harvested, 100% 1984, 100% avg. Continued snowfall ended soybean harvest. Corn harvest inched along.

**MINNESOTA:** Temperatures averaged 2 to 50 above normal. Temperature extremes -210; 360. Precipitation averaged 0.19 in. below normal to 0.15 in. above normal. Greatest weekly total 0.36 in. Snowfall averaged 1 to 5 in. Snow depth weekend 8 to 25 in.

Continued slow harvest of remaining corn. Demand for good hay exceeds supply central dairy region. Livestock condition good. Snow cover entire State providing good protection for hay fields, fall seeded grains.

**MISSISSIPPI:** Temperatures variable. Extremes 160; 770. Greatest 24-hour rainfall 2.32 in.

Fieldwork 4.0 days suitable, 2.0 1984, 2.1 avg. Soil moisture adequate. Main farm activities cutting stalks, disking, livestock care. Soybean harvest 99% completed. Pecan harvest 95% completed. Wheat planting complete. Livestock, wheat good to fair. Pasture fair. Supplies of hay and feed grains adequate.

**MISSOURI:** Temperatures averaged 60 above normal except in Bootheel which averaged 10 above normal. Precipitation light across State up to 0.10 in. northeast.

Topsoil moisture supplies 1% short, 58% adequate; 41% surplus. Open weather, frozen ground permitted farmers to continue late harvesting of row crops. Good progress reported many late northern counties. Corn 96% harvested, soybeans 92%, grain sorghum 95% harvested. Winter wheat 11% poor, 59% fair, 29% good, 1% excellent. Livestock 29% fair, 69% good, 2% excellent. Cattle losses 90% normal, 9% moderate, 1% severe. Hog losses 88% normal, 12% moderate. Hay, roughage supplies 1% short, 72% adequate, 27% surplus.

**MONTANA:** Temperatures few degrees below normal west and southwest, near 100 above normal central areas, 5 to 80 above normal eastern areas.

Heaviest precipitation over west and southwest mountains. Amounts from 0.20 to near 1.00 in. north central, central mostly dry, remainder of State about 0.10 in. Winter wheat 5% poor, 60% fair, 30% good, 5% excellent. Wind damage to winter wheat 10% none, 90% light. About 95% sheep and cattle receiving supplemental feed. Hay and roughage supplies 75% short, 25% adequate.

**NEBRASKA:** Temperatures 20 above normal Panhandle, 120 above normal central and east. Only traces of precipitation reported. Snow cover adequate Panhandle and north central. Some winterkill from wind erosion and uprooting central, southeast.

Two percent of corn remained to be harvested. Winter wheat 4% poor, 24% fair, 63% good, 9% excellent. Machinery maintenance and repair, attending meetings and farm sales, preparing cash flow statements and tax returns. Feed grain and hay supplies average or above except Panhandle and north central. Shortages on grazing and hay supplies in Panhandle and north central forced ranchers to buy feed supplies or move cattle.

**NEVADA:** Series of upper level weather disturbances cleared fog out of northern valleys and dropped widespread precipitation north and central. Rainfall heaviest northwest area. Temperatures averaged above normal statewide.

Livestock feeding requirements eased somewhat with advent of warmer weather. Some feed lots muddy however from widespread rain showers. Mild temperatures easy on newborn calves, lambs.

**NEW ENGLAND:** Precipitation mainly on 3rd; form of snow northern areas, rain across southern areas. Average (water equivalent) precipitation for week ranged from 0.52 in. over northeast Vermont to 1.25 in. over central Maine. Temperatures for week between 2 to 60 below normal across area.

Normal winter activities such as marketing potatoes, apples, shipping milk, etc.

**NEW JERSEY:** Temperatures above normal, averaging 300 north, 350 south, 380 coastal. Extremes 100; 530. Precipitation above normal, averaging 0.56 in. north, 0.80 in. south, 0.90 in. coastal. Heaviest 24-hour total 0.53 in. on 3rd, 4th. Heaviest 24-hour snowfall 2 in. on 4th, 5th. Snow on ground morning 6th 1 in. in northern areas.

Farmers caring for livestock and tending to other normal winter chores.

**NEW MEXICO:** Average temperatures from 1 to 70 above normal. Temperatures 60 northern mountains to 740 southeastern Plains. Precipitation none at most locations to 0.11 in. northwestern Plateau and western mountains.

Days suitable for fieldwork 7.0. Soil moisture 64% short, 36% adequate. Cotton 75% fair, 25% good; 98% harvested, 91% 1984, 97% avg. Barley 43% fair, 57% good. Irrigated wheat 38% fair, 62% good. Dryland wheat 20% poor, 60% fair, 20% good. Pecans 33% fair, 67% good. Chile 50% fair, 50% good. Cattle 38% fair, 62% good. Sheep 20% fair, 80% good. Range 8% poor, 69% fair, 34% good.

**NEW YORK:** Temperatures averaged 2 to 50 above normal. Average temperatures about 200 along Canadian border, mid 20s across central part of State, low 30s on Long Island and New York City. Most areas near or below normal precipitation with 0.50 in. or less. Exceptions in snow belt to east of Lake Ontario, where snow squalls dropped 1 to 2 ft. of snow and on Long Island with 1.50 to 2.50 in. of precipitation, mainly as a result of thunderstorms on January 3rd.

Farm activities included tending livestock, marketing of crops from storage, chopping wood, routine farm chores.

**NORTH CAROLINA:** Temperatures averaged 2 to 30 below normal Mountain and Southern Regions, while northern Piedmont and Coastal Regions at or 10 above normal. Rainfall ranged from 0.07 to 1.15 in. across State.

Days suitable for fieldwork 4.6. Soil moisture 18% short, 79% adequate, 3% surplus. Condition: Pasture 12% poor, 43% fair, 45% good. Wheat 25% fair, 75% good. Oats 32% fair, 68% good. Barley 33% fair, 67% good. Rye 2% poor, 26% fair, 72% good. Harvest: Soybeans 93%, 99% 1984, 96% avg. Farm feed supplies: Hay and Roughage 3% short, 92% adequate, 5% surplus. Feed grains 2% short, 92% adequate, 6% surplus. Major farm activities: Harvesting soybeans, picking cotton, preparing tobacco plantbeds, tending livestock, plowing, cutting firewood and general farm maintenance.

**NORTH DAKOTA:** New year arrived with mild snowy weather. Temperatures averaged 2 to 90 above normal. Temperatures highest west, lowest east. High temperature 380 south central on 30th and central and southwest on 2nd. Low temperature 150 below west central on 29th and central and northeast on 4th. Several windy snow storms hit during week. Southwest corner received most precipitation. Precipitation amounts above normal over entire State except east central, and southeast. Southwest most precipitation with 0.38 in. of water equivalent.

Snow cover is good news and bad news. Good news for those with fall seeded crops and alfalfa as 98% of winter wheat, 99% of rye and 99% of alfalfa has sufficient snow cover to protect them from severe weather. Bad news for livestock people as grazing land is covered. Hay supplies low to begin season and producers had to begin feeding earlier than normal. Marketing of crops and livestock slow. Some grain storage problems reported.

**OHIO:** Temperatures 2 to 40 above normal. Average highs mid 30 to 40; average lows in 20s. Precipitation light; most totals 0.10 in. or less. Most soils frozen at 4 in. depth.

Some corn and soybean fields remain to be harvested. Limited harvest of corn, soybeans.

**OKLAHOMA:** Temperatures averaged normal south central to 80 above normal northeast. No precipitation received.

Subsoil moisture 100% adequate. Topsoil moisture 5% short, 75% adequate, 20% surplus. Wheat 30% fair, 60% good, 10% excellent. Cool temperatures limited growth. Nitrogen leaching, weeds, leaf rust, tan spot major concerns. Approximately 40% grazed. Cotton 90% harvested. Light cattle death losses attributed to fluctuating temperatures, particularly western third.

**OREGON:** Week began cold and dry; ended much wetter and slightly warmer. Southern edge of State warmest and driest with temperatures 1 to 40 above normal. Over remainder of State temperatures averaged 1 to 120 below normal, progressively cooler from west to east. Precipitation up to 3.00 in. fell along central to north coast and coast range. Lesser amounts from 0.10 to 1.20 in. fell to east and south.

Soil moisture 100% adequate. East remains snow covered. Tree fruit pruning underway west. Livestock fair to good condition; supplement hay feeding much ahead of normal. Lambing, calving progressing.

**PENNSYLVANIA:** Week began cold, mild midweek, normal end of week. Average temperature 300, 30 above normal. Coldest reading zero on first day. Warmest 530 5th lower Susquehanna Valley. Average precipitation 0.14 in., 0.53 in. below normal. Greatest amounts western areas in form of snow showers.

Activities for week included hauling manure, cutting firewood and routine winter chores.

PUERTO RICO: No Data Available

SOUTH CAROLINA: Temperatures averaged about normal, some fluctuation both above and below. Rainfall light, ranging from none to few tenths.

Soybean harvest continued active as fields dried out. Harvest approaching 90% complete. Weather damage not as severe on late beans. Overall quality still poor. Other farm activities include: Final cotton scrapping, preparing tobacco plantbeds, tending livestock, general farm maintenance.

SOUTH DAKOTA: Average temperatures ranged 2 to 100 above normal. Extremes -70; 410. Black Hills high 520. Occasional light snow. Snow depths 5 to 20 in.; lower southeast.

Corn harvest continued. Corn 89% harvested, 100% 1984, 100% avg. Livestock good condition. Feed supplies short west, mostly adequate elsewhere.

TENNESSEE: Average high temperatures near to slightly above normal; average lows below normal. Precipitation occurred 31st east, amounts ranged 0.50 to 1.00 in.

Major farm activities included supplemental livestock feeding, general farm chores.

TEXAS: Rainfall scarce as series dry Pacific cold fronts moved through State. Strong flow Gulf moisture produced light rain over extreme southeastern corner 30th, and upper air disturbance triggered light rain over central, southern sections midweek. Temperatures alternated between mild, cool as fronts passed through. Rainfall much below normal. Temperatures close to normal most sections, above normal northern High Plains, south central districts.

Crops: Cotton 96% harvested, 77% 1984, 92% avg. Harvesting good progress Plains, Cross-Timbers under open weather. Harvesting virtually complete over most areas. Ginning also active. Quality decreased slightly, overall still good. Wheat 99% emerged, 100% 1984, 100% avg. Wheat 2% poor, 33% fair, 55% good, 10% excellent. Small grains again benefitted from warmer temperatures across State. Growth increased many areas, despite need for rain some parts Plains, north. Some irrigation started High Plains. Later planted fields not doing as well because lack of moisture. Greenbugs problem Cross-Timbers, treatment continued many fields. Topdressing nitrogen increased portions central, south. Heavy grazing, slow regrowth reduced forage some areas. Peanuts 99% harvested, 98% 1984, 99% avg. Harvesting continued good pace last week, virtually completed most areas. Soybeans 99% harvested, 100% 1984, 100% avg. Harvest virtually completed most areas. Few scattered fields remained along Upper Coast, Blacklands. Other Field Crops: Sugarbeets 99% harvested, 100% 1984, 100% avg. Pecans 92% harvested, 96% 1984, 94% avg. Sunflowers 100% harvested, 100% 1984, 100% avg. Oats 98% planted, 100% 1984, 100% avg.

Commercial Vegetables: Rio Grande Valley, good weather conditions allowed harvest broccoli, cabbage, other greens to make good progress. Harvest carrots light. Onions continued make good progress. San Antonio-Winter Garden, harvest cabbage, carrots, spinach continued. Only light damage reported onions from December frost. Prices fair, poor demand. Pecan harvest good progress most activity natives. Most improved varieties harvested.

Range and Livestock: Range, pasture conditions steady last week under mild temperatures. Supplemental feeding slowed slightly because improved grazing; drying conditions many areas slowed growth native pastures. Good general rain would help conditions statewide. Movement of small grains increased because shortness of forage growth. Livestock conditions improved slightly because favorable weather.

UTAH: Precipitation highly variable, ranging from zero to moderate western half of State and mostly zero eastern half except light amounts few locations northern mountains. Maximum temperatures averaged 70 below normal north half and 20 above south half. Minimums averaged 30 below north half and 30 above south half.

No farm activities other than routine farm chores. Availability of open range varies widely within State - with many ranges still open, but all livestock receiving supplemental feed. Livestock reported good condition.

VIRGINIA: Generally seasonable weather. Temperatures averaged a few degrees above normal most areas. Range from low of 140 to high of 610. Precipitation near normal. Maximum rain 0.70 in. southeast.

Days suitable for fieldwork averaged 3.7. Topsoil moisture 3% short, 91% adequate, 6% surplus. Pasture land, winter grains mostly excellent. Marketing burley, dark-fired, sun-cured tobacco. Still harvesting some corn, soybeans. Pruning orchards. Livestock mostly excellent. Weather favorable for calving, lambing. Few losses reported. Feed adequate. Taxes, record keeping, farm meetings, normal winter farm work.

WASHINGTON: Continued cold and snowy with warming trend by midweek. Average temperatures still below normal.

Days suitable for fieldwork less than 1.0. Soil moisture 30% short, 70% adequate. Range and pasture 80% short, 20% adequate. Hay supplies 40% short, 60% adequate. Tree seedling nurseries reporting heavy winterkill damage. Lambing picking up.

WEST VIRGINIA: Temperatures averaged 1 to 40 above normal. Low 00 Belington; high 600 Gary. Average temperatures 330. Precipitation averaged 0.50 to 0.73 in. below normal. Statewide average precipitation 0.09 in.

Days worked averaged 4.8. Soil moisture adequate. Feed supplies adequate to short.

WISCONSIN: Temperatures close to seasonal normals. Snowfall 5.0 to 11.0 in. central and south, 1.0 to 3.0 in. northeast. Snow depth ranged from 1.0 to 6.0 in. southeast. 25.0 to 36.0 in. north, 13.0 to 24.0 in. most other areas; averaged 14.9 in. Frost depths less than 1.0 in. central, 7.0 to 12.0 in. southeast, 1.0 to 6.0 in. other areas; average 4.0 in.

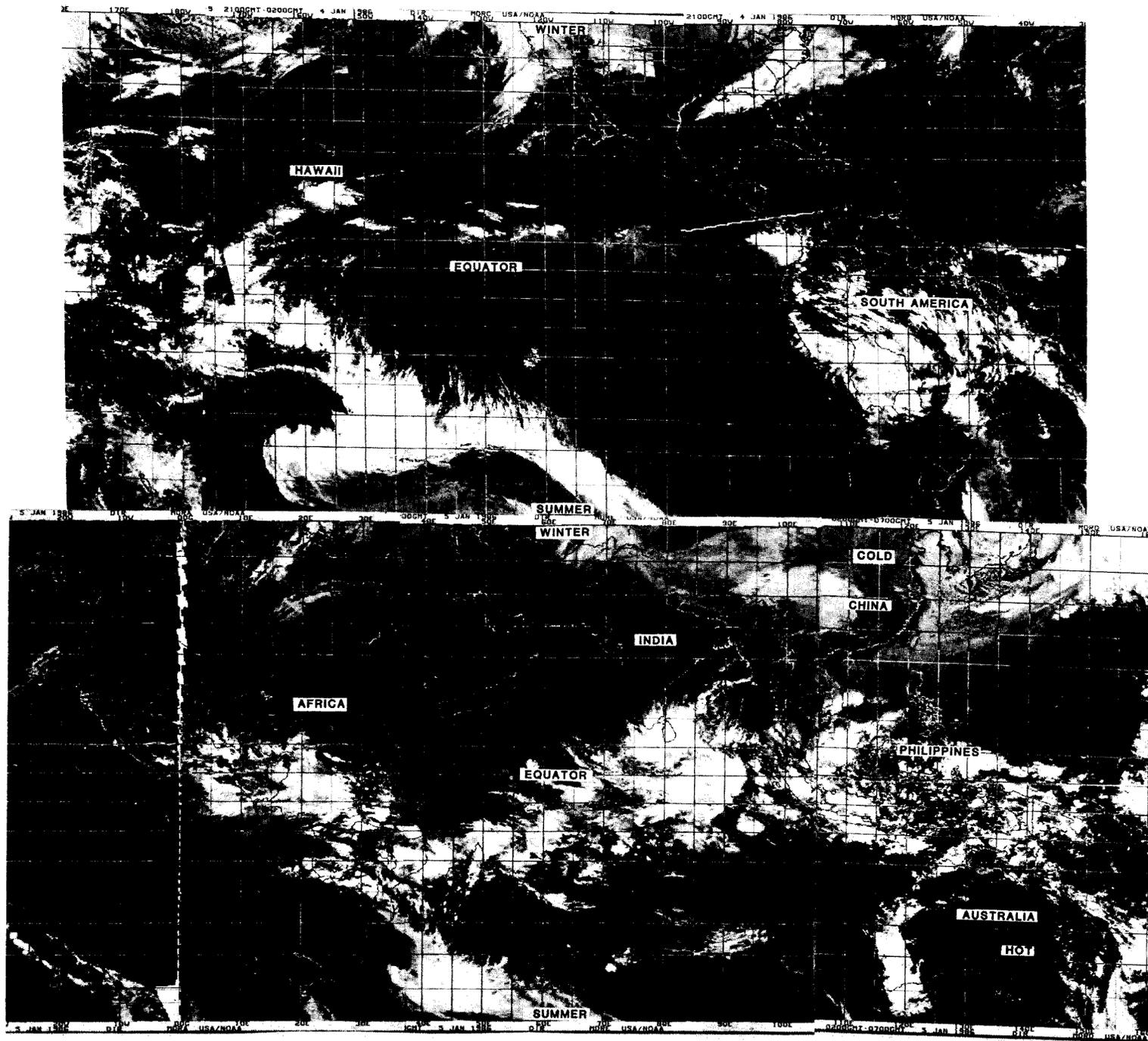
Corn harvested 80%, 100% 1984, 96% avg.; some corn for grain being harvested in deep snow, standing well in fields. Short supplies of hay and bedding some areas.

WYOMING: Temperatures above normal except northwest. Precipitation below normal.

Most areas have snow cover. Livestock fair to good condition with supplemental feeding. Warmer weather reducing stress.

# GLOBAL WEATHER SATELLITE IMAGE

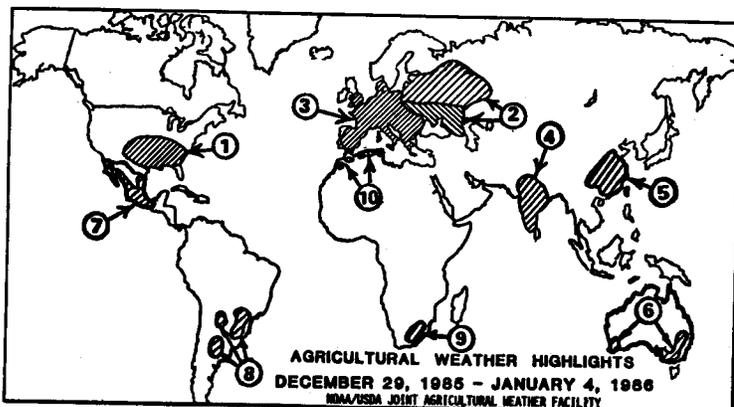
## January 5, 1986



International Weather and Crop Summary

December 29, 1985 - January 4, 1986

DECEMBER 1985  
CLIMATE ANALYSIS CENTER-NMC-NWS-NOAA  
\*\*\* = DATA NOT AVAILABLE

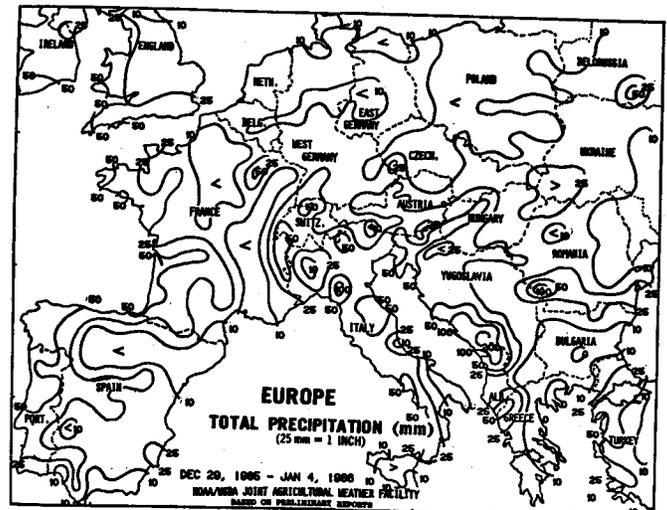
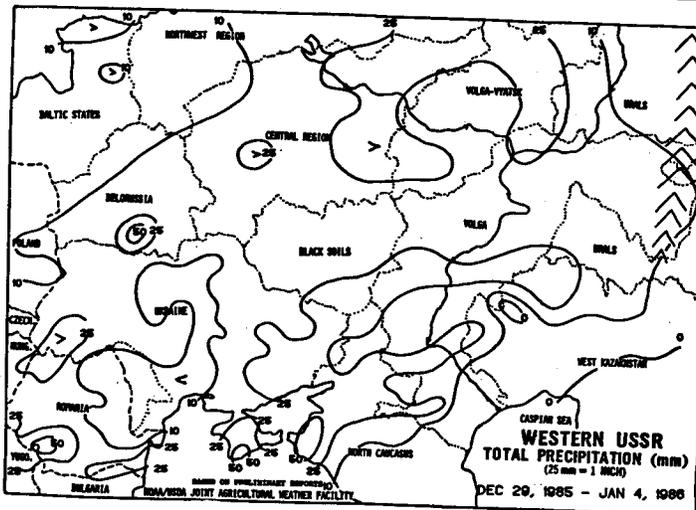


HIGHLIGHTS:

1. **UNITED STATES** ... Moderating weather across most of the Nation eases livestock stress and allows limited growth of small grains in southern areas.
2. **WESTERN USSR** ... Moderate to heavy snow blankets northern winter grain areas. Most crop areas in the Ukraine and North Caucasus lack a protective snow cover.
3. **EUROPE** ... Light precipitation covers the north while substantial rain recharges soil moisture in the south.
4. **SOUTH ASIA** ... Mostly dry weather covers the region. Major wheat areas have adequate moisture.
5. **EASTERN ASIA** ... Light rain and snow increase moisture supplies for the winter wheat region.
6. **AUSTRALIA** ... Mostly dry weather favors wheat harvesting in its late stages.
7. **MEXICO** ... Sunny skies favor crop harvesting.
8. **SOUTH AMERICA** ... Light rain offers minimal relief to stressed crops in southern Brazil. Showers maintain moist conditions for Brazil's northern soybeans and corn but slow Argentina's late wheat harvest.
9. **SOUTH AFRICA** ... Moisture is adequate for corn in the east, while western corn areas are becoming dry.
10. **NORTHWESTERN AFRICA** ... Substantial rain in Morocco and Algeria favors winter grain emergence and early growth. Rain is desperately needed in the most southern crop areas in Tunisia.

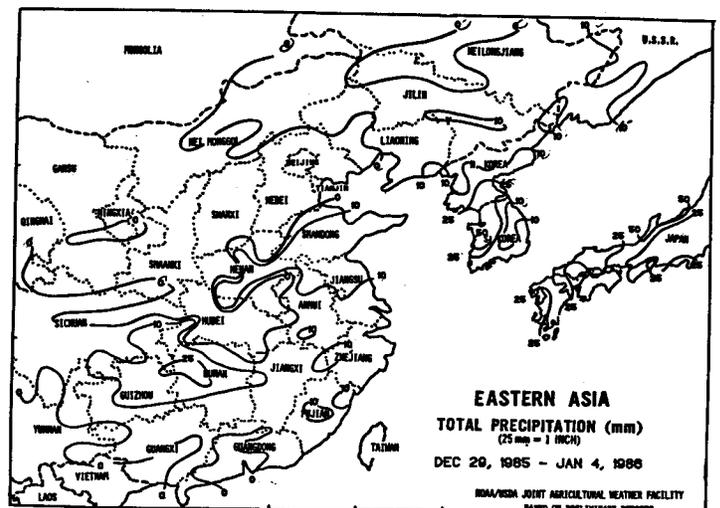
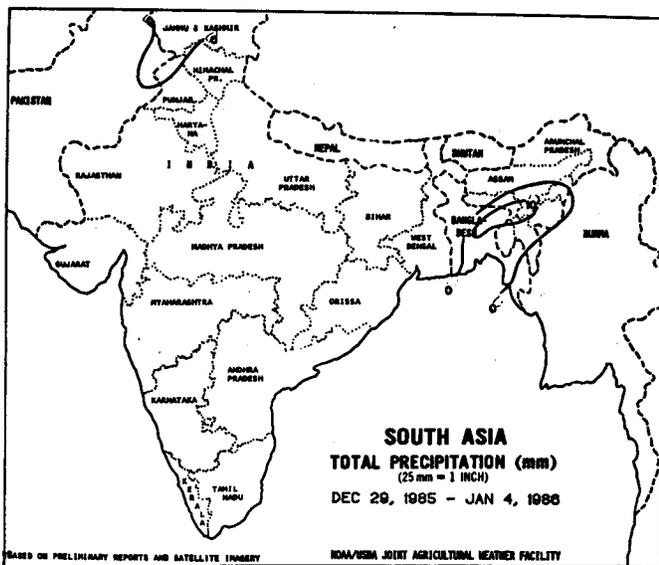
COUNTRY	CITY	TEMPERATURE (C)				PRECIPITATION (MM)	
		AVG	HI	LOW	DPART	TOTAL	DPART
NORWAY	OSLO	-10	4	-28	-4.9	70.3	2.0
SWEDEN	STOCKHOLM	-6	6	-21	-5.4	61.0	14.3
FINLAND	HELSINKI	-6	5	-22	-3.2	76.9	20.7
U KINGDOM	GLASGOW	5	14	-11	0.6	209.1	91.8
	EDINBURGH	5	15	-10	1.3	109.0	50.6
	BIRMINGHAM	6	14	-8	2.0	83.8	19.1
	LONDON	7	14	-10	2.6	102.2	25.5
IRELAND	DUBLIN	7	16	-5	1.1	72.6	-6.3
ICELAND	REYKJAVIK	-1	4	-11	-1.2	24.7	-51.4
DENMARK	COPENHAGEN	3	10	-8	0.2	129.0	80.0
LUXEMBOURG	LUXEMBOURG	3	13	-8	1.9	67.2	-9.2
SWITZERLAND	ZURICH	4	14	-5	3.5	72.3	-2.8
	GENEVA	3	16	-7	1.1	46.5	-33.9
FRANCE	PARIS	6	16	-8	1.9	27.7	-23.1
	STRASBOURG	5	16	-8	2.8	50.4	17.5
	BOURGES	4	19	-12	0.4	59.2	-1.7
	BORDEAUX	6	20	-7	0.1	100.8	-3.1
	TOULOUSE	5	17	-7	-0.4	50.5	-8.3
SPAIN	MARSEILLE	9	17	-3	1.5	78.4	15.4
	VALLADOLID	6	21	-3	1.7	41.8	1.0
	MADRID	6	19	-4	-0.1	71.1	25.2
E GERMANY	SEVILLA	12	23	4	1.2	50.3	-27.5
	LEIPZIG	5	17	-8	3.2	55.3	18.1
W GERMANY	DRESDEN	5	16	-8	4.3	67.7	30.7
	HAMBURG	5	13	-8	2.5	81.2	10.5
	BERLIN	4	14	-9	2.8	60.9	11.9
	DUSSELDORF	7	16	-5	3.4	84.7	26.8
	STUTTGART	4	17	-9	3.2	43.2	-3.1
	NURNBERG	4	15	-12	3.7	61.3	11.9
	MUNICH	3	17	-10	3.7	49.6	-2.3
AUSTRIA	VIENNA	3	11	-5	2.2	69.2	32.1
CZECH	INNSBRUCK	2	12	-7	3.0	41.2	-10.7
	PRAGUE	3	13	-6	3.5	34.6	10.3
POLAND	WARSAW	2	12	-11	2.3	78.4	46.1
	LODZ	2	13	-10	3.1	75.6	33.7
	KATOWICE	3	14	-12	3.9	58.4	14.5
HUNGARY	PRZEMYSL	3	13	-7	3.6	64.3	24.4
	BUDAPEST	4	15	-2	3.2	33.9	-6.4
YUGOSLAVIA	SARAJEVO	1	15	-8	1.7	60.9	-43.0
ROMANIA	BUCHAREST	2	17	-6	1.9	22.3	-24.2
BULGARIA	SOFIA	4	17	-6	3.9	11.1	-51.3
	MILAN	4	12	-4	1.9	50.4	-15.8
ITALY	VERONA	5	10	-2	2.8	63.4	12.1
	VENICE	5	11	-2	1.3	36.4	-29.7
	GENOA	12	18	4	2.4	110.4	3.0
	ROME	11	19	-1	2.1	78.4	-8.0
	NAPLES	11	19	2	2.3	38.6	-80.1
GREECE	THESSALONIKA	9	18	-1	1.5	24.0	-30.7
	LARISSA	8	20	-3	1.3	15.4	-41.3
	ATHENS	13	20	5	0.6	38.9	-29.0
TURKEY	ISTANBUL	9	16	0	1.2	56.1	-34.9
	ANKARA	0	13	-12	-1.6	28.7	-0.3
CYPRUS	LARNACA	14	22	2	-0.2	82.1	-21.0
USSR	TALLINN	-4	6	-15	-1.7	87.1	39.6
	LENINGRAD	-6	5	-17	-1.5	51.5	7.9
	KAUNAS	-2	8	-15	0.1	46.1	1.6
	MINSK	-3	8	-16	0.3	54.3	11.6
	KAZAN	-10	1	-29	-0.5	81.7	48.3
	MOSCOW	-7	4	-24	-0.6	74.2	30.4
	SVERDLOVSK	-12	-1	-28	0.0	53.7	31.9
	OMSK	-13	-2	-26	1.4	40.4	23.8
	KUSTANAY	-13	1	-28	0.1	28.2	10.5
	KRASNOYARSK	-17	1	-33	-2.2	11.1	-13.0
	NOVOSIBIRSK	-14	-3	-28	2.1	25.3	2.4
	BARNAUL	-13	-1	-25	1.1	19.3	-12.9
	KHABAROVSK	-22	-10	-33	-4.0	5.7	-12.9
	VLADIVOSTOK	-12	1	-26	-2.5	1.4	-15.0
KIEV	-2	9	-20	0.2	32.9	-11.0	
LVOV	1	12	-14	2.7	67.4	13.0	
KIROVOGRAD	-2	8	-17	0.2	32.4	-8.0	

COUNTRY	CITY	TEMPERATURE (C)				PRECIPITATION (MM)		COUNTRY	CITY	TEMPERATURE (C)				PRECIPITATION (MM)	
		HI	LOW	DPART	F/NRM	TOTAL	DPART F/NRM			HI	LOW	DPART	F/NRM	TOTAL	DPART F/NRM
USSR	ODESSA	2	13	-9	0.1	20.8	-24.0	GABON	LIBREVILLE	26	30	22	-0.1	208.5	-127.2
	YALTA	5	16	-4	-0.7	87.5	7.5	TOGO	LOME	27	34	16	0.1	0.8	-2.2
	VORONEZH	-6	4	-22	-1.0	29.2	-19.0	UPPER VOLTA	OUAGADOUGOU	24	38	13	-1.5	0.0	0.0
	SARATOV	-6	2	-19	1.5	40.2	9.1	IVORY COAST	ABIDJAN	26	32	17	-0.5	29.3	-72.0
	KHARKOV	-4	5	-20	-1.3	27.9	-17.1	MOZAMBIQUE	MAPUTO	26	36	18	0.6	49.0	-37.1
	VOLGOGRAD	-4	2	-19	0.6	42.1	-2.9	ZAMBIA	KABWE	22	29	16	0.4	514.5	263.4
	ROSTOV	-2	6	-17	-0.9	46.9	-16.2	ZIMBABWE	HARARE	21	29	11	0.3	181.9	-3.2
	ASTRAKHAN	-2	5	-11	0.8	11.8	-3.7	S AFRICA	PRETORIA	22	32	13	0.5	120.6	9.4
	KRASNODAR	2	12	-13	-0.1	81.4	6.4		KROONSTAD	21	34	9	-0.6	63.3	-31.7
	ORENBURG	-9	2	-26	0.6	33.2	1.8		JOHANNESBURG	19	29	10	0.4	108.0	0.1
	TSELINOGRAD	-11	2	-24	3.9	32.0	22.3		BETHAL	19	29	10	-0.4	141.4	16.4
	KARAGANDA	-10	4	-22	2.1	22.5	4.7		DURBAN	24	31	17	-1.1	110.5	5.5
	TBILISI	3	16	-4	-0.9	11.3	-12.4		CAPE TOWN	20	34	11	0.7	9.0	-7.0
	TASHKENT	5	24	-6	2.6	36.1	-16.3	CANADA	TORONTO	-5	12	-18	-1.3	36.8	-27.9
	ASHKHABAD	5	25	-6	1.7	35.5	13.8		MONTREAL	-8	7	-27	-1.4	57.8	-28.8
SYRIA	DAMASCUS	8	26	-6	0.1	2.9	-43.5		WINNIPEG	-18	3	-32	-3.9	13.8	-5.4
ISRAEL	JERUSALEM	11	29	1	0.6	43.2	-67.7		REGINA	-14	4	-33	-1.2	15.8	-0.9
PAKISTAN	KARACHI	20	33	4	0.4	0.0	-7.7		SASKATOON	-12	6	-31	0.8	14.0	-4.3
INDIA	AMRITSAR	14	30	-2	1.1	75.0	60.1		LETHBRIDGE	-3	10	-31	2.4	11.3	-10.5
	NEW DELHI	17	27	5	1.0	41.9	34.4		CALGARY	-3	15	-31	5.0	8.4	-8.1
	AHMEDABAD	22	32	11	0.9	0.0	-1.9		EDMONTON	-5	9	-27	5.4	29.6	4.9
	INDORE	20	30	7	1.2	0.0	-9.2		VANCOUVER	2	9	-12	-2.1	54.0	-128.4
	CALCUTTA	21	31	11	0.9	0.0	-3.0	MEXICO	GUADALAJARA	15	26	3	-0.5	0.8	-15.8
	VERAVAL	24	34	10	0.5	0.0	-1.3		MEXICO CITY	15	24	5	2.1	0.1	-16.2
	BOMBAY	26	35	16	0.6	0.0	-0.9		ACAPULCO	26	33	18	-1.1	0.0	-7.4
	POONA	21	32	8	0.0	0.0	-4.5	BERMUDA	ST. GEORGES	20	25	16	1.4	123.3	7.2
	BEGAMPET	23	32	12	1.6	3.0	-2.6	BAHAMAS	NASSAU	22	30	10	0.7	92.1	44.2
	MADRAS	25	31	19	0.3	124.4	-15.0	CUBA	HAVANA	23	31	14	1.1	24.6	-25.0
	MANGALORE	28	35	19	0.7	7.4	-10.6	JAMAICA	KINGSTON	27	32	20	0.3	10.1	-27.8
HONG KONG	HONG KONG	17	26	10	-0.4	13.0	-12.7	PUERTO RICO	SAN JUAN	25	29	19	-0.6	51.8	-61.5
NORTH KOREA	PYONGYANG	-8	5	-22	-3.3	37.7	15.6	GUADELOUPE	RAIZET	25	30	18	0.8	36.6	-64.7
SOUTH KOREA	SEOUL	-3	8	-14	-1.7	35.4	3.4	MARTINIQUE	LAMENTIN	26	30	22	1.6	****	****
JAPAN	SAPPORO	-4	9	-13	-2.1	128.5	23.6	BARBADOS	BRIDGETOWN	26	29	21	-0.3	55.8	-47.0
	NAGOYA	6	15	-3	-0.2	21.5	-26.6	TRINIDAD	PORT OF SPAIN	26	31	19	0.5	151.9	16.6
	TOKYO	8	19	-1	0.1	18.5	-37.9	COLOMBIA	BOGOTA	12	21	-4	-0.8	46.5	5.6
	YOKOHAMA	8	18	-1	0.5	27.5	-38.5	VENEZUELA	CARACAS	25	31	20	-0.1	95.0	31.2
	KYOTO	6	15	-2	0.2	41.8	-11.2	FR GUIANA	CAYENNE	26	30	21	0.4	98.4	-238.7
	OSAKA	7	16	-1	-0.8	37.0	-5.1	BRAZIL	FORTALEZA	27	32	20	-0.8	95.1	46.0
THAILAND	PHETCHABUN	23	34	11	0.4	0.0	0.0		RECIFE	26	32	17	-0.2	63.2	10.3
	BANGKOK	26	34	16	0.1	0.0	-10.9		BELO HORIZONTE	22	32	14	-0.4	299.0	18.1
MALAYSIA	KUALA LUMPUR	27	33	16	0.7	256.1	26.2		CAMPO GRANDE	28	37	17	3.0	44.5	-146.5
VIETNAM	HANOI	19	29	10	0.4	8.4	-11.9		FRANCA	23	36	12	1.5	208.0	-62.0
CHINA	HARBIN	-19	-2	-33	-2.0	5.8	0.0		RIO DE JANEIRO	25	34	19	0.0	174.4	37.5
	HAMI	-7	2	-17	0.9	0.0	-0.5		LONDRINA	26	36	15	2.8	52.1	-163.6
	LANCHOW	-3	7	-12	2.1	0.3	-0.9		SANTA MARIA	26	38	12	2.2	12.0	-110.9
	BEIJING	-3	8	-15	-1.0	0.1	-2.5		PORTO ALEGRE	26	37	16	2.6	138.0	50.1
	TIENTSIN	-3	8	-13	-1.1	6.0	2.3	PERU	LIMA	22	28	10	1.6	1.6	1.6
	LHASA	1	14	-11	1.3	0.0	0.0	BOLIVIA	LA PAZ	8	18	2	-1.5	141.3	39.9
	KUNMING	9	18	-3	0.8	0.2	-12.9	CHILE	SANTIAGO	19	33	8	-0.5	0.0	-2.4
	CHENGCHOW	0	14	-10	-0.4	11.4	1.9	ARGENTINA	IGUAZU	28	39	15	****	21.0	****
	YEHCHANG	6	19	-3	-1.4	3.9	-19.2		FORMOSA	29	41	18	2.0	91.2	-27.8
	HANKOW	4	15	-8	-1.5	8.3	-22.7		CERES	25	37	12	0.8	166.3	41.3
	CHUNGKING	8	22	1	-2.1	17.7	-8.1		CORDOBA	23	35	11	0.5	235.3	97.0
	CHIHKIANG	6	17	-3	-1.5	32.1	-3.7		RIO CUARTO	23	46	12	1.2	167.8	26.5
	WU HU	4	17	-6	-2.7	20.9	-17.2		ROSARIO	23	36	14	0.6	212.7	103.9
	SHANGHAI	5	19	-4	-1.3	14.1	-26.9		BUENOS AIRES	22	33	9	0.4	75.0	-9.8
	NANCHANG	6	17	-3	-1.9	17.0	-30.2		SANTA ROSA	22	33	6	-0.6	72.3	-2.3
	TAIPEI	17	27	6	0.2	152.3	78.4		TRES ARROYOS	20	33	6	0.5	146.7	77.0
	CANTON	15	28	3	-0.5	5.9	-20.4	MIDWAY IS	MIDWAY ISLAND	21	26	14	0.7	70.5	-133.1
	NANNING	15	26	4	0.3	0.3	-26.2	N CALEDONIA	NOUMEA	25	32	19	0.1	64.0	-0.4
CANARY IS	LAS PALMAS	19	27	13	1.1	14.0	-15.9	FIJI	NAUSORI	25	31	18	-0.2	59.5	-297.6
MOROCCO	CASABLANCA	15	30	7	2.3	30.4	-67.2	SAMOA	PAGO PAGO	28	33	21	0.9	139.3	-220.3
	MARRAKECH	14	28	5	2.5	19.0	-13.6	TAHITI	PAPEETE	27	32	21	0.4	440.5	185.6
ALGERIA	ALGER	13	24	2	1.3	73.4	-48.4	NEW ZEALAND	AUCKLAND	19	25	12	0.8	142.1	54.5
	BATNA	7	16	-3	0.9	23.8	-6.2		WELLINGTON	16	22	8	1.3	112.2	17.0
TUNISIA	TUNIS	14	22	3	1.4	7.9	-44.5	PAPUA N GUI	PORT MORESBY	28	33	22	-0.2	39.8	-104.4
NIGER	NIAMEY	24	37	14	-0.7	0.0	0.0	AUSTRALIA	DARWIN	30	35	25	1.4	97.0	-140.1
MALI	TIMBUKTU	21	36	7	-1.2	0.0	0.0		MOREE	26	37	18	0.9	121.0	60.1
	BAMAKO	25	37	12	0.0	0.0	0.0		BRISBANE	26	35	15	1.3	42.6	-103.1
MAURITANIA	NOUAKCHOTT	24	39	10	1.9	1.0	-5.5		PERTH	20	37	8	-2.5	37.6	25.7
SENEGAL	DAKAR	24	38	16	1.2	0.5	0.5		CEDUNA	20	37	12	-0.5	29.0	12.0
CHAGOS ARCH	DIEGO GARCIA	28	32	23	0.7	442.3	177.7		ADELAIDE	19	35	11	-1.2	30.8	4.0
LIBYA	TRIPOLI	14	24	4	0.7	49.2	-17.1		MELBOURNE	17	28	9	-0.9	113.4	65.5
	BENGHAZI	15	22	9	1.4	62.8	-2.4		WAGGA	20	31	12	-1.5	59.0	10.0
EGYPT	CAIRO	16	27	8	0.4	10.2	3.2		CANBERRA	18	30	6	-0.7	24.2	-30.2
	ASWAN	19	32	7	1.6	0.0	0.0	INDONESIA	DJAKARTA	28	34	22	0.4	225.2	68.0
ETHIOPIA	ADDIS ABABA	15	29	2	-1.4	0.4	-17.9	PHILIPPINES	MANILA	26	37	18	0.4	3.0	-58.7
KENYA	NAIROBI	20	30	10	0.2	27.1	-44.2								
TANZANIA	DAR ES SALAAM	27	34	21	0.1	85.9	-14.9								



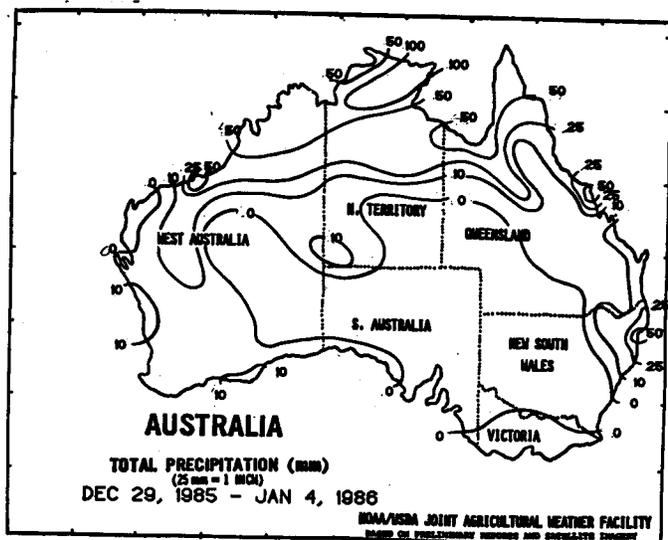
**WESTERN USSR...** Precipitation occurred almost every day at most locations. Moderate to heavy snow fell over the northern two-thirds of the region, resulting in a substantial increase in snow cover, particularly in Belorussia, the Central Region, and the Volga Vyatsk Region. Rain (10 to 30mm) covered much of the Ukraine, North Caucasus, and the lower Volga, recharging soil moisture. However, most winter grains in these areas lack a protective snow cover, leaving the crop vulnerable to cold weather. Weekly temperatures were above normal in most areas except in the northwest where temperatures were below normal.

**EUROPE...** Widespread precipitation covered much of the region. Most of the precipitation fell as snow in the northeast and the Alps, mixed rain and snow in north-central crop areas, and rain in the west and south. Winter grains in Spain continued to receive beneficial showers while moderate rain persisted in southern France, recharging soil moisture. Rains were the heaviest on the Adriatic coasts of Yugoslavia and Albania where rainfall amounts generally ranged from 100 to 200mm, with isolated amounts in excess of 200mm. Local flooding is likely in these areas. Significant amounts of rain (20 to 50mm) in winter grain areas in southern Romania and northern Bulgaria were highly beneficial, recharging soil moisture. Weekly temperatures were below normal in the extreme north and west and above normal in the south.

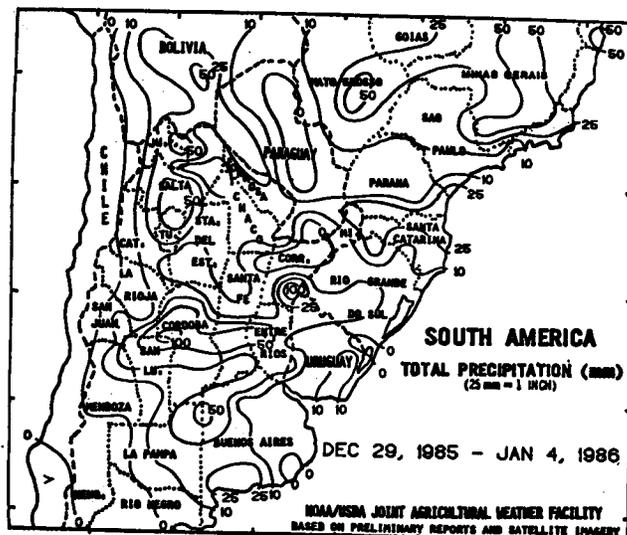


**SOUTH ASIA...** Seasonable, dry weather covered central and southern India. Very light showers (1 to 10mm) fell in extreme northern wheat areas of Pakistan and India. Following beneficial rain during the past 3 weeks, moisture is adequate for northern wheat nearing the heading stage. Moisture is limited for wheat in Madhya Pradesh where less irrigation is available.

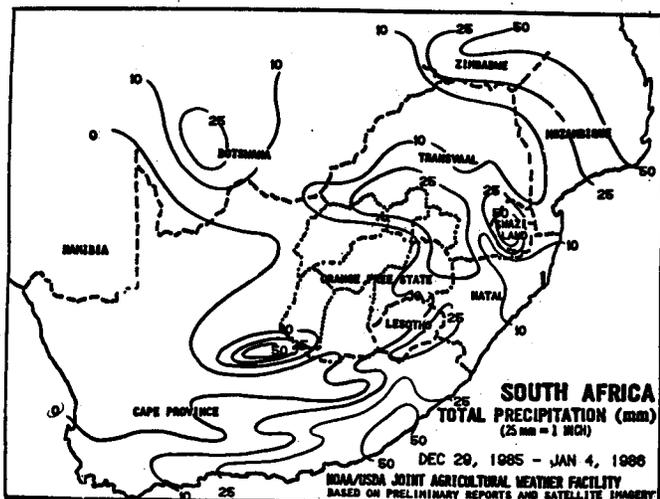
**EASTERN ASIA...** Moderate precipitation (10 to 20mm) fell in the North China Plain early in the week. As the frontal system moved through the region, rain turned to light snow. Most of the snow melted as temperatures warmed by midweek. The precipitation will benefit moisture supplies for spring growth. Late in the week, cold air with lows reaching -16C plunged into Hebei and Shandong. Light to moderate rain (10 to 25mm) covered much of the south, benefiting winter crops.



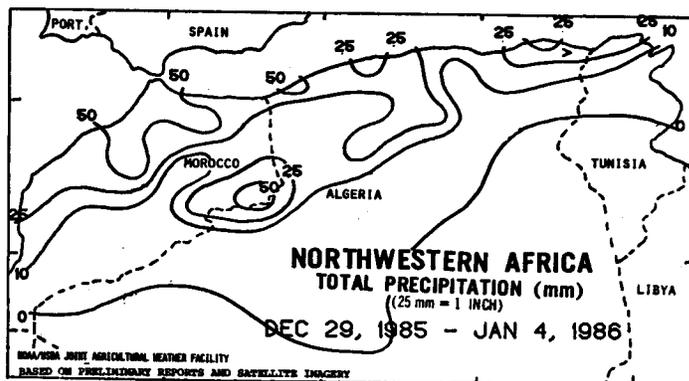
**AUSTRALIA**...Mostly dry weather in New South Wales, Victoria, and South Australia favored wheat harvesting, which normally winds down in January. Light showers (5 to 20mm) in northern New South Wales and southeastern Queensland favored summer crops. Light showers (1 to 10mm) fell in Western Australia where wheat harvesting should be in its late stages. Very warm weather (36C) occurred in the east early in the week, but cooler weather returned by midweek. Tropical moisture (25-100mm) covered northern Australia. Moderate rain fell along the northeastern coastal sugar areas.



**SOUTH AMERICA**...Some rain fell over most crop areas of Argentina and south-central Brazil. Weekly totals were less than 10mm over Brazil's chronically dry soybean areas of western Rio Grande do Sul and Parana, leaving those areas with a severe moisture deficiency for crop development. Some beneficial rain (12 to 30mm) fell in central Rio Grande do Sul, Santa Catarina, and Sao Paulo providing some limited but temporary relief. More rain fell across northern soybean areas, maintaining moist conditions. In Argentina, weekly rainfall amounts averaged 15 to 60mm over all crop areas, except in eastern Buenos Aires where 6mm or less were reported. The showers kept soils moist for summer crop growth but slowed late wheat harvesting and sorghum planting in northwestern Buenos Aires, northeastern La Pampa, and central Cordoba.



**SOUTH AFRICA**...Significant rain fell in the east while only light showers fell in major western corn areas. Moderate rain (25 to 45mm) in the eastern Transvaal was very timely for early planted corn entering the reproductive stage. Beneficial rain during the last 3 weeks has improved the eastern corn region. Light showers (1 to 10mm) covered most of the Orange Free State where moisture is adequate. Light showers also fell in the West Transvaal; however, warm weather returned to the west and high temperatures of 35C evaporated limited soil moisture.



**NORTHWESTERN AFRICA**...Substantial rain (25 to 61mm) in Morocco and Algeria favored winter grain emergence and early growth. In Tunisia, beneficial showers in the north (13 to 32mm) improved conditions for winter grains. However, conditions in southern winter grain areas remained unfavorably dry for sowing. Temperatures over the entire region ranged somewhat above normal.

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## MEXICO

**MEXICO**...Dry weather covered the entire country during the week. Satellite photos, supplementing incomplete station reports, show a virtually cloud-free week over most agricultural areas. The sunny skies favored harvesting of west coast vegetables, Southern Plateau corn and citrus, sugarcane, coffee, and vegetables along the east coast.

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