

WEEKLY WEATHER AND CROP BULLETIN

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

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

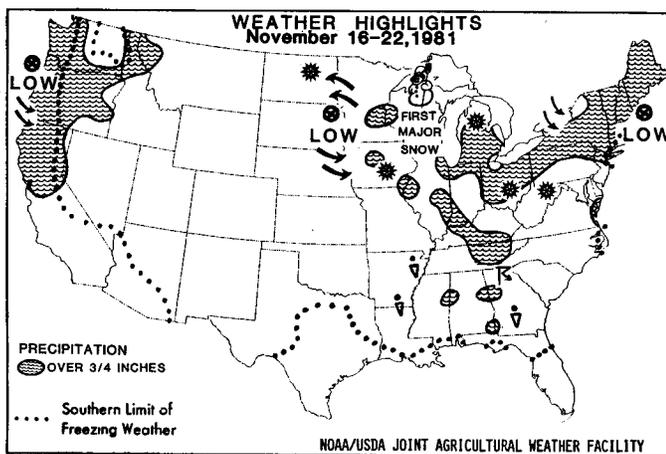
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Nov. 24, 1981

National Weather Summary

November 16-22, 1981



HIGHLIGHTS: A low pressure center, deepening in the northern Plains, brought frigid air southward and freezing rain and snow around the low as it moved through the Great Lakes. The cold front brought showers to most of eastern United States from the lower Mississippi Valley through Georgia. Freezing temperatures pushed into western Texas and throughout the East except for southern Texas and Florida south of the Panhandle. Low pressure centers off both the Northwest and Northeast coasts kept showers in those areas nearly all week.

MONDAY...Weather conditions remained nearly the same as the day before. A large parent low pressure center in the Gulf of Alaska spawned another storm which moved onto the Pacific coast. Moderate to heavy rain fell from south-central California through the Pacific Northwest to western Montana. Snow accumulated at levels above about seven thousand feet. In the East, another low pressure center off the New England coast and a cold front reaching from the western Carolinas through the Southeast spread rain from Kentucky and Virginia through Florida and northward from Virginia through the Northeast.

TUESDAY...The precipitation pattern remained about the same in the West and Northwest but spread into the northern Plains. The rain abated somewhat along the coast of Washington and Oregon but gale force winds continued. The eastern storm centered over Nova Scotia and spread rain over most of northeastern United States. Temperatures were unusually warm from Arizona and Utah into the central Plains but remained in the thirties across the extreme northern Plains.

WEDNESDAY...The Pacific storm that drenched the northwestern States moved through the Rockies and

into the Plains and was followed by much colder air. Snow spread from Montana to upper Michigan and freezing rain reached into Nebraska. Light rain covered the periphery of the snow area and bridged over to the Northeast where the Atlantic storm covered the Northeast from Pennsylvania through New England. It was unusually warm from the southern Plains into the Ohio Valley.

THURSDAY...Strong northerly winds were ushering in much colder air from the northern Plains and Great Lakes to Texas while southerly winds bore moisture and rain northward from the Gulf of Mexico into the Northeast. Light snow continued through the central and northern Plains and the northern Great Lakes. A new storm system brought rainshowers to northern Pacific coast region. The unusually warm area was confined to the Southeast and extreme Southwest.

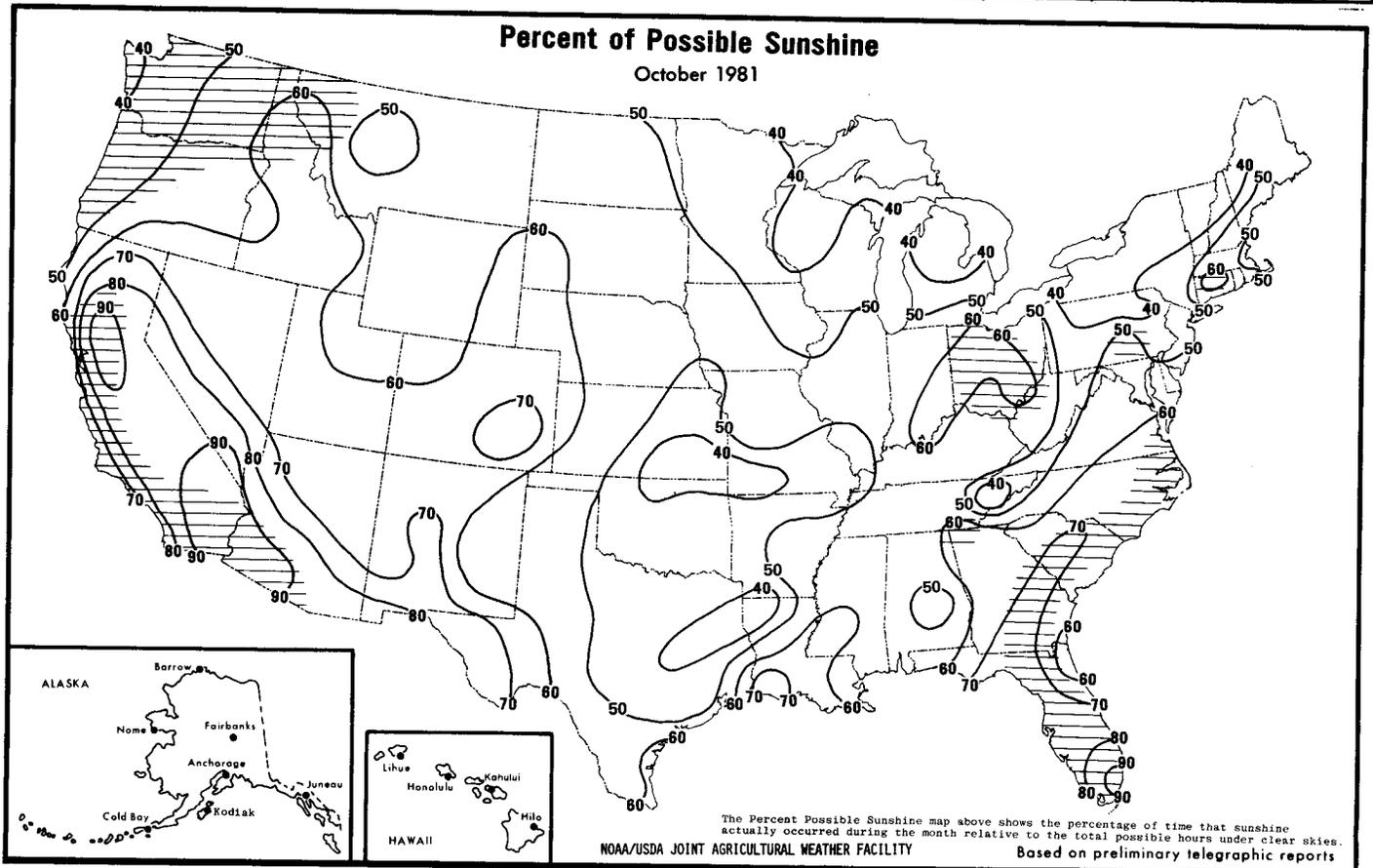
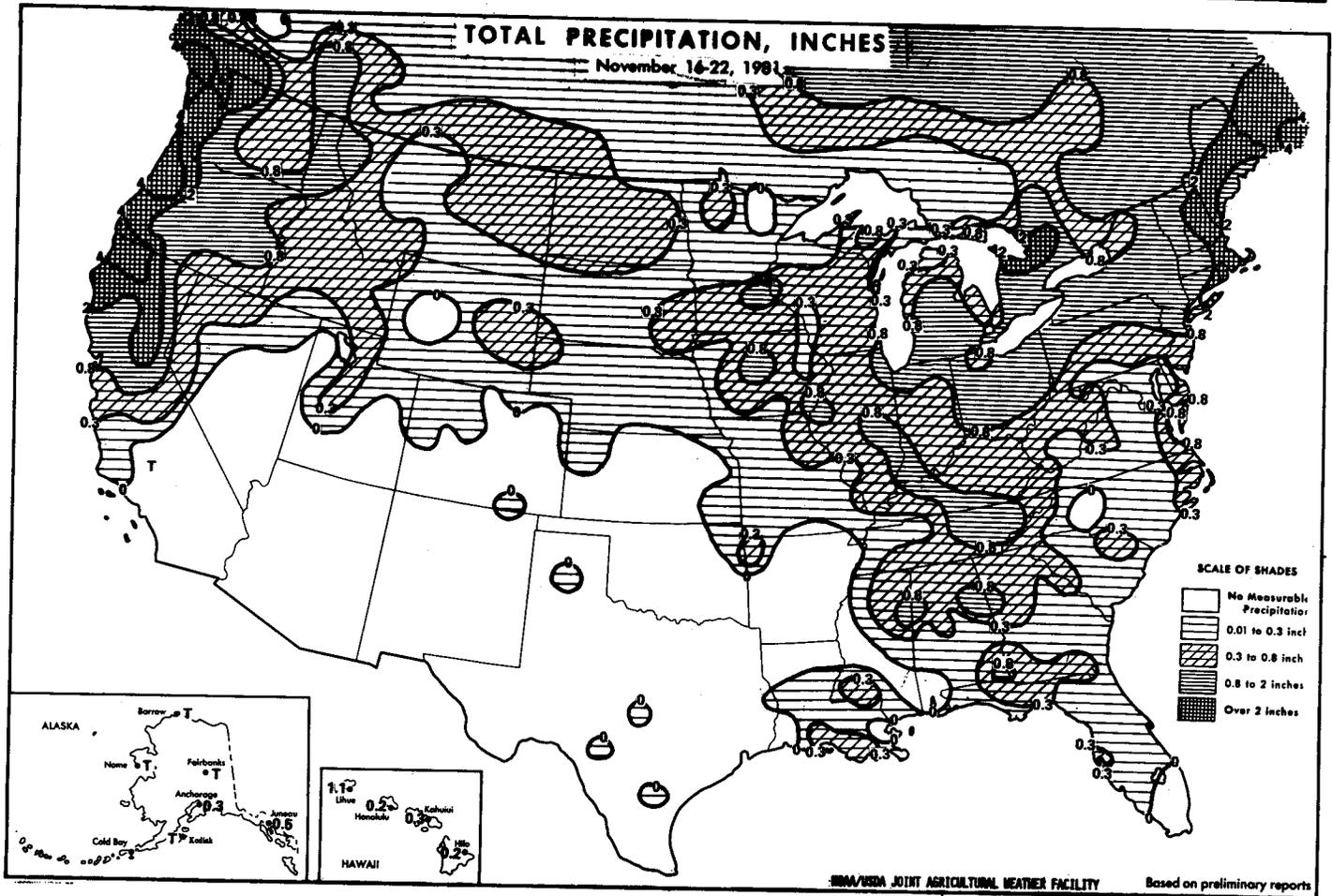
FRIDAY...An intense low pressure system over the Great Lakes continued to spread snow over the upper Mississippi Valley and Great Lakes and rain from the Ohio Valley and Carolinas through the Northeast. Late in the day the rain changed to snow from the Lakes to the Ohio Valley. The next Pacific storm spread showers from northern California through the Northwest to the northern Rockies.

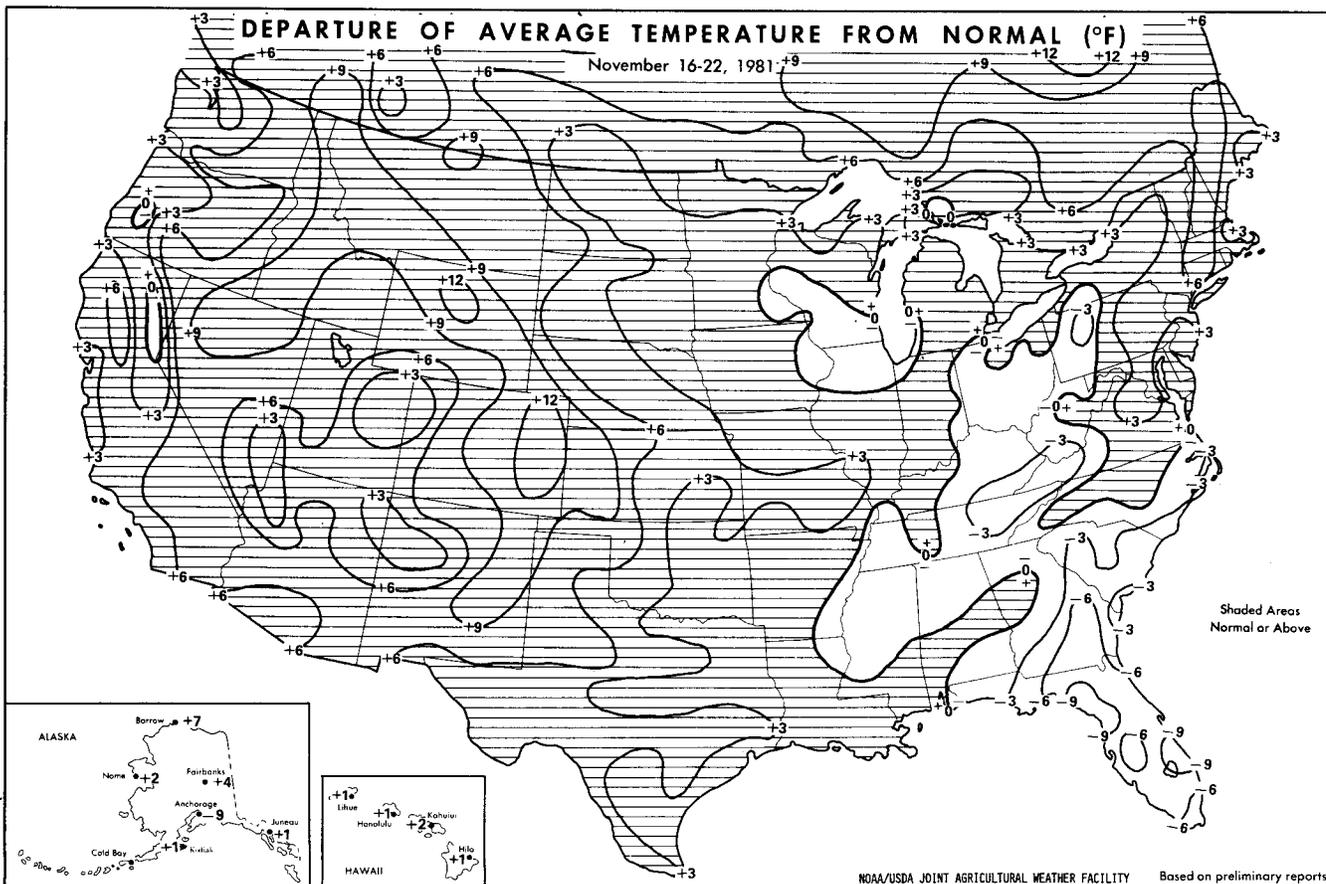
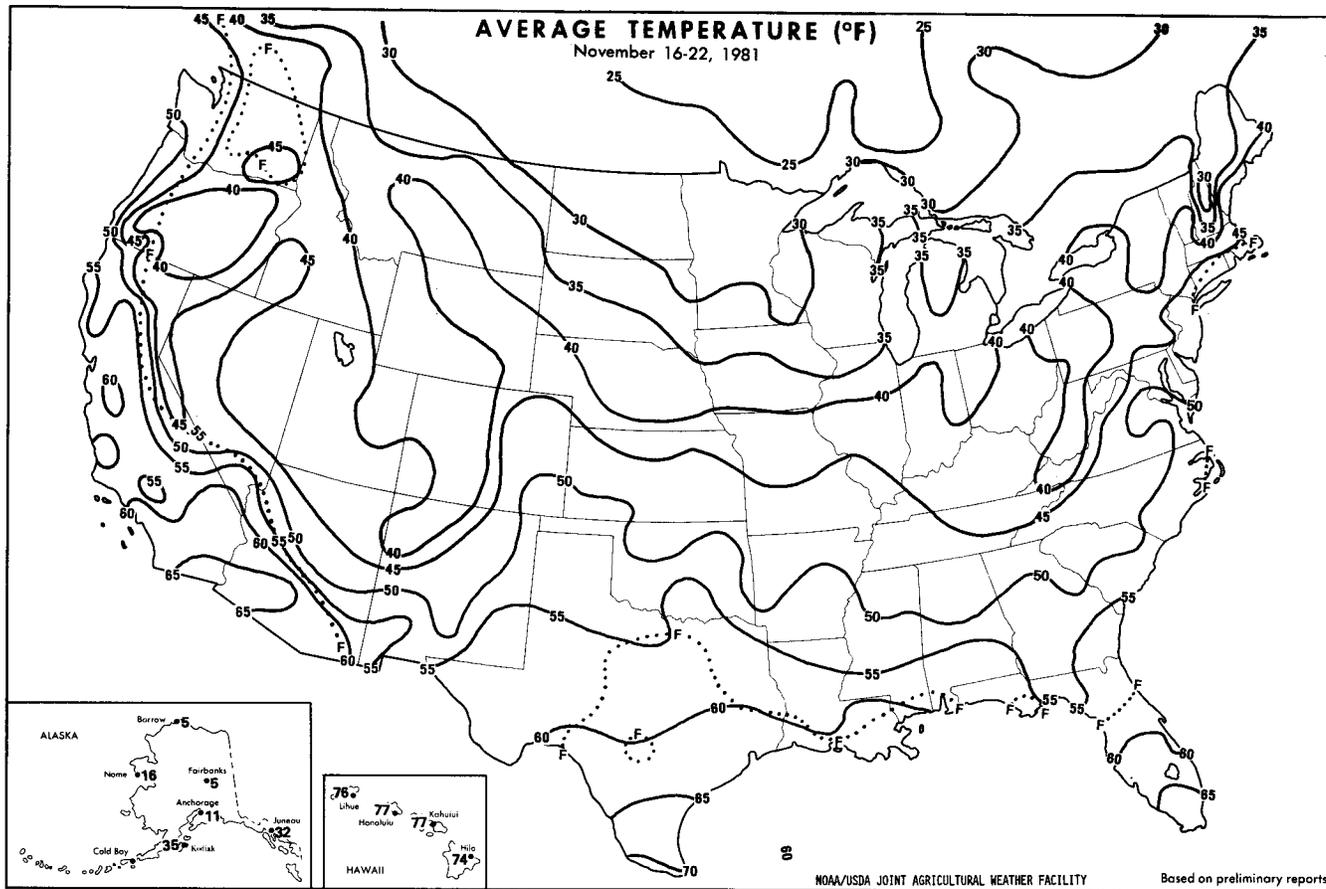
SATURDAY...The low pressure system moved into southern Canada but snow fell from the Great Lakes into the southern Appalachians, and western Pennsylvania and New York. The rest of the Northeast had light rain. The cold air plunged southward in the East and freezing temperatures reached into northern Florida. A cold front spread showers across the Pacific Northwest.

SUNDAY...Light snow lingered over the upper Ohio Valley, and much of the Northeast. Cold air continued to pour into the East and Southeast. Freezing temperatures reached further into northern Florida where Gainesville dropped to 30° and Orlando set a record with 35°. A cold front moved into the northern Plains and brought freezing rain and snow to Minnesota and the Dakotas while light rain fell ahead of the front in Iowa as warmer air flowed northward through the southern and central Plains.

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Weather Data for the Week Ending Nov. 22, 1981

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 APR. 31	PCT. NORMAL SINCE AUG. 31	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	64	35	78	25	49	-2								89	31	0	3	2	0
MOBILE	70	46	78	31	58	1	.2							83	91	0	1	0	0
MONTGOMERY	70	41	81	31	55	1	.1							83	91	0	1	0	0
AK ANCHORAGE	18	4	22	-1	11	-9	.3							86	86	0	2	2	0
BARROW	12	-2	23	-13	5	7	.3							91	86	0	2	2	0
FAIRBANKS	13	-4	21	-13	5	4	.3							94	69	0	7	2	0
JUNEAU	36	28	40	25	32	1	.1							94	73	0	7	1	0
KODIAK	39	31	41	26	35	1	.5							100	92	0	7	3	0
NOME	24	8	32	-2	16	2	.1							90	77	0	7	1	0
AZ FLAGSTAFF	60	28	69	19	44	9	.2							100	92	0	7	3	0
PHOENIX	80	50	86	46	65	7	0							121	77	0	4	1	0
TUCSON	79	45	83	40	62	5	0							114	62	0	5	0	0
WINSLOW	65	28	76	19	46	5	0							100	43	0	0	0	0
YUMA	83	53	90	47	68	6	0							134	37	0	0	0	0
AR FORT SMITH	63	36	75	25	50	1	0							108	108	0	5	0	0
LITTLE ROCK	64	41	76	28	52	2	0							99	92	0	3	0	0
CA BAKERSFIELD	70	48	78	44	59	4	.9							88	80	0	2	0	0
EUREKA	61	47	63	40	54	3	.2							100	77	0	0	0	0
FRESNO	64	46	72	40	55	3	3.6	2.2	2.6	11.6	147	30.6	96	92	74	0	0	5	2
LOS ANGELES	72	54	81	50	63	3	.3	0	.3	1.4	100	8.9	107	98	62	0	0	1	0
RED BLUFF	61	49	65	40	55	3	1.5	0	.4	25	7.0	74	85	43	0	0	0	0	0
SAN DIEGO	72	55	76	51	63	3	.9	.3	1.1	8.7	235	25.0	142	90	57	0	0	3	1
SAN FRANCISCO	61	52	66	44	57	2	.3	.3	T	.1	8	8.6	116	98	50	0	0	0	0
STOCKTON	65	48	71	39	57	5	1.1	.7	.5	6.8	243	19.0	126	87	61	0	0	4	0
CO DENVER	63	35	74	27	49	11	1.1	.7	.5	4.8	229	14.0	127	96	61	0	0	3	1
GRAND JUNCTION	51	28	63	21	40	2	T	.1	T	2.5	119	7.6	109	82	31	0	5	1	0
FUEBLO	68	30	77	18	49	10	T	.1	T	.7	35	7.1	59	63	19	0	5	0	0
CT BRIDGEPORT	52	43	58	35	48	3	1.3	.4	.6	10.7	123	28.5	83	83	55	0	0	4	2
HARTFORD	50	44	56	33	47	7	1.6	.6	.7	12.2	124	31.2	82	87	58	0	0	6	2
DC WASHINGTON	59	44	68	34	51	5	T	.7	T	6.4	80	29.0	83	73	43	0	0	1	0
FL APALACHICOLA	71	43	79	33	57	-3	.2	.5	.2	4.9	35	34.7	65	71	41	0	0	0	0
DAYTONA BEACH	72	43	80	33	58	-7	T	.4	T	11.4	78	36.7	76	92	34	0	0	2	0
FORT MYERS	77	48	80	41	62	-6	T	.3	T	7.9	55	51.5	98	92	33	0	0	1	0
JACKSONVILLE	72	38	79	30	55	-5	.1	.2	.1	7.7	55	32.6	63	94	37	0	2	1	0
KEY WEST	75	65	80	63	70	-5	T	.6	T	11.6	75	26.9	70	88	57	0	0	1	0
MIAMI	77	56	82	53	67	-5	0	.5	0	18.7	95	51.0	88	85	37	0	0	0	0
ORLANDO	74	43	81	35	59	-7	.1	.2	.1	14.1	111	44.8	91	93	30	0	0	1	0
TALLAHASSEE	70	34	79	25	52	-6	.4	.3	.3	9.3	80	45.9	81	98	38	0	2	2	0
TAMPA	72	47	77	39	59	-6	.3	.2	.2	7.3	70	35.4	75	99	43	0	0	2	0
WEST PALM BEACH	74	48	80	44	61	-9	0	.4	0	15.8	75	47.6	81	93	40	0	0	2	0
GA ATLANTA	64	37	76	26	51	1	.5	.3	.4	9.0	108	34.7	80	87	37	0	3	2	0
AUGUSTA	64	32	76	24	48	-4	.3	.2	.2	4.0	58	35.1	91	94	37	0	4	2	0
MACON	68	37	79	28	53	-1	.2	.4	.2	6.6	90	39.4	99	89	39	0	2	1	0
SAVANNAH	68	41	77	32	54	-2	.2	.2	.2	5.6	57	36.7	78	83	30	0	1	1	0
HI HILO	82	66	83	64	74	1	.2	3.1	.1	29.4	103	--	--	88	64	0	0	3	0
HONOLULU	84	70	85	66	77	1	.2	.6	.1	3.0	70	8.6	46	88	62	0	0	3	0
KAHULUI	85	68	87	64	77	2	.3	.3	.2	3.0	94	--	--	82	56	0	0	3	0
LIHUE	82	69	84	64	76	1	1.1	.3	.9	10.9	110	--	--	88	63	0	0	3	0
ID BOISE	53	40	63	31	47	8	.6	.3	.2	2.7	129	11.7	115	85	47	0	1	5	0
LEWISTON	52	39	56	34	45	6	.8	.5	.3	3.9	134	12.8	108	92	55	0	0	3	0
POCATELLO	49	32	62	19	41	6	.4	.2	.2	2.7	135	11.6	125	86	46	0	3	4	0
IL CAIRO	56	36	71	28	46	-1	.1	.9	.1	4.6	50	37.1	87	--	--	0	3	1	0
CHICAGO	43	29	56	13	36	-1	1.0	.5	.7	6.6	96	37.0	125	88	64	0	5	2	1
MOLINE	45	28	59	14	36	-1	.5	.1	.4	11.6	145	34.8	103	88	61	0	6	3	0
PEORIA	49	31	61	17	40	2	.4	.1	.3	4.1	54	37.4	114	90	58	0	3	2	0
ROCKFORD	43	26	60	11	34	-1	.3	.3	.2	8.7	97	33.0	95	63	0	4	3	0	0
SPRINGFIELD	51	31	62	21	41	1	.5	0	.3	5.3	65	45.3	139	90	55	0	3	2	0
IN EVANSVILLE	53	35	73	24	44	1	1.2	.4	.8	5.9	77	39.3	104	94	62	0	3	3	1
FORT WAYNE	44	31	54	19	38	-1	.6	0	.3	7.5	101	34.1	104	92	67	0	4	2	0
INDIANAPOLIS	49	32	62	23	40	1	.3	.5	.3	4.8	62	33.6	95	89	57	0	4	2	0
SOUTH BEND	46	34	59	19	40	2	1.6	1.0	.9	6.9	84	35.9	108	96	65	0	3	2	2
IA BURLINGTON	47	31	63	21	39	2	.8	.5	.6	10.4	130	43.4	133	86	56	0	3	2	1
DES MOINES	48	29	63	19	38	3	.6	.3	.5	6.5	100	29.9	100	84	57	0	4	2	1
DUBUQUE	46	28	60	16	37	3	.5	0	.3	9.9	104	--	--	96	68	0	4	3	0
KS STIOUX CITY	44	25	62	17	34	0	.1	.1	.1	4.7	90	19.0	77	91	62	0	6	3	0
CONCORDIA	57	32	70	23	44	5	T	.1	T	5.3	93	32.1	121	83	44	0	4	0	0
DODGE CITY	65	35	77	22	50	9	T	.1	T	6.7	168	24.3	120	77	31	0	3	0	0
GOODLAND	59	32	75	18	46	9	.1	.1	.1	1.6	55	21.3	131	73	33	0	4	1	0
TOPEKA	58	33	73	23	45	4	T	.3	T	9.6	133	39.3	119	85	46	0	4	0	0
WICHITA	57	34	69	26	46	3	T	.3	T	9.4	125	26.7	90	88	51	0	4	0	0
KY LEXINGTON	50	34	68	23	42	-1	.6	.2	.6	5.0	68	31.9	80	94	59	0	3	2	1
LOUISVILLE	52	35	71	21	44	1	.2	.6	.2	5.2	66	29.8	76	89	52	0	3	3	0
LA BATON ROUGE	72	44	85	30	58	1	T	.9	T	6.2	68	37.6	78	95	43	0	2	1	0

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

Weather Data for the Week Ending Nov. 22, 1981

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 Aug. 31	PCT. NORMAL SINCE Aug. 31	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE		PRECIPITATION		
																90 AND ABOVE	72 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE	
LAKE CHARLES	71	48	80	32	60	0	T	-1.0	T	7.5	71	47.2	97	97	53	0	1	0	0	
NEW ORLEANS	73	48	85	36	60	1	T	-1.0	T	7.8	73	49.1	97	94	50	0	0	0	0	
SHREVEPORT	71	39	81	27	55	0	0	-	0	9.6	110	39.6	100	95	43	0	2	0	0	
ME CARIBOU	39	30	48	28	35	5	1.5	.7	.6	10.5	112	42.7	132	95	74	0	6	4	2	
PORTLAND	45	38	48	30	41	4	1.6	.4	.5	13.7	134	42.0	117	91	70	0	1	5	1	
MD BALTIMORE	55	39	62	28	47	2	0	-	0	6.2	75	28.0	78	73	42	0	1	1	0	
MA BOSTON	49	40	54	34	45	0	3.2	2.1	1.7	10.8	114	29.4	80	93	69	0	0	5	2	
CHATHAM	51	42	55	34	46	--	2.6	--	--	11.8	--	38.0	--	93	69	0	0	5	2	
MI ALPENA	41	28	60	22	35	1	.3	-	.3	5.9	83	19.6	77	87	61	0	5	1	0	
DETROIT	46	32	59	25	39	0	.8	-	.2	10.4	155	30.9	106	88	60	0	5	5	0	
FLINT	43	31	58	27	37	0	.8	-	.3	11.8	176	32.8	119	96	67	0	5	2	1	
GRAND RAPIDS	44	32	61	26	38	1	1.8	1.1	1.2	14.1	170	43.3	145	85	62	0	4	2	2	
HOUGHTON LAKE	38	28	58	25	33	1	1.1	.5	.9	5.9	74	28.6	107	91	69	0	6	2	2	
LANSING	43	31	59	27	37	0	1.0	.5	.8	10.4	158	30.2	109	97	72	0	5	2	1	
MARQUETTE	35	26	51	4	30	2	1.4	.6	.8	8.4	87	29.9	90	96	73	0	5	4	1	
MUSKEGON	41	33	57	29	37	-1	.7	0	.5	9.6	117	29.3	103	89	63	0	3	3	0	
SAULT STE. MARIE	37	24	56	18	31	-1	T	-	.8	7.1	76	24.7	85	87	62	0	7	1	0	
MN DULUTH	34	22	52	8	28	2	T	-	.4	6.0	87	26.3	93	85	59	0	5	3	0	
INT'L FALLS	33	21	42	9	27	5	T	-	.3	8.0	129	21.0	85	90	67	0	5	0	0	
MINNEAPOLIS	38	22	59	6	30	0	1.1	.8	.8	5.3	95	26.1	105	93	64	0	6	3	1	
ROCHESTER	38	21	56	6	29	-1	.4	-	.1	4.6	92	32.0	120	95	67	0	7	1	0	
SAINT CLOUD	38	23	53	8	30	3	T	-	.2	5.7	104	23.9	93	88	64	0	7	2	0	
MS JACKSON	70	37	83	25	53	-1	0	-	0	8.9	110	40.3	93	93	36	0	3	0	0	
MERIDIAN	70	37	82	26	53	0	0	-	0	5.7	73	36.0	80	85	32	0	2	1	0	
MO COLUMBIA	55	31	77	17	43	1	T	-	.2	7.6	81	46.5	130	90	49	0	3	1	0	
KANSAS CITY	53	30	68	18	42	1	T	-	.3	8.4	94	40.4	114	78	46	0	4	1	0	
SAINT LOUIS	55	35	70	27	45	2	.1	-	.5	7.6	100	42.3	128	93	52	0	4	1	0	
SPRINGFIELD	60	33	76	20	46	2	T	-	.5	9.7	101	40.5	109	84	43	0	3	1	0	
MT BILLINGS	50	32	58	26	41	7	.1	-	.1	1.6	52	15.3	113	88	49	0	4	3	0	
GLASGOW	41	26	55	21	34	7	.4	-	.4	3	1.8	113	8.5	79	83	61	0	6	2	
GREAT FALLS	48	32	58	19	40	7	.1	-	.2	1.8	75	13.9	98	80	48	0	3	3	0	
HAVRE	45	29	56	22	37	9	T	0	T	2.0	91	9.5	85	91	57	0	4	2	0	
HELENA	49	31	58	20	40	10	T	.1	T	1.9	100	13.1	127	81	42	0	4	1	0	
KALISPELL	43	32	49	26	37	8	.8	-	.5	7	1.8	53	16.7	111	98	74	0	3	1	
MILES CITY	45	28	56	20	36	6	.5	-	.3	2.6	118	10.2	76	91	56	0	4	4	0	
MISSOULA	43	30	49	22	37	6	.5	-	.3	3	2.6	100	15.2	128	98	70	0	5	5	
NE GRAND ISLAND	51	27	69	17	39	3	.1	-	0	3.6	95	21.1	93	89	50	0	4	1	0	
LINCOLN	53	27	70	17	40	3	.1	-	.1	5.7	110	22.1	86	93	58	0	4	1	0	
NORFOLK	47	24	65	11	35	1	T	-	.1	2.7	64	19.5	84	90	55	0	6	1	0	
NORTH PLATTE	54	22	72	12	38	4	.1	-	0	1.5	43	22.3	115	94	44	0	7	2	0	
OMAHA	46	27	63	13	36	1	.1	-	.1	4.3	73	26.5	93	86	64	0	4	1	0	
VALENTINE	51	22	72	13	37	4	.1	-	0	3.0	111	17.4	99	88	47	0	7	3	0	
NV ELY	55	24	63	17	40	7	T	-	.1	4.0	286	9.9	143	72	24	0	7	0	0	
LAS VEGAS	68	45	79	38	57	5	0	-	.1	0	4	2.8	74	37	16	0	0	0	0	
RENO	55	38	66	28	47	7	.5	-	.3	2.5	227	5.3	88	81	35	0	2	2	0	
WINNEMUCCA	54	36	66	24	45	9	.3	-	.1	2	1.9	106	6.0	82	80	37	0	2	2	
NH CONCORD	45	38	50	30	41	5	2.9	1.9	.8	14.6	168	41.8	132	95	71	0	1	5	3	
NJ ATLANTIC CITY	52	37	63	30	45	0	.7	-	.3	6	6.0	62	--	--	95	63	0	2	4	1
TRENTON	51	43	57	38	47	2	.7	-	.1	5	8.3	99	35.9	99	72	47	0	0	0	0
NM ALBUQUERQUE	64	29	73	20	46	3	0	-	.1	0	1.9	106	7.4	100	53	15	0	4	0	0
ROSWELL	74	35	82	25	55	8	0	-	.1	0	3.8	123	24.3	231	52	15	0	2	0	0
NY ALBANY	45	38	53	29	42	3	.8	-	.1	6	8.5	105	26.8	90	90	62	0	1	6	1
BINGHAMTON	42	36	53	27	39	2	.9	-	.2	5	9.8	117	27.8	83	91	71	0	2	6	1
BUFFALO	42	37	49	30	39	1	1.5	-	.5	9.6	105	33.3	103	98	79	0	2	5	1	
NEW YORK	52	45	58	37	48	2	.6	-	.3	3	8.0	88	29.9	80	79	52	0	0	2	0
ROCHESTER	43	38	50	30	41	1	1.6	-	.9	1.0	10.9	147	32.5	114	96	80	0	1	6	1
SYRACUSE	43	37	48	25	40	0	1.7	-	1.0	.7	14.9	180	31.9	99	100	83	0	2	7	1
NC ASHEVILLE	57	34	74	27	46	1	.2	-	.5	1	3.9	42	28.9	70	87	42	0	2	3	0
CHARLOTTE	62	36	75	25	49	-1	T	-	.6	T	7.6	94	30.9	80	78	31	0	2	0	0
GREENSBORO	60	35	71	23	47	0	T	-	.6	T	10.1	120	35.3	94	84	30	0	2	0	0
HATTERAS	59	42	71	32	51	-5	.4	-	.6	.4	6.1	43	43.8	87	86	51	0	1	2	0
RALEIGH	62	37	74	26	50	1	.2	-	.5	.1	7.9	90	31.1	80	85	31	0	2	2	0
WILMINGTON	64	38	73	28	51	-4	.1	-	.6	.1	2.6	23	38.0	77	88	33	0	2	2	0
ND BISMARCK	38	21	60	14	29	3	.7	-	.6	.4	3.1	124	13.8	89	88	64	0	7	2	0
FARGO	32	20	49	11	26	0	.1	-	.1	1	4.1	114	16.7	87	91	73	0	7	1	0
WILLISTON	36	19	53	12	28	2	.4	-	.3	.3	1.6	70	10.8	79	98	75	0	7	4	0
OH AKRON-CANTON	48	32	58	29	40	1	1.1	-	.5	.9	6.7	96	37.7	116	87	55	0	3	4	1
CINCINNATI	50	31	64	21	40	-2	.5	-	.3	.4	5.3	74	31.2	88	86	53	0	5	2	0
CLEVELAND	48	31	56	28	39	-1	1.5	-	.9	1.0	11.0	145	35.7	109	87	57	0	4	4	1
COLUMBUS	47	28	58	17	38	-2	.9	-	.3	.9	4.8	76	34.5	102	87	54	0	5	3	1
DAYTON	48	32	61	21	40	0	1.9	-	1.3	1.9	10.0	159	39.5	125	92	66	0	4	3	1
TOLEDO	45	30	55	25	37	-1	.6	-	0	.4	11.7	177	35.5	122	95	73	0	5	2	0
YOUNGSTOWN	45	32	54	28	39	0	1.1	-	.4	.8	8.0	103	32.3	94	97	69	0	3	4	1
OK OKLAHOMA CITY	64	37	75	25	50	3	T	-	.3	T	10.7	147	38.0	126	89	41	0	4	0	0

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

Weather Data for the Week Ending Nov. 22, 1981

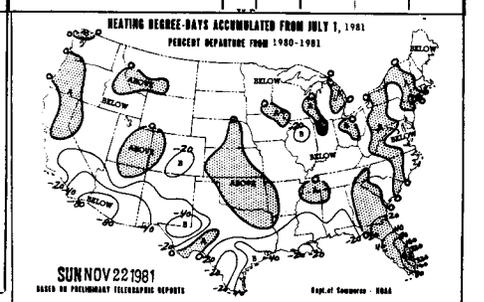
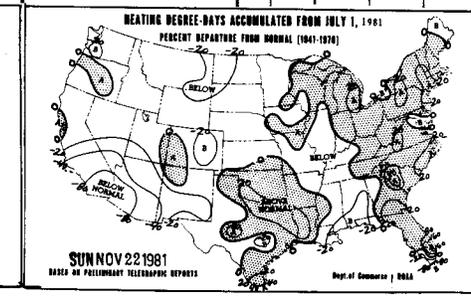
STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE AUG. 31	PCT. NORMAL SINCE AUG. 31	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
OR TULSA	63	39	76	29	51	3	T	-.4	T	11.2	124	36.0	103	89	48	0	2	0	0
OR ASTORIA	55	46	56	42	51	5	3.4	1.0	T	1.0	127	54.3	103	89	65	0	0	6	3
BURNS	47	29	57	20	38	4	.9	.5	.5	3.6	150	10.9	112	86	70	0	0	0	0
MEDFORD	52	42	57	33	47	4	2.3	1.5	1.3	6.6	132	12.9	78	97	70	0	0	3	3
PENDLETON	54	39	60	36	47	7	1.0	.6	.5	3.6	124	12.6	117	87	46	0	0	5	1
PORTLAND	54	46	57	43	50	6	1.6	.2	.5	9.9	105	25.4	84	96	73	0	0	4	2
SALEM	52	41	54	37	47	2	3.7	2.2	1.8	14.4	145	31.1	95	98	78	0	0	6	1
PA ALLENTOWN	50	40	55	35	45	4	.6	-.3	.5	7.2	79	31.6	84	81	56	0	0	7	3
ERIE	45	38	55	29	42	3	1.6	-.7	.9	11.4	119	39.2	114	81	62	0	2	5	1
HARRISBURG	51	39	56	36	45	0	.3	-.5	.3	7.4	95	32.4	99	71	45	0	0	1	0
PHILADELPHIA	52	42	57	35	47	4	.4	-.5	.2	6.5	79	32.8	92	83	54	0	0	0	0
PITTSBURGH	45	31	54	26	38	-2	.6	-.1	.3	7.3	101	34.0	104	89	58	0	0	3	0
SCRANTON	46	40	53	33	43	4	1.0	.3	.4	8.2	106	33.5	106	87	68	0	5	0	0
RI PROVIDENCE	50	41	55	32	46	3	2.5	1.4	1.7	9.3	92	30.1	80	91	64	0	0	6	0
SC CHARLESTON	66	38	75	26	52	-3	.1	-.4	.1	3.9	39	44.4	92	71	24	0	1	5	1
COLUMBIA	66	35	79	24	51	-2	.1	-.4	.1	2.5	28	30.2	71	90	32	0	2	1	0
GREENVILLE	61	33	74	24	47	-3	.2	-.6	.1	6.8	72	27.1	64	83	35	0	2	2	0
SD ABERDEEN	38	23	62	15	31	2	-.1	-.1	-.1	-.1	-.1	-.1	-.1	82	60	0	3	2	0
HURON	42	22	63	12	32	2	.3	-.1	.1	3.0	79	14.4	76	89	58	0	6	0	0
RAPID CITY	48	28	63	19	38	4	.1	0	.1	2.3	92	14.0	80	87	55	0	7	2	0
SIoux FALLS	42	20	63	9	31	0	.7	-.5	.5	3.6	72	17.2	72	86	57	0	5	1	0
TN CHATTANOOGA	58	35	70	25	47	-1	.3	-.7	.2	7.5	78	38.0	85	87	45	0	7	3	0
KNOXVILLE	56	34	74	22	45	-3	1.1	-.2	.7	11.7	148	38.2	94	87	50	0	2	3	0
MEMPHIS	62	37	74	28	50	0	.2	-.8	.2	9.0	103	36.1	83	79	39	0	2	1	1
NASHVILLE	55	34	72	22	45	-2	.6	-.3	.4	4.7	59	36.1	88	90	46	0	2	0	0
TX ABILENE	74	43	87	33	59	6	0	-.2	0	12.5	208	27.0	119	71	24	0	4	2	0
AMARILLO	69	33	80	23	51	6	T	-.1	T	6.4	152	20.9	111	70	20	0	4	0	0
AUSTIN	73	50	81	39	62	4	T	-.4	T	10.5	127	45.6	153	88	45	0	0	0	0
BEAUMONT	72	52	80	36	62	3	T	-.1	T	10.9	88	46.3	94	95	55	0	0	0	0
BROWNSVILLE	83	56	89	44	70	2	0	-.3	0	7.9	81	29.5	124	94	46	0	0	0	0
CORPUS CHRISTI	77	55	84	44	66	2	0	-.4	0	11.7	129	43.0	160	95	51	0	0	0	0
DEL RIO	77	47	85	37	62	4	0	-.1	0	7.0	119	27.3	165	79	37	0	0	0	0
EL PASO	75	34	82	26	55	4	0	-.1	0	1.0	43	12.3	166	49	14	0	3	0	0
FORT WORTH	70	45	80	35	57	3	0	-.5	0	17.7	233	44.2	146	87	40	0	0	0	0
GALVESTON	69	58	78	47	63	1	0	-.8	0	6.5	60	33.0	88	88	69	0	0	0	0
HOUSTON	74	51	83	33	63	3	T	-.1	T	17.5	150	50.3	116	96	48	0	0	0	0
LUBBOCK	71	37	80	29	54	7	0	-.1	0	7.2	147	28.2	125	68	19	0	1	0	0
MIDLAND	76	38	84	30	57	5	0	-.1	0	6.2	172	17.4	136	67	16	0	1	0	0
SAN ANGELO	76	37	85	26	56	2	0	-.2	0	11.3	202	30.0	179	89	21	0	2	0	0
SAN ANTONIO	76	45	83	31	61	2	T	-.4	T	10.7	132	36.7	140	96	40	0	1	0	0
VICTORIA	74	51	82	38	63	1	T	-.5	T	11.4	113	43.7	137	97	49	0	0	0	0
WACO	71	44	81	35	57	1	T	-.5	T	12.6	166	32.8	114	95	45	0	0	0	0
WICHITA FALLS	69	37	87	27	53	2	0	-.3	0	9.4	136	30.5	116	90	31	0	0	0	0
UT BLANDING	54	27	63	22	41	4	0	-.1	0	2.9	100	11.3	110	70	33	0	6	0	0
SALT LAKE CITY	53	35	68	29	44	7	.3	0	.2	5.0	185	14.3	106	86	40	0	3	3	0
VT BURLINGTON	42	36	48	32	39	3	1.6	1.0	.5	13.6	168	39.7	136	86	70	0	1	6	0
VA LYNCHBURG	56	37	66	27	46	1	.3	-.4	.3	6.8	85	31.4	92	72	35	0	2	1	0
NORFOLK	59	42	73	30	50	0	.8	-.1	.8	8.1	82	35.2	86	82	43	0	1	1	1
RICHMOND	61	36	73	24	49	1	-.1	-.7	-.1	5.5	60	30.9	80	84	37	0	1	1	0
ROANOKE	54	35	67	26	45	-1	T	-.5	T	8.4	97	26.9	76	71	41	0	3	1	0
WA COLVILLE	44	37	50	31	41	7	1.1	-.6	.5	5.8	153	22.3	158	97	91	0	1	5	0
OMAK	48	34	55	31	41	1	.6	-.1	.3	5.0	-.1	11.5	-.1	-.1	0	1	4	0	0
QUILLAYUTE	51	43	55	39	47	4	4.4	1.1	1.4	31.5	118	86.6	100	97	75	0	0	7	4
SEATTLE-TACOMA	52	44	54	41	48	4	1.6	-.1	.6	13.6	132	29.7	96	87	61	0	0	7	2
SPOKANE	48	36	50	33	42	8	.6	0	.5	3.0	79	12.5	83	91	64	0	0	3	1
WALLA-WALLA	54	42	59	39	48	6	1.6	1.1	.8	5.3	143	19.3	136	86	54	0	0	5	2
YAKIMA	50	34	56	30	42	5	.5	-.2	.2	3.2	188	6.5	103	96	70	0	4	4	0
WV BECKLEY	47	30	67	17	39	-2	.3	-.4	.2	9.3	115	33.6	87	68	38	0	4	3	0
CHARLESTON	53	31	73	20	42	-2	.2	-.5	.1	5.8	77	33.0	89	89	49	0	5	4	0
HUNTINGTON	53	32	73	22	43	-1	.4	-.3	.4	5.1	71	34.8	98	77	47	0	3	2	0
PARKERSBURG	52	34	65	23	43	0	.3	-.3	.3	5.8	84	29.4	84	94	58	0	3	4	0
WI GREEN BAY	38	27	51	12	33	0	.3	-.2	.2	7.1	108	21.8	85	97	69	0	6	3	0
LA CROSSE	40	26	58	14	33	0	-.1	-.2	.1	4.5	66	33.1	119	99	70	0	4	2	0
MADISON	41	22	59	8	32	-1	.4	-.1	.2	7.8	111	30.1	106	96	68	0	7	4	0
MILWAUKEE	40	29	53	16	35	0	.6	-.1	.4	9.3	143	31.3	118	89	65	0	4	3	0
WY CASPER	50	32	66	27	41	9	.7	-.5	.7	1.7	77	10.6	104	79	43	0	5	1	1
CHEYENNE	55	31	69	18	43	9	T	-.1	T	1.1	46	16.0	112	68	27	0	3	1	0
LANDER	51	28	63	22	39	10	T	-.2	T	1.2	39	10.1	77	74	31	0	6	0	0
SHERIDAN	54	28	65	21	41	9	.1	-.1	T	1.7	55	13.4	88	78	36	0	6	2	0
PR SAN JUAN	89	75	91	72	82	3	.3	-.1	.3	17.0	106	56.6	107	93	68	1	0	2	0

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

HEATING DEGREE DAYS (BASE 65°) FOR WEEK ENDING NOV. 22, 1981.

BASED ON 1941-70 NORMALS. + ACCUMULATION FROM JULY 1, 1981.

Table with columns for STATES AND STATIONS, WEEKLY DEPARTURE*, SEASONAL ACCUMULATION +, and DEPARTURE FROM 1980-81. Rows list various cities across the United States with their corresponding heating degree day data.



National Agricultural Summary

NOVEMBER 16-22, 1981

Fieldwork progressed rapidly until midweek when the first major snowstorm of the season enveloped most of the North Central region and brought outside activities to a standstill. However, most crops had been harvested in the areas hardest hit by the storm. Soil moisture supplies were short to mostly adequate. Excess moisture was reported in some northern areas and farmers were waiting for a hard freeze before moving machinery into fields. Corn harvest in the 17 major States advanced 8 percentage points during the week and reached 92% complete, only 1 point behind normal. Combining was finished in South Dakota. In the 18 major producing States soybean harvest advanced to 93% complete, equal to last year but 2 points ahead of average. Combining was finished in Iowa and Nebraska and nearly complete in Illinois, Indiana, Minnesota, and Ohio. Progress in Kansas continued to lag

the average by 15 points. Sorghum harvest advanced rapidly, reaching 88% finished, only 7 points behind normal. Progress was 20 points behind average in Kansas and 15 points behind in Oklahoma. Harvest was finished in South Dakota and virtually complete in Texas. In the 14 major producing States, 62% of the cotton acreage had been harvested, 13 points behind last year. Progress was behind normal in Arkansas, Missouri, Oklahoma, and Texas. The Texas harvest gained momentum as a hard freeze killed the remaining green plants on the High Plains. Winter wheat seeding in the 15 major States was 95% finished, 1 point behind last year. Plants had emerged on 91% of the acreage. Stands were in mostly good condition and cattle were grazing pastures where conditions permitted. Cool temperatures slowed pasture and range growth; cattle grazed on fall pastures and crop stubble.

CROP PROGRESS FOR WEEK ENDING NOV 22, 1981
NA - NOT AVAILABLE

WINTER WHEAT % PLANTED			WINTER WHEAT % EMERGED			CORN % HARVESTED			SOYBEAN % HARVESTED						
	1981	1980 AVG.		1981	1980 AVG.		1981	1980 AVG.		1981	1980 AVG.				
CALIF	43	32	NA	CALIF	30	7	NA	COLO	90	98	98	ALA	92	87	75
COLO	100	100	100	COLO	97	98	99	GA	99	99	97	ARK	88	82	87
IDAHO	100	100	100	IDAHO	100	100	100	ILL	94	100	96	GA	76	67	66
ILL	94	100	100	ILL	90	100	NA	IND	85	99	90	ILL	99	100	99
IND	100	100	100	IND	90	90	90	IOWA	96	100	95	IND	98	100	99
KANS	97	99	99	KANS	98	95	NA	KANS	95	100	96	IOWA	100	100	100
MO	90	97	89	MO	85	94	85	KY	96	99	93	KANS	80	98	95
MONT	100	100	100	MONT	100	100	100	MICH	90	90	90	LA	92	99	96
NEBR	100	100	100	NEBR	100	100	100	MINN	96	99	93	OHIO	88	96	96
OHIO	100	100	100	OHIO	90	99	96	MO	90	100	90	MICH	95	95	95
OKLA	95	95	100	OKLA	85	90	90	NEBR	85	100	85	MINN	99	99	99
OREG	99	99	NA	OREG	94	92	NA	N C	98	97	97	MISS	91	87	88
S DAK	100	100	100	S DAK	100	100	100	OHIO	85	100	92	MO	91	99	90
TEX	93	92	95	TEX	86	86	NA	PA	89	95	85	NEBR	100	100	99
WASH	99	100	100	WASH	93	98	NA	S DAK	100	95	100	N C	71	59	55
15 STATES	95	96	NA	15 STATES	91	92	NA	VA	95	93	89	OHIO	97	100	100
EXCL. STATES WITH NA	97	98	98	EXCL. STATES WITH NA	92	95	94	WIS	82	99	91	S C	71	40	53
THESE 15 STATES PRODUCED 88% OF THE 1980 WINTER WHEAT CROP.				THESE 15 STATES PRODUCED 88% OF THE 1980 WINTER WHEAT CROP.				17 STATES	92	99	93	TENN	90	100	78
								THESE 17 STATES PRODUCED 93% OF THE 1980 CORN CROP.				18 STATES	93	93	91
												THESE 18 STATES PRODUCED 95% OF THE 1980 SOYBEAN CROP.			

COTTON % HARVESTED			SORGHUM % HARVESTED				
	1981	1980 AVG.		1981	1980 AVG.		
ALA	95	96	75	COLO	85	99	95
ARIZ	75	65	65	KANS	75	97	95
ARK	91	98	92	MO	86	100	91
CALIF	90	85	NA	NEBR	91	100	95
GA	88	96	82	OKLA	70	95	85
LA	97	99	95	S DAK	100	96	100
MISS	98	98	92	TEX	99	99	98
MO	87	100	92	7 STATES	88	98	95
N MEX	70	60	65	THESE 7 STATES PRODUCED 92% OF THE 1980 SORGHUM CROP.			
N C	87	95	80				
OKLA	15	60	35				
S C	95	96	90				
TENN	86	100	78				
TEX	42	64	55				
14 STATES	62	75	NA				
EXCL. STATES WITH NA	59	74	65				
THESE 14 STATES PRODUCED 99% OF THE 1980 COTTON CROP.							

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 Offices in cooperation with the National Weather Service.

ALABAMA: Temperatures wide-ranging, above normal 20th, subnormal 21st, 22nd; average subnormal. Little precipitation, mostly east; highest total 0.81 in. Headland.

Fieldwork: 5.4 days. Soil moisture short. Activities: Row crop harvest, small grain seeding, pecan harvest, livestock and poultry care. Soybeans 92% harvested, 87% 1980, 81% average. Cotton 95% harvested, 96% 1980, 75% average. Sorghum 95% harvested. Wheat 82% seeded, 90% 1980. Condition: Wheat mostly fair; pastures very poor southwest, fair northern valley.

ARIZONA: Mostly sunny, mild weather, no precipitation. Average temperatures varied 2 to 10° above normal.

Cotton harvest continued full swing. Approximately 75% acreage in some stage harvest. This compares 65% last year, average. Yield prospects remained excellent this fall. Many areas reporting cotton harvest completed, land being prepared following crops. Late season sorghum harvest continued steady rate. Sorghum, corn harvest for silage complete. Alfalfa haying better than seasonal progress due rather warm conditions. Cold spell late in week expected to slow growth. Sugarbeets continued good top, tap root development. Land preparation, planting small grains steady progress, earliest plantings emerging, some already making good stands. Lettuce harvest central, western areas steadily increasing in volume. Honeydew harvest rapidly winding down, virtually complete. Harvest broccoli, green onions, greens, other late fall miscellaneous vegetables making good progress. Land preparations, planting lettuce, other winter, early spring crops active. Other crops late fall harvest, mostly cauliflower, carrots growing well. Harvest lemons, Navel and sweet oranges, grapefruit, early variety tangerines continued, making very good progress. Trees rapidly putting on new growth, appeared mostly good condition. Ranges continued decline, even higher elevations. Soil moisture, water supplies alarmingly short, mostly mid to lower desert ranges. Higher elevation ranges generally good condition, mid to lower deserts poor to fair. Cattle, calves, sheep, lambs remained generally fair to good condition, except Santa Cruz County where cattle, sheep reported excellent condition. Sheep being moved lower Desert winter pastures.

ARKANSAS: Very dry week. Temperatures at or slightly above normal. Highest temperature 79°, lowest 16°. Departures from normal -1 to +4°. Most rainfall trace, least zero.

Six days fieldwork. Soil moisture becoming short. Soybeans harvested 88%, 82% 1980, 87% average. Cotton harvested 91%, 98% 1980, 92% average. Wheat planted 85%, 89% average. Wheat good condition. Pastures getting short. Livestock good condition.

CALIFORNIA: Another major storm system crossed the northern half of the State early in the week. Again, the air was warm and the snow level remained quite high. Precipitation totals to 5.00 in. were noted in northern coast ranges, and the Sacramento Valley was doused with as much as 2.66 in. Some precipitation was observed in the San Joaquin Valley, but amounts were about 0.50 in. or less. Mean temperatures were a few degrees warmer than normal, but Blue Canyon in the Sierra Nevada was 2° below normal.

Field activities at standstill due to rain. Rice harvest complete. Cotton harvest winding down San Joaquin, and active Imperial Valley, 90% harvested, 85% last year. Winter wheat 43% plant-

ed, 32 a year earlier, 30% emerged. Dry bean harvest ending, some losses by rain. Milo and field corn harvest some areas. Picking Desert lemons and grapefruit continued. Navel orange, date harvest continued. Field activities in orchards and vineyards in northern half limited by rain. Emperor table grape harvest continued reduced rate due to rain. Kiwi harvest completed. Artichoke light supply. Broccoli harvest heavy Central Coast, continues other areas. Cantaloup harvest slow Desert. Carrot harvest fairly light Kern, Salinas areas. Cauliflower harvest fairly heavy. Celery heavy supply Central Coast. Sweet corn harvest continues Coachella Valley, South Coast. Lettuce slowing San Joaquin Valley, Central Coast; increasing Palo Verde Valley. Potato harvest continues Riverside, Stockton movement from storage active, Tullake-Butte Valley. Tomato harvest decreasing San Joaquin Valley, South Coast. Rains north continued good range development. Southern ranges need more moisture. Stock water supplies best in years. Calving, lambing active.

COLORADO: Warm and dry during first four days of week, with record high temperatures at several stations. Cooler remainder of week with light precipitation in many areas. A few inches of snow fell at several mountain stations west of the Continental Divide, and most areas of the State experienced moderate to strong winds.

FLORIDA: Mostly fair weather with mild days and cold nights. Temperatures were 4 to 8° below normal. On morning of 22nd, freezing temperatures extended southward into central interior with light frost as far south as Lake Okeechobee. Isolated showers brought rainfall amounts of 0.25 in. or less.

Soil moisture mostly adequate north, west, mostly short central, south, recent rains helpful, more needed. Peanut, hay harvest complete. Soybean, cotton harvest good progress; sugarcane harvest gaining. Seeding small grains, winter forage continues. Cold nights, frosts curtailed or slowed growth of permanent pastures most areas except lower southern Peninsula. Previous week's rains, light midweek showers promoted winter pasture growth, central, northern areas. Cattle, calf condition varies, but mostly fair to good. Citrus grove condition good. Cold night temperatures aiding fruit color on all early maturing types of citrus, harvest active for fresh Thanksgiving trade. Clear skies, cooler temperatures prevailed most of week in vegetable areas. Rainfall limited to very few light, widely scattered showers. Daytime highs mostly 70's, 80's, nighttime lows 40's, 50's. Winds mostly light to moderate. Total vegetable shipments up 8% from previous week. Harvest gained snap beans, cabbage, carrots, celery, chinese cabbage, eggplant, escarole, lettuce, parsley, peppers, radishes, southern peas; squash and tomatoes. Supplies about steady okra. Volume declined sweet corn and cucumbers. Strawberry plant growth continues very good Hillsborough-Manatee area. Some bloom showing in early plantings. Limited supply fall watermelons available. Quality, size good.

GEORGIA: Spotty light showers 16th and 17th, average amounts near 0.25 in. with local amounts ranging from none at all to nearly 0.75 in. Dry and quite cool 21st and 23rd. Hard freeze nearly Statewide 21st. Only the southeastern counties spared.

Soil moisture short to adequate. Six days suitable for fieldwork. Harvest and small grain planting main activities. Soybeans poor to mostly fair, 76% harvested, last year 67%, average 66%. Cotton 99% open, last year 100%, 88% harvested, last year 96%, average 82%. Corn virtually complete. Pecans fair to good, 53% harvested, last year 48%, average 51%. Apple harvest complete, last year 99%. Small grains: Wheat 56% planted, last year 64%, average 68%; rye 84% seeded, last year 84%, average 79%; other small grains, 80% seeded, last year 81%, average 76%. Pastures poor to fair, cattle and hogs fair to good.

IDAHO: Precipitation fell over most of the State ranging from 0.17 to 2.44 in. Temperatures were 3 to 8° above normal. High of 66° at Kuna, low of 6° at Stanley.

Farmers spent much of the week waiting for the weather to improve so that they could continue with fall fieldwork. Sugarbeet harvest was winding up, but there was still corn to be combined. Some final fall plowing continued. Cattle and sheep were off the range and grazing stubble fields. Feed supplies remained adequate.

ILLINOIS: Temperatures normal to 2° above normal. Precipitation 0.25 to 1.00.

Corn 94% harvested, 100% 1980, 96% average. Winter wheat 94% seeded, 100% 1980, and 100% average; 90% emerged, 100% 1980; condition 10% excellent, 74% good, 14% fair, and 2% poor. Corn and soybean acreage 55% tilled, 65% 1980, and 59% average. Pastures 7% excellent, 61% good, 26% fair, 6% poor. Soil moisture 5% short, 70% adequate, 25% surplus. Fieldwork: 5.0 days suitable.

INDIANA: Temperatures averaged near normal but winter storm over weekend brought 1 to 2 in. of snow to the north and some slippery roads in central. Lowest temperatures in high teens. Highest in low 70's. Precipitation 0.50 to 1.10 in.

Fieldwork averaged 5 days. Topsoil and subsoil moisture adequate. Corn 85% harvested, 1980 99%, average 90%. Soybean 98% combined, 1980 100%, average 99%. Moisture content: corn 25%, soybeans 14%. Wheat 100% seeded, 1980 100%, average 100%. Wheat 90% emerged, 1980 90%, average 90%. Spring cropland 40% plowed, 1980 70%, average 40%. Tobacco 30% stripped, 1980 35%.

IOWA: The 3-week long unseasonably warm spell ended at midweek with temperature drops of 20 and 30°, and with 1 to 4 in. snowfall over most of the State. Most of the snow had melted by the end of the week.

Topsoil moisture: 7% short, 76% adequate, 17% surplus. Subsoil moisture: 20% short, 73% adequate, 7% surplus. Corn acreage harvested: 1981 96%, 1980 100%, normal 95%. Fall plowing completed: 43%. Fertilizer application complete: 40%. Days suitable for fieldwork: 4.8. Livestock reported in mostly good-excellent condition.

KANSAS: First measurable snows of season, 1.00 in. locally northwest on 19th. Trace snows remainder of State through 20th. Weekly temperatures averaged 45 to 50°, 4° above normal southeast, 6 to 10° above normal elsewhere.

Corn 95% harvested, 100% last year, 96% average. Soybeans 80% harvested, 98% last year, 95% average. Sorghum 75% harvested, 97% last year, 95% average. Wheat 97% planted, 99% last year and average; 98% emerged, 5% pastured. Pasture and range continue good to excellent. Moisture supply adequate. Feed and hay supplies adequate.

Cattle grazing crop residue and wheat pasture where conditions allow. Days suitable for fieldwork averaged 5.0.

KENTUCKY: Average temperatures throughout State were near or slightly below normal with mean daily temperatures mostly in the middle 40's. Precipitation was also slightly below normal with most recording stations receiving 0.33 to 0.50 in. of rainfall. Normal precipitation about 0.50 to 0.75 in.

Corn harvest in final stages, 96% complete, 99% last year, 93% average. Soybean harvest 92% complete, last year 98%, average 96%. Most wheat seeded, germinated and up to satisfactory stand. Burley market opened 23rd.

LOUISIANA: Rainfall averaged 0.10 to 0.20 in. south, none north. Temperatures averaged from normal to 2° above. Low 25°, high 85°.

Soil moisture short to adequate. Days suitable: 6.3. Cotton harvested 97%, 99% 1980, 95% average. Soybeans harvested 88%, 96% 1980 and average. Condition fair. Sugarcane harvested 63%, 52% 1980, 56% average; condition good. Sweetpotato harvest virtually complete. Vegetables rated fair to good. Pecans rated fair; harvested 42%, 50% 1980, 63% average. Wheat seeded 67%, 90% 1980, 91% average; condition fair to good. Pasture rated fair. Livestock rated fair to good. Supplemental feeding increasing.

MARYLAND AND DELAWARE: Fall harvest winding down. Small grain seedings virtually complete. Only a few cornfields standing. Soybean harvest a week ahead of last year. Delaware: Soybeans harvested 85%, last year 75%. Small grains generally good; more top growth beneficial. Topsoil moisture adequate. Subsoil short.

Maryland: Soybean harvest 85%, last year 75%. Tobacco stripped nearing 20%. Small grains mostly good condition. Topsoil moisture adequate, subsoil short. Weather continued warm and dry. Temperatures averaged 6° above normal. Highs in upper 50's to low 60's, lows in 40's. Precipitation light, average 0.17 in.

MICHIGAN: Temperatures averaged within 1° of normal except for the western portion of the Upper Peninsula, where the temperatures averaged 3° above normal. Precipitation amounts came mostly in the latter part of the week when a winter storm system moved across the State, dumping more than a foot of snow in north central lower Michigan and left 9 in. of snow at Marquette. Monthly precipitation totals are still below normal.

The week started warm and sunny with producers in high speed pursuit of grain and soybean harvest. Farmers were optimistic about getting their crops out of the field before winter weather set in. However, rain and snow on 19th and 20th halted fieldwork. Statewide about 4 days were suitable for fieldwork. Corn harvest was in full swing the first four days of the week. Corn picking advanced to over 90% complete, about equal to last year and average. Soybean harvest being wound up with 95% of the crop in, on schedule with last year and normal.

MINNESOTA: Around 2 to 4 in. of snow in southern third of State with about a foot in immediate Twin Cities area.

Harvesting nearly complete by middle of week, only east central has sizable amount left. Farmers in south managed to finish on 18th before snow started. Topsoil moisture 8% short, 79% adequate, and 13% surplus. Harvested: Field corn 96%, 1980 99%, normal 93%; sunflowers 95%, 1980 99%, normal 95%.

MISSISSIPPI: Cold front on 19th brought light rain to some areas. Greatest 24-hour total rain-

fall 0.91 in. Temperatures 2° above normal. Extremes: 15 and 85°.

Soil moisture short. Days suitable for fieldwork: 5.7. Cotton 98% harvested, 98% last year, 92% average. Soybeans 91% harvested, 87% last year, 88% average. Pecans 60% harvested, 58% last year, 61% average. Winter wheat 82% seeded, 88% last year. Roughage and grain supplies adequate. Pasture condition fair. Livestock condition fair to good. Wheat condition fair to good.

MISSOURI: Temperatures averaged from 3 to 7° above normal. Precipitation varied from less than 0.10 to 0.50 in.

Days suitable for fieldwork: 4.2. Corn 90% harvested, last year 100%, normal 90%. Grain sorghum 86% harvested, last year 100%, normal 91%. Soybeans 91% harvested, last year 99%, normal 90%. Wheat 90% seeded, last year 97%, normal 89%. Fall plowing 51% completed, normal 54%. Cotton 87% harvested, last year 100%, normal 92%. Condition of winter wheat and pasture fair to good. Topsoil moisture supply adequate to surplus.

MONTANA: Temperatures continued mild. Coolest areas were west of Divide and along the Divide in north central. Temperatures averaged 5° above normal in west to about 10° above normal in southwest, central and south central. Highest 65° at Broadus, lowest 10° at Broadus. Moderate to heavy precipitation fell over parts of west, north central and southwest as well as the northeast corner. Some areas of west received 1.50 in. of moisture.

Moisture in form of rain and snow helped soil moisture supplies. Winter wheat condition fair to good. High winds and no snow cover made the crop susceptible to wind damage. A mostly open week kept livestock grazing scrubble and fall pastures.

NEBRASKA: Precipitation: snowstorm produced 0.20 to 0.30 in. of moisture over Panhandle and 0.10 in. over remainder of State. Temperatures: 3° above normal except near 8° above normal over Panhandle where warmer temperatures occurred early in week.

Corn 85% harvested, 100% last year and 85% normal. Sorghum 91% combined, 100% last year and 95% normal. Soybean harvest 100%, 100% last year and 99% normal. Winter wheat good; 100% seeded, same as last year and normal. Winter wheat 100% emerged, same as last year and normal.

NEVADA: Showery over north and windy south most of week. Series cold fronts moved across north, each one preceded by strong winds and accompanied by precipitation. Net effect south was clouds with strong winds. Day temperatures not very warm but nights remained mild with cloud cover so average temperatures normal or above.

Cotton harvest starting. Grading and marketing potatoes active. Livestock feeding operations hampered by wet fields north.

NEW ENGLAND: Temperatures mild for this time of year. Overnight lows were above freezing everywhere. Precipitation significant every day except the 19th, 21st and 22nd. Heavy rains fell in Maine on the 16th, over the south on the 17th and 18th and over all areas on the 20th. Rainfall averaged 1.00 to 2.00 in. west, 1.50 to 3.00 in. over the central and the east portion of the north. Wettest area being the east portion of southern New England with 3.00 to 4.70 in.

NEW JERSEY: Temperatures were slightly above normal averaging 44° north, 46° south and 49° coastal. Extremes: 31° at Neshanic Station and 65° at Glassboro. Precipitation this per-

iod above normal averaging 0.95 in. north, 1.08 in. south and 1.28 in. coastal. Heaviest 24-hour total report 0.72 in. at Hammonton.

Light volume of hardy vegetables continues to move to market. Field corn and soybeans harvest in clean-up stage. Fruit pruning continues. Sweetpotatoes and apples moving from storages. Cider making active.

NEW MEXICO: Precipitation very limited and temperatures averaged near normal.

Soil moisture remains in an adequate supply in most areas. Open weather continued with light to moderate freezes. Farm activities included harvest of cotton, grain sorghum, red chile, and pecans. Cotton harvest remained active in all producing areas. Winter wheat and barley fields in good condition, however, some earlier planted fields showing rust. Corn for grain harvest nearing completion. Grain sorghum harvest continuing. Harvest of pecans increasing in activity. Peanut harvest nearing completion. Ranges in fair to good condition. Livestock in good to excellent condition as shipments continue.

NEW YORK: Temperatures above normal. Precipitation in many areas each day. Amounts varied from 2.25 in. on Long Island to less than 0.25 in. in St. Lawrence Valley. Snow flurries in many areas 21st and 22nd, 5 to 6 in. in the Adirondacks.

Wet field conditions continue to slow grain corn harvesting.

NORTH CAROLINA: Temperatures: near normal in the west to 2 to 4° above normal in the east. Precipitation: 0 in sections of the Piedmont to 0.73 in. at Elizabeth City.

Soil moisture: 21% very short, 60% short, 19% adequate. Fieldwork: 5.8 days suitable. Harvest: cotton 87%, 1980 95%, 80% average; sorghum grain 93%, 1980 90%, 91% average; soybeans 71%, 1980 59%, 55% average; corn for grain 98%, 97% average, 97%. Plantings: wheat 84%, 1980 87%, 82%; oats 96%, 1980 92%; barley 94%, 1980 92%; rye 82%, 1980 81%. Major farm activities: harvesting soybeans and planting fall cover crops.

NORTH DAKOTA: A major snowstorm 18 to 19th ended the mild, dry weather that had prevailed. Precipitation well above normal over west and central and near normal east. Northwest received most precipitation with up to 6.4 in. of snow and 0.76 in. of precipitation. Least precipitation in northeast. Temperatures averaged from zero to 4° above normal. Extremes: 62° southwest 16th to 0° north central 21st.

Blast of winter weather brought fieldwork to a halt in many areas, but most fieldwork already completed. Harvest virtually completed a week earlier. Precipitation helpful in drier western areas. Snowfall reduced amount of grazing possible, but relatively warm temperatures were an aid in avoiding livestock problems.

OHIO: Rainfall on 19th brought a halt to fieldwork. Totals ranged from less than 0.50 in. in southeast to over 1.00 in. Totals were below normal in parts of the south. Temperatures were near normal. Highs in mid-50's north to around 60° south. Lows fell into low 20's and teens.

Harvested soybean quality was rated fair. Reports of elevators turning down some low quality beans. Corn still test weighing light. Storage capacity adequate in most areas. Marketing sluggish. Quality of emerged winter wheat stands rated good. Rainfall last week beneficial to crop as it enters winter dormancy. Soybeans harvested: 97%, 100% 1980 and average. Corn for

grain harvested: 85%, 100% 1980, 92% average. Winter wheat emerged: 90%, 99% 1980, 96% average. Days favorable: 5.5. Pasture condition fair to good. Soil moisture 10% short, 86% adequate, 4% surplus.

OKLAHOMA: No significant precipitation. Temperatures averaged from 1 to 7° above normal. Wet conditions hampered harvest and wheat seeding. Peanut losses due to decay. Some cotton grading lower. Wheat 95% planted, 95% last year, 100% average; 85% up-to-stand, 90% in 1980, 90% average; 15% grazed, 5% last year, 10% average. Sorghum 70% harvested, 95% previous year, 85% 5-year average. Soybeans 50% harvested, 85% in 1980, 80% average. Peanuts 75% harvested, 90% last year, 95% average. Cotton 15% harvested, 60% in 1980, 35% normal. Days suitable for fieldwork: 5.2.

OREGON: Temperatures average 2 to 8° above normal. Rainfall amounts ranged 2.80 to 5.30 along coast; 1.30 to 3.90 interior valleys; 0.65 to 3.90 east of Cascades.

Soil moisture adequate to surplus. Winter wheat fair to mostly good. Early wheat tillering. Reseeded and late seeded grain slow in emergence and growth in east. Weed spraying underway. Plenty of slugs in west, some damage. Winter wheat 99% seeded, same as last year; 94% emerged; 92% a year ago. Few filberts left to harvest. Carrot and other fall vegetable harvest continues. Range and pastures good. Livestock good. Fall calving well underway.

PENNSYLVANIA: Mild and mostly cloudy with periods of light rain and drizzle all areas except southwest through 19th. Turning colder 20th with strong gusty northwest winds through weekend. Precipitation 0.60 in. or less all sections except 1.50 in. northwest where first significant snowfall of season measured 5 to 9 in. higher elevations. Up to 5 in. new snow also observed in Laurel Mountains.

Five days suitable. Soil moisture adequate. Activities: Spreading manure; baling fodder; cutting firewood; and harvesting corn and soybeans. Corn for grain 89% harvested compared with 95% harvested last year and the average of 85% harvested. Soybeans 95% harvested, last year virtually complete at this time.

PUERTO RICO: Island average rainfall 0.89 in. or 0.44 in. below normal. Highest total 3.80 in. Highest 24-hour total 2.00 in. Temperatures averaged about 81 to 80° on Coasts and 76 to 75° Interior Divisions. Extremes: 94 and 57°.

SOUTH CAROLINA: Warm temperatures at midweek changed to frost or freezing with weekend lows mostly in 20's. Very light rainfall on 17th, 20th in most areas.

Soil moisture short. Nearly six days suited for fieldwork. Cotton gins about to catch up; 95% harvested, 96% year ago, 90% average. Soybean yields disappointing but some exceed recent expectations, 71% harvested ahead of 40% 1980, 53% average. Winter grazing, fair condition with 89% planted, behind 96% year ago, 93% average; 77% emergence behind 88% last year, 86% average. Some growers again planting more wheat than usual, 67% seeded, 72% last year, 69% average. Emergence slowed by minimal moisture, 59% last year, 55% average. Small grain conditions fair to good. Pasture conditions poor to fair. Fall snap beans 96% harvested.

SOUTH DAKOTA: Mild and dry weather at the beginning of the week gave way to colder temperatures and precipitation in the form of rain or snow by the middle of the week. Average temperatures ranged from 5° above normal at Oelrichs to 4° below normal at Brookings. Temperatures ranged from a high of 75° at Herrington to a low of zero at Brookings. Largest amount of precipitation

was reported at Sioux Falls with a total of 0.73 in. The yearly precipitation totals remained above normal in central sections of the State and below normal elsewhere. The departures from normal ranged from 2.78 in. above normal at Moberly to 7.66 in. below normal at Pickstown.

TENNESSEE: Cold fronts moved through the State 16th and 19th. The remainder of the week was dominated by high pressure. Rain fell in association with the fronts.

Soil moisture mostly adequate. Fieldwork: 4.6 days suitable. Cotton 86% picked, 1980 100%, average 78%. Soybeans harvested 90%, 1980 100%, average 78%. Corn harvested 94%, 1980 100%, average 83%. Burley tobacco 78% stripped, 1980 77%, average 75%. Pasture condition fair. Cattle in good condition. Fall plowing 90% complete, 1980 90%, average 88%. Wheat seeding 89% complete, 1980 98%, average 86%.

TEXAS: Weather: A series of Pacific Gulf fronts moved through but low level moisture kept conditions dry. Temperatures were generally a few degrees below normal.

Crops: Generally open weather, cool nights, warm days allowed field operations progress rapidly. Harvest cotton, grain sorghum, peanuts, soybeans active. Land preparation, planting of remaining small grains continued. Cotton harvest gained momentum. Stripping in full swing on High, Low Plains. A hard freeze 20th killed remaining green plants on High Plains. Reported condition 5% excellent; 66% good; 27% fair; 2% poor. Grain sorghum harvest neared completion under favorable conditions. Small grains continued to make excellent progress. Early planted fields providing grazing. Oats responding well to favorable moisture conditions. However, some problems from greenbugs, armyworms reported. Wheat making excellent growth; livestock being turned onto pastures. Wheat condition reported at 15% excellent; 71% good; 11% fair; 3% poor. Peanut harvest active in Cross-Timbers and neared completion in South Texas. Soybean harvest progressed steadily Northeast Texas and along Coast. Sugarbeet harvest continued on High Plains. Cotton open bolls 95%, 98% 1980. Cotton harvested 42%, 64% 1980, 55% average. Sorghum harvested for grain 99%, 99% 1980, 98% average. Wheat planted all purposes 93%, 92% 1980, 95% average. Wheat emerged 86%, 86% 1980. Peanuts harvested 78%, 74% 1980, 91% average. Soybeans harvested 73%, 80% 1980, 87% average. Sugarbeets harvested 89%, 51% 1980, 77% average. Pecans harvested 42%, 31% 1980, 41% average. Sunflowers 85%, 80% 1980, 92% average. Oats planted 90%, 92% 1980, 93% average.

Range and livestock: Conditions of ranges, pastures remained good, warm days, cool nights helped promote growth. Small grain grazing improved, movement of livestock to wheat, other small grain fields increased. High Plains, wheat fields providing excellent grazing, prospects for continued grazing good. Central, South Texas permanent winter pastures flourishing, livestock good to excellent condition. Despite grazing, supplemental feeding continues.

Commercial vegetables: Rio Grande Valley harvest of cabbage, cauliflower, cucumbers, peppers, squash active. Conditions favorable, all fall crops progressing well. Harvest of tomatoes slowed, spinach harvest underway soon. Onion planting active. Harvest of early oranges, grapefruit continued. Coastal Bend, fall vegetables progressed well. Cucumber harvest nearing completion. San Antonio-Winter Garden area, cabbage harvest active, some carrots being shipped. Spinach harvest expected soon. East Texas, fall crops winding down. Tomatoes, peppers continue to progress. Sweetpotato harvest completed. Trans-Pecos region, harvesting of cabbage, lettuce chili peppers active. Planting of carrots, onions

resumed. Pecan harvest continued. Yields good, quality only fair.

UTAH: Recurring periods rain in valleys and snow in mountains principally northwest. Accumulated amounts moisture light to moderate. Average temperatures ranged from 4 to 13° above normal. Soil moisture conditions in lower levels still markedly deficient.

Onions and potatoes moving into storage. Sorting and marketing in progress. Apple marketing continues. Farm activity limited.

VIRGINIA: Mild fall temperatures gave way to wintry weather over the weekend, as the coldest outbreak of winter weather moved into area. Average temperatures in mid 40's, near normal for mid-November. The extremes ranged from highs in the lower 70's to lows near the 10° mark. Precipita-

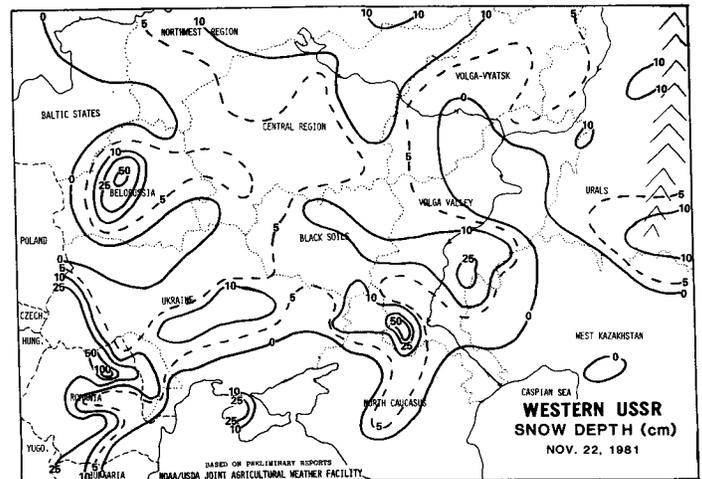
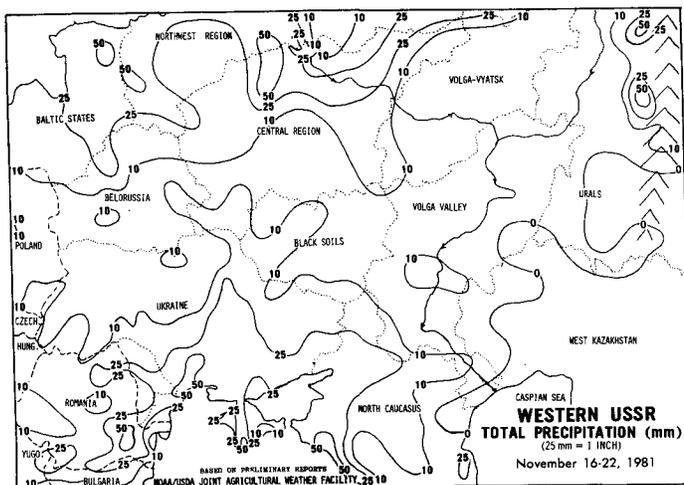
tion was light, some fell as snow in western and northern mountains on the 20th and 21st, with several in. reported in some locations.

Burley tobacco growers preparing for the opening of the marketing season this week. Other seasonal activities continued: Land preparation, tobacco bed fumigation, fence mending, tending livestock and gathering firewood. There were 5.5 days suitable for fieldwork. Dry fields curtailed activity in some areas and topsoil moisture rated 66% short and 34% adequate. Pastures were rated in good condition and winter grain and grazing crops were also good. Wheat seeding 85% complete, 77% 1980 and average. Corn harvest 95% complete, 93% 1980, 89% average. Soybeans 77% combined, 62% 1980, 65% average. Sorghum 76% harvested, 56% 1980, 65% average. Cotton 95% picked. Beef (Continued on page 16.)

International Weather and Crop Summary

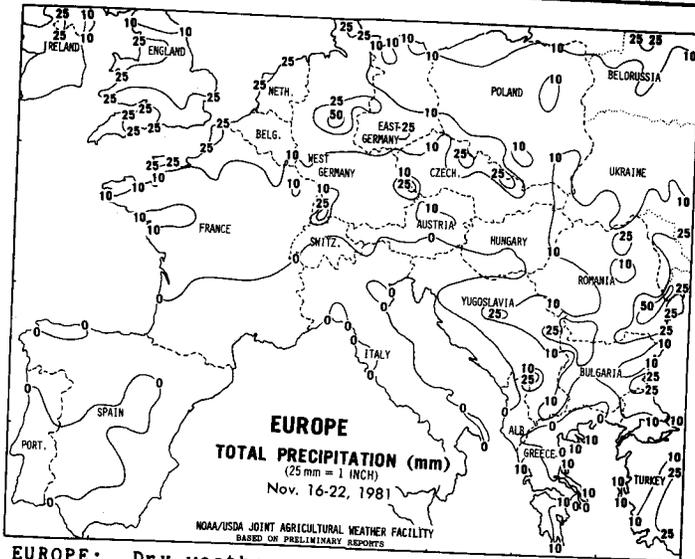
HIGHLIGHTS
November 16-22, 1981

- USSR: Beneficial rains improve subsoil moisture conditions for winter wheat in the Ukraine.
- EUROPE: Persistent dryness delays winter grain sowing in Spain; adequate moisture elsewhere.
- MEXICO: Sunny weather favored winter crops development along the west coast and harvesting elsewhere.
- NORTHWESTERN AFRICA: Still too dry for winter grains in western Algeria and Morocco.
- SOUTH AFRICA: Beneficial showers improved corn planting conditions.
- EASTERN ASIA: Dry, cold weather limits wheat growth in northern crop areas; favorable agricultural weather elsewhere.
- AUSTRALIA: Dry weather in the wheat belt but locally heavy showers in Queensland's sugar cane area.
- SOUTHEAST ASIA: Irrigation reservoirs benefit from significant rainfall in much of Thailand.
- SOUTH ASIA: Dry weather aids crop harvests but reduces moisture for winter wheat growth.
- SOUTH AMERICA: Showers aid coarse grain and oilseed crop growth but interfere with the wheat harvest in southern Brazil.



USSR: A storm system moved from the Mediterranean Sea into the western Ukraine producing widespread precipitation. Amounts, ranging from 25 to 50 mm, improved subsoil moisture conditions. Modest precipitation fell on northern and central winter wheat areas where cold temperatures have induced dormancy. Generally dry weather prevailed over

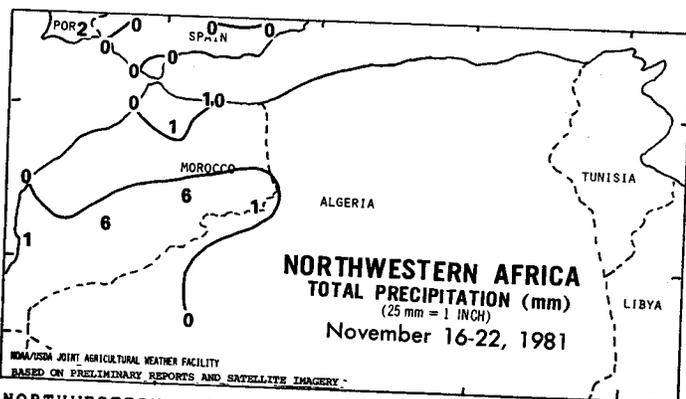
the Volga Valley and southeastern areas where winter wheat has also entered dormancy. The only areas where temperatures have allowed some growth of winter wheat appear to exist in those western areas adjacent to the Caspian Sea where widespread rains have maintained favorable conditions for early growth of wheat.



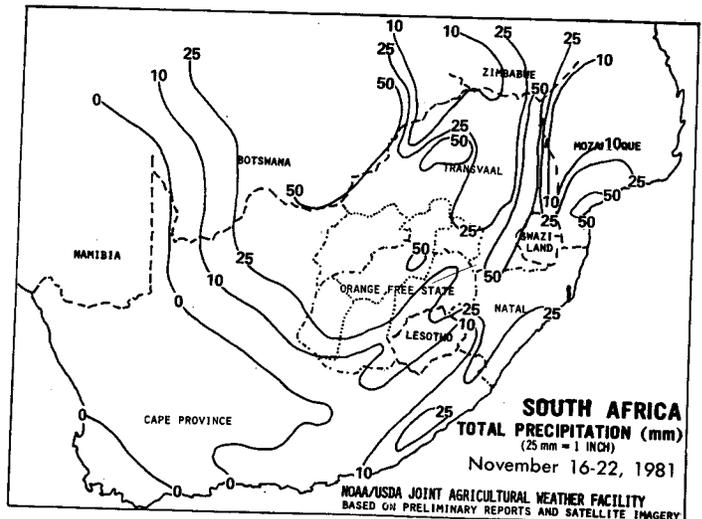
EUROPE: Dry weather continued to persist over the southwestern part of the region. The sowing of winter grains in the Iberian Peninsula is being delayed due to limited topsoil moisture essential for proper germination and early growth. The dry weather allowed late harvesting of grains to continue. Beneficial rains (10-25 mm) fell on northwestern Europe maintaining favorable conditions for early growth of winter grains. In northeastern areas, favorable precipitation maintained adequate soil moisture supplies for winter wheat, most of which is dormant. In the southeast, below normal temperatures allowed only limited wheat growth.



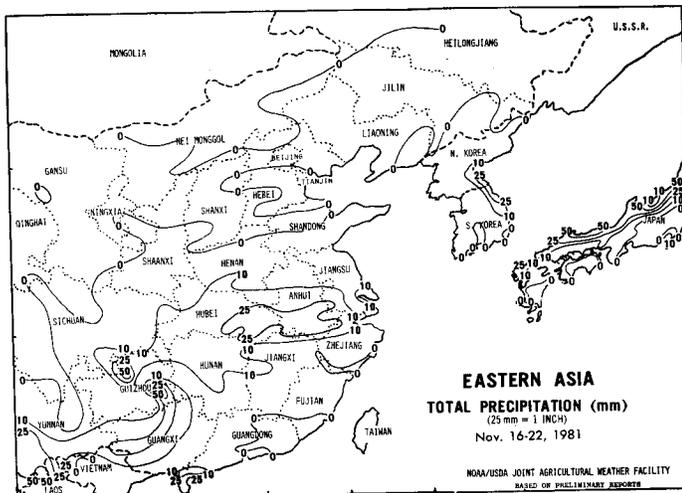
MEXICO: The dry pattern spread further south, generally favoring agriculture. Sunny, mild weather dominated most of the country and was helpful for harvesting corn in the southern Plateau and citrus and sugarcane in the east, as well as for development of winter vegetables and wheat along the west coast.



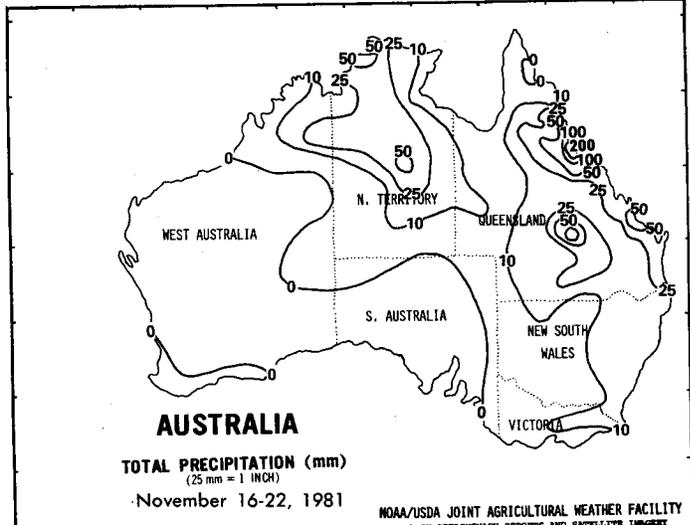
NORTHWESTERN AFRICA: Little precipitation fell on the northern coastal area of Tunisia, Algeria, and Morocco. Currently, winter grain planting is underway in Tunisia and eastern Algeria where a favorable outlook exists. In contrast, winter grain planting is being delayed in Morocco and western Algeria, due to persistent dry weather.



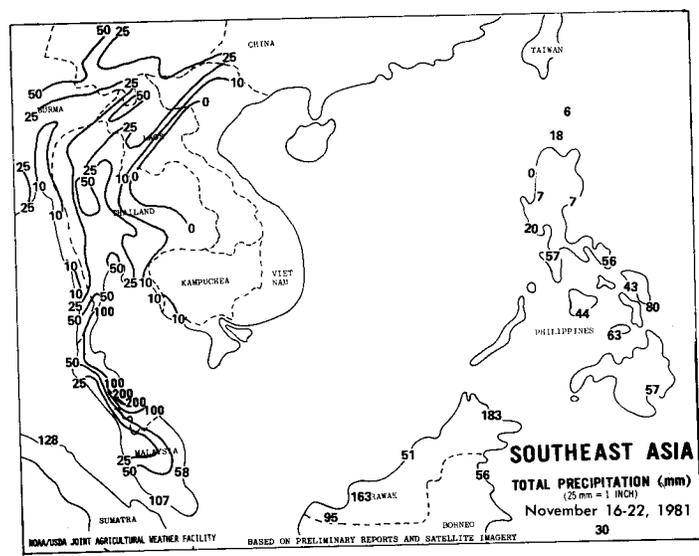
SOUTH AFRICA: Beneficial showers occurred throughout much of the corn-growing region providing needed moisture for planting. The rain was extremely helpful in southern and western portions of the corn triangle where very little corn planting had occurred before last week due to dry soil conditions. Additional rainfall is needed to ensure sufficient soil moisture for crop emergence and early growth; however, corn planting will continue through mid to late December in the Orange Free State and the Transvaal. Timely rains within the next few weeks can, therefore, turn the present uncertainty into more favorable crop prospects.



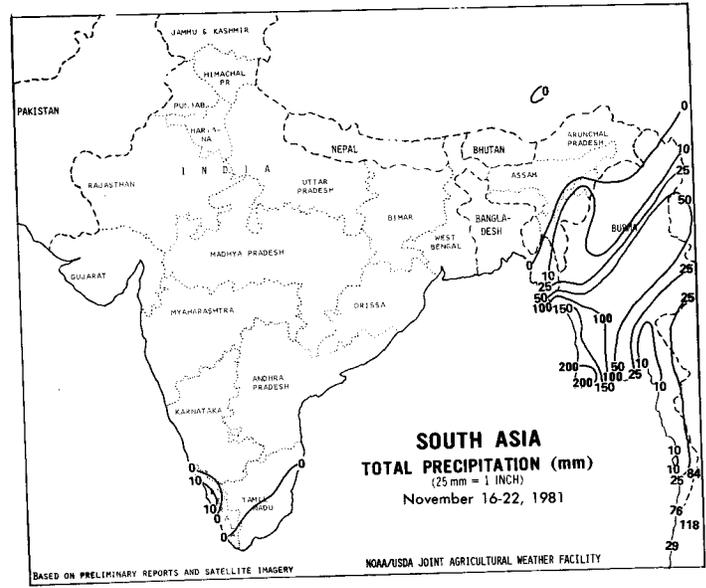
CHINA: Generally dry weather occurred over winter grain areas north of the Yellow River Valley. This dry weather pattern has persisted for several weeks delaying the planting of winter grains in many areas, in particular Hebei. In addition, cold weather is limiting wheat growth. As the winter pattern continues to set in, the possibility of additional planting diminishes considerably. Beneficial rain and favorable temperatures in central winter wheat areas permitted the normal growth of wheat. Drier weather in southern coastal areas benefited the harvest of late rice and improved winter grain planting conditions. In South Korea, generally dry weather and below-normal temperatures limited the growth of winter wheat.



AUSTRALIA: Locally heavy showers fell over the Northern Territory, Queensland, and eastern New South Wales, but mostly dry weather prevailed in southern and western wheat areas. The sugar cane crop along Queensland's east coast and pastures further inland benefited from the rainfall, but Queensland's late wheat harvest may have been disrupted. The dry weather in other major wheat producing states aids harvest operations as the wheat crop begins to reach maturity in some areas. However, the reliance of the crop on stored soil moisture due to relatively dry weather for the past several weeks has increased the variability in potential crop yields throughout the wheat belt. The key factor in the yield outcome will be the frequency and timing of scattered showers which occurred during the latter half of the growing season.



SOUTHEAST ASIA: Postmonsoon showers continue to provide beneficial moisture for crops and reservoirs in Thailand. Significant weekly rainfall of 25 to 50 mm occurred throughout much of the Central Plains and northern highlands, improving irrigation supplies for the second rice crop. Northeastern Thailand was mostly dry, however. Further south, heavy rain fell along peninsular Thailand, Malaysia, Indonesia, and the southern Philippines.



INDIA: Mostly dry weather occurred over all of India allowing the harvest of groundnuts, autumn rice, and winter rice to progress with little delay. However, the dry weather was unfavorable for emergence and early growth of winter wheat and for cotton, which is still in the boll formation stage. A tropical storm, moving northeastward into Burma, produced heavy rain in some areas. (Continued on page 16.)



State Summaries of Weather and Agriculture

(Continued from page 13.)

cattle and sheep continue to obtain most of their roughage from pastures and grazing.

WASHINGTON: West: Average temperatures were 3 to 7° above normal with precipitation about 0.50 in. above normal. Growers were busy cleaning up storm damage from the weekend of 14 to 15th. Crops harvested were carrots and poinsettia. Other activities included raspberry caning, field liming, machinery repair and preparation for Christmas tree harvest. Winter cover crops in good shape. Most cattle on winter rations with adequate hay supplies.

East: Temperatures were 4 to 6° above normal. Precipitation, almost all falling as rain, was about 0.50 in. above normal. Field activities have slowed down dramatically. The activities still underway include corn harvest, winter wheat seeding and general maintenance. Fruit activities included rodent control, pear tree pruning in the early areas and meetings. Fall seeded crops in good shape with good to adequate soil moisture.

WEST VIRGINIA: Temperature averaged 1 to 5° above normal. High 73°, low 16°. Precipitation averaged 0.25 to 0.50 in. below normal. Precipitation fell as snow during latter part of week. Accumulations of 5 in. reported.

Soil moisture adequate to short. Days worked

averaged 4.8. Corn 89% harvested. Pastures poor to fair. Feeding common throughout State.

WISCONSIN: The week started on a mild note with four nice days. A storm enveloped northern areas on evening of 18th and early 19th dumping 2 to 4 in. of snow in northwest.

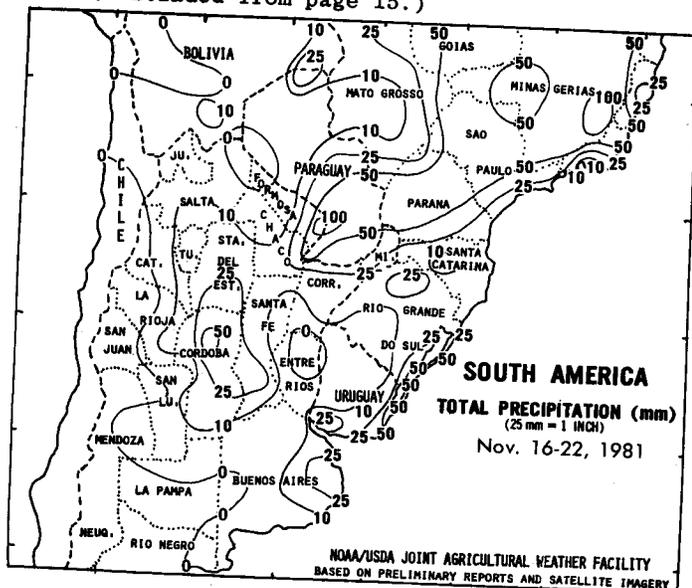
Fieldwork: 6 days suitable. Warm temperatures early in the week enabled corn harvest to progress. The corn harvest 82% complete, 99% 1980, 91% average. Cornstalks were being baled and chopped for bedding. Some areas of the State have excess moisture and farmers were waiting for a hard freeze to get back on the fields. Topsoil moisture supplies were rated 6% short, 81% adequate and 13% surplus. Moisture supplies were particularly abundant in the central district where they were rated 40% surplus. The soybean harvest winding down, 90% complete, 100% 1980, 98% average. Fall plowing was a major fieldwork activity and is now 63% complete, 67% 1980, 59% average. In some areas corn storage facilities taxed to the limit, some corn stored on the ground. Farmers going into the winter with generally good feed inventories although there appears to be a shortage of high quality hay.

WYOMING: Above normal temperatures, below average precipitation. Warmest temperature 72°, lowest 9°. Most precipitation 1.45 in.

Winter wheat mostly good condition, additional moisture would be beneficial. Corn harvest continues. Livestock mostly good condition.

International Weather and Crop Summary

(Continued from page 15.)



SOUTH AMERICA: Argentina's crop areas received mostly light rain except in Santa Fe, Cordoba, and extreme eastern Buenos Aires where 10 to 30 mm of weekly rainfall slowed fieldwork early in the week. Planting of coarse grains, sunflowers, and first-crop soybeans, which usually comprise about 65 percent of the total soybean crop, is underway in all areas. Sunflower planting has been completed in northern crop areas. The second soybean crop follows the harvest of wheat which is now mostly in the grain-filling period, although some of the early northern crop is reaching maturity. In Brazil, widespread showers provided ample moisture for corn and soybean growth but interfered with the wheat harvest in Rio Grande do Sul which usually completes 95 percent of the harvest by the end of November. The corn crop should be in the tasseling/silking period while soybeans are in early vegetative growth period.