

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

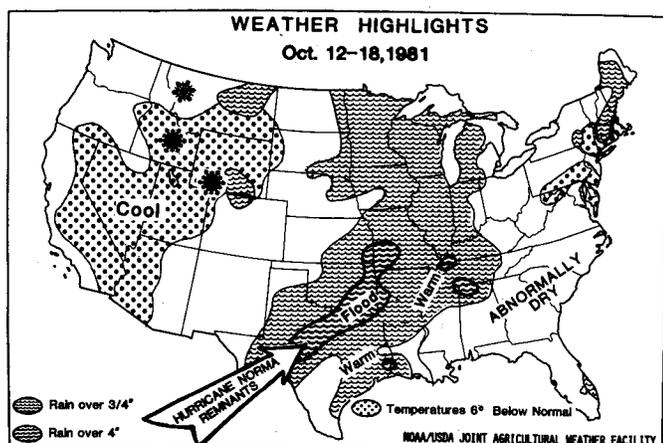
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Oct. 20, 1981

National Weather Summary

October 12-18, 1981



HIGHLIGHTS: Remnants of Hurricane Norma triggered heavy showers and thunderstorms from west central Texas into southwestern Missouri. The rains flooded many locations but were mostly beneficial to winter wheat in the central and southern Plains. The western two-thirds of the Corn Belt had too much rain for proper drying of corn and beans. Southeastern United States had little or no rain and is seriously dry. Cold air plunged southward at the end of the week.

MONDAY... Heavy thunderstorms continued to dump large amounts of rain over already saturated ground from west central Texas to southwestern Missouri. Strong southerly winds from the Gulf of Mexico carried moisture throughout the Great Plains. Showers fell over most of the area, central Plateau, and northern Rockies. Moderate to heavy snow covered the northern Rockies and northern high Plains.

TUESDAY... Severe weather and heavy rain continued from central Texas through eastern Oklahoma and into Missouri. Moderate to heavy showers extended into eastern Iowa. Lighter showers covered the Plains from the Texas gulf coast to South Dakota and eastward to the Mississippi River and the western Great Lakes. Showers continued in the central Plateau and Rockies. Cold weather settled in the Northeast. Freezing temperatures were scattered from northern Michigan to New England.

WEDNESDAY... Thundershowers continued over eastern Texas but the heavy downpours were nearly ended. Some heavy thunderstorms hit a small area in southeastern Texas and some moderate showers were reported in the Panhandle. Drizzle covered the central Plains and Rockies and light showers dotted most of the Mississippi River Valley and the Great

Lakes region. The western two-thirds of the Corn Belt was covered with light showers, slowing the drying process of corn and beans.

THURSDAY... A cold front spread showers from Michigan through the Northeast and southwestward into New Mexico. Showers were ending in the western part of the Cornbelt and lightening in the eastern part. Heavy thunderstorms developed through Oklahoma, northern and west central Texas, and moved into parts of western Arkansas. Some undesirable flooding occurred, but most of the major winter wheat area had rain. Showers of rain or snow were scattered throughout the central Plateau, the central and southern Rockies, and the central Plains.

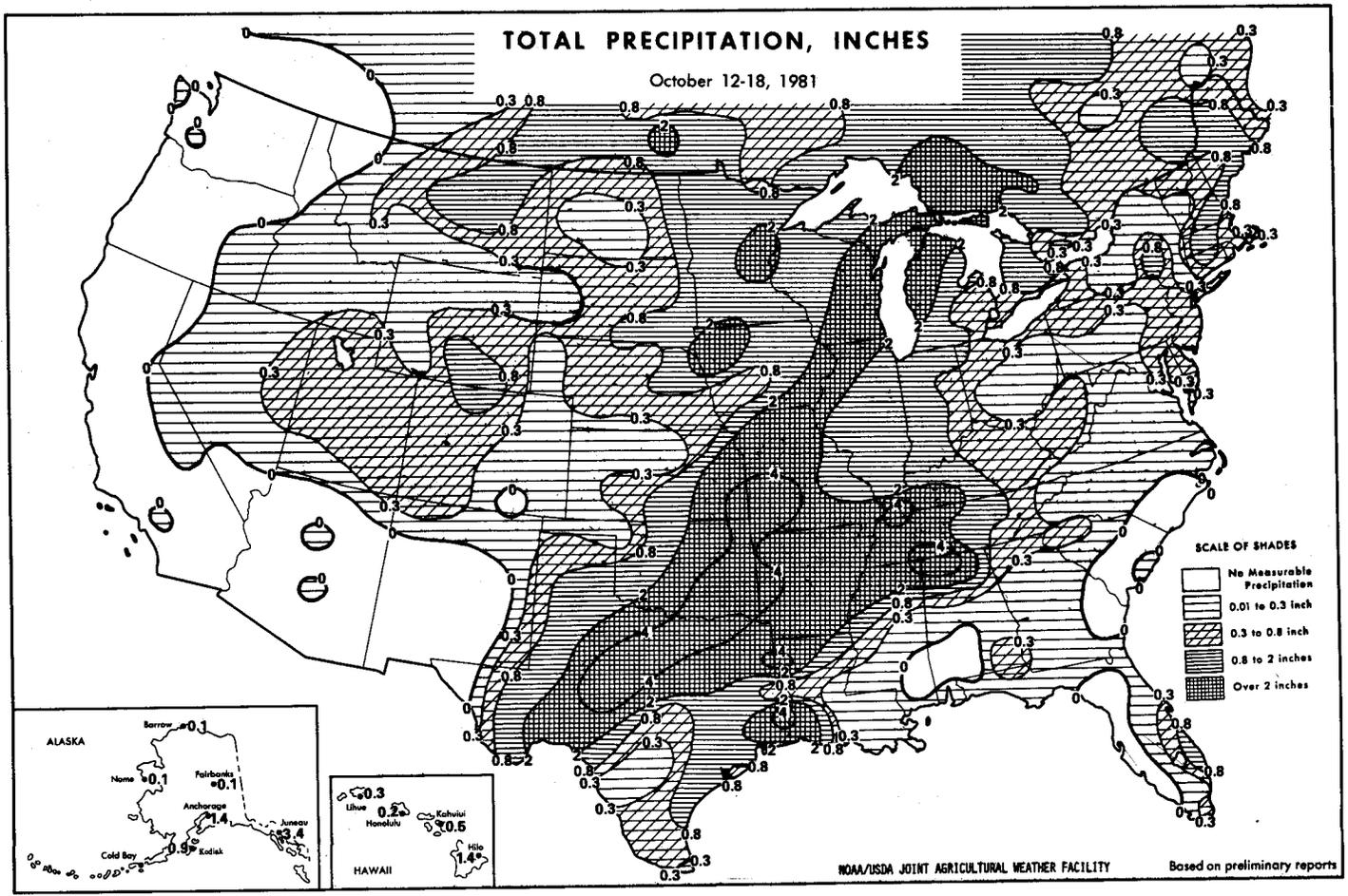
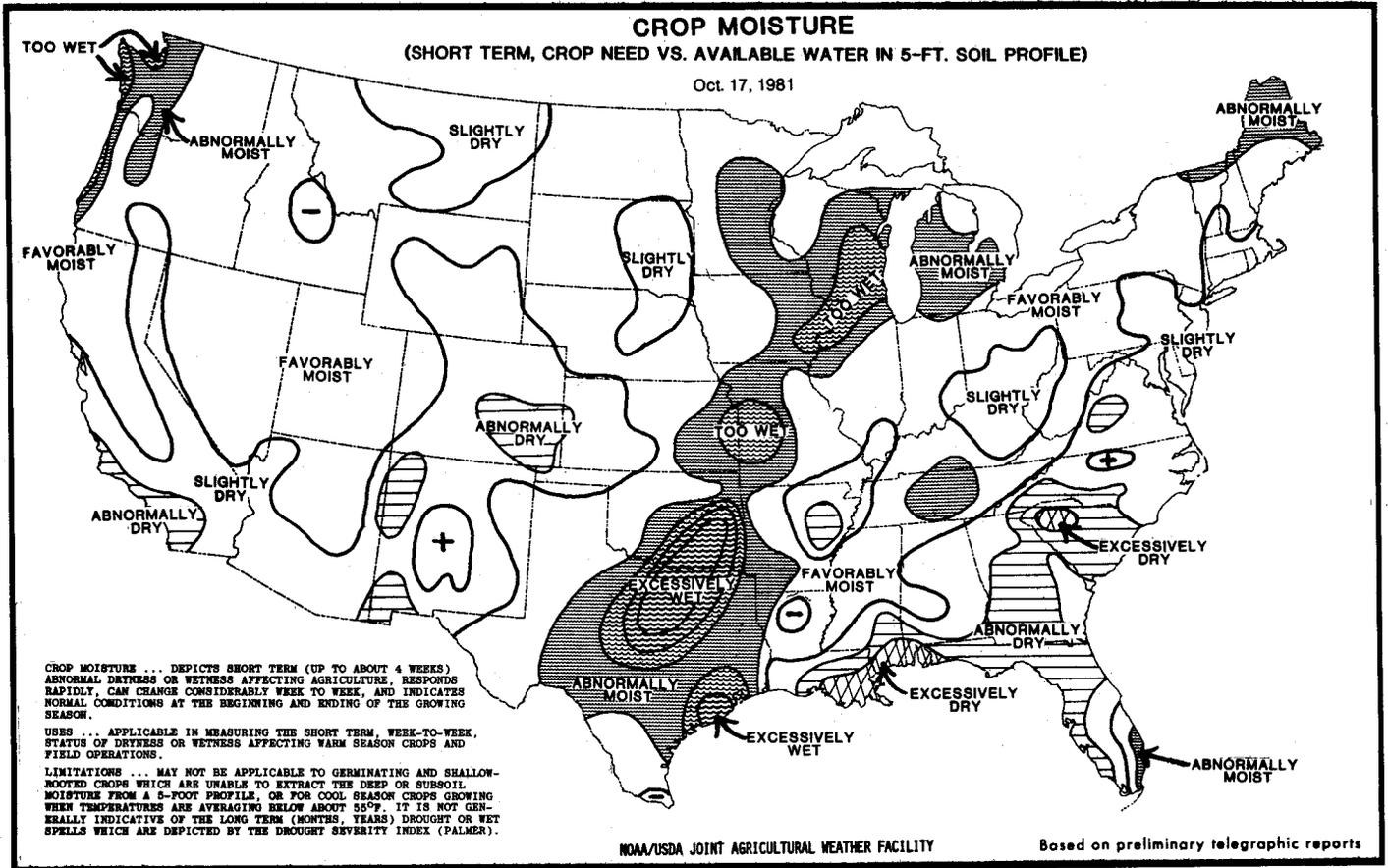
FRIDAY... The weather system which brought deluges of rain to much of south central United States for several days continued to scatter showers and thunderstorms from eastern Texas through Oklahoma, eastern Kansas, Missouri, and Arkansas. Some heavy showers pushed into southern Illinois. Lighter showers covered the rest of the central Plains, the northern Plains, and the central Rockies. Light to moderate showers were scattered over the western Corn Belt. Light showers fell along the cold front from the Northeast through the Ohio Valley. It was cool over the northern tier of States. Early morning temperatures were in the thirties from Washington through the Great Lakes.

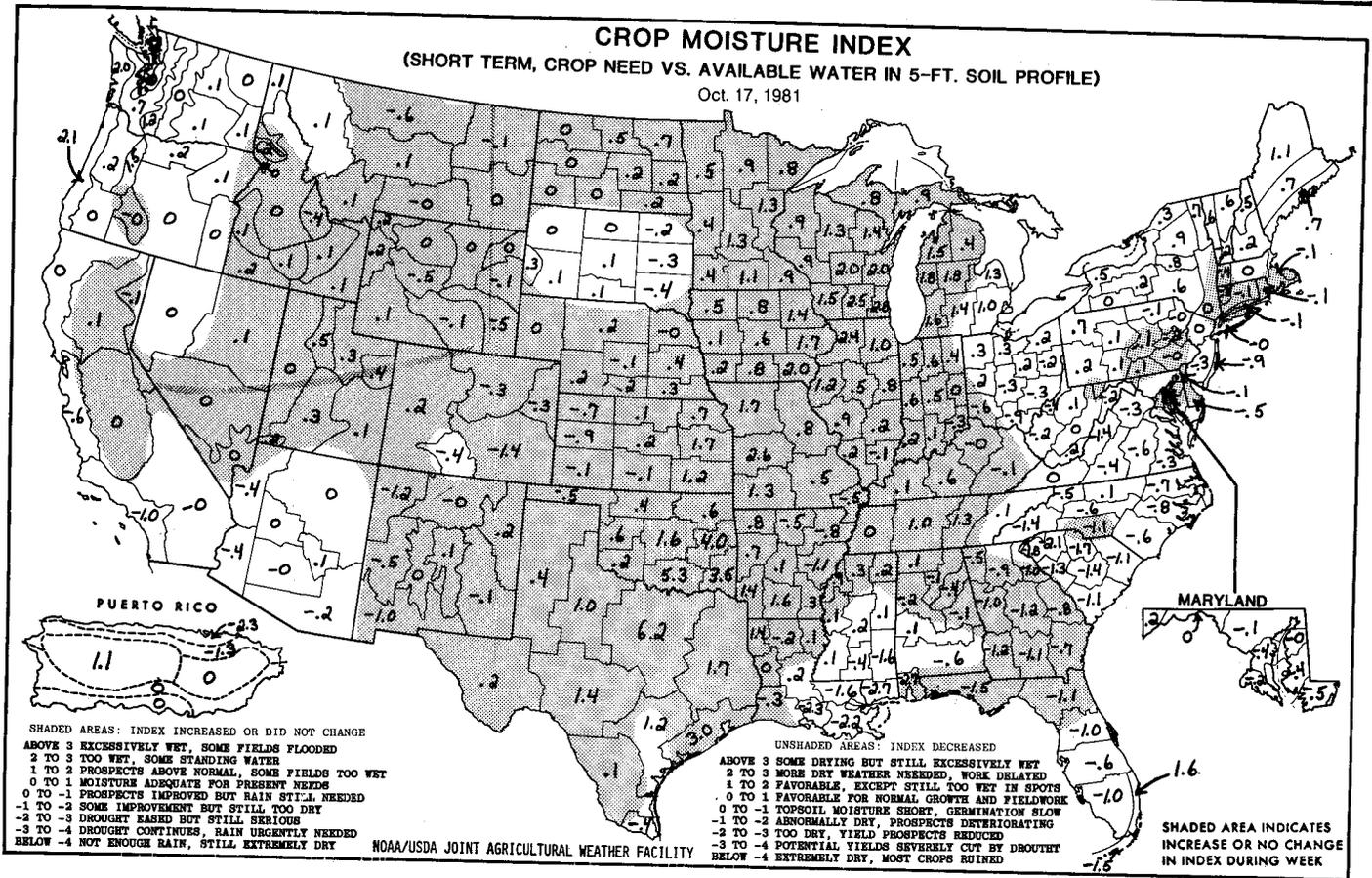
SATURDAY... Moderate to heavy thunderstorms continued to rumble in eastern Texas and Oklahoma, southeastern Kansas, southern Missouri, northern Mississippi, and the lower Ohio Valley. Light showers extended from the central and northern Rockies through the Great Lakes to the western Appalachians. It rained in all of the Corn Belt States and moderate showers were reported through the central Lakes region. Snow showers tapered off in the central and northern Rockies but some ski resorts were open for business.

(Continued on page 20.)

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MEDFLY SITUATION REPORT - OCTOBER 16, 1981

Additional Medflies were found in the West Covina and La Puente areas adjacent to the Baldwin Park area in Los Angeles County. The spray area was increased around these finds. Last week's report that a fly was found 40 miles south of Baldwin Park was incorrect. The find was only 1/4 mile south.

The spray area in the East San Francisco Bay area is being increased by 50 square miles to include a previously unsprayed pocket around recent finds in Hayward and Castro Valley.

One sterile Medfly (dyed blue from Hawaii) was found on 116th Street near the L.A. Airport. The fly, probably one of the batch that escaped 3 weeks ago, was sterile and not a cause for concern by County officials.

The Technical Advisory Committee has declared more than 1/3 of the sprayed area Medfly free. After 12 weekly applications entomologists felt two potential life cycles of the insect had passed without finds of larva or flies. As a result, 408 square miles were removed from the spray program. The area includes most of what was the original site of infestation - portions of San Jose, Santa Clara, Campbell, Saratoga, and San Mateo County. The remaining area of approximately 912 square miles, including Los Angeles, Stanislaus, San Benito, Santa Cruz, and the three Santa Clara Valley Counties, will

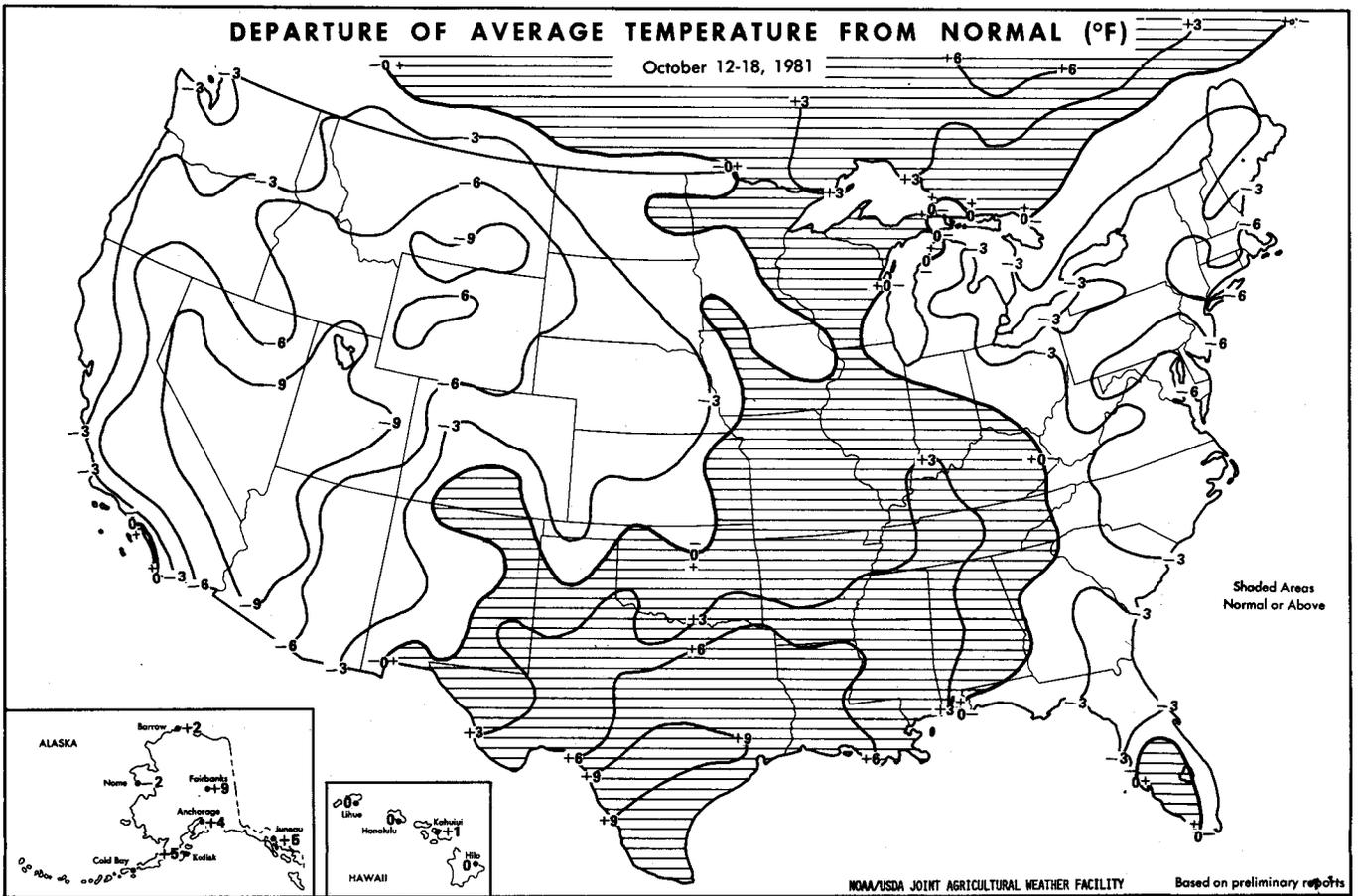
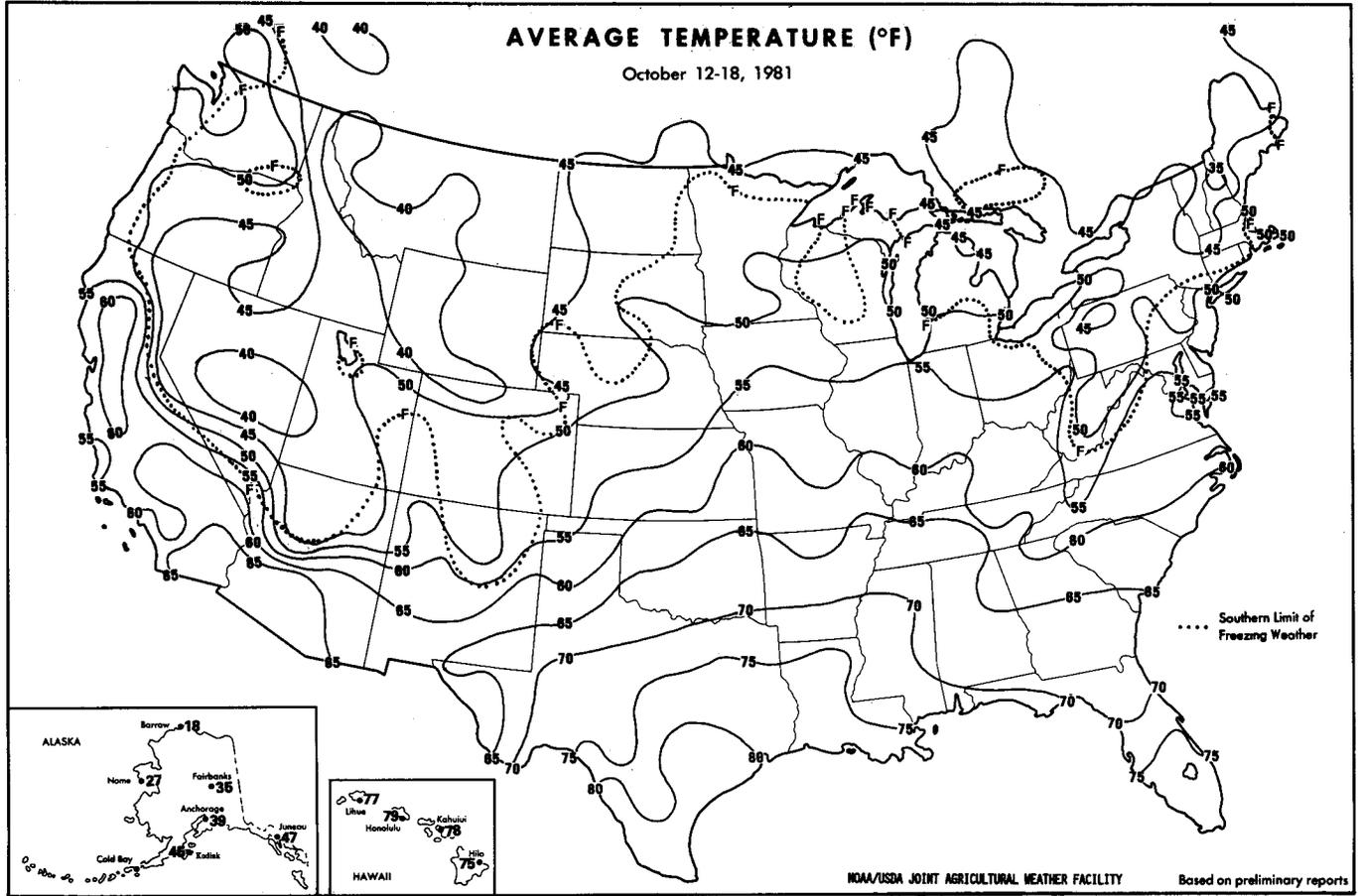
continue to receive weekly applications of Malathion bait until winter forces curtailment.

During the winter, officials expect to spray at least once every three weeks. Spraying would be delayed if weather was exceedingly cold or wet. Spraying would be more frequent if there were several days of temperatures exceeding 62 degrees.

A lengthy study by the State Auditor General's office released this week left unanswered the question of whether non-sterile Medflies from the Peruvian Laboratory disrupted the California eradication project. The report drew no conclusions and added that even through the Peruvian flies weren't sterile there was no way the State could recover damages from the company that supplied them.

Governor Brown has created a Pest Response Task Force to assess the lessons learned from the Medfly infestation and ensure more effective responses if a similar situation arises in the future. Richard Rominger, Director of Cdfa, will head the task force whose first task will be to formulate a "pest response action plan". The task force will include personnel from State, local and Federal agencies, as well as represent of agriculture, law enforcement and consumer groups.

Taiwan has agreed that apples, pears, grapes and citrus may now enter the country with only a certificate stating the shipment came from a non-regulated (non-Medfly area).



Weather Data for the Week Ending Oct. 18, 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
AL BIRMINGHAM	76	56	85	51	66	2	.3	-.2	.3	3.8	72	32.4	75	81	46	0	0	1	0
MOBILE	83	62	88	52	73	4	.1	-.4	.1	4.4	50	48.9	185	93	49	0	0	1	0
MONTGOMERY	79	58	86	52	69	3	T	-.4	T	4.6	78	38.7	96	84	45	0	0	1	0
AK ANCHORAGE	43	36	45	32	39	4	1.4	1.1	.6	4.3	123	17.2	142	94	77	0	2	6	1
BARROW	22	14	26	5	18	2	.1	0	.1	.8	89	---	---	100	98	0	7	2	0
FAIRBANKS	40	30	44	24	35	9	.1	.1	.1	1.3	76	8.4	88	93	63	0	4	1	1
JUNEAU	50	45	55	40	47	5	3.4	1.6	2.1	14.5	124	41.9	101	94	81	0	0	0	0
KODIAK	51	40	53	35	45	5	.9	.5	.4	8.5	84	53.5	122	89	67	0	0	7	1
NOME	34	20	37	13	27	-2	.1	-.3	.1	1.4	41	13.4	99	79	60	0	7	1	0
AZ FLAGSTAFF	52	33	60	24	43	-5	T	-.3	T	3.1	111	19.5	124	83	45	0	4	1	0
PHOENIX	80	57	92	52	68	-4	T	-.1	T	1.5	167	5.9	109	53	20	1	0	0	0
TUCSON	79	50	85	42	65	-5	T	-.1	T	1.1	58	13.3	143	58	21	0	0	0	0
WINSLOW	67	39	69	33	53	-5	T	-.1	T	2.0	143	8.2	115	---	---	0	0	0	0
YUMA	82	53	94	49	68	-9	0	.1	0	0	0	1.4	56	46	16	1	0	0	0
AR FORT SMITH	72	60	81	44	66	2	3.9	3.1	2.0	6.2	113	35.6	101	98	68	0	0	6	2
LITTLE ROCK	72	60	80	49	66	2	2.8	2.1	1.8	5.5	100	37.4	96	91	69	0	0	4	1
CA BAKERSFIELD	74	48	82	45	61	-6	0	.1	0	.7	350	5.1	121	63	25	0	0	0	0
EUREKA	61	45	64	42	53	-1	T	-.7	T	3.0	143	22.0	85	92	64	0	0	0	0
FRESNO	72	42	81	40	57	-7	0	.1	0	0	0	7.5	106	81	27	0	0	0	0
LOS ANGELES	72	53	86	51	63	-3	0	0	0	0	0	7.0	88	76	36	0	0	0	0
RED BLUFF	76	48	91	42	62	-4	0	.2	0	.4	400	2.2	244	18.5	125	77	27	1	0
SAN DIEGO	74	58	88	54	66	0	T	-.1	T	0	0	8.5	133	74	40	0	0	0	0
SAN FRANCISCO	69	47	73	45	58	-3	0	.2	0	.8	114	13.0	100	86	41	0	0	0	0
STOCKTON	75	42	83	39	59	-5	0	.1	0	.3	60	9.5	101	83	25	0	0	0	0
CO DENVER	58	40	72	34	49	-4	.3	0	.3	.8	40	11.5	83	84	44	0	0	0	0
GRAND JUNCTION	57	40	63	35	49	-7	.7	.5	.6	2.2	157	7.3	116	96	48	0	0	2	1
PUEBLO	67	45	82	30	56	1	1.1	-.2	.1	.6	43	7.0	61	74	37	0	1	2	0
CT BRIDGEPORT	60	39	67	34	50	-7	.5	-.1	.5	6.5	141	24.3	81	90	46	0	0	1	1
HARTFORD	63	33	67	28	48	-5	1.2	-.5	1.2	7.3	137	26.3	78	82	32	0	4	1	1
DC WASHINGTON	68	46	76	42	57	-3	.5	-.1	.5	3.6	75	26.2	82	91	43	0	4	1	1
FL APALACHICOLA	81	59	85	57	70	-1	T	-.5	T	2.5	22	32.3	63	81	54	0	0	1	0
DAYTONA BEACH	81	62	86	55	71	-2	.2	-1.1	.1	7.8	71	33.1	74	94	55	0	0	3	0
FORT MYERS	87	67	90	61	77	0	T	-1.0	T	7.2	60	50.8	101	97	49	1	0	0	0
JACKSONVILLE	79	55	87	47	67	-4	T	-1.0	T	2.2	20	27.1	55	95	50	0	0	1	0
KEY WEST	85	75	88	73	80	0	.2	-1.1	.1	6.9	62	22.2	65	91	59	0	0	2	0
MIAMI	85	69	89	66	77	-1	.2	-1.8	.2	15.3	106	47.6	90	90	49	0	0	2	0
ORLANDO	85	62	89	56	73	-1	.1	-.9	.1	8.4	82	39.1	83	96	47	0	0	2	0
TALLAHASSEE	81	56	86	50	69	-1	.1	-.5	.1	5.4	61	42.0	78	95	42	0	0	1	0
TAMPA	83	61	84	55	72	-3	T	-.5	T	6.2	75	34.3	76	98	49	0	0	0	0
WEST PALM BEACH	83	67	86	61	75	-2	1.2	-.9	.7	10.7	67	42.5	79	96	53	0	0	3	1
GA ATLANTA	73	51	83	44	62	-1	T	-.5	T	7.0	146	32.7	82	91	46	0	0	1	0
AUGUSTA	75	47	80	45	61	-4	0	-.5	0	1.8	38	32.9	90	98	42	0	0	0	0
MACON	78	53	84	51	65	-1	.3	-.3	.3	3.8	81	36.6	98	93	46	0	0	1	0
SAVANNAH	77	54	83	50	65	-2	T	-.6	T	3.6	47	34.7	77	87	45	0	0	0	0
HI HILO	81	69	82	64	75	0	1.4	-1.1	.7	17.4	128	---	---	91	68	0	0	5	2
HONOLULU	87	71	88	68	79	0	.2	-.2	.2	.5	38	6.1	39	86	52	0	0	1	0
KAHULUI	86	71	87	64	78	1	.5	-.2	.2	1.2	133	---	---	78	56	0	0	3	0
LINOLE	86	68	87	64	77	0	.3	-.6	.2	2.9	74	---	---	90	58	0	0	2	0
ID BOISE	60	35	69	30	47	-5	T	-.2	T	1.0	125	10.0	112	87	43	0	2	1	0
LEWISTON	61	38	67	35	50	-2	0	.2	0	2.2	157	11.1	107	87	47	0	0	0	0
POCATELLO	52	30	63	26	41	-8	.3	.2	.2	1.4	175	10.3	127	90	47	0	5	2	0
IL CAIRO	69	56	72	44	62	0	.6	0	.3	2.7	52	35.2	91	---	---	0	0	2	0
CHICAGO	62	42	70	36	52	-2	.7	.2	.5	5.0	114	35.4	131	95	55	0	0	3	1
MOLINE	65	46	72	37	56	0	3.5	2.9	1.5	10.0	175	33.2	106	92	56	0	0	5	2
PEORIA	66	49	76	40	58	2	.8	.3	.4	3.2	63	36.5	121	92	63	0	0	4	0
ROCKFORD	62	43	71	34	52	-1	2.1	1.5	1.4	8.2	137	32.5	103	90	55	0	0	4	2
SPRINGFIELD	68	50	79	42	59	2	1.4	.7	1.1	3.3	62	43.3	145	87	60	0	0	3	1
IN EVANSVILLE	70	49	77	46	60	1	.9	.4	.9	3.3	75	36.7	107	77	54	0	0	2	1
FORT WAYNE	63	43	68	39	53	-1	.9	.3	.5	5.4	126	32.0	107	92	51	0	0	4	0
INDIANAPOLIS	68	48	73	41	58	1	1.1	.5	.6	3.4	76	32.2	101	83	47	0	0	3	1
SOUTH BEND	62	43	69	37	53	-1	.8	.1	.3	5.1	102	34.1	113	97	57	0	0	4	0
IA BURLINGTON	64	51	73	43	58	2	2.3	1.6	1.1	7.5	129	40.5	133	92	62	0	0	4	2
DES MOINES	64	49	71	36	57	1	.6	.1	.2	3.6	77	27.0	96	84	55	0	0	3	0
DUBUQUE	64	47	67	40	55	3	2.2	1.6	1.0	8.3	128	---	---	95	61	0	0	4	2
SIoux CITY	60	43	67	33	52	-3	2.5	2.1	.9	3.7	93	18.0	76	97	65	0	0	4	3
KS CONCORDIA	62	47	72	38	54	-4	.2	-.2	.2	3.2	70	30.0	118	95	69	0	0	2	0
DODGE CITY	66	50	83	40	58	-1	.4	0	.2	3.5	121	21.1	110	89	55	0	0	2	0
GOODLAND	60	42	81	33	51	-3	T	-.2	T	.4	18	20.1	129	89	51	0	0	3	0
TOPEKA	67	54	77	35	61	2	2.1	1.5	1.9	6.0	115	35.7	116	91	66	0	0	3	1
WICHITA	66	53	77	38	59	-1	1.3	.7	.6	5.0	89	22.3	80	97	72	0	0	4	1
KY LEXINGTON	70	48	75	39	59	0	.6	.2	.5	2.7	69	29.6	81	89	43	0	0	2	0
LOUISVILLE	71	50	76	42	61	2													

Weather Data for the Week Ending Oct. 18, 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
LAKE CHARLES	86	68	90	56	77	6	2.5	1.7	1.9	5.7	89	45.4	102	95	55	1	0	4	2
NEW ORLEANS	84	66	86	63	75	5	.1	-.3	.1	6.0	82	47.3	101	94	56	0	0	1	0
SHREVEPORT	83	66	88	55	75	7	1.0	.4	.7	8.3	173	38.3	107	99	63	0	0	5	1
ME CARIBOU	55	31	64	25	43	-1	.5	-.2	.4	4.4	81	36.6	129	90	41	0	4	2	0
PORTLAND	59	34	63	30	46	-3	1.5	.8	1.5	8.6	172	36.9	120	90	48	0	5	1	1
MD BALTIMORE	64	39	74	34	52	-6	.5	-.2	.5	4.2	87	26.0	79	84	36	0	0	1	0
MA BOSTON	59	41	62	38	50	-6	.6	0	.6	4.2	88	22.8	71	88	47	0	0	1	1
CHATHAM	56	44	59	39	50	-1	.1	-.1	.1	6.1	---	32.3	---	89	66	0	0	2	0
MI ALPENA	57	31	63	25	44	-4	.8	.4	.4	5.3	118	19.0	83	99	54	0	5	4	0
DETROIT	60	39	62	33	50	-4	.5	-.1	.3	6.8	179	27.3	104	90	51	0	0	2	0
FLINT	58	37	63	33	48	-4	.7	.2	.3	9.7	243	30.7	123	92	52	0	0	4	0
GRAND RAPIDS	63	39	70	34	51	-1	1.3	.7	.5	11.6	232	40.8	153	91	50	0	0	4	1
HOUGHTON LAKE	56	35	64	30	46	-2	1.3	.7	.4	4.2	84	26.9	114	99	54	0	2	4	0
LANSING	61	38	66	33	50	-2	.5	0	.2	8.8	220	28.6	114	99	54	0	0	4	0
MARQUETTE	55	35	65	25	45	0	1.7	1.1	1.2	6.4	108	27.9	95	98	60	0	4	3	1
MUSKEGON	60	39	69	32	49	-3	1.9	1.4	1.1	8.2	167	27.9	111	99	56	0	1	4	2
SAULT STE. MARIE	55	33	59	26	44	-3	2.1	1.5	.7	6.1	109	23.7	94	98	54	0	3	4	2
MN DULUTH	53	40	63	27	46	0	1.6	1.1	.9	5.7	121	26.0	99	95	55	0	1	3	2
INT'L FALLS	54	37	67	26	46	1	.5	-.1	.3	7.5	163	20.5	89	94	56	0	1	3	0
MINNEAPOLIS	60	44	65	31	52	1	1.5	1.1	.7	4.1	103	24.9	107	84	49	0	1	4	2
ROCHESTER	58	41	65	29	50	-1	1.1	.6	.6	5.0	109	31.4	125	89	52	0	1	4	1
SAINT CLOUD	57	36	66	22	47	-2	2.6	2.2	2.0	5.6	144	23.8	98	90	60	0	3	4	2
MS JACKSON	80	63	86	53	71	5	.3	-.2	.3	5.3	120	36.7	92	90	53	0	0	2	0
MERIDIAN	80	58	86	51	69	4	.1	-.3	.1	2.8	61	33.1	80	91	47	0	0	1	0
MO COLUMBIA	64	53	70	39	58	0	2.6	1.8	.9	3.9	57	42.8	129	96	77	0	0	5	3
KANSAS CITY	64	53	73	37	59	0	2.6	1.9	2.4	6.0	92	38.0	116	89	64	0	0	3	1
SAINT LOUIS	66	53	74	42	60	0	1.9	1.3	.8	5.1	113	39.8	133	98	72	0	0	6	2
SPRINGFIELD	67	56	76	40	62	2	4.7	3.9	1.5	5.6	86	36.4	107	96	77	0	0	6	4
MT BILLINGS	53	31	64	26	42	-8	.2	0	.2	.9	43	14.6	117	86	46	0	6	1	0
GLASGOW	51	32	61	29	42	-6	1.2	1.0	1.1	1.4	117	8.1	78	88	55	0	3	2	1
GREAT FALLS	52	35	67	23	44	-6	.5	.3	.5	1.2	67	13.3	99	80	49	0	3	2	0
HAVRE	54	32	71	26	43	-5	.7	.5	.7	1.7	100	9.2	86	95	54	0	5	1	0
HELENA	52	30	68	25	41	-5	.1	0	.1	1.3	93	12.5	128	90	49	0	5	1	0
KALISPELL	55	22	62	18	38	-5	T	.3	T	.5	26	15.4	114	95	46	0	7	0	0
MILES CITY	53	29	62	26	41	-8	.6	.5	.6	1.9	112	9.5	75	94	44	0	7	1	1
MISSOULA	53	29	61	23	41	-4	T	-.2	T	1.4	88	14.0	128	96	51	0	6	1	0
NE GRAND ISLAND	58	43	66	32	51	-4	.7	.4	.4	2.2	68	19.7	89	94	63	0	1	5	0
LINCOLN	61	46	68	35	53	-2	.3	-.1	.2	3.3	82	19.7	80	93	68	0	0	3	0
NORFOLK	59	42	67	32	50	-3	1.1	.8	.3	2.0	59	18.8	84	95	61	0	1	5	0
NORTH PLATTE	60	40	74	29	50	-2	.4	.2	.4	.8	29	21.6	116	96	55	0	2	2	0
OMAHA	60	45	66	33	53	-3	.4	0	.3	2.3	50	24.5	90	91	68	0	0	4	0
VALENTINE	55	38	75	31	47	-4	.8	.6	.4	2.7	129	17.1	101	90	52	0	2	4	0
NV ELY	49	26	61	24	37	-9	.8	.7	.7	3.3	367	9.2	144	90	49	0	7	4	1
LAS VEGAS	70	46	79	42	58	-10	0	-.1	0	.4	80	2.8	85	54	20	0	0	0	0
RENO	57	27	70	22	42	-9	T	-.1	T	.3	50	3.1	56	95	36	0	6	1	0
WINNEMUCCA	56	28	70	22	42	-7	.1	0	.1	1.2	150	5.3	84	84	36	0	5	1	0
NH CONCORD	62	29	68	22	46	-4	1.2	.7	1.2	7.0	152	34.2	124	96	40	0	6	1	1
NJ ATLANTIC CITY	65	36	74	34	51	-7	.4	-.4	.4	2.8	56	---	---	98	49	0	0	1	0
TRENTON	65	38	71	31	52	-6	---	---	---	---	---	---	---	91	41	0	2	0	0
NM ALBUQUERQUE	71	44	75	35	57	-1	T	-.2	T	1.8	138	7.3	106	75	26	0	0	0	0
ROSWELL	75	51	81	41	63	3	T	-.3	T	3.7	148	24.2	244	86	31	0	0	0	0
NY ALBANY	59	30	68	24	44	-8	.2	-.4	.2	4.6	92	22.9	85	90	39	0	5	1	0
BINGHAMTON	59	36	66	30	47	-3	.2	-.5	.2	5.3	108	23.3	77	86	41	0	2	2	0
BUFFALO	63	37	74	32	50	-2	.6	-.1	.5	5.9	116	29.6	105	90	37	0	2	3	1
NEW YORK	63	46	70	44	55	-4	.5	-.1	.5	4.3	86	26.2	79	88	41	0	0	1	1
ROCHESTER	60	35	72	30	48	-5	.1	-.5	.1	7.0	171	28.6	114	95	45	0	2	1	0
SYRACUSE	61	34	70	28	48	-5	.1	-.6	.1	8.0	178	25.0	87	94	47	0	4	1	0
NC ASHEVILLE	70	44	75	33	57	0	T	-.7	T	1.7	30	26.7	71	98	46	0	0	1	0
CHARLOTTE	70	47	78	42	58	-4	.2	-.5	.2	3.7	71	27.0	75	84	37	0	0	1	0
GREENSBORO	68	44	77	39	56	-4	.2	-.5	.2	6.9	128	32.1	93	87	42	0	0	1	0
HATTERAS	68	53	77	41	60	-5	T	-1.0	T	2.0	23	39.7	88	89	61	0	0	1	0
RALEIGH	71	43	78	40	57	-3	.1	-.6	.1	3.0	54	26.2	73	85	35	0	0	1	0
WILMINGTON	74	47	81	42	61	-5	T	-.7	T	1.7	22	37.1	80	89	41	0	0	0	0
ND BISMARCK	58	34	69	28	46	-2	.2	0	.1	2.4	120	13.1	87	83	42	0	3	3	0
FARGO	55	37	68	29	46	-2	1.0	.8	.5	3.7	142	16.3	90	93	57	0	3	3	0
WILLISTON	57	34	70	28	45	-1	.4	.2	.4	1.1	64	10.3	77	87	45	0	4	2	0
OH AKRON-CANTON	64	40	71	31	52	-2	.2	-.3	.2	4.1	100	35.1	119	86	39	0	1	3	0
CINCINNATI	69	46	75	43	58	0	.6	.1	.4	2.5	64	28.4	88	84	41	0	0	3	0
CLEVELAND	63	39	68	32	51	-3	.2	-.4	.2	7.7	175	32.4	109	81	39	0	1	3	0
COLUMBUS	65	40	68	34	53	-2	.2	-.2	.1	2.7	73	32.4	104	83	38	0	0	4	0
DAYTON	66	42	72	35	54	-2	.2	-.3	.1	5.7	158	35.2	122	91	48	0	0	2	0
TOLEDO	62	37	66	32	49	-4	.4	-.1	.3	7.8	205	31.6	121	94	55	0	1	3	0
YOUNGSTOWN	62	37	68	28	49	-4	.2	-.5	.2	5.4	126	29.7	96	83	38	0	1	1	0
OK OKLAHOMA CITY	74	56	87	47	65	2	2.0	1.4	1.1	7.3	135	34.6	122	97	65	0	0	4	2

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

Weather Data for the Week Ending Oct. 18, 1981

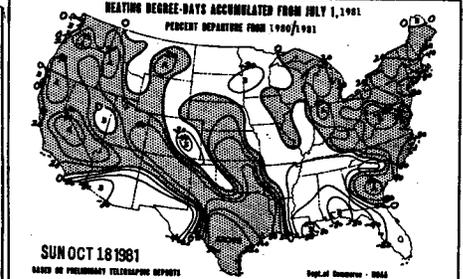
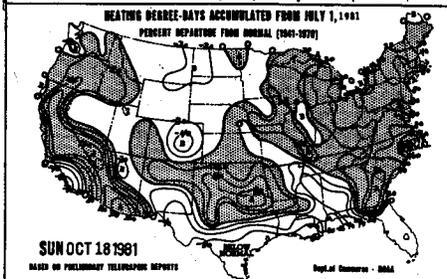
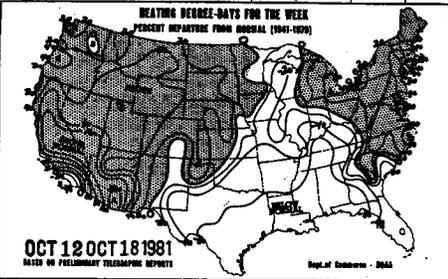
STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Aug. 31	PCT. NORMAL SINCE Aug. 31	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
OR TULSA	73	58	85	43	66	2	2.6	1.9	1.3	6.1	95	30.9	95	98	72	0	0	4	3
OR ASTORIA	65	40	71	34	52	-1	0	-1.5	0	8.6	137	42.8	100	92	58	0	0	0	0
OR BURNS	56	29	69	23	43	-5	.1	-.1	.1	1.5	167	8.8	107	77	42	0	5	1	0
OR MEDFORD	67	33	80	31	50	-4	0	-.5	0	1.5	88	7.8	59	93	37	0	5	0	0
OR PENDLETON	62	39	68	36	50	-3	T	-.3	T	2.0	167	11.0	121	87	44	0	0	0	0
OR PORTLAND	66	40	70	36	53	-1	0	-.8	0	4.5	125	20.0	82	100	55	0	0	0	0
OR SALEM	64	33	70	29	48	-5	0	-.9	0	5.9	164	22.6	86	100	57	0	0	0	0
PA ALLENTOWN	62	34	69	30	48	-7	.4	-.2	.4	3.9	74	28.3	83	91	40	0	4	0	0
PA ERIE	63	40	74	34	51	-1	.7	0	.6	7.5	136	35.3	117	84	38	0	3	1	0
PA HARRISBURG	63	39	69	32	51	-5	.4	-.2	.4	3.7	86	28.7	99	90	42	0	0	2	1
PA PHILADELPHIA	64	40	72	38	52	-6	.5	-.1	.5	3.8	81	30.1	94	91	42	0	1	1	0
PA PITTSBURGH	62	38	69	32	50	-4	.2	-.3	.2	4.9	120	31.6	106	90	39	0	0	1	0
PA SCRANTON	60	38	66	33	49	-4	.6	0	.6	4.8	109	30.1	106	84	47	0	0	1	0
RI PROVIDENCE	63	31	67	22	47	-7	.4	-.3	.4	4.6	88	25.4	78	93	37	0	4	1	1
SC CHARLESTON	76	52	82	47	64	-2	T	-.7	T	1.9	26	42.4	93	85	41	0	0	1	0
SC COLUMBIA	76	49	82	46	62	-2	T	-.6	T	.8	13	28.5	71	93	36	0	0	0	0
SC GREENVILLE	71	48	80	43	60	-2	.5	-.2	.5	2.7	47	23.0	59	77	34	0	0	1	0
SD ABERDEEN	55	40	66	32	47	-2	-.5	-.2	-.5	2.7	47	23.0	59	77	34	0	0	1	0
SD HURON	57	41	62	32	49	-2	.5	-.2	.4	2.7	100	14.1	79	96	60	0	1	0	0
SD RAPID CITY	54	37	60	31	45	-6	.2	-.1	.1	1.9	95	13.6	81	90	48	0	2	3	0
SD SIOUX FALLS	59	42	64	31	50	-1	1.5	1.2	1.0	2.8	72	16.4	72	85	55	0	1	4	1
TN CHATTANOOGA	73	53	82	46	63	2	.4	-.2	.4	3.8	68	34.3	84	80	43	0	0	2	0
TN KNOXVILLE	72	52	79	44	62	1	.4	-.1	.4	7.3	174	33.8	91	91	49	0	0	2	0
TN MEMPHIS	74	61	80	50	68	4	3.8	3.2	3.4	6.7	146	33.8	85	87	50	0	0	1	0
TN NASHVILLE	74	58	80	51	66	5	1.0	.6	.9	2.5	56	33.9	91	80	44	0	0	2	1
TX ABILENE	81	65	88	51	73	6	7.6	6.9	3.8	11.6	290	26.1	126	90	47	0	0	2	2
TX AMARILLO	71	46	82	38	59	-1	.8	-.4	.8	4.7	152	19.2	108	97	51	0	0	2	1
TX AUSTIN	88	73	91	61	81	10	.6	-.1	.4	8.6	151	43.7	160	85	52	5	0	2	0
TX BEAUMONT	85	71	89	57	78	8	1.6	.8	1.1	8.6	112	44.0	99	99	61	0	0	3	1
TX BROWNSVILLE	90	75	93	65	82	6	.2	-.6	.2	5.5	72	27.1	125	89	56	6	0	2	0
TX CORPUS CHRISTI	89	73	92	58	81	7	1.0	.3	.9	3.3	46	34.6	140	96	60	6	0	2	1
TX DEL RIO	87	70	91	64	78	6	1.0	.5	.9	6.2	132	26.5	173	84	56	1	0	2	1
TX EL PASO	78	51	85	42	65	0	0	-.2	0	.9	50	12.2	177	79	25	0	0	0	0
TX FORT WORTH	82	65	89	53	74	6	4.1	3.5	2.3	10.5	210	37.0	134	93	59	0	0	4	2
TX GALVESTON	85	77	86	64	81	7	1.3	.7	.7	4.7	61	31.2	90	87	68	0	0	3	2
TX HOUSTON	88	72	91	57	80	9	2.0	1.1	1.1	14.6	203	47.4	122	95	53	3	0	5	1
TX LUBBOCK	73	55	82	47	64	3	1.6	1.1	1.6	7.1	192	22.1	134	96	55	0	0	2	1
TX MIDLAND	81	62	89	51	71	5	1.2	.8	1.6	5.6	236	16.8	140	88	44	0	0	2	1
TX SAN ANGELO	80	62	85	48	71	3	4.2	3.7	2.7	9.7	231	28.4	184	96	50	0	0	2	1
TX SAN ANTONIO	89	73	92	53	81	10	.2	-.5	-.1	7.4	128	33.4	139	92	51	5	0	4	2
TX VICTORIA	88	71	91	55	80	7	1.6	.8	1.6	4.9	70	37.2	130	95	51	4	0	2	1
TX WACO	85	69	90	55	77	7	2.4	1.8	1.2	10.6	212	30.8	118	91	56	1	0	4	3
TX WICHITA FALLS	78	59	88	47	69	2	3.4	2.8	1.8	9.0	191	30.1	125	99	64	0	0	4	2
UT BLANDING	59	37	65	33	48	-4	.5	.1	.5	2.9	153	11.3	122	85	48	0	0	2	0
UT SALT LAKE CITY	53	38	60	34	45	-8	.5	.2	.2	3.0	231	12.3	102	89	54	0	0	4	0
VT BURLINGTON	57	35	66	27	46	-3	.5	-.1	.4	8.0	163	34.1	131	86	41	0	3	2	0
VA LYNCHBURG	66	42	74	36	54	-4	T	-.6	T	3.8	76	28.4	91	93	47	0	0	0	0
VA NORFOLK	66	51	80	45	58	-4	.2	-.6	.2	4.2	64	31.3	83	86	53	0	0	1	0
VA RICHMOND	69	41	79	39	55	-4	.2	-.4	.2	3.4	62	28.8	82	93	42	0	0	1	0
VA ROANOKE	66	42	74	34	54	-4	T	-.7	T	4.8	86	23.3	72	88	41	0	0	1	0
WA COLVILLE	58	31	62	28	44	-3	0	-.3	0	3.0	188	19.5	164	91	54	0	5	0	0
WA OMAK	65	36	70	32	51	-1	0	-.1	0	2.5	103	66.7	95	100	58	0	1	0	0
WA QUILLAYUTE	63	36	69	30	49	-2	T	-2.6	T	11.6	103	66.7	95	100	58	0	1	1	0
WA SEATTLE-TACOMA	55	42	60	38	49	-4	0	-.9	0	9.1	228	25.2	102	93	69	0	0	1	0
WA SPOKANE	58	32	64	30	45	-3	0	-.3	0	1.6	107	11.1	87	98	44	0	4	0	0
WA WALLA-WALLA	65	44	73	41	55	-1	0	-.3	0	2.4	150	16.4	136	82	42	0	0	0	0
WA YAKIMA	66	33	71	30	50	-1	0	-.1	0	1.6	229	4.9	92	81	35	0	3	0	0
WV BECKLEY	64	39	71	34	51	-2	.4	-.2	.3	6.5	130	30.8	87	91	37	0	0	2	0
WV CHARLESTON	70	40	75	34	55	-3	.3	-.2	.3	3.4	77	30.6	90	93	33	0	0	2	0
WV HUNTINGTON	70	45	75	38	57	0	.4	-.1	.2	2.7	64	32.4	100	85	32	0	0	2	0
WV PARKERSBURG	66	41	73	35	54	-2	.2	-.2	.2	4.3	105	27.9	86	96	38	0	0	2	0
WI GREEN BAY	59	41	67	33	50	0	2.5	2.1	1.4	6.6	147	21.3	91	97	58	0	0	4	2
WI LA CROSSE	62	45	69	35	54	1	1.3	.8	.6	4.1	84	32.7	126	98	62	0	0	4	1
WI MADISON	61	41	69	33	51	1	2.2	1.8	1.1	7.3	152	29.6	113	94	61	0	0	5	2
WI MILWAUKEE	58	43	61	34	50	-2	2.1	1.6	1.1	8.3	189	30.3	124	90	59	0	0	3	2
WY CASPER	49	32	59	27	41	-8	.5	.3	.2	.8	53	9.7	102	89	50	0	4	4	0
WY CHEYENNE	49	36	64	32	43	-6	.4	-.2	.1	.7	44	15.6	116	92	58	0	1	5	0
WY LANDER	48	31	59	26	40	-8	.6	.3	.5	1.2	63	10.1	85	97	57	0	4	2	1
WY SHERIDAN	54	30	63	25	42	-6	.1	-.1	.1	1.2	60	12.9	91	85	40	0	5	2	0
PR SAN JUAN	93	77	97	76	85	4	.2	-1.1	.2	3.7	39	43.3	93	92	57	6	0	2	0

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

HEATING DEGREE DAYS (BASE 65°) FOR WEEK ENDING OCT. 18, 1981.

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

Table with columns for STATES AND STATIONS, WEEKLY TOTAL DEPARTURE, SEASONAL ACCUMULATION, and DEPARTURE FROM 1980-81. Rows list various states and cities such as ALA., ARIZ., CALIF., COLO., CONN., DEL., D.C., FLA., GA., IDAHO, ILL., IND., IOWA, KANS., KY., LA., MAINE, MD., MASS., MICH., MINN., MISS., MO., MONT., NEBR., NEV., N.H., N.J., N.MEX., N.Y., N.C., N.DAK., OHIO, OKLA., OREG., PA., R.I., S.C., S.DAK., TENN., TEXAS., UTAH, VA., WASH., W.VA., WIS., and WYO.



National Agricultural Summary

October 12-18, 1981

HIGHLIGHTS: Wet weather and muddy fields delayed harvesting and fall seeding of small grains except in the Southeast and parts of the south central region where dry conditions persisted. Warm, dry weather is needed in many areas before machinery can be moved onto fields. Farmers had 2 to 5 days suitable for fieldwork in the west north central region, 4 to 6 days in the east north central region, and 4 to 7 days elsewhere. Soil moisture supplies ranged from adequate to surplus in parts of New England, Wisconsin, Minnesota, and Kansas; very short to short in much of the Southeast and south central region; and short to adequate in nearly all other areas. Corn and soybean harvests continued to lag behind normal, and in some areas fell further behind schedule due to heavy rains. In the 17 major producing States, 31% of the corn acreage had been harvested, compared to 61% a year ago and the 42% average. Soybean harvest advanced to 42% in the 18 major producing States, 20 points behind last year and 10 points behind normal. Winter wheat seeding reached 79% in the 15 major States; plants had emerged on 61% of the acreage. Stands were generally in good condition. In the 14 major States, cotton was 30% harvested. The grain sorghum harvest (42% completed) was slowed by wet, cool weather. Rice harvest neared completion in all major States except California, where progress reached the 50% mark. Fall apple and northern vegetable harvests neared completion, while southern vegetable harvests increased in volume. Summer pastures declined seasonally. Some supplemental feeding was necessary.

CORN: Corn was in good to excellent condition in most of the Corn Belt, poor to fair in parts of the dry Southeast, and fair to mostly good in other producing regions. Cool, damp weather delayed harvesting and slowed drying in most major producing areas. In the 17 major States, 97% of the crop was mature and 31% of the acreage had been harvested compared to 61% a year ago and the average of 42%. Harvest neared completion in Georgia, but was only 8% finished in Wisconsin. Warm, dry weather is needed before machinery can enter fields in many areas.

SOYBEANS: Soybeans were in good to excellent condition in parts of the Corn Belt and fair to mostly good in all other areas except parts of the Southeast where conditions were poor to fair due to dry weather. Little harvesting progress was made in most States due to wet field conditions. However, farmers in Indiana and Ohio were able to harvest 25% of their acreage during the week. In the 18 major producing States, 42% of the acreage had been harvested, 20 points behind last year and 10 points behind normal. Progress lagged normal in nearly all States. Minnesota farmers fell 39 percentage points behind average; Kentucky -- 23 points, Louisiana -- 18 points, and Indiana and Ohio -- 15 points.

FRUITS AND NUTS: The fall apple harvest neared completion, but growers continued picking late varieties. Pecan harvests started to gain momentum. Florida's citrus trees showed signs of stress from hot, dry weather. Some leaf curl and minor wilt were evident. Irrigation remained active. Early harvesting continued

active. Arizona's citrus groves were in good condition; trees were showing new growth. Lemon picking increased in volume and grapefruit harvests started in a few areas. California's lemon harvest increased in Central and Desert areas. Harvesting of late variety walnuts continued, but the pistachio and almond harvests neared completion. The Texas citrus harvest continued. Fruit showed good size and quality.

VEGETABLES: Harvests in northern areas tapered off as cooler weather moved in with killing frosts. Only a few hardy vegetables were available for harvest. Florida growers sprayed and irrigated crops. Harvesting was light, but increasing in volume. California growers picked a wide variety of vegetables. Growers in southern Texas harvested early crops and continued to plant other vegetables.

PASTURES AND LIVESTOCK: Summer pastures declined seasonally in most areas, but dry weather continued to slow growth in the south Atlantic and south central regions. Producers fed hay and forage to herds, although many farmers had animals on fall pastures and crop stubble.

SMALL GRAINS: Winter wheat seeding advanced to 79% in the 15 major producing States, 1 point behind last year's progress; plants had emerged on 61% of the acreage, 1 point ahead of a year earlier. Stands were in good to excellent condition in Kansas and fair to mostly good in other States. Moisture has been adequate for good germination and growth except in the Southeast where more rain is needed. Heavy rains damaged some fields in Oklahoma and parts of Texas.

COTTON: Cotton was in fair to good condition, except in Georgia where conditions remained poor to fair. In the 14 major producing States, 82% of the acreage was showing open bolls, compared to 85% last year. Harvesting was 30% complete, 6 points less than a year ago. Heavy rains damaged low-lying fields on the Low Plains of Texas. Cool, damp weather on the Texas High Plains delayed maturity.

SORGHUM: Grain sorghum harvest reached 42% complete, lagging last year's 65% and the 63% average. Harvesting made little progress as rains and cool weather delayed maturity and interrupted harvest.

OTHER CROPS: Rice was 88% harvested in the five major producing States, 3 points ahead of last year. Harvesting neared completion in all States, except California where progress reached the half-way mark, 10 points ahead of last year. Harvest was delayed in parts of California due to wet fields.

The Maine potato harvest was 95% completed. Rains halted the Idaho harvest which stood at 68% complete, compared to the average of 86%.

Tobacco growers continued to strip this year's crop. Fumigation of seed beds was delayed in Maryland due to dryness.

Peanut harvest neared completion in Florida and ranged from 36% finished in Texas to 90% in Alabama. Harvesting in Texas was interrupted by rain.

CROP PROGRESS FOR WEEK ENDING OCT. 18, 1981
NA - NOT AVAILABLE

CORN % MATURE				CORN % HARVESTED				SOYBEAN % DROPPING LEAVES				SOYBEAN % HARVESTED			
	1981	1980	AVG.		1981	1980	AVG.		1981	1980	AVG.		1981	1980	AVG.
COLO	91	95	96	COLO	22	49	45	ALA	89	79	NA	ALA	31	33	22
GA	100	100	NA	GA	98	95	89	ARK	73	70	NA	ARK	15	14	17
ILL	100	100	100	ILL	34	75	46	GA	80	61	NA	GA	17	13	10
IND	90	100	100	IND	20	55	30	ILL	100	100	100	ILL	72	92	81
IOWA	100	100	100	IOWA	35	62	47	IND	98	100	100	IND	45	85	60
KANS	98	99	98	KANS	50	70	65	IOWA	100	100	100	IOWA	70	91	80
KY	98	100	98	KY	66	77	57	KANS	90	90	NA	KANS	40	50	45
MICH	95	95	100	MICH	10	20	23	KY	74	99	96	KY	14	52	37
MINN	99	99	99	MINN	17	38	45	LA	76	83	81	LA	35	44	48
MO	97	100	98	MO	55	84	54	MICH	100	100	100	MICH	25	30	31
NEBR	94	100	98	NEBR	20	75	35	MINN	99	99	99	MINN	41	86	80
N C	100	100	NA	N C	89	88	84	MISS	93	92	95	MISS	25	33	33
OHIO	90	100	100	OHIO	20	55	30	MO	76	91	87	MO	38	65	46
PA	95	95	83	PA	37	40	20	NEBR	100	100	100	NEBR	55	85	65
S DAK	93	100	100	S DAK	34	60	45	N C	55	40	NA	N C	8	8	7
VA	99	99	99	VA	69	67	59	OHIO	97	100	100	OHIO	45	85	60
WIS	99	100	100	WIS	8	22	19	S C	70	57	60	S C	7	6	5
17 STATES	97	99	NA	17 STATES	31	61	42	TENN	78	92	84	TENN	12	25	24

EXCL. STATES WITH NA 97 99 99 THESE 17 STATES PRODUCED 93% OF THE 1980 CORN CROP.

EXCL. STATES WITH NA 92 95 95 THESE 18 STATES PRODUCED 95% OF THE 1980 SOYBEAN CROP.

COTTON % BOLLS OPENING				COTTON % HARVESTED				WINTER WHEAT % PLANTED				WINTER WHEAT % EMERGED			
	1981	1980	AVG.		1981	1980	AVG.		1981	1980	AVG.		1981	1980	AVG.
ALA	97	95	71	ALA	65	54	27	CALIF	8	5	NA	CALIF	0	0	NA
ARIZ	100	100	100	ARIZ	25	15	16	COLO	97	99	99	COLO	86	85	85
ARK	99	100	87	ARK	45	64	42	IDAHO	75	80	86	IDAHO	40	52	54
CALIF	100	95	NA	CALIF	15	4	NA	ILL	60	83	70	ILL	35	38	NA
GA	92	99	NA	GA	60	75	36	IND	55	85	65	IND	20	45	30
LA	100	100	93	LA	60	72	51	KANS	90	90	90	KANS	80	75	NA
MISS	100	100	99	MISS	75	60	50	MO	49	64	50	MO	30	45	35
MO	100	100	100	MO	23	72	49	MONT	95	100	100	MONT	75	80	NA
N MEX	100	70	NA	N MEX	8	7	8	NEBR	100	100	100	NEBR	99	91	NA
N C	100	98	NA	N C	42	63	30	OHIO	70	85	75	OHIO	30	40	35
OKLA	95	85	75	OKLA	10	10	5	OKLA	80	65	80	OKLA	55	30	45
S C	96	100	100	S C	53	64	48	OREG	75	69	NA	OREG	39	53	NA
TENN	92	100	74	TENN	37	74	37	S DAK	100	100	100	S DAK	93	99	100
TEX	68	76	NA	TEX	22	32	27	TEX	67	67	75	TEX	44	54	NA
14 STATES	82	85	NA	14 STATES	30	36	NA	WASH	88	86	84	WASH	69	68	NA

EXCL. STATES WITH NA 98 97 90 THESE 14 STATES PRODUCED 99% OF THE 1980 COTTON CROP.

EXCL. STATES WITH NA 81 82 83 THESE 15 STATES PRODUCED 88% OF THE 1980 WINTER WHEAT CROP.

SORGHUM % MATURE				SORGHUM % HARVESTED				RICE % HARVESTED			
	1981	1980	AVG.		1981	1980	AVG.		1981	1980	AVG.
COLO	83	92	93	COLO	26	29	33	ARK	93	90	88
KANS	75	80	90	KANS	20	40	50	CALIF	50	40	NA
MO	81	93	98	MO	44	70	58	LA	100	98	98
NEBR	90	100	99	NEBR	15	85	60	MISS	90	91	88
OKLA	90	85	90	OKLA	30	40	40	TEX	100	100	100
S DAK	96	93	93	S DAK	45	57	56	5 STATES	88	85	NA
TEX	90	92	NA	TEX	79	84	83	EXCL. STATES WITH NA	96	94	93
7 STATES	84	89	NA	7 STATES	42	65	63	THESE 5 STATES PRODUCED 98% OF THE 1980 RICE CROP.			
EXCL. STATES WITH NA	82	88	93	THESE 7 STATES PRODUCED 92% OF THE 1980 SORGHUM 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 near normal. Rain scattered, up to 1.00 in.

Fieldwork: 5.3 days. Activities: Row crop and vegetable harvest; land preparation, small grain seeding. Soybeans: Dropping leaves 89%, 79% 1980; mature 68%, 59% 1980, 61% average; harvested 31%, 33% 1980, 22% average. Cotton: Bolls open 97%, 95% 1980, 71% average; harvested 65%, 54% 1980, 27% average. Peanuts: Dug 94%, 84% 1980, 87% average, combined 90%, 79% 1980, 87% average. Wheat seeded 29%, 37% 1980, 45% average. Sorghum harvested 67%, 66% 1980. Conditions: Soybeans fair to good; pastures poor to fair.

ARIZONA: Colder air past week, temperatures mostly 3 to 13° below normal. Scattered showers northeast, east central areas. Precipitation mostly less than 0.10 in. Drier, much warmer air during week end.

Cotton maturing rapid rate, harvest western areas full volume, 25% crop harvested week's end compared 15% last year. Sorghum harvest seasonal progress, virtually all plantings headed. Alfalfa haying continued. Newly planted alfalfa emerging, establishing stands. Harvest corn for grain, mostly Cochise County, rapidly winding down, well above average yields reported. Sugarbeets very good progress, weeding, thinning active. Pesticides applied as needed. Land preparation, planting small grains active. Harvest lettuce continued. Harvest mixed vegetables, mostly green onions, greens, remained active. Other plantings mixed vegetables, mainly cabbage, cauliflower, broccoli good stand, growing well. Cantaloup, honeydew harvest fairly steady. Lemon picking increasing both Yuma, Salt River Valley. Limited grapefruit harvest active. Groves putting on new growth, appear mostly good condition. Ranges fair to good. Cattle good, fall roundup active and sheep good to excellent. Water supplies and soil moisture adequate.

ARKANSAS: Warm week, rain latter half. Highest temperature 96°, lowest 40°. All departures from normal +6 to -2°. Most rainfall 5.87 in., least 0.26 in.

Overcast and rain delayed harvesting activity. Four days fieldwork. Rice harvested 93%, 90% 1980, 88% average. Soybeans yellowing 91%, 84% 1980; shedding leaves 73%, 70% 1980; mature 46%, 48% 1980; harvested 15%, 14% 1980, 17% average. Cotton open bolls 99%, 100% 1980, 87% average; harvested 45%, 64% 1980, 42% average. Corn harvested 98%, 100% 1980, 78% average. Sorghum harvested 95%, 93% 1980, 90% average. Wheat planted 21%, 33% 1980, 34% average. Soil moisture adequate, except dry east central and northeast. Pastures short, improving. Livestock good condition.

CALIFORNIA: A mass of unseasonably cold Arctic air plunged south covering the entire State. Mean temperatures for entire districts ranged from 5 to 10° below normal and the Central Valley was 8° below normal. Precipitation, mostly over the northern half of the State, occurred over the weekend and tapered off monthly. Largest totals, as much as 2.00 in., were in the Sierra Nevada, and several inches of snow were measured at high elevations. By the end of the week, a temperature recovery had begun.

Rice harvest active with 50% complete, 40% last year. Harvesting delayed in several areas due to wet fields. Cotton bolls 100% open and harvest progressing, 15% complete, 4% for pre-

vious year. Winter wheat planting begun; 8% planted, 5% one year earlier. Dry bean cutting and windrowing continues. Alfalfa for hay and silage continues with some damage in areas by rain. Cutting corn for grain and silage active. Milo maturing with harvest continuing. Sugarbeet harvest continues with some fields still being irrigated. Lemon harvest increasing Central and Desert districts. Harvest late varieties of walnuts continued. Pistachio and almond harvests nearly completed. Table grape harvest include Calmeria, Almeria, and Emperor varieties. Olive harvest gained momentum Sacramento Valley. Free-stone peach varieties being picked included Autumn Gem, Halloween, and Pageant. Artichoke harvest continues Central Coast area. Quality variable. Broccoli, cauliflower harvest heavy along Central Coast. Quality variable. Bell pepper harvest active San Joaquin Valley, Central, and South Coast areas. Desert cantaloup harvest nearing completion. Carrot harvest active Salinas and San Joaquin Valleys. Celery volume moderate Salinas-Watsonville, Santa Maria-Oceano areas. Sweet corn harvest underway San Joaquin Valley, Desert area. Lettuce harvest active along Central Coast, beginning in San Joaquin Valley. Fall potato harvest increasing. Rains hampering digging activities. Sweetpotato harvest San Joaquin Valley increasing. Pumpkin harvest active. Processing tomato harvest declining. Market tomato harvest steady, San Joaquin, Central, and South Coast areas. Dehydrating onion harvest delayed in areas due to rain. Range improving. Rain needed throughout State. Supplemental feeding continues.

COLORADO: East warm and dry early in week but cool, cloudy and scattered light rains 13th through 17th. West cool entire week with 1.00 to 2.00 in. of precipitation and up to two feet of snow some mountain areas. Temperatures few degrees below normal mountains and west. Three to 5° above normal southeast, and normal northeast.

Winter wheat seeded 97%, 99% 1980, 99% average; emerged 86%, 85% 1980, 85% average. Corn mature 91%, 95% 1980, 96% average; grain harvest 22%, 49% 1980, 45% average; silage harvest 99%, 99% 1980, 99% average. Sorghum ripe 83%, 92% 1980, 93% average; grain harvest 26%, 29% 1980, 33% average; forage harvest 95%, 86% 1980, 89% average. Dry beans cut 99%, 96% 1980, 97% average; threshed 95%, 90% 1980, 92% average. Fall potato harvest 86%, 86% 1980, 94% average. Sugarbeets harvest 18%, 32% 1980, 36% average. Alfalfa hay 4th cutting 41%, 60% 1980. Fieldwork: 5.5 days suitable. Ranges and pastures good condition. Livestock good condition.

FLORIDA: Generally mild and dry. A ridge of high pressure dominated with brisk, northeasterly winds. Scattered showers confined primarily into the moist air flow near East Coast with a few spotty showers inland, south, central areas. Temperatures averaged near seasonal norms, slightly below, north, along East Coast, slightly above elsewhere.

Soil moisture mostly short, except adequate southeast. Peanut harvest nearing completion; soybean harvest and cotton picking increasing. Hay cutting continues. Sugarcane mostly excellent condition. Cutting seed cane continues. Planting small grains and winter forage delayed by dry soils. Pastures declined seasonally, varying from very poor, upper central Panhandle, generally poor to fair elsewhere in Panhandle, northern Peninsula,

mostly good to excellent southern Peninsula. Cattle, calves generally fair to good condition. Citrus trees showing stress from hot, dry weather, some leaf curl and minor wilt. Irrigation being applied. Good natural color on early fruit. Early harvest continues active. Warm days, cool nights prevailed in vegetable areas. Temperatures mostly in 80's during day, 60's at night. Winds brisk to gusty. Rainfall mostly limited to moderate to heavy showers along lower East Coast. Irrigation active drier areas. Spray programs steady. Harvest light but increasing snap beans, sweet corn, cucumbers, eggplant, lettuce, peppers, radishes, squash and tomatoes. Pole bean harvest active Gadsden County. Strawberry transplanting should continue active into early November.

GEORGIA: Mild to cool through the 16th. Temperatures 3 to 4° below normal. Averages mid 50's mountains to near 70 south. Rain on weekend of 10th. Amounts 0.25 in. southwest to nearly 3.00 in. southeast. Warm 17th then cooler with scattered showers night and 18th. Highs mostly 80's 17th. Rainfall averaged 0.25 in. or less.

Soil moisture short to mostly very short. A few scattered counties adequate. Six days suitable for fieldwork. Main activities harvesting and small grain seeding. Corn poor to fair, 98% harvested, last year 95%, average 89%. Soybeans poor to fair, 17% gathered, last year 13%, average 10%. Peanuts mostly fair to good, 93% dug and 86% threshed, last year 92% and 86%, average 93% and 86%. Cotton poor to fair, 92% open, last year 99%, 60% picked, last year 75%, average 36%. Apples 95% picked, last year 97%. Pecans fair to good, 6% harvested, last year 4%, average 5%. Moisture needed for small grain planting. Wheat 14% planted, last year 21%, average 23%. Rye 34% planted, last year 36%, average 33%. Pastures and hay crops poor to fair. Overseeding permanent pastures active. Cattle and hogs fair to good.

HAWAII: Weather favorable. Rains some areas beneficial. However, certain districts still dry making irrigation necessary to maintain fair to good crop progress.

Vegetables: Production improving for Chinese and head cabbage. Mustard cabbage continues heavy. Others light to moderate. Bananas: Seasonal flush keeping supplies adequate. Papayas: Some shippers have closed down or reduced operations due to marketing problems in California and Japan. Pineapples: Light harvest. Sugar: Few sugar mills closed for annual repairs. Others to follow. Pastures: Leeward pastures dry. More rains needed.

IDAHO: Temperatures ranged 3 to 9° below normal. High of 70° in Emmett, low of 12° in Fairfield. All areas throughout the State, with the exception of the extreme north, reported precipitation. Amounts ranged from 0.06 to 1.62 in. Snow was reported in the higher elevations.

Rains halted potato harvest in several localities and harvest was one week behind last year with 68% dug. This time last year 86% were dug and 82% dug was the average. Sugarbeet harvest: 21%, 28%, 44% - almost a week behind. Onions: 97%, 95%, 97%. Dry beans: 97%, 96%, 92%. Winter wheat planted: 75%, 80%, 86% - six days behind. Winter wheat emerged: 40%, 52%, 54% - nine days behind.

ILLINOIS: Temperatures 1 to 3° below normal. Precipitation general, ranged 1.00 to 3.00 in.

Corn 34% harvested, 75% 1980, 46% average. Soybeans 72% combined, 92% 1980, 81% average. Winter wheat 60% seeded, 83% 1980, and 70% average; 35% emerged, 38% 1980. Corn and soybean acreage 15% tilled, 16% 1980, and 18% average. Pastures 12% excellent, 65% good, 22% fair, 1%

poor. Soil moisture 12% short, 67% adequate, 21% surplus. Fieldwork: 4.3 days suitable.

INDIANA: Cloudy, blustery week. Temperatures ranged from 32 to 77° and a few degrees below normal during day and above normal during night. Sunshine only 40% of possible. Rainfall 0.60 in. southeast to 0.80 in. northwest. High winds on weekend.

Fieldwork averaged 6 days. Topsoil and subsoil moisture adequate. Corn 20% harvested, 1980 55%, average 30%. Corn 26% moisture, corn 90% mature, 1980 100%, average 100%. Soybeans 45% combined, 1980 85%, average 60%. Soybeans 80% mature, 1980 100%, average 100%. Soybeans 98% dropping leaves, 1980 100%, average 100%. Winter wheat 55% seeded, 1980 85%, average 65%. Wheat 20% emerged, 1980 45%, average 30%. Wheat stands fair to good. Silos 85% filled, 1980 100%, average 100%.

IOWA: A cloudy, wet week with moderate to heavy rains over all but some drier west central and south central counties. Temperatures averaged near normal but dropped sharply on the weekend to produce the season's first snow flurries in some north and central localities the 18th and State-wide freeze the morning of the 19th.

Topsoil moisture: 6% short, 59% adequate, 35% surplus. Subsoil moisture: 23% short, 64% adequate, 13% surplus. Corn acreage harvested: 35%, 1980 62%, normal 47%. Soybean acreage harvested: 70%, 1980 91%, normal 80%. Fall plowing completed: 12%, 1980 19%, normal 14%. Fertilizer application complete: 10%, 1980 21%. Fieldwork: 3.9 days suitable. Crop conditions: Soybeans, corn mostly good to excellent. Livestock reported to be in mostly good to excellent condition.

KANSAS: Heavy rains southeast with 3.00 to 6.00 in. common, as much as 7.03 in. Fort Scott; 1.00 to 2.00 in. accumulations south central through northeast; less than 0.10 in. northwest and extreme west. Temperatures averaged 53° northwest and north central and 58 to 60° east and south. Near normal south central and 1 to 3° above normal elsewhere.

Wheat 90% planted, 90% last year and average; 80% emerged, 75% last year. Corn 98% mature, 99% last year, 98% average; 50% harvested, 70% last year, 65% average. Soybeans 90% shedding leaves, 90% last year; 40% harvested, 50% last year, 45% average. Sorghum 75% mature, 80% last year, 90% average; 20% harvested, 40% last year, 50% average. Wheat growth good to excellent. Pasture and range good to excellent except west central where fair. Soil moisture adequate to surplus except west central and southwest where short. Little cattle movement off pasture, adequate to surplus feed supplies.

KENTUCKY: Temperatures averaged a few degrees above normal. Rainfall, mostly over the weekend, was variable but averaged from 0.50 to 1.50 in.

Ideal harvesting weather, 5.8 days available for fieldwork. Soil moisture 94% short, 6% adequate. Burley tobacco 8% stripped. Quality good with variable yields. Corn harvest 66% complete, last year 77%, average 57%. Harvesting in west and west central more than 75% complete. Early corn yielding good to excellent. Soybean harvest 14% complete, 52% last year, 37% average. Shedding leaves and beyond 74%, 99% last year, 86% average. Yields of early beans reported good. Wheat 40% seeded, behind last year and average. Seeding delayed by late harvesting and short soil moisture. Pastures fair to good.

LOUISIANA: Rainfall between 0.25 and 0.50 in. Temperatures 5 to 8° above normal.

Soil moisture short to adequate. Days suitable: 4.5. Rice harvested 100%, 98% 1980, and

average. Cotton open bolls 100%, 100% 1980, 93% average; harvested 60%, 72% 1980, 51% average; condition fair. Soybeans leaves turning 92%, 93% 1980, 90% average; leaves shedding 76%, 83% 1980, 81% average; harvested 35%, 44% 1980, 48% average; condition fair. Sorghums harvested 99%, 94% 1980, 92% average. Sugarcane planted 99%, 92% 1980, 88% average; harvested 14%, 9% 1980, 6% average; condition good. Sweetpotatoes harvested 95%, 81% 1980, 80% average. Vegetables rated fair. Pecans rated fair to good; harvested 4%, 6% 1980. Wheat seeded 12%, 32% 1980, 46% average; condition fair. Pastures rated fair, livestock fair to good. Hay final cutting 95%, 92% 1980.

MARYLAND AND DELAWARE: **Maryland:** Excellent weather for harvest. Corn 75% picked, equals last year. All corn mature. Soybeans 25% harvested, 20% in 1980; 95% turned, 65% shed leaves. Last year: 95% turned, 70% shed. Small grains seeded: Barley 75%; wheat 40%; rye 60%; oats 40%. Last year's percents: Barley 80%; wheat 55%; rye 70%; oats 75%. Tobacco stripping underway, bed fumigation held up by dryness.

Delaware: Corn harvested 85%, last year 85%. Soybean harvest 20%, last year 25%. Acreage turned, 95%, shed leaves, 90%. Small grains seeded: Barley 85%; wheat 35%; rye 45%. Last year equaled 80%, 75%, 70% respectively.

Seven days suitable for fieldwork. No rain in both States. Soil moisture supplies short all over. Temperatures 6° below normal. Highs in mid 60's. Lows upper 30's to low 40's.

MICHIGAN: Temperatures averaged 1 to 4° below normal. Precipitation was light to moderate. Heaviest amounts of rain fell over the upper Peninsula and the northwest portion of the lower Peninsula.

Harvest active during the week, many fields still too wet for field activity after midweek rains. The 4 days suitable for fieldwork permitted producers to resume harvest. Dry bean harvest advanced to 80%, 90% in 1980, and 83% average. Winter wheat planting progressed to 60%, behind last years 80% and 81% average. Corn for grain harvested 10%, 20% in 1980 and 23% average. Corn silage 85%, 90% in 1980 and 89% average. Soybean harvest 25% complete, behind 30% for 1980 and average. Sugarbeets advanced to 20%, 20% in 1980 and 30% average. Potatoes 85% harvested, equal to last year and average. Apple harvest ranged from 70 to 85% complete. Grape harvest nearing completion. Vegetable harvest hampered by wet fields.

MINNESOTA: Temperatures averaged near normal. Extremes: 70° at Browns Valley, 22° at Hibbing. Precipitation averaged 1.00 to 2.00 in. above normal central, east central, and southwest, and normal to 1.00 in. above normal elsewhere. Precipitation totals 1.50 to 2.50 in. central, east central and southwest and 0.75 in. to 1.50 in. elsewhere. Snowfall trace northern half. Snow-depth trace, extreme north central and northeast.

Heavy rain severely hampered harvest. Field corn, soybeans, and sunflowers now 2 weeks behind normal while sugarbeets 1 week behind. Fields very wet with standing water and too soft for machinery. At least one week dry, sunny weather needed for full scale harvesting. Topsoil moisture rated 4% short, 52% adequate, and 44% surplus. Harvested: Field corn 17%, 1980 38%, normal 45%; soybeans 41%, 1980 86%, normal 80%; sunflowers 41%, 1980 73%, normal 73%; sugarbeets 46%, 1980 74%, normal 80%; potatoes 93%, 1980 94%, normal 93%. Moisture content: Field corn 28%, 1980 23%, normal 23%; soybeans 14%, 1980 11%, normal 12%.

MISSISSIPPI: Above normal temperatures with

generally dry weather. Cold front on 18th brought much cooler weather and rainfall. Temperature extremes: 35 and 89°. Greatest 24-hour rainfall 3.32 in.

Soil moisture short to adequate. Days suitable for fieldwork: 4.4. Cotton 75% harvested, 60% last year and 50% average; condition fair to good. Soybeans 93% shedding, 92% last year, 95% average; 25% harvested, 33% last year and average; condition fair. Rice 90% harvested, 91% last year and 88% average. Corn 93% harvested; peanuts 88%; sorghum 92%; sorghum silage 97%; hay 97%; sweetpotatoes 70%; and pecans 7%. Winter wheat 25% planted, 26% last year and 46% average. Pasture condition fair to poor.

MISSOURI: Temperatures averaged from 1 to 6° above normal. Precipitation fell over the State in varying amounts ranging from 0.50 to 5.88 in.

Fieldwork: 2.0 days suitable. Corn 55% harvested, last year 84%, normal 54%. Grain sorghum 81% mature, last year 93%, normal 98%. Grain sorghum 44% harvested, last year 70%, normal 58%. Soybeans 76% mature, last year 91%, normal 87%. Soybeans 38% harvested, last year 65%, normal 46%. Winter wheat 49% seeded, last year 64%, normal 50%. Fall plowing 25% completed, last year 30%, normal 20%. Cotton 23% harvested, last year 72%, normal 49%. Pastures in fair to good condition. Topsoil moisture mostly adequate.

MONTANA: A major storm early in week produced moderate to heavy precipitation. North central and northeast areas received brunt of storm. Some areas received over 2.00 in. precipitation and up to 10.00 in. snow in lower elevations. Temperatures were very cool first of week with warming over all State by end of week. Temperatures averaged 3° below normal in northeast to as much as 10° below in southwest. Highest 76° at Broadus, lowest 13° at Wisdom.

Topsoil now adequate to slightly short. Subsoil short eastern third, short to adequate elsewhere. Days suitable for fieldwork: 3. Percent harvested compared with last year and normal: Potatoes 80, 65, 85; sugarbeets 45, 65, 75. Winter wheat planted 95, 100, 100. Winter wheat emerged 75%. Condition fair to good. Cattle and sheep moved off of summer ranges 70%. Stock water supplies short eastern third of State, adequate elsewhere.

NEBRASKA: Moist, cool weather severely limited fall crop harvesting activities. Corn harvest 20%, 75% last year and 35% normal; mature 94%, 100% last year and 98% normal. Soybeans harvested 55%, 85% last year and 65% normal. Sorghum 90% ripe, 100% last year and 99% normal; harvested 15%, 85% previous year and 60% normal. Wheat good; emerged 99%, 91% last year. Pasture and range feed supplies mostly adequate. Topsoil moisture adequate. Subsoil moisture short to mostly adequate. Days suitable: 3.4.

NEVADA: Winter and Indian summer best describe weather this past week. Temperatures fell some 28° on the average below seasonal normals. The first hard frost occurred under clearing skies. Overnight lows in northern and central near 20°. Precipitation was abundant across all but the extreme south. Snow fell in valley down to 4000 ft. Temperatures were returning to normal over west by the weekend.

Potato digging hampered by wet condition. Snow at higher elevation caused removal of livestock to lower ranges. Supplemental feeding increased.

NEW ENGLAND: Temperatures: North average 2° subnormal; south averaged 7° subnormal. Precipitation: In central and northern New England

mostly on 16th, 17th and 18th. Many readings over 0.50 in.

Fieldwork: 5.9 days favorable. Soil moisture: North, mostly surplus; south, adequate. Hay harvested: Third crop; 90%. Maine potatoes: 95% harvested, good quality, variable yields. Apples: Harvest diminishing, fair quality. Vegetables: Harvesting fall species, good quality. Cranberries: 75% harvested, frost protection, excellent quality, fair to good prospects. Good quality: Corn, potatoes. Grazing: Continued adequate where available.

NEW JERSEY: Temperatures averaged well below normal. Extremes: 23° at Newton on 14th, and 74° at Cape May Court House and Pomona on 16th. Rainfall averaged 0.60 in. north, 0.58 in. central and 0.45 in. south. Heaviest 24-hour total was 0.73 in. at Canoe Brook on 18th. Four inch soil temperature today averaged: 49 north, 54 central and 56 south.

Fieldwork: 6.6 days suitable. Week-end rain beneficial. Harvest of hardy vegetables continues. Harvest of sweetpotatoes, apples and cranberries progressing on schedule. Harvest of corn for grain and soybeans continues as conditions permit. Plantings of wheat, rye and cover crops continues. Early grain and cover crop plantings growing well.

NEW MEXICO: Average temperatures were a few degrees above normal with rainfall limited mainly to the higher elevations.

Soil moisture remains in adequate supply through most areas. Some light to killing freezes occurring in the more northern areas. The main farm activities included harvest of alfalfa hay, corn, sorghum, chile, and cotton. Cotton remains in good condition with expectations for an excellent crop. Light freezes beginning to occur in the more northern cotton producing areas. Alfalfa hay harvest beginning to wind down in the northern producing areas as colder weather continues to set in. Winter wheat and barley in good condition. Corn silage harvest mostly complete with grain harvest continuing. Grain sorghum harvest continuing with expectations for a good crop. Red chile and fall lettuce harvest continuing in the Mesilla Valley. Pecans in good condition as hulls continue to split and open. Ranges remain in an overall good condition with grass setting well for winter. Livestock in good condition as limited shipments continuing.

NEW YORK: Rainfall below normal. Temperatures below normal with widespread hard frost.

Good drying conditions and fieldwork progress. Corn silage 61% harvested, 85% 1980, 82% average. Grain corn 15% harvested, 27% 1980, 22% average. Third cutting alfalfa 85% done, 90% 1980, 93% average. Dry beans 50% harvested. Late winter wheat planting underway. Harvest of vegetable crops nearing completion. Apple harvesting nearing completion. Western grape harvest 90% complete.

NORTH CAROLINA: Temperatures near normal in the southwest to 5° below normal elsewhere. Precipitation 0 in many areas to 0.51 at Robbinsville.

Fieldwork: 6.4 days suitable. Soil moisture 53% very short, 47% short. Conditions: Pasture mostly fair, cotton and peanuts mostly good; soybeans and sweetpotatoes fair to good, apples mostly good; sorghum grain fair to mostly good. Plantings: Wheat 22%, 1980 28%, 26% average; oats 44%, 1980 39%; barley 39%, 1980 43%; rye 47%, 1980 31%. Harvest: Cotton 42%, 1980 63%, 30% average; sweetpotatoes 75%, 1980 67%, 71% average; sorghum grain 70%, 1980 62%, average 65%; soybeans 8%, 1980 3%, 7% average; corn for grain 89%, 1980 88%, 84% average; peanuts dry 90%, 1980 77%, 69% average; peanuts threshed 79%, 1980 61%, 55% aver-

age; apples 85%, 1980 72%, 81% average. Phenological stages: Cotton open bolls 100%, 1980 98%; soybeans shedding leaves 55%, 1980 40%. Major farm activities: Harvesting soybeans, planting small grains, and combining corn.

NORTH DAKOTA: Week was cool and wet. Eastern portion received well above normal amounts of moisture including some light snow. Western third received slightly above normal amounts of rain. Greatest amount of precipitation in east with several stations over 1.00 in. Temperatures below normal. Southwest 4° below normal. Extremes from 70° northwest and northeast to 22° west.

Cool, damp weather continued to interfere with row crop harvest especially in east. Sunflower harvest now about 9 days behind average pace but only 3 days behind last year when late season damp weather also hindered field drying and harvest. Corn, soybean, and sugarbeet harvest also all well behind normal pace. Need about 2 weeks of good drying weather to complete harvest of all crops except sunflower and corn which would likely take longer even with good weather. Some areas still looking for first killing frost. Better progress shown in the west. An average of 5.2 days suitable for fieldwork. As of 18th, 34% of State short or very short of topsoil moisture. Last year 14%; average 49%. Short area is primarily western third of State. Percent harvest with last year and average: Sunflower 31, 38, 54; flax 90, 72, 88; potatoes 90, 94, 97; dry beans 91, 91, 97; corn grain 32, 45, 58; sugarbeets 53, 77, 82; soybeans 50, 83, 84.

OHIO: Cool, average highs in low to mid 60's, lows averaged mid 30's to mid 40's. Overall average 1 to 4° below normal. Precipitation 0.10 to 0.30 in. below normal. Weekend showers produced up to 1.00 in. Most totals 0.25 to 0.50 in.

Field dry down of corn slow. Grain quality fair to good. Moisture in corn ranged from 20 to 35%. Moisture content of soybeans 10 to 20%. Soybean yield varying widely. Many fields yielding very small beans. Wheat being sown as quickly as soybeans can be combined. Moisture needed for emerging wheat. Soybeans mature 85%, 100% 1980, 99% average. Soybeans harvested 45%, 85% 1980, 60% average. Corn mature 90%, 100% 1980, 100% average. Corn harvested 20%, 55% 1980, 30% average. Corn silage harvested 85%, 99% 1980, 95% average. Wheat planted 70%, 85% 1980, 75% average. Wheat emerged 30%, 40% 1980, 35% average. Days suitable 6.5. Pasture fair to good. Soil moisture 40% short, 60% adequate.

OKLAHOMA: The week was wet with mild to warm temperatures in all sections until the weekend when the first "cool" snap of fall moved into the State. Temperatures averaged near normal to several degrees above normal and rainfall ranged from an average of 1.25 in. in the Panhandle to near 7.00 in. in the south central division.

Torrential rains south central, general rains elsewhere but Panhandle. Low lying alfalfa, sorghum, peanuts, soybean and wheat fields damaged - extent unknown. Some livestock deaths reported. Wheat planted 80%, 65% 1980, 80% average. Wheat up to stand 55%, 30% 1980, 45% average. Sorghum mature 90%, 85% 1980, 90% average. Sorghum harvested 30%, 40% 1980, 40% average. Cotton open bolls 95%, 85% 1980, 75% average. Cotton harvested 10%, 10% 1980, 5% average. Days suitable for fieldwork: 1.1.

OREGON: Temperatures averaged below normal. Light frost recorded in scattered areas of Willamette Valley with freezing temperatures recorded in many eastern points. Record low of 23° recorded at Klamath Falls on 13th. Precipitation was scattered but mostly light.

Good week for fieldwork. Seeding of winter wheat 75% completed, compared to 69% a year ago. About 39% of winter wheat emerged compared to 53% by this time last year. A considerable amount of reseeded done in north central due to crusting. Topsoil moisture adequate in all areas. Filbert harvest underway again after delay from rains. Upper Hood River Anjou pear harvest mostly completed. Newtown and Red Delicious apple harvest also winding down in Hood River area. Cranberry harvest underway after weather has cleared up. Quality good. Potato harvest well along in north-east and central areas and about half completed in Klamath County. Livestock condition good. Range and pasture fair to good, growth showing steady improvement.

PENNSYLVANIA: Cool and dry most of the week. Below normal temperature trend continued through the fifth consecutive week with temperatures for current week 3 to 6° below normal. Daily readings ranged from lows in the 30's to highs in the 50's and 60's with extremes 20 and 75°. Widespread frost several mornings. Light showers mid-period and 18th provided 0.25 to 0.50 in. rainfall most areas.

Five days suitable. Soil moisture adequate to short. Activities: Spreading lime and fertilizer, planting barley and wheat, plowing and harvesting ensilage corn, corn for grain, soybeans, potatoes, apples, and hay crops. Potato harvest 88% complete, last year 92%. Soybeans 21% harvested, 38% last year. Corn for grain virtually all mature and 37% harvested compared with virtually mature and 20% harvested. Ensilage corn 89% harvested, last year virtually complete. Barley planting virtually complete, same as last year. Wheat planting 86% complete, last year 83%. Fall plowing 88% complete, last year 89%. Fourth cutting alfalfa 64% complete, last year 69%. Hay quality good to fair. Feed from pasture average to below average.

PUERTO RICO: Island average rainfall 0.67 in. or 1.12 in. below normal. Highest weekly total 2.83 in. Temperatures averaged about 83 to 82° on Coasts and 78 to 77° Interior Divisions. Extremes: 98 and 57°.

SOUTH CAROLINA: Temperatures near normal except quite cool midweek, becoming warmer late in week. No rain except scattered drizzle 18th.

Soil moisture very short. Six days available for fieldwork. Cotton good condition, 96% open bolls behind estimated 100% year ago, average; 53% harvested, 64 last year, 48 average. Soybeans poor to fair condition due to drought, 94% of leaves turning color, 85 year ago, average; 33% mature, 19 year ago, 21 average; 7% harvested, 6 year ago, 5 average. Winter grazing 40% planted, 66 last year, average; emergence at stand-still in dry conditions, 23% compared to 46 last year, 47 average. Pastures poor, livestock being fed hay early. Fall snap beans poor to fair condition, 31% harvested, 39 last year. Fall cucumbers poor to fair condition, 63% harvested, 72 last year.

SOUTH DAKOTA: Precipitation over most of State. Up to 2.50 in. Most between 0.50 and 1.00 in. Topsoil moisture mostly adequate. Critically short in parts of northwest and west central. Majority of west central and southwest rated short. Parts of central, north central and north-east also short. Small area of east central rated surplus. Three days suitable. Much needed rains have delayed harvest for a few days but few farmers complaining. Livestock herds continue to be turned into stubble fields. Soybeans harvested 73%, 1980 92%, average 73%. Corn harvested

34%, 1980 60%, average 45%. Sorghum harvested 45%, 1980 57%, average 56%. Sunflowers harvested 43%, 1980 72%, average 58%.

TENNESSEE: A weak cold front moved through the State midweek bringing some rain to the western section. A stronger cold front moved through on the weekend bringing heavy amounts to most areas. Temperatures were near normal except for the western half which averaged 2 to 5° above normal.

Fieldwork: 5.3 days suitable. Soil moisture short. Cotton 37% picked, 1980 74%, average 37%. Virtually all of the acreage had open bolls. Soybeans shedding leaves 78%, 1980 92%, average 84%. Soybeans mature 39%, 1980 68%, average 50%, soybeans harvested 12%, 1980 25%, average 24%. Corn harvested 65%, 1980 70%, average 42%. Virtually all of the corn acreage had reached maturity. Burley tobacco 32% stripped, 1980 30%, average 29%. Overall pasture conditions continue to deteriorate and rated in fair to poor condition. Nearly all of the lespedeza hay was harvested. Fall plowing 68% complete, 1980 68%, average 71%. Wheat seeding 38% complete, 1980 54%, average 53%. Oats seeding 68% complete, 1980 76%, average 77%. Barley seeding 63% complete, 1980 80%, average 77%.

TEXAS: Weather: First part week thunderstorms Tropical Storm Norma moved southwest across North Central Texas where heavy rains flooded many towns, rivers. Otherwise skies partly cloudy. Thursday, thunderstorms developed North Texas, average temperatures near normal Plains, 4 to 5° above normal prevailed remainder of State. Average rainfall 6.00 in. above normal North Central Texas; 1.00 to 2.00 in. above normal from Pecos Area to East Texas. Rainfall was near normal elsewhere.

Range and livestock: Range, pasture condition good. Grazing adequate, outlook for fall, winter grazing excellent. Winter grasses have excellent start, small grains also making good progress. Livestock condition good, only minor insect, disease problems.

Commercial vegetables: Rio Grande Valley, vegetables making excellent progress, tomatoes, green peppers, celery, cauliflower, broccoli making good growth. Cabbage planting wrapping up. Citrus harvest continues, fruit showing good size, quality. Coastal Bend, wet conditions prevailed. Tomatoes, cucumbers progressing well. San Antonio-Winter Garden area, conditions favorable, vegetables progressing well. Irrigation light. Uvalde area, cucumbers for pickles making good progress. In East Texas, sweetpotato harvest slowed, fields wet. Quality good, dry conditions needed. Trans-Pecos region, activity slow, harvest of bell peppers delayed by wet fields. High Plains, rain stopped fieldwork; carrots, bell peppers awaiting harvest. Dry conditions needed to wrap up final harvesting. Pecans continue to mature. Most nuts splitting shucks, harvest begun early varieties.

Crops: Cool, damp weather High Plains delay cotton maturity; some areas quality deteriorating from persistent cool weather. Heavy rains damaged low-lying fields Low Plains, but little acreage lost. Most damage to quality and grade. State-wide, cotton condition 4% excellent; 60% good; 30% fair; and 6% poor. Sorghum harvest little progress, since rains and cool weather interrupted harvest and delayed maturity. Southern High Plains benefitted from rain. Corn harvest interrupted by rain. Small grains good progress; recent rainfall given boost many dry-seeded fields. Northern half State, small grain seeding delayed by wet conditions; some fields Cross-Timbers, Blacklands washed out, South Texas producers need rain; many small grain fields dusted in. Peanut harvest good progress before interrupted by rain.

Harvest full swing as fields dry. Blacklands heavy rains fields which were dug; nut quality could be lowered. South Central Texas blight increase because of high humidity. Cotton open bolls 68%, 76% 1980. Cotton harvested 22%, 32% 1980, 27% average. Sorghum turning color 99%, 96% 1980. Sorghum mature 90%, 92% 1980. Sorghum harvested for grain 79%, 84% 1980, 83% average. Wheat planted all purposes 67%, 67% 1980, 75% average. Wheat emerged 44%, 54% 1980. Corn for grain harvested 91%, 90% 1980, 89% average. Peanuts harvested 36%, 37% 1980, 56% average. Soybeans harvested 21%, 45% 1980, 33% average. Sugarbeets harvested 6%, 1% 1980, 17% average. Pecans harvested 2%, 3% 1980, 4% average. Sunflowers harvested 53%, 56%, 57% average. Oats planted 61%, 66% 1980, 67% average.

UTAH: Recurring periods rain in valleys and snow in mountains. Accumulated amounts moisture generally moderate to heavy. Near record accumulations so early in water year some localities. Average temperatures ranged from 3 to 12° below normal. Heavy precipitation improved soil moisture status appreciably.

Harvest of alfalfa seed and onions completed. Some fourth crop hay being made. Corn silage, apple, and potato harvest nearing completion. Cattle and sheep off summer range before this weekend. Cattle and sheep on winter range in good condition.

VIRGINIA: Cool first of period, with a gradual warming by weekend. Average temperature in lower 50's, several degrees below normal for mid-October. Extremes: 80° to mid 20's. Rainfall light, averaging less than 0.10 in., occurring mainly on 17th.

Prior to the rain on 18th, topsoil moisture was rated 95% short, 5% adequate. Days available for fieldwork: 6.2. Harvest of corn for grain 69% complete, 67% 1980, 59% average. Ninety-nine percent of the crop mature, the same as 1980 and normal. Peanuts 89% dug and 67% combined, compared with 41% dug, 24% combined 1980, and 53% dug, 32% combined average. Soybeans 17% harvested, 7% 1980, 7% average. Sorghum for grain 12% cut, 20% 1980, 12% average. Small grain planting progress: Barley 58%, 48% 1980, 45% average; wheat 26% seeded, 25% 1980, 23% average; winter oats 77% seeded, 63% 1980, 55% average. Pastures rated in fair condition. Western Piedmont pastures rated poor but rated good in southern Piedmont. Dry soils in most areas were slowing small grain plantings and causing spotty stands in some fields. Water was becoming limited for livestock in some areas and some supplemental feeding where grazing was scarce. Apple, sweetpotato, burley tobacco, and corn silage harvests were slowing. Some late corn was damaged by frost the previous week. Cucumber, snap bean, pepper and other leaf fall vegetables were harvested and winter leaf crops were being planted on the Eastern Shore.

WASHINGTON: West: Cool temperatures and foggy conditions during the relatively dry week. Average temperatures were 5° below normal. Field activities were limited during the week. If fields were dry enough, operations consisted of field preparation, winter wheat seeding and veget-

able harvesting. Harvest of carrots for processing has replaced sweet corn harvest activity. Hay and pasture feed adequate.

East: Cool and dry with average temperatures mostly 2 to 8° below normal. Golden and Red Delicious harvest were approaching completion. Quality remains good but size smaller than normal for Reds. Other crop harvest activities were in varying stages were potatoes, dry beans, field corn, grapes, and carrots. Field preparation and winter wheat seeding were active. Some growers were reseeding poor stands and fields with heavy cheat infestation. Range feeds and hay remained adequate.

WEST VIRGINIA: Temperatures below normal. Low 17°. Precipitation below normal. Range 0 to 0.43 in. Frost common across the State.

Soil moisture short to adequate. Days worked: 5.5. Corn 38% harvested; 54% in 1980. Pasture fair to poor. Fall seeding: Wheat 94%, 78% in 1980; barley 96%, 75% in 1980. Dry weather continues to aid in fieldwork but becoming a problem in pasture and some water supplies.

WISCONSIN: A rainy week as October rains fell widely across the State. Rainfall fell on 14th, 17th and 18th. Most districts reported rainfall in the range of 1.60 to 2.50 in. Snowfall fell in the Lake Superior snowbelt on 18th and dumped approximately 3 in. of snow in northern Iron County. Temperatures averaged near normal with highs mostly in the 70's and lows mostly in the 30's. High of 73° was reported in Palmyra on 13th while Morse was the cool spot, reporting 22° on 16th.

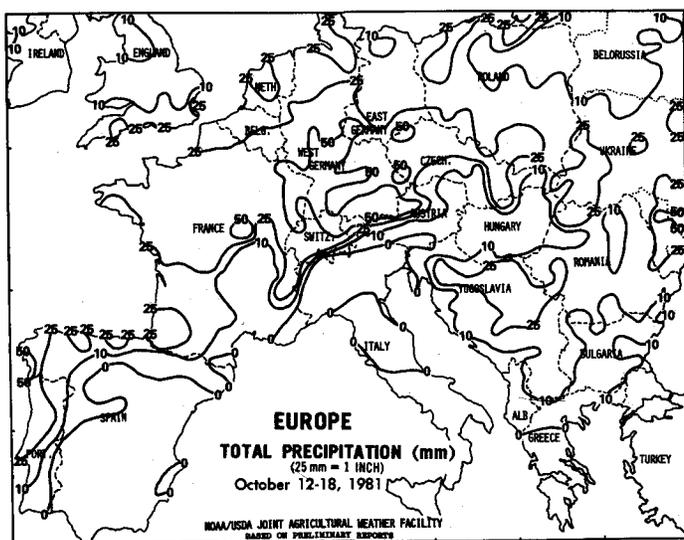
Fieldwork: 4 days suitable. Rainfall and surplus soil moisture conditions slowed normal fieldwork activity. Silo filling 82% complete, 81% 1980, 90% average. Corn grain 99% mature, 100% 1980, 100% average. Dry down in the corn crop remains a problem which accounts for the small amount of corn harvested at this point. Corn crop 8% harvested, 22% 1980, 19% average. Soybean harvest also lagging behind normal and was 13% complete, 40% 1980, 24% average. Some third and fourth crop hay being made as weather permits. Pastures look good, reported at 91% normal, 97% 1980, 80% average. Some late season potatoes still being harvested and the cranberry harvest progressing. Topsoil moisture supplies were rated 32% adequate and 68% surplus.

WYOMING: First major storm system last half of week. First part of week pleasantly warm and dry, highs mostly in 70's. Warmest 79°. Coldest 18°. All sites significant moisture; amounts over an inch in Green and Bear, Snake, Upper Platte Drainages. Topsoil moisture short 52% State. Winter wheat emerged: 95%; year ago 90%. Winter wheat mostly good condition. Potatoes dug: 70%; last year virtually all; normal 92%. Sugarbeets dug: 85%; last year 55%; normal 70%. Corn for grain harvested: 20%; last year 25%; normal 33%. Dry beans combined: Over 95%; last year 92%. Yearlings sold or delivered; 40%, year ago 55%. Calves sold or delivered 30%, last year 35%. Lambs sold or delivered 50%, last year 50%. Hay supplies for wintering livestock adequate most areas.

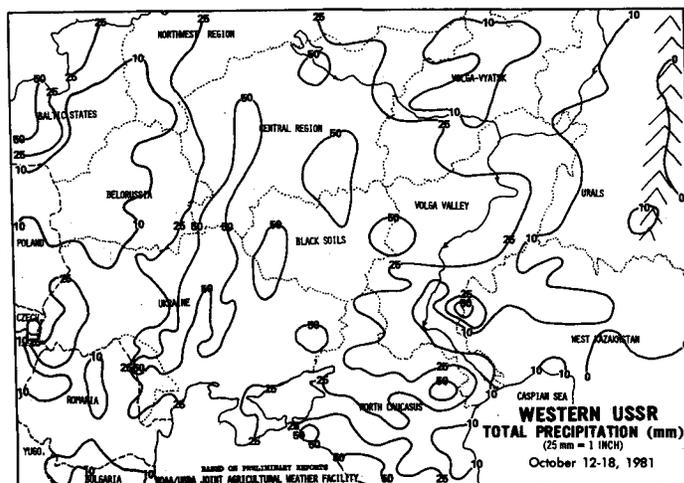
International Weather and Crop Summary

HIGHLIGHTS
October 12-18, 1981

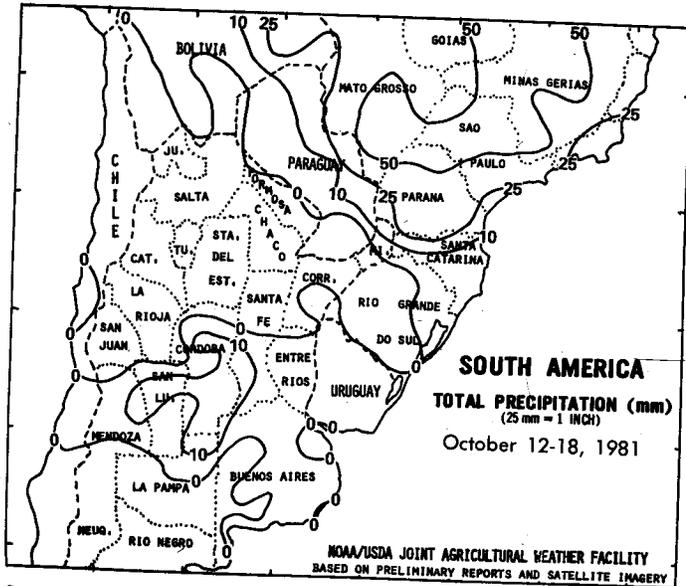
<u>EUROPE:</u>	Conditions too wet in some central areas.
<u>USSR:</u>	Beneficial precipitation for winter grains.
<u>EASTERN ASIA:</u>	Heavy rains in Yangtze Valley; drier weather for China's late rice.
<u>SOUTH ASIA:</u>	Rainfall only in southern India.
<u>NORTHWESTERN AFRICA:</u>	No rainfall; sowing of winter grains awaits autumn rain.
<u>SOUTH AMERICA:</u>	Beneficial showers in northern Argentina but still too dry for adequate crop growth; favorable weather in Brazil.
<u>SOUTH AFRICA:</u>	Generally dry weather over corn areas; corn planting begins.
<u>AUSTRALIA:</u>	Wet weather in Queensland too late for wheat but beneficial to spring crops; favorable conditions in Victoria and West Australia.
<u>SOUTHEAST ASIA:</u>	Widespread showers improve moisture supplies.
<u>MEXICO:</u>	Hurricane Norma may have hurt some lower West Coast vegetables.



EUROPE: Above-normal precipitation continued over a broad area of central Europe. Conditions have become too wet for winter grains in northeastern France and southern West Germany. Moderate precipitation improved moisture conditions in parts of Poland, but below-normal temperatures slowed growth nearly to a halt across the entire northern tier of countries. Further south, temperatures remained above normal in the southwest, but dipped below normal in the southeast. No rain fell in southeastern Spain, parts of which remained too dry to begin sowing of winter grains.



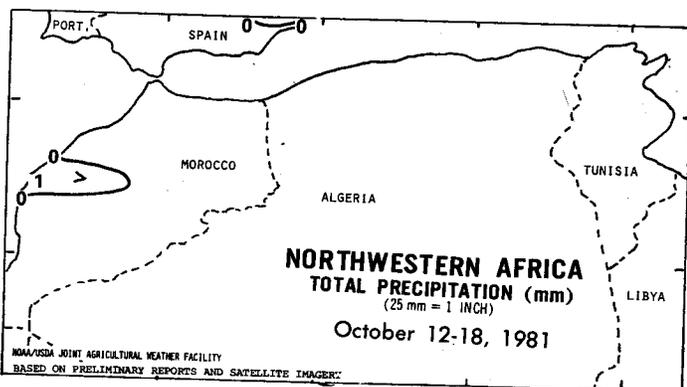
USSR: Much-above-normal precipitation occurred over most of the winter grain belt as two storms swept through the region. The moisture improved growing conditions for winter grains. Temperatures in the northern part of the belt returned to near-normal, slowing growth dramatically. Autumn harvesting was interrupted by the precipitation, but earlier dry weather had allowed the harvest to advance more rapidly than normal. Northerly crop areas also received abundant precipitation, continuing to replenish soil moisture depleted during last summer's extremely dry conditions. Cotton harvesting continued under generally favorable conditions. Scattered showers across the area caused no substantial problems, and temperatures stayed above normal, with only occasional light frost.



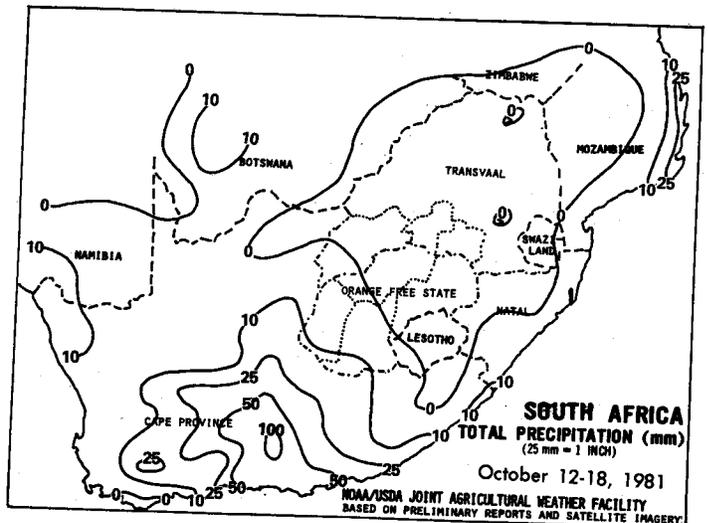
SOUTH AMERICA: In Argentina, the crop areas of Cordoba and Santa Fe received some extremely beneficial rain for wheat entering the reproductive development stage and for sowing, emergence, and early growth of coarse grains. The wheat areas of Buenos Aires remained mostly dry, however. Wide temperature fluctuations further stressed crops which lack sufficient moisture. Extreme maximum temperature of 30°C and extreme minimum temperatures of -2°C were reported in Buenos Aires within a span of 72 hours. Additional rainfall is needed soon in all crop areas of Argentina to prevent significant reductions in crop yields. In Brazil, widespread rain fell in Parana, Sao Paulo, and Minas Gerais to benefit corn, soybeans, and other crops in the planting or early growth stages. Dry weather prevailed in Rio Grande do Sul, which has sufficient soil moisture at present for wheat growth.



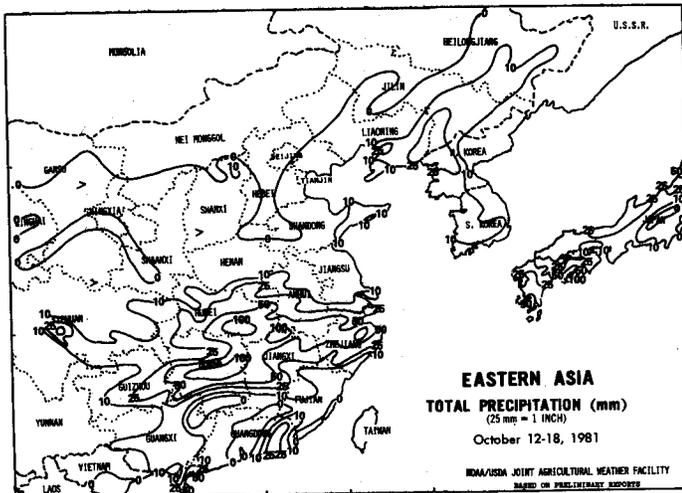
MEXICO: Hurricane Norma's rains falling across the lower West Coast vegetable district on the 12th may have destroyed some winter tomatoes and cucumbers. Remnants of the hurricane also triggered rains over Durango and Coahuila, benefiting range and wheatlands. Sunny, dry weather over the upper West Coast this week permitted salvaging and some replanting of crops, following Tropical Storm Lidia's devastation on October 7. Since rainfall was relatively light, harvesting of corn, cotton, and other mature crops generally should have progressed well in the remaining major production areas.



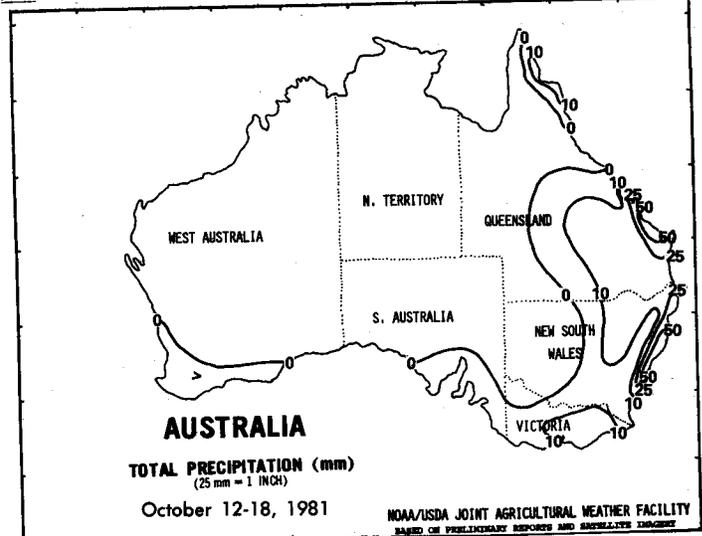
NORTHWESTERN AFRICA: Virtually no rain fell on agricultural areas, as high pressure kept the storm track far to the north. The sunny weather maintained temperatures above normal, and winter grain sowing still awaits the onset of autumn rains.



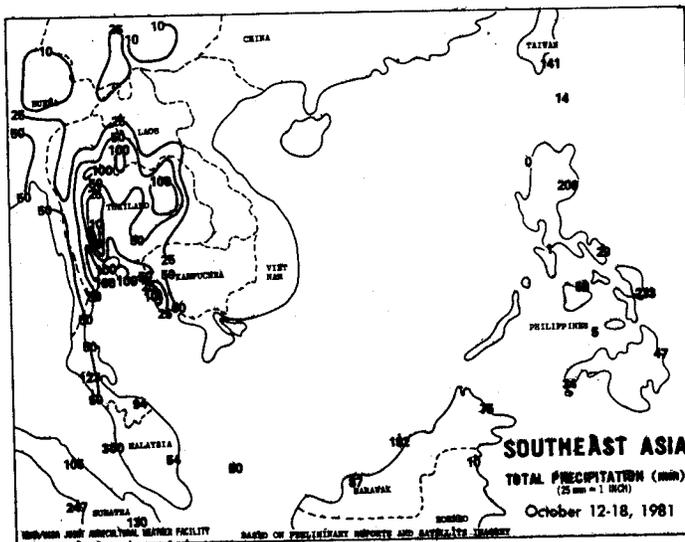
SOUTH AFRICA: Little precipitation fell on the major corn areas in the Transvaal and Orange Free State. Areas southwest of the corn triangle received heavy rains with some stations reporting amounts in excess of 50 mm. According to the normal crop calendar, corn planting is currently underway and early season rains have provided good soil moisture conditions for sowing and emergence. In addition, the rainy season in the corn area normally begins in October, reaching a maximum during December through February and extending through April. The peak moisture demand of the crop, which occurs during the critical reproductive period, coincides with the peak rainy season. Therefore, sufficient rainfall during this period is essential for favorable crop yields.



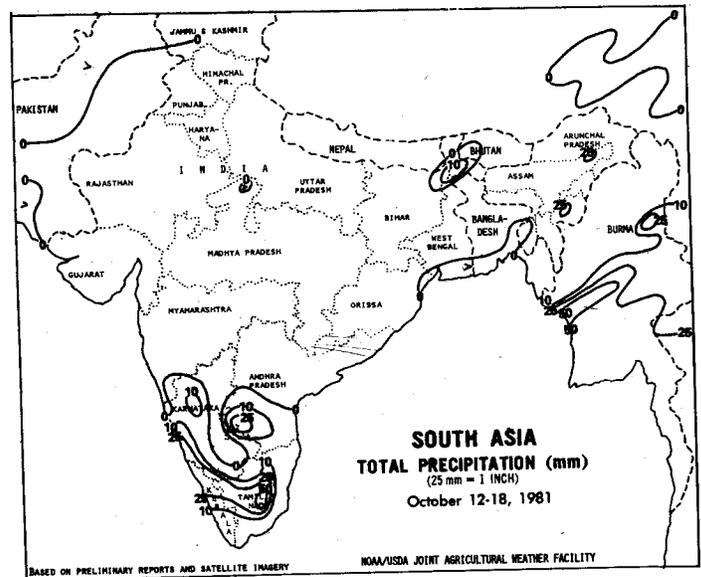
EASTERN ASIA: Heavy rainfall continued in the Yangtze Valley, disrupting late harvesting, but benefiting southernmost winter grain areas. Conditions remained too dry for unirrigated winter grains in Hebei and western Shandong; however, light rainfall in eastern Shandong may have moistened soils enough to permit sowing. Temperatures in the wheat belt held slightly below normal. Double-crop rice areas along the southern coast had improved harvest weather. Some showers perpetuated locally unfavorable wetness, but most of the area had only light rain, while temperatures were mostly above normal. In South Korea, near-normal precipitation over most agricultural areas maintained favorable conditions for winter grains, but did not seriously interfere with harvesting.



AUSTRALIA: Wet weather occurred over grain areas of southern Queensland and northeast New South Wales. Reports indicate that harvest activity has begun in this area, therefore, the rain came too late to improve yields. The rain, however, was beneficial to spring sown crops. Further south, modest rains fell on southern New South Wales, South Australia, and Victoria benefiting the wheat crop. More rain is needed in these areas as the wheat crop is heading at this time and soil moisture reserves are becoming too low. Moisture stress during the critical stage of development will cause a reduction in yield potential. Light scattered showers fell on grain areas of West Australia where the grain crop is advancing through the heading stage. Crop prospects at this time in West Australia look highly favorable.



SOUTHEAST ASIA: Substantial rain fell over most of Thailand with well-above average amounts concentrated over portions of the Northern Highlands and in northeastern areas. This moisture was very beneficial for storage reservoirs and rice in vegetative development. These late rains have improved moisture reserves which were somewhat below average due to relatively poor September rainfall. Shower activity in the Central Plains was not as intense as elsewhere in Thailand but conditions are generally favorable for crop growth. Based on limited data, showers also fell in adjacent areas of Laos, Kampuchea, and Burma.



SOUTH ASIA: No rain fell over most of the region. Monsoon rains continued in the southernmost states of India as they normally do at this time of year. Most of the summer crops in India which have not already matured should have adequate moisture. Some winter grain areas in the northwest remain too dry, and supplemental irrigation may be required to establish the crop.

