

WEEKLY WEATHER AND CROP BULLETIN

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

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

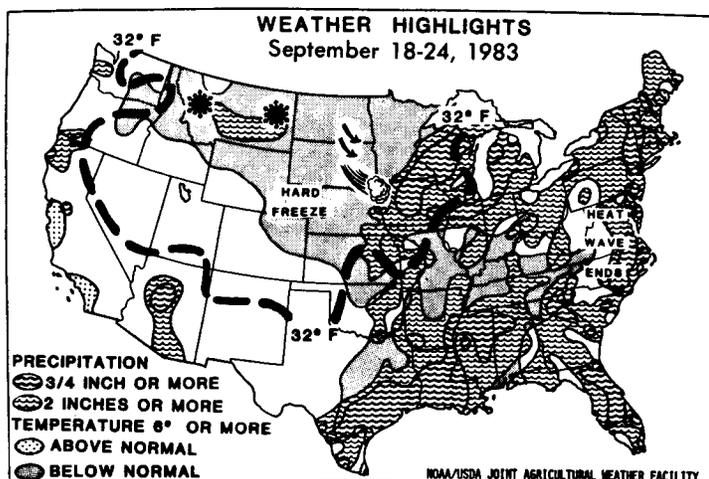
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WASHINGTON, D.C.

Sept. 27, 1983

National Weather Summary

September 18 to 24



Cold rain spread over the Nebraska Panhandle and stressed livestock. Showers were scattered through the central Rockies and in the Southwest. A warm southerly flow from the Gulf of Mexico triggered showers from southeastern Texas and southern Louisiana northward through the eastern portion of the Plains. Heavy showers and thunderstorms occurred along a cold front that moved to a line from eastern Kansas to northern Michigan. Showers fell over all of the Gulf Coast States and in western New York.

TUESDAY...The cold front moved to a line from Ohio to southeastern Texas and spread heavy showers and thunderstorms along the front as it moved eastward. Unseasonably cold air behind the front was borne on strong northwesterly wind. Freezing temperatures spread into the Dakotas and western Nebraska. Southerly wind ahead of the front carried moisture northward and triggered showers and thunderstorms through the East Coast States to Virginia. Rain fell in some of the previously very dry areas.

HIGHLIGHTS: An outbreak of cold polar air began in the northern Rockies early in the week and rapidly moved southward and eastward and off the east coast by midweek. A record-breaking heat wave covering the east coast early in the week gave way to unusually cool weather at midweek. Heavy snow fell in Montana early in the week, and subfreezing temperatures reached as far south as the Texas Panhandle and eastward to the upper Mississippi Valley. Nearly all of the Nation averaged colder than normal for the week. Moderate to heavy showers accompanied the frontal passage from the eastern part of the Plains to the east coast. Showers covered the southwest, and a few showers and thunderstorms were reported in the northern San Joaquin Valley of California.

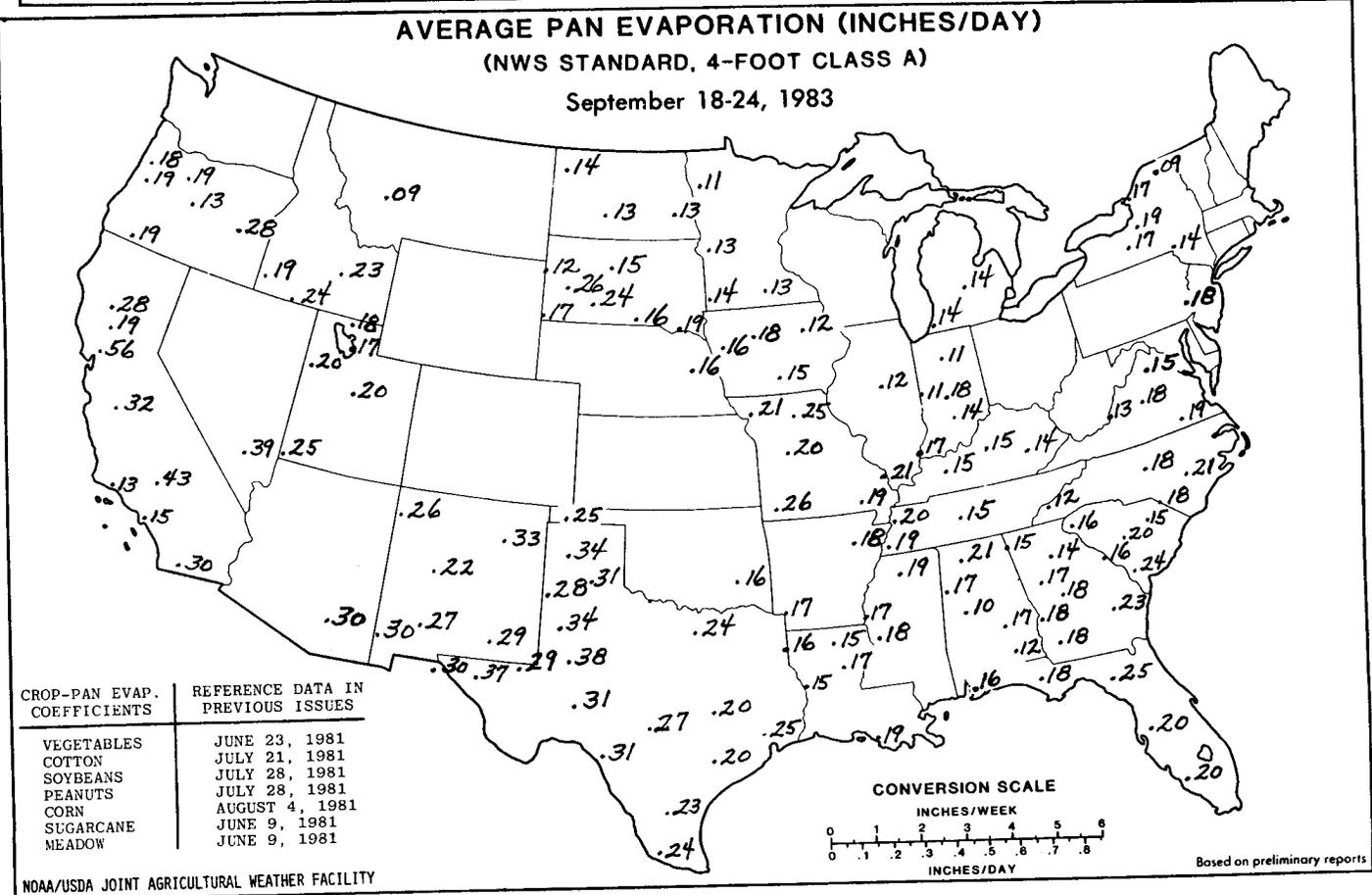
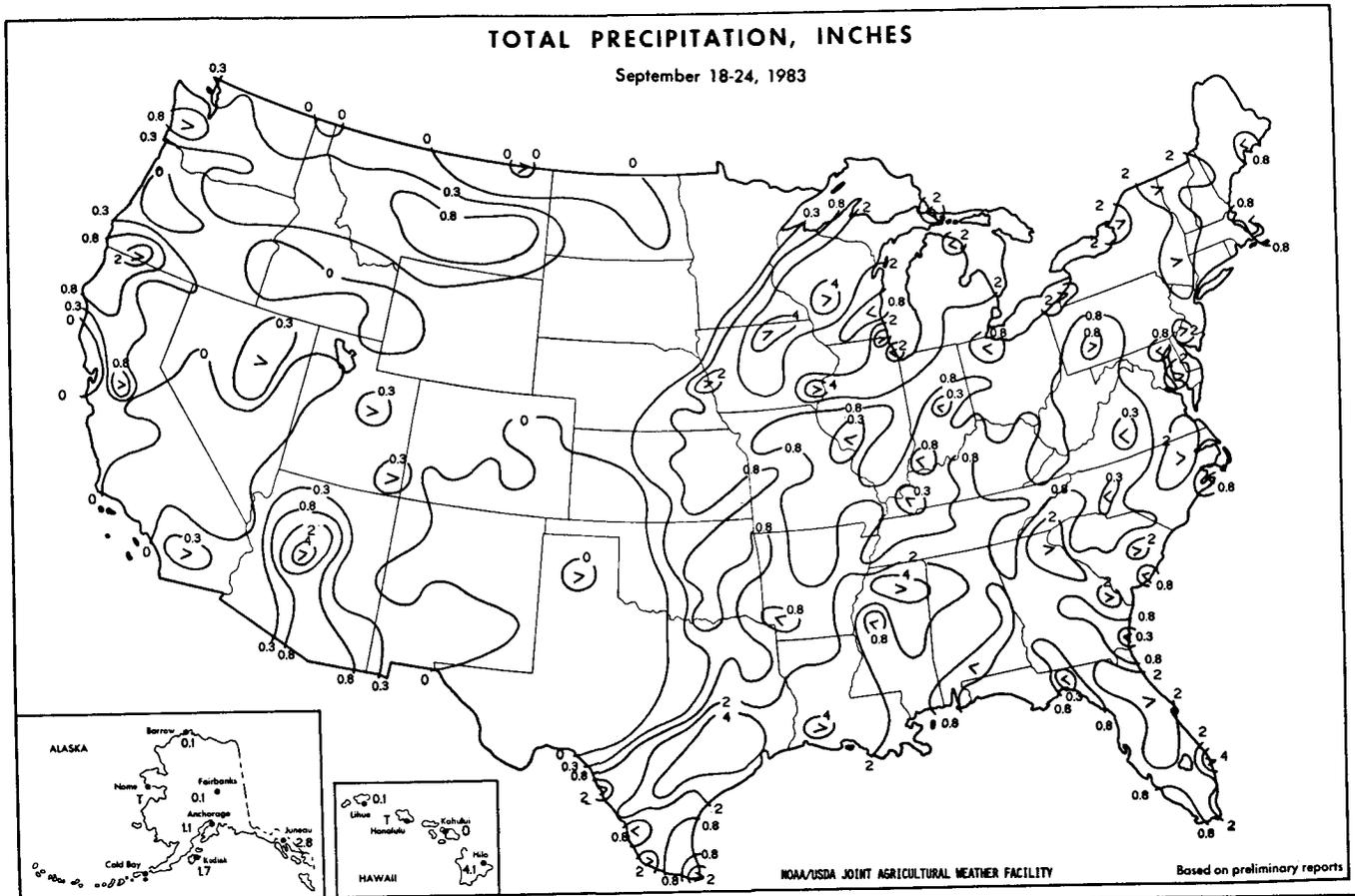
WEDNESDAY...The fast-moving cold front moved off the east coast by the end of the day. Showers and thunderstorms covered all of the East Coast States with much-needed rain and dispelled the heat wave that had set record warm temperatures. Cold air plunged behind the front. Freezing temperatures covered the Rockies and pushed into the Plains and as far south as the Texas Panhandle. Temperatures dropped to the low twenties in Wyoming and western Nebraska. Record cold morning temperatures were marked as far east as Indiana and Alabama.

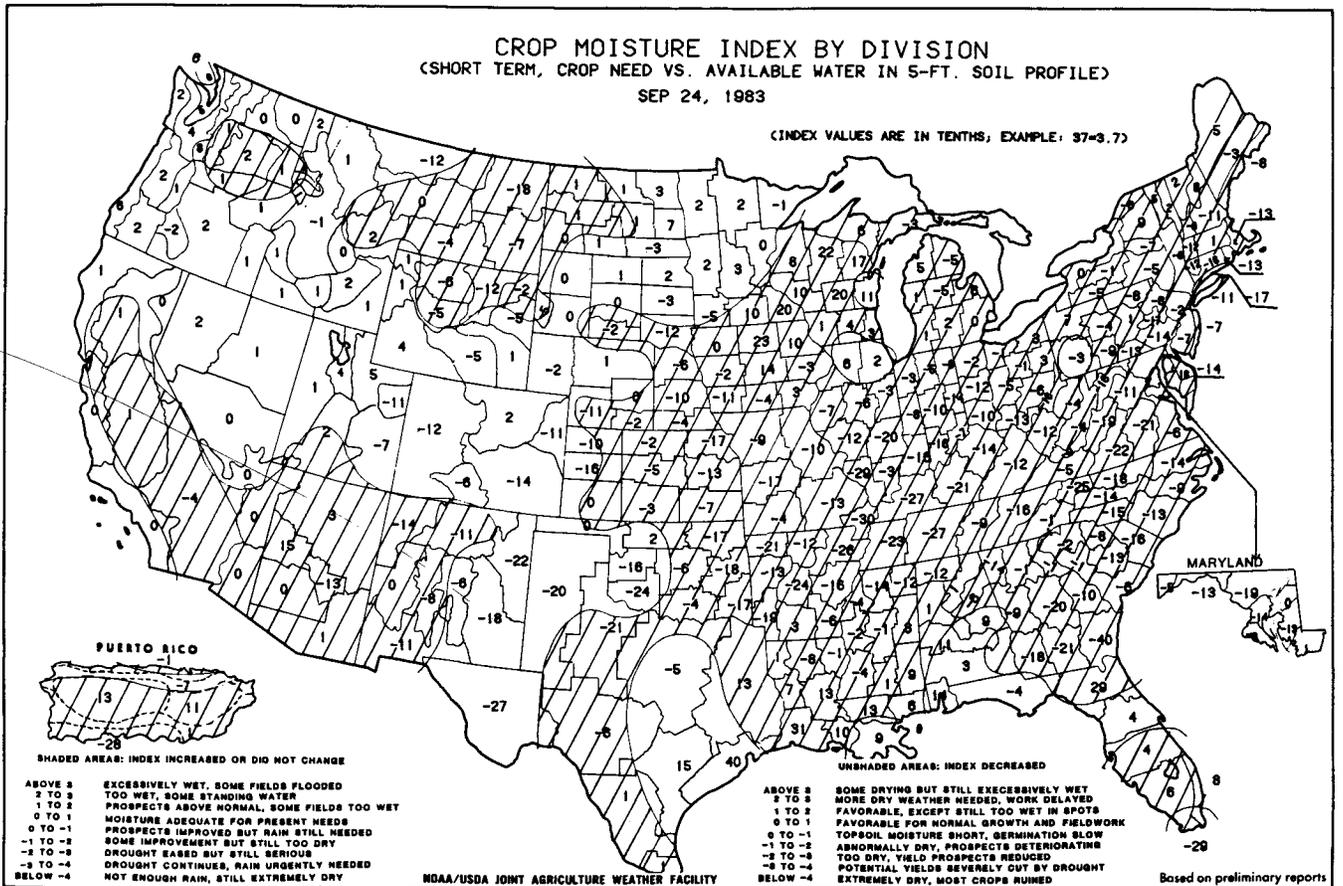
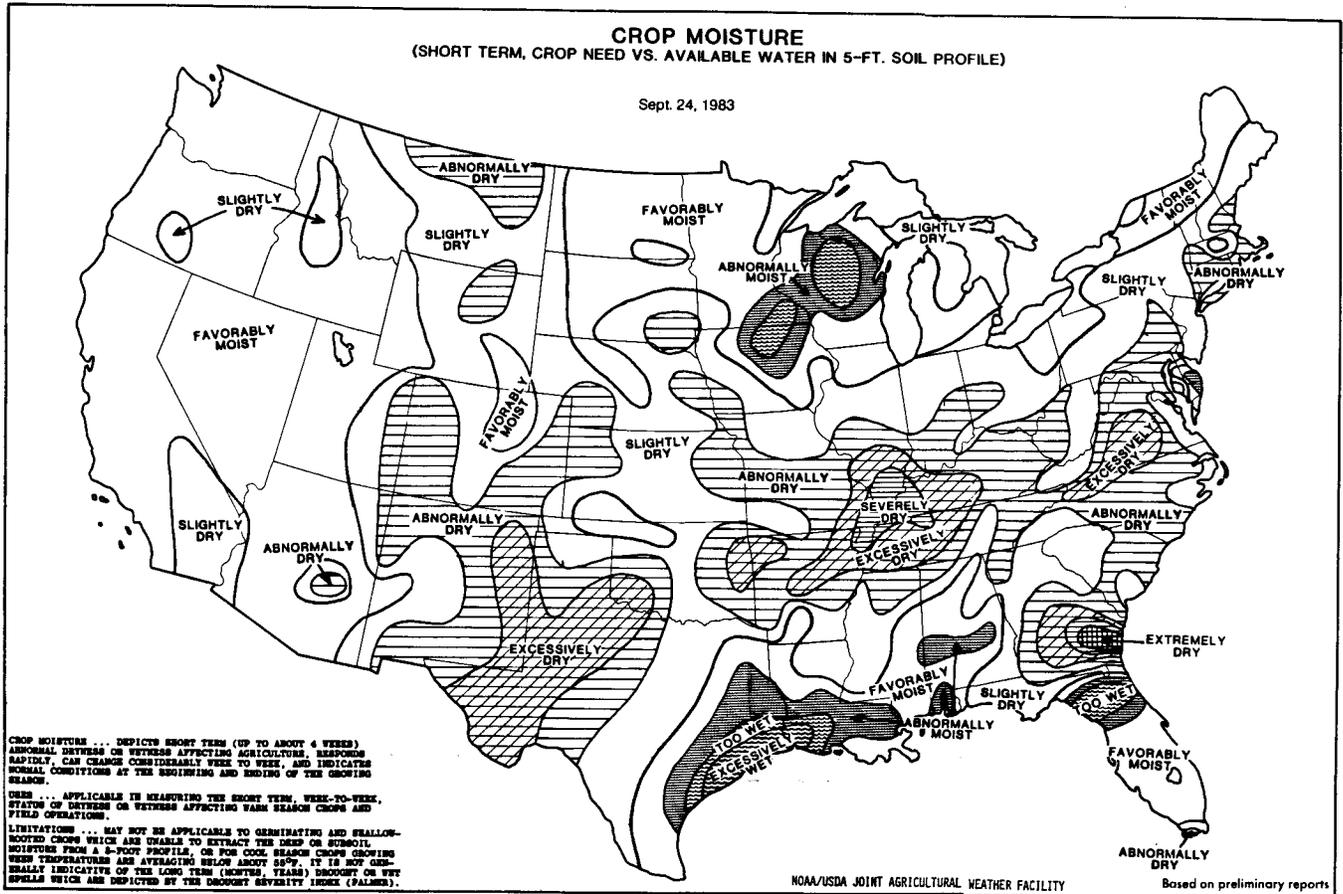
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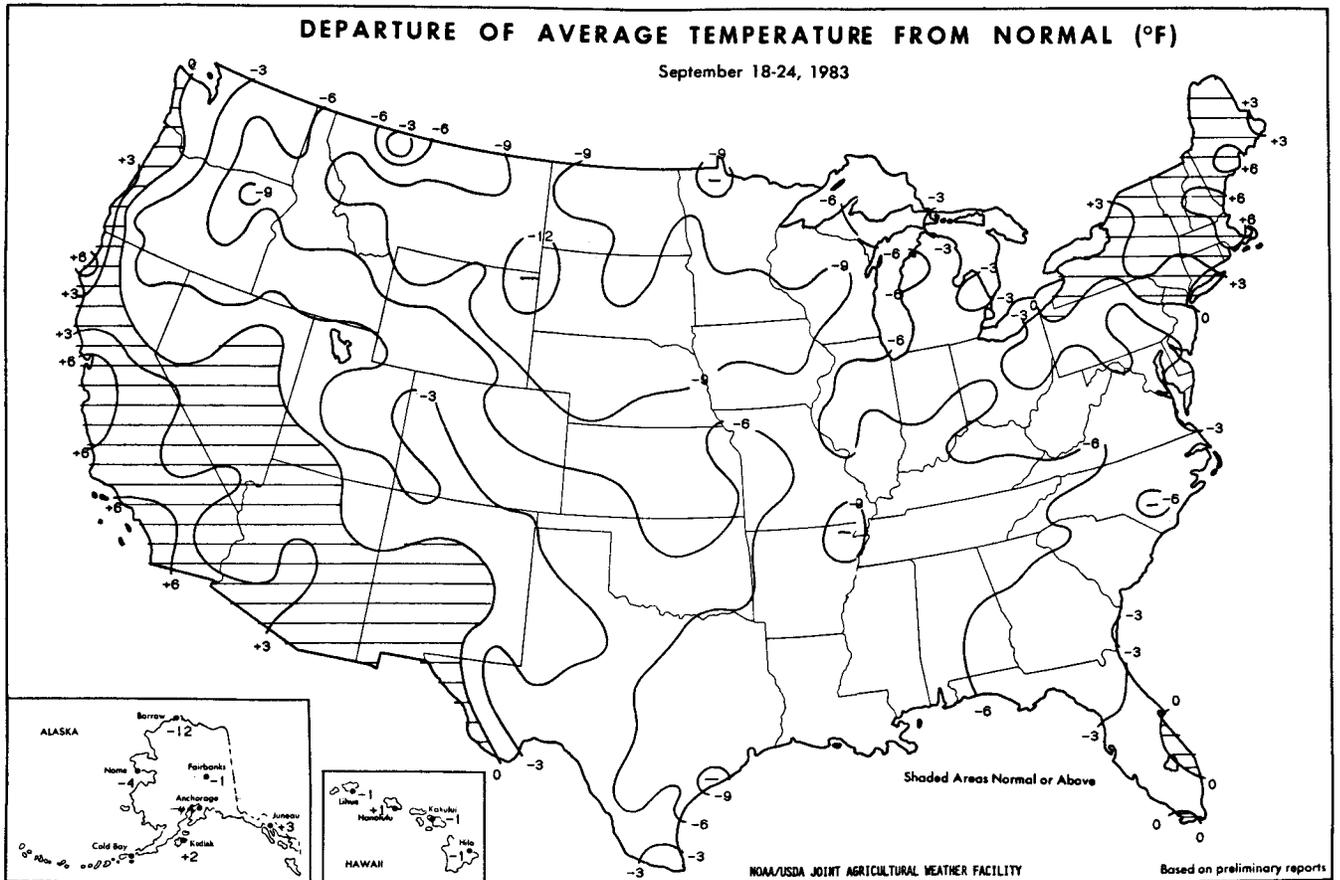
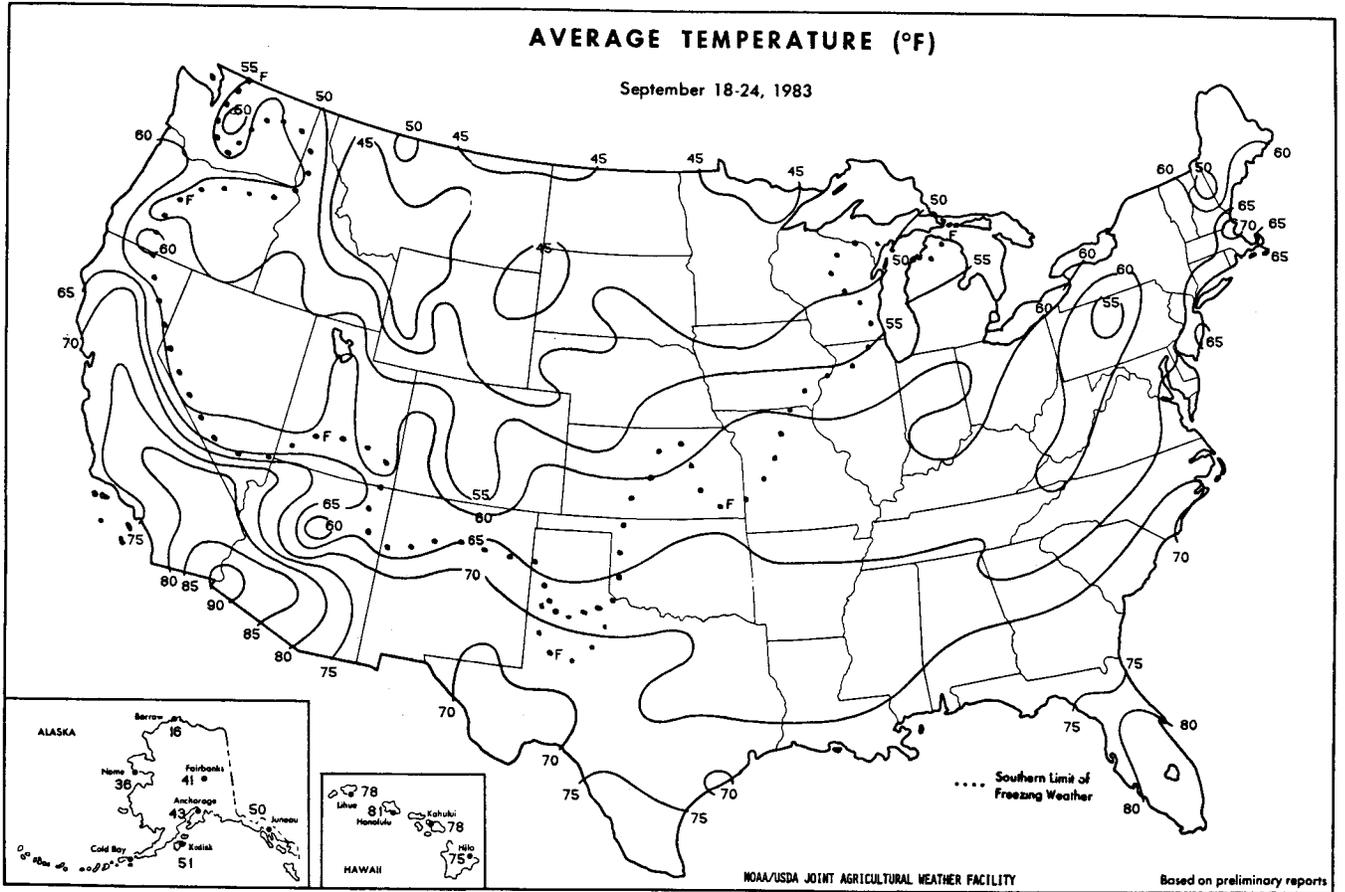
SUNDAY...Cool weather covered the northern Rockies and spread eastward to the Great Lakes, but southerly winds brought warm weather to the central Plains and Midwest. Rain over the northwestern States turned to snow in the northern Rockies, and by late evening heavy snow was falling over most of Montana. Some moderate to heavy showers and thunderstorms were reported along a line from Iowa to southern Michigan. An upper air disturbance triggered showers and thunderstorms through eastern Texas and Louisiana.

MONDAY...Very cold air pushed into the northern Rockies and heavy snow continued in Montana and spread eastward before clearing late in the day.

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HEATING DEGREE DAY DATA WEEKLY SUMMARY
 CLIMATE ANALYSIS CENTER-NMC-NWS-NOAA
 ASSESSMENT AND INFORMATION SERVICES CENTER-NESDIS-NOAA

LAST DATE OF DATA COLLECTION PERIOD IS 9-24-1983
 ACCUMULATIONS ARE FROM JULY 1
 **** = NORMAL LESS THAN 100 OR RATIO INCALCULABLE

STATE CITY	CALL	WEEK TOTAL	WEEK DEV FROM NORM	WEEK DEV L YR	CUM TOTAL	CUM DEV FROM NORM	CUM DEV L YR	CUM DEV FROM NORM	CUM DEV L YR	STATE CITY	CALL	WEEK TOTAL	WEEK DEV FROM NORM	WEEK DEV L YR	CUM TOTAL	CUM DEV FROM NORM	CUM DEV L YR	CUM DEV FROM NORM	CUM DEV L YR
AL BIRMINGHAM	BHM	24	22	6	24	22	6	****	****	MT MILES CITY	MLS	126	67	87	183	-12	28	-6	18
AL MOBILE	MOB	7	7	2	7	7	2	****	****	MT MISSOULA	MSO	144	65	106	443	130	148	41	50
AL MONTGOMERY	MGM	8	8	3	8	8	3	****	****	NE GRAND ISLAND	GRI	69	37	10	89	-11	-38	-10	-29
AK ANCHORAGE	ANC	155	24	22	873	11	-4	1	-5	NE LINCOLN	LNK	65	41	4	70	3	-31	****	****
AK BARROW	BRW	338	84	75	2715	219	11	8	3	NE NORFOLK	OFK	87	50	28	120	2	-4	1	-3
AK FAIRBANKS	FAI	166	6	42	879	27	212	3	31	NE NORTH PLATTE	LBF	97	54	40	124	3	-13	2	-9
AK JUNEAU	JNU	105	-14	-5	910	-64	59	-6	6	NE OMAHA	ON4	75	53	21	94	48	-17	****	****
AK KODIAK	ADQ	99	-16	-22	726	-287	-204	-28	-21	NE VALENTINE	VTN	109	62	44	150	23	-8	18	-5
AK NOME	OME	198	25	40	1350	-81	254	-5	23	NV ELY	ELY	70	0	23	194	-66	-48	-25	-19
AZ FLAGSTAFF	FLG	44	-18	6	229	-43	-66	-15	-22	NV LAS VEGAS	LAS	0	0	0	0	0	0	0	0
AZ PHOENIX	PHX	0	0	0	0	0	0	****	****	NV RENO	RNO	47	0	7	101	-100	-94	-49	-48
AZ TUCSON	TUS	0	0	0	0	0	0	****	****	NV WYNNEMUGCA	WMC	59	7	7	141	-37	-45	-20	-24
AZ WINSLOW	INW	1	-3	-6	1	-3	-6	****	****	NH CONCORD	CON	44	-10	-32	149	-40	-84	-21	-36
AZ YUMA	YUM	0	0	0	0	0	0	****	****	NJ ATLANTIC CITY	ACY	38	29	8	6	4	5	****	****
AR FORT SMITH	FSM	25	18	9	25	18	9	****	****	NM ALBUQUERQUE	ABQ	8	4	3	8	4	5	****	****
AR LITTLE ROCK	LMI	22	19	8	22	19	8	****	****	NM ROSWELL	ROW	7	4	6	7	4	6	****	****
CA BAKERSFIELD	BFL	0	0	0	0	0	0	****	****	NY ALBANY	ALB	46	1	-22	121	-2	-90	-1	-42
CA BUREKA	EKA	16	-40	-27	304	-412	-185	-57	-37	NY BINGHAMTON	BGM	53	3	-19	110	-63	-105	-36	-48
CA FRESNO	FAT	0	0	0	0	0	0	****	****	NY BUFFALO	BUF	48	11	-13	103	-27	-83	-20	-44
CA LOS ANGELES	LAX	0	-7	0	0	-51	0	****	****	NY NEW YORK	LGA	22	12	0	29	13	-4	****	****
CA RED BLUFF	RBL	0	0	-3	0	0	-4	****	****	NY ROCHESTER	ROC	47	10	-6	98	-28	-62	-22	-38
CA SAN DIEGO	SAN	0	-1	0	0	-5	0	****	****	NY SYRACUSE	SYR	44	6	-23	130	7	-64	5	-32
CA SAN FRANCISCO	SFO	2	-19	-10	41	-213	-149	-83	-78	NC ASHEVILLE	AVL	46	29	5	50	17	4	****	****
CA STOCKTON	SKO	0	0	0	0	0	0	****	****	NC CAPE HATTERAS	HAT	11	11	10	11	11	10	****	****
CO DENVER	DEN	67	30	40	81	-11	0	****	****	NC CHARLOTTE	CLT	23	20	9	23	20	9	****	****
CO GRAND JUNCTION	GJT	19	0	19	19	-21	-19	****	****	NC GREENSBORO	GSO	35	34	11	40	39	16	****	****
CO PUEBLO	PUB	47	22	36	49	-9	13	****	****	NC RALEIGH DURHAM	RDU	29	28	16	30	29	17	****	****
CT BRIDGEPORT	BDR	24	8	-15	51	25	-14	****	****	NC WILMINGTON	ILM	11	11	8	11	11	8	****	****
CT HARTFORD	HDL	30	-1	-19	65	-8	-40	****	****	ND BISMARCK	BIS	132	62	47	247	10	-28	-3	-10
DE WILMINGTON	ILG	31	18	10	40	24	3	****	****	ND FARGO	FAR	131	66	48	272	48	17	21	6
DC WASHINGTON	DCA	21	17	13	21	17	11	****	****	ND WILLISTON	ISN	133	58	69	227	-55	7	-19	3
FL APALACHICOLA	AQQ	0	0	0	0	0	0	****	****	OH AKRON-CANTON	CAK	56	24	-3	93	14	-41	****	****
FL DAYTONA BEACH	DAB	0	0	0	0	0	0	****	****	OH CLEVELAND	CLE	59	29	-13	94	-1	-68	****	****
FL FORT MEYER	FMY	0	0	0	0	0	0	****	****	OH COLUMBUS	CMH	54	31	-8	73	22	-27	****	****
FL JACKSONVILLE	JAX	0	0	0	0	0	0	****	****	OH CINCINNATI	CVG	68	52	25	73	45	28	****	****
FL KEY WEST	EYW	0	0	0	0	0	0	****	****	OH DAYTON	DAY	67	45	3	90	48	3	****	****
FL MIAMI	MIA	0	0	0	0	0	0	****	****	OH TOLEDO	TOL	67	36	-7	105	17	-69	****	****
FL ORLANDO	MCO	0	0	0	0	0	0	****	****	OH YOUNGSTOWN	YNG	60	25	-20	115	-7	-95	-5	-45
FL TALLAHASSEE	TLH	1	1	0	1	1	0	****	****	OK OKLAHOMA CITY	OKC	25	20	15	25	17	15	****	****
FL TAMPA	TPA	0	0	0	0	0	0	****	****	OK TULSA	TUL	19	12	1	19	7	1	****	****
FL WEST PALM BEACH	PBI	0	0	0	0	0	0	****	****	OR ASTORIA	AST	48	-3	24	353	-97	-9	-21	-2
GA ATLANTA	ATL	24	21	10	24	21	10	****	****	OR BURNS	BWJ	93	32	21	466	225	61	101	15
GA AUGUSTA	AGS	12	12	8	12	12	8	****	****	OR MEDFORD	MFR	16	-11	-4	66	-21	-6	****	****
GA MACON	MCN	10	10	7	10	10	7	****	****	OR PENDELTON	PDT	71	37	45	153	37	22	31	16
GA SAVANNAH	SAT	3	3	3	3	3	3	****	****	OR PORTLAND	PDX	25	-6	17	85	-77	20	-47	30
HI HILO-HAWAII	IHO	0	0	0	0	0	0	****	****	OR SALEM	SLE	24	-13	13	125	-79	6	-38	5
HI HONOLULU-OAHU	HNL	0	0	0	0	0	0	****	****	PA ALLENTOWN	ABE	38	12	-5	58	-4	-37	****	****
HI KAHULUI-HAUI	KCC	0	0	0	0	0	0	****	****	PA ERIE	ERI	41	4	-19	74	-55	-94	-42	-55
HI LIHUE-KAUAI	LKH	0	0	0	0	0	0	****	****	PA HARRISBURG	CXY	41	23	5	59	25	-6	****	****
ID BOISE	BOI	59	20	40	129	12	-4	10	-3	PA PHILADELPHIA	PHL	32	22	8	37	22	2	****	****
ID LEWISTON	LWS	64	27	57	115	5	32	4	8	PA PITTSBURGH	PIT	60	29	-11	102	26	-15	****	****
ID POCATELLO	PIH	77	20	50	178	-3	14	-1	8	PA SCRANTON	AVP	43	8	-12	95	-12	-67	-11	-41
IL CHICAGO	ORD	75	52	-1	127	74	-35	****	****	RI PROVIDENCE	PVD	14	-15	-26	36	-29	-52	****	****
IL MCLEINE	MLI	67	44	2	99	51	7	****	****	SC CHARLESTON	CHS	5	5	5	5	5	5	****	****
IL PEORIA	PIA	67	46	9	85	42	5	****	****	SC COLUMBIA	GAE	10	10	-1	10	10	-1	****	****
IL ROCKFORD	RFD	86	56	2	126	30	-27	****	****	SD GREENVILLE	GSP	35	34	16	35	34	16	****	****
IL SPRINGFIELD	SPI	61	45	7	68	43	6	****	****	SD ABERDEEN	ABR	115	60	50	173	5	5	2	2
IN EVANSVILLE	EVV	54	42	22	54	34	22	****	****	SD HURON	HON	108	59	44	155	-4	12	-2	8
IN FORT WAYNE	FWA	57	27	-11	70	1	-41	****	****	SD RAPID CITY	RAP	118	66	61	168	-13	-12	-7	-6
IN INDIANAPOLIS	IND	56	37	-15	60	24	-23	****	****	SD SIOUX FALLS	FSD	114	67	35	161	23	-12	16	-6
IN SOUTH BEND	SBN	63	36	0	92	9	-27	****	****	TN CHATTANOOGA	CHA	34	31	10	34	31	10	****	****
IA DES MOINES	DSM	78	53	20	96	44	5	****	****	TN KNOXVILLE	TYS	36	31	14	36	31	14	****	****
IA DUBUQUE	DBQ	91	55	14	150	36	0	31	0	TN MEMPHIS	MEM	27	24	12	27	24	12	****	****
IA SIOUX CITY	SUX	86	59	26	113	44	-7	****	****	TN NASHVILLE	BNA	41	34	16	41	33	16	****	****
KS CONCORDIA	CNK	67	47	30	77	35	14	****	****	TX ABILENE	ABI	9	6	9	9	6	9	****	****
KS DODGE CITY	DDC	50	36	36	53	26	26	****	****	TX AMARILLO	AMA	40	33	23	40	25	17	****	****
KS GOODLAND	GLD	69	36	40	73	-4	-22	****	****	TX AUSTIN	AUS	4	4	4	4	4	4	****	****
KS TOPEKA	TOP	55	38	-3	56	10	-12	****	****	TX BROWNSVILLE	BRV	0	0	0	0	0	0	****	****
KS WICHITA	ICT	47	34	21	47	23	18	****	****	TX CORPUS CHRISTI	CRP	0	0	0	0	0	0	****	****
KY LEXINGTON	LEX	54	38	1	55	30	1	****	****	TX DEL RIO	DRT	0	0	0	0	0	0	****	****
KY LOUISVILLE	SDF	48	37	9	48	32	6	****	****	TX EL PASO	ELP	0	0	0	0	0	0	****	****
LA BATON ROUGE	BTR	8	8	5	8	8	5	****	****	TX FORT WORTH	DFW	12	12	11	12	12	11	****	****
LA LAKE CHARLES	LCH	6	6	2	6	6													

Weather Data for the Week Ending Sept. 24, 1983

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 28	PCT. NORMAL SINCE AUG 28	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	78	54	88	40	66	-7	1.0	0	.8	2.8	67	46.0	105	91	47	0	0	3	1
MOBILE	81	59	88	47	70	-7	.4	-1.1	.4	8.4	129	66.2	123	85	47	0	0	2	0
MONTGOMERY	83	56	91	44	70	-6	.9	-.2	.7	6.8	155	57.2	167	91	47	2	0	2	0
AK ANCHORAGE	47	38	56	28	43	-4	1.1	.5	.4	1.9	86	8.6	80	83	60	0	1	5	0
BARROW	72	11	30	7	16	-12	.1	0	T	.9	180	2.4	57	98	87	0	7	2	0
FAIRBANKS	47	35	59	25	41	-1	.1	-.1	.1	1.7	170	7.2	87	79	50	0	2	2	0
JUNEAU	54	45	58	33	50	2	2.8	1.2	1.3	5.5	95	34.1	95	98	70	0	0	5	0
KODIAK	56	46	62	38	51	2	1.7	-.2	1.0	2.2	33	52.6	114	88	61	0	0	4	2
NOME	44	29	52	20	36	-4	T	-.5	T	1.1	46	8.1	61	80	49	0	4	0	0
AZ PHOENIX	99	77	103	74	88	5	.8	.7	.4	.8	160	8.9	168	77	31	7	0	5	0
PRESCOTT	78	56	87	50	67	3	6.2	5.9	5.5	7.2	424	15.3	105	91	39	0	0	1	2
TUCSON	91	68	95	64	80	0	1.3	1.0	.7	2.7	193	13.0	141	84	35	5	0	5	1
YUMA	100	81	105	77	91	5	T	0	T	0	0	1.9	100	60	34	7	0	1	0
AR FORT SMITH	80	51	93	39	65	-7	.8	0	.8	2.3	77	23.5	75	84	36	1	0	1	1
LITTLE ROCK	77	54	91	44	65	-7	.4	-.6	.2	1.5	41	28.1	76	81	48	1	0	3	0
CA BAKERSFIELD	91	68	99	64	79	3	T	-.1	T	0	0	7.9	214	77	35	4	0	0	0
EUREKA	72	55	86	49	63	6	.9	.6	.9	4.1	586	41.0	172	93	63	0	0	2	1
FRESNO	91	66	100	60	78	5	.1	.1	.1	.2	200	16.5	243	72	30	4	0	2	0
LOS ANGELES	80	67	84	64	73	4	T	0	T	0	0	71.8	260	85	61	0	0	0	0
RED BLUFF	85	60	93	57	73	-1	.7	.5	.6	1.0	200	30.6	230	69	28	3	0	2	1
SACRAMENTO	88	61	98	56	75	4	0	-.1	0	0	0	23.8	225	74	29	4	0	0	0
SAN DIEGO	81	74	87	71	78	7	T	0	T	0	0	14.6	232	86	64	0	0	2	0
SAN FRANCISCO	80	60	93	54	70	6	T	-.1	T	0	0	25.4	212	85	43	1	0	0	0
CO DENVER	74	36	86	28	55	-6	T	-.3	T	.1	8	16.6	128	68	19	0	3	0	0
GRAND JUNCTION	79	52	90	38	65	0	T	-.1	T	.4	57	10.0	167	43	17	1	0	1	0
PUEBLO	78	41	93	27	59	-5	T	-.1	T	.3	38	11.2	112	62	18	1	1	1	0
CT BRIDGEPORT	76	57	88	46	67	2	1.1	.4	1.0	1.7	55	40.4	135	87	47	0	0	2	1
HARTFORD	79	52	95	39	65	4	1.2	.3	1.0	2.2	58	28.1	86	84	38	2	0	2	1
DC WASHINGTON	78	57	92	46	67	-2	1.0	.3	1.0	3.2	103	35.6	117	77	43	2	0	1	1
FL APALACHICOLA	83	66	89	55	74	-4	1.9	-.1	1.4	7.3	87	49.7	108	87	54	0	0	0	0
DAYTONA BEACH	83	70	91	69	77	-2	3.3	1.8	1.7	8.5	135	49.4	127	90	62	1	0	5	2
JACKSONVILLE	83	65	88	56	74	-3	.5	-1.1	.4	3.6	52	46.6	104	93	58	0	0	5	0
KEY WEST	87	77	90	74	82	0	.7	-.8	.4	2.7	44	65.3	151	82	65	1	0	0	0
MIAMI	87	74	89	73	81	-1	1.8	-.1	.6	6.1	82	45.7	99	88	59	0	0	6	2
ORLANDO	88	72	92	68	80	-1	2.3	1.1	1.8	6.3	110	65.0	107	92	56	1	0	2	2
TALLAHASSEE	84	62	89	48	73	-4	.3	-1.2	.2	4.7	73	53.1	99	96	51	0	0	2	0
TAMPA	86	71	90	69	79	-2	.9	-.5	.9	7.2	114	52.0	126	98	65	1	0	3	1
WEST PALM BEACH	88	75	91	70	81	0	6.9	4.6	3.4	8.9	107	62.6	135	92	64	4	0	6	3
GA ATLANTA	76	56	87	43	66	-6	1.8	1.1	1.5	7.6	253	32.9	88	89	54	0	0	3	1
AUGUSTA	80	57	88	46	69	-5	1.3	-.5	1.1	5.5	157	40.6	116	90	49	0	0	2	1
MACON	83	58	93	47	70	-4	.5	-.2	.3	2.1	68	37.8	104	93	49	2	0	3	0
SAVANNAH	83	61	89	49	72	-3	1.2	-.1	.8	3.5	67	44.9	102	90	49	0	0	2	1
HI HILO	81	69	86	66	75	-1	4.1	2.7	2.3	10.3	161	51.6	57	91	60	0	0	7	3
HONOLULU	90	72	91	70	81	1	T	-.1	T	.3	60	2.4	16	79	44	5	0	1	0
KAHULUI	87	69	89	65	78	-1	0	-.1	0	.3	75	6.3	34	78	55	0	0	0	0
LIHUE	84	72	85	68	78	-1	.1	-.5	.1	.5	25	9.9	34	75	53	0	0	2	0
ID ROISE	72	40	80	33	56	-5	0	-.1	0	.1	25	11.8	144	63	21	0	0	0	0
LEWISTON	70	42	82	34	56	-6	.3	-.2	.3	.9	150	10.4	117	81	31	0	0	1	0
POCATELLO	73	35	80	19	54	-3	.1	-.1	.1	.2	40	11.7	146	75	22	0	3	2	0
IL CHICAGO	68	45	85	35	57	-6	1.9	1.1	1.0	5.5	172	35.7	130	90	48	0	0	3	2
MOLINE	70	45	86	33	58	-5	1.8	.9	.8	5.0	143	25.6	86	88	46	0	0	3	2
PEORIA	71	47	90	35	59	-5	2.6	1.7	1.7	4.6	131	30.3	104	85	44	1	0	3	2
QUINCY	71	49	91	36	60	-5	.7	-.3	.6	4.0	100	21.2	68	83	45	2	0	2	1
ROCKFORD	66	42	82	30	54	-7	.9	-.1	.6	3.6	100	24.9	81	97	54	0	1	2	1
SPRINGFIELD	74	48	93	33	61	-5	.2	-.5	.2	1.0	36	20.3	74	84	27	2	0	2	0
IN EVANSVILLE	77	47	94	34	62	-6	.2	-.5	.2	1.2	46	34.0	102	86	33	2	0	1	0
FORT WAYNE	73	49	92	35	61	-2	.9	-.3	.2	1.4	54	20.2	72	84	38	2	0	2	1
INDIANAPOLIS	75	48	93	35	62	-3	.3	-.3	.3	1.9	70	24.7	80	79	36	2	0	2	0
SOUTH BEND	69	50	90	38	59	-3	2.2	1.5	1.0	2.8	90	22.9	78	85	44	1	0	6	2
IA DES MOINES	67	43	88	32	55	-8	2.2	1.5	1.4	5.7	184	27.7	104	80	39	0	1	3	2
SIoux CITY	64	41	74	31	53	-10	.1	-.6	.1	1.1	46	20.6	93	80	37	0	1	2	0
WATERLOO	63	40	83	28	51	-9	1.9	1.1	1.3	3.7	109	27.6	97	92	48	0	1	2	2
KS CONCORDIA	69	44	88	33	57	-9	.8	-.1	.6	1.5	52	19.1	81	70	37	0	0	2	1
DODGE CITY	78	47	96	33	63	-4	T	-.4	T	2.8	156	20.4	112	65	27	2	0	0	0
GOODLAND	73	37	92	26	55	-7	T	-.3	T	.8	57	15.4	105	68	20	1	3	1	0
TOPEKA	75	48	94	29	62	-5	1.0	-.2	.9	2.6	76	26.7	96	88	39	1	1	3	1
WICHITA	74	50	90	37	62	-7	.7	-.2	.6	2.8	82	30.3	127	84	42	1	0	2	1
KY BOWLING GREEN	75	48	93	33	62	-7	.5	-.2	.4	1.0	33	37.3	95	93	41	2	0	2	0
LEXINGTON	74	51	90	37	62	-5	.5	-.3	.4	1.5	47	27.4	74	86	38	1	0	3	0
LOUISVILLE	75	51	92	39	63	-6	.6	-.2	.4	1.6	48	32.1	91	82	38	2	0	4	0
LA ALEXANDRIA	78	57	87	44	68	-9	3.0	2.4	1.6	4.0	174	41.2	101	91	51	0	0	4	2
BATON ROUGE	81	59	89	46	70	-7	2.3	1.3	1.2	4.3	100	61.8	139	93	48	0	0	4	2
LAKE CHARLES	80	61	88	48	71	-7	4.1	2.9	2.1	8.7	174	48.4	116	92	54	0	0	4	2
NEW ORLEANS	81	63	89	55	72	-5	.9	-.4	.5	5.9	104	64.3	135	83	49	0	0	4	1

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

+100 = NORMAL & ACTUAL NEAR THE SAME

Weather Data for the Week Ending Sept. 24, 1983

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 28	PCT. NORMAL SINCE AUG 28	TOTAL, IN., SINCE JAN. 1	PCT. NORMAL SINCE JAN. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
DAYTON	71	47	90	35	59	-6	.6	.1	.5	1.3	54	25.5	89	84	45	1	0	2	1
TOLEDO	71	46	90	31	59	-3	.7	.1	.5	1.9	73	22.5	90	93	44	2	1	4	0
YOUNGSTOWN	71	49	85	35	60	-1	1.3	.6	1.0	5.1	176	27.2	92	82	49	0	0	3	1
OK OKLAHOMA CITY	79	53	95	39	66	-6	.5	.4	.5	.9	28	23.4	91	78	36	1	0	1	0
TULSA	80	55	94	42	68	-4	1.0	.1	1.0	2.3	58	22.7	74	82	38	1	0	1	0
OR ASTORIA	69	47	79	36	58	0	.2	.6	.2	2.9	112	50.9	128	88	48	0	0	1	0
BURNS	70	33	78	20	51	-6	T	.1	T	.1	20	11.5	149	11	1	4	1	0	
MEDFORD	78	48	88	36	63	-1	2.0	1.8	1.9	3.1	443	17.3	145	86	36	0	0	2	1
PENDLETON	68	41	78	35	55	-7	.4	.3	.4	.4	100	9.0	118	84	30	0	0	1	0
PORTLAND	73	50	79	42	62	0	T	.4	T	2.6	186	31.4	139	77	40	0	0	1	1
SALEM	76	46	85	39	61	1	T	.4	T	2.3	177	37.4	156	78	33	0	0	0	0
PA ALLENTOWN	76	49	93	39	62	-1	.9	0	.9	1.5	38	33.6	101	85	38	2	0	1	1
ERIE	73	55	88	44	64	3	3.6	2.7	2.0	5.4	150	32.0	110	82	52	0	0	4	2
HARRISBURG	75	49	92	40	62	-3	.9	.1	.9	1.3	39	31.3	106	82	35	2	0	1	1
PHILADELPHIA	76	53	92	40	65	-2	2.5	1.7	2.5	4.4	129	36.8	117	85	40	2	0	1	1
PITTSBURGH	71	47	85	34	59	-4	.3	.3	.3	3.3	122	28.7	98	80	43	0	0	2	0
SCRANTON	74	50	91	39	62	1	1.8	1.0	1.8	2.5	78	30.4	85	85	65	2	0	1	1
RI PROVIDENCE	79	58	93	48	69	7	1.2	.4	1.1	1.9	58	43.3	133	77	36	2	0	2	1
SC CHARLESTON	81	62	88	50	72	-3	.7	.3	.6	3.9	80	44.5	101	92	57	0	0	2	1
COLUMBIA	81	57	89	43	69	-4	.4	.5	.3	3.4	81	33.1	83	94	47	0	0	2	0
FLORNCF	80	59	89	47	69	-4	.4	.5	.7	2.4	63	39.4	111	95	50	0	0	2	0
GREENVILLE	74	51	84	40	63	-7	.4	.6	.3	3.6	90	37.4	94	92	49	0	0	2	0
SD BRFDEN	60	36	81	26	48	-9	T	.3	T	.8	62	19.1	123	81	35	0	2	1	0
HURON	61	37	78	31	49	-9	.2	.1	.2	2.2	157	14.5	90	87	36	0	2	1	0
RAPID CITY	63	34	81	25	48	-10	.1	.2	T	.2	18	12.0	82	60	26	0	4	2	0
SIoux FALLS	61	36	75	28	49	-10	.1	.6	.1	3.0	103	22.1	102	96	43	0	4	2	0
TN CHATTANOOGA	77	52	90	35	65	-6	.3	.7	.2	1.4	41	32.0	70	96	42	1	0	3	0
KNOXVILLE	78	50	91	37	64	-6	.6	.1	.6	1.4	50	29.2	80	97	4	1	0	2	1
MEMPHIS	77	54	93	42	65	-7	.5	.3	.4	1.5	43	36.5	89	88	44	1	0	3	0
NASHVILLE	78	50	93	36	64	-7	.4	.5	.2	.7	20	34.2	90	85	31	2	0	0	0
TX ABILENE	84	57	93	42	70	-4	0	.7	0	.9	31	13.6	72	64	26	2	0	0	0
AMARILLO	81	48	98	31	64	-4	T	.3	T	.4	22	10.9	64	66	20	3	1	1	0
AUSTIN	82	59	89	49	70	-8	2.1	1.2	1.1	2.0	88	28.3	113	80	61	0	0	2	2
BEAUMONT	79	64	88	53	72	-7	3.1	1.7	1.9	10.4	179	63.9	156	94	60	0	0	4	2
BROWNSVILLE	87	70	93	59	79	-2	2.3	1.0	2.7	7.1	148	22.8	118	91	58	3	0	2	1
CORPUS CHRISTI	84	65	91	56	74	-6	.3	1.2	.2	7.2	124	30.9	126	91	57	3	0	2	0
DFI. RIO	84	63	92	55	74	-6	.2	.5	.2	.6	24	6.9	60	78	36	2	0	1	0
EL PASO	89	61	95	53	75	3	T	.3	T	.4	31	5.0	78	57	24	4	0	0	0
FORT WORTH	81	56	91	45	68	-9	.1	.7	.1	.2	7	24.2	101	70	37	1	0	2	0
GALVESTON	79	65	89	56	72	-7	2.8	1.5	1.8	11.7	217	46.3	147	84	56	0	0	4	2
HOUSTON	81	59	91	49	70	-7	5.1	3.9	3.4	7.3	155	44.8	127	91	40	1	0	4	2
LUBBOCK	85	50	95	33	68	-2	0	.5	0	.4	20	8.6	56	62	24	2	0	0	0
MIDLAND	86	56	100	40	71	-2	0	.5	0	.4	21	3.4	30	63	24	2	0	0	0
SAN ANGELO	84	56	91	44	70	-5	0	.7	0	0	10.0	67	69	27	2	0	0	0	0
SAN ANTONIO	82	59	90	46	71	-7	2.7	1.8	2.4	3.9	111	21.2	93	79	41	0	0	2	1
VICTORIA	82	60	90	51	71	-8	3.3	1.8	1.6	4.3	74	31.4	106	95	59	1	0	4	3
WACO	81	55	89	40	68	-9	.2	.6	.2	.6	21	19.2	78	87	47	0	0	3	0
WICHITA FALLS	84	55	99	38	70	-5	T	.8	T	0	0	15.7	72	75	26	1	0	0	0
UT BLANDING	73	46	82	35	59	-2	.4	.2	.4	1.3	163	10.7	141	73	33	0	0	2	1
CEDAR CITY	79	46	86	34	63	1	T	.2	T	0	0	10.9	136	64	22	0	0	1	0
SALT LAKE CITY	75	47	87	35	61	-2	T	.2	T	.6	75	15.7	139	60	27	0	0	1	0
VT BURLINGTON	73	52	88	42	62	5	3.3	2.6	3.1	4.0	129	34.0	131	87	46	0	0	3	1
VA NORFOLK	77	59	89	50	68	-3	1.3	.3	1.3	5.7	136	34.5	96	86	43	0	0	2	1
RICHMOND	77	50	92	37	64	-5	.9	.2	.9	1.8	53	28.1	84	99	43	2	0	2	1
ROANOKE	75	47	89	34	61	-5	.4	.4	.4	1.2	39	30.2	99	93	40	0	0	1	0
WA COLVILLE	65	37	75	30	51	-5	.2	0	.2	.9	100	19.3	160	92	49	0	2	1	0
QUILLAYUTE	69	43	79	35	56	0	.7	.7	.7	7.3	170	27.5	125	92	30	0	0	1	1
SEATTLE-TACOMA	68	49	77	42	58	-1	.6	.1	.6	3.6	212	26.8	118	84	41	0	0	1	1
SPOKANE	66	40	76	32	53	-5	.3	.1	.3	.8	114	14.1	122	78	30	0	2	1	0
YAKIMA	70	38	81	32	54	-6	.3	.2	.3	.7	175	8.1	169	79	31	0	1	1	0
WV BECKLEY	69	45	85	30	57	-4	.6	.2	.5	1.1	34	25.3	76	95	46	0	1	2	1
CHARLESTON	77	48	93	34	62	-4	.8	.1	.8	1.3	43	28.0	83	88	37	2	0	2	1
HUNTINGTON	77	48	92	31	63	-4	.4	.1	.3	.8	26	25.4	78	88	35	2	1	2	0
PARKERSBURG	73	51	87	37	62	-3	.3	.3	.3	4.4	163	30.2	89	92	45	0	0	1	0
WI CPEEN RAY	58	39	72	34	49	-8	1.3	.6	.7	3.9	126	24.4	107	96	60	0	0	5	1
LA CROSSE	59	41	71	32	50	-10	2.8	2.0	2.7	4.4	129	22.1	84	97	59	0	1	2	1
MADISON	64	38	77	31	51	-7	.4	.3	.2	2.9	100	23.3	91	95	50	0	0	3	0
MILWAUKEE	65	44	82	35	55	-6	.7	.1	.6	2.4	89	27.6	113	90	53	0	0	3	1
WY WAPSAU	55	39	69	34	47	-9	2.0	1.1	1.5	6.2	163	23.0	85	95	56	0	0	5	1
CASPER	66	29	83	16	47	-9	T	.2	T	0	0	13.6	148	76	25	0	5	1	0
CHEYENNE	67	30	77	20	49	-7	T	.2	T	.7	70	17.4	147	78	20	0	4	1	0
LANDER	69	34	80	23	52	-5	.1	.2	.1	.5	63	11.1	106	69	27	0	3	1	0
SHERIDAN	62	33	83	23	48	-8	.1	0	.2	.4	33	5.4	43	78	31	0	4	2	0
PR SAN JUAN	89	78	91	76	83	1	1.7	.3	.9	2.5	45	29.1	74	90	70	3	0	7	2

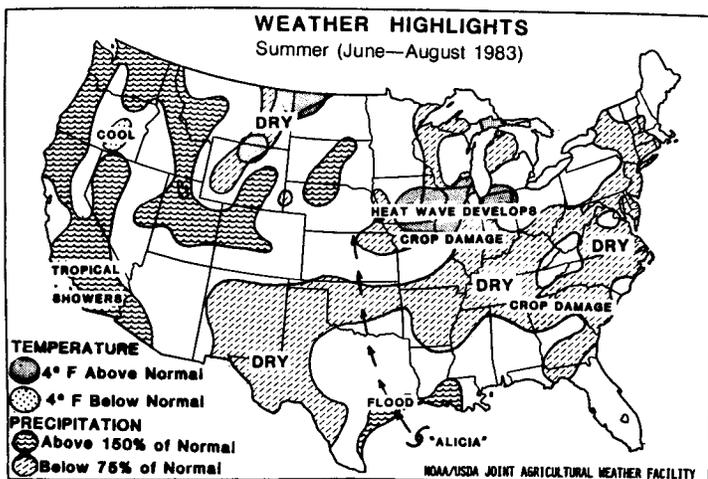
BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS.

Weather Data for the Week Ending Sept. 24, 1983

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 28	PCT. NORMAL SINCE AUG 28	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
ME SHREVEPORT	80	56	91	43	68	-8	1.7	.9	.8	3.0	100	36.8	109	93	48	1	0	0	2
ME SHREVEPORT	68	46	83	35	57	5	1.5	.7	1.4	3.1	94	31.2	115	96	55	0	0	3	1
ME PORTLAND	72	52	87	41	62	5	1.3	.5	1.2	2.3	74	40.7	136	96	52	0	0	1	1
MD BALTIMORE	77	51	94	39	64	-3	.8	0	.8	1.4	40	35.3	109	85	38	2	0	2	1
MD SALESBURY	79	53	93	40	66	-1	1.2	.3	1.1	5.5	141	37.9	106	98	45	2	0	2	1
MA BOSTON	80	61	97	52	71	8	.8	0	.7	2.2	67	35.8	114	85	44	2	0	2	1
MA CHATHAM	71	58	79	50	65	4	.7	.2	.7	1.8	50	41.5	123	87	70	0	0	1	1
MI ALPENA	64	40	76	33	52	-3	1.6	.9	.7	3.0	100	25.6	110	99	61	0	0	4	2
MI DETROIT	71	47	90	35	59	-2	1.2	.7	1.0	3.1	141	26.9	110	87	45	1	0	4	1
MI FLINT	69	47	90	34	58	-2	2.5	2.1	1.7	4.3	187	24.5	103	90	48	1	0	4	2
MI GRAND RAPIDS	65	47	78	37	56	-4	2.1	1.4	.7	4.7	162	28.5	108	90	59	0	0	5	2
MI HOUGHTON LAKE	61	43	75	35	52	-4	3.1	2.5	1.3	4.5	167	22.3	104	94	65	0	0	0	0
MI LANSING	66	45	86	33	56	-4	1.6	1.1	1.0	4.2	175	26.5	112	96	55	0	0	4	2
MI MARQUETTE	56	38	69	31	47	-5	2.3	1.4	1.4	5.9	164	31.7	112	95	53	0	1	6	2
MI MUSKEGON	64	47	78	35	56	-4	2.7	2.1	1.6	6.4	237	23.0	96	89	57	0	0	5	3
MI SAULT STE. MARIE	60	40	66	30	50	-3	1.9	1.0	.9	3.8	103	24.7	100	95	65	0	1	5	2
MN ALEXANDRIA	57	39	71	33	48	-8	.1	-.4	.1	2.4	100	17.3	82	90	47	0	0	2	0
MN DULUTH	54	39	64	30	46	-6	.1	-.7	T	4.2	127	20.8	84	89	55	0	1	3	0
MN INT'L FALLS	53	36	65	27	45	-6	.2	-.5	.1	4.5	150	19.2	93	96	60	0	2	4	0
MN MINNEAPOLIS	58	42	71	30	50	-9	.2	-.3	.2	3.7	154	29.6	133	75	50	0	1	3	0
MN ROCHESTER	56	39	67	31	47	-10	2.6	1.9	2.5	5.5	183	27.4	114	91	55	0	1	2	1
MS GREENWOOD	79	53	91	40	66	-8	.6	-.2	.3	1.3	42	45.6	113	88	43	1	0	2	0
MS JACKSON	80	54	92	41	67	-8	1.1	.2	.5	2.7	79	56.8	139	100	46	1	0	4	1
MS MERIDIAN	79	54	88	41	67	-8	1.4	-.6	1.2	4.3	130	54.3	132	99	51	0	0	3	1
MO CAPE GIRARDEAU	75	50	90	37	63	-1	.6	-.3	.5	.7	19	28.6	81	93	45	1	0	2	0
MO COLUMBIA	72	47	90	34	60	-7	.6	-.4	.6	4.1	121	28.5	100	87	42	1	0	1	1
MO KANSAS CITY	75	50	92	34	62	-5	.9	-.1	.9	2.0	51	23.5	79	88	40	1	0	2	1
MO SAINT LOUIS	75	52	95	37	63	-5	.3	-.4	.3	.9	36	27.5	103	86	40	2	0	1	0
MO SPRINGFIELD	75	49	92	35	62	-6	.7	-.4	.6	3.6	92	30.4	99	83	43	1	0	2	1
MT BILLINGS	59	36	81	26	48	-10	.9	-.6	.5	1.3	108	8.8	73	78	42	0	2	2	1
MT GLASGOW	60	34	78	25	47	-8	T	-.2	T	.7	78	6.6	63	63	29	0	2	0	0
MT GREAT FALLS	59	35	77	26	47	-8	.8	-.5	.6	1.6	145	12.9	100	81	39	0	3	0	1
MT HAVRE	61	34	81	27	47	-7	T	-.2	T	.5	63	11.1	109	77	27	0	4	0	0
MT HELENA	58	31	75	20	45	-9	.8	-.6	.7	1.2	133	12.3	129	84	36	0	5	2	1
MT KALISPELL	61	28	73	21	44	-8	.1	-.2	.1	1.4	108	14.1	112	90	33	0	6	1	0
MT MILES CITY	58	35	79	28	47	-11	1.0	-.8	.7	1.0	91	6.9	57	85	35	0	4	2	1
MT MISSOULA	58	31	72	24	44	-9	.4	-.2	.3	1.3	144	13.7	135	97	43	0	4	2	0
NE GRAND ISLAND	70	41	93	33	56	-7	.2	-.3	.2	.6	26	21.2	102	76	28	1	0	2	0
NE LINCOLN	71	43	92	31	57	-6	.7	-.1	.7	1.0	36	21.7	93	87	34	1	1	2	1
NE NORFOLK	66	39	83	27	52	-9	.1	-.4	.1	.5	24	21.8	101	80	32	0	2	2	0
NE NORTH PLATTE	69	33	89	24	51	-9	.1	-.3	T	.1	6	16.5	94	71	24	0	4	2	0
NE OMAHA	67	43	91	34	55	-7	1.0	-.3	.9	2.0	61	23.6	90	83	45	1	0	3	1
NE SCOTTSBLUFF	68	37	87	19	50	-9	T	-.3	T	.4	36	12.6	98	71	22	0	4	1	0
NE VALENTINE	65	34	83	26	49	-10	.1	-.2	.1	1.2	80	21.8	133	76	27	0	3	1	0
NV FLY	74	36	82	23	55	0	T	-.2	T	0	0	11.1	161	72	22	0	2	0	0
NV LAS VEGAS	91	70	101	62	81	2	0	-.1	0	0	0	3.8	109	37	15	4	0	0	0
NV RENO	73	43	90	36	58	0	.1	-.1	.1	.3	100	7.7	156	77	30	1	0	1	0
NV WINNEMUCA	74	39	85	28	56	-1	T	0	T	.1	33	7.6	129	60	21	0	1	1	0
NH CONCORD	77	49	92	33	63	6	1.1	.4	.9	1.9	63	32.0	120	95	40	2	0	2	1
NJ ATLANTIC CITY	76	52	91	39	64	-1	1.2	-.6	1.2	3.0	100	31.9	98	92	45	1	0	2	1
NM ALBUQUERQUE	83	53	90	39	68	1	T	-.1	T	.6	75	5.4	83	68	22	2	0	0	0
NM CLOVIS	83	49	95	35	66	-1	T	-.4	T	.4	22	7.2	48	61	22	2	0	0	0
NM ROSWELL	86	56	97	45	71	0	T	-.3	T	.3	19	4.5	56	49	23	2	0	1	0
NY ALBANY	73	50	89	38	62	2	2.0	1.2	1.9	2.4	80	34.2	131	98	51	0	0	2	1
NY BINGHAMTON	71	50	89	37	61	2	1.4	-.6	1.4	2.3	74	30.6	110	87	42	0	0	3	1
NY BUFFALO	71	51	85	36	61	0	1.0	-.3	.7	2.3	72	22.4	80	87	47	0	0	4	1
NY NEW YORK	76	58	92	49	67	1	1.2	-.5	1.2	2.0	61	40.1	125	82	43	2	0	2	1
NY ROCHESTER	73	50	88	38	62	1	1.0	-.4	.6	2.7	100	22.7	94	94	50	0	0	4	1
NY SYRACUSE	71	51	86	40	61	1	1.8	1.1	1.1	3.4	110	26.5	83	95	48	0	0	3	2
NC ASHEVILLE	73	46	84	35	60	-6	1.5	-.6	1.0	6.0	162	35.6	95	92	44	0	0	2	2
NC CHARLOTTE	77	54	89	41	66	-5	.3	-.6	.1	.8	23	27.6	82	93	43	0	0	2	0
NC GREENSBORO	76	50	87	38	63	-5	.3	-.5	.2	2.0	57	31.8	95	85	43	0	0	2	0
NC HATTERAS	78	58	86	48	68	-5	1.4	-.1	1.2	6.2	113	45.0	108	93	54	0	0	2	1
NC NEW BERN	81	58	87	47	70	-3	.4	-.9	.4	1.8	32	40.6	94	93	45	0	0	2	0
NC RALFICH	79	52	90	37	66	-.4	.5	-.2	.5	1.5	47	32.5	98	93	41	1	0	1	1
NC WILMINGTON	80	59	89	47	70	-.4	1.0	-.3	.9	5.6	98	47.5	107	88	49	0	0	2	1
ND BISMARCK	59	33	80	23	46	-9	.1	-.2	.1	.8	67	11.0	80	76	29	0	2	1	0
ND FARGO	55	37	75	28	46	-10	T	-.4	T	3.1	172	15.9	92	77	44	0	2	1	0
ND GRAND FORKS	57	38	77	32	48	-6	T	-.4	T	2.8	140	17.7	113	78	42	0	1	1	0
ND WILLISTON	62	30	84	19	46	-8	T	-.3	T	.3	21	7.5	63	73	27	0	3	0	0
OH AKRON-CANTON	71	50	86	37	61														

Summer Weather Review

June, July, and August

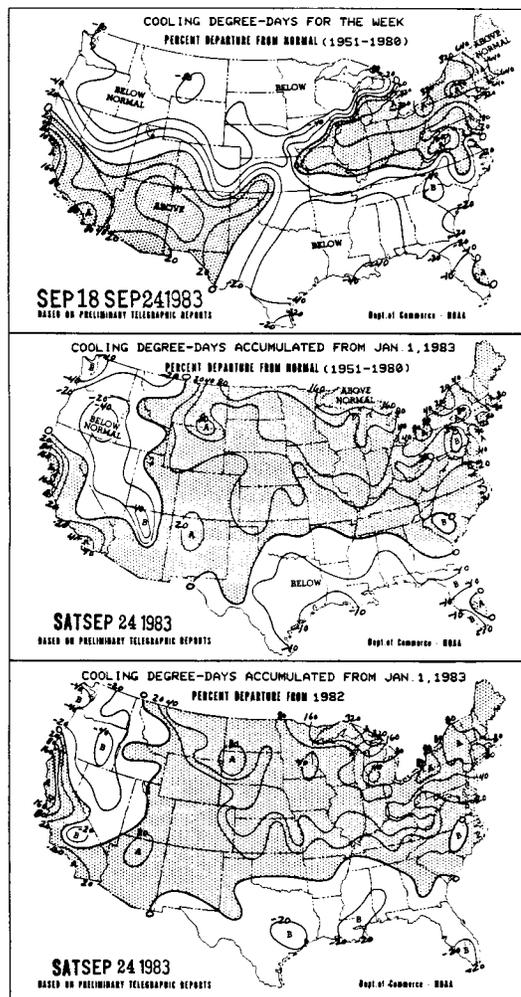


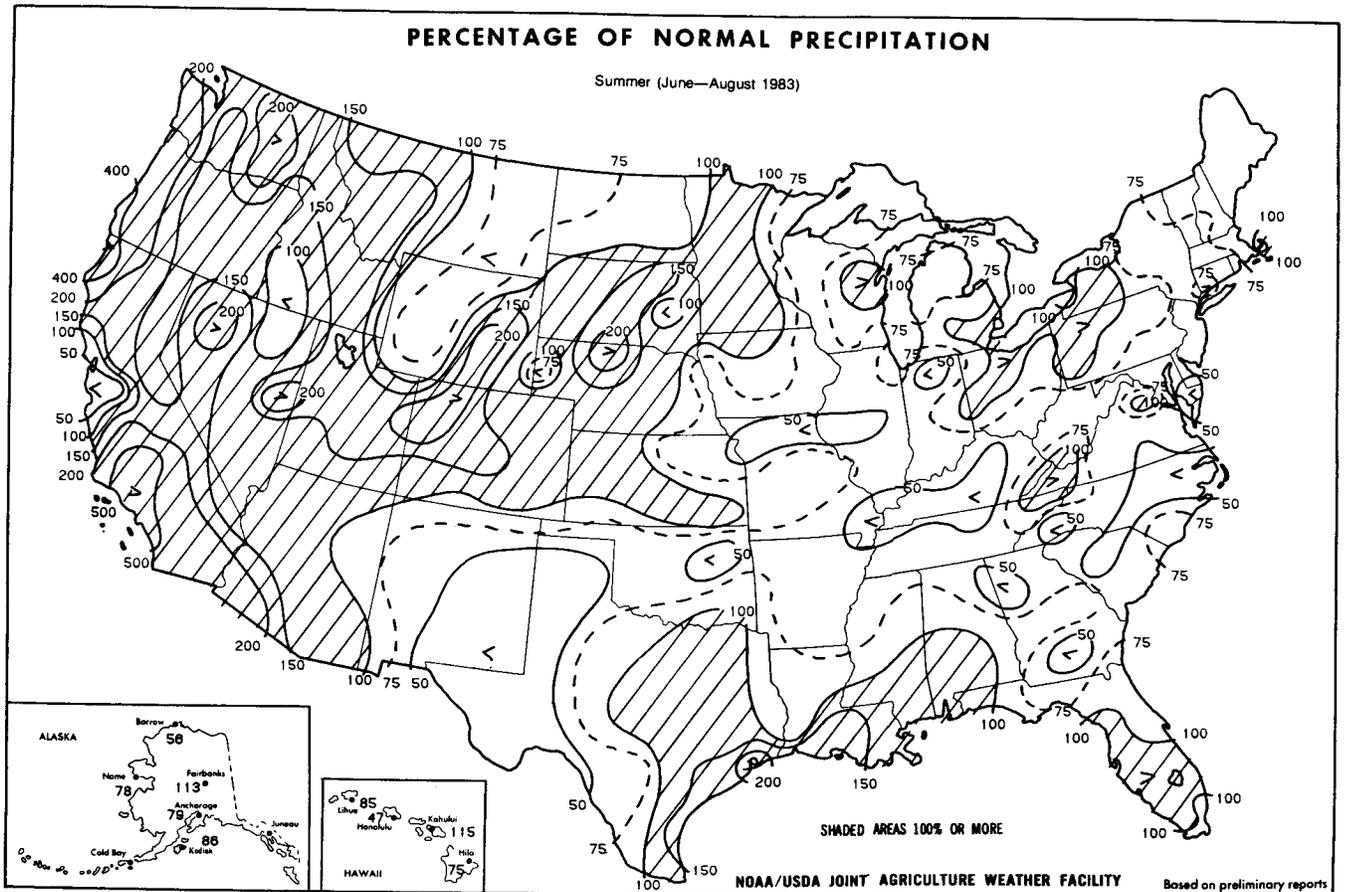
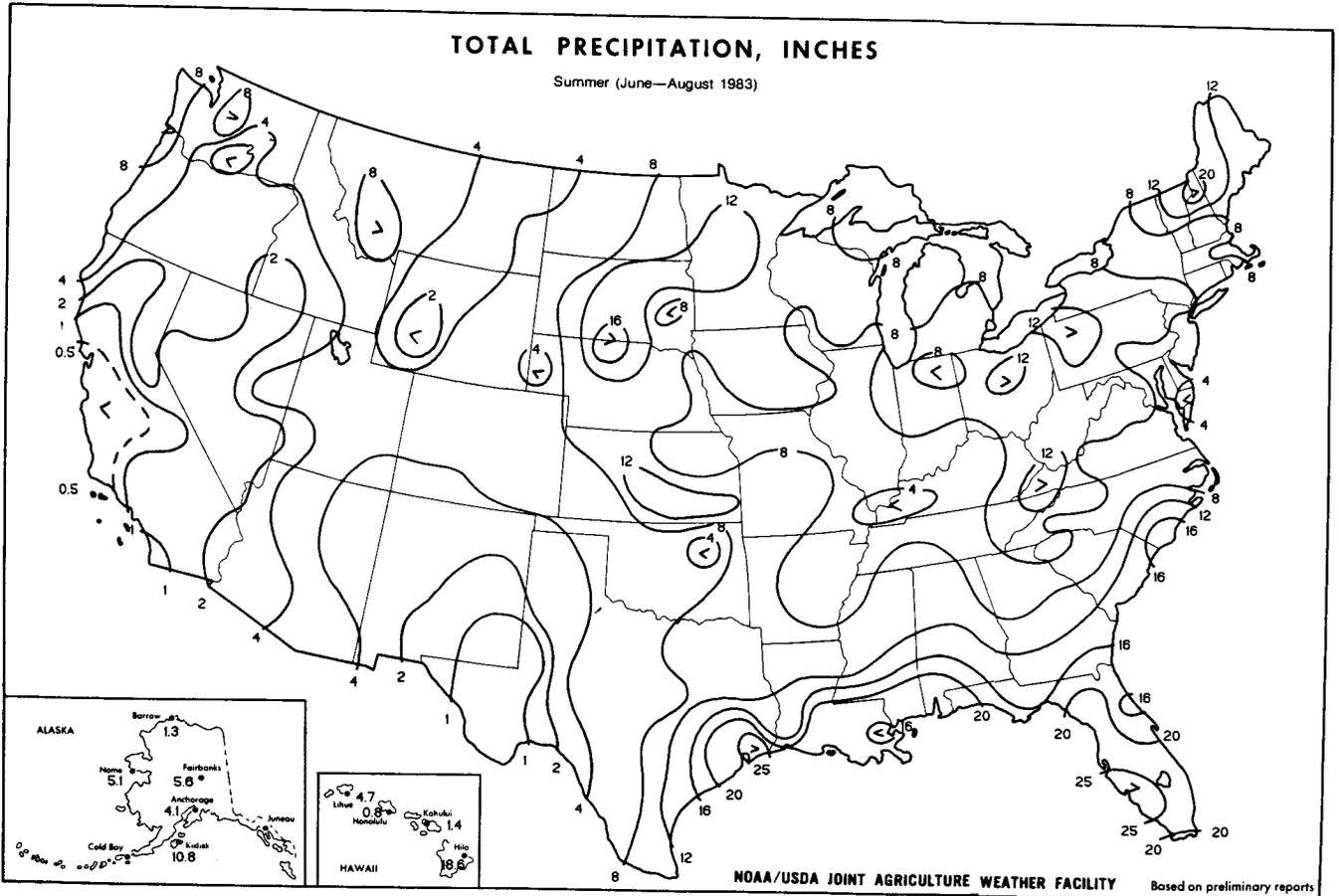
AUGUST...A heat wave, centered in the central and northern Plains, persisted throughout the month. Average temperatures for the month were 8-10° warmer than normal in the central and northern Plains, and 4-7° warmer in the eastern end of the Corn Belt. The unusually warm temperatures and scarcity of rain severely stressed crops throughout the East. Most of the western portion of the Nation had above-normal rain, but most of the area east of the Rockies measured well-below normal amounts. In the third week of the month Hurricane Alicia crashed onto the southeastern coast of Texas causing severe damage, but then spread welcome rain northward. An area from southwestern Iowa to central Illinois, the upper Mississippi Delta, and to northern Alabama had less than 25 percent of normal rain. As the month ended showers and thunderstorms were increasing in frequency in the Southeast, bringing some relief to that very dry area.

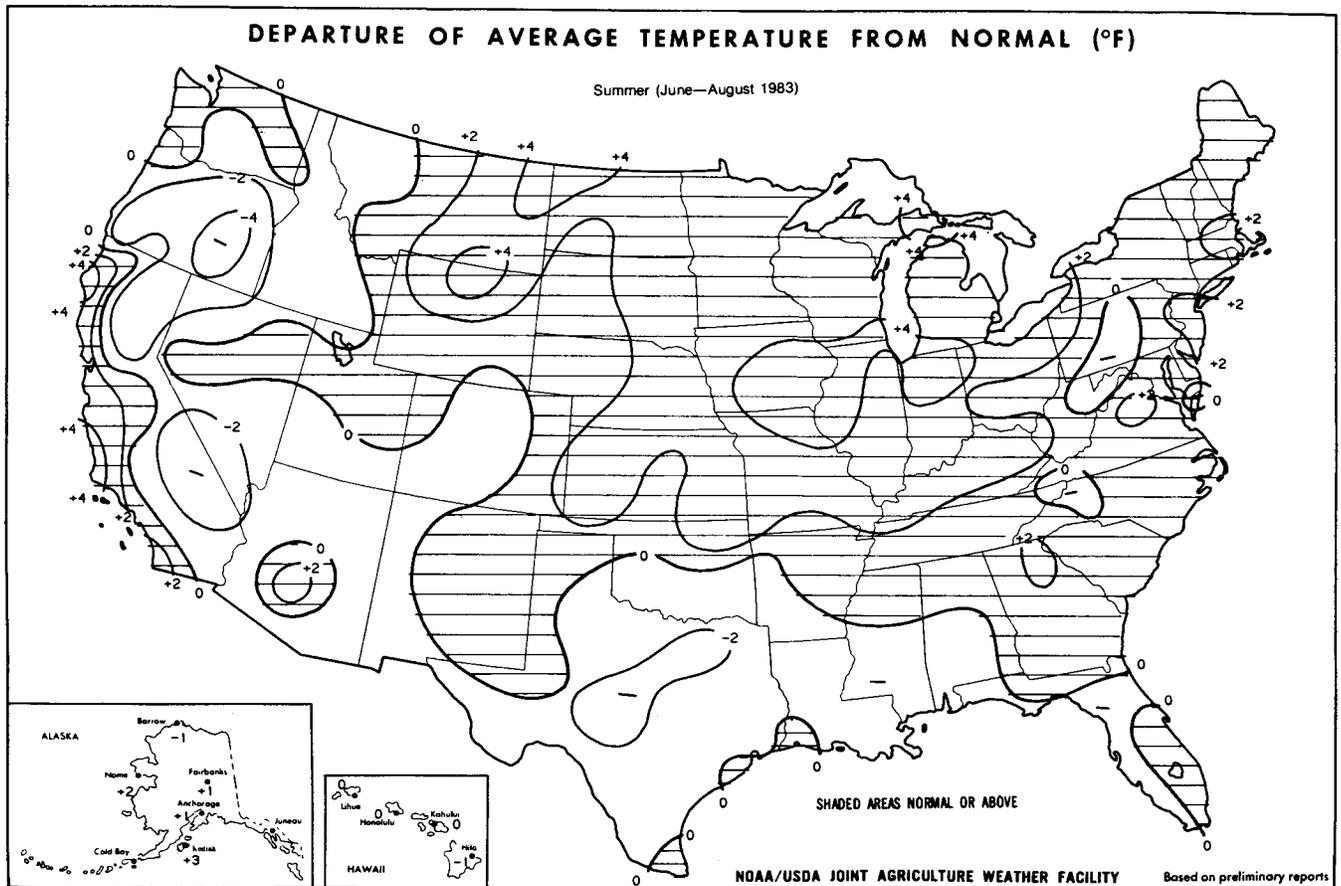
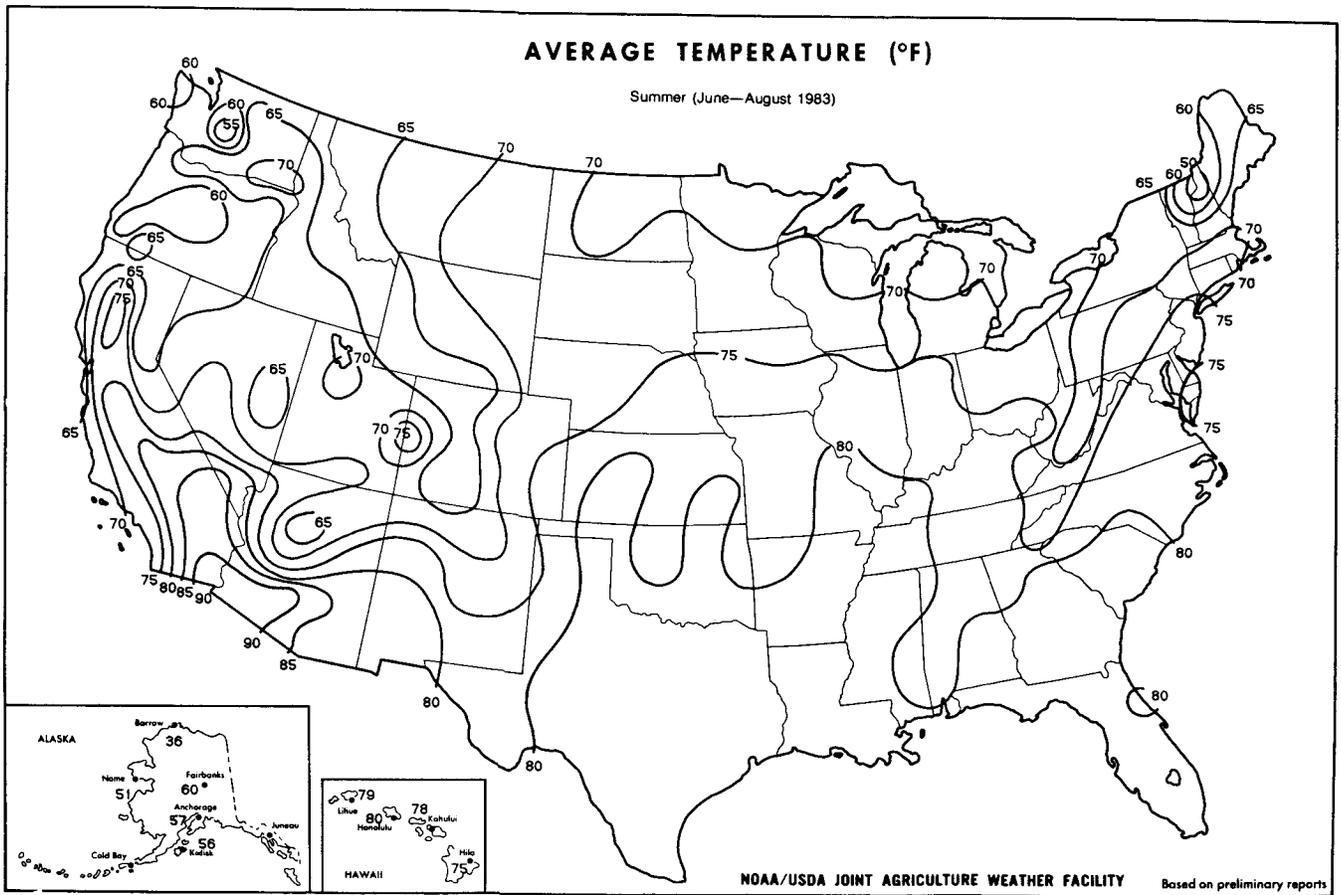
HIGHLIGHTS: The summer season began with a continuation of the cool, wet weather of spring. Development of winter grains, and emergence and growth of corn and soybeans was slowed. However, warming began over the northeastern quarter of the Nation in the middle of June and spread throughout the East to become a record-breaking heat wave. Winter grains matured in good shape but hot, dry weather during the critical flowering and reproduction time of corn and soybeans sharply reduced yields and damaged other crops in the East. Most of the Corn Belt, the upper Mississippi Delta, the Tennessee and Ohio Valleys, and the East Coast States had less than normal rain. Much of this area had less than half the normal amount. Afternoon temperatures in the high nineties over much of this area increased the demand for moisture, and temperatures in excess of 100° in much of the Plains literally scorched some crops.

JUNE...The month began with temperatures much cooler than normal over most of the Nation east of the Rockies. Development of winter grains and emergence of newly planted corn and soybeans was slowed. However, the northeastern quarter of the Nation began warming at midmonth and gave crops in the Corn Belt a boost. Cool weather continued to slow development of winter grains in the Plains. Showers and thunderstorms were frequent over most of the Nation. Moderate showers and an unusually heavy snowmelt through the western mountains caused serious flooding. Heavy rain in the lower Mississippi Delta and along the gulf coast slowed planting and caused local flooding.

JULY...Hot, dry weather east of the Rockies stressed corn and soybeans but hastened the maturity of winter grains through the Plains. Average temperatures were 4-6° warmer than normal from Iowa to Ohio, in northern North Dakota, and northward into Canada. Afternoon temperatures were unusually high during the last two weeks of the month, after corn and soybeans began blooming. Temperatures in the high nineties stressed corn at a very critical time. Most of the area east of the Rockies had well-below normal rain. The southern part of the Corn Belt had less than half the normal amount of rain. Parts of the Southeast had less than 25 percent of normal precipitation and were becoming very dry. Rain during the latter part of the month in Ohio and southern Ontario, Canada, was beneficial to corn.







National Agricultural Summary

September 19 to 25

HIGHLIGHTS: Cold temperatures pushed southeastward across the Nation. Scattered frosts appeared from the northern Plains into the Northeast, but damage was minimal because of the advanced maturity of most crops. Rains benefited newly-seeded small grains across the eastern half of the Nation, but dry soils continued to hamper progress in the Great Plains. Soil moisture supplies were short to adequate in most regions, except from Tennessee to West Virginia, and in portions of Texas and New Mexico where short to very short supplies were reported. Farmers had 3 to 6 days available for fieldwork. Spring wheat combining was completed. Winter wheat seeding advanced to 31% completion, equaling last year. Corn was 12% harvested, 4 points ahead of normal. Freezing temperatures caused minimal damage and should promote fast drying and earlier harvesting across northern areas. Soybeans were 7% harvested. Rain aided development of the crop, while cooler temperatures slowed development. Sorghum harvesting was 35% complete, 1 point behind normal. Freezing temperatures caused some damage in portions of the central and southern Plains. Cotton picking reached 8% completion, 3 percentage points behind last year and the average. The rice harvest was 45% complete. Tobacco harvesting and marketing were active. Fall apple picking gained momentum. Recent rainfall greened pastures, but cool temperatures limited growth. Livestock were in fair to good condition as supplemental feeding continued.

SMALL GRAINS: The 1984 winter wheat crop was 31% seeded, equal to last year but behind the 39% average for this date. Seeding was underway in all States except California where producers normally start at a later date. Seeding ranged from 5% complete in Illinois and Ohio, to 80% complete in Nebraska. The Kansas crop was 25% planted. Wind caused considerable blowing of soils and some replanting will be necessary. Showers across eastern Oklahoma benefited seeded fields; producers had planted 20% of the crop. Dry conditions continued to delay planting in Texas; only 19% was seeded, compared to the average of 35% for this date.

CORN: In the 17 major producing States, 99% of the corn was dented, 84% was mature, and 12% had been harvested. A year ago, 91% was dented, 63% was mature, and 7% had been harvested. Freezing temperatures across the northern Plains and into portions of the western Corn Belt caused only limited damage because of the advanced maturity of the crop. However, the freeze should promote fast drying and earlier harvesting in these areas. High winds caused some stalk breakage from the central Plains into Minnesota. Harvesting was delayed by showers across the Corn Belt, but progress remained ahead of schedule. Harvesting was underway in all States except Colorado, Pennsylvania, and Wisconsin. Progress ranged from 3% complete in Michigan to 81% complete in Georgia.

SOYBEANS: Rain continued to benefit soybeans across the eastern half of the Nation, but cooler temperatures slowed crop development in most producing areas. Continued, dry conditions in Kentucky and Tennessee caused small beans and some poorly filled pods. In the 18 major producing States, 57% of the soybeans were dropping leaves and 7% had been combined. A year earlier, 48% were dropping leaves and 6% had been harvested. Harvesting was active in all States except, Alabama, Georgia, North Carolina, South Carolina, and Tennessee.

In the eastern Corn Belt, producers had harvested 14% of the crop, 3 points ahead of normal, while in the western portion 7% was combined, 2 points ahead of normal.

COTTON: Cotton was in fair to poor condition. Cool temperatures slowed development eastward from Texas. Freezing temperatures on the northern High Plains caused some damage which may result in reduced yields. In the 14 major producing States, bolls were opening on 57% of the acreage, equaling the average. Harvesting was 8% complete, 3 percentage points behind both last year and the average. Picking was active in all States except California, New Mexico, North Carolina, and Oklahoma. Defoliation and picking advanced at a steady pace in Arizona.

OTHER CROPS: In the 7 major sorghum producing States, 58% of the crop was mature, 1 point behind normal. Harvesting was 35% finished, 1 point slower than normal. Harvesting was active in all producing States. Progress ranged from 1% complete in Colorado to 65% complete in Texas. Freezing temperatures damaged some sorghum in portions of the central and southern Plains; growers expect yields and quality to be affected. Conditions elsewhere were mostly fair to poor.

Rice harvesting continued to trail the average in all States except Texas where combining was complete. Stands were in mostly fair to good condition. Arkansas producers reported some lodging. In the 5 major States, combining was 45% complete, compared with the average of 53%.

Peanut digging became more widespread but was slowed by rain in most producing areas. Progress trailed normal in all States. Digging was 6% complete in Virginia, 7% in Texas, 24% in Alabama, 39% in Georgia, and 52% complete in Mississippi.

Tobacco harvesting and marketing advanced rapidly in all producing areas. Kentucky burley was 76% cut. North Carolina burley producers harvested 29% of their crop.

VEGETABLES: Summer vegetable harvests were virtually complete. Fall crop harvesting gained momentum in northern areas but scattered frosts damaged some of the tender crops in this region. Wet conditions slowed land preparation and planting in Florida. Light harvests of sweet corn, squash, and pole beans were underway. Planting continued in Texas. Frost damaged remaining peppers and cucumbers in the northern High Plains. Harvesting of broccoli, cauliflower, celery, and green peppers was active along California's central coast. Hot weather reduced lettuce supplies from the Salinas-Watsonville area.

FRUITS AND NUTS: Fall apple picking became active in the Northeast and Northwest. Florida's citrus groves were in excellent condition. However, fruit size and maturity were lagging normal. Citrus harvesting began in the Rio Grande Valley of Texas and Yuma area of Arizona. California's Valencia orange, grapefruit, and lemon harvests continued. Navel oranges were sizing nicely. The raisin crop was over 90% rolled or picked up. Growers continued picking a wide variety of fruits.

PASTURES AND RANGES: Pastures began greening after receiving additional precipitation across the eastern half of the Nation. However, cool temperatures limited growth and livestock continued receiving supplemental feed in most areas. Cattle were moved to market at a steady pace. Cold temperatures stressed livestock in the higher elevations of the Rocky Mountains and producers continued moving herds from summer grazing areas.

CROP PROGRESS

FOR WEEK ENDING SEPT 25, 1983

	CORN % DENT		
	1983	1982	AVG.
COLO	94	84	85
GA	100	100	100
ILL	100	100	100
IND	100	100	97
IOWA	100	85	95
KANS	95	90	95
KY	98	100	100
MICH	100	90	94
MINN	99	96	96
MO	100	95	90
NEBR	100	80	96
N C	100	100	100
OHIO	100	100	98
PA	87	80	84
S DAK	96	84	98
VA	98	99	100
WIS	91	76	88
17 STATES	99	91	96

THESE 17 STATES PRODUCED 93% OF THE 1982 CORN CROP.

	CORN % HARVESTED		
	1983	1982	AVG.
COLO	0	0	0
GA	81	89	82
ILL	13	8	9
IND	5	5	5
IOWA	15	1	4
KANS	15	10	20
KY	15	17	19
MICH	3	2	2
MINN	6	0	1
MO	37	18	22
NEBR	6	0	1
N C	55	70	67
OHIO	10	10	5
PA	0	0	2
S DAK	6	0	3
VA	38	33	36
WIS	0	0	0
17 STATES	12	7	8

THESE 17 STATES PRODUCED 93% OF THE 1982 CORN CROP.

	CORN % MATURE		
	1983	1982	AVG.
COLO	55	29	26
GA	100	100	100
ILL	92	92	88
IND	80	85	65
IOWA	97	46	76
KANS	70	60	75
KY	70	95	90
MICH	80	70	54
MINN	70	44	56
MO	90	72	67
NEBR	85	20	50
N C	99	100	97
OHIO	80	90	70
PA	30	23	29
S DAK	87	65	85
VA	90	92	93
WIS	80	53	81
17 STATES	84	63	71

THESE 17 STATES PRODUCED 93% OF THE 1982 CORN CROP.

	WINTER WHEAT % PLANTED		
	1983	1982	AVG.
CALIF	0	0	0
COLO	78	68	80
IDAHO	45	38	36
ILL	5	7	10
IND	9	9	9
KANS	25	30	40
MO	9	7	12
MONT	45	20	40
NEBR	80	70	80
OHIO	5	10	10
OKLA	20	15	30
OREG	13	20	24
S DAK	90	86	85
TEX	19	28	35
WASH	52	51	47
15 STATES	31	31	39

THESE 15 STATES PRODUCED 80% OF THE 1982 WINTER WHEAT CROP.

	SORGHUM % COLORING		
	1983	1982	AVG.
COLO	83	78	77
KANS	75	60	85
MO	100	100	97
NEBR	99	70	90
OKLA	95	90	97
S DAK	95	86	93
TEX	91	91	93
7 STATES	88	80	90

THESE 7 STATES PRODUCED 90% OF THE 1982 SORGHUM CROP.

	SORGHUM % MATURE		
	1983	1982	AVG.
COLO	44	22	23
KANS	40	15	40
MO	81	66	61
NEBR	65	4	45
OKLA	25	45	65
S DAK	76	48	53
TEX	67	73	77
7 STATES	58	44	59

THESE 7 STATES PRODUCED 90% OF THE 1982 SORGHUM CROP.

	SORGHUM % HARVESTED		
	1983	1982	AVG.
COLO	1	0	0
KANS	10	3	10
MO	41	29	23
NEBR	6	0	3
OKLA	10	10	10
S DAK	2	0	5
TEX	65	68	71
7 STATES	35	33	36

THESE 7 STATES PRODUCED 90% OF THE 1982 SORGHUM CROP.

	RICE % HARVESTED		
	1983	1982	AVG.
ARK	32	45	38
CALIF	2	2	9
LA	78	91	91
MISS	21	45	50
TEX	100	100	100
5 STATES	45	55	53

THESE 5 STATES PRODUCED 98% OF THE 1982 RICE CROP.

	SOYBEANS % DROPPING LEAVES		
	1983	1982	AVG.
ALA	21	25	29
ARK	21	16	22
GA	23	34	29
ILL	80	76	71
IND	85	85	65
IOWA	80	36	60
KANS	65	25	50
KY	34	39	34
LA	32	36	34
MICH	85	80	66
MINN	87	74	83
MISS	37	60	55
MO	56	39	42
NEBR	65	15	55
N C	5	4	4
OHIO	75	90	65
S C	6	10	14
TENN	30	27	21
18 STATES	57	48	50

THESE 18 STATES PRODUCED 94% OF THE 1982 SOYBEAN CROP.

	SOYBEANS % HARVESTED		
	1983	1982	AVG.
ALA	0	0	0
ARK	1	2	2
GA	0	1	1
ILL	17	18	16
IND	10	10	5
IOWA	7	1	5
KANS	4	1	3
KY	3	4	5
LA	2	8	6
MICH	2	1	1
MINN	6	1	4
MISS	1	3	5
MO	9	3	5
NEBR	5	0	4
N C	0	0	0
OHIO	15	20	10
S C	0	0	0
TENN	0	0	2
18 STATES	7	6	6

THESE 18 STATES PRODUCED 94% OF THE 1982 SOYBEAN CROP.

	COTTON % BOLLS OPENING		
	1983	1982	AVG.
ALA	67	75	65
ARIZ	80	80	85
ARK	87	92	70
CALIF	60	65	65
GA	68	67	74
LA	61	95	75
MISS	84	99	91
MO	100	100	77
N MEX	28	65	44
N C	92	89	89
OKLA	30	15	40
S C	90	84	84
TENN	94	77	48
TEX	44	41	44
14 STATES	57	59	57

THESE 14 STATES PRODUCED 99% OF THE 1982 COTTON CROP.

	COTTON % HARVESTED		
	1983	1982	AVG.
ALA	6	7	12
ARIZ	2	1	4
ARK	13	21	9
CALIF	0	0	0
GA	4	7	18
LA	1	14	12
MISS	2	9	11
MO	27	30	20
N MEX	0	0	0
N C	0	0	10
OKLA	0	0	1
S C	3	4	12
TENN	6	15	12
TEX	14	16	17
14 STATES	8	11	11

THESE 14 STATES PRODUCED 99% OF THE 1982 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 Statistical Offices in cooperation with the National Weather Service.

ALABAMA: Temperatures 7 to 11° below normal. Rainfall 0.50 to 2.00 in.

Soil moisture short to adequate. Fieldwork: 4.4 days. Corn harvested 75%, 1982 78%, average 68%. Soybeans: Turning yellow 52%, 1982 59%, average 69%; dropping leaves 21%, 1982 25%, average 29%; mature 18%, 1982 17%, average 23%. Cotton: Bolls open 67%, 1982 75%, average 65%; harvested 6%, 1982 7%, average 12%. Peanuts: Dug 24%, 1982 65%, average 37%; combined 13%, 1982 43%, average 26%. Sorghum harvested 45%, 1982 48%. Activities: Harvesting corn, cotton, sorghum, peanuts, hay and vegetables; pest control on field crops; land preparation for fall crops; and routine care of livestock and poultry. Corn, soybeans, and cotton mostly fair condition. Peanuts, sorghum, pasture and livestock fair.

ALASKA: Temperatures became unseasonably cold as arctic front moved through and summer ended. Precipitation generally above normal, falling as rain until later in the week when it turned to snow.

Mostly cool and rainy beginning of week turned into snow and cold latter part of week for northern part Railbelt. Suitable haying and combining days ranged 0 to 5. Moisture content of grain varied from 12 to 23 and combines active whenever conditions allowed. Warmer dry weather needed to finish up grain harvesting. Winter hay supplies rated from short to mostly adequate with harvest ranging over half complete. Potato digging over 85% to complete. Ground moisture supplies mostly adequate to surplus.

ARIZONA: Scattered showers, thunderstorms most areas. Heaviest precipitation along Mogollon Rim, northeast corner of State. Rainfall totals mostly 0.25 to 0.50 in. Some amounts north central areas near 5.00 in. Majority of rainfall latter portion week. Prescott area suffered most damage. Temperatures remained warm, not as warm as previous week. Central, southwestern areas average 3° above normal, northern portion 1 to 2° above normal, central, southeast within normal averages.

Seedbed preparation, planting of broccoli, cauliflower, winter lettuce full swing Salt River Valley, Yuma areas. Fall planted vegetables up to good stands, in good condition. Fall cantaloup harvest will start this week Salt River Valley. Honedew harvest to start early October. Lettuce harvest starting this week Willcox area. Dry onion harvest completed. Some squash, watermelon harvest Apache County. Lemon harvest Yuma area advancing, practically all growers picking, volume light. Grapefruit harvest Yuma area limited volume. Very little picking other areas. Citrus crops good condition. Apple harvest Willcox area passed peak, quality very good. Size of crop expected much smaller than normal. Peach harvest in progress Elfrida area. Cotton 2% harvested, compared to 1% last year, average 4%. Defoliation increasing, high subsoil moisture causing difficulty Yuma, some other areas. Open bolls present 80% acreage, same progress as last year, behind average 85%. Insect spraying active in many fields. Sorghum grain good condition, harvest increasing Yuma area, beginning other areas. Corn making good progress, harvest beginning some areas. Alfalfa harvest continued, rain delayed harvest. Seedbed preparation, planting new alfalfa fields active southern counties.

ARKANSAS: Record cold spell midweek. Temperatures averaged 8° below normal Statewide. Low of 30°. Daytime high 92°. Moderate rainfall received at all stations. Heaviest amounts in southeast. Most precipitation 2.97 in. least 0.18 in.

Days suitable for fieldwork 5.6. Moisture supply short. Progress of crops slow. Harvest speeding up. Cotton fair condition; bolls opening 87%, 92% 1982, 71% average; harvested 13%, 21% 1982, 9% average. Rice good condition; some lodging in southeast; harvested 32%, 45% 1982, 38% average. Soybeans poor to fair condition; turning yellow 35%, 38% 1982, 36% average; shedding leaves 21%, 16% 1982, 22% average; harvested 1%, 2% 1982, 2% average. Corn fair; harvested 82%, 95% 1982, 67% average. Sorghum fair; harvested 60%, 85% 1982, 71% average. Winter wheat fair to good; planted 2%, 9% 1982, 8% average. Pastures greening up. Cattle fair.

CALIFORNIA: Above normal temperatures continue, except in the Sierra Nevada. The South Coast reports 8° above normal. Rain across the State was spotty.

Rains had little adverse effect on field crops. Draining of rice fields continues. A few early planted fields have been harvested. Two percent has been harvested, the same as last year but below the 9% average. Sixty percent of the cotton fields have open bolls, compared to 65% last year and an average of 65%. Defoliation in the Desert areas well underway. Safflower harvest complete. Corn harvest continues for grain and silage. Sugarbeets being harvested in the Sacramento Valley. Milo maturing well. Land preparation for small grains continuing. Apple harvest continues in late varieties, scab reported. Fig harvest continues after rain. Raisin crop 90 to 95% rolled or picked up, rain had little impact. Table grapes being packed, wine grape harvest active, good quality. Olive harvest underway. Peach, plum and nectarine shipments for fresh market continue. Persimmons and pomegranates nearly ready for harvest. Grapefruit and lemon harvest continues. Navel oranges sizing nicely. Valencia harvest continues, some problems with creasing and granulation. Almond harvestmaking rapid progress, higher than normal incidence of Navel orange worm and twig borer in San Joaquin Valley. Walnut harvest accelerating. Artichoke harvest light. Brussels sprouts harvest underway. Broccoli fairly good supply Central Coast. Cantaloup harvest decreasing central area. Cauliflower moderate supply Central Coast. Celery harvest active Central Coast. Lettuce supplies reduced by hot weather Salinas-Watsonville. Green pepper. Harvest active Central Coast, northern San Joaquin Valley, Central and South Coast. Processing tomato harvest active but decreasing. Some rain damage late in week. Cattle moving down from summer pasture. Fall calving and lambing underway.

COLORADO: Cold front moved across State on 19th, dropping temperatures 15 to 20°. Record low temperatures bringing first killing frost or freeze late 20th across east. Light precipitation reported late in week.

Winter wheat fair to good condition: 78% seeded, 68% last year, 80% average; 42% emerged, 38% last year, 44% average. Corn in good condition: 94% dented, 84% last year, 85%

average; 55% mature, 29% last year, 26% average; 0% harvested this year, last year and average. Sorghum in fair to good condition: 83% turning color, 78% last year, 77% average; 44% mature, 22% last year, 23% average. Barley in good condition: 93% harvested, 84% last year, 92% average. Spring wheat in good condition: 82% harvested, 63% last year, 77% average. State-wide 6.5 days suitable for fieldwork. Topsoil moisture very short southeast, adequate in northwest, short elsewhere. Subsoil moisture short in southeast, adequate elsewhere. Range and pasture fair in southeast, good to very good rest of State.

FLORIDA: Moderate cold front moved down Peninsula 20th through 22nd, becoming stationary in Florida Straits. Brisk northeasterly winds and much dry air behind front covered State except southern portions, dissipated over weekend.

Soil moisture variable, mostly a surplus Peninsula, mostly adequate Panhandle. Soybean condition declining due to outbreak stem canker. Tobacco auction markets closed. Closing prices record level. Peanut harvest active, delayed by showers some areas. Sorghum ready for harvest. Cotton good condition. Sugarcane rapid growth. Land being prepared for seeding winter grazing crops. Pastures in generally good condition Statewide. Pasture growth has slowed slightly due to cooler night temperatures. Cattle remain in mostly good condition across the State. Citrus condition excellent. First cool front of season. General rains all areas. Near ideal growing conditions. However, fruit sizes and maturity lagging, harvesters waiting. Early oranges splitting in wet areas. Partly cloudy to cloudy skies with afternoon showers prevailed in vegetable areas. A frontal system in late week brought increased rain, stronger winds, cooler temperatures. Rainfall variable. Fieldwork delayed by wet conditions in some areas while irrigation confined in lower southeast coast. Land preparation, planting continues active. Condition of most crops generally good. Light harvest sweet corn, squash. Pole bean harvest underway in Gadsden County.

GEORGIA: Week began warm, then became unseasonably cold late in week; weekly average 1 to 3° below normal. Rainfall generally 1.00 to 2.00 in. Statewide. Fair and cool to mild through 24th and 25th except increased clouds and not quite so cool north late 25th.

Soil moisture 4% short, 75% adequate, 20% surplus. Average days suitable for fieldwork: 3.1. Main activities harvesting, planting, insect and disease control. Corn condition 5% very poor, 25% poor, 48% fair, 20% good, 2% excellent; 81% harvested, 89% last year, 82% average. Cotton condition 36% poor, 50% fair, 14% good, 68% bolls open this year, 67% last year, 74% average; 4% picked, 7% last year, 18% average. Peanut condition 3% very poor, 10% poor, 67% fair, 17% good, 3% excellent; 39% dug, 76% last year, 61% average; 21% threshed, 59% last year, 46% average. Pesticides applied to peanuts. Soybean condition 27% poor, 49% fair, 21% good, 2% excellent; 99% setting pods this year and last, 98% average; 23% dropping leaves, 34% last year, 29% average. Some reports of soybean stem cancer infestation. Apple condition 9% very poor, 29% poor, 35% fair, 27% good; 77% picked, 93% last year, 88% average. Pecan condition 3% very poor, 12% poor, 58% fair, 27% good. Hay crops 15% poor, 55% fair, 29% good. Pastures 6% poor, 51% fair, 42% good. Rains beneficial to pastures. Wheat 5% planted this year and average, 3% last year. Rye 9% planted, 12% last year, 8% average. Other small grains 10% planted, 8% last year, 9% average.

HAWAII: Variable, but generally beneficial, weather prevailed throughout the Island Chain. Cloudy, showery weather occurred at the State's eastern end while sunny skies prevailed over the rest of the State. Insect infestations reportedly higher in some areas, but heavier spraying has controlled damage. Most crops continue to make good progress. Major vegetable supplies continue to be moderate to heavy. Papaya production expected to begin increasing soon. Watermelon production will hold at last week's level although insect damage reported to be heavy in some fields.

IDAHO: A Pacific cold front swept through the entire State during the beginning of the week bringing record low temperatures. This cold air mass dropped the freezing level down to the vicinity of 5,000 feet, driving a few rain and snow showers to the eastern section of the State. By midweek a high pressure system along with a drier air mass brought fair skies and warmer temperatures. Average temperatures were mostly in the 40's and 50's. Temperatures were below normal over most of the State. Greatest departures from normal were at Grangeville with a -10° followed by Sandpoint and Caldwell with a -7°. Precipitation amounts generally varied between 0.20 and 0.40 in. Moscow reported the most with 0.42 in. Precipitation departures ranged from a minus 0.30 in. at Porthill and a minus 0.24 in. at Malad, while Lewiston reported plus 0.06 in. and Moscow plus 0.11 in.

Farmers reported 6.1 days suitable for fieldwork. Winter wheat seeding at 45%, compared with 38% last year and 36% average. Emergence stood at 18% versus 14% a year ago and 17% average. Potatoes harvested on 19% of the acres, ahead of 12% a year ago as well as 12% average. Some frost damage in east to potatoes near soil surface. Dry beans 50% threshed, up from 42% in 1982 and 42% average. Corn for silage advanced to 54% cut versus 1982's 53% and average of 45%. Third cutting of alfalfa wrapped up on 32% of the acreage, down from 48% last year. Onions 56% harvested at week's end compared with 60% a year earlier.

ILLINOIS: Temperatures 5 to 11° below normal. Precipitation 0.11 to 1.49 in., heaviest north and east.

Soil moisture 64% short, 35% adequate, 1% surplus. Days suitable fieldwork: 4.8. Corn mature 92%, 1982 92%, average 88%; harvested 13%, 1982 8%, average 9%. Soybeans 94% turning yellow, 1982 93%, average 91%; 80% shedding leaves, 1982 76%, average 71%; 17% harvested, 1982 18%, average 16%. Wheat 5% planted, 1982 7%, average 10%. Pasture condition 15% good, 33% fair, 45% poor, 7% failure. Livestock condition good.

INDIANA: Maximum temperatures averaged 4 to 9° below normal with low temperatures into the low 30's in many areas. Most rain during first half of the week. Totals from 0.15 to 1.48 in. Most areas more than 0.50 in. Soil temperatures in low 60's over most of State.

Fieldwork averaged 5.5 days. Topsoil moisture mostly short to adequate. Subsoil moisture short. Corn 5% harvested, 1982 5%, average 5%. Corn moisture 25%, 1982 26%, 1981 31%. Corn 80% mature, 1982 85%, average 65%. Corn 100% dented, 1982 100%, average 97%. Soybeans 10% harvested, 1982 10%, average 5%. Soybean moisture 14%, 1982 14%. Soybeans 45% mature, 1982 50%, average 65%. Soybeans 85% dropping leaves, 1982 85%, average 65%. Winter wheat 9% seeded, 1982 9%, average 9%. Wheat land 40% plowed, 1982 50%, average 50%. Tobacco 60% harvested, 1982 80%, average 80%. Silos 80% filled, 1982 75%, average 55%. Pasture condition poor to fair.

IOWA: Unseasonably cool and wet. Gentle freeze most of State on 21st to 23rd. All districts reported above normal precipitation for the first week since the week ending July 4th. Temperature extremes: 22 and 90°.

Days suitable: 4.1. Corn mature 97%, 46% last year, 76% normal; harvested 15%, 1% last year, 4% normal. Soybeans with leaves turning 98%, 72% last year, 90% normal; leaves shedding 80%, 36% last year, 60% normal; mature 44%, 14% last year, 42% normal; harvested 7%, 1% last year; 5% normal. Third crop alfalfa hay harvested 95%, 93% last year, 98% normal. Topsoil moisture 24% short, 65% adequate, 11% surplus. Subsoil moisture 49% short, 47% adequate, 4% surplus.

KANSAS: Temperatures averaged from 58° north central to 64° southwest, 2 to 3° below normal west, 5 to 8° below north central and east. Precipitation averaged little or none west, 0.18 in. south central, 0.60 to 0.90 in. elsewhere.

Corn 95% dent, 90% last year, 95% average; 70% mature, 60% last year, 75% average; 15% harvested, 10% last year, 20% average. Sorghum 95% headed, 98% last year, 99% average; 75% colored, 60% last year, 85% average; 40% mature, 15% last year, 40% average; 10% harvested, 3% last year, 10% average. Soybeans 65% dropped leaves, 25% last year, 50% average; 4% harvested, 1% last year, 3% average. Killing frost west, light other areas, September 20th and 21st, extensive damage immature milo, late soybeans. Wind lodged corn southwest; considerable blowing of soil, some replant of wheat necessary. Wheat 25% planted, 30% last year, 40% average. Alfalfa hay 3rd cutting complete; 4th cutting 40% complete. Soil moisture on short side Statewide. Pastures and range improving, generally very poor to fair. Supplemental feeding of stock still necessary most areas. Days suitable for fieldwork: 5.5.

KENTUCKY: Unseasonably warm with temperatures reaching 90°. By midweek a cold front brought record low temperatures and scattered light frost. Temperatures averaged from 2 to 7° below normal. Our first general rainfall accompanied this change from summer to fall. Weekly totals ranged from 0.02 to around 1.00 in. Even greater amounts left most locations below normal.

Soil moisture 66% critically short, 31% short, 3% adequate. Days suitable for fieldwork: 5.4. Burley 76% cut, 92% last year and 90% average. Dark tobacco 80% cut. Corn for grain 15% harvested, 17% last year, 19% average. Yields poor, earliest corn fair. Nearly all corn dented and 70% mature or harvested. Soybeans 3% harvested, 4% in 1982 and 5% average; 34% shedding leaves or beyond, compared to 39% last year and 34% average. Beans small, many pods poorly filled. Pastures very poor.

LOUISIANA: Temperatures averaged 4 to 8° below normal. High 91°. Low 40°. Rainfall ranged from 0.70 to 2.60 in.

Soil moisture short to adequate north, surplus south. Days suitable 3.7. Corn harvest 86%, 97% 1982, 92% average. Cotton open bolls 61%, 95% 1982, 75% average. Cotton harvest 1%, 14% 1982, 12% average. Condition fair. Rice ripe 96%, 98% 1982. Harvested 78%, 91% 1982 and average. Condition fair. Sorghum ripe 95%, 97% 1982, 90% average. Harvest 84%, 89% 1982, 72% average. Soybeans turning color 62%, 64% 1982, 60% average. Leaves shedding 32%, 36% 1982, 34% average. Harvested 2%, 8% 1982, 6% average. Condition fair. Sweetpotatoes harvested 62%, 57% 1982, 58% average. Condition fair to good. Sugarcane planted 53%, 69% 1982, 55% average.

Condition good. Pecans rated fair to good. Vegetables rated fair. Wheat planted 2%, 1% 1982, 10% average. Condition good. Hay final cutting 76%, 77% 1982. Pastures rated fair to good. Livestock rated good.

MARYLAND AND DELAWARE: Maryland: Rains fell over the entire State for the second consecutive week, but were of little value for crop yield improvement. Topsoil and subsoil moisture mostly adequate on the Eastern Shore but short elsewhere. Six days suitable for fieldwork in spite of the rain. Corn 95% dented this year and last; moisture 65%, 70% last year. Corn grain harvest 25%, 20% 1982. Silage 80% cut, 75% cut in 1982. Soybeans 55% turned 1983 and 1982. Soybeans that have shed leaves 15%, last year 25%. Tobacco; 100% bloomed, 85% topped. Tobacco harvest 65% complete, 90% last year. Tomatoes 95% picked, 100% last year. Sweetpotatoes 20% harvested. Apples 45% picked, 40% last year. Fourth cutting alfalfa hay 65% 1983 and 1982. Fall seed grains: 10% barley, 25% rye, last year, 20% barley, 15% rye planted.

Delaware: General rains making 5.0 days suitable for fieldwork. Soil moisture mostly adequate throughout the State. Corn 95% dented, 85% mature; last year 90% dented, 85% mature. Corn grain harvest 15% complete, 30% last year. Silage 80% cut, last year 90% cut. Soybeans 30% turned, 10% shed, 1982 85% turned 40% shed. Tomatoes 90% picked, 100% last year. Apples, 60% picked both years. Fourth cutting alfalfa hay 65% complete, 55% in 1982 cut. Other hay 35% cut for fourth time. Fall seeded barley 10% planted, 35% last year.

MICHIGAN: Second consecutive week of below normal temperatures accompanied by moderate amounts of precipitation made it feel like an early fall. Temperatures averaged 3 to 4° below normal. Over 2.00 in. of precipitation fell over the west upper Peninsula and also over the northeast and southwest lower Peninsula. Only the central portion of the lower Peninsula averaged less than 1.00 in. of rainfall.

Statwide 2.5 days suitable for fieldwork. Dry beans 25% harvested, 25% last year, 51% average. Corn 100% dented, 90% last year, 94% average. Corn 80% mature, 70% last year, 54% average. Corn for grain harvest 3% complete, 2% last year and 2% average. Corn silage 40% harvested, 40% last year, 39% average. Soybeans 85% dropping leaves, 80% last year, 66% average. Soybeans 45% mature, 45% last year, 24% average. Soybeans 2% harvested, 1% last year, 1% average. Third cutting hay 75% baled, 71% last year, 71% average. Wheat 10% planted, 10% last year, 21% average. Fruit and vegetable harvest continues over the State.

MINNESOTA: Cool and cloudy early in week; clearing and warmer by the weekend. Heavy rains southeast corner on 19th. First Statewide frost on night of 22nd. Temperatures averaged 5 to 10° below normal. High: 85°. Low: 22°. Precipitation averaged 2.15 in. above normal for southeast, 0.90 in. above normal for south central, and 0.31 to 0.71 in. below normal elsewhere.

First hard freeze at nearly all points in the State was welcomed for killing weeds and dropping moisture content in row crops. Cold, damp weather discouraged fieldwork early in week, but sunny, dry days at end of week were ideal for harvest activity. Field corn harvest became very active in west central counties which so far have had worst damage from windstorms and corn bores. Heavy rains early in week drenched fields in southeast, but rest of State had scant rainfall. Days suitable

for fieldwork: 3.6. Topsoil moisture: 7% short, 59% adequate, 34% surplus. Field corn denting 99%, 1982 96%, normal 96%. Soybeans shedding leaves 92%, 1982 74%, normal 83%. Field corn 77% mature, 1982 44%, normal 56%; soybeans mature 47%, 1982 41%, normal 44%. Harvested: Field corn 6%, 1982 0%, normal 1%; soybeans 6%, 1982 1%, normal 4%. Sunflowers 2%, 1982 2%, normal 7%; sugarbeets 12%, 1982 15%, normal 6%; potatoes 41%, 1982 40%, normal 44%.

MISSISSIPPI: Cold front midweek produced record lows. Extremes 34 and 94°. Rainfall preceded cold front. Greatest 24-hour 4.43 in. Greatest weekly total 5.12 in.

Soil moisture adequate. Fieldwork 3.7 days suitable, 5.8 1982, 5.4 average. Soybeans 96% podding, 100% 1982 and average; 37% shedding, 60% 1982, 55% average; 1% harvested, 3% 1982, 5% average; condition fair. Cotton 84% open bolls, 99% last year, 91% average; 2% harvested, 9% 1982, 11% average; condition fair to poor. Rice fair; 21% harvested, 45% 1982, 50% average. Sorghum 53% harvested, 56% last year, 50% average. Hay 91% harvested; sorghum silage 88%; peanuts 52%; sweetpotatoes 32%; corn 60%. Wheat 3% seeded, 5% last year, 13% average. Pecan condition fair to good. Pasture condition fair to poor northern half of State, fair to good southern half.

MISSOURI: Record low temperatures at midweek produced scattered frost. Temperatures averaged 3 to 4° below normal. Precipitation averaged 0.50 to 0.75 in.

Days suitable for fieldwork: 4.9. Corn 90% mature, 72% last year and 67% normal. Corn 37% harvested, 18% last year and 22% normal. Grain sorghum 81% mature, 66% last year and 61% normal. Sorghum 41% harvested, 29% last year and 23% normal. Soybeans 81% turning color, 44% last year and 60% normal. Beans 28% mature, 13% last year and 20% normal. Beans 9% harvested, 3% last year and 5% normal. Winter wheat seeding 9% completed, 7% last year and 12% normal. Cotton 27% harvested, 30% last year and 20% normal. Pasture condition 2% good, 23% fair and 75% poor. Topsoil moisture supplies 1% surplus, 21% adequate and 78% short.

MONTANA: Major snow storm swept across most of State first of week with 3 to 18 in. of snow common. North central and northeast escaped snow and rain. Precipitation amounts from 0.50 to 1.50 in. in the snow areas. Temperatures very cold first of the week, some areas reported first sub-zero temperatures of the season, and for the week ranged from 6 to 11° below normal. Good warming by end of the week.

Topsoil and subsoil moisture supplies mostly short except west and south central districts. Winter wheat seeding 45% complete, last year 20%, average 40%. Percent harvest completed compared with last year and average: Barley 98, 90, 85; oats 98, 95, 90; potatoes 20, 15, 10; corn silage 70, 25, 45; dry beans 65, 40, 35; second cutting alfalfa hay 90, 90, 90. Sugarbeet harvest to begin October 2. Fieldwork, 4.5 days suitable. About 45% cattle and sheep moved from summer ranges.

NEBRASKA: Precipitation less than 0.10 in. Panhandle and southwest. Scattered showers remainder of State 0.25 in. average with some points over 1.00 in. Temperatures 6 to 8° below normal.

Corn fair to good. Mature 85%, 20% last year and 50% average. Harvested 6%, 0% and 1%. Stalk breakage on standing corn and sorghum causing concern. Sorghum mostly fair to good. Ripe 65%, 4%, 45%, Harvested 6%, 0%, 3%. Soybeans

fair. Turning color 90%, 60%, 85%. Shedding leaves 65%, 15%, 55%. Harvested 5%, 0%, 4%. Winter wheat sown 80%, 70%, 80%. Emerged 45%, 35%, 45%. Pasture and range feed short to adequate. Both topsoil and subsoil moisture mostly short to adequate. Days suitable for fieldwork 6.0.

NEVADA: High pressure dominated weather early in week. Northern 2/3rd of State received blast of cold air from north. Temperatures plunged 15 to 20° behind front. Highs in north fell into mid 60's while lows in some areas dipped into the upper 20's. Temperatures moderated by midweek as Pacific low began to spread clouds over west. In spite of the wild temperature swings, averages were near seasonal normals. Precipitation was generally widespread first half of week. Precipitation was generally more uniform latter half of week as more moisture continued to flow into the area around the low pressure system.

Rain interrupted field activities most areas. Potato digging slowed somewhat. Alfalfa seed harvest made favorable progress. Wet fields delayed six cutting alfalfa hay southern areas and wind up 3rd cutting northern areas. Ranges continue in excellent condition.

NEW ENGLAND: Record high temperatures 19th and 20th with .80's in north and 90's in south. Midweek large portion of New England had over 1.00 in. or rain.

Days suitable for fieldwork averaged 6.3. Soil moisture supplies short. Maine potatoes 35% dug. Rhode Island potatoes 85% harvested. Silage corn 25% harvested. Second crop of hay 87% cut. Apples medium size and good color; 26% harvested.

NEW JERSEY: Temperatures averaged near normal. Extremes were 31° on the 25th and 96° on the 20th. Weekly rainfall averaged 1.52 in. north, 1.65 in. central and 1.71 in. south. The heaviest 24-hour total 2.11 in. on the 21st to 22nd. Estimated soil moisture, in percent of field capacity, averaged 90% north, 85% central and 82% south. Four inch soil temperatures averaged 59° north, 64° central and 65° south.

Fieldwork: 5.9 days suitable. Recent rainfall beneficial to late crops and fall seeded grains. Topsoil moisture supply now reported adequate. Movement of fall vegetables increasing. Apple harvest continues active. Corn silage harvest continues. Pasture growth in good condition.

NEW MEXICO: Colder air across State on 20th lowered average temperatures 3 to 4° below normal over north and east. Minimum temperature 19°, northern mountains. Maximum temperature 100°, southeastern Plains. Scattered showers most sections latter part of week. Most significant amounts central and west, generally less than 0.50 in.

Soil moisture very short to short. Cotton rated good: 28% open bolls, 65% last year, 44% average. Alfalfa good. Northern counties wrapping up third cutting. Southern areas in 5th or 6th. Irrigated grain sorghum 100% dough, rated good. Dryland crop poor. Corn 100% dough. Silage harvest 70% complete. Irrigated wheat, barley 50% planted. Dryland fields awaiting rain. Peanut harvest begins October 1. Apple, chile harvest continues. Mesilla Valley fall lettuce thinned, rated good. Cattle, sheep good due to supplemental feeding. Herd liquidation picking up. Ranges poor, most areas.

NEW YORK: Temperatures near normal. Rainfall above normal, slowed fieldwork. Only scattered frost.

Corn silage harvest 15% done, 23% 1982, 20% average. Third cutting alfalfa 70% cut, 62% 1982, 61% average. Wheat planting, dry bean harvesting active. Apple, bosc pear, finger lakes area grape harvests active. Lake Erie concord grape harvest to start next week. Vegetable crop harvests continue active.

NORTH CAROLINA: Temperatures 2° below normal in east, and 6° below normal in mountains. Rainfall widespread.

Soil moisture: 7% very short, 38% short, 55% adequate. Days suitable for fieldwork: 5.0. Condition: Cotton 17% poor, 72% fair, 11% good. Peanuts: 13% poor; 65% fair, 22% good. Soybeans: 28% poor, 59% fair, 13% good. Sorghum: 34% poor, 55% fair, 11% good. Apples: 54% fair, 46% good, Sweetpotatoes: 13% poor, 66% fair, 21% good. Phenological Stages: Cotton opening bolls: 92%, 1982 89%, average 89%. Corn mature: 99%, 1982 100%, average 97%. Soybeans setting pods: 97%, 1982 97%, average 97%. Harvests: Flue-tobacco: 92%, 100% 1982, average 99%. Corn for grain: 55%, 1982 70%, average 67%. Corn for silage: 86%, 1982 89%, average 89%. Apples: 32%, 1982 73%, average 56%. Burley tobacco: 29%, 1982 81%, average 82%. Sorghum harvest: 19%, 1982 45%, average 42%. Sweetpotatoes: 10%, 1982 42%, average 33%. Major farm activities: Corn grain harvest, flue tobacco harvest and marketing, burley tobacco harvest, silage cutting, preparation of land for fall planting, vegetable harvest, hay making, scouting and spraying soybeans and peanuts.

NORTH DAKOTA: Freezing temperatures were reported Statewide. First snow of the season hit parts of western and central. Above normal temperatures had returned by week's end. Temperatures averaged 9° below normal. Extremes from 84° northwest to 10° also northwest. Largest reported snow accumulation 2.00 in. southwest. Precipitation southwest averaged slightly above normal. All other parts were much below normal.

First hard freeze of the season. Killed most row crops, but should not hurt yields as crops were mostly mature. Average of 6.2 days suitable. Freeze should promote fast dry-down, earlier harvest of sunflower, corn and soybeans. Winter wheat and rye seeding almost complete. Sunflower and corn mostly fair to good condition. Soybeans mostly good. The percent harvested compared to last year and average: Sunflower 3, 1, 4; corn grain 10, 3, 4; flax 81, 72, 60; soybeans 19, 7, 11; dry beans 38, 50, 53; potatoes 33, 60, 48; and sugarbeets 12, 12, 5.

OHIO: Temperatures 2 to 8° below normal. Extremes from low 90's to upper 20's. Precipitation from 0.50 to 1.00 in. heaviest in central sections. Drying delayed by cloudiness, cool temperatures.

Corn condition fair. Harvest most active in drought areas. Some stalk lodged. Grain moisture generally low. Soybeans condition fair. Widely varying maturity stages. Winter wheat planted 5%, 10% 1982, 10% average. Soybeans dropping leaves 75%, 90% 1982, 65% average; harvested 15%, 20% 1982, 10% average. Corn dented 100%, 100% 1982, 98% average; mature 80%, 1982 90% average, 70% average; harvested 10%, 10% 1982, 5% average; silage harvested 65%, 70% 1982, 55% average. Days favorable: 5.5. Pasture condition poor to fair. Soil moisture 55% short, 41% adequate, 4% surplus.

OKLAHOMA: Average temperatures varied from 8° below normal north central to 4° below normal southwest and east central. Precipitation

averages varied from a trace Panhandle and western Divisions to 0.81 in. east central.

Rainfall during early part of last week greatly enhanced wheat pasture prospects and improved conditions of late planted crops. Freezing temperatures in northwest caused some damage to sorghum. Good progress made on small grain plantings in areas receiving adequate moisture. Rain too late to reverse earlier stress on most crops. Wheat planted: 20%, 15%, 1982, 30% average. Sorghum coloring: 95%, 90% 1982, 97% average; mature 26%, 45% 1982, 65% average; harvested: 10%, 10% 1982, 10% average. Cotton open bolls: 30%, 15% 1982, 40% average; harvested: 0%, 0% 1982, 1% average.

OREGON: Temperatures 2 to 5° above normal over west; 3 to 8° below normal east of Cascades. Rainfall was light over the northwest and south-east. Elsewhere rainfall from 0.10 to 0.40 in.

The 1984 winter wheat crop was 13% seeded compared to 20% in the fall of 1982 and to a 24% average. Ground preparation continues in those areas where seeding has not yet begun. Late grain harvest virtually complete except at higher elevations in south central areas. Fall grasses being planted with some fields already germinated. Prune and berry harvest complete. Sweet corn harvest continues, crop good. Apples and winter pears still being harvested. Potato and onion harvests still underway; both crops yielding well. Filberts nearly all on the ground, harvest will begin this week. Yields expected to be poor. Cranberry harvest underway, crop in good condition. Soil moisture adequate Statewide. Livestock, range and pasture condition good to excellent.

PENNSYLVANIA: Week began very warm and ended very cool with killing frost in isolated northern counties. State average temperature equaled the State normal of 60°. Precipitation was noted over all of the State with amounts ranging from just over 0.25 to 3.64 in. in the Erie area. Temperature extremes 95 and 24°.

Days suitable: 5.0. Moisture short to adequate. Activities: Plowing; seeding barley, wheat, and rye; making hay; and harvesting tobacco, corn silage, haylage, potatoes, cabbage, tomatoes, apples and grapes. Tobacco 90% harvested, last year 89%. Potatoes 62% harvested, last year 74%. Corn silage 43% harvested, last year 50%. Corn for grain 87% dented or poast and 30% mature; last year 80% dented or past and 23% mature; average 84% dented or past and 29% mature. Fall plowing 61% complete; last year 77%; average 69%. Barley 53% planted; last year 61%. Wheat 31% planted, last year 44%. Third crop alfalfa 86% harvested, last year 78%. Fourth crop alfalfa 30% harvested, last year 36%. Harvest of second cutting clover virtually complete, one week later than last year. Quality of hay made fair to good. Feed from pastures below average to average.

PUERTO RICO: Island average rainfall 1.38 in. or 0.42 in. below normal. Highest weekly total 4.70 in. Highest 24-hour total 2.32 in. Temperatures averaged about 82° on coasts and 76 to 74° Interior Divisions. Mean stations temperature ranged from 67.9 to 84.2°. Extremes 95 and 58°

SOUTH CAROLINA: Warmer than usual until cooler air moved in midweek. Rains 19th over northwest, general 20th.

Soil moisture almost adequate. Days for fieldwork: 5.0. Corn mostly weed infested, condition poor to fair; harvested 75%, 89% year ago, 83% average. Cotton open bolls 90%, 84% year ago and average; poor condition; 3% harvested, 4% year ago, 12% average. Soybeans generally without

insect pressure. Condition poor to fair but rains, growing weather benefitting yields; 6% dropping leaves, 10% last year, 14% average; maturing at 1%, 3% last year, 4% average. Tobacco harvest winding up. Apples fair to good condition, sizes up with rains; 53% harvested, 81% last year, 78% average. Pastures, fall hays greening with rains, conditions remain poor to fair. Livestock fair to good condition.

SOUTH DAKOTA: Average temperatures 5 to 11° below normal. Extremes: 87 and 15°. Below normal precipitation. Greatest rainfall was 0.41 in. south central.

Major activities were cutting corn silage, seeding winter grains, fall tillage, and moving hay. Days suitable for fieldwork: 5.8. Little effect on crops yields expected from freeze. Most concern over late planted soybeans and sorghum in southern portions of State. Western alfalfa seed crop may have been hurt slightly. Winter wheat seeded 90%, 1982 86%, average 85%. Winter wheat emerged 55%, 1982 45%, average 53%. Sorghum coloring 95%, 1982 86%, average 93%. Sorghum mature 76%, 1982 48%, average 53%. Sorghum harvested 2%, 1982 0%, average 5%. Corn dented 96%, 1982 84%, average 98%. Corn mature 87%, 1982 65%, average 85%. Corn harvest 6%, 1982 0%, average 3%.

TENNESSEE: Cold front with light rain passed through the State midweek. Rains were light; temperatures plunged to record lows in some locations. Lows were in low 30's, highs in low 90's, averages in mid 60's, 10 to 15° below normal.

Corn mature 85%, 1982 85%, average 78%; harvested 23%, 1982 19%, average 20%. Cotton open bolls 94%, 1982 77%, average 48%; picked 6%, 1982 15%, average 12%. Soybeans shedding leaves 30%, 1982 27%, average 21%; mature 4%, 1982 5%, average 5%; harvested 0%, 1982 0%, average 2%. Burley tobacco harvested 83%, 1982 93%, average 89%; dark-fired tobacco harvested 70%, 1982 85%, average 85%; dark air-cured tobacco harvested 78%, 1982 88%, average 89%. Wheat sown 7%, 1982 15%, average 20%. Pastures poor. Soil moisture short to critically short. Days suitable for fieldwork: 5.3.

TEXAS: Weather highlighted by unseasonable record shattering cold front. Front preceded by widespread, heavy rains South Texas. Temperatures Statewide fell to record levels. After early-week downpours, skies cleared under dominance of large cone of Canadian air. Mostly dry week, only easter flank -- East Texas, Upper Coast, Lower Valley--above normal. Elsewhere, precipitation around 0.50 in. under mean.

Crops Record low temperatures, slowing maturing of field crops, damage to cotton, sorghum High Plains. Cotton harvest continued at slow pace, cool temperatures slowed development. Northern High Plains freezing temperatures caused damage which will hurt quality, may reduce yields. Temperatures Lubbock area northward dipped into twenties causing damage to upper portions of plants. Elsewhere in State, cool temperatures slowed maturing. Irrigated fields still in good condition, dryland fields continue to suffer. Defoliation beginning Low Plains, current condition is 58% of normal compared with 57% a year ago. About 2% excellent; 15% good; 65% fair and 18% poor. Sorghum harvest continued at steady pace, cool temperatures have slowed maturing. High Plains, where temperatures fell below freezing, growth halted, many plants suffered damage. Losses not determined, but final yield quality expected to be affected. By week's end condition 67% of normal compared with 91% last year. Reported conditions

was 5% excellent; 37% good; 42% fair; 15% poor; 1% failure. **Corn** harvest continued ahead of previous years. Harvest activity centered in northern portion of State, producers still harvesting high moisture corn High Plains. Heavy winds, freezing temperatures High Plains, blew down some acreage. Yields remain good. **Sugarbeet** harvest High Plains should be underway early October. Crop in excellent condition, only minor insect, mildew damage. **Peanut** harvest underway, digging in North, Central Texas. Yields expected good despite dry conditions. **Small grain** planting gained momentum, progress remains behind previous years. Dry conditions continue to slow planting. Planting for grazing purposes major concern at this time. **Soybean** maturing slowed by cool temperatures. Quality affected by prolonged dryness, hot temperatures High Plains, by excess moisture Coastal area, East Texas.

Cotton open bolls 44%, 1982 41%, 44% average; harvested 14%, 16% 1982, 17% average. Sorghum turning color 91%, 1982 91%, 93% average; mature 67%, 73% 1982, 77% average; harvested for grain 65%, 68% 1982, 71% average. Wheat planted all purposes 19%, 28% 1982, 35% average; emerged 1%, 5% 1982, 10% average. Corn harvested for grain 81%, 61% 1982, 58% average. Peanuts harvested 7%, 21% 1982, 23% average. Soybeans harvested 1%, 1% 1982, 2% average. Sunflowers harvested 7%, 21% 1982, 17% average. Oats planted for all purposes 17%, 16% 1982, 25% average.

Commercial vegetables: Rio Grande Valley, land preparation, limited planting of fall vegetables continued. Citrus harvest has begun, first box of early oranges packed on September 14th. San Antonio-Winter Garden area, activity for fall planting continues. Rains helpful but irrigation continues. East Texas, harvest of sweetpotatoes active, rains caused some delays. In the Trans-Pecos region, harvest of cucumbers continues. Red chilies harvest active, green chilies developing well. Northern High Plains, heavy frost damage remaining peppers, cucumbers. Cool temperatures also hurt developing carrots. **Pecans** continue to mature, many areas reporting nuts in hardening stages. Weevil borers increasing but spraying has curtailed damage.

Range and livestock: Despite some shower activity, cooler temperatures, range and pasture condition improved very little. With only Coast, East, Northeast Texas reporting adequate grazing, supplemental feeding increasing. Portions of West Texas, Plains continue to suffer through drought conditions, outlook for winter grazing of native grasses, small grains remains uncertain. Despite lack of grazing, livestock condition remains good to excellent.

UTAH: Isolated shower southern part of State. Accumulations light to moderate southeast and light to heavy south central division. Temperatures 2° below normal northern part, 2° above southern part.

Moderate frost hit several agricultural valleys, stopping growth of corn and hay. Rainfall light. Days suitable for fieldwork: 6.6. Major activities included winter wheat seeding, silage and hay harvest, and fruit picking. Winter wheat 62% seeded. Some valleys need rain for good germination. Corn silage 18% cut. Short season left corn immature in marginal areas. Quality will be hurt. Third crop hay 56% cut. Rain damage light. Most peaches and pears picked, apples 16% harvested. Livestock movement from summer ranges just beginning.

VIRGINIA: Hot, dry weather persisted during summer but came to an end on 21st with passage

of a strong cold front. Temperatures 19th and 20th were in the 80's and 90's replaced with temperatures in the 50's and 60's by 22nd. Scattered frost reported over all but extreme eastern section 23rd and 24th. Some stations in western part had readings in the mid and upper 20's. Weekly average temperature was normal with rainfall in the 0.50 to 1.50 in. range.

Topsoil moisture improved to 69% short, 31% adequate. Days suitable for fieldwork averaged 4.9. Corn continued to be rated in poor condition with 98% dented, 99% last year, 100% average. Mature 90%, 92% last year, 93% average. Harvesting for grain progressed to 38% complete, 33% in 1982, 36% average. Harvest for silage 80% complete, 81% in 1982 and 77% average. Soybean condition continues to be reported very poor. Cutting for hay and silage still active. Harvest for grain slow with less than 1% of crop combined, last year and average about the same. Peanut condition reported poor. Digging 6% complete, 14% last year, 8% average. Combining started, less than 1% complete, 8% last year and 3% average. Flue-cured pulling 80% complete, 95% in 1982, 88% average. Fire-cured harvest 89% complete, 94% last year, and 91% average. Burley cutting 73% complete, 91% in 1982, and 86% average. Sun-cured harvest 87% done, 92% last year, 88% average. Small grain seeding active but a little behind last year and average.

WASHINGTON: Week begun with strong cold front moving south across State. Low pressure formed on the front near the coast and moved east. Nearly all the rain occurred on 24th and 25th. Rainfall ranged from 1.00 in. along the coast to less than 0.50 in. in the Interior. High pressure prevailed the remainder of the week. Temperatures averaged near normal west of the Cascades and well below normal east of the Cascades. Many stations in east had a minimum of 32° or lower.

Grain crop harvest virtually completed. Winter wheat seeding 52% this year, 51% last year and average at 47%. Winter wheat seeding well along central areas; just started along eastern border. Some minor reseeded. Potato harvest continues, field corn harvest more advanced. Third cutting of alfalfa hay continues. Golden delicious apple harvest still active; more areas starting red delicious harvest. Quality good, above normal size. Grape harvest has begun in Benton County. West of the Cascades, raspberry growers pruning out old canes, strawberry growers applying fall herbicides. Cucumber harvest finished, carrots and sweet corn harvest continues. Beet seed harvest continues in Skagit County. On the eastside, sweet corn, carrots and onions being harvested. Pasture condition in excellent shape. Livestock remain in good condition.

WEST VIRGINIA: Temperatures averaged below normal across the State except in the northeast where they were near normal. Range: 18 to 96°. Rainfall averaged near normal Statewide. Range: 0.27 to 1.25 in. Frost reported in several areas the 24th.

Soil moisture short to very short. Days worked averaged 4.9. Main activities: Corn harvesting, hay harvesting, pasture clipping, general maintenance. Wheat 14% planted. Barley 7% planted. Corn in fair to poor condition with 35% dough stage, 45% mature, and 20% harvested; 23%, 56%, and 21% in 1982. Tobacco in fair to good condition: 90% harvested at 71% of normal, 94% harvested in 1982. Pasture in poor to fair condition. Hay in fair to poor condition, 2nd cutting was 97% complete at 67% of normal, similar to 1982. Third cutting 52% complete at 52% of normal, well behind the 74% complete in 1982. Apples in fair condition.

WISCONSIN: Wet and cool week. Showers and thunderstorms on 19th brought 1.00 and 2.00 in. of rain. Cold air and rain on 20th were general with amounts of moisture less than 0.05 in. Temperatures 40's and 50's on 21st and 22nd. Clear skies and light wind brought frost on 23rd and early 24th. Southerly winds on 25th pushed temperatures into the 60's. Highest reading 81° Cambridge. Lowest 27° Baldwin and Lake Thompson. Wet weather delayed farm activities.

Days suitable for fieldwork: 2.0. Soil moisture 60% wet, 39% adequate, 1% short. Corn 80% mature, 53% last year, average 81%. Corn denting 91% complete, 76% year ago, 88% average. Silo filling 20% complete, 13% last year, 32% average. Soybeans shedding leaves 53% complete compared to 40% last year. Fall plowing slowed because of weather, 8% complete. Pasture 38% normal.

WYOMING: Temperatures below normal Statewide. Precipitation also below normal.

Topsoil moisture short 54% State. Days suitable for fieldwork: 6.0. Winter wheat seeded; 90%; normally 90%. Winter wheat emerged: 60%; normally 66%. Winter wheat fair to mostly good condition. Barley, oats: mature 10%; harvested 90%. Spring wheat: 5% mature; 95% harvested. Corn for grain: dough 10%; dented 60%; mature 25%; small amount harvested. Corn silage harvest 70% complete. Dry beans 75% combined; normally 64% combined. Potatoes 35% dug, normally 52% dug. Alfalfa second cutting 95% complete, third cutting underway few areas. Other hay harvest 95% complete. Winter grazing prospects fair to mostly good. Livestock producers expect to winter about the same number of livestock as did last year. Calf, lamb weights unchanged to heavier than last year.

National Weather Summary (continued from front cover)

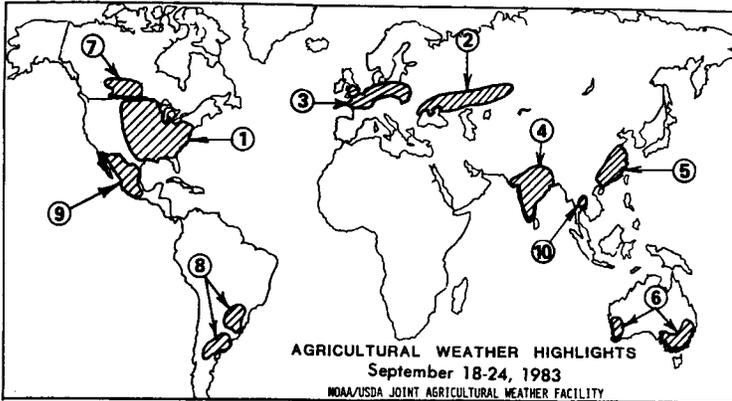
THURSDAY...Temperatures in the thirties and forties set low temperature records from Texas through Alabama and northward into Indiana. Freezing temperatures backed off somewhat and only covered the northern Plains and the Rockies, but some scattered frost pockets were reported across all of the northern States. Light showers around the Great Lakes were occasionally in the form of snow in northern areas. A low-pressure system off the coast of California triggered showers and thunderstorms in the northern part of the San Joaquin Valley.

FRIDAY...Morning temperatures continued to reach record lows in much of the East. Freezing temperatures moved into the upper Mississippi Valley, with pockets of frost occurring throughout the Northeast. A few very light showers fell in the northeastern part of the Nation and moderate showers fell over the southern and central Plateau. Light showers continued in the upper San Joaquin Valley.

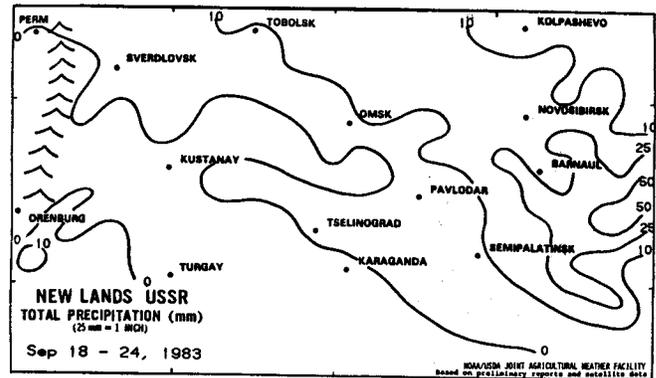
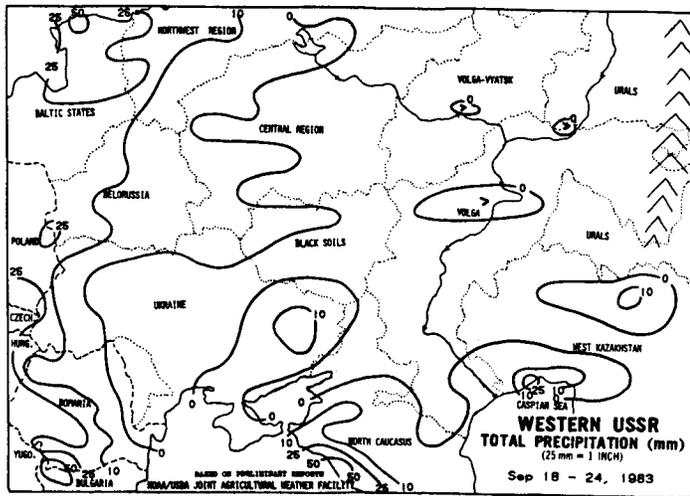
SATURDAY...More record low temperatures were set in the East as the air mass began to warm through the Plains. High temperatures rose to the eighties as far north as North Dakota before another surge of cooler air moved through the northern Plains. Showers fell ahead of the new surge of cool air from Oklahoma to northern Michigan. Very light showers continued in the Southwest and the central Rockies.

International Weather and Crop Summary

September 18 to 24

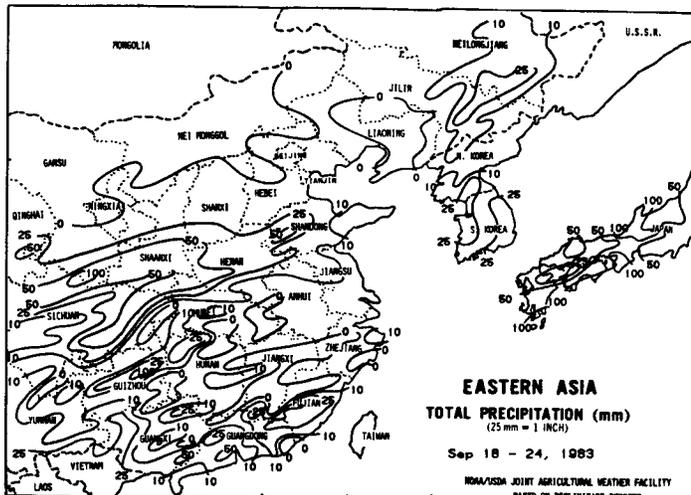


1. UNITED STATES ... An unseasonably early freeze and cold temperatures hinder or stop the development of young crops, but hasten drying of mature plants from the Plains through the western Corn Belt. East of the Rockies cool temperatures slow crop growth. Widespread rains over the eastern half of the Nation benefit immature plants.
2. USSR ... Moderate showers in the south improve conditions for winter grain planting in the eastern Ukraine. In the New Lands, the first freezing temperatures of the season have little effect on mature crops.
3. EUROPE ... Showers are favorable for winter wheat planting in the north, but locally heavy rain is unfavorable for maturing grains in the southeast. Dry weather aids maturing corn in southern France and Italy.
4. SOUTH ASIA ... Monsoon activity is heaviest in central India, favoring cotton and groundnuts. Moderate rains benefit most rice areas. Pre-planting moisture is falling in northern wheat areas.
5. EASTERN ASIA ... Mostly dry weather is unfavorable for late double-cropped rice in southern China. Moderate precipitation in central China slows maturing crops.
6. AUSTRALIA ... Mild, dry weather aids wheat which is advancing from vegetative growth into the reproductive stage across the grain belt.
7. CANADA ... Cold weather with heavy frost slows Canadian Prairie grain harvest. Milder, dry weather is needed to finish crop harvesting.
8. SOUTH AMERICA ... Heavy rain drenches Brazil's crop areas, adversely affecting the coffee harvest, wheat development, and summer crop planting. Dry, cool weather in Argentina slows wheat growth; warmer weather is needed for summer crop planting.
9. MEXICO ... Light rains help but more are needed across most of the Southern Plateau corn belt, western mountain watersheds, and northeastern citrus orchards.
10. SOUTHEAST ASIA ... Heavy rain in central Thailand is unfavorable for maturing crops. Late-planted rice in the heading stage is aided by the continuing moisture.



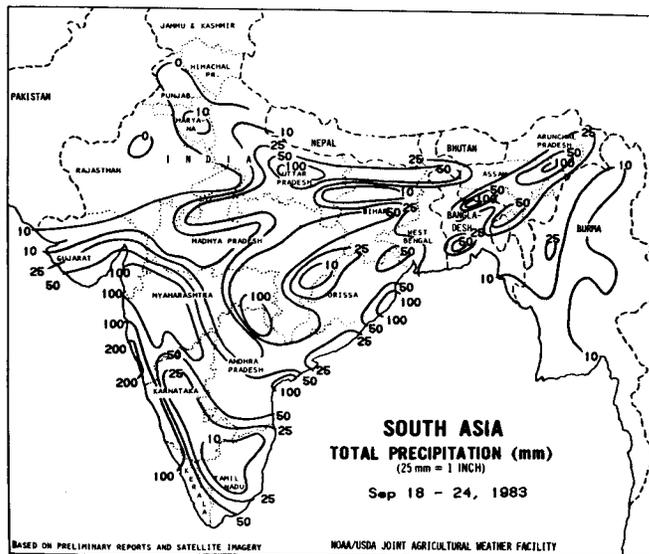
WESTERN USSR... Most precipitation this week was confined to western and southern European USSR. Moderate to light rain fell from the Baltic States to the western Central Region further improving soil moisture conditions for emergence and early development of winter grains. Moderate showers greatly benefited crop areas in the eastern Ukraine and central North Caucasus where winter grain planting-moisture had been inadequate. Dry weather continues to delay planting in the western Ukraine, northern North Caucasus, and the lower Volga Valley, however, these conditions aided harvesting activities. Temperatures were above normal in most of western USSR this week. Continued mild weather is needed to allow late-planted crops in the South to develop sufficiently for over-wintering.

In the New Lands, mostly dry weather covered the western half of the region, allowing final harvest efforts to progress with few delays. In contrast, cold, wet weather in the north-central and eastern spring grain areas likely caused some delays in the harvest. In addition, the first hard freeze of the season occurred over the eastern half of the region. However, a freeze is normal for this time of year and had little impact on mature grain. Weekly coverage of the New Lands will be suspended until next spring's planting season.

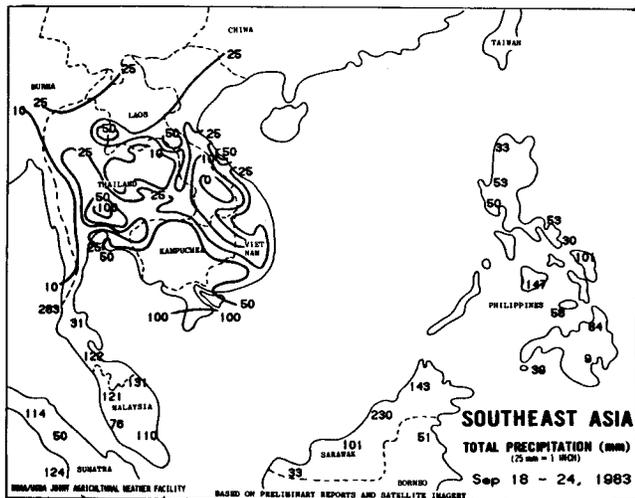


EASTERN ASIA... Mostly dry weather in southern China was unfavorable for late double-cropped rice in the heading stage. However, moderate rain benefited rice in Guangdong and Fujian this week. The position of the dominant band of precipitation in central China has fluctuated north and south from the Yangtze Valley during the past few weeks. Moderate to heavy rain from this system has been unfavorable for maturing cotton, corn, and soybeans although the movement has allowed some beneficial drying following a wet period. The band of rain extended into western Shandong, improving moisture conditions for winter wheat planting. Relatively dry weather was favorable for maturing corn and soybeans in Manchuria. Temperatures continued above normal in most of China, creating favorable conditions for the delayed southern rice crops. Late in the week, Typhoon Forrest brought heavy rain to the coastal areas of southern Japan, localized flooding likely occurred.

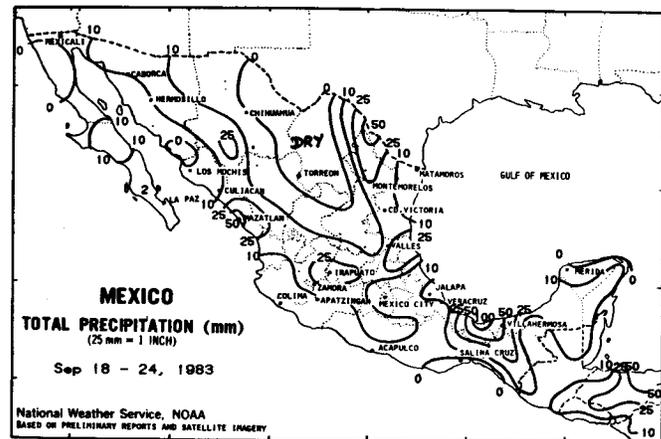
passed to the northeast of the islands late in the week and had no impact on northern Luzon. Moderate showers benefited rice in central Luzon.



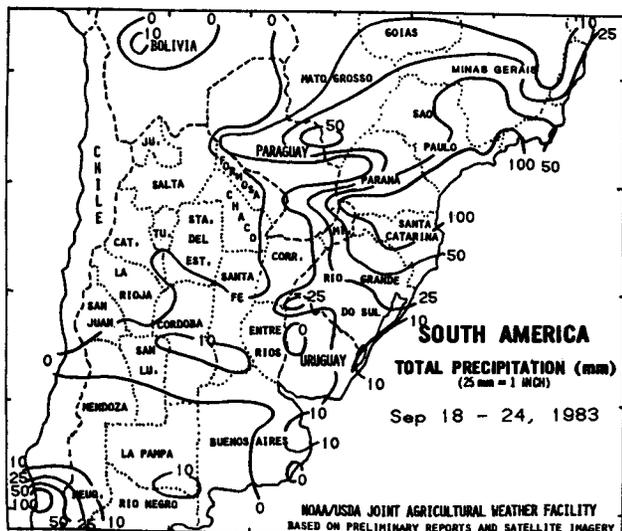
SOUTH ASIA... Precipitation continued over most of India this week. In the north, localized heavy rain fell again in Uttar Pradesh increasing soil moisture following earlier below normal accumulations. Temperatures were slightly below normal in the north this week, while peninsular India was slightly warmer than usual. Heavy rain benefited cotton and groundnuts in Gujarat and Myaharashtra. The crops, while in the early reproductive stage, endured a relatively dry period with the aid of earlier above-normal precipitation. This week's rain has replenished soil moisture and maintained the high yield potential of the crops. Scattered rain in the rice areas favored the autumn and winter crop in the late and early reproductive stages respectively. Heavy precipitation persisted on the western coast, benefiting autumn rice.



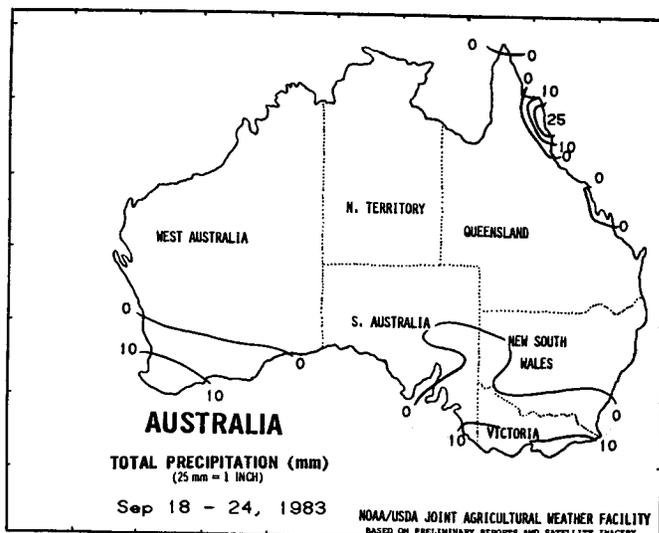
SOUTHEAST ASIA... Dry weather prevailed early in the week over much of Indochina. Later in the week heavy rain fell in Kampuchea, southern Vietnam, and central Thailand. Northeastern Thailand and Laos remained virtually dry. Slightly-above normal temperatures were recorded in most of Thailand. The rain in central Thailand was unfavorable for the corn harvest which is normally completed by this time, but is likely continuing later than usual because of earlier planting delays. Late-planted rice in the heading stage benefited from the rain. Scattered rain fell throughout the Philippines. Typhoon Forrest



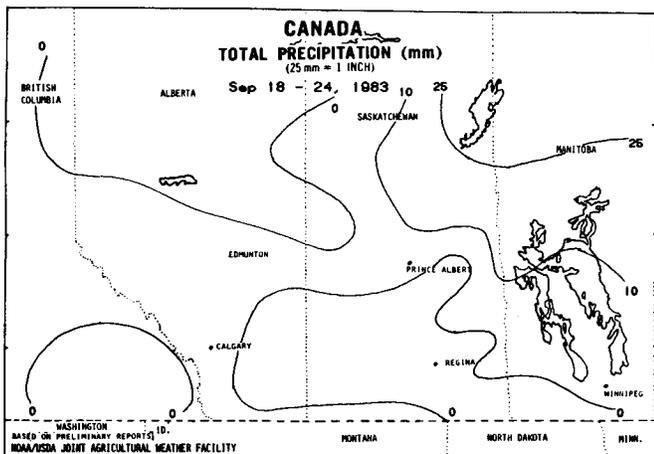
MEXICO... Rains were mostly light across the southern Plateau corn belt and western mountain watersheds. Immature crops needed more rain, especially in the eastern Southern Plateau. The upper northeastern region also received light amounts, except along portions of the border where isolated heavy showers fell. Dryness continued over most of the remaining northern regions, stressing rangeland vegetation and livestock. The rainy season persisted over southeastern Mexico and extended into Central America.



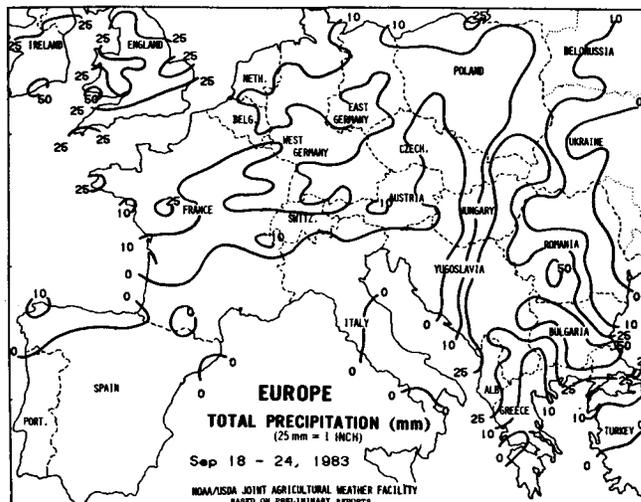
SOUTH AMERICA...Heavy rain fell over Brazil drenching the wheat areas of the south and the coffee areas in the north. The excessive moisture, which came from two separate storm systems, adversely affected the quality of the coffee harvest and may have damaged early maturing wheat in Parana and Santa Catarina. The wet weather also delayed early planting of cotton in Sao Paulo and Parana, and corn in Santa Catarina. Drier weather is needed in Brazil for fieldwork. In contrast, Argentina's crop areas were mostly dry, except for a small area of showers across central Cordoba and southern Santa Fe. Some frost likely occurred during midweek over the wheat area, slowing vegetative growth. Warmer weather is needed for wheat growth, and for planting of summer crops which usually begins in late September.



AUSTRALIA...Mostly dry weather covered Australia's wheat belt as showers were confined mostly to the southern coast of the continent. The dryness improved growing conditions over Victoria and southern New South Wales where earlier wetness and cool weather slowed crop development and favored fungal diseases. Mild weather across the grain belt aided vegetative growth and pushed an increasing percentage of the northern wheat crop into the reproductive cycle. In Queensland, the dry weather aided the early wheat harvest in central portions of the State while promoting grain development in the major crop area of the Southeast. In general, crop conditions are rated good to very good throughout the Australian wheat belt.



CANADA...Only light, scattered showers dotted the Prairie Provinces but cold weather slowed the crop harvest. Weekly temperatures averaged 2° to 5° below normal for the week with widespread, heavy frost reported throughout the grain belt. In Saskatchewan, the overall grain harvest is over 75 percent complete, but cold, wet weather in the northern and east-central portions has caused some deterioration in the quality of unharvested crops. The harvest is nearly complete in Manitoba and southern crop areas of Alberta, but the weather has hampered harvesting in northern crop areas of Alberta. A week of relatively mild, dry weather is needed to complete the major portion of the Prairie crop harvest.

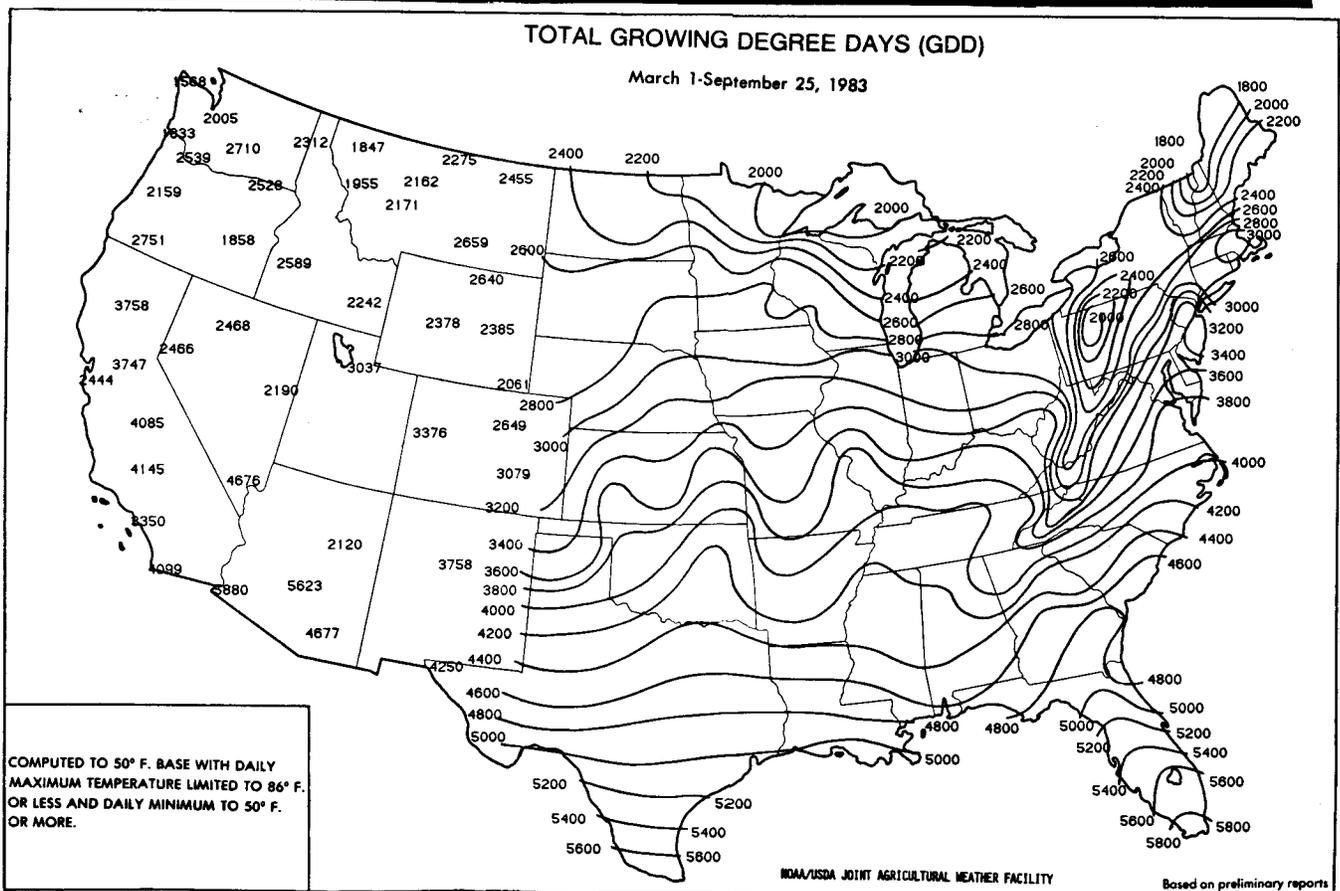


EUROPE...Showers covered the United Kingdom, northern France, the Benelux countries, West Germany, and all of central and eastern Europe. Locally heavy rain fell over extreme southern Poland, western Romania, Bulgaria, and isolated areas of Yugoslavia. Flooding and some hail damage were reported in Bulgaria's southern crop area. Dry weather prevailed over the remainder of Europe. Topsoil moisture is adequate for winter crop planting across most of northern Europe. Dry weather over Italy and southern France aided maturing corn, following earlier wet weather. The moisture over southeastern Europe improved topsoil conditions for winter wheat planting, but delayed summer crop harvesting. Weekly temperatures generally averaged near to slightly-above normal over most of the continent.



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