

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

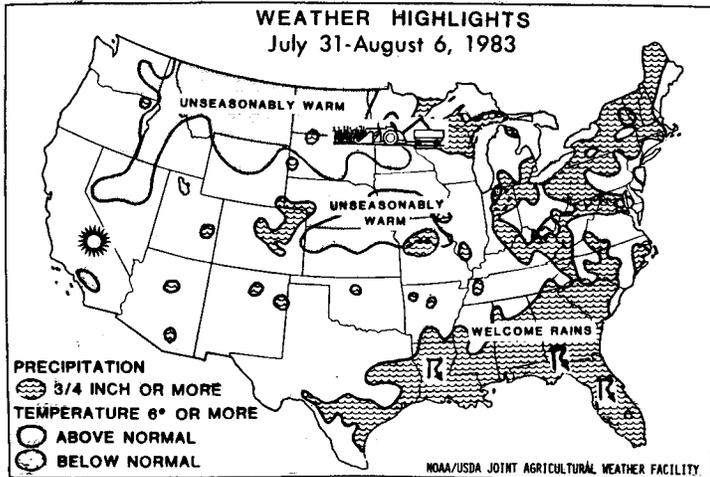
Volume 70, No. 32

WASHINGTON, D.C.

Aug. 9, 1983

National Weather Summary

July 31 to August 6



TUESDAY...Some moderate showers covered the western end of the Great Lakes and lighter amounts covered the northern Plains and upper Mississippi Valley. Heavy showers and thunderstorms covered the Gulf Coast near the mouth of the Mississippi River and adjacent coastal areas, and a few moderate showers fell in the dry parts of central South Carolina. Temperatures rose to 100° or more in the central Plains, and temperatures in the upper nineties spread into Iowa.

WEDNESDAY...Afternoon temperatures of 100° or higher spread from the central Plains into southern Iowa and to the northern Plains. Temperatures in the middle to upper nineties surrounded these areas and reached into Indiana. Light showers spread from the central Rockies to southern Wisconsin and northern Illinois and eastward through the Lakes and into Pennsylvania. There were showers and thunderstorms from eastern Texas through the Southeast and up the east coast.

THURSDAY...Showers and thunderstorms were very widely scattered from eastern Texas across the South and up the east coast to southern New England. Significant amounts of rain were isolated within all of these areas. Light showers were more widespread across the lower Great Lakes States but also with only isolated significant amounts. Some moderate to heavy showers fell along the shores of Lake Erie and Huron. Hot afternoon temperatures continued in the western and southern Corn Belt.

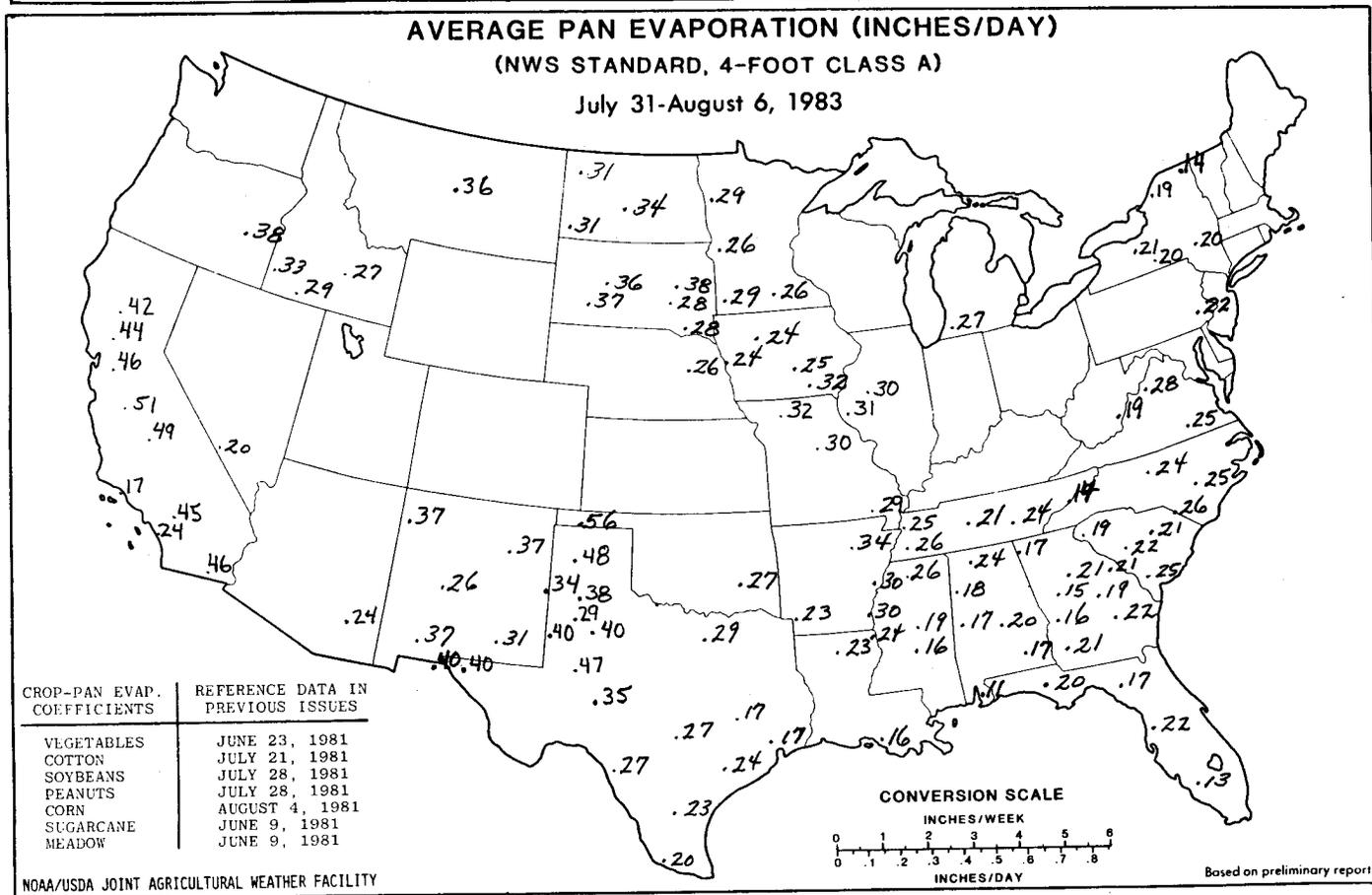
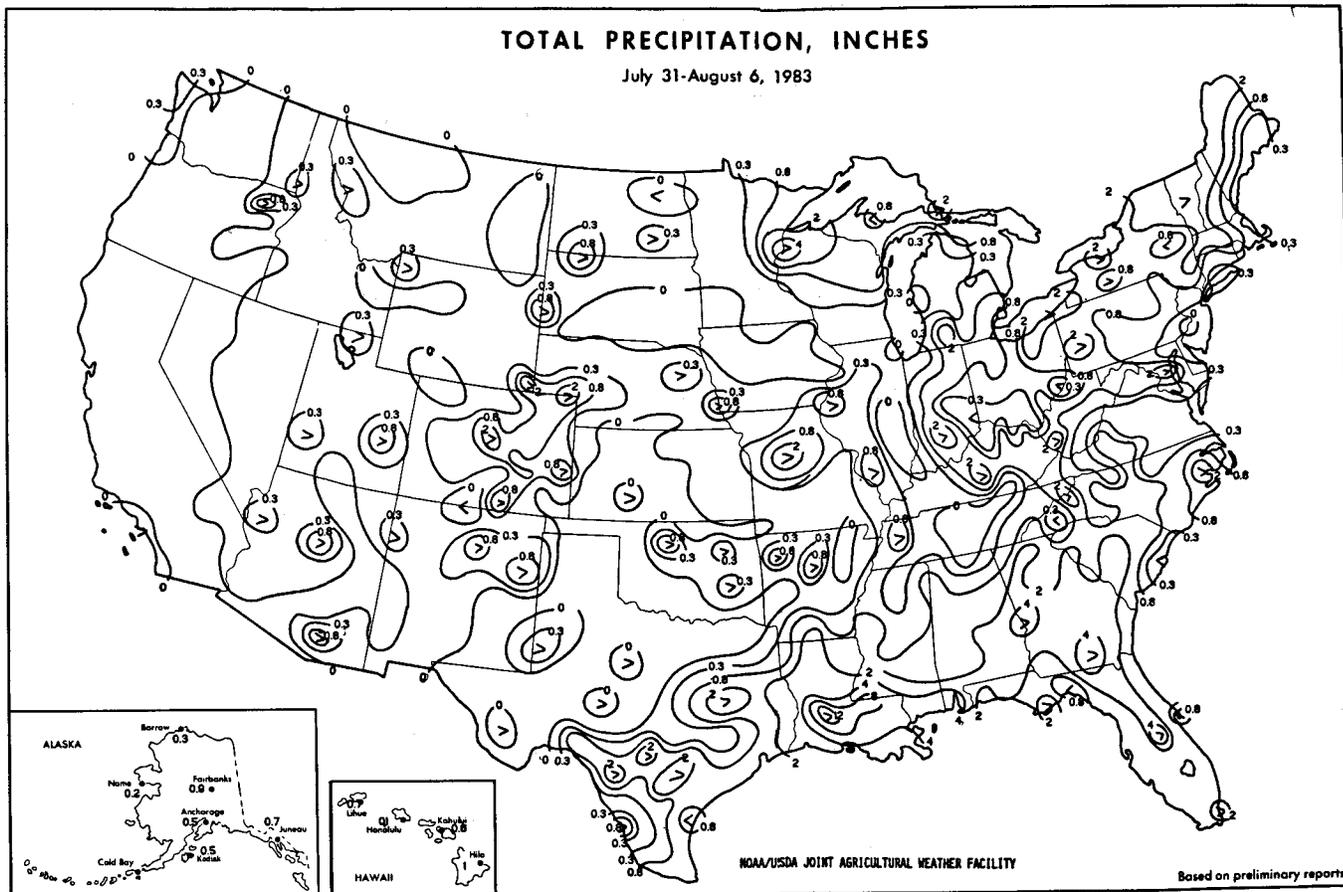
HIGHLIGHTS: Much needed precipitation fell over the southern and southeastern United States. Amounts of over two inches accumulated in the driest sections of the Carolinas and Georgia. Some moderate amounts of rain accumulated in parts of the eastern Corn Belt but unusually warm weather increased the demand for current rain. Only light showers fell in the western part and the very warm weather sapped the dwindling soil moisture reserves. Average temperatures were 3-6° above normal over most of the Corn Belt, and 9-11° above normal in much of the northern Plains.

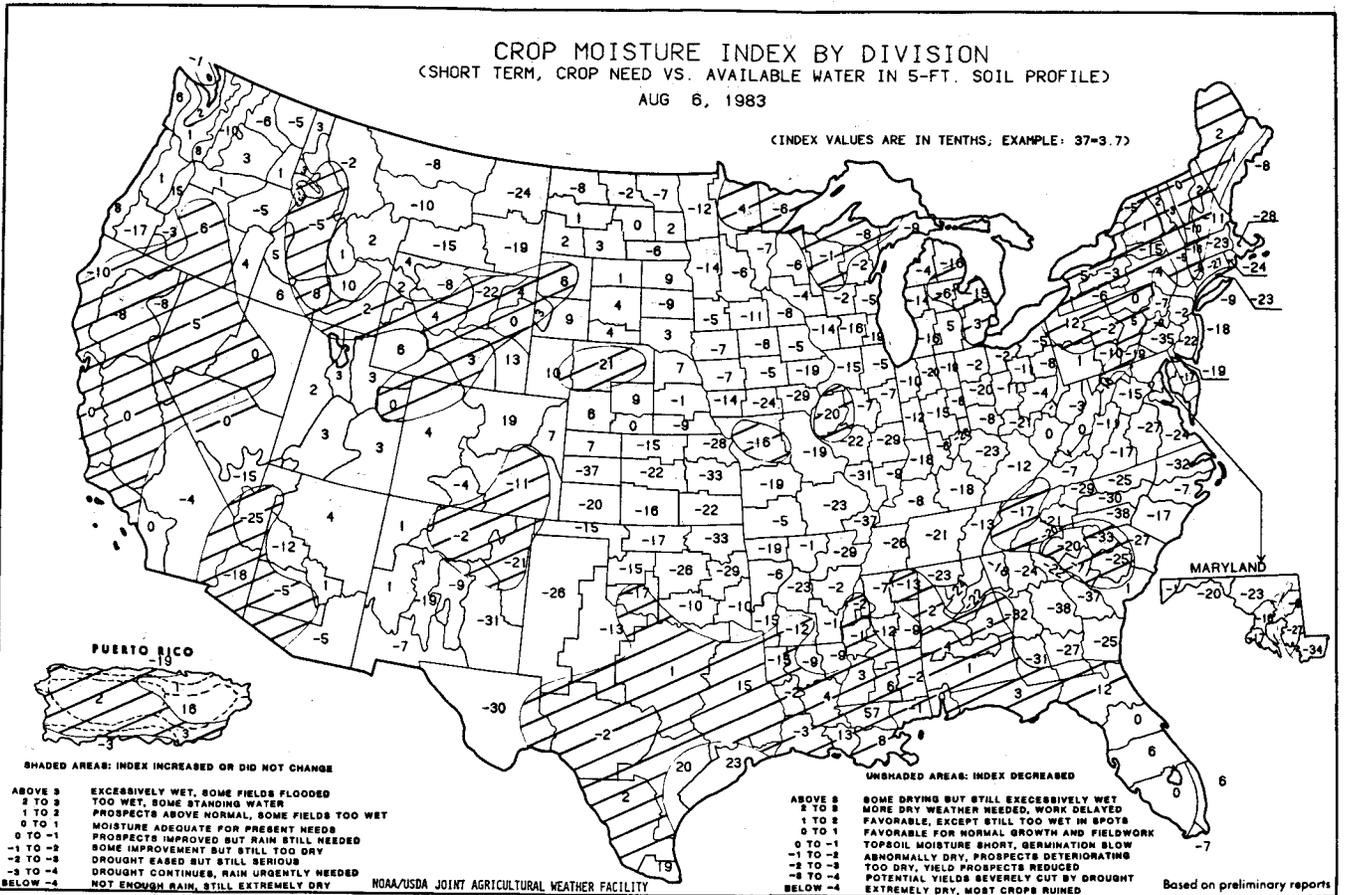
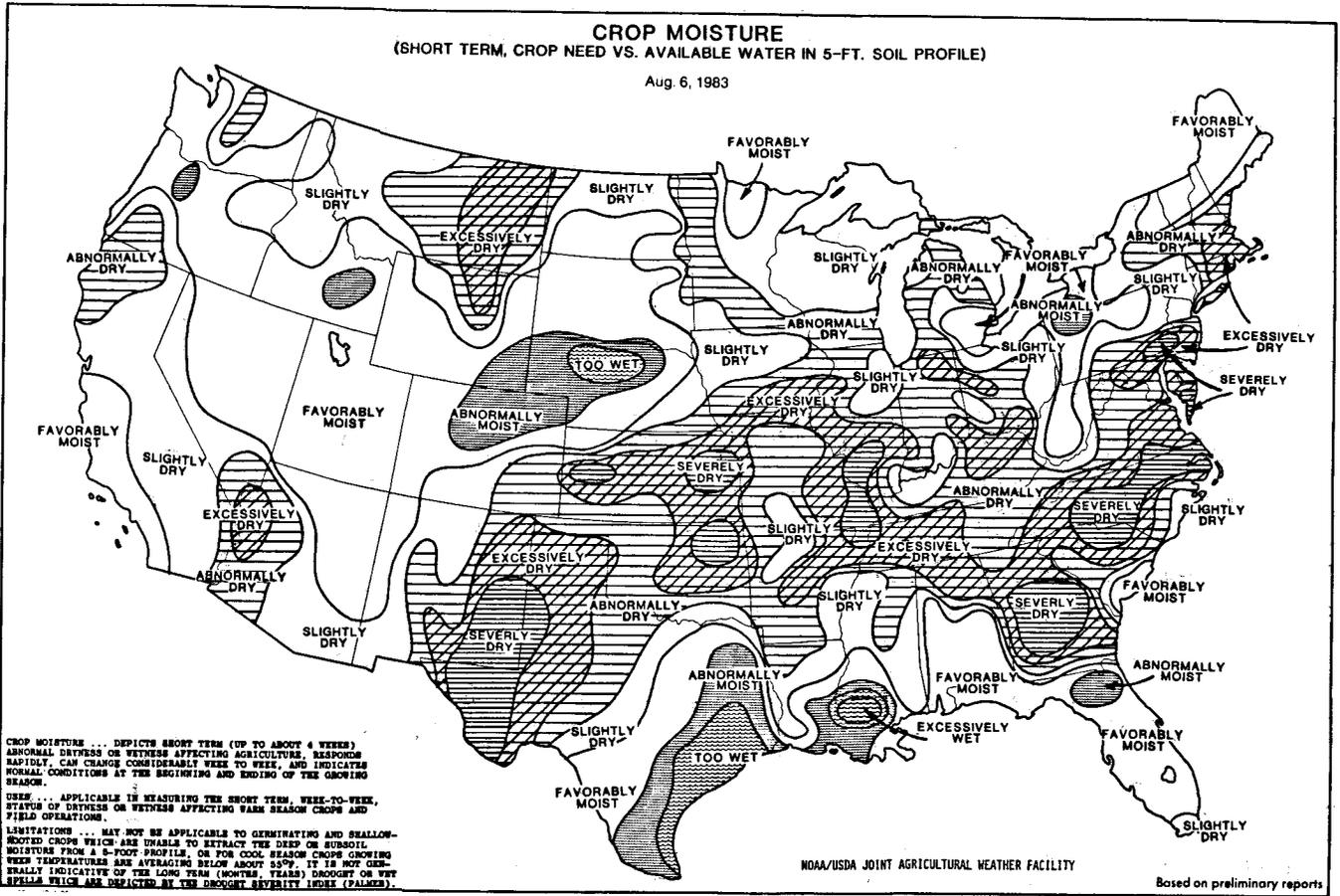
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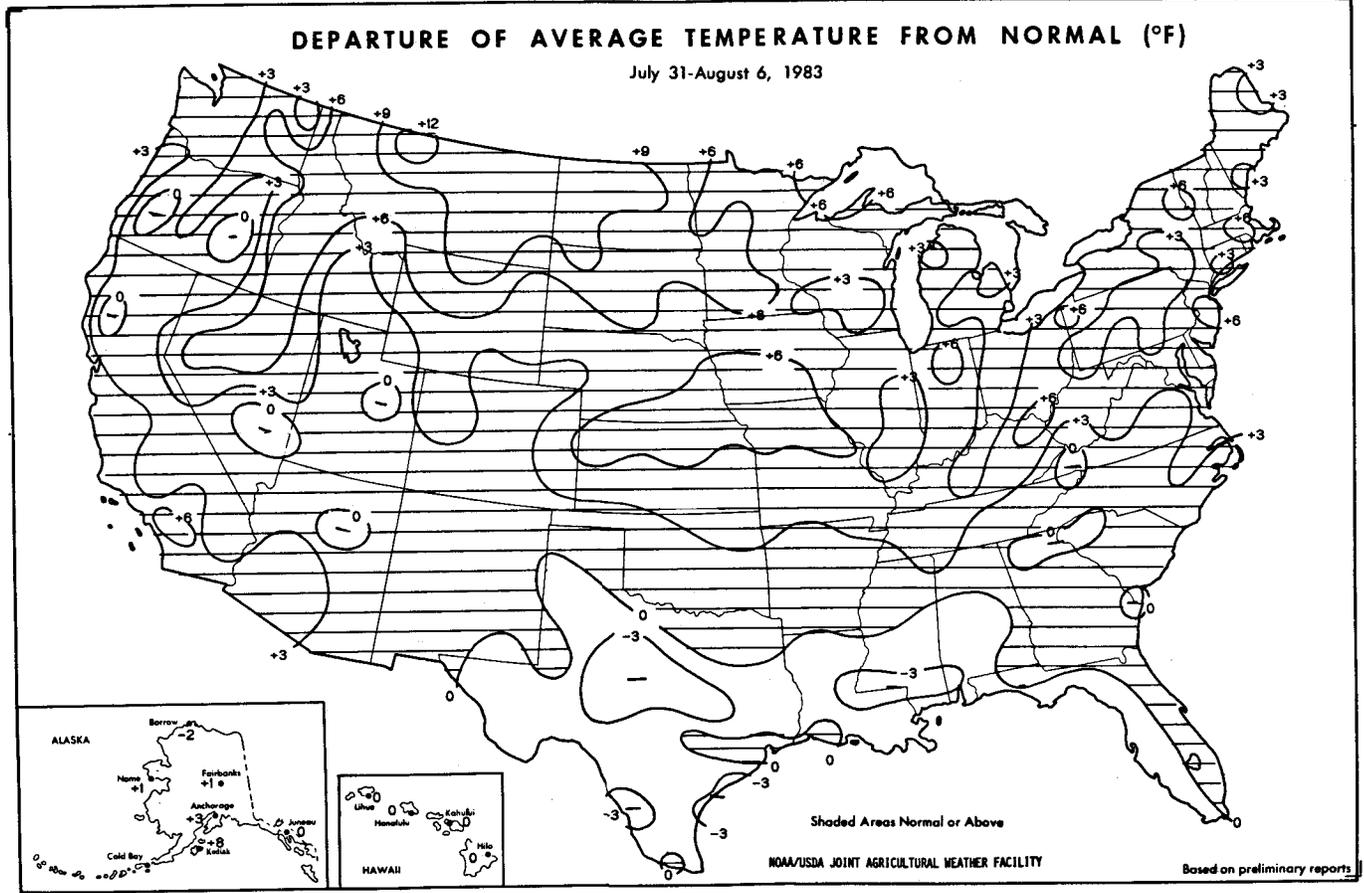
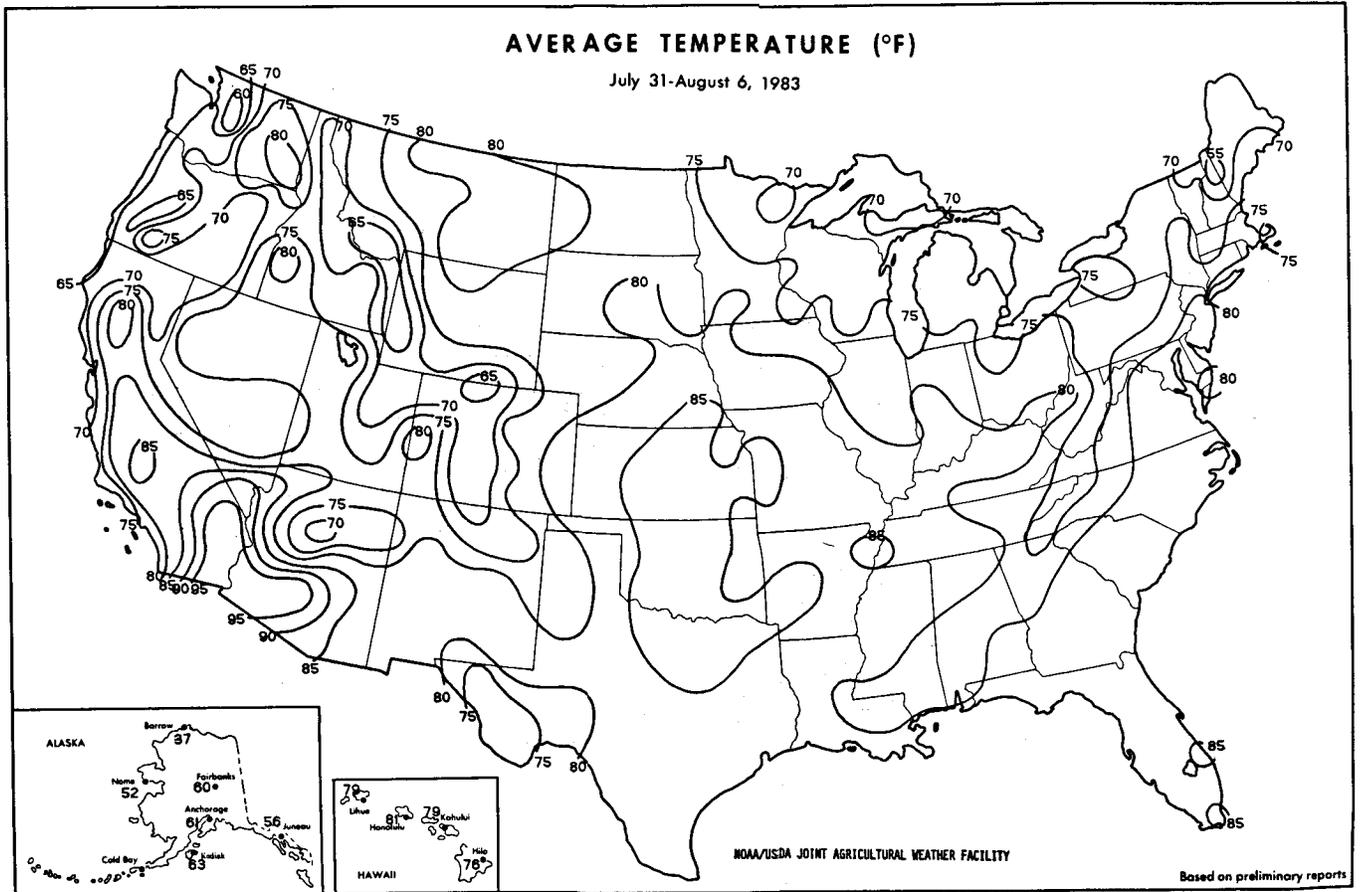
SUNDAY...Rain was scarce over the Nation. Numerous but widely scattered thunderstorms generally produced trace or light amounts of rain. Some moderate amounts fell in isolated areas of Indiana and Michigan, from northeastern Ohio into Pennsylvania, and from northern New York and central New England into Canada. Parts of the southeastern Gulf Coast States had moderate showers. Parts of the Southeast and northern Plains were relatively cool, but temperatures in the Corn Belt rose into the nineties.

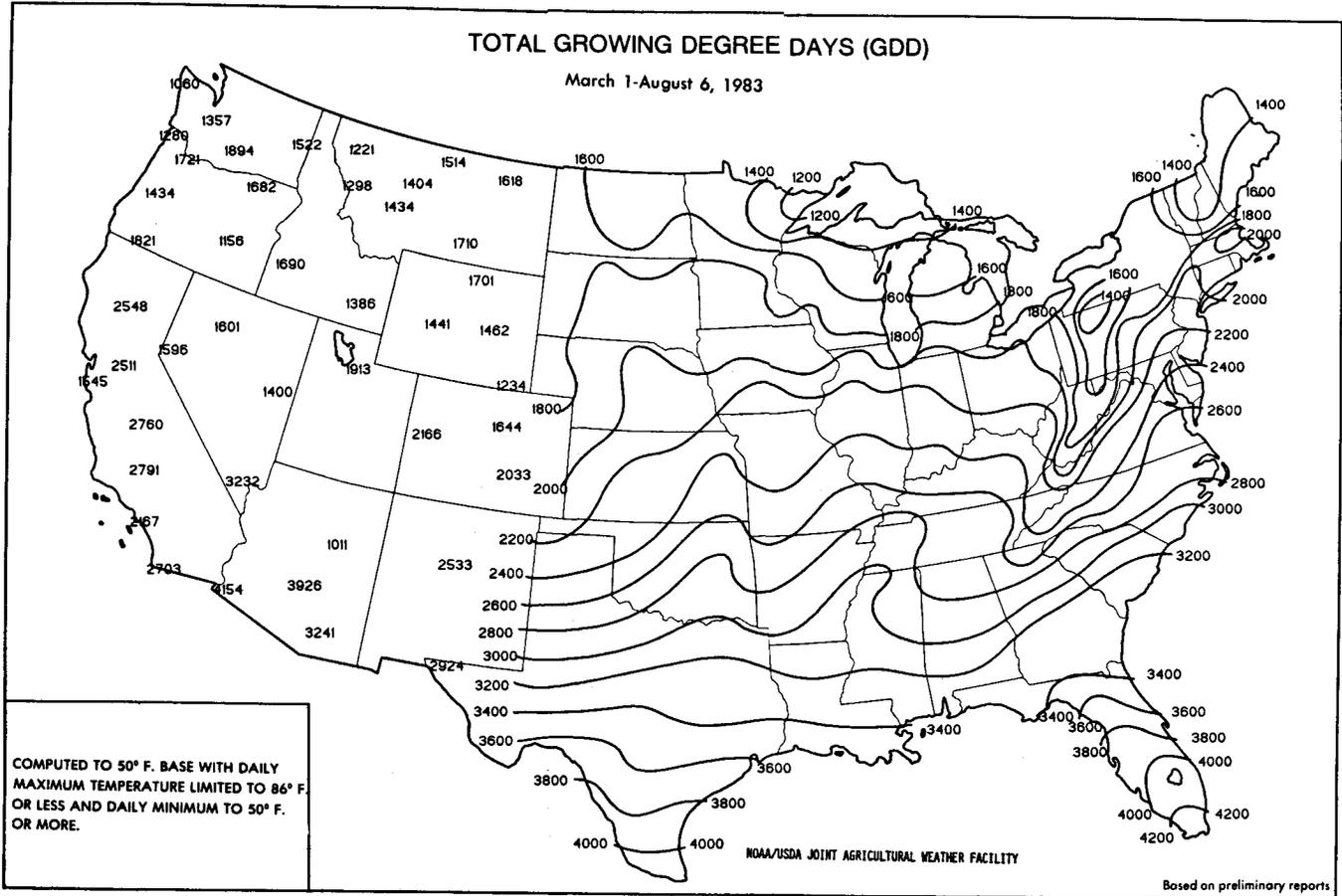
MONDAY...Moderate to heavy showers fell in the Southeast and covered the very dry areas. A smaller area of light to moderate showers fell from central West Virginia to central New York. Light, widely scattered showers covered the rest of the East Coast States, the South, and the Rocky Mountains. Most of the Corn Belt States cooled, but afternoon temperatures were still in the low nineties from Missouri and southern Iowa to the central Ohio Valley.

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National Weather Summary (continued from front cover)

FRIDAY...Light showers and thunderstorms spread from the central Rockies into Nebraska and parts of South Dakota. Only a few isolated showers produced significant amounts of rain. Very widely scattered showers and thunderstorms covered most of the South and the East but, again, significant amounts of rain were isolated. Afternoon high temperatures were again in the middle to high nineties over the western and southern Corn Belt.

SATURDAY...Showers and thunderstorms spread through Oklahoma to southern Nebraska and from southern Iowa through Missouri. Showers were generally light but some isolated moderate amounts fell. Showers and thunderstorms were also generally light but included isolated moderate amounts all along the gulf coast, the Southeast, and the east coast. Unusual light showers and thunderstorms occurred in southern California. Ninety degree temperatures continued over most of the Corn Belt.

COOLING DEGREE DAY DATA WEEKLY SUMMARY
CLIMATE ANALYSIS CENTER-NMC-NWS-NCAA
ASSESSMENT AND INFORMATION SERVICES CENTER-NFSDIS-NOAA

* LAST DATE OF DATA COLLECTION PERIOD IS 8-6-1983
ACCUMULATIONS ARE FROM JANUARY 1
***** = NORMAL LESS THAN 100 GR RATIO INCALCULABLE

STATE CITY	CALL	WEEK TOTAL	WEEK FROM NORM	WEEK FROM L YR	CUM TOTAL	CUM FROM NORM	CUM FROM L YR	CUM FROM NORM PRCT	CUM FROM L YR PRCT
AL BIRMINGHAM	PHM	105	0	3	1043	-183	-193	-14	-15
AL MOBILE	MOR	97	-22	-11	1222	-388	-404	-24	-24
AL MONTGOMERY	MGM	106	-6	-8	1156	-237	-366	-17	-24
AZ FLAGSTAFF	FLC	8	-6	5	41	-56	18	****	****
AZ PHOENIX	PHX	227	46	16	2508	418	-31	19	-1
AZ TUCSON	TLS	158	17	21	1661	-32	114	-1	7
AZ WINSLOW	INW	106	15	1	739	-30	154	-3	26
AZ YUMA	YUM	236	31	19	2640	207	205	8	8
AR FORT SMITH	FSM	135	9	8	1008	-261	-84	-20	-7
AR LITTLE ROCK	LIT	131	12	4	1119	-107	-151	-8	-11
CA BAKERSFIELD	PFL	151	22	12	1124	-182	-561	-13	-33
CA FRESNO	FKA	0	0	0	0	0	-3	****	****
CA FRESNO	FAT	143	37	36	1112	96	102	9	10
CA LOS ANGELES	LAX	55	21	3	277	20	61	7	28
CA RED BLUFF	RRL	122	5	29	994	-157	50	-13	5
CA SAN DIEGO	SAN	79	37	16	493	188	73	61	17
CA SAN FRANCISCO	SFO	17	13	7	81	36	45	****	****
CA STOCKTON	SCK	104	23	33	774	28	115	3	17
CO DENVER	DFN	72	10	1	405	-6	46	-1	12
CO GRAND JUNCTION	GJT	114	23	13	745	-15	-49	-1	-6
CO PUEBLO	PUR	97	16	3	614	-52	6	-7	0
CT BRIDGEPORT	PBR	80	17	28	489	34	127	7	35
CT HARTFORD	RDL	92	39	32	583	173	149	42	34
DC WASHINGTON	DCA	135	39	37	1028	117	66	12	6
FL APALACHICOLA	ACC	112	-7	-5	1303	-285	-214	-17	-14
FL DAYTONA BEACH	DAB	115	0	-5	1324	-353	-298	-21	-18
FL FORT MEYER	FMY	113	-8	-8	1754	-380	-804	-17	-31
FL JACKSONVILLE	JAX	113	1	-13	1288	-259	-436	-16	-25
FL KEY WEST	FYW	126	-14	-13	2284	-591	-890	-20	-28
FL MIAMI	MIA	130	4	-10	2218	-87	-542	-3	-19
FL ORLANDO	MCO	127	8	-1	1737	-144	-394	-7	-18
FL TALLAHASSEE	TIF	119	0	3	1371	-211	-207	-13	-13
FL TAMPA	TPA	124	5	2	1752	-219	-217	-11	-11
FL WEST PALM BEACH	PRI	140	21	10	2076	-67	-402	-3	-16
GA ATLANTA	ATL	100	9	13	1007	10	-138	1	-12
GA AUGUSTA	AGS	119	8	24	1182	-97	-114	-7	-8
GA MACON	MGN	122	3	22	1423	-46	-4	-3	0
GA SAVANNAH	SAV	113	0	4	1411	-40	-98	-2	-6
ID BOISE	BOI	120	50	76	399	-64	49	-13	13
ID LEWISTON	LWS	112	50	51	420	1	-70	0	-14
IL PEORIE	PIH	59	7	20	214	-92	1	-30	0
IL CHICAGO	ORD	86	30	8	648	206	166	46	34
IL MCHIGAN	MLI	98	28	2	808	193	210	31	35
IL PEORIA	PIA	106	36	15	832	177	171	27	25
IL ROCKFORD	RFD	93	34	12	707	220	180	45	34
IL SPRINGFIELD	SPT	102	25	-2	873	126	91	16	11
IN EVANSVILLE	FVV	123	32	19	974	53	29	5	3
IN FORT WAYNE	FWA	95	39	24	767	262	251	51	48
IN INDIANAPOLIS	IND	106	36	16	791	131	106	19	15
IN SOUTH BEND	SBN	96	40	31	764	301	269	65	54
IA DES MOINES	DSM	128	54	21	910	280	265	44	41
IA DUBUQUE	DBQ	84	31	10	577	159	129	38	28
IA SIoux CITY	SUX	113	36	0	648	-2	64	0	10
KS CONCORDIA	CNK	152	54	10	867	34	16	4	1
KS DOGEE CITY	DDC	145	40	20	1008	98	148	10	17
KS GOCDLAND	GLO	130	50	39	695	84	222	13	46
KS TOPEKA	TOP	132	34	24	950	54	202	6	27
KS WICHITA	ICT	145	28	-3	901	-173	-21	-16	-2
KY LEXINGTON	LFX	110	33	24	836	47	89	5	11
KY LOUISVILLE	SDF	115	31	20	911	84	99	10	12
LA BATON ROUGE	BTR	97	-22	-20	1286	-326	-590	-20	-31
LA LAKE CHARLES	LCH	123	-3	-8	1431	-255	-243	-15	-15
LA NEW ORLEANS	MSY	105	-16	-7	1365	-294	-519	-17	-27
LA SHREVEPORT	SHV	125	-8	-6	1244	-310	-349	-19	-21
ME CARBON	CAR	28	14	22	167	66	20	65	13
ME PORTLAND	PWM	42	14	30	270	104	91	62	50
MD BALTIMORE	BWI	117	36	41	870	96	118	13	16
MA BOSTON	BOS	90	34	44	709	244	276	59	63
MI ALPENA	APN	39	11	30	343	194	209	130	155
MI DETROIT	DTW	67	12	8	519	75	122	16	30
MI FLINT	FNT	54	19	-1	485	185	110	61	29
MI GRAND RAPIDS	GRP	61	12	-7	517	124	67	31	14
MI HOUGHTON LAKE	HTL	43	18	17	358	182	168	103	88
MI LANSING	LAN	57	11	6	489	121	138	32	39
MI MARQUETTE	MOT	30	16	21	273	182	189	****	****
MI MUSKEGON	MKG	61	19	2	487	181	146	59	42
MI SAULT ST MARIE	SSM	29	8	27	242	154	204	****	****
MN DULUTH	DLH	46	25	32	263	145	193	122	275
MN INT'L FALLS	INL	42	22	18	285	148	160	108	127
MN MINNEAPOLIS	MSP	99	47	-5	622	205	103	49	19
MN ROCHESTER	RST	61	19	-22	465	123	79	35	20
MN SAINT CLOUD	STC	66	24	-26	437	129	112	41	34
MS JACKSON	JAN	114	-5	4	1258	-209	-369	-14	-22
MS MERIDIAN	MET	104	-15	-6	1051	-374	-483	-26	-31
MO COLUMBIA	COU	117	26	14	808	-33	69	-3	9
MO KANSAS CITY	MCI	143	52	18	877	45	75	5	9
MO SAINT LOUIS	STL	139	41	14	1065	88	106	9	11
MO SPRINGFIELD	SCF	121	23	-3	857	-25	-62	-2	-6
MT BILLINGS	PIB	118	62	22	441	104	119	31	30
MT GLASGOW	GGW	123	74	54	411	114	142	38	52
MT GREAT FALLS	GTF	100	65	66	201	-16	50	-7	33
MT HAVRE	HVR	110	69	70	249	-21	79	-7	46
MT HELENA	HLN	72	44	25	196	29	-16	17	-7
MT KALISPELL	KCA	46	32	35	67	-5	12	****	****
MT MILLS CITY	MIS	138	62	32	604	105	154	21	34
MT MISSOULA	MFO	169	48	46	109	-16	-14	-12	-11
NE GRAND ISLAND	GRI	136	52	31	787	94	215	13	37
NE LINCOLN	LNK	141	50	15	895	118	187	15	26
NE OMAHA	OMA	102	25	-3	719	90	187	14	35

STATE	CITY	CALL	WEEK TOTAL	WEEK DEVI FROM NORM	WEEK DEVI FROM 1 YR	CUM TOTAL	CUM DEVI FROM NORM	CUM DEVI FROM 1 YR	CUM DEVI FROM NORM PRCT	CUM DEVI FROM 1 YR PRCT
NE	NORTH PLATTE	LBF	95	25	7	527	-22	54	-4	11
NE	OMAHA	OMA	122	31	5	785	-3	158	-0	25
NF	VALFATINE	VTN	102	32	-2	540	37	77	7	16
NV	ELY	FLY	49	28	-25	126	-6	12	-4	10
NV	LAS VEGAS	LAS	180	8	0	1718	-99	-14	-5	0
NV	RENO	RNC	72	38	61	205	-22	-47	-9	-17
NV	WINNEMUCCA	WMC	80	39	53	218	-69	-72	-24	-24
NH	CONCORD	CON	64	29	32	330	81	106	32	47
NJ	ATLANTIC CITY	ACY	116	46	29	763	197	97	34	14
NM	ALBUQUERQUE	ARQ	103	10	24	911	43	52	4	6
NM	ROSWELL	RCW	116	17	10	1078	40	-38	3	-3
NY	ALBANY	ALB	71	22	43	429	20	180	4	72
NY	BINGHAMTON	PCM	64	31	36	418	160	179	62	74
NY	BUFFALO	PUF	72	32	42	515	218	225	73	34
NY	NEW YORK	IGA	107	24	34	748	65	193	10	77
NY	ROCHESTER	ROC	70	25	36	485	120	160	32	49
NY	SYRACUSE	SYR	56	9	30	408	35	165	9	67
NC	ASHEVILLE	AVL	75	12	20	567	-4	-117	0	-17
NC	CAMP HATTERAS	HAT	113	22	28	913	23	-23	2	-2
NC	CHARLOTTE	CLT	104	6	20	968	-53	-86	-5	-8
NC	GREENSBORO	GSO	100	16	19	772	-117	-79	-13	-9
NC	RALPHIGH DUPHAM	RDU	105	14	11	879	-27	-175	-2	-16
NC	WILMINGTON	ILM	123	14	24	1106	-115	0	-9	0
ND	BISMARCK	BIS	88	29	18	383	46	136	13	55
ND	FARGO	FAR	79	32	-10	479	150	177	45	58
ND	WILLISTON	ISN	120	78	50	501	212	147	73	41
OH	AKRON-CANTON	CAK	72	23	8	543	116	69	27	14
OH	CLEVELAND	CLF	76	28	16	587	174	117	42	24
OH	COLUMBUS	CMH	82	22	13	626	78	91	14	17
OH	CINCINNATI	CVG	94	17	2	772	65	83	9	12
OH	DAYTON	DAY	81	13	6	618	-6	35	0	6
OH	TOLLEDO	TOL	68	14	6	517	54	93	11	21
OH	YOUNGSTOWN	YNG	75	33	24	495	143	146	40	41
OK	OKLAHOMA CITY	OKC	140	15	7	1023	-141	1	-12	0
OK	TULSA	TUL	157	31	-4	1270	58	-110	-4	-7
OR	ASTORIA	AST	0	-4	0	1	-13	-5	****	****
OR	PURNS	BND	18	-12	12	70	-125	-78	-64	-52
OR	MEDFORD	MFR	71	22	38	337	-7	-60	-2	-15
OR	PENDLETON	PDT	80	19	48	313	-114	-104	-26	-24
OR	PORTLAND	PDY	43	15	27	187	-4	-45	2	-19
OR	SALEM	SLE	25	4	20	100	-46	-74	-31	-42
PA	ALLENTOWN	ABE	93	32	36	642	114	214	21	50
PA	FRIE	FRI	65	30	23	448	198	152	-79	51
PA	HARRISBURG	CXY	86	10	12	590	-102	105	-14	21
PA	PHILADELPHIA	PHL	115	34	24	786	61	102	8	14
PA	PITTSBURGH	PIT	68	19	15	453	10	53	2	13
PA	SCRANTON	AVP	66	17	20	430	13	101	3	30
RI	PROVIDENCE	PVD	103	54	60	635	283	252	80	65
SC	CHARLESTON	CHS	123	18	18	1278	-19	-51	-1	-3
SC	COLUMBIA	CAF	117	5	24	1191	-141	-40	-10	-3
SC	GREENVILLE	GSP	96	-1	23	884	-135	-57	-13	-6
SD	ARFPDFEN	ARF	99	43	3	525	134	78	34	17
SD	HURON	HON	105	26	4	598	101	114	20	23
SD	RAPID CITY	RAP	91	28	25	446	18	173	4	63
SD	SIOUX FALLS	FSD	95	22	-6	604	108	157	21	35
TN	CHATTANOOGA	CHA	115	17	27	932	-123	-101	-11	-9
TN	KNOXVILLE	TYS	102	9	16	827	-183	-50	-18	-5
TN	MEMPHIS	MEM	137	18	-4	1246	-63	-267	-4	-17
TN	NASHVILLE	BNA	128	23	32	1010	-85	-36	-7	-3
TX	ABILENE	ABI	124	-16	-31	1343	-201	-218	-13	-13
TX	AMARILLO	AMA	104	6	3	796	-130	-16	-14	-1
TX	AUSTIN	AUS	142	-3	-23	1436	-352	-559	-19	-28
TX	ROCKWELLVILLE	RFC	133	-7	-24	2176	-177	-563	-7	-20
TX	COPPER CHRISTI	CRP	128	-19	-20	1756	-343	-361	-16	-17
TX	DEL RIO	DRT	136	-18	-28	1922	-215	-186	-10	-8
TX	EL PASO	FLP	128	9	-1	1236	-146	-226	-10	-15
TX	FORT WORTH	DFW	147	-7	-10	1326	-361	-261	-21	-16
TX	GALVESTON	GLS	136	3	-3	1568	-189	-234	-10	-12
TX	HOUSTON	HAF	127	-6	-20	1438	-315	-570	-17	-28
TX	LURBOCK	LBR	93	-12	-15	990	-106	-43	-9	-4
TX	MIDLAND ODESSA	MAF	127	1	-2	1432	17	34	1	2
TX	SAN ANGELO	SJT	108	-39	-43	1359	-356	-36	-20	-2
TX	SAN ANTONIO	SAT	124	-20	-33	1509	-353	-354	-18	-19
TX	VICTORIA	VCT	127	-13	-31	1636	-261	-434	-13	-20
TX	WACO	ACT	133	-21	-42	1439	-303	-381	-17	-20
TX	WICHITA FALLS	SPS	147	-7	9	1259	-359	-92	-22	-6
UT	SALT LAKE CITY	SLC	107	20	7	625	34	23	5	3
VT	BURLINGTON	RTV	60	25	37	389	106	163	37	72
VA	LYNCHBURG	LYH	99	22	25	727	-5	45	0	6
VA	KREEK	KRF	121	30	29	953	41	21	6	2
VA	RICHMOND	RIC	106	15	9	987	91	31	10	3
VA	ROANCKE	ROA	100	30	24	684	10	-20	1	-2
WA	QUILLAYUTE	UIL	0	0	0	4	-4	-6	****	****
WA	SEATTLE-TACOMA	SFA	15	1	12	62	-26	-25	****	****
WA	SPCKANE	SFG	71	30	35	221	-32	-86	-17	-28
WA	WALLA WALLA	ALW	111	34	51	479	-75	-132	-13	-21
WA	YAKIMA	YKM	68	26	45	281	-50	-39	-15	-12
WV	BECKLEY	BKX	52	17	21	335	7	32	2	10
WV	CHARLESTON	CRW	94	24	48	726	40	206	5	35
WV	HUNTINGTON	HTS	114	23	11	681	-10	-45	-1	-6
WV	PARKERSBURG	PKR	93	23	17	409	136	148	49	56
WI	GREEN BAY	GRR	56	17	26	609	124	127	25	26
WI	LACROSSE	LSF	72	12	-15	509	187	215	58	73
WI	MADISON	MSN	55	13	-4	509	187	215	58	73
WI	MILWAUKEE	MKE	76	34	23	551	260	263	89	91
WY	CASPER	CPR	82	32	10	321	20	25	6	8
WY	CHEYENNE	CYS	41	6	3	164	-60	3	-26	1
WY	LANDER	LND	75	27	-5	289	30	-25	11	-7
WY	SHERIDAN	SHR	106	57	32	412	117	146	39	54

(see back cover for more information)

Weather Data for the Week Ending Aug. 6, 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 MAY 29	PCT. NORMAL SINCE MAY 29	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	89	70	94	68	80	-1	1.6	.6	1.2	5.5	54	39.8	109	92	51	3	0	4	1	
MOBILE	86	71	91	69	79	-3	6.2	4.6	1.9	15.6	107	54.3	131	93	65	3	0	5	5	
AK ANCHORAGE	90	70	94	68	80	-2	2.9	2.1	1.7	11.7	126	49.3	154	96	54	4	0	5	2	
BARROW	67	54	73	51	61	3	.5	0	.3	1.8	55	4.3	65	86	56	0	0	5	0	
FAIRBANKS	42	32	46	30	37	-2	.3	0	.2	.5	31	.8	28	99	86	0	4	2	0	
JUNEAU	67	53	71	47	60	1	.9	.5	.4	2.8	30	3.6	63	97	55	0	0	5	0	
KODIAK	63	50	66	45	56	0	0	0	.5	6.0	72	19.8	78	97	69	0	0	5	0	
NOME	71	56	78	53	63	8	.5	.6	.4	12.1	139	50.1	145	90	56	0	0	2	0	
AZ PHOENIX	55	49	56	46	52	1	.2	.5	.1	2.3	53	4.1	51	93	78	0	0	5	0	
PRESCOTT	109	85	111	82	97	5	T	.2	T	.4	36	5.6	147	55	21	7	0	1	0	
TUCSON	90	65	93	63	77	5	.3	.6	.1	.9	20	5.8	59	91	36	4	0	4	0	
YUMA	101	74	103	71	87	2	.8	.2	.6	2.8	88	7.0	117	71	24	7	0	3	1	
AR FORT SMITH	108	89	111	84	98	4	T	.1	T	0	0	1.3	108	49	23	7	0	0	0	
LITTLE ROCK	96	72	99	70	84	2	.1	.6	T	6.4	82	19.3	75	88	37	7	0	2	0	
CA BAKERSFIELD	95	72	97	70	83	1	.2	.4	.2	3.8	51	25.7	83	86	46	7	0	2	0	
EUREKA	102	71	106	66	86	2	T	0	T	0	0	+100	6.9	192	57	22	7	0	0	
FRESNO	68	56	70	53	62	5	0	.1	0	1.6	178	36.7	162	94	68	0	0	0	0	
LOS ANGELES	101	69	103	65	85	5	0	0	0	0	0	+100	16.3	243	59	22	7	0	0	
RED BLUFF	79	66	97	64	73	3	.1	.1	.1	.1	1	+100	20.7	267	85	50	1	0	1	0
SACRAMENTO	100	65	109	58	82	0	0	0	0	.2	40	29.3	234	62	18	7	0	0	0	
SAN DIEGO	94	57	100	52	76	0	0	0	0	.4	400	23.7	230	85	23	6	0	0	0	
SAN FRANCISCO	81	71	87	69	76	4	T	0	T	0	0	+100	14.2	233	82	59	0	0	0	0
CO DENVER	78	56	93	53	67	4	T	0	T	0	0	0	25.4	213	88	46	1	0	0	0
GRAND JUNCTION	88	62	90	58	75	1	.7	.3	.7	5.8	149	15.7	151	78	34	1	0	3	1	
PUEBLO	92	71	98	68	82	3	.3	.1	.3	4.0	400	9.2	204	67	30	5	0	1	0	
CT BRIDGEPORT	94	63	96	61	79	2	.2	.3	.2	4.0	111	9.5	127	87	29	7	0	2	0	
HARTFORD	83	69	86	64	76	2	.1	.8	.1	5.9	78	35.6	150	93	62	0	0	1	0	
DC WASHINGTON	88	68	93	62	78	5	.7	.1	.4	5.5	73	34.4	137	86	50	3	0	3	0	
FL APALACHICOLA	93	75	97	74	84	5	.8	.2	.4	10.5	125	30.9	133	84	46	7	0	4	0	
DAYTONA BEACH	87	74	90	73	81	-1	2.5	.9	1.4	12.3	90	39.4	129	96	68	1	0	4	1	
JACKSONVILLE	88	74	90	72	81	0	1.3	0	.8	12.2	90	34.9	130	92	67	1	0	3	1	
KEY WEST	89	73	90	71	81	0	1.2	.4	1.0	14.6	106	39.9	127	94	64	3	0	4	1	
MIAMI	87	79	88	75	83	-2	.4	.5	.2	11.1	111	40.7	210	81	66	0	0	4	0	
ORLANDO	89	78	91	76	83	0	1.5	.1	.7	17.6	102	35.8	112	92	62	3	0	6	1	
TALLAHASSEE	91	75	93	74	83	0	2.3	.7	.9	17.5	103	36.7	117	96	60	6	0	6	2	
TAMPA	91	73	93	72	82	0	.3	-1.5	.2	11.9	68	46.6	114	97	61	5	0	4	0	
WEST PALM BEACH	90	74	92	73	82	-1	2.8	1.0	1.0	19.9	136	39.0	137	88	62	5	0	6	2	
GA ATLANTA	91	79	92	76	85	3	1.0	-.1	.5	18.3	115	46.5	143	83	63	6	0	5	0	
AUGUSTA	88	70	94	69	79	0	1.7	.8	1.1	4.2	46	24.9	79	96	55	3	0	4	1	
MACON	93	70	96	69	82	1	1.8	.9	.7	8.1	84	31.9	114	89	46	5	0	5	3	
SAVANNAH	92	72	94	70	82	0	2.7	1.8	1.1	10.9	116	35.6	119	95	52	6	0	4	3	
HI HILO	89	73	92	71	81	-1	1.0	-.7	.8	12.2	80	38.6	118	95	57	3	0	3	1	
HONOLULU	82	69	85	67	76	0	1.0	-1.4	.3	12.4	70	35.6	47	91	65	0	0	6	0	
KARULUI	88	75	90	71	81	0	.1	0	.1	.5	42	2.0	15	82	52	1	0	1	0	
LIHUE	85	73	87	70	79	0	.6	.4	.3	1.1	122	3.9	34	82	57	0	0	2	0	
ID BOISE	84	75	85	73	79	0	.7	.3	.3	3.1	74	8.5	34	80	59	0	0	5	0	
LEWISTON	97	67	103	64	82	7	T	-.1	T	1.4	108	11.5	153	58	20	7	0	0	0	
POCATELLO	97	65	102	62	81	6	.4	.3	.4	2.8	127	9.0	120	67	22	6	0	2	0	
IL CHICAGO	92	55	100	52	73	2	.2	.1	.2	2.4	126	9.9	139	83	25	5	0	1	0	
MOLINE	89	65	96	62	77	4	T	.8	T	8.9	102	28.3	134	96	43	2	0	0	0	
PEORIA	93	65	101	60	79	4	0	-.9	0	8.3	81	19.9	83	91	43	5	0	0	0	
QUINCY	91	69	95	64	80	5	.3	.5	.3	7.0	77	24.9	111	92	50	4	0	2	0	
ROCKFORD	93	70	99	63	81	5	.7	.2	.7	2.6	28	16.9	72	83	45	6	0	2	1	
SPRINGFIELD	89	67	92	63	78	5	T	.8	T	5.7	56	18.9	79	92	46	4	0	1	0	
IN EVANSVILLE	92	67	96	61	79	3	.3	.5	.3	4.5	54	19.0	88	93	48	4	0	1	0	
FORT WAYNE	96	68	99	63	82	4	T	.8	T	6.1	72	32.3	115	86	34	7	0	0	0	
INDIANAPOLIS	88	69	91	63	78	5	1.3	.5	.9	5.8	71	18.1	80	87	47	1	0	2	1	
SOUTH BEND	92	68	95	61	80	5	.1	-.8	.1	6.5	69	20.6	81	87	44	5	0	1	0	
IA DES MOINES	88	69	91	63	78	6	.2	.7	.1	5.2	61	18.9	84	90	52	2	0	3	0	
SIOUX CITY	94	72	98	64	83	7	T	.8	T	6.3	74	20.8	105	79	42	7	0	0	0	
WATERLOO	91	71	97	64	81	5	.1	.6	.1	6.0	77	18.6	110	86	44	5	0	1	0	
KS CONCORDIA	87	65	91	60	76	4	T	.9	T	9.3	90	23.1	106	96	54	2	0	0	0	
DODGE CITY	99	74	104	70	87	7	.3	.5	.2	4.1	47	15.3	86	77	30	6	0	2	0	
GOODLAND	98	72	100	69	85	5	.1	.5	.1	6.3	90	16.4	116	64	26	7	0	1	0	
TOPEKA	97	70	100	66	84	8	.1	.4	.1	6.5	108	13.9	120	67	24	7	0	1	0	
WICHITA	97	70	101	65	84	5	.1	.8	.1	6.7	66	23.7	113	82	39	6	0	1	0	
KY BOWLING GREEN	99	71	101	69	85	3	T	.6	T	11.2	130	26.1	146	74	30	7	0	0	0	
LEXINGTON	94	67	97	61	80	2	T	.8	T	7.4	74	35.5	107	97	43	7	0	1	0	
LOUISVILLE	92	69	94	63	81	5	.1	.9	.1	5.4	51	24.9	82	80	36	7	0	3	0	
LA ALEXANDRIA	93	69	96	65	81	3	1.1	.3	.7	6.7	74	29.6	102	86	41	7	0	4	1	
BATON ROUGE	88	73	93	70	80	-3	2.6	1.7	2.0	6.9	69	35.3	99	90	59	3	0	2	2	
LAKE CHARLES	85	72	91	70	79	-3	7.2	5.8	5.0	20.1	170	56.2	157	93	66	2	0	5	3	
NEW ORLEANS	90	74	94	73	82	0	2.5	1.2	1.9	8.5	75	33.4	104	94	61	4	0	6	1	
	87	72	91	71	80	-2	3.9	2.5	1.1	16.5	127	55.6	151	91	63	4	0	5	4	

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

+100 = NORMAL & ACTUAL NEAR THE SAME

Weather Data for the Week Ending Aug. 6, 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 MAY 29	PCT. NORMAL SINCE MAY 29	TOTAL, IN., SINCE JAN. 1	PCT. NORMAL SINCE JAN. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE	
ME SHREVEPORT	94	72	96	69	83	0	.7	.1	.6	8.9	111	32.9	115	92	46	7	0	3	1	
ME CARIBOU	77	58	85	48	68	3	2.1	1.2	1.8	10.0	122	27.1	135	92	55	0	0	3	1	
ME PORTLAND	80	62	87	59	71	2	.3	.3	.2	7.3	107	37.1	153	94	57	0	0	3	1	
MD BALTIMORE	92	71	98	69	81	4	.2	.8	.2	7.4	85	32.6	134	90	46	5	0	2	0	
MD SALISBURY	89	71	94	69	80	3	.2	.6	.5	8.3	89	30.3	114	100	60	2	0	2	0	
MA BOSTON	86	70	91	68	78	4	.3	.4	.2	3.0	46	31.5	129	96	58	1	0	3	0	
MA CHATHAM	79	65	82	61	72	3	.9	.8	T	4.6	69	35.4	135	97	76	0	0	3	0	
MI ALPENA	82	59	89	56	70	4	.9	.2	.8	5.5	73	21.0	121	99	57	0	0	4	1	
MI DETROIT	83	65	87	59	74	2	1.1	.4	.9	10.1	136	22.9	118	91	60	0	0	2	1	
MI FLINT	81	64	85	60	73	3	.8	0	.6	6.8	96	18.4	99	98	60	0	0	3	1	
MI GRAND RAPIDS	82	65	85	58	73	2	.4	.3	.4	7.5	95	22.4	111	91	58	0	0	1	0	
MI HOUGHTON LAKE	81	60	87	55	71	4	.1	.5	.1	3.5	51	14.9	93	94	56	0	0	2	0	
MI LANSING	83	63	85	57	73	2	.2	.5	.2	6.6	94	19.3	105	95	60	0	0	1	0	
MI MARQUETTE	81	57	88	54	69	4	.8	.1	.4	7.5	91	24.1	111	97	52	0	0	4	0	
MI MUSKEGON	84	63	87	57	74	3	T	.6	T	4.3	73	15.1	83	95	60	0	0	0	0	
MI SAULT STE. MARIE	81	57	88	54	69	4	2.4	1.7	1.8	7.5	103	19.1	107	96	60	0	0	2	2	
MN ALEXANDRIA	87	66	92	59	77	6	T	.8	T	8.0	100	12.0	78	93	46	3	0	1	0	
MN DULUTH	81	62	86	57	71	6	1.1	.2	.7	6.8	75	14.8	83	90	52	0	0	4	1	
MN INT'L FALLS	82	59	87	54	71	5	.3	.4	.2	8.1	95	11.9	79	98	58	0	0	3	0	
MN MINNEAPOLIS	90	68	96	61	79	6	.1	.7	.1	8.7	100	23.5	142	82	42	3	0	1	0	
MN ROCHESTER	87	60	93	56	74	3	T	.8	T	7.9	87	18.1	102	96	48	2	0	3	0	
MS GREENWOOD	92	74	96	73	83	1	.7	.1	.6	9.5	104	44.3	127	93	55	6	0	3	1	
MS JACKSON	89	72	93	70	81	-1	.6	.3	.6	5.5	65	50.9	150	96	60	4	0	2	1	
MS MERIDIAN	89	70	93	67	79	-2	.9	0	.5	9.9	100	48.3	138	100	66	5	0	5	1	
MO CAPE GIRARDEAU	97	72	100	65	85	-1	.6	.2	.6	3.9	46	27.5	98	90	39	7	0	1	1	
MO COLUMBIA	93	70	98	67	82	3	1.0	.3	.7	6.9	83	24.3	108	90	44	6	0	2	1	
MO KANSAS CITY	97	74	101	70	85	6	.1	.7	.1	5.3	52	20.9	93	80	36	6	0	1	0	
MO SAINT LOUIS	95	74	100	68	85	6	.2	.5	.2	5.9	70	24.6	111	85	41	7	0	1	0	
MO SPRINGFIELD	95	70	97	68	82	3	T	.6	T	8.1	89	26.1	107	87	42	7	0	1	0	
MT BILLINGS	97	67	102	62	82	9	.1	.1	.1	2.5	74	6.5	66	58	20	7	0	2	0	
MT GLASGOW	98	66	108	62	82	11	T	.3	T	3.4	74	5.9	71	60	21	7	0	1	0	
MT GREAT FALLS	96	62	104	53	79	9	T	.3	T	6.6	150	10.2	96	64	20	7	0	0	0	
MT HAVRE	99	62	107	57	81	10	0	.2	0	5.2	133	9.7	118	64	17	7	0	0	0	
MT HELENA	92	58	100	56	75	6	T	.2	T	5.7	163	8.4	114	75	23	4	0	1	0	
MT KALISPELL	90	53	94	48	71	6	T	.3	T	5.3	143	11.9	123	93	33	4	0	0	0	
MT MILES CITY	100	69	104	61	84	9	T	.3	T	3.1	65	5.6	57	66	20	7	0	0	0	
MT MISSOULA	92	57	98	54	75	7	.7	.5	.5	5.2	168	11.3	140	93	30	6	0	0	0	
NE GRAND ISLAND	97	72	102	65	84	7	.1	.5	.1	8.3	111	18.6	116	79	34	6	0	3	0	
NE LINCOLN	98	72	102	65	85	7	.1	.6	.1	8.2	101	19.7	114	84	35	7	0	2	0	
NE NORFOLK	90	69	98	64	79	4	.4	.2	.4	9.8	115	20.3	120	91	46	3	0	3	0	
NE NORTH PLATTE	91	66	95	59	78	3	.7	.2	.7	7.8	104	15.1	106	87	40	5	0	1	1	
NE OMAHA	92	72	100	67	82	6	.1	.8	.1	6.3	70	20.7	108	87	50	4	0	2	0	
NE SCOTTSBLUFF	93	63	96	60	78	4	T	.2	T	2.7	49	11.2	104	82	31	7	0	1	0	
NE VALENTINE	93	65	99	62	79	4	.2	.4	.1	11.8	187	19.5	156	90	40	7	0	2	0	
NV ELY	89	54	95	50	72	4	.1	0	T	2.5	156	8.8	154	82	27	3	0	4	0	
NV LAS VEGAS	103	79	108	74	91	1	.1	.1	.1	.2	25	2.6	100	44	20	6	0	1	0	
NV RENO	99	51	105	45	75	6	T	.1	T	5	50	6.7	146	67	13	7	0	0	0	
NV WINNEMUCCA	97	55	108	47	76	4	0	.1	0	1.2	100	6.0	115	57	13	6	0	0	0	
NH CONCORD	87	61	92	54	74	5	.5	.2	.3	6.5	94	29.4	143	97	45	2	0	4	0	
NJ ATLANTIC CITY	92	70	97	66	81	6	.1	1.0	.1	4.1	51	27.4	107	88	43	5	0	1	0	
NM ALBUQUERQUE	92	67	94	64	80	2	.4	0	.3	1.9	86	4.6	107	73	76	7	0	2	0	
NM CLOVIS	89	66	91	62	78	0	T	.6	T	3.0	47	6.1	57	72	31	4	0	0	0	
NM ROSWELL	93	70	94	67	82	1	T	.4	T	1.3	46	3.3	69	48	28	6	0	0	0	
NY ALBANY	84	65	89	59	75	4	.4	.4	.3	4.3	58	29.0	142	99	65	0	0	4	0	
NY BINGHAMTON	83	65	87	58	74	5	.8	.1	.7	8.0	98	26.7	124	89	52	0	0	2	1	
NY BUFFALO	83	67	86	60	75	4	.9	.1	.6	6.4	98	17.7	85	89	56	0	0	4	1	
NY NEW YORK	87	73	90	72	80	3	.6	.4	.5	7.1	89	36.5	147	89	55	3	0	2	0	
NY ROCHESTER	82	67	85	61	75	4	2.8	2.2	2.3	6.5	107	18.1	98	97	59	0	0	3	1	
NY SYRACUSE	83	63	85	56	73	2	1.4	.6	.7	5.3	62	19.5	84	90	60	0	0	3	2	
NC ASHEVILLE	87	64	91	61	76	2	.3	.8	.2	5.2	51	29.3	99	100	54	2	0	2	0	
NC CHARLOTTE	90	70	95	68	80	1	.3	.5	.3	4.6	54	23.5	88	93	48	4	0	3	0	
NC GREENSBORO	90	68	92	67	79	2	.3	.7	.3	9.1	95	28.6	108	95	49	5	0	1	0	
NC HATTERAS	87	75	89	68	81	2	.4	1.0	.2	7.1	62	38.3	126	87	64	0	0	2	0	
NC NEW BERN	90	73	95	72	82	2	2.3	.8	1.9	10.6	77	36.6	115	90	58	4	0	4	1	
NC RALEIGH	90	69	94	67	80	2	.2	.9	.2	4.4	66	29.4	112	93	48	5	0	2	0	
NC WILMINGTON	90	74	95	72	82	1	.8	.8	.4	12.9	86	37.6	115	90	62	4	0	3	0	
ND BISMARCK	95	60	98	54	77	6	T	.4	T	5.1	89	9.4	85	88	27	5	0	1	0	
ND FARGO	88	64	96	57	76	5	T	.7	T	6.8	93	11.9	92	96	47	4	0	1	0	
ND GRAND FORKS	91	61	97	55	76	7	T	.6	T	7.3	112	11.7	102	91	41	4	0	1	0	
ND WILLISTON	100	64	107	55	82	11	T	.3	T	3.1	63	6.4	70	82	23	7	0	1	0	
OH AKRON-CANTON	84	66	86	61	75	3	1.9	1.0	1.6	6.1	73	22.3	96	91	57	0	0	4	1	
OH CINCINNATI	91	66	94	61	78	3	.1	.6	.1	4.1	44	22.5	84	93	43	4	0	1	0	
OH CLEVELAND	84	68	87	62	76	4	2.3	1.6	1.5	8.9	113	22.3	100	93	57	0	0	2	2	
OH COLUMBUS	87	66	92	60	77	3	.6	.3	.5	8.4	91	22.1	90	86	43	2	0	3	0	

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

Weather Data for the Week Ending Aug. 6, 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 MAY 20	PCT. NORMAL SINCE MAY 20	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	
DAYTON	86	66	91	60	76	2	.3	.4	.2	10.0	122	23.7	103	86	48	1	0	2	0	
TOLEDO	83	65	86	60	74	3	1.2	.5	1.1	7.9	101	19.0	96	93	58	0	0	2	1	
YOUNGSTOWN	85	66	88	59	76	6	.8	.0	.4	7.8	89	21.5	91	88	53	0	0	3	0	
OK OKLAHOMA CITY	96	73	99	71	85	2	.0	.5	T	4.6	58	19.4	95	82	34	7	0	1	0	
TULSA	99	75	101	72	87	3	.3	.3	T	2.8	30	20.3	85	93	41	7	0	1	0	
OR ASTORIA	70	53	74	48	62	1	T	.2	T	9.5	238	47.9	134	100	64	0	0	1	0	
BURNS	90	49	97	43	69	-1	.3	.1	.3	2.1	131	10.9	170	46	40	1	0	1	0	
MEDFORD	91	59	100	53	75	2	0	.1	0	1.3	118	13.0	123	84	31	3	0	0	0	
PENDLETON	91	62	96	59	76	2	0	.1	0	1.6	133	8.2	121	62	21	5	0	0	0	
PORTLAND	80	61	88	56	71	3	0	.2	0	4.7	204	28.7	143	80	40	0	0	0	0	
SALEM	81	55	88	45	68	1	0	.1	0	5.0	278	34.4	157	85	43	0	0	0	0	
PA ALLENTOWN	88	68	92	64	78	4	.5	.4	.5	8.0	93	30.6	120	90	51	4	0	2	0	
ERIE	80	68	82	62	74	5	2.6	1.8	1.5	12.0	148	24.5	112	90	68	0	0	3	2	
HARRISBURG	88	66	92	62	77	1	.4	.3	.2	4.7	59	28.1	122	92	46	2	0	2	0	
PHILADELPHIA	92	71	96	67	81	4	T	.9	T	3.2	36	31.0	127	90	42	6	0	0	0	
PITTSBURGH	83	66	88	62	74	2	2.1	1.2	1.1	10.7	129	26.1	110	93	58	0	0	3	2	
SCRANTON	83	65	86	59	74	2	.7	.1	.2	9.0	113	27.2	133	90	56	0	0	4	0	
RI PROVIDENCE	87	71	91	68	79	6	1.0	.1	.7	7.4	107	40.5	159	82	47	1	0	3	1	
SC CHARLESTON	91	74	93	72	82	1	.2	1.4	.7	11.5	73	38.3	115	94	56	4	0	2	0	
COLUMBIA	92	70	96	68	81	0	2.8	1.5	1.7	6.5	57	29.3	96	94	50	6	0	2	2	
FLORENCE	91	71	94	69	81	0	1.3	.1	.7	12.4	106	36.5	133	98	55	5	0	2	2	
GREENVILLE	88	69	92	68	78	0	1.1	.3	1.1	7.0	69	31.7	98	95	55	3	0	2	1	
SD ABERDEEN	92	66	96	57	79	6	T	.5	T	10.9	170	16.2	129	92	38	5	0	1	0	
HURON	94	66	97	58	80	5	0	.5	0	6.8	108	11.8	93	96	39	5	0	0	0	
RAPID CITY	91	65	93	60	78	4	.1	.3	.1	5.0	81	9.5	78	83	35	6	0	1	0	
SIoux FALLS	91	65	96	55	78	4	T	.6	T	8.6	118	18.5	117	94	48	5	0	0	0	
TN CHATTANOOGA	93	70	98	66	81	2	.2	.6	.2	6.3	70	29.8	89	93	44	5	0	2	0	
KNOXVILLE	90	68	95	65	79	1	.3	.5	.2	6.6	72	24.5	78	96	50	4	0	3	0	
MEMPHIS	94	75	97	74	84	2	.5	.4	.4	7.8	89	34.8	102	96	51	6	0	3	0	
NASHVILLE	95	71	100	69	83	3	T	.8	T	5.9	69	32.3	103	90	38	7	0	0	0	
TX ABILENE	94	71	97	69	82	-2	T	.5	T	7.3	133	12.6	91	76	33	6	0	1	0	
AMARILLO	93	66	96	61	80	1	0	.7	0	2.9	40	10.2	81	72	26	7	0	0	0	
AUSTIN	96	75	98	72	85	0	.2	.2	.2	7.1	120	23.4	119	82	39	7	0	3	0	
BEAUMONT	89	74	93	73	82	-1	3.5	2.3	3.3	18.5	171	44.3	147	99	66	3	0	5	1	
BROWNSVILLE	92	75	94	74	84	-1	1.8	1.4	.8	10.6	221	15.5	132	93	56	7	0	2	2	
CORPUS CHRISTI	91	74	93	72	83	-3	.3	.2	.3	11.6	193	21.5	140	88	55	6	0	2	0	
DEL RIO	96	73	100	69	84	-2	.7	.3	.6	2.2	52	6.2	61	79	30	5	0	2	0	
EL PASO	97	70	99	67	83	1	T	.3	T	.7	26	3.6	88	57	21	7	0	0	0	
FORT WORTH	96	75	99	73	86	-1	T	.3	T	5.0	94	18.5	94	78	36	7	0	0	0	
GALVESTON	90	79	91	75	84	0	.6	.3	.5	10.8	129	24.7	112	82	66	5	0	3	0	
HOUSTON	92	73	95	71	83	0	.5	.2	.3	11.6	135	28.8	106	94	52	7	0	4	0	
LUBBOCK	91	65	93	63	78	-1	T	.5	T	2.2	37	7.8	69	76	34	5	0	1	0	
MIDLAND	96	70	100	67	83	1	T	.3	T	.5	14	2.6	32	66	27	7	0	0	0	
SAN ANGELO	93	67	95	63	80	-5	T	.3	T	5.3	143	10.0	96	82	33	6	0	1	0	
SAN ANTONIO	94	71	98	70	83	-2	1.3	.8	1.0	5.2	88	16.6	99	84	39	6	0	2	1	
VICTORIA	92	73	94	70	83	-2	1.2	.7	.8	14.5	175	26.2	127	97	59	7	0	4	1	
WACO	96	71	102	69	84	-3	.5	.1	.4	6.4	123	16.5	82	86	41	6	0	2	0	
WICHITA FALLS	99	72	103	69	86	0	0	.4	0	5.6	98	15.5	92	80	31	7	0	0	0	
UT BLANDING	87	62	90	60	75	1	.2	.1	.1	3.2	178	9.0	161	80	50	2	0	3	0	
CEDAR CITY	91	60	99	57	75	1	.3	0	.1	1.5	79	8.4	138	76	26	4	0	2	0	
SALT LAKE CITY	93	67	100	63	80	2	.2	0	.2	2.0	105	12.6	133	76	28	5	0	2	0	
VT BURLINGTON	83	64	87	58	73	4	2.8	1.9	1.4	7.7	95	27.4	143	84	53	0	0	5	2	
VA NORFOLK	92	73	97	70	82	3	.3	1.0	.3	5.1	50	27.6	103	90	49	3	0	1	0	
RICHMOND	92	68	98	66	80	2	.2	1.1	.1	6.3	62	25.6	100	99	49	6	0	2	0	
ROANOKE	90	68	95	62	79	3	1.1	.2	.8	5.0	63	27.9	117	94	44	4	0	3	1	
WA COLVILLE	89	55	95	47	72	4	T	.2	T	4.5	180	16.5	163	78	33	3	0	1	0	
QUILLAYUTE	71	50	77	46	61	0	.4	.2	.4	15.8	251	70.1	127	97	55	0	0	2	0	
SEATTLE-TACOMA	76	58	79	56	67	2	T	.2	T	4.3	172	22.9	115	82	45	0	0	0	0	
SPOKANE	90	60	96	55	75	5	.1	.1	.1	4.0	211	12.4	123	67	24	4	0	1	0	
YAKIMA	92	57	99	48	75	4	0	.1	0	1.0	125	7.4	180	67	23	5	0	0	0	
WV BECKLEY	81	64	83	60	72	2	.2	.7	.2	11.2	120	22.1	81	95	56	0	0	1	0	
CHARLESTON	90	67	92	64	78	3	.6	.5	.6	8.1	83	24.8	92	96	47	3	0	2	1	
HUNTINGTON	93	69	95	65	81	6	.2	.8	.2	5.3	57	21.3	80	95	42	7	0	1	0	
PARKERSBURG	88	68	92	63	78	4	.2	.7	.1	6.7	66	25.3	90	95	48	2	0	2	0	
WI GREEN BAY	83	63	90	60	73	3	.9	.2	.7	6.6	89	16.4	98	96	54	1	0	2	1	
LA CROSSE	86	65	90	60	75	2	.2	.6	.2	5.0	56	14.6	76	47	54	1	0	1	0	
MADISON	85	60	89	55	73	2	.3	.6	.3	4.6	52	16.0	83	96	52	0	0	1	0	
MILWAUKEE	84	67	93	65	76	5	T	.7	T	3.3	41	20.4	108	82	50	1	0	1	0	
WAUSAU	84	64	89	55	74	5	.9	0	.9	6.1	67	15.0	77	94	46	0	0	1	1	
WY CASPER	93	60	96	53	76	5	.1	.1	.1	6.4	246	12.9	161	82	24	7	0	2	0	
CHEYENNE	84	57	85	52	71	2	.4	0	.3	5.9	131	15.0	158	93	39	0	0	3	0	
LANDER	90	61	95	57	76	4	T	.1	T	1.6	64	10.4	111	66	25	4	0	1	0	
SHERIDAN	97	62	102	57	80	9	T	.2	T	.6	16	4.7	45	68	22	7	0	2	0	
PR SAN JUAN	90	78	92	76	84	2	1.0	.3	.8	9.4	85	23.9	85	94	65	4	0	3	1	

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

July Weather and Crop Summary

WEATHER SUMMARY

HIGHLIGHTS: The month was generally warmer than normal east of the Rockies and cooler to the west. Averages for the month were 4-6° above 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 over the Corn Belt stressed corn at a very critical time. Much of the Nation had below-normal rainfall. The Pacific Northwest and parts of the central Rockies had well above-normal precipitation. Most of the Corn Belt had less-than-normal rain, especially the southern portion. The Southeast became very dry. Parts of South Carolina had less than 25% of normal precipitation.

The first two days of the month brought showers to the northern Plains, across the northern part of the Corn Belt, and from the upper Ohio Valley through the Southeast where rain was needed. The southern and central Plains were sunny and warm, where the harvest of winter wheat was in progress.

FIRST WEEK...Hot weather covered the East Coast early in the week, but a cold front brought relief from temperatures in the mid-nineties. Moderate to heavy showers fell along the front as it moved southeastward. The heaviest showers fell from northeastern Texas into southern Missouri, and from southeastern Kansas through Kentucky. Showers covered most of the East. But the driest parts of the Southeast had only light scattered showers. The winter wheat harvest advanced rapidly in the central and southern Plains despite scattered showers and thunderstorms on two days. Ideal temperatures and scattered showers allowed corn and soybeans in the Midwest to make rapid progress. However, more hot weather developed over the Plains at the end of the week and began moving into the Corn Belt.

SECOND WEEK...Showers moved across Idaho and Montana and were helpful to the very dry area of northeastern Montana, but more rain is needed in this area. A line of light, occasionally moderate, showers and thunderstorms developed from northeastern New Mexico to west-central Minnesota, but the central and southern Plains, where the winter wheat harvest was progressing rapidly, remained generally sunny. Showers in the East were widely scattered and light. A tropical system in the western Gulf of Mexico triggered heavy downpours in southeastern Texas. Hot weather moved eastward and afternoon high temperatures were in the nineties on most days in the Corn Belt, where corn was beginning its critical flowering stage and many soybean fields were blooming. Hot, sunny weather prevailed over the East Coast states.

THIRD WEEK...High temperatures were over 90° in nearly all of the Nation. Only the Northwest and the northern tier of States were under 90° for part of the week. Much of the Corn Belt had afternoon highs in the high nineties or over 100°. One-third of the Nation's corn was propagating and under severe stress. Average temperatures were 9-10° warmer than normal from Iowa through Indiana. Moderate showers and thunderstorms fell from eastern Colorado through Nebraska and northern Iowa to central Minnesota and in Ohio. Light, widely scattered showers covered the East Coast States. Showers in southern Texas tapered off to light to moderate amounts.

FOURTH WEEK...Moderate to heavy showers and thunderstorms covered most of Nebraska, Iowa, and central Nebraska. The rain was helpful to the recently flowered corn and soybean plants. However, little rain fell in the drier southeastern section of Iowa. Some beneficial showers fell in central and southern Illinois. Temperatures were not quite as warm over the Corn Belt early in the week, but afternoon temperatures climbed back into the high nineties by the end of the week. The rain in Nebraska slowed the wheat harvest but harvest activity began in Montana. Showers in the Southeast again seemed to avoid the driest areas.

CROP DEVELOPMENT

Hot, dry weather persisted during July across most regions of the Nation pushing small grains to maturity. Harvesting moved ahead rapidly during the month, but was still later than average because small grains developed slowly during the unusually cool, wet spring. Dry soil slowed germination of double-cropped soybeans and stressed corn development across much of the eastern half of the Nation. Development of all row crops continued behind the five year average because of the late planting season.

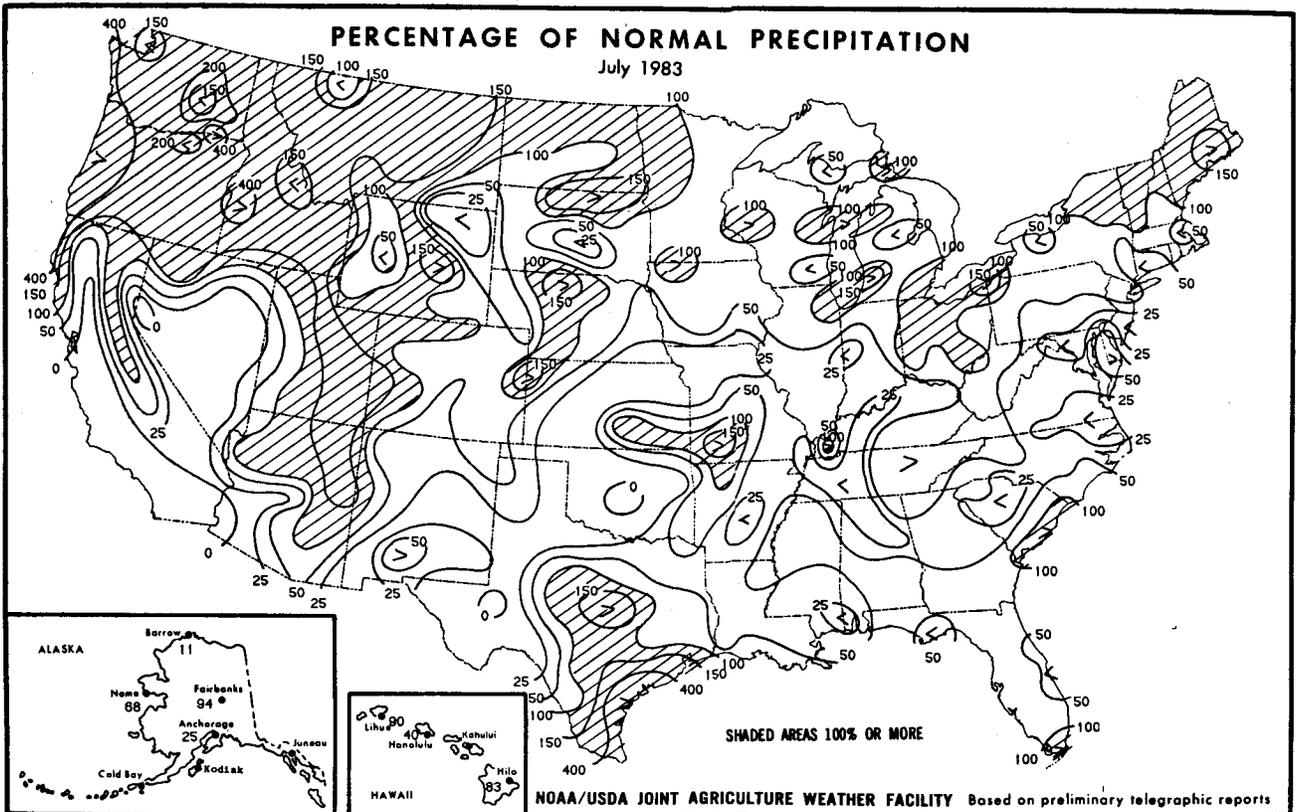
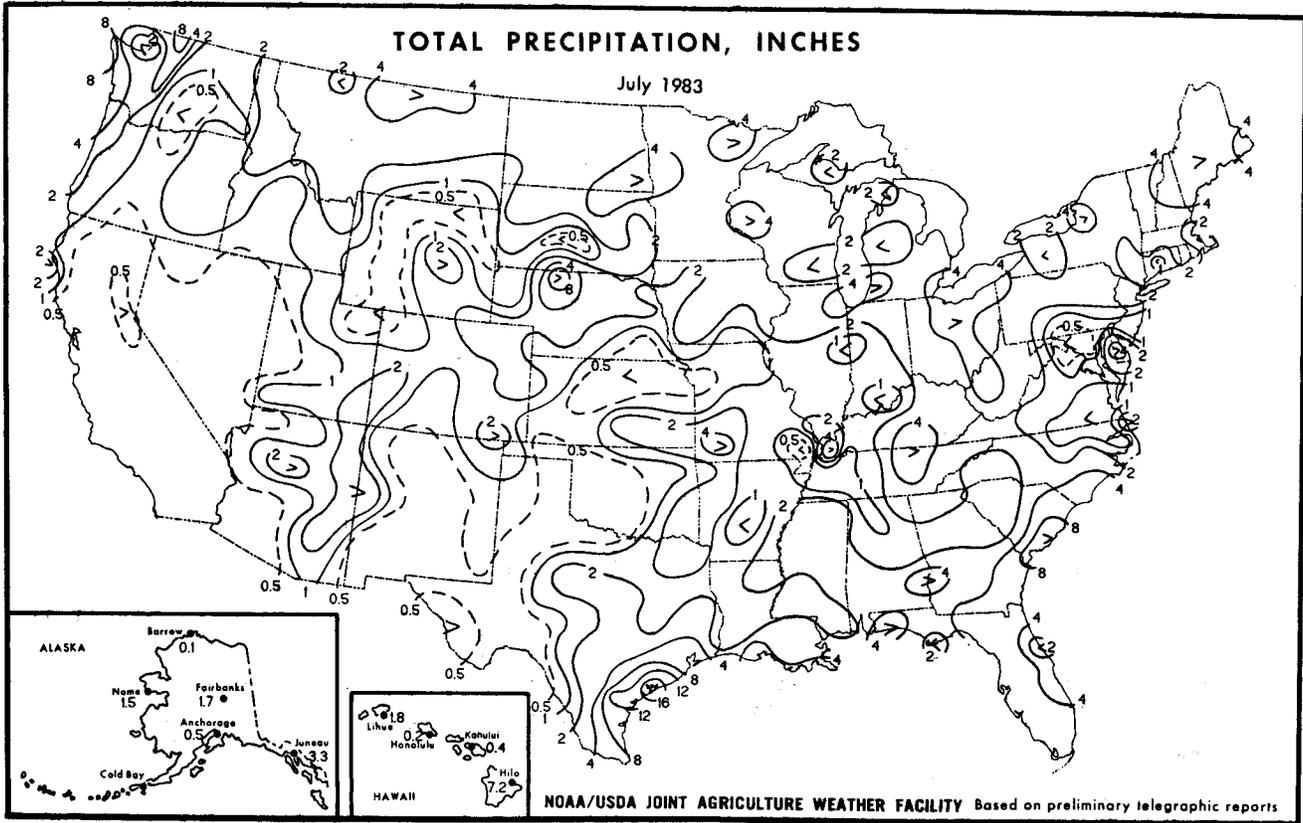
At the beginning of August, corn was in generally fair to good condition. However, poor to fair conditions began appearing in portions of States from Missouri to Virginia because of dry conditions. Only 62 percent of the Nation's corn had reached the silking stage by July 31 and 9 percent had reached the dough stage. Crop development trailed the average in all producing areas. Fields in the South were in the dent stage and many were mature as the month ended. Harvesting reached 4 percent in Georgia and was 8 percent finished in Louisiana.

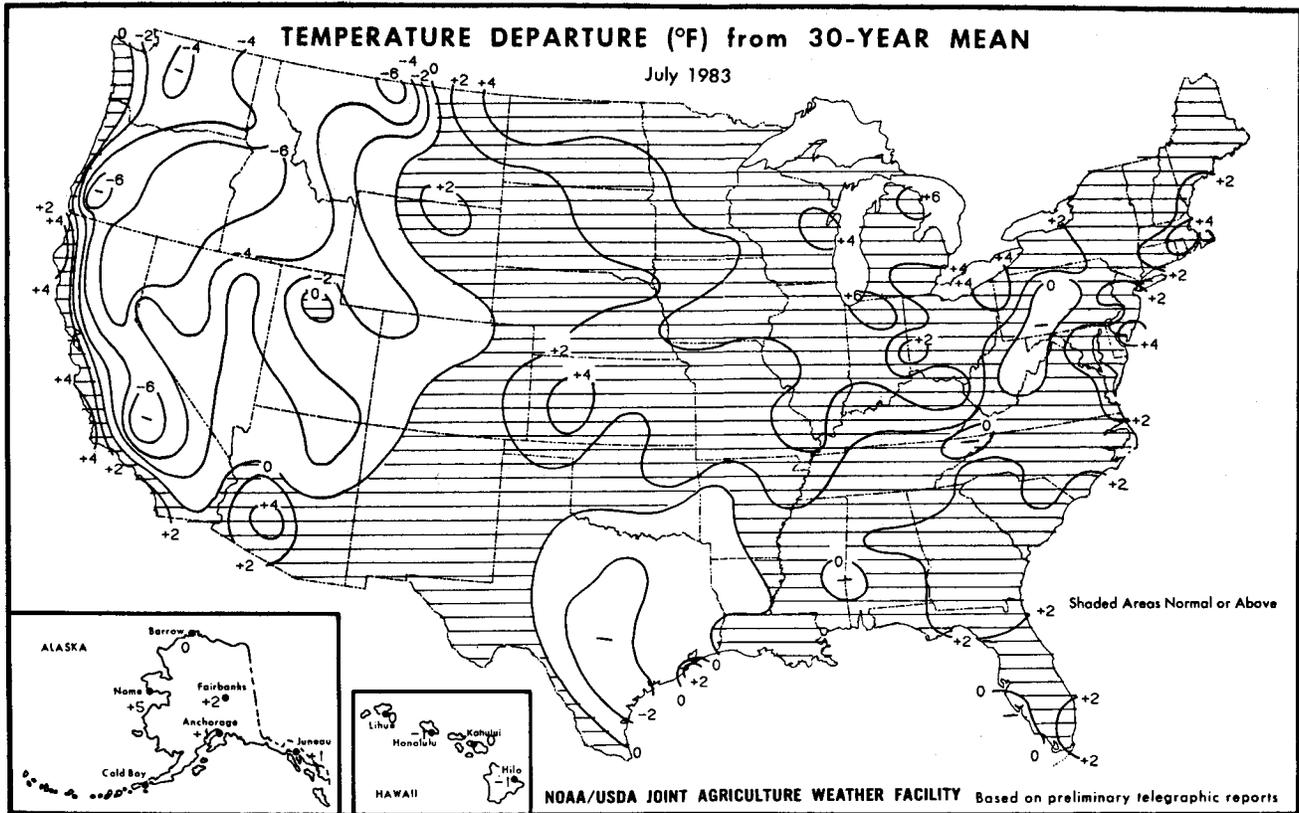
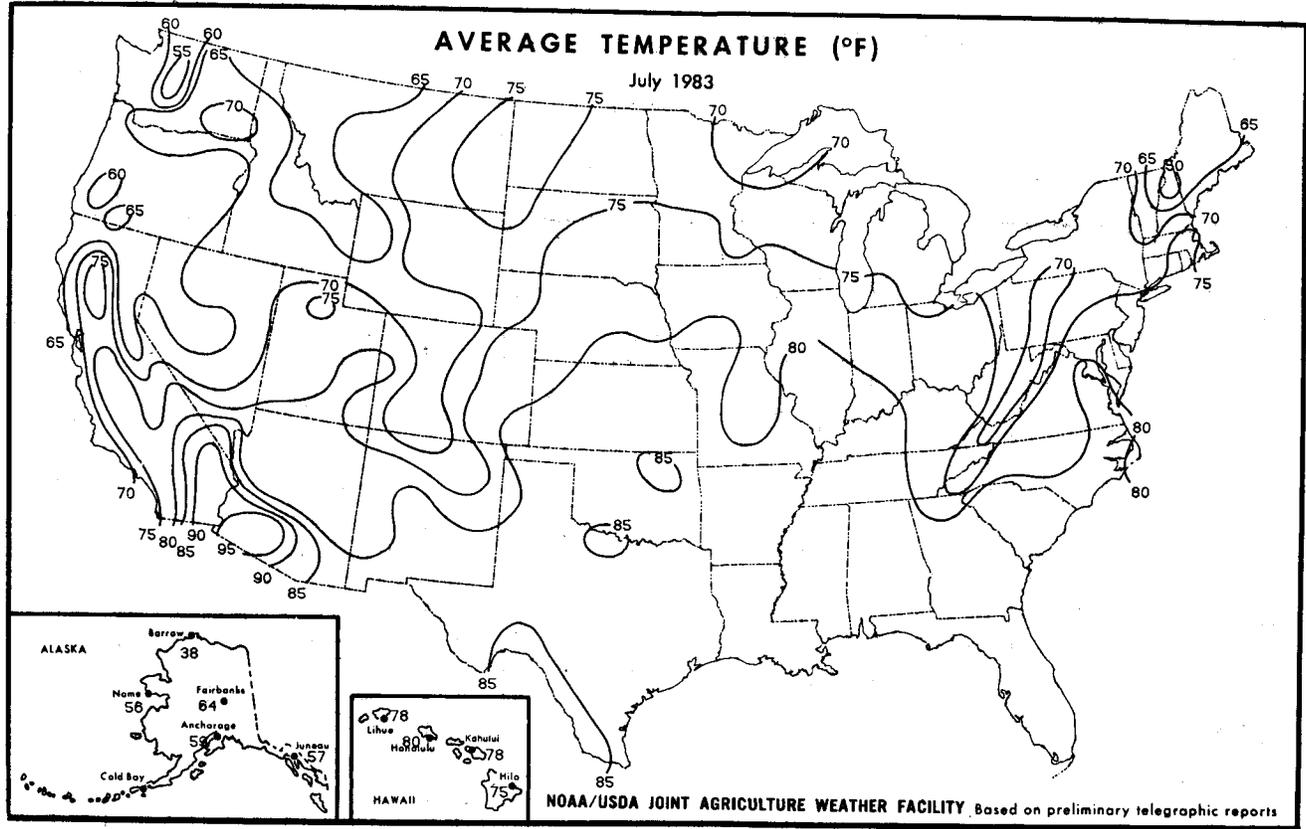
Soybeans were in fair to good condition. Reduced moisture levels in some areas slowed germination of double-cropped soybeans, limited growth of plants and caused some bloom loss. By the end of the month, blooming and podding was underway in all States, with 59 percent of the fields blooming. Pod set was 20 percent complete. Pod set was 20 points behind average in Ohio, 18 points behind in Mississippi, and 15 points behind average in Louisiana. The only States ahead of average were North Carolina and South Carolina.

Cotton was generally in fair to good condition, although the Missouri crop was rated only poor to fair. Boll set was less than average in most areas. By the end of July bolls had set on 46 percent of the acreage, compared with the 63 percent average. In Texas, 36 percent of the acreage set bolls, 17 points less than average. Bolls were beginning to open in the extreme South. Harvesting had not started as the month ended.

Sorghum was in fair to good condition. Dry conditions from Texas into eastern Kansas stressed fields, causing some deterioration at the end of July. Heading reached 39 percent complete by the beginning of August. Thirty-five percent of the Texas crop had been harvested.

Winter wheat combining was 84 percent complete by July 31. Progress ranged from 7% finished in Idaho to complete in Illinois, Indiana, Kansas, Missouri, Oklahoma and Texas. Growers in the Corn Belt began plowing harvested fields as the month ended. Spring wheat harvesting reached 4 percent. Montana had not started spring wheat harvest. In the other 4 major States, harvest ranged from 1 percent complete in both Idaho and North Dakota to 18% finished in South Dakota.





Temperature and Precipitation Data for July 1983

States and Stations	Temperature °F		Precipitation Inches		States and Stations	Temperature °F		Precipitation Inches		States and Stations	Temperature °F		Precipitation Inches	
	Average	Departure	Total	Departure		Average	Departure	Total	Departure		Average	Departure	Total	Departure
AL BIRMINGHAM	82	2	1.5	-3.0	LA BATON ROUGE	87	0	3.4	-3.7	TOLEDO	75	3	3.4	-.1
MOBILE	82	0	1.7	-6.0	LAKE CHARLES	84	2	1.9	-3.7	YOUNGSTOWN	74	4	2.6	-1.4
MONTGOMERY	82	0	2.8	-2.0	NEW ORLEANS	87	0	3.0	-3.7	OK OKLAHOMA CITY	82	0	T	-3.0
AK ANCHORAGE	58	0	.5	-1.5	SHREVEPORT	82	-1	1.2	-2.4	TULSA	85	2	4.6	-2.9
BARROW	38	-1	.1	-.8	MF CARIBOU	65	0	5.9	1.9	OR ASTORIA	61	1	4.4	3.4
FAIRBANKS	64	2	1.7	-.1	PORTLAND	70	2	4.3	1.5	BURNS	61	-8	1.1	-.7
JUNEAU	--	--	--	--	MD BALTIMORE	79	2	1.3	-2.6	MEDFORD	69	-4	.6	-.3
KODIAK	--	--	--	--	MA BOSTON	78	4	1.1	-1.6	PENDLETON	68	-6	.5	-.2
NOME	56	5	1.5	-.7	CHATHAM	70	2	1.5	-1.4	PORTLAND	67	-1	2.7	2.2
AZ FLAGSTAFF	65	-1	2.9	-.4	MI ALPENA	72	6	2.5	-.6	PA SALEM	66	-2	2.6	2.2
PHOENIX	96	4	.4	-.3	DETROIT	74	2	4.5	1.4	ALLENTOWN	74	7	2.0	-2.1
TUCSON	87	1	2.0	-.4	FLINT	74	4	2.2	-.6	ERIE	73	4	5.5	2.2
WINSLOW	77	-2	1.1	-.0	GRAND RAPIDS	75	4	4.8	1.8	HARRISBURG	76	0	1.0	-2.3
YUMA	95	1	0	-.2	HOUGHTON LAKE	72	4	1.4	-1.9	PHILADELPHIA	78	1	.7	-3.2
AR FORT SMITH	81	-1	2.6	-.6	LANSING	74	3	2.5	-.3	PITTSBURGH	73	1	3.3	-.5
LITTLE ROCK	82	0	.6	-3.0	MARQUETTE	70	4	1.5	-1.7	SCRANTON	72	0	2.8	-.6
CA BAKERSFIELD	79	-6	0	-.0	MUSKEGON	74	4	1.6	-.8	RI PROVIDENCE	77	4	2.1	-.9
EUREKA	61	-5	.9	-.8	SAULT STE. MARIE	69	5	3.3	-.3	SC CHARLESTON	83	2	8.9	1.6
FRSNO	79	-2	0	-.0	MN DULUTH	70	5	3.5	-.5	COLUMBIA	83	2	.8	-4.6
LOS ANGELES	70	1	0	-.0	INT'L FALLS	70	4	3.0	-.9	GREENVILLE	80	2	1.1	-3.0
RED BLUFF	77	-5	T	-.1	MINNEAPOLIS	77	4	3.1	-.4	SD ABERDEEN	75	3	6.5	4.1
SAN DIEGO	73	3	T	.0	ROCHESTER	74	3	3.1	-.7	HURON	77	3	2.2	-.1
SAN FRANCISCO	65	3	T	.0	SAINT CLOUD	74	4	2.2	-1.2	RAPID CITY	74	1	1.9	-.9
STOCKTON	76	-2	0	-.1	MS JACKSON	83	1	1.7	-2.7	ST LOUIS	77	3	1.8	-.2
CO DENVER	73	0	1.7	-.2	MEMPHIS	80	-1	2.3	-3.0	TN CHATTANOOGA	80	1	2.5	-2.1
GRAND JUNCTION	78	-1	1.9	1.4	MO COLUMBIA	80	2	2.0	-1.5	KNOXVILLE	78	0	3.2	-1.1
PIERLO	78	1	1.5	-.3	KANSAS CITY	82	3	.3	-4.1	MEMPHIS	84	2	3.8	-.2
CT BRIDGEPORT	74	0	1.7	-1.8	SAINT LOUIS	83	4	1.2	-2.4	NASHVILLE	80	1	1.7	-2.1
HARTFORD	75	2	.9	-2.2	SPRINGFIELD	80	2	6.0	2.4	ABILENE	83	-1	2.6	.5
DC WASHINGTON	81	2	1.8	-2.1	MT BILLINGS	72	0	1.5	-.6	AMARILLO	80	1	.8	-1.9
FL APALACHICOLA	82	0	1.8	-5.3	CLASCON	72	2	2.6	-.9	AUSTIN	83	-2	2.8	-.9
DAYTONA BEACH	82	1	1.9	-3.6	GREAT FALLS	66	-3	3.8	2.7	BEAUMONT	82	-1	6.5	1.1
FORT MYERS	82	-1	4.8	-3.8	HAVRE	64	-6	4.0	2.7	BROWNSVILLE	85	-1	6.1	4.6
JACKSONVILLE	83	2	6.1	-.4	HELENA	66	-2	3.5	2.5	CORPUS CHRISTI	83	-2	8.8	7.3
KEY WEST	83	-2	4.7	1.0	KALISPELL	61	-4	2.1	1.1	DEL RIO	86	0	.3	-1.4
MIAMI	85	3	6.2	.2	MILES CITY	76	1	2.0	.5	EL PASO	83	0	.4	-1.2
ORLANDO	83	1	6.5	-1.3	MISSOULA	62	-5	2.4	1.5	FORT WORTH	84	-2	1.6	-.4
TALLAHASSEE	83	2	2.4	-6.4	NE GRAND ISLAND	80	3	1.7	-1.0	GALVESTON	85	2	7.3	3.5
TAMPA	82	0	6.4	-1.0	LINCOLN	81	3	.4	-2.8	HOUSTON	87	-1	5.2	1.9
WEST PALM BEACH	84	2	4.7	-1.4	NORFOLK	78	2	2.7	-.5	LURBOCK	81	1	.4	-1.9
GA ATLANTA	81	2	1.9	-2.8	NORTH PLATTE	75	1	3.7	.7	MIDLAND	84	2	T	-1.7
AUGUSTA	83	2	1.4	-3.0	OMAHA	80	4	1.2	-2.3	SAN ANGELO	82	-2	1.2	-.0
MACON	84	3	2.1	-2.4	VALENTINE	75	0	9.0	6.6	SAN ANTONIO	83	-2	2.4	.5
SAVANNAH	84	3	5.3	-2.1	NV ELY	66	-2	.1	-.6	VICTORIA	83	-2	10.5	7.9
HI HILO	75	0	7.2	-1.5	LAS VEGAS	89	-1	.1	-.4	WACO	84	-2	3.4	1.6
HONOLULU	80	0	.2	-.3	RENO	67	-3	T	-.3	WICHITA FALLS	85	-1	.2	-1.8
KAHULUI	--	--	--	--	WINNEMUCCA	67	-5	.7	-.5	UT Blanding	72	-2	2.0	1.0
LIHUE	79	1	1.8	-.2	NH CONCORD	70	0	2.1	-.8	SALT LAKE CITY	77	1	1.0	-.3
ID BOISE	69	-6	1.2	.9	NJ ATLANTIC CITY	79	5	.5	-3.5	VT BURLINGTON	71	1	3.9	-.5
LEWISTON	71	-3	1.0	.5	TRIDENT	--	--	--	--	VA LYNCHBURG	77	1	1.5	-2.4
POCATELLO	67	-4	1.1	.6	NM ALBUQUERQUE	80	1	.6	-.7	NORFOLK	80	2	.8	-4.4
IL CAIRO	85	4	.4	-3.6	ROSWELL	--	--	--	--	RICHMOND	79	1	.5	-4.6
CHICAGO	77	4	4.3	.7	NY ALBANY	72	1	1.3	-1.7	ROANOKE	77	1	1.7	-1.8
MOLINE	79	4	2.8	-2.1	BINGHAMTON	72	3	2.2	-1.3	WA COLVILLE	64	-4	1.6	.8
PEORIA	80	5	2.0	-2.0	BUFFALO	74	3	2.0	-1.0	OMAK	69	-1	1.2	.7
ROCKFORD	78	5	3.9	-.6	NEW YORK	78	2	3.4	-.3	QUILLAYUTE	60	1	11.0	8.7
SPRINGFIELD	80	3	1.6	-1.9	ROCHESTER	74	3	1.1	-1.4	SEATTLE-TACOMA	63	-2	2.4	1.7
IN EVANSVILLE	81	2	1.5	-2.5	SYRACUSE	72	1	2.3	-1.5	SPOKANE	66	-4	1.9	1.4
FORT WAYNE	79	6	2.4	-1.0	ASHEVILLE	76	3	1.1	-3.3	WALLA-WALLA	72	-4	1.7	1.3
INDIANAPOLIS	80	5	1.6	-2.7	CHARLOTTE	81	2	.6	-3.3	YAKIMA	67	-3	.3	-.2
SOUTH BEND	79	6	2.4	-1.3	GREENSBORO	78	1	2.8	-1.5	WV BECKLEY	70	0	3.7	-.8
IA BURLINGTON	--	--	--	--	HATTERAS	80	1	1.8	-3.5	CHARLESTON	77	2	4.2	-1.2
DPS MOINES	81	5	2.4	-.8	RALEIGH	79	1	1.1	-3.3	HUNTINGTON	79	4	2.1	-2.4
DUBUQUE	76	4	3.4	-.9	WILMINGTON	83	3	5.5	-1.9	PARKERSBURG	--	--	--	--
ST LOUIS	77	1	1.3	-2.1	ND BISMARCK	72	2	2.0	-.1	WI GREEN BAY	73	3	3.8	.5
KS CONCORDIA	82	3	.2	-3.2	FARGO	74	3	4.2	-.9	LA CROSSE	77	4	3.2	-.6
DODGE CITY	84	4	.6	-2.5	WILLISTON	75	5	2.1	.3	MADISON	75	4	1.9	-1.9
GOODLAND	79	3	3.7	1.3	OH AKRON-CANTON	75	3	3.4	-.6	MILWAUKEE	76	5	1.3	-2.2
TOPEKA	81	2	.6	-3.4	CINCINNATI	79	4	2.0	-2.3	WY CASPER	71	0	2.6	1.5
WICHITA	82	1	3.9	-.3	CLEVELAND	75	3	4.2	-.8	CHEYENNE	68	-1	2.1	-.2
KY LEXINGTON	80	4	2.4	-2.6	COLUMBUS	77	3	2.8	-1.2	LANDER	70	-1	.2	-.5
LOUISVILLE	81	3	1.0	-3.1	DAYTON	76	1	3.6	-.2	SHERIDAN	73	3	.1	-.8
									PR SAN JUAN	84	2	6.5	1.6	

Based on 1951-80 NORMALS

Heating Degree Days (Base 65° F.)

July 1983

ALA. Birmingham	0	MAINE, Caribou	75	OKLA. Okla. City	0
Mobile	0	Portland	8	Tulsa	0
Montgomery	0	MD. Baltimore	0	OREG. Astoria	109
ALASKA, Anchorage	-	MASS. Boston	0	Burns	154
Barrow	-	Chatham	2	Medford	26
Fairbanks	-	MICH. Alpena	24	Pendleton	42
Juneau	-	Detroit	6	Portland	27
Nome	-	Flint	12	Salem	59
ARIZ. Flagstaff	26	Grand Rapids	16	PA. Allentown	2
Phoenix	0	Houghton Lake	25	Erie	10
Tucson	0	Lansing	14	Harrisburg	0
Winslow	0	Marquette	35	Philadelphia	0
Yuma	0	S. Ste. Marie	32	Pittsburgh	10
ARK. Fort Smith	0	MINN. Duluth	30	Scranton	7
Little Rock	0	Internatl Falls	27	R. I. Providence	0
CALIF. Bakersfield	0	Minneapolis	2	S. C. Charleston	0
Eureka	133	Rochester	8	Columbia	0
Fresno	0	St. Cloud	8	Greenville	0
Los Angeles	0	MISS. Jackson	0	S. DAK. Aberdeen	0
Red Bluff	0	Meridian	0	Huron	2
Stockton	0	Vicksburg	-	Rapid City	8
San Diego	0	MO. Columbia	0	Sioux Falls	1
San Francisco	33	Kansas City	0	TENN. Chattanooga	0
COLO. Denver	3	St. Louis	0	Knoxville	0
Grand Junction	0	Springfield	0	Memphis	0
Pueblo	0	MONT. Billings	29	Nashville	0
CONN. Bridgeport	0	Glasgow	16	TEX. Abilene	0
Hartford	0	Great Falls	59	Amarillo	0
D. C. Washington	0	Havre	46	Austin	0
FLA. Apalachicola	0	Helena	76	Beaumont	0
Ft. Myers	0	Kalispell	130	Brownsville	0
Jacksonville	0	Miles City	6	Corpus Christi	0
Key West	0	Missoula	126	Dallas	-
Lakeland	-	NEBR. Grand Island	0	Del Rio	0
Miami	0	Lincoln	0	El Paso	0
Orlando	0	Norfolk	0	Fort Worth	0
W. Palm Beach	0	North Platte	2	Galveston	0
Tallahassee	0	Omaha	0	Houston	0
Tampa	0	Valentine	6	Lubbock	0
GA. Atlanta	0	NEV. Ely	12	Midland	0
Augusta	0	Las Vegas	0	San Angelo	0
Macon	0	Reno	40	San Antonio	0
Savannah	0	Winnemucca	35	Victoria	0
IDAHO, Boise	38	N. H. Concord	14	Waco	0
Lewiston	17	N. J. Atlantic City	0	Wichita Falls	0
Pocatello	61	Trenton	-	UTAH, Milford	7
ILL. Cairo	0	N. MEX. Albuquerque	0	Salt Lake City	6
Chicago	16	Roswell	-	VT. Burlington	19
Moline	1	N. Y. Albany	5	VA. Lynchburg	0
Peoria	2	Binghamton	10	Norfolk	0
Rockford	6	Buffalo	5	Richmond	0
Springfield	0	New York	0	Roanoke	1
IND. Evansville	0	Rochester	9	WASH. Colville	-
Fort Wayne	1	Syracuse	11	Omak	-
Indianapolis	1	N. C. Asheville	0	Quillayute	163
South Bend	6	Charlotte	0	Seattle-Tacoma	72
IOWA, Burlington	-	Greensboro	0	Spokane	55
Des Moines	0	Hatteras	0	Walla Walla	10
Dubuque	5	Raleigh	0	Yakima	32
Sioux City	0	Wilmington	0	W. VA. Beckley	14
KANS. Concordia	0	N. DAK. Bismarck	6	Charleston	4
Dodge City	0	Fargo	16	Huntington	0
Goodland	0	Williston	1	Parkersburg	-
Topeka	0	OHIO. Akron-Canton	10	WIS. Green Bay	17
Wichita	0	Cincinnati	1	Madison	11
KY. Lexington	0	Cleveland	7	Milwaukee	10
Louisville	0	Columbus	6	WYO. Casper	22
LA. Baton Rouge	0	Dayton	8	Cheyenne	23
Lake Charles	0	Toledo	8	Lander	26
New Orleans	0	Youngstown	13	Sheridan	22
Shreveport	0				

National Agricultural Summary

August 1 to 7

HIGHLIGHTS: Widely scattered showers provided some relief to moisture stressed crops across the eastern half of the Nation. However, hot weather caused rapid evaporation of soil moisture in all regions and pushed small grains toward maturity across the North. Soil moisture supplies were short to adequate across the Nation, except in areas of the Southeast and Southwest where some very short supplies were reported. Farmers had 5 to 7 days suitable for fieldwork in all regions. Winter wheat combining advanced to 90% completion, equaling the average. Harvesting was centered in northern producing areas. Spring wheat harvesting was 18% finished, 1 point ahead of normal. Eighty-five percent of the corn acreage was silking and 19 percent was in the dough stage. Southern fields were mostly in the dent stage and many were mature. Soybeans were blooming on 72% of the acreage and were setting pods on 36%. Development of both corn and soybeans continued to trail the average in all areas. Cotton was squaring on 97% of the acreage and 62 percent of the acreage was setting bolls. Sorghum and rice headed on 48% and 38% of the acreage, respectively. Vegetable growers prepared for fall planting. Pastures and ranges deteriorated because of the hot, dry conditions. Livestock was stressed; as a result, weight gains were limited in many areas.

SMALL GRAINS: The winter wheat harvest in the 15 major producing States reached 90%, equaling the average. Combining was finished in all but the northern States. Harvesting was 25% complete in Montana and 13% finished in Idaho. Harvest moved ahead rapidly in the Pacific Northwest. Oregon producers combined 26% of their acreage during the week and Washington growers harvested 32%. In the Corn Belt, farmers plowed wheat stubble in preparation for fall seeding of winter wheat. Indiana producers had plowed 10% of their acreage.

Spring wheat harvesting was active in all major producing States. Progress was 20 points behind average in South Dakota and 4 points behind in Idaho. All other States were ahead of schedule. In the 5 major producing States, 18% of the acreage was combined, ahead of last year's 12% and the average of 17%.

CORN: Corn was in fair to poor condition across portions of the Corn Belt and Southeast. The crop generally rated fair to good elsewhere across the Nation. In the 17 major producing States, corn was silking on 85% of the acreage and was in the dough stage on 19% of the acreage. Last year, 85% was silking and 31% was in the dough stage. In the eastern Corn Belt, 86% was silking and 24% was in the dough stage, 2 and 14 percentage points, respectively, behind the average. In the western Corn Belt development also lagged. Only 86% was silking, and 11% was in the dough stage, 2 and 8 points, respectively, behind schedule. Corn fields across the South generally had dented and were maturing rapidly because of hot weather. The poorest corn continued to be cut for silage. Harvesting was 8% complete in Georgia, trailing the 20% record for both last year and the average.

SOYBEANS: Soybeans continued in fair to good condition. Rains relieved crop stress in many areas, but more moisture is needed for good development. In the 18 major producing States, 72% of the crop was blooming and 36% was setting pods, compared with 74% blooming and 40% setting pods a year ago. Dry weather continued to stress the crop

in many regions. Double-cropped soybean stands were uneven due to poor germination in some areas. Development was near normal across the Corn Belt but lagged the normal in the South.

SORGHUM: Sorghum was in fair to good condition. Minimal precipitation and hot weather continued to stress the crop in most areas. In the 7 major producing States, 48% of the sorghum had headed, slightly ahead of last year but trailing the 60% average. Harvesting was nearly complete in south Texas and gained momentum in north Texas. Forty-seven percent of the State's acreage had been harvested, lagging the 51% average for this date.

COTTON: Cotton was in fair to good condition. In the 14 major producing States, 97% of the acreage was squaring, and 62% was setting bolls. A year ago 94% had squared, and 65% was setting bolls. Stands continued to develop rapidly in Texas. Dryland fields showed stress; additional moisture is needed for proper development. Bolls were opening rapidly from Central Texas southward. Only 1% of the Texas crop has been harvested, the same as a year ago but 2 points behind average.

OTHER CROPS: Peanuts continued in fair to good condition. Pegging was nearing completion in Georgia and beginning in Texas.

Growers continued topping and harvesting tobacco. The Georgia and South Carolina crops were 59% and 33% harvested, respectively. In North Carolina, flue-cured tobacco was 26% harvested while, in Virginia, 11% had been cut. The fire-cured crop in Virginia was 3% harvested. Kentucky's burley crop was rated poor because dry conditions stressed the crop.

In the five major rice producing States, 38% of the crop was headed, compared with the average of 52%. Harvesting was 20% complete in Texas and 3% finished in Louisiana.

VEGETABLES: Gathering of summer vegetables continued in northern areas. Land preparation and seeding of fall vegetables gained momentum in all areas. Peppers and tomatoes were being transplanted in Florida. Heavy volumes of broccoli, cantaloupes, carrots, cauliflower, and honeydew melons were harvested in California. Processing tomato harvest peaked in the central San Joaquin Valley and increased in the Sacramento Valley. Summer potato harvesting advance northward to Long Island, New York and was active in California.

FRUITS AND NUTS: Peach picking gained momentum in the Northeast. Sweet cherry picking was nearly complete in Michigan and New York. Tart cherry harvesting was nearly complete in New York and 95% finished in Michigan. Florida's citrus groves were in excellent condition and very little irrigation was used. The crop made good progress. California producers harvested apples, avocados, table grapes, nectarines, cling peaches, pears, prunes, summer grapefruit, and Valencia oranges. Growers prepared for the almond harvest.

PASTURES AND LIVESTOCK: Dry weather continued to cause deterioration of pastures and ranges across most of the Nation. Portions of the Corn Belt and Southeast were rated poor to fair, while elsewhere conditions were generally fair to good. Livestock producers began supplemental feeding of hay and silage. Heat caused livestock stress and limited weight gains.

CROP PROGRESS

FOR WEEK ENDING AUG 7, 1983

SOYBEANS % BLOOMING			
	1983	1982	AVG.
ALA	59	68	66
ARK	27	45	40
GA	58	76	72
ILL	90	89	85
IND	90	95	85
IOWA	94	77	92
KANS	55	35	55
KY	42	68	54
LA	59	73	71
MICH	85	95	84
MINN	95	92	94
MISS	60	80	77
MO	69	57	60
NEBR	90	65	80
N C	39	41	50
OHIO	85	95	85
S C	36	55	56
TENN	52	72	72
18 STATES	72	74	75

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

SOYBEANS % SETTING PODS			
	1983	1982	AVG.
ALA	26	50	48
ARK	14	20	20
GA	25	40	36
ILL	60	61	55
IND	35	50	40
IOWA	60	44	64
KANS	20	10	35
KY	12	28	27
LA	26	45	46
MICH	30	45	35
MINN	47	35	50
MISS	15	38	36
MO	31	30	30
NEBR	55	20	55
N C	18	10	22
OHIO	40	75	55
S C	8	18	18
TENN	11	22	26
18 STATES	36	40	43

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

CORN % SILKING			
	1983	1982	AVG.
COLO	50	61	59
GA	100	100	100
ILL	95	100	97
IND	85	98	85
IOWA	92	81	94
KANS	80	80	85
KY	68	94	86
MICH	75	90	85
MINN	82	80	83
MO	82	87	74
NEBR	90	70	90
N C	97	98	97
OHIO	85	99	85
PA	51	82	54
S DAK	64	55	75
VA	83	88	88
WIS	72	68	72
17 STATES	85	85	87

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

CORN % DOUGH			
	1983	1982	AVG.
COLO	1	7	8
GA	97	98	98
ILL	40	69	56
IND	15	50	40
IOWA	10	10	20
KANS	15	30	45
KY	8	39	36
MICH	5	20	15
MINN	3	3	4
MO	40	54	47
NEBR	15	10	25
N C	81	83	84
OHIO	20	55	30
PA	6	22	9
S DAK	7	2	7
VA	52	65	58
WIS	15	16	11
17 STATES	19	31	30

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

RICE % HEADED			
	1983	1982	AVG.
ARK	19	38	35
CALIF	5	12	26
LA	62	73	79
MISS	32	54	48
TEX	100	100	100
5 STATES	38	51	52

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

RICE % HARVESTED			
	1983	1982	AVG.
ARK	0	0	0
CALIF	0	0	0
LA	3	20	24
MISS	0	0	0
TEX	20	62	61
5 STATES	4	13	14

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

SORGHUM % HEADED			
	1983	1982	AVG.
COLO	11	25	20
KANS	15	10	35
MO	59	62	55
NEBR	50	20	60
OKLA	30	35	50
S DAK	31	20	42
TEX	73	82	82
7 STATES	48	47	60

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

COTTON % SQUARING			
	1983	1982	AVG.
ALA	100	100	100
ARIZ	100	99	99
ARK	100	100	100
CALIF	98	100	100
GA	100	100	100
LA	98	99	99
MISS	100	100	100
MO	90	100	100
N MEX	100	100	100
N C	92	99	99
OKLA	95	60	90
S C	100	100	100
TENN	100	100	100
TEX	95	91	96
14 STATES	97	94	97

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

COTTON % SETTING BOLLS			
	1983	1982	AVG.
ALA	80	91	89
ARIZ	99	97	98
ARK	96	99	96
CALIF	65	80	78
GA	96	96	98
LA	68	96	95
MISS	61	96	90
MO	76	100	81
N MEX	66	80	80
N C	73	83	84
OKLA	25	5	45
S C	99	99	95
TENN	60	100	83
TEX	55	47	71
14 STATES	62	65	78

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

SPRING WHEAT % HARVESTED			
	1983	1982	AVG.
IDAHO	4	6	8
MINN	20	11	16
MONT	5	0	0
N D	15	8	9
S DAK	43	42	63
5 STATES	18	12	17

THESE 5 STATES PRODUCED 96% OF THE 1982 SPRING WHEAT CROP.

WINTER WHEAT % HARVESTED			
	1983	1982	AVG.
CALIF	99	98	100
COLO	88	87	93
IDAHO	13	12	16
ILL	100	100	100
IND	100	100	100
KANS	100	100	100
MO	100	100	100
MONT	25	5	15
NEBR	100	100	100
OHIO	100	100	100
OKLA	100	100	100
OREG	46	65	64
S DAK	89	85	93
TEX	100	100	100
WASH	54	53	46
15 STATES	90	89	90

THESE 15 STATES PRODUCED 80% OF THE 1982 WINTER WHEAT 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: Heavy rainfall south, scattered showers rest of State - 0.04 to over 8.00 in. Temperatures above normal north to below normal south.

Fieldwork: 5.2 days. Corn dented 76%, 1982 90%, average 81%; corn mature 34%, 1982 62%, average 60%. Soybeans blooming 59%, 1982 68%, average 66%; soybeans setting pods 26%, 1982 50%, average 48%. Cotton setting bolls 80%, 1982 91%, average 89%. Activities: Cultivation of row crops; harvesting of corn, hay, vegetables, and fruits; pest control in field crops; and routine care of livestock and poultry. Conditions: Corn, soybeans, cotton, and pasture mostly fair; livestock fair to good; peanuts good.

ALASKA: Sunny, warm weather replaced by clouds and rain by week's end. Temperatures cooler than normal north, near normal south. Precipitation up to 1.00 in. fell, near normal south; wetter than normal north. Seasonal rainfall totals 1.00 to 3.00 in. dryer than normal, except near normal north.

Intermittent rainfall, sunshine throughout Railbelt allowed up to 7.0 days fieldwork. Second crop brome 6 to 16 in. height Matanuska and Tanana Valleys and in generally good condition. Kenai hay making over half completed. Some small grains turning color, mostly good condition. Some fields being harvested for silage Matanuska Valley, ahead last year. Light rain or wind damage some areas. Topsoil moisture generally adequate; mostly short in Matanuska Valley. Subsoil moisture short to mostly adequate.

ARIZONA: Hot humid weather continued over the State with scattered showers and thunderstorms. Amounts were mostly between 0.10 and 0.75 in. except locally 1.00 to 2.00 in. Average temperatures varied from 4° below normal to 7° above normal. Maximums were 105 to 115° in southwest Deserts, upper 80's and 90's in central basins, upper 70's and 80's in mountains.

Cotton continues to make good progress, in average condition. Rains fell some producing areas but no extensive damage. All cotton acreage in squaring stage compared with 99% for both last year and average. Approximately 99% cotton setting bolls, 97% a year ago, 98% average. Open bolls were evident Yuma County. Insect control took place as needed. Alfalfa hay cutting took place. Sorghum stands improving with many fields heading. Corn average condition, tasseling. Insect control taking place, also land preparation for fall crops in Yuma County. Dry onion and watermelon harvests continued in Cochise County as weather permitted. Dry onion volume increased considerably compared to a week earlier when rains slowed harvest to a standstill. Watermelon harvest was just beginning in Cochise County, but is almost complete in the Maricopa-Pinal County area. Cantaloup picking continued in Aguila although harvest was winding down. The 1983-84 lemon harvest got underway in Yuma County under generally good conditions. Citrus groves throughout the State remain in good condition. Commercial grape harvest virtually complete, although some u-pick operations were still active. Peach and apple harvests in Cochise County gaining momentum.

ARKANSAS: Temperatures continued to be slightly above normal, mostly high 90's to low 100's. Highest 104°, lowest 64°. Scattered showers across State. Most rainfall 2.01 in., least 0.

Fieldwork 6.9 days. Soil moisture short. Non-irrigated crops under stress. Cotton fair; virtually all fields setting bolls, same as 1982 and average. Rice good condition; headed 19%, 38% 1982, 35% average. Soybeans fair condition; blooming 27%, 45% 1982, 40% average; setting pods 14%, 20% both 1982 and average. Corn good to fair. Sorghum fair condition. Pastures drying up. Cattle making slow gains and milk output down.

CALIFORNIA: Again, a dry week. Temperatures were up from 2 to 4° over normals for most of the State. The large area of high pressure which was responsible for the heat wave across the country was also responsible for our higher temperatures as it moved in from the southeast toward the latter part of the week. The South Coast showed the greatest warming with Oxnard and Santa Maria up 5° over normal. The north and central coast areas, however, also showed considerable warming with Eureka and Salinas up 5° each.

Development of field crops improving with warmer temperatures. Rice 5% headed, 12% last year, 26% average. Cotton development progressing with 98% squared 100% last year, 100% average. More fields setting bolls, 65%, 80% last year, 78% average. Normal cultural practices ongoing. Winter wheat 99% harvested, 98% last year, 100% average. Some wheat left harvest higher elevations. Dry beans maturing well and setting pods. Field corn and grain sorghum progressing well. Safflower drying for harvest. Baling alfalfa continues. Harvest sugarbeets beginning San Joaquin Valley. Apple harvest increasing volume good quality in early varieties. Avocado harvest continues good quality noted. Coachella Valley date crop progressing normally. Table grape harvest gaining momentum in the southern San Joaquin Valley. Perlette harvest generally complete maturity a problem for Thomson seedless. Nectarine harvest 65% complete. Cling peach harvest continues quality problems due to brown rot, shot hole fungus and undersized fruit. Peach harvest 70% complete. Slight decline in market movement for stonefruits. Pear harvest began in Mendocino District last week expected to begin in Lake District this week. Problems with hail damage, russetting and small sizes have resulted in larger cull percentage. Early pomegranate varieties showing color. Prune harvest underway southern San Joaquin Valley rapidly turning color in northern Sacramento Valley areas. Summer grapefruit and Valencia harvest continues. Almonds and walnuts sprayed for Navel orange worm. Grower preparing ground for almond harvest. Broccoli volume heavy Salinas-Watsonville, fairly light Santa Maria. Cantaloup harvest fairly heavy San Joaquin Valley. Carrot harvest active Central Coast. Cauliflower heavy supply Salinas, light Santa Maria. Honeydew harvest increased Sacramento Valley. Lettuce harvest moderate Central Coast. Summer potato harvest starting Stockton, active Riverside. Market tomato harvest active South Coast, northern San Joaquin Valley. Progressing tomato harvest peaking central San Joaquin Valley, increasing

Sacramento Valley, good condition. Some supplemental feed cattle on dry range grasses. Grazing at higher elevations very good. Abundant water supplies.

COLORADO: Warm and humid with locally heavy rains in all areas. Temperatures slightly above normal along front range and in the south central; 2 to 5° above normal for rest of State.

Winter wheat in very good condition; 95% ripe, slightly less than normal; 88% harvested, 87% last year, 93% average. Corn in good to very good condition; 50% silked, 61% last year, 59% average; 1% dough, 8% last year and average; height 72 in., about normal. Sorghum in good condition, 11% headed, 25% last year, 20% average. Barley, oats, and spring wheat in good to excellent condition. Barley 72% turning color, 69% last year; 45% ripe, 53% last year; 35% harvested, 36% last year, 40% average. Spring wheat 5% harvested, 15% last year, 25% average. Statewide, 6.0 days suitable for fieldwork. Topsoil moisture scarce in some areas, subsoil mostly adequate. Range and pasture condition good to very good Statewide.

FLORIDA: No significant weather system affected the State. Only a couple of minor tropical easterly waves enhanced the normal summer rainfall patterns as warm and humid tropical air generated routine showers and thunderstorm activity. Rainfall amounts were mostly 1.00 to 3.00 in. with a few localized heavier amounts. Temperatures averaged near seasonal norms.

Soil moisture increased from widespread showers, thunderstorms. Heavy rains in several central, eastern Panhandle, west central Peninsula areas brought surplus moisture. In other areas, moisture supplies now generally adequate. Early corn harvesting, haymaking slowed by rains. Soybeans growing well; insect populations increasing, spraying underway some early planted fields. Tobacco harvest nearly finished many areas. Peanuts, cotton generally good condition. Pastures good to excellent, due to adequate rainfall. Some pastures being renovated or established. Cattle generally in good condition. Citrus grove condition near excellent. Moisture adequate with several thunderstorms and rains. Very little irrigation. Abundance of new growth. New crop fruit making good progress. Land preparation for fall vegetables continues very active. Laying of plastic underway. Some celery seedbeds have been started. Planting, transplanting peppers, tomatoes expected to gain. Summer vegetables continue moving in limited volume to local markets.

GEORGIA: Bermuda high dominated with scattered showers and thundershowers occurring at most locations. Rainfall amounts greater than 3.00 in. were common over south half, 1.50 to 2.00 in. in northeast mountains and less than 0.50 in. in northwest. Temperatures averaged 1 to 2° below normal in north half and 2 to 3° below normal in south half. Weak high pressure continued through 6th and 7th. Scattered thundershowers produced quite variable rainfall amounts, 2.15 in. at Albany on 7th to none some locations. Temperatures averaged 3° above normal in west central and about normal elsewhere.

Soil moisture 9% very short, 35% short, 47% adequate, 9% surplus. Average days suitable for fieldwork 4.3. Scattered showers relieved short soil moisture situation numerous areas. Main activities haying, spraying for insects

and disease, and harvesting. Corn condition 7% very poor, 22% poor, 49% fair, 21% good, 97% dough stage, 98% last year and average; 82% dent, 91% last year, 92% average; 55% mature, 76% last year, 78% average; 8% harvested, 20% last year and average. Cotton 3% very poor, 10% poor, 55% fair, 32% good; 96% setting bolls this year and last, 98% average; 3% bolls open this year and last, 6% average. Peanuts 5% poor, 46% fair, 43% good, 3% excellent; 99% pegging this year and last, 100% average. Spraying peanut fungicides and insecticides. Soybeans 8% poor, 52% fair, 36% good; 58% blooming, 76% last year, 72% average; 25% setting pods, 40% last year, 36% average. Tobacco condition 3% very poor, 3% poor, 59% fair, 33% good; 59% harvested, 83% last year, 72% average. Watermelons 15% poor, 60% fair, 23% good; 86% harvested, 93% last year, 91% average. Peaches 96% picked, 98% last year, 95% average. Apple condition 19% very poor, 22% poor, 42% fair, 17% good; 28% picked this year and average, 39% last year. Hay crops condition 3% very poor, 20% poor, 46% fair, 29% good. Pastures 18% poor, 43% fair, 37% good.

HAWAII: Island weather was generally favorable for crop growth. Tropical storm Gil did not affect most of the crops. Most areas received adequate rainfall which provided crops with much needed moisture. Heavy spray programs continued to control insect infestation. Supplies of vegetables remained light to moderate with production ahead of year ago levels. Banana supplies light. Papayas continue to decline.

IDAHO: A southerly flow of very warm, moist air persisted over the State resulting in above normal temperatures and showery weather. Precipitation scattered throughout the State. Most stations reported below normal precipitation. Departures ranged from 0.17 in. below normal at Ashton to 0.40 in. above normal at Malad. Temperatures were above normal for nearly the whole State for the week. Pocatello and Malad were the only two stations that recorded below normal temperatures by 1° and 2°, respectively. The remainder of the State ranged mainly from 1 to 6° above normal with Moscow having the greatest departure with 7° above average.

Farmers reported 6.7 days suitable for fieldwork. Winter wheat was 13% harvested compared to 12% last year and 16% average. Spring wheat had changed color on 75% of the acreage as 4% of the crop was harvested versus 6% a year ago and 8% average. Barley had turned color on 76% of the acreage as 6% of the crop was harvested. Potatoes had closed middles on 95% of the acres versus 97% a year ago. The second cutting of alfalfa was finished on 29% of the acreage versus 35% for 1982. The dry pea harvest was 9% complete. Ranges and pastures were in generally good shape with range fires in some areas of south.

ILLINOIS: Temperatures 4 to 13° above normal. Precipitation none to 0.77 in.

Soil moisture 95% short, 5% adequate. Days suitable fieldwork: 6.5. Corn silking 95%, 1982 100%, average 97%; dough 40%, 1982 69%, average 56%; dented 8%, 1982 22%, average 15%; condition 15% good, 52% fair, 30% poor, 3% failure. Soybeans 90% blooming, 1982 89%, average 85%; 60% setting pods, 1982 61%, average 55%; condition 25% good, 63% fair, 12% poor. Winter wheat 100% harvested, 1982 100%.

average 100%. Oats 92% harvested, 1982 89%, average 89%. Alfalfa hay 3rd crop 29% cut, 1982 15%, average 22%; condition 9% good, 50% fair, 40% poor, 1% failure. Pasture condition 3% good, 28% fair, 59% poor, 10% failure. Livestock condition fair.

INDIANA: Another hot week. Temperatures 3 to 7° above normal. Extremes mostly in mid to upper 90's. Precipitation totals 0.20 to 0.60 in. Much of south none.

Crop stress occurred nearly daily. Evaporative losses were high. Growing degree days up to 40 greater than normal. Fieldwork averaged 5.8 days. Topsoil and subsoil moisture short. Corn condition poor to fair, soybeans fair. Corn 85% silked, 1982 98%, average 85%. Corn 15% in dough, 1982 50%, average 40%. Soybeans 90% blooming, 1982 95%, average 85%. Oats 92% combined, 1982 92%, average 92%. Rye 100% combined, 1982 100%. Alfalfa 97% cut twice, 1982 90%, average 80%. Wheat land 10% plowed, 1982 8%, average 10%. Pastures mostly poor to fair.

IOWA: The second hottest week of the season for most of the State with rainfall far below normal in all districts. Maximum temperatures on the 3rd at Keokuk and Keosauqua of 105° highest recorded in August since 1964. Scattered thunderstorms on the evening of the 3rd dropped about 1.00 in. of rain in the Donnellson and Mt. Pleasant areas.

Days suitable: 6.8. Corn tasseled 98%; 92% last year; 98% normal; corn silked 92%; 81% last year; 94% normal; corn in milk stage 40%; 35% last year; 56% normal; corn in dough stage 10%; 10% last year; 20% normal. Soybeans bloomed 94%; 77% last year; 92% normal; soybeans setting pods 60%; 44% last year; 64% normal. Second crop alfalfa hay harvested 92%; 88% last year; 94% normal. Second crop clover hay harvested 70%; 66% last year; 71% normal. Oats harvested 90%; 92% last year; 94% normal. Topsoil moisture 85% short; 15% adequate. Subsoil moisture 39% short; 60% adequate; 1% surplus.

KANSAS: Temperatures averaged 6 to 8° above normal northern half, 4 to 6° above normal southern half. Precipitation sparse Statewide, mainly widely scattered thunderstorms; generally less than 0.20 in.

Corn 80% silked, 80% last year, 85% average; 15% dough, 30% last year, 45% average; beginning dent east central, southeast. Sorghum 15% headed, 10% last year, 35% average; starting to color southeast. Soybeans 55% bloomed, 35% last year, 55% average; 20% podded, 10% last year, 35% average. Alfalfa hay 3rd cut 40% complete, 45% last year, 55% average; 4th cut underway south central, northeast. Surface moisture short Statewide. Subsoil moisture short east, north central, south central, short to adequate elsewhere. Pastures and ranges generally poor to fair. All week suitable for fieldwork.

KENTUCKY: Hot, humid weather with scattered thunderstorms continued. Temperatures averaged 4 to 5° above normal with highs in 90's. Humidities were uncomfortably high. Thunderstorms developed afternoons first of week and again at end of week. Amounts averaged from near 0.25 in. in west to 0.75 in. in east.

Heat stress and drought caused further crop deterioration. Soil moisture 76% critically short, 23% short and 1% adequate. All days favorable for fieldwork, but heat limited activity. Approximately 60% reporters rated

corn, tobacco and pasture condition poor. Burley 8% topped with another 30% blooming. Corn 68% silking or beyond compared to 94% last year and average 88%. Soybeans 42% blooming or beyond with 12% podding. Last year 68% blooming or beyond and average 54%. Blooms dropping as a result of heat and drought stress. Pastures poor to fair. Hay feeding beginning where pastures short and dry. Shallow ponds running short on water.

LOUISIANA: Rainfall ranged 0.23 to 8.56 in. Temperatures averaged 3° below to normal. High 98°, low 60°.

Soil moisture short north, surplus south. Days suitable: 3.7. Corn dough 96%, 99% 1982. Corn mature 52%, 74% 1982, 75% average. Corn harvested 10%, 40% 1982, 25% average. Condition fair to good. Cotton squaring 98%, 99% 1982 and average. Cotton setting bolls 68%, 96% 1982, 95% average. Condition fair. Sorghum headed 87%, 95% 1982, 90% average. Sorghum turning color 53%, 71% 1982, 56% average. Sorghum ripe 5%, 38% 1982, 19% average. Condition fair to good. Rice headed 62%, 73% 1982, 79% average.

Rice ripe 9%, 30% 1982, 37% average. Rice harvest 3%, 20% 1982, 24% average. Condition good. Soybeans blooming 59%, 73% 1982, 71% average. Soybeans setting pods 26%, 45% 1982, 46% average. Condition fair to good. Sweetpotato harvest 3%, 12% 1982; condition good. Sugarcane condition good; Pecans fair to good. Scab reported some groves. Peaches harvested 95%, 97% 1982. Vegetables fair; pepper and eggplant harvest in full swing. Pastures fair to good; livestock good.

MARYLAND AND DELAWARE: Hot humid week with little precipitation. Days suitable for fieldwork: 7.0. Soil moisture short. Temperatures were 3 to 5 above normal.

Maryland: Corn silked 80%; last year 90%. Dough stage 40%, 40% last year, Dent 10%, last year 10%. Soybeans 40% bloomed, 45% 1982. Pods set 15%, 1982 15%. Tobacco blooming 30% and topped 20%. Oats virtually harvested. Lima beans and sweet corn 50% harvested. Sweet corn 54% harvested last year. Snap beans 95% harvested this year and 1982. Potatoes 80% harvested, 60% last year. Watermelons 40% and cantaloups 50% harvested. Tomatoes 50% picked, last year 45%. Cucumbers 70% harvested, 55% 1982. Peaches 25% harvested. Other hays second cutting 95% this year and 1982. Third cutting of alfalfa 20%, 1982 40%. Other hays 3rd cutting 15%, 30% last year. Corn in fair to poor condition. Tobacco in poor condition. Soybeans in fair condition. Highest reported precipitation was 1.15 in. in Chestertown.

Delaware: Soybeans blooming 36%, 1982 50%. Podding 2%, last year 25%. Corn silked 85%, 95% last year. Dough stage 30%, last year 75%. Sweet corn 54% picked, last year 95%. Potatoes 48% harvested, 1982 95%. Lima beans 34% and snap beans 55% harvested. Tomatoes 28% picked, 65% last year. Watermelon 31% and cantaloupes 40% harvested. Cucumbers 65% harvested, last year 95%. Peaches 40% harvested. Second cutting of alfalfa and other hays completed. Last year alfalfa was 100% cut and other hays 80% cut. Third cutting of alfalfa 25% completed, 1982 40%. Other hays 2% cut. Corn in poor to fair condition. Soybeans in fair to good condition.

MICHIGAN: Warm summer conditions prevailed across State. Average temperatures ranged from 2 to 7° above normal. Precipitation amounts continued below normal.

Scattered rains brought relief to certain parts of the State, but soil moisture remains short in most areas. Fieldwork was active during the week with 5.5 days suitable. Winter wheat harvest winding down with 90% combined, 80% last year, 89% average. Corn 5% in dough, 20% last year, 15% average. Oats 15% harvested, 20% last year, 35% average. Soybeans 30% setting pods, 45% last year, 35% average. Dry beans 30% setting pods, 40% last year, 50% average. Second cut hay 65% complete, 60% last year, 62% average. Sweet cherry harvest complete, on schedule with normal. Tart cherry harvest remains active in northern areas. Statewide, harvest 95% complete, 90% last year, 92% average. Vegetable crops developing slightly behind normal. Harvest of sweet corn, snap beans, tomatoes and cucumbers continue over the State.

MINNESOTA: Temperatures averaged 4 to 9° above normal. High: 104°. Low: 50°. Precipitation averaged near normal northeast to almost 1 inch below normal elsewhere. Greatest weekly total 4.09 in.

Temperatures remained in the 90's for the 5th week in a row with very little rainfall in the major agricultural areas of the State. All of the southern and areas of west central and central are short to very short of topsoil moisture. This is the major corn and soybean producing region of the State. Topsoil moisture rated 18% very short, 40% short, 39% adequate and 3% surplus. Days suitable for fieldwork 6.0. Tasseling: Field corn 93%, 1982 93%, normal 95%. In milk: Field corn 29%, 1982 25%, normal 33%. Blooming: Soybeans 95%, 1982 92%, normal 94%. Setting pods: Soybeans 47%, 1982 35%, normal 50%. Turning ripe: Spring wheat 94%, 1982 83%, normal 85%; oats 97%, 1982 95%, normal 94%; barley 99%, 1982 92%, normal 94%. Combined: Spring wheat 20%, 1982 11%, normal 16%; oats 47%, 1982 37%, normal 38%; barley 48%, 1983 38%, normal 43%.

MISSISSIPPI: Scattered showers primarily over south most of week. Extremes 65 and 100°.

Soil moisture short to adequate. Fieldwork 5.5 days suitable, 4.7 last year, 5.4 average. Soybeans 60% blooming, 80% last year, 77% average; 15% setting pods, 38% last year, 36% average; condition fair. Cotton 100% squaring; 61% setting bolls, 96% last year, 90% average; condition fair. Rice 32% headed, 54% last year, 48% average; condition fair. Sorghum 64% headed, 80% last year, 78% average. Corn 97% silked, 81% dough stage, 52% dented; condition fair to good. Hay harvest 72%, 76% last year, 68% average. Peaches 82% harvested. Watermelons 46% harvested. Pastures in fair to good condition.

MISSOURI: Hot, humid weather continued as temperatures averaged 5° above normal. Rainfall was spotty during the week with most stations receiving 0.25 to 0.50 in.

Days suitable for fieldwork: 6.3. Corn 96% tasseled, 94% last year. Corn 82% silking, 87% last year and 74% normal. Corn 40% in dough stage, 54% last year and 47% normal. Grain sorghum 59% headed, 62% last year and 55% normal. Soybeans 69% blooming, 57% last year and 60% normal. Soybeans 31% setting pods, 30% last year and 30% normal. Alfalfa hay, 3rd cutting, 39% harvested, 42% last year and 32% normal. Cotton 93% squared; 100% last year and 100% normal. Cotton 76% setting bolls, 100% last year and 81% normal. Cotton condition 67% fair and 33% poor. Corn condition 2% good, 33% fair and 65% poor. Soybean condition 8% good, 51% fair and 41% poor. Grain sorghum

condition 5% good, 41% fair and 54% poor. Pasture condition 1% good, 20% fair and 79% poor. Topsoil moisture supply 99% short and 1% adequate.

MONTANA: Very hot week. Temperatures averaged 6 to 16° above normal, making it hottest week of summer. Scattered to widely scattered showers with mostly light amounts.

Soil moisture short. Fieldwork: 6.6 days suitable. Percent crop progress this year, last year, average: Winter wheat harvested 25, 5, 15; ripe 35, 35, 40; turning 40, 55, 45; spring wheat harvested 5, 0, 0; ripe 20, 5, 10; turning 55, 35, 45; headed and still green 20, 60, 45; barley harvested, 5, 0, 0; ripe 20, 10, 15; turning 55, 50, 50; headed and still green 20, 40, 35; oats harvested 10, 0, 0; ripe 20, 10, 15; turning 50, 40, 45; headed and still green 20, 45, 35. Second cutting alfalfa 30, 25, 20; wild hay 70, 70, 70. Stock water and range supplies short to adequate. Grass-hopper activity moderate.

NEBRASKA: Hot with only scattered showers. Average temperature 4 to 7° above normal. Rainfall light, except some localized heavy amounts of 1.00 to 3.00 in.

Dryland corn mostly fair to good. Irrigated corn good. Silking 90%, 70% last year and 90% average. Dough 15%, 10% a year ago and 25% average. Sorghum fair. Heading 50%, 20% previous year and 60% average. Soybeans fair to good. Blooming 90%, 65% last year and 80% average. Setting pods 55%, same as average but 20% last year. Third cutting alfalfa 15%, 10% both last year and average. Wheat 98% harvested, 100% last year and average. Pasture and range feed supplies mostly adequate to short. Fat cattle and hogs stressed by hot, humid conditions. Topsoil moisture mostly short to adequate. Subsoil adequate to short. Days suitable for fieldwork: 6.6.

NEVADA: Temperatures throughout State averaged well above normal. Along with the warm temperatures came afternoon thunderstorms. Precipitation from the thundershowers generally light, but some stations north reported rather heavy amounts. Temperature extremes: 112 and 40°.

Small grain maturity accelerated by hot, dry weather. Little or no rain most areas ideal for combining small grains, harvesting hay and garlic. Potatoes putting on tonnage with warmer night temperatures.

NEW ENGLAND: Hot, dry week with temperatures 5° above normal. Temperatures ranged from 68 to 80°. Rainfall averaged from a trace to 3.50 in., with mountainous and northern areas receiving the greater amounts.

Soil moisture supplies short, and 5.8 days suitable for fieldwork. Harvested summer vegetables and early apples and peaches. Small sizing due to shortage of moisture. Tobacco, sweet corn, apples, peaches and pears in good condition. Cranberry condition excellent.

NEW JERSEY: Temperatures averaged 5° above normal. Extremes were 54° on the 3rd and 98° on the 2nd. Weekly rainfall averaged 0.31 in. north, 0.48 in. central and 0.04 in. south. The heaviest 24-hour total 1.25 in. on the 1st to 2nd. Estimated soil moisture, in percent of field capacity, averaged 61% north, 42% central and 9% south. Four inch soil temperatures averaged 77° north, 84° central and 84° south.

Fieldwork: 6.7 days suitable. Main farm activities: Cutting and baling hay, harvesting summer vegetable crops and fruit and irrigating.

Planting of fall vegetable crops continues. Topsoil moisture supply remains short. Corn and soybeans wilting from hot, dry weather. All crops would benefit from rain.

NEW MEXICO: Showers, thundershowers Statewide - more numerous early in week. Southeast Plains received limited amounts. Temperatures a few degrees about normal. High 99°, southern Desert. Low 44° highlands.

Cotton rated good, 100% squared current, 100% last year and average. Fields setting bolls 66%, 80% last year and average. Alfalfa good to excellent, 2nd cutting nearly complete. Third cutting winding down south, limited activity on 4th. Irrigated grain sorghum good to excellent, less than 10% headed. Dryland crop fair. Corn good to excellent, 80% tasseled. Land preparation for wheat, barley seeding. Mesilla Valley chile good, harvest starts in 2 weeks. Peanuts good with excellent growth. Potato harvest continues. Apples fair. Ranges fair, dry most areas. Livestock rated good, supplemental feeding continues.

NEW YORK: Temperatures several degrees above normal. Much needed rain fell in many areas, but more is needed.

Much corn still under stress. Wheat harvest 92% done, 78% 1982, 67% average. Oat harvest 10% complete, 21% 1982, 16% average. Second cutting alfalfa 62% done, 50% 1982, 52% average. Sweet, tart cherry harvests nearly done Statewide. Peach harvest progressing. Recent conditions have favored the spread of several diseases and insect pests in both fruit and vegetable crops. Still dry on Long Island, crops under stress. Early L.I. potato harvest underway. Sweet corn, snap bean harvests progressing. Harvest of early onions, tomatoes, cabbage started.

NORTH CAROLINA: Temperature near normal in mountains, 2 to 3° above in Piedmont and coastal regions. Precipitation varied due to scattered storms.

Soil moisture: 49% very short, 44% short, 7% adequate. Days suitable for fieldwork: 6.2. Condition: Tobacco 15% poor, 60% fair, 25% good. Corn: 47% poor, 45% fair, 8% good. Cotton: 13% poor, 47% fair, 37% good, 3% excellent. Peanuts: 13% poor, 57% fair, 30% good. Soybeans: 20% poor, 62% fair, 17% good, 1% excellent. Irish potatoes: 7% poor, 72% fair, 14% good, 7% excellent. Apples: 14% poor, 55% fair, 31% good. Peaches: 30% poor, 45% fair, 25% good. Phenological stages: Cotton squared: 92%, 1982 99%, 99% average. Cotton setting bolls: 73%, 1982 83%, 84% average. Corn silked: 97%, 1982 98%, 97% average. Corn soft-dough: 81%, 1982 83%, 84% average. Corn dent: 53%, 62% 1982, 63% average. Corn mature: 20%, 1982 19%, 27% average. Soybeans blooming: 39%, 41% 1982, 50% average. Setting pods: 18%, 1982 10%, 22% average. Harvests: Flue-tobacco: 26%, 47% 1982, 41% average. Major farm activities: Tobacco harvest, topping and suckering tobacco, irrigating crops, cultivating and spraying for weed control on soybeans, hay, peanuts and truck crop harvesting.

NORTH DAKOTA: Hot and dry weather continued. The 100° mark was reached in most areas during the week. Temperatures averaged 5 to 10° above normal. Extremes from 107° northwest to 46° west central. Precipitation was light and spotty. The largest total was 1.39 in. northeast. Most areas received less than 0.20 in.

Hot weather pushed small grain harvest progress to well ahead of average but put other crops under increasing stress. Development of row crops well ahead of average. Small

grains mostly fair to good condition, others still mostly good. Soil moisture levels extremely low. Only 6% adequate topsoil. Late small grains and row crops in need of moisture over entire State. Small grains, percent combined with last year and average: Durum wheat 6, 3, 4; other spring 15, 8, 9; barley 39, 25, 26; oats 29, 14, 17; winter wheat 68, 42, 49; and rye 74, 56, 54. Row crops, percent in bloom or beyond with last year and average: Sunflower 55, 30, 44; flax 96, 86, 87; potatoes 95, 77, 89. Corn 41 percent milk or beyond last year 17, average 25. Soybeans 64% fully podded, last year 24, average 43.

OHIO: Temperatures averaged 2 to 5° above normal. Highs averaged mid to upper 80's, lows in low to mid 60's. Growing degree days accumulated at 20 to 30 above normal. Precipitation below normal. Most totals under 0.50 in., frequent under 0.25 in.

Moisture shortages in some areas. Corn and soybeans fair to good. Corn conditions and development continue to vary widely. Third cutting hay started. Winter wheat harvested 100%, 100% 1982, 100% average. Soybeans blooming 85%, 95% 1982, 85% average; soybeans setting pods 40%, 75% 1982, 55% average. Corn silking 85%, 99% 1982, 85%; corn dough 20%, 55% 1982, 30% average. Oats harvested 75%, 85% 1982, 80% average. Alfalfa hay 2nd cut 90%, 95% 1982, 80% average. Days favorable 6.0. Pasture condition fair. Soil moisture 62% short, 37% adequate, 1% surplus.

OKLAHOMA: Temperatures averaged near normal south central and southeast to 4° above normal northeast and central. All districts received some scattered rainfall. Divisional average rainfall ranged from 0.08 in. west central to 0.32 in. southwest.

Weekend showers have eased some moisture stress counties in northeast, central, and southwest districts. Oklahoma City received measurable rain for first time since late June. Good general rain still needed throughout State for adequate crop development. Wheat stubble over 90% plowed. Row crops in generally good to fair condition. Pastures and ranges now in only fair condition. With pasture forage deteriorating, some cattlemen feeding hay. Sorghum heading: 30%; 35% 1982; 50% average. Cotton squaring: 95%; 60% 1982, 90% average. Cotton setting bolls: 25%, 5% 1982, 45% average.

OREGON: Temperatures were generally 4° warmer than normal Statewide. Less than 0.10 in. of precipitation were received in most areas. The north central region received heavy isolated thunderstorms early in week, up to 1.50 in. of precipitation.

Winter wheat 46% harvested, 65% last year; 64% average. Harvest underway in all areas except in higher elevations where the crop is 3 to 4 weeks behind normal. Early reports indicate average yields in some fields in the Willamette Valley due to septoria and shrivelled kernels. Grass seed harvest continuing; ryegrass crops were extensively damaged in the Willamette Valley. Peppermint harvest expected to start next week. Haying activities continue throughout the State. The third crop of alfalfa hay being harvested in Morrow and Umatilla Counties. Bartlett pear harvest expected to start around August 8 in the Hood River Valley. Harvesting of early variety apples underway. Harvest of midseason peach varieties in full swing; brown rot occurring in some orchards. Evergreen blackberry harvest just beginning. Harvest of marion and boysenberries nearly complete. Blueberry harvest continues. Harvesting of norgold potatoes underway in Malheur County. Harvest of early potatoes for fresh

market progressed rapidly in Hermson-Boardman area. Harvest of snap beans, broccoli, and garlic in full swing; good yields have been reported. Sweet corn maturing later than normal, harvest expected to start in a week. Watermelon harvest in full swing. Livestock, range, and pasture condition good to excellent. Lower ranges getting dry. Lightning cause numerous range fires on fire burned 100,000 acres in Lake County.

PENNSYLVANIA: The week continued to be warmer than normal. Average of 74° was 3° above normal.

Days suitable: 5.0. Moisture, short to adequate. Activities: Spraying alfalfa, plowing, making hay and haylage, baling straw. Harvesting: Wheat, oats, potatoes, sweet corn and snap beans. Barley harvest virtually complete, one week behind last year. Wheat harvest 94% complete, last year virtually complete. Oats 51% harvested, 63% a year ago. Potatoes 5% harvest, last year 13% harvested. Corn 51% silked with 6% in dough, last year, 82% silked with 22% in dough; average 54% silked with 9% in dough stage. Second crop alfalfa 82% complete, last year 72% completed. Third crop alfalfa 17% complete, last year 13% complete. Second cutting clo-tim 31% complete, 39% completed a year ago. Fall plowing less than 5% complete, last year 6% complete. Quality of hay made good to fair. Feed from pastures below average to average.

PUERTO RICO: Island average rainfall 1.26 in. or 0.29 in. below normal. Highest weekly total 6.17 in. Highest 24-hour total 2.90 in. Temperature averaged about 83 to 81° on coasts and 78 to 75° Interior Divisions. Mean station temperature ranged from 83.9 to 68.8°. Extremes 95 and 63°.

SOUTH CAROLINA: Needed rains occurred Statewide; but amounts varied with only localized heavy rainfall. Temperatures averaged above normal after climbing.

Soil moisture remains short. Available days for fieldwork: 5.5. Some corn helped by showers, some beyond helping or being cut for silage; conditions fair; 3% harvested, 9% last year, 7% average. Cotton 99% setting bolls same as 1982, 95% average; 5% open bolls last year, 0 average, 1983. Soybeans fair to good, alerted to scout for insects threatening, late planted stands suffered from July heat; 36% blooming, behind 55% year ago, 56% average; 8% setting pods, 18% last year and average. Tobacco hornworms being sprayed. Crop generally rated fair to good as marketing got underway later this season; 33% harvested, 73% last year, 64% average. Peaches 80% harvested, 97% last year, 87% average. Apples' condition fair, 3% harvested, 0 last year, 4% average. Grapes fair to good, harvesting at 8%, 5% year ago, 7% average. Pastures continues poor to fair rating caused by July heat and dry stresses.

SOUTH DAKOTA: Average temperatures 3 to 11° above normal. Extremes: 106 and 42°.

Winter grain harvest winding down; spring grain harvest in full swing. Row crops in need of moisture as development progresses into later stages. Grasshopper and corn borer infestations were reported throughout the State and could present problems in the coming weeks. Precipitation isolated but heavy. Greatest rainfall 5.00 in. Black Hills. Remainder of the State very dry. Days suitable for fieldwork: 6.0. Winter wheat harvested 89%, 1982 85%, average 93%. Spring wheat harvested 43%, 1982 42%, average 63%. Sorghum

headed 31%, 1982 20%, average 42%. Corn silked 64%, 1982 55%, average 75%. Corn dough 7%, 1982 2%, average 7%.

TENNESSEE: Weather generally hot and humid. Precipitation averaged less than 0.50 in. West and middle and 0.75 in. east. Rain was very spotty. Temperatures averaged 4° above normal west, near normal east.

Days suitable for fieldwork: 5.9. Soil moisture 64% critically short, 31% short, 5% adequate. Corn silked 88%, 1982 100%, average 95%; dough 46%, 1982 83%, average 74%; dented 14%, 1982 34%, average 30%. Cotton squaring 100%, 1982 100%, average 100%; setting bolls 60%, 1982 100%. average 83%. Soybeans blooming 52%, 1982 72%, average 72%; setting pods 11%, 1982 22%, average 26%. Tobacco 63% poor, 36% fair, 1% good. Tobacco topped: 15%. Pastures 66% poor, 33% fair, 1% good. Livestock stressed by dry weather.

TEXAS: Early week weather featured high pressure over most of State. Tropical influence maintained moist flow into State through rest of week. Appreciable cloudover throughout week. Some rainfall reported.

Crops: Field crops continued to show effects of hot, dry weather. Some rainfall fell, had little effect on drought-like conditions. Dryland corn, cotton, sorghum under moisture stress. Cotton continues to develop rapidly. Dryland fields showing stress, need additional moisture or face poor development. Irrigated fields remain in good condition, bolls opening rapidly Central Texas, southward. Insects continue to build. Sorghum harvest continued. Harvest in South Texas, nearly complete, gaining momentum North Texas, dryland fields continue to suffer. By week's end condition rated at 73% of normal compared with 83% a year ago. About 11% excellent; 33% good; 50% fair, 6% poor. Corn continues to mature rapidly. Harvest active South Texas, good yields being reported. Central, North Texas, ears developing well, dryland fields in need of moisture. Plains, fields tasseling, showing rapid development. Peanuts continue to progress, some fields pegging. Rice farmers continue to prepare for active harvest. Some fields matured, being cut. Soybeans are making good growth.

Cotton squaring 95%, 91% 1982, 96% average; cotton setting bolls 55%, 47% 1982, 71% average; cotton open bolls 4%, 10% 1982, 11% average; cotton harvested 1%, 1% 1982, 3% average. Rice headed 100%, 100% 1982, 100% average; rice turning color 85%, 95% 1982, 92% average; rice harvested 20%, 62% 1982, 61% average. Sorghum headed 73%, 82% 1982, 82% average; sorghum turning color 66%, 65% 1982, 65% average; sorghum mature 54%, 55% 1982, 57% average; sorghum harvested for grain 67%, 49% 1982, 51% average. Corn harvested for grain 12%, 26% 1982, 19% average.

Commercial vegetables: Rio Grande Valley, harvest of melons, cantaloupes continued to wind down. Shipments remained light. Pre-plant preparation continues. Grove conditions remain good. East Texas harvest of watermelons remained active. Tomatoes, okra, peppers, greens also plentiful. Sweetpotatoes making good growth. Trans-Pecos region, cantaloup harvest continued, melons showing good size, quality. Harvest of carrots, some cabbage also active. North Texas, availability of tomatoes, okra, peppers, watermelons good. Plains, harvest of onions, potatoes continued. Quality, quantity of both potatoes, onions good. Peach harvest virtually complete South Texas, winding down Central Texas. Northern portions, activity remains in full swing. Pecans are making good growth, sizing well.

Range and livestock: Range, pasture condition continued to deteriorate. Growth of grasses curtailed grazing short in most areas. Portions of West Texas remain hardest hit, pastures in extremely poor state. Livestock condition remains generally good. Hay cutting continues although quantity, quality dropping off.

UTAH: Scattered thunderstorm activity throughout State. Accumulations generally moderate northern portions, heavy southeast and south central. Temperatures above normal northern portion, below normal southern, ranging 4° below to 7° above.

Major farm activities included second crop hay cutting, small grain harvest, and irrigation. Winter wheat 44% harvested, barley 31%, spring wheat 7%. Grain yields mostly good. Second crop hay 59% cut. Yields improved over first crop. Corn crop making fast growth in unseasonably warm weather. Average height 60 in., tasseled 31%. Grasshoppers and alfalfa weevil causing some minor damage.

VIRGINIA: Temperatures were 3° above normal. Dry conditions continue to worsen. Scattered distribution of light amounts of rain provided no relief. Statewide average 0.40 in.

Hot, humid weather with scattered light rains brought no relief from drought. Topsoil moisture rated 94% short, 6% adequate with 6.0 days suitable for fieldwork. Corn condition rated poor. Some chopped to supplement pastures. Few and poorly developed ears unless irrigated. Percent silked 83, 88% last year and average. Percent in dough 52, 65% last year, 58% average. Percent in dent 27, same last year. Soybean condition poor to fair. Some spraying and cultivating for weeds. Percent blooming 38, 46% in 1982; setting pods, 12%, 19% in 1982. Tobacco condition fair to good due to irrigation. Topping and sucker control active. Fire-cured harvest 11% complete, 22% in 1982, 16% average. Fire-cured harvest 3% complete, 19% last year, 8% average. Peanut condition still good. Need rain this week for normal yield.

WASHINGTON: This week was first good summer weather pattern this year. Fair circulation—mostly from the east—produced hot temperatures to west. First week with averages significantly above weekly normals. No measurable precipitation occurred except on north coast where over 0.33 in. observed at Quillayute as weak front brushed coast on 2nd.

Grain harvest continued early areas. Winter wheat and barley have above average yields. Norgold potato harvest in full swing. Haying picked up in warm weather. Second cutting alfalfa hay nearly completed. Mint harvest begins soon. Blueberry harvest continues good quality and yields. Blackberry harvest in full swing. Strawberry and raspberry growers doing field clean up, cutting back, fertilizing. Eastside, harvest of Bartlett pears, peaches, plums continues. Apricot harvest nearly finished. Sweet corn looks good and harvest begun some areas. Harvest of leafy vegetables, broccoli, zucchini, cauliflower, carrots, green beans and potatoes continues. Vegetable seed harvest

well underway. Planting of seed carrots and onions begun. Beginning harvest of cucumbers and string beans. Early melon harvest underway. Green pea harvest nearly completed. Ranges and pastures in excellent condition. Livestock in good shape. Green chopping continues. Winter wheat harvested: 54%, 53% 1982, 46% average.

WEST VIRGINIA: Temperatures averaged above normal across the State, low 48° high 98°. Precipitation averaged below normal, range 0.02 to 2.70 in.

Soil moisture short to very short. Days suitable for fieldwork 5.2. Main activities: Hay harvesting, maintenance, gardening, pasture clipping. Small grains in fair to good condition. Wheat: 9% ripe, 91% harvested; 6% and 94% in 1982. Barley: 11% ripe and 89% harvested; 8% and 92% in 1982. Oats: 30% headed, 16% ripe and 54% harvested; 10%, 27% and 63% in 1982. Corn in fair to good condition. Tobacco reported in fair condition. Pasture and hay in fair to good condition. First cutting 98% complete, 89% of normal; 96% and 85% in 1982. Second cutting 49% complete, 67% of normal; 33% and 82% in 1982. Fruit in fair condition. Peaches: 42% harvested, 82% of normal; 45% and 53% in 1982. Gardens in fair condition. Lack of rainfall continues to stress corn, second hay and livestock water supplies.

WISCONSIN: Temperatures averaged above normal. Lowest for the week was at Lake Thompson on 2nd at 47°. The highest at 98° at Marshfield on 7th. Thunderstorms in the north on 2nd brought 1.00 to 3.50 in. of rain and some hail. About 1.00 in. fell in the central part of the State on 3rd and 4th.

Crop progress for corn was good with 72% of the crop silked which was the same as the average and ahead of last years 68%. Dough stage 15%, compared to last year's 16% and 11% average. Crops looks fairly good. Harvesting of oats active with 24% gathered, ahead of 18% last year; average 29%. Yields ranging from 60 to 90 bushel an acre. Winter wheat 54% harvested compared to 44% last year. Yield ranging from 50 to 60 bushels with reports of short straw. Days suitable for fieldwork: 5.0. Soil moisture 48% short, 48% adequate and 4% surplus.

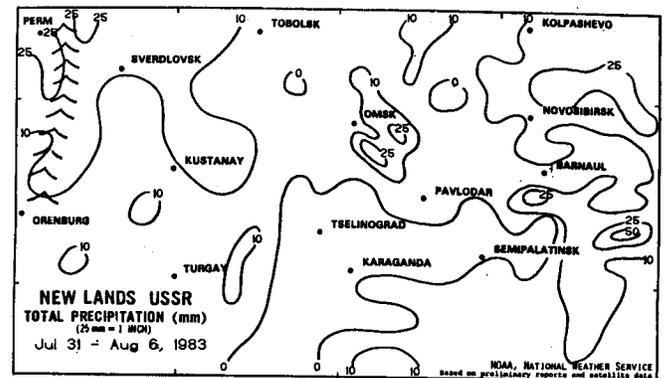
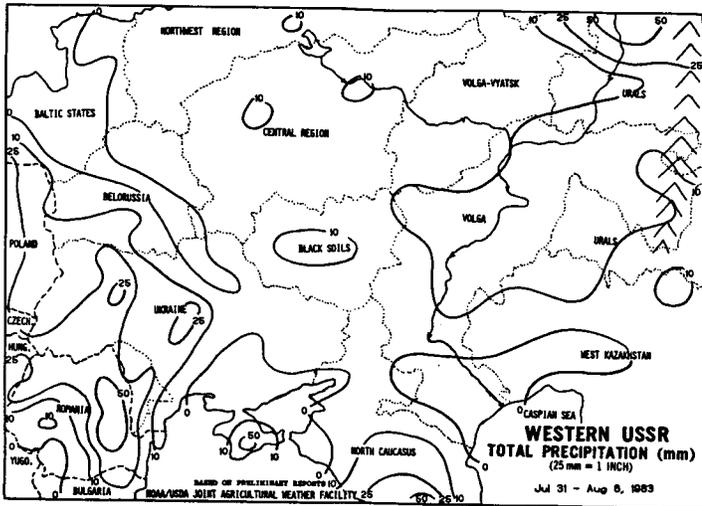
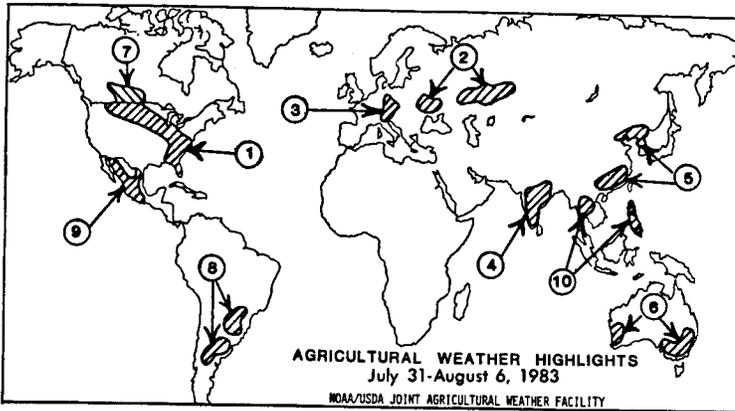
WYOMING: Sunny and warm. Five to ten degrees above normal. Relative humidity well above normal. Widely scattered heavy rainfall.

Topsoil moisture adequate 53% State. Last year adequate 55% State. Days suitable for fieldwork: 7.0. Harvest of small grains underway in some areas. Winter wheat: 50% mature; 35% harvested. Normally 73% harvested. Barley: 40% turning color; 35% mature; 15% harvested. Normally 24% harvested. Spring wheat: 40% mature; small amount harvested. Last year 10% harvested. Oats: 40% turning color; 25% mature; small amount harvested. Normally 16% harvested. Corn 80% tasseled, normal 65%, corn 40% silked, normal 35%. Dry beans: 100% bloom; 55% setting pods. Potatoes 90% bloom. Alfalfa second cutting 15% complete. Other hay harvested, 60%. Ranges and pastures mostly good condition. Prospects for fall and winter grazing mostly fair to good.

International Weather and Crop Summary

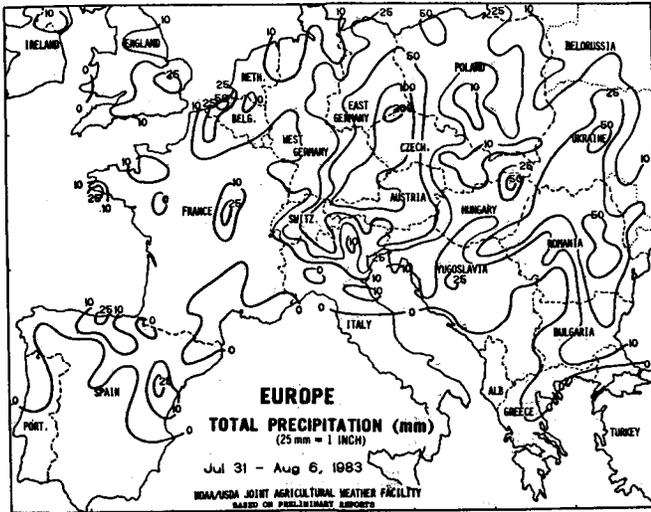
July 31 to August 6

1. UNITED STATES ... Rains improve the critical shortage of soil moisture over most of the Southeast and slows crop deterioration in the eastern Corn Belt. The western Corn Belt continues to be mostly dry. Unseasonably hot weather advances the maturity of small grains in the northern Plains and Great Lakes region.
2. USSR ... Showers and thunderstorms will probably produce crop lodging and create harvest delays in southern Belorussia and the western Ukraine. Scattered showers and cooler weather cover maturing spring grains in the New Lands.
3. EUROPE ... Persistent rains are likely to inundate fields creating harvest delays in East Germany, southeastern West Germany, and western Czechoslovakia.
4. SOUTH ASIA ... Moderate monsoon rains cover most rice areas of India. The extreme southern peninsula remains dry, stressing summer crops.
5. EASTERN ASIA ... Dry weather benefits China's rice region. Heavy precipitation is unfavorable for crops in Manchuria and North Korea.
6. AUSTRALIA ... Light showers cover most wheat areas, except in Queensland where dryness favored early wheat growth; crop conditions are generally good but additional rain will be needed during the growing season.
7. CANADA ... Hot, dry weather promotes rapid crop development throughout the Prairie Provinces but excessively high temperatures may adversely affect grain filling.
8. SOUTH AMERICA ... Heavy rain fell again over Santa Catarina, but welcome dry weather covered the region later in the week; persistent dryness in Argentina's wheat area during planting increases the need for widespread areas.
9. MEXICO ... Persistent rains benefit southern Plateau corn belt crops, while dryness stresses crops and livestock over the north-central and northeast areas.
10. SOUTHEAST ASIA ... Near-normal precipitation aids Thai corn and rice areas. Much needed rain continues in the Philippines at a less-than-normal rate.

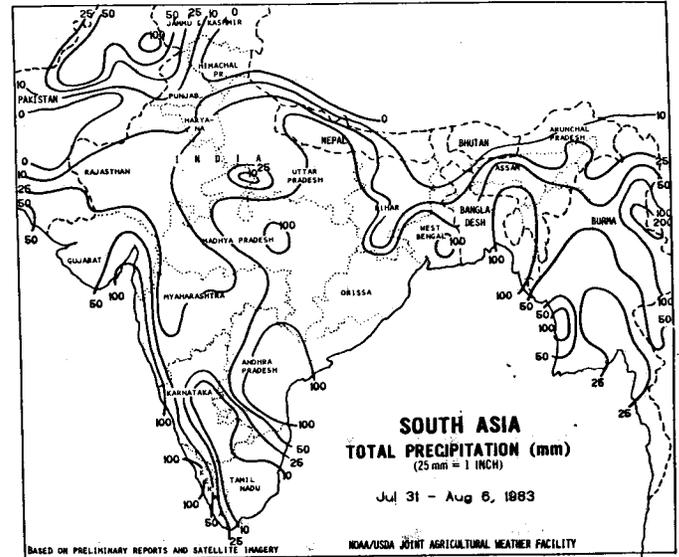


USSR...Generally dry weather covered the Baltic States, northern Belorussia, the Central Region, the Black Soils, and most of the Volga Vyatsk, benefiting maturing spring grains and aiding winter grain harvest activity. Further south, showers and thunderstorms covered crops in southern Belorussia and the western Ukraine late in the week. In addition, gusty winds and locally heavy rains accompanied the thunderstorms, likely producing crop lodging and creating harvest delays. Elsewhere, mostly dry weather covered the eastern Ukraine and northern North Caucasus, aiding the spring grain harvest and benefiting summer crops which normally are maturing. Weekly temperatures were above normal in the west and north, but below normal in the south.

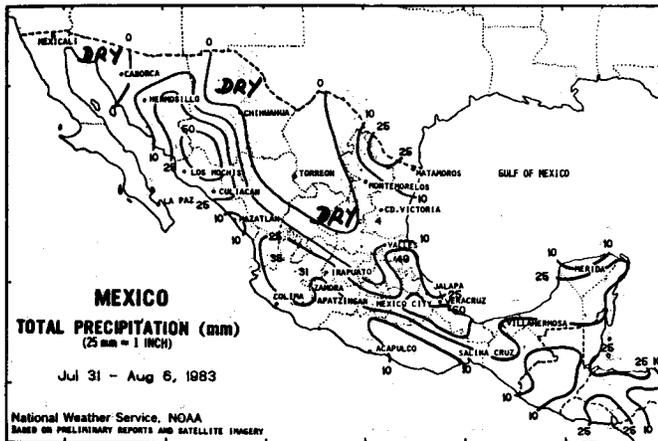
In the New Lands, showers continued to cover spring grain areas of the northwest and some central locations. Spring grains over most of the region are maturing, except those in the extreme north and east, which are probably still in the filling stage. Weekly temperatures were below normal in the north and west, well below normal in the east, and slightly above normal in the southeast. Seasonably warm, dry weather is now needed over the region to benefit grain maturation and aid harvest activity.



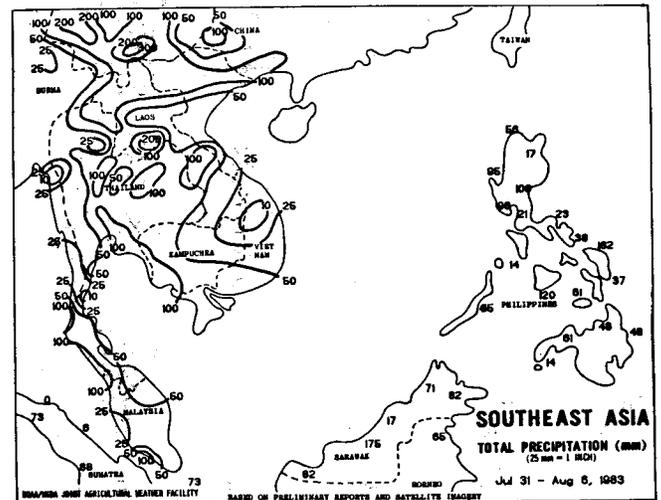
EUROPE...Showers spread from England through West Germany and into Poland by the end of the week. The precipitation which covered England, northern France, and most of West Germany benefited summer crops, but may have caused some delays in the harvest of small grains. Persistent heavy rains covered crop areas in East Germany, southeastern West Germany, and western Czechoslovakia, with rainfall totals in excess of 100mm reported at many locations. The heavy rains in these areas likely inundated fields and could have damaged maturing crops as well as created harvesting delays. In the southeast, showers benefited the corn crop, but reports indicate that the persistent rains of past weeks in Romania, are responsible for fungal diseases on the sunflower crop and drier weather is needed.



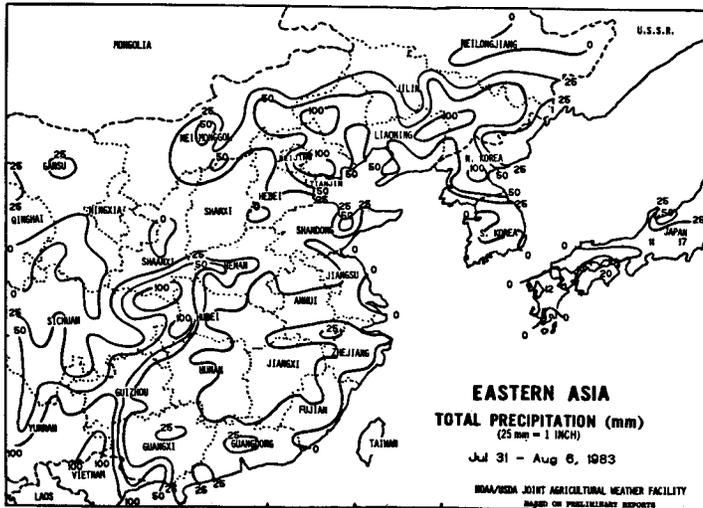
SOUTH ASIA...Monsoon activity was moderate this week as below-normal to normal precipitation fell in India. Moderate to heavy rain benefited the rice areas of Andhra Pradesh, Orissa, eastern Madhya Pradesh, and West Bengal. Relatively lighter amounts of rain fell in the northern rice areas of Uttar Pradesh and Bihar. Autumn rice is in the heading stage in the south, and winter rice is in the vegetative stage. Near-normal precipitation benefited autumn rice on the southwest coast of India. Seasonably warm temperatures and below-normal precipitation stressed cotton in the vegetative stage and groundnuts entering the flowering stage in Karnataka and Tamil Nadu. Heavy rain relieved dry conditions in Bangladesh which had been unfavorable for the rice crop.



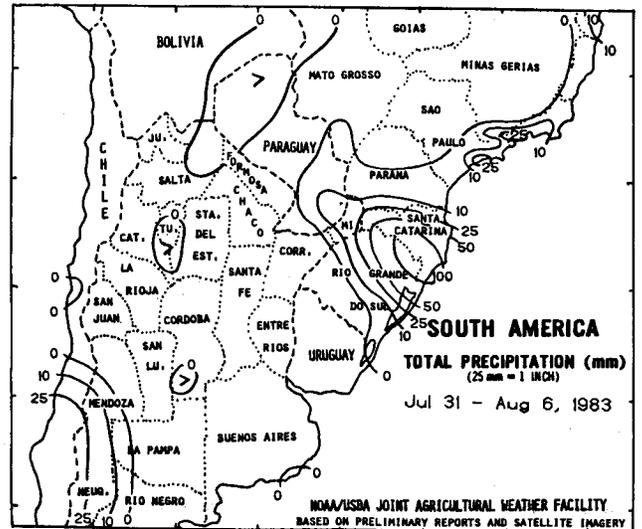
MEXICO...Rains continued over the southern Plateau corn belt benefiting crops which were mostly in the reproductive stage. Rainfall averaged about 30mm in the center of the belt to 10mm along the fringes. Heavy rains doused parts of the west coast farming area and mountain watersheds. Culiacan had 44mm of precipitation and heavier amounts fell further northward. Persistent dryness remained over the north-central region, heavily stressing range vegetation and livestock. The dryness also extended into most of the Northeast, hurting rainfed orchards. The rainy season continued over the southeastern region of Mexico and Central America.



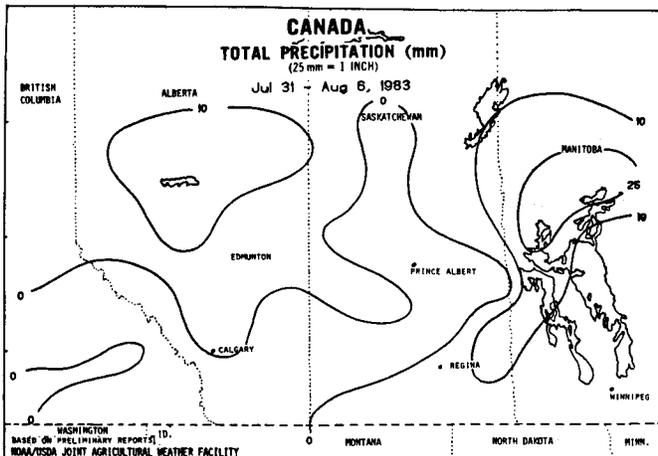
SOUTHEAST ASIA...Moderate to heavy precipitation (50-100mm) covered most crop areas of Thailand and Laos. The heaviest amounts fell in a band through central Thailand benefiting rice in the heading stage. The Northeastern Region was also aided by the recent near-normal precipitation, as accumulations during the past few weeks had been below normal. Some areas of Thai corn had suffered from relatively dry conditions during tasseling and had to rely on irrigation. Temperatures were near normal this week, easing the moisture demand of the crop. Precipitation continues in the Philippines, although at a below-normal rate.



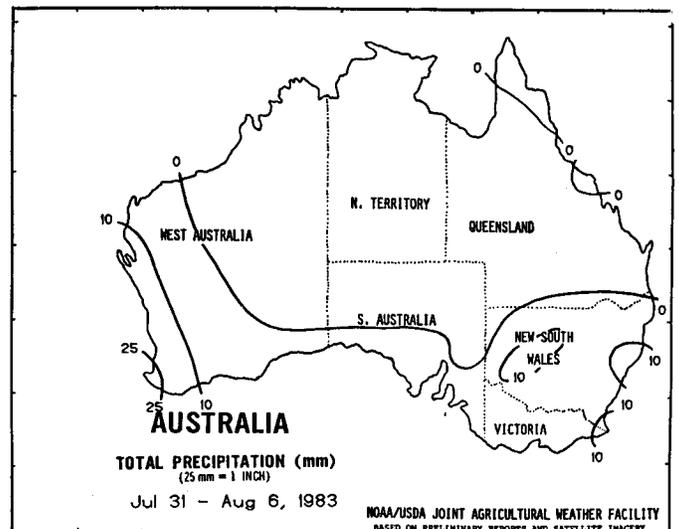
EASTERN ASIA...Mostly dry weather covered a large portion of China's rice region this week. The recent clearing trend has helped to reduce further yield losses resulting from earlier excessive precipitation. Intermediate rice is normally in the filling stage, and late rice is in the late vegetative stage. Light rain in the North China Plain benefited cotton, corn, and soybeans in the reproductive stage. A band of moderate to heavy precipitation extended across northern China from Nei Monggol through Liaoning and Jilin. Heavy amounts were unfavorable for the northeastern corn/soybean area, where adequate moisture already existed. Temperatures were slightly above normal this week in most of China's crop areas. Excessive rain fell in North Korea for the second week while South Korea was dry.



SOUTH AMERICA...Heavy rain fell over Santa Catarina and northern Rio Grande do Sul early in the week, and was followed by a much needed respite of dry weather. Flooding has become a persistent problem throughout southern Brazil, seriously disrupting agriculture. Further north, dry weather continued to favor harvesting of coffee and citrus in Sao Paulo and vicinity. Argentina's crop area was dry with temperatures averaging somewhat below normal for the week. Relatively dry weather persisted over much of Argentina's wheat area during the planting season. Rain is needed soon to establish uniform crop emergence and to improve soil moisture reserves for the upcoming growing season in the major wheat producing provinces of Buenos Aires and Santa Fe.



CANADA...Hot weather spread across the Canadian Prairies during the week, pushing maximum temperatures above 38°C (100°F) on several days in Alberta, Saskatchewan and Manitoba. Mostly dry weather accompanied the excessively high temperatures. These weather conditions promoted rapid crop development, especially benefiting crops in northern growing areas where progress had been slowed by the cool, wet spring and early summer. Spring wheat is mostly in the milk to dough stage and rapeseed is in the podding stage; however, a small portion of the spring-sown crops is still entering the filling period. Persistently high temperatures would adversely affect wheat and other crops at this stage by causing shrivelled kernels and premature cessation of grain development. Relatively cooler weather reduced the heat stress which had developed over Ontario's corn belt during July.

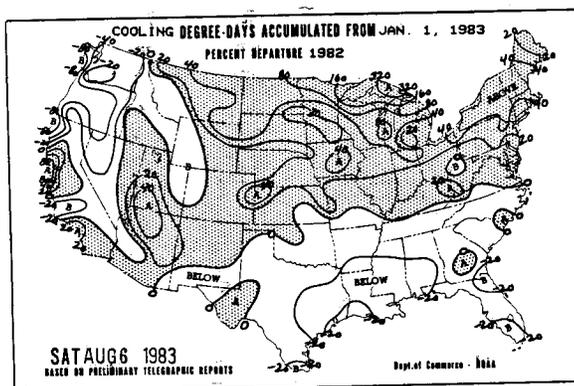
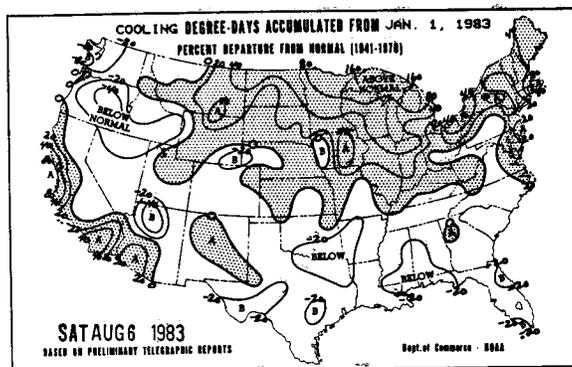
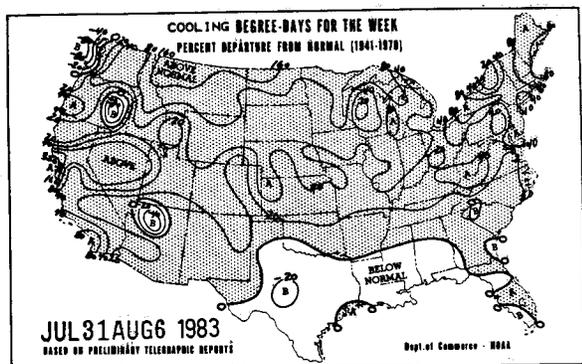


AUSTRALIA...Light showers covered most wheat areas, except in Queensland where dry weather prevailed. Abundant moisture is available for crop growth in Queensland and northern New South Wales. Temperatures were generally near or slightly below-average in the east and somewhat above average in the west. Significant rainfall (in excess of 10mm) moistened soils in Western Australia as weather disturbances brushed the southwest coast of Australia. Crop conditions are generally good as the spring growing season approaches. The crop areas of Western Australia, South Australia, and northern portions of Victoria will need generous rains during critical phases of the growing season through October.



**WEEKLY NEWS BULLETIN
SECOND CLASS**

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, \$300



The Weekly Weather and Crop Bulletin (ISSN 0043-1974) is published weekly and jointly prepared by the U.S. Department of Commerce, National Oceanic and Atmospheric Administration (NOAA) and the U.S. Department of Agriculture (USDA). Publication began in 1872 as the Weekly Weather Chronicle. It is issued under general authority of the Act of January 12, 1895 (44-USC 213), 53d Congress, 3d Session. NOAA is responsible for managing, printing, and distributing the Bulletin. The contents may be reprinted freely, with proper credit.

Annual subscription: domestic \$25, foreign \$33 (in U.S. funds by international money order or check drawn on U.S. bank), payable to U.S. Department of Commerce, NOAA. POSTMASTER: Send address changes to NOAA/USDA Joint Agricultural Weather Facility, USDA South Building, Room 5844, Washington, D.C. 20250. Order subscriptions from the office and address listed above. Second class postage paid at Washington, D.C. and additional mailing offices.

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