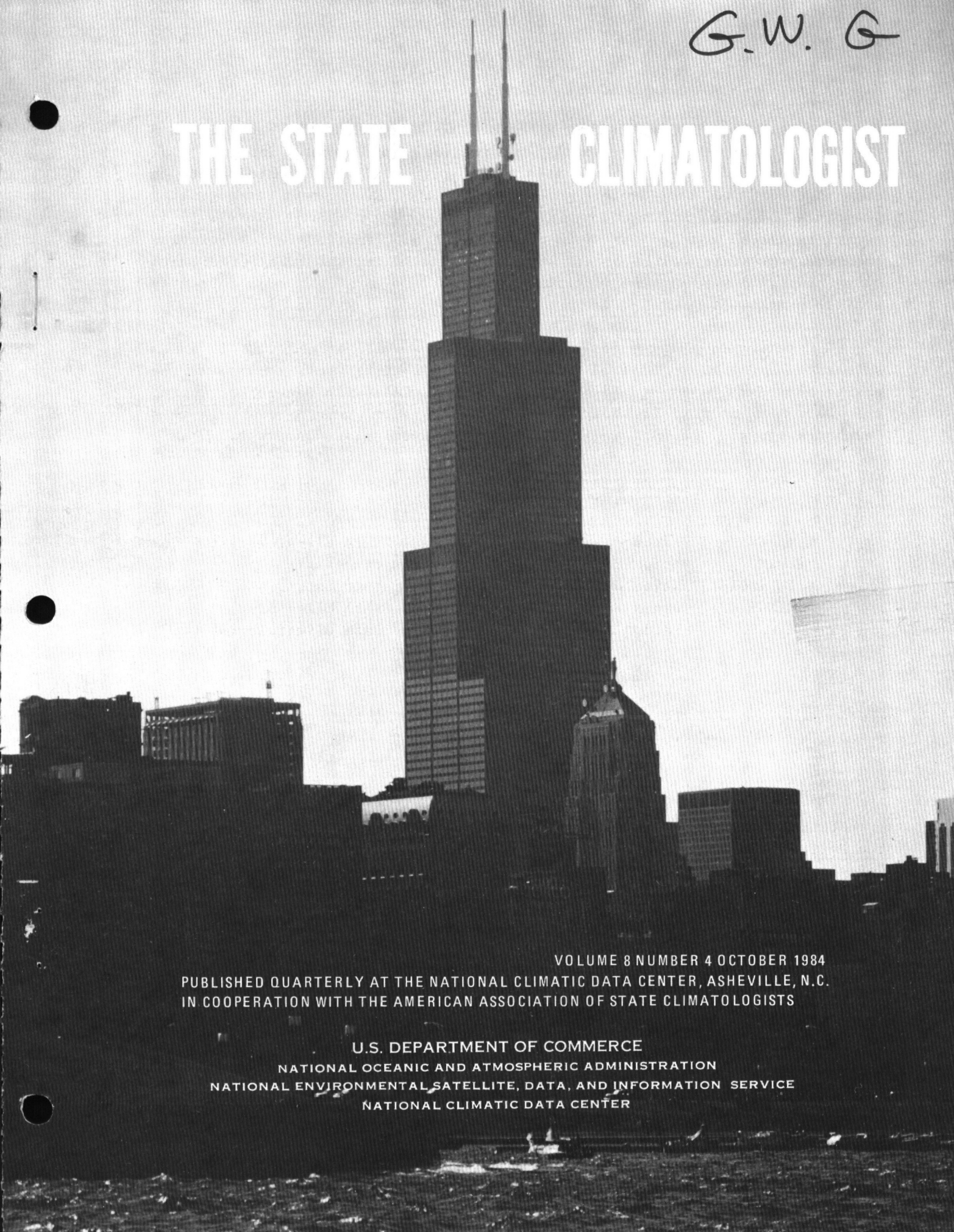


G.W.G

THE STATE

CLIMATOLOGIST



VOLUME 8 NUMBER 4 OCTOBER 1984
PUBLISHED QUARTERLY AT THE NATIONAL CLIMATIC DATA CENTER, ASHEVILLE, N.C.
IN COOPERATION WITH THE AMERICAN ASSOCIATION OF STATE CLIMATOLOGISTS

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE
NATIONAL CLIMATIC DATA CENTER

NCDC Briefs

As a part of NCDC's continuing effort to strengthen the Federal-State relationship in providing climatic information, an "exchange program" was initiated in 1984. This program allowed a number of State Climatologists to come to NCDC to aid Center personnel in the development and quality assurance of the Station Histories for their individual states. In addition, the climatologists were able to work on climatic studies relating to their own state, while others were involved in digital transfer of data onto floppy disks or the digitizing of hourly rainfall not currently available at NCDC.

NCDC personnel and the visiting climatologists all agreed that it was a successful program. Several of the climatologists also expressed the positive aspects of being able to work and interface with each other during the period of overlap in their stays at NCDC. Plans are to continue this "exchange program" in 1985. Watch for the forthcoming announcement.

The 1984 participants were:

ALASKA	Richard Becker	Assistant State Climatologist
IDAHO	Myron Molnau	State Climatologist
ILLINOIS	Wayne Wendland	State Climatologist
MINNESOTA	James Zandlo	Assistant State Climatologist
MISSOURI	Vernon Jones	Assistant State Climatologist

* * * * *

NEW NCDC PUBLICATIONS

NCDC is currently printing an updated version of the Climatography of the United States No. 20. Upon the completion of printing, this two-page (single sheet) publication will be available for 1,900 new sites in the U.S. A selected station has been published on the following page as an example of the new format.

CLIMATOGRAPHY OF THE UNITED STATES NO. 20

ARCADIA, FL

CLIMATOLOGICAL SUMMARY

PERIOD: 1951-80
ELEVATION: 63 FT

	TEMPERATURE (F)														PRECIPITATION TOTALS (INCHES)												
	MEANS			EXTREMES						MEAN OF NUMBER OF DAYS			DEGREE DAYS		*	*					SNOW			MEAN OF NUMBER OF DAYS			
	*	*	*	RECORD HIGHEST	YEAR	DAY	RECORD LOWEST	YEAR	DAY	90 AND ABOVE	32 AND BELOW	32 AND BELOW	0 AND BELOW	HEATING BASE 65							COOLING BASE 65	MEAN	GREATEST MONTHLY	YEAR	GREATEST DAILY	YEAR	DAY
	DAILY MAXIMUM	DAILY MINIMUM	MONTHLY																								
JAN	74.3	48.8	61.6	88+	74	1	20	71	21	0	0	3	0	179	74	2.17	7.93	58	4.00	61	13	.0	.0		3	1	1
FEB	75.7	49.3	62.5	92+	75	21	24+	71	15	0	0	2	0	148	78	2.64	7.10	64	2.48	66	23	.0	.0		4	2	1
MAR	80.8	54.2	67.5	94+	77	21	26+	80	3	2	0	0	0	58	136	2.69	7.10	58	3.63	72	31	.0	.0		4	2	1
APR	85.5	57.8	71.7	98+	75	30	32+	71	8	7	0	0	0	0	204	2.13	8.00	51	5.10	63	07	.0	.0		3	1	1
MAY	89.8	63.2	76.5	101+	63	27	43+	73	17	18	0	0	0	0	357	4.28	9.57	58	5.11	67	22	.0	.0		6	3	1
JUN	91.2	68.2	79.7	99+	52	26	52+	61	2	23	0	0	0	0	441	7.76	17.40	62	6.26	68	04	.0	.0		10	5	2
JUL	92.0	70.1	81.1	100+	61	31	61+	56	31	27	0	0	0	0	499	8.26	17.52	65	3.70	67	16	.0	.0		12	5	3
AUG	92.1	70.9	81.5	99+	56	4	60+	63	20	29	0	0	0	0	512	7.30	17.41	67	4.11	67	12	.0	.0		11	5	2
SEP	90.2	70.1	80.2	98+	52	2	56+	72	24	21	0	0	0	0	456	7.35	17.05	60	7.38	62	21	.0	.0		10	5	2
OCT	85.3	63.5	74.4	98+	73	5	41+	57	28	5	0	0	0	0	291	3.95	13.98	52	7.38	53	09	.0	.0		5	3	1
NOV	79.6	55.6	67.6	93+	59	6	23+	70	25	0	0	0	0	41	119	1.97	4.95	80	3.87	69	14	.0	.0		2	1	1
DEC	75.1	49.9	62.5	89+	72	6	18+	62	13	0	0	2	0	142	64	2.19	9.10	62	5.00	62	23	.0	.0		3	1	1
YEAR	84.3	60.1	72.2	101	MAY		DEC		13	132	0	7	0	568	3231	52.69	17.52	65	7.38	62	21	.0	.0		73	34	17

*FROM 1951-80 NORMALS

ESTIMATED VALUE BASED ON DATA FROM SURROUNDING STATIONS

+ ALSO ON EARLIER DATES.

DEGREE DAYS TO SELECTED BASE TEMPERATURES (F)

BASE	HEATING DEGREE DAYS												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
BELOW 65	179	148	58	0	0	0	0	0	0	0	41	142	568
60	99	78	16	0	0	0	0	0	0	0	9	64	266
57	60	45	7	0	0	0	0	0	0	0	0	33	145
55	41	31	0	0	0	0	0	0	0	0	0	20	92
50	14	11	0	0	0	0	0	0	0	0	0	5	30
BASE	COOLING DEGREE DAYS												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
ABOVE 55	245	241	392	501	667	741	809	822	756	601	378	252	6405
57	202	199	333	441	605	681	747	760	696	539	321	203	5727
60	148	148	249	351	512	591	654	667	606	446	237	142	4751
65	74	78	136	204	357	441	499	512	456	291	119	64	3231
70	28	31	58	82	202	291	344	357	306	148	43	20	1910

DERIVED FROM THE 1951-80 MONTHLY NORMALS

PROBABILITY THAT THE MONTHLY PRECIPITATION WILL BE EQUAL TO OR LESS THAN THE INDICATED PRECIPITATION AMOUNT MONTHLY PRECIPITATION (INCHES)

PROBABILITY LEVELS	MONTHLY PRECIPITATION (INCHES)											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
.05	.08	.50	.18	.00	.55	2.78	2.53	3.61	2.42	.21	.17	.38
.10	.25	.74	.35	.07	.89	3.51	3.32	4.23	3.12	.43	.31	.58
.20	.57	1.13	.69	.33	1.50	4.57	4.49	5.07	4.14	.90	.57	.90
.30	.88	1.48	1.06	.63	2.10	5.45	5.49	5.75	5.01	1.43	.84	1.20
.40	1.23	1.85	1.47	.98	2.73	6.30	6.47	6.37	5.85	2.04	1.14	1.50
.50	1.62	2.24	1.95	1.40	3.42	7.17	7.48	7.00	6.72	2.76	1.49	1.83
.60	2.08	2.68	2.53	1.91	4.23	8.11	8.59	7.66	7.66	3.63	1.89	2.21
.70	2.67	3.21	3.26	2.58	5.23	9.21	9.90	8.41	8.77	4.76	2.40	2.67
.80	3.47	3.92	4.29	3.53	6.59	10.61	11.58	9.35	10.19	6.35	3.10	3.28
.90	4.81	5.06	6.02	5.16	8.80	12.77	14.21	10.77	12.40	9.06	4.28	4.26
.95	6.13	6.14	7.73	6.79	10.95	14.76	16.65	12.03	14.43	11.77	5.43	5.20

THESE VALUES WERE DETERMINED FROM THE INCOMPLETE GAMMA DISTRIBUTION.

FREEZE DATA

PROBABILITY OF LATER DATE IN SPRING (THRU JULY 31) THAN INDICATED(*)

TEMP (F)	PROBABILITY OF LATER DATE IN SPRING (THRU JULY 31) THAN INDICATED(*)								
	.90	.80	.70	.60	.50	.40	.30	.20	.10
	SPRING FREEZE DATES (MO/DAY)								
36	1/29	2/09	2/17	2/24	3/02	3/08	3/15	3/23	4/03
32	0/00	1/15	1/25	2/02	2/08	2/15	2/21	3/01	3/11
28	0/00	0/00	0/00	12/30	1/13	1/23	2/01	2/11	2/23
24	0/00	0/00	0/00	0/00	0/00	0/00	0/00	12/21	1/12
20	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
16	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00

PROBABILITY OF EARLIER DATE IN FALL (BEGINNING AUG 1) THAN INDICATED(*)

TEMP (F)	PROBABILITY OF EARLIER DATE IN FALL (BEGINNING AUG 1) THAN INDICATED(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
	FALL FREEZE DATES (MO/DAY)								
36	11/12	11/19	11/24	11/28	12/01	12/05	12/09	12/14	12/21
32	11/22	12/03	12/11	12/18	12/24	12/31	1/09	1/22	0/00
28	12/16	12/27	1/05	1/14	1/25	2/12	0/00	0/00	0/00
24	12/18	1/06	0/00	0/00	0/00	0/00	0/00	0/00	0/00
20	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
16	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00

PROBABILITY OF LONGER THAN INDICATED FREEZE FREE PERIOD (DAYS)

TEMP (F)	PROBABILITY OF LONGER THAN INDICATED FREEZE FREE PERIOD (DAYS)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
	FREEZE FREE PERIOD								
36	312	299	289	281	274	266	258	248	235
32	>365	>365	338	324	315	307	299	290	279
28	>365	>365	>365	>365	>365	>365	344	326	313
24	>365	>365	>365	>365	>365	>365	>365	>365	>365
20	>365	>365	>365	>365	>365	>365	>365	>365	>365
16	>365	>365	>365	>365	>365	>365	>365	>365	>365

(*)PROBABILITY OF OBSERVING A TEMPERATURE AS COLD, OR COLDER, LATER IN THE SPRING OR EARLIER IN THE FALL THAN THE INDICATED DATE.
0/00 INDICATES THAT THE PROBABILITY OF OCCURRENCE OF THRESHOLD TEMPERATURE IS LESS THAN INDICATED PROBABILITY.

GROWING DEGREE UNITS TO SELECTED BASE TEMPERATURES (F)

BASE	GROWING DEGREE UNITS													
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	
40	M	676	637	860	958	1139	1199	1281	1295	1212	1071	836	704	11868
	S	676	1313	2173	3131	4270	5469	6750	8045	9257	10328	11164	11868	
45	M	524	498	705	808	984	1049	1126	1140	1062	916	686	551	10049
	S	524	1022	1727	2535	3519	4568	5694	6834	7896	8812	9498	10049	
50	M	379	363	551	658	829	899	971	985	912	761	537	402	8247
	S	379	742	1293	1951	2780	3679	4650	5635	6547	7308	7845	8247	
55	M	250	241	401	508	674	749	816	830	762	606	392	267	6496
	S	250	491	892	1400	2074	2823	3639	4469	5231	5837	6229	6496	
60	M	140	138	262	359	519	599	661	675	612	452	254	152	4823
	S	140	278	540	899	1418	2017	2678	3353	3965	4417	4671	4823	

M = MONTHLY DATA S = SUM OF MONTHLY DATA

GROWING DEGREE UNITS FOR CORN

CORN	GROWING DEGREE UNITS FOR CORN												
	M	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	8023
M	437	418	572	641	765	819	878	889	846	743	557	458	8023
S	437	855	1427	2068	2833	3652	4530	5419	6265	7008	7565	8023	

NOTE: FOR CORN THE BASE IS 50, AND THE DEGREE UNITS ARE ADJUSTED FOR TEMPERATURES BELOW 50 AND ABOVE 86

OTHER CLIMATOLOGICAL DATA ARE AVAILABLE IN A VARIETY OF SUMMARIES AND FORMATS, SUCH AS THE CLIMATOGRAPHY OF THE UNITED STATES: NO. 60 - CLIMATE OF STATES; NO. 81 - MONTHLY NORMALS (AND SUPPLEMENTS: ANNUAL DEGREE DAYS TO SELECTED BASES DERIVED FROM THE 1951-80 NORMALS; AND MONTHLY PRECIPITATION PROBABILITIES, SELECTED PROBABILITY LEVELS DERIVED FROM THE 1951-80 NORMALS); NO. 84 - DAILY NORMALS; NO. 85 - DIVISIONAL NORMALS. A VARIETY OF DATA IS AVAILABLE EITHER ON MAGNETIC TAPE, MICROFICHE, OR PAPER COPY.

TO OBTAIN INFORMATION ABOUT CLIMATOLOGICAL DATA AND RELATED PUBLICATIONS, CONTACT:

DIRECTOR
NATIONAL CLIMATIC DATA CENTER
FEDERAL BUILDING
ASHEVILLE, NC 28801-2696
(OR TELEPHONE: (704) 259-0682)

DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE
NATIONAL CLIMATIC DATA CENTER
ASHEVILLE, NC



REGIONAL AND NATIONAL MONTHLY, SEASONAL AND ANNUAL TEMPERATURE
WEIGHTED BY AREA 1895 - 1983

Historical Climatological Series 4-3

This publication contains areally-averaged temperature data for the conterminous United States and nine climatologically-defined groups of states (i.e., regions), for the 89-year period, 1895 through 1983. Tabular listings give the average temperatures by month, and groups of months (which includes the seasons and year) for the individual years in the period of record. The rank of the year-value of the calendar event is also given, which facilitates the identification of inter-annual, intra-annual, and intra-seasonal climate variability. Time series plots of annual mean temperatures for the nation and each region depict the inter-annual variation about the long-term (1895-1983) mean temperature.

The data presented in this publication are available in digital form on magnetic tape and/or floppy disk, and can be purchased by written order from:

National Climatic Data Center
Federal Building
Asheville, NC 28801-2696

or, by calling (704) 259-0682 (FTS 672-0682).

The data summaries in this publication differ significantly, in some respects, from those given in HCS 4-1, State, Regional, and National Monthly and Annual Temperatures Weighted by Area (January 1931-December 1982). The differences are:

- a. The period of record for HCS 4-1 is 1931 through 1982 (52 years), whereas this publication contains data for the 89-year period, 1895-1983.
- b. This publication does not contain individual state data.
- c. This publication contains month-grouped data which includes the usual seasonal monthly groups: Winter (December-February), Spring (March-May), Summer (June-August), and Fall (September-November).
- d. The rank order in this publication is opposite to that given in HCS 4-1; i.e., here the number one rank is the coldest temperature, whereas in HCS 4-1 it is the warmest temperature.
- e. The definitions of the regions, in terms of specific groupings of contiguous states, differ significantly. In HCS 4-1 the regions are the nine census regions as defined and used by the Bureau of the Census; in this publication the nine regions are climatologically-defined groups of adjoining states (Karl and Koscielny, 1982) which were shown to be climatically similar during the period 1895-1981.

CURRENT NCDC STAFF AND THEIR TELEPHONE NUMBERS

DIRECTOR	Dr. Kenneth D. Hadeen	704-259-0476
DEPUTY DIRECTOR	Dr. Rex J. Snodgrass	704-259-0238
PROJECTS COORDINATOR	Stephen R. Doty	704-259-0475
STATE CLIMATOLOGIST LIAISON	Grant W. Goodge	704-259-0473
SYSTEMS INTEGRATION OFFICER	Kenneth D. Davidson	704-259-0474
DATA ADMINISTRATOR	Richard M. Davis	704-259-0384
CHIEF DATA OPERATIONS DIVISION	Robert G. Quayle	704-259-0733
CHIEF COOPERATIVE DATA BRANCH	Dr. Alan L. McNab	704-259-0281
CHIEF PRIMARY DATA BRANCH	Richard S. Cram	704-259-0283
CHIEF AUTOMATED DATA PROCESSING DIVISION	Grady F. McKay	704-259-0205
CHIEF DATA TRANSLATION BRANCH	Irma S. Lewis	704-259-0429
CHIEF COMPUTER SUPPORT BRANCH	Garland B. Craft	704-259-0667
CHIEF DAMUS FACILITY BRANCH	John J. Jacobs	704-259-0398
CHIEF CLIMATOLOGICAL ANALYSIS DIVISION	Frank T. Quinlan	704-259-0245
CHIEF APPLIED CLIMATOLOGY BRANCH	Michael J. Changery	704-259-0765
CHIEF STATISTICAL CLIMATOLOGY BRANCH	Dr. W. James Koss	704-259-0319
CHIEF INFORMATION SERVICES DIVISION	Herschel L. Suits	704-259-0680
CHIEF ARCHIVAL SERVICES BRANCH	Thomas A. Prizio	704-259-0785
CHIEF USER SERVICES BRANCH	Robert L. Money	704-259-0400
CHIEF ADMINISTRATIVE AND TECH- NICAL SERVICES DIVISION	George H. Cooper	704-259-0200
CHIEF ADMINISTRATIVE BRANCH	Clyde J. Cable	704-259-0209
CHIEF TECHNICAL SERVICES BRANCH (ACTING)	George H. Cooper	704-259-0200

CHIEF SATELLITE DATA SERVICES DIVISION	Greg W. Hunolt	301-763-8185
CHIEF DATA SERVICES BRANCH	Bruce H. Needham	301-763-8106
CHIEF APPLICATIONS BRANCH	Henry F. Drahos Jr.	301-763-1372
NON-SATELLITE CUSTOMER SERVICE		704-259-0682
SATELLITE CUSTOMER SERVICE		301-763-8111

RETIREMENT

Dr. A. Boyd Pack retired on September 1, 1984, from Cornell University and his association with the Northeast Regional Climate Center.

Dr. Pack is a native of Utah. He did his undergraduate studies at Brigham Young University. He was granted the Ph.D. degree by North Carolina State University after earlier graduate studies at the University of Massachusetts. His meteorological training was obtained at the Massachusetts Institute of Technology following which he served as a weather forecaster in the U.S. Army Air Force for three years, mostly in the European Theatre of Operations.

Dr. Pack was employed at the Tobacco Laboratory of the Connecticut Agricultural Experiment Station before joining the U.S. Weather Bureau (predecessor to the National Oceanic and Atmospheric Administration) in 1956 as State Climatologist for Connecticut and Rhode Island. Following a two-year tenure in South Dakota as State Climatologist, Dr. Pack moved to the Cornell University campus in 1962 to assume the newly created position in the Weather Bureau of State Climatologist for New York State. He worked in this capacity until the State Climatologist was terminated throughout the country by NOAA in 1973. During the last eleven years Dr. Pack has been employed by the New York State College of Agriculture and Life Sciences at Cornell and he has served the Meteorology section of the Department of Agronomy in various capacities, including teaching, extension, and as the Assistant State Climatologist in the Northeast Regional Climate Center.

While working at Cornell he has been particularly interested in various aspects of New York's climate and their influence on the agriculture and natural resources of the state. During retirement Dr. Pack will continue to reside in the Ithaca area and maintain contact with colleagues at Cornell.

NCDC Customer Service Activity by State and Region

Robert G. Quayle

The primary purpose of gaging NCDC customer activity on a state and regional basis was to determine where possible future marketing efforts could increase productive use of climatic data. The results may also be used to learn whether vigorous state and regional climatological programs appear to correlate with use of NCDC services. Estimates were made of annual customer orders and publication subscriptions per 100,000 population for each state and several regions. Future sampling may be required to refine these estimates.

Computations were based on three sets of data:

1. 1980 U. S. Census figures were the most conveniently available population statistics. U. S. Census regions were used in preference to other regional designations so that all areas of the country could be covered by a single national system.
2. Non-Satellite customer orders processed at Asheville were sampled for a period of approximately 100 days covering most of the summer of 1984, then adjusted to estimated annual totals by multiplication by 3.6. This artificial adjustment was made to facilitate intercomparison with other annual statistics. In retrospect, the 100-day period may have been too short. Future statistics should probably include satellite services and should be based on actual annual totals. However, the Asheville office automation system which stores information on customer orders is only capable of retaining about 100 days of Asheville data. To broaden the exercise would have required considerably more time for programming and processing. Customer orders, now numbering about 30 to 40 thousand per year, were used in preference to all services, which total about 75,000 per year. Orders include paid and exchange deliveries of hard copy or digital data to customers. Services include orders plus unpaid telephone information deliveries and other freebies.
3. Subscriber addresses were counted by zip code and totals produced for each state. Exchange and paid subscribers were included. The subscriber total of about 38,000 is considerably less than the total subscriptions (about 100,000), since many subscribers have multiple subscriptions. Publications counted were: Local Climatological Data, Climatological Data, Hourly Precipitation Data, Storm Data, and Monthly Climatic Data for the World.

The results, unmassaged by any statistical tests or inferences, are shown in the table. No strong correlation between the level of activity of state climatologist programs and NCDC services is apparent. Chi-squared tests, t-tests, maps, bar graphs and various state combinations are among the varieties of mischief that could be perpetrated using these numbers. Have fun.

STATE OR REGION	POPULATION (MILLIONS)	RATE (RANK) PER 100,000 Estimated Annual Orders	Sub- scribers	POPULATION Orders Plus Sub- scribers
U. S.	226.5	16.1	16.8	32.9
NEW ENGLAND	12.3	18.7	20.3	39.0
MAINE	1.1	12.8 (32)	17.4 (28)	30.2 (35)
NEW HAMPSHIRE	.9	27.0 (05)	22.1 (21)	49.0 (11)
VERMONT	.5	18.3 (14)	33.2 (08)	51.5 (06)
MASSACHUSETTS	5.7	21.0 (10)	14.9 (42)	35.8 (24)
RHODE ISLAND	.9	12.5 (34)	19.7 (23)	32.3 (29)
CONNECTICUT	3.1	16.2 (18)	29.0 (11)	45.2 (13)
MIDDLE ATLANTIC	36.8	19.4	16.2	35.6
NEW YORK	17.6	18.7 (12)	16.1 (34)	34.8 (27)
NEW JERSEY	7.4	26.0 (06)	15.5 (38)	41.5 (18)
PENNSYLVANIA	11.9	16.3 (17)	16.7 (31)	33.0 (28)
EAST NORTH CENTRAL	41.7	13.5	15.6	29.2
OHIO	10.8	10.6 (38)	15.7 (37)	26.3 (43)
INDIANA	5.5	8.2 (47)	14.3 (45)	22.5 (49)
ILLINOIS	11.4	18.4 (13)	17.3 (30)	35.7 (25)
MICHIGAN	9.3	15.1 (24)	13.1 (48)	28.2 (39)
WISCONSIN	4.7	11.7 (37)	18.1 (27)	29.8 (36)
WEST NORTH CENTRAL	17.2	15.1	25.2	40.2
MINNESOTA	4.1	16.1 (20)	23.3 (18)	39.3 (20)
IOWA	2.9	13.0 (31)	22.4 (19)	35.4 (26)
MISSOURI	4.9	16.9 (16)	20.3 (22)	37.2 (23)
NORTH DAKOTA	.7	9.4 (42)	38.8 (06)	48.1 (12)
SOUTH DAKOTA	.7	10.4 (40)	39.2 (05)	49.7 (10)
NEBRASKA	1.6	14.0 (30)	36.5 (07)	50.5 (08)
KANSAS	2.4	15.7 (22)	26.7 (14)	42.3 (17)
SOUTH ATLANTIC	37.0	21.1	15.6	36.6
DELAWARE	.6	14.5 (26)	23.2 (17)	37.3 (22)
MARYLAND	4.2	31.8 (02)	18.8 (26)	50.6 (07)
DISTRICT OF COLUMBIA	.6	82.3 (01)	52.3 (04)	134.7 (01)
VIRGINIA	5.3	21.9 (09)	19.5 (24)	41.5 (19)
WEST VIRGINIA	1.9	9.0 (44)	15.5 (39)	24.6 (46)
NORTH CAROLINA	5.9	28.0 (04)	15.8 (35)	43.8 (14)
SOUTH CAROLINA	3.1	14.1 (28)	15.0 (41)	29.1 (38)
GEORGIA	5.5	16.3 (19)	14.4 (44)	30.7 (34)
FLORIDA	9.7	15.5 (23)	9.8 (50)	25.3 (45)
EAST SOUTH CENTRAL	14.7	10.1	14.2	24.3
KENTUCKY	3.7	9.0 (43)	16.3 (33)	25.4 (44)
TENNESSEE	4.6	12.4 (35)	14.4 (43)	26.8 (40)
ALABAMA	3.9	10.5 (39)	12.2 (49)	22.7 (48)
MISSISSIPPI	2.5	7.0 (50)	13.6 (47)	20.6 (51)
WEST SOUTH CENTRAL	23.7	14.3	15.6	29.9
ARKANSAS	2.3	8.3 (46)	15.7 (36)	24.1 (47)
LOUISIANA	4.2	17.2 (15)	14.1 (46)	31.4 (32)
OKLAHOMA	3.0	7.7 (49)	19.0 (25)	26.7 (42)
TEXAS	14.2	15.8 (21)	15.3 (40)	31.1 (33)
MOUNTAIN	11.4	16.0	29.0	45.0
MONTANA	.8	7.8 (48)	64.6 (02)	72.4 (04)
IDAHO	.9	12.2 (36)	31.4 (09)	43.6 (15)
WYOMING	.5	20.7 (11)	57.1 (03)	77.8 (03)
COLORADO	2.9	25.9 (07)	28.4 (12)	54.3 (05)
NEW MEXICO	1.3	23.2 (08)	26.9 (13)	50.1 (09)
ARIZONA	2.7	9.4 (41)	17.5 (29)	26.9 (41)
UTAH	1.5	8.9 (45)	23.3 (16)	32.2 (30)
NEVADA	.8	13.9 (29)	29.5 (10)	43.4 (16)
PACIFIC	31.8	13.3	12.3	25.6
WASHINGTON	4.1	15.0 (25)	16.3 (32)	31.3 (31)
OREGON	2.6	14.4 (27)	24.8 (15)	39.2 (21)
CALIFORNIA	23.7	12.9 (33)	8.7 (51)	21.6 (50)
ALASKA	.4	28.7 (03)	72.4 (01)	101.1 (02)
HAWAII	1.0	7.1 (51)	22.2 (20)	29.3 (37)

COOPERATIVE DATA IN TRANSITION - THE ROSA * PROJECT

* REMOTE OBSERVATION SYSTEM AUTOMATION

While the communications used to collect cooperative data in the NWS Central Region evolved into an expensive and labor-intensive conglomeration, experience with the AFOS system in Central Region gave rise to optimism regarding capability for using AFOS to enter, store, message and disseminate the subsidiary data along with primary data.

Thus, ROSA was conceived out of necessity to reduce direct communications costs, and to eliminate manual data collection by an already-diminished field staff.

Using ROSA, observers will enter data on a specially designed encoder pad, off line, then review the entry on an LCD display before storage. Once satisfied the entire message is correct, the observer will dial a ROSA computer (one of several) using toll-free lines. Three lines in rotary at the computer end and a fast CPU will assure quick access to the computer. When the computer signals an "okay tone", the observer will press the send button and serial data will flow. The on-line process will take about eight seconds. After receipt, the ROSA computer will collate the data under state headers and pass it to AFOS. Once on the RDC, the data will appear at WSFO Indianapolis and be passed to an S/140 computer at Lafayette (Purdue) where it will be accessible to authorized users such as State Climatologists, Extension Services, etc., via several telephone ports.

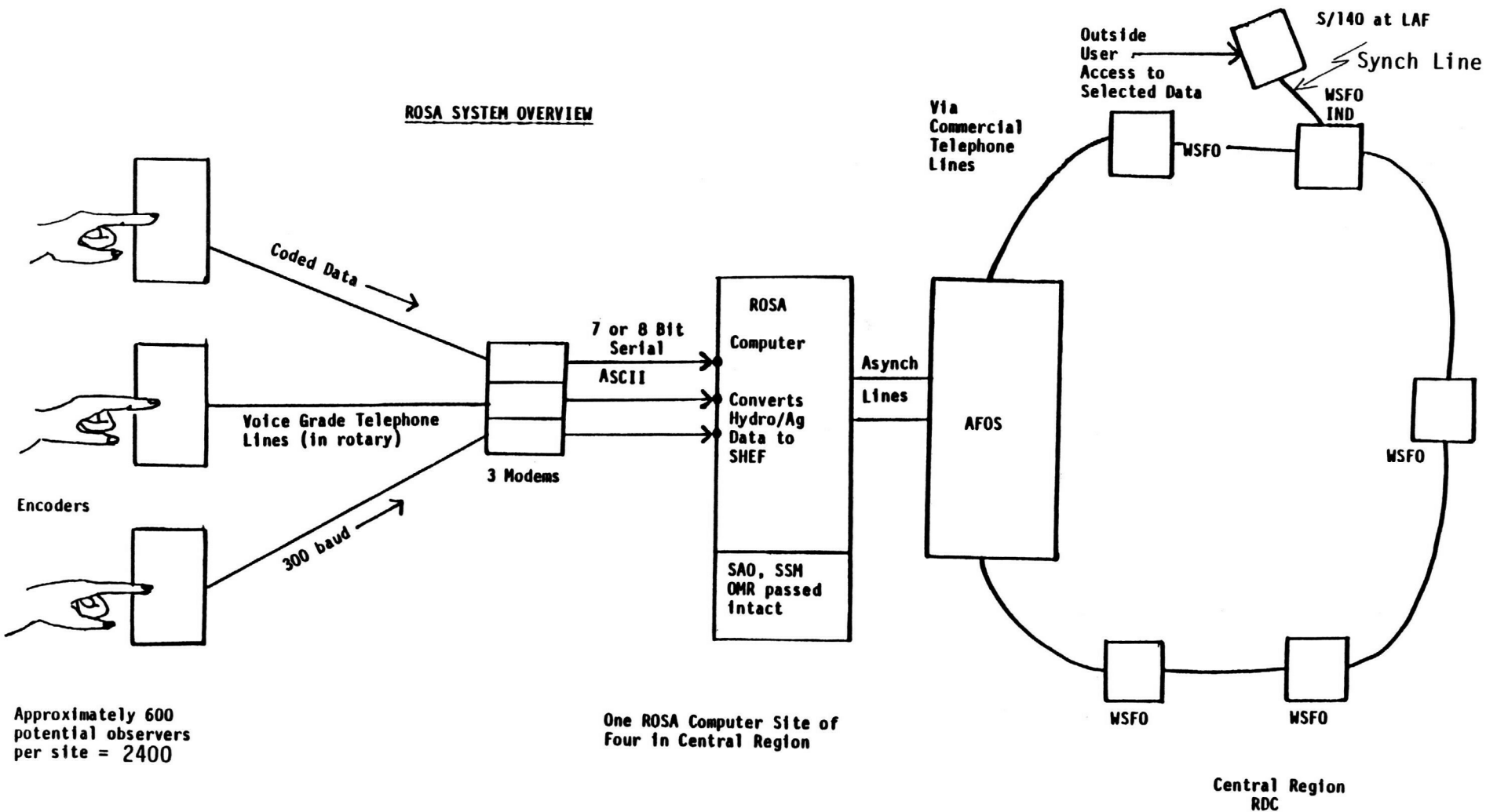
The ROSA system was operationally tested during the first half of 1984, during which the system hardware proved inadequate for the task. Consequently, the ROSA computers are being upgraded. Software, encoder pads, and observer acceptance were flawless.

The ROSA system will start collecting data in early 1985. Observers will be phased into the system until 1500 - 2000 reporting locations in the 14-state Central Region are ROSA-ized.

Of particular interest to climatologists is the establishment, under ROSA, of a skeleton daily reporting network.

As ROSA nears operational status, additional operating information will be made available to all interested users.

ROSA SYSTEM OVERVIEW



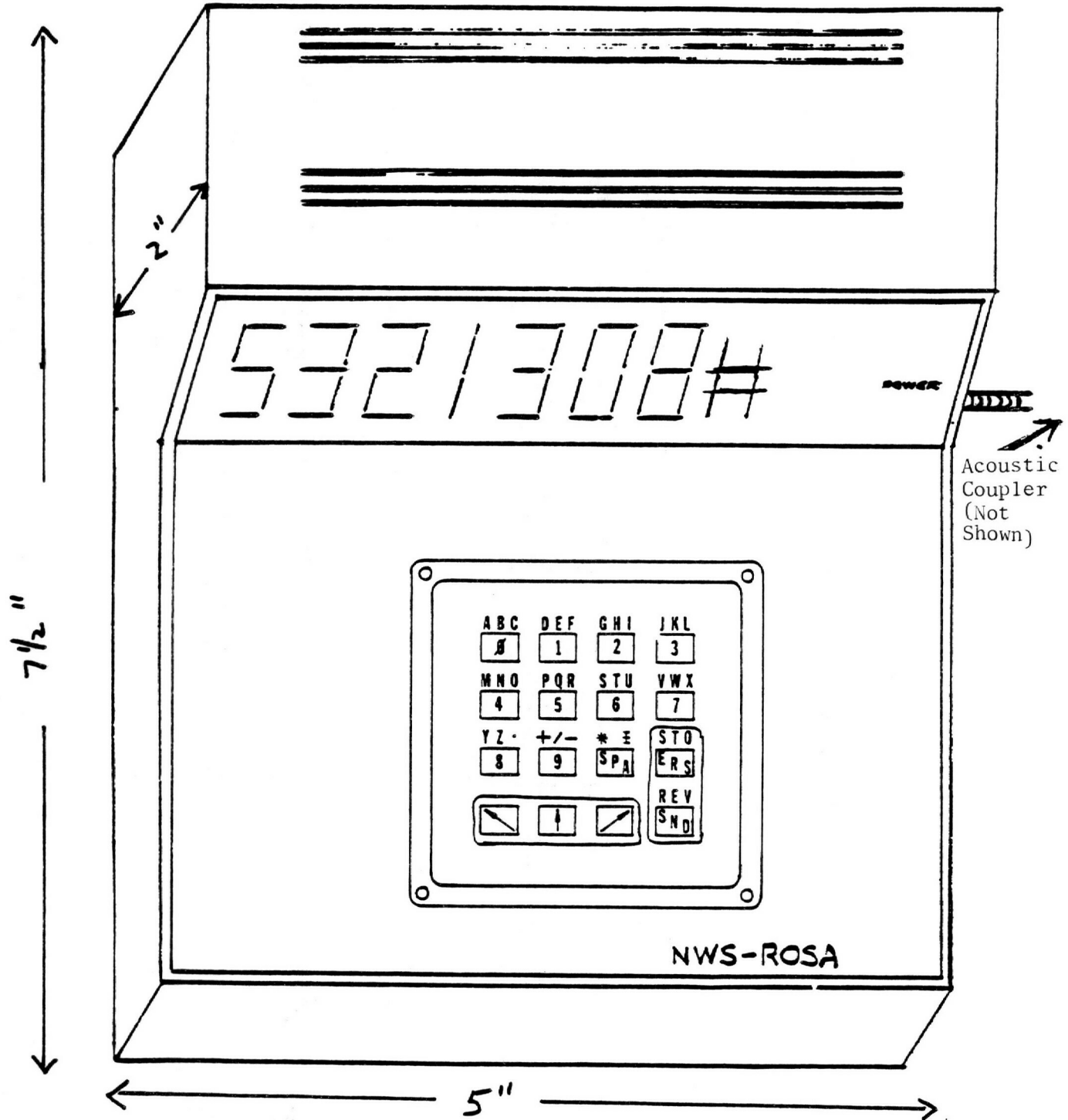
Approximately 600 potential observers per site = 2400

One ROSA Computer Site of Four in Central Region

Central Region RDC

ROSA Encoder (Generic)

(Final version will be slightly different,
mainly a larger keypad)



SAMPLE MESSAGE CYCLE

1. Input from observer to ROSA:

232474#05240700#102*15#335*75#435*97##

Meaning: 232474: Edgerton, MO
 # : Delimiter
 0524 : May 24 (Current Year Assumed)
 0700 : 0700 Local Time (Computer determines Time
 Zone, Daylight or Standard Time)
 10 : Code for 24 hour precipitation to obser-
 vation time
 2*15 : 2.15 inches
 33 : Code for river stage at observation time
 5*75 : Stage 5.75 feet
 43 : Code for river discharge, instantaneous
 5*97 : Discharge 5970 CFS
 ## : End of message code

2. Input to AFOS from ROSA (SHEF format):

EGTM7 0524 C DH 07/HG 5.75/QR 5.97/PPD 2.15
(as part of a collective by State under STLRR3STL header)

3. Input to computer at MAWSC from AFOS:

EGTM7 0524 C DH 07/HG 5.75/QR 5.97/PPD 2.15
(as part of a collective by State)

4. Output to Weather Wire from AFOS:

Appropriate Heading

	<u>Stage (ft)</u>	<u>Discharge (KCFS)</u>	<u>24 Hr. PCPN(in)</u>	<u>Temperature</u>	
				<u>Current</u>	<u>Max/Min</u>
Edgerton, MO	5.75	5.97	2.15	--	-/-
Anyplace, MO		-etc.-			
-etc.-					

5. Output from computer at MAWSC:

As in 2. above (under negotiation with Coop users`

U.S. HISTORICAL CLIMATOLOGY NETWORK

Status Report, October 1984

The National Climatic Data Center (NCDC) has produced a digital file of station history and monthly temperature and precipitation data for 348 of the 1,260 U.S. Historical Climatology Network (HCN) stations listed in the July issue of The State Climatologist. Following is an inventory of history and data for 390 stations, which includes 42 additional New York stations that were processed in 1983 for NCDC's HCN program for that state.

Three priorities were assigned to the 1,260 HCN stations based on period of existing digital monthly data in NCDC's TD-3220 file. This was done to permit completion of as many stations as possible for a multi-year task with only FY-84 funds assured. The 348 HCN stations just completed represent the priority 1 set; all had digital data existing earlier than 1931.

Department of Energy is providing FY-85 funds, and 562 stations (priority 2) are scheduled for completion by October 1985. The remaining 350 HCN stations (priority 3) and the additional stations that the State Climatologists (SC) are recommending will be processed in FY-86 if funds become available.

Eleven SCs have responded to NCDC's call for help in the July State Climatologist publication and at the August SC meeting in Chicago. Each has recommended stations for inclusion in the HCN. We are routinely reviewing the histories for these stations and assigning qualified stations a priority 4 for processing. A few SCs also provided inventories of digital data they hold and will be providing digital data to supplement our files. These data are to be used in editing and supplementing the HCN stations and to increase the numbers of HCN stations. NCDC, in turn, is to provide these SCs with a digital file of history and data for their states after the HCN task is completed. Such help will save time by not having to process data from NCDC's non-digital data sources and permit completion of more stations during FY-85. We are hoping to hear from the remaining SCs soon!

Thanks for your help.

Bill Brower
National Climatic Data Center
Federal Building
Asheville, NC 28801-2696
Telephone: (704) 259-0453 (FTS 672-0453)

PRIORITY 1 STATIONS FOR HISTORICAL CLIMATOLOGY NETWORK

STATE & STATION NAME	STN-DIV	LAT-N	LONG-W	ELVFT	BEGIN YEAR - TOTAL YEARS IN DIGITAL FILE				XREF
					HISTORY	PRECIP	AVG TEMP	EXT TEMP	
AZ FORT VALLEY	3160-02	35-16	111-44	7347	1909- 74	1909- 74	1909- 74	1909- 74	
AZ SELIGMAN	7716-03	35-19	112-53	5250	1888- 81	1889- 80	1888- 81	1904- 79	
AZ WILLIAMS	9359-02	35-15	112-11	6750	1888- 87	1888- 87	1888- 87	1897- 84	
AR EUREKA SPRINGS 3WNW	2356-01	36-25	93-47	1420	1888- 83	1888- 83	1888- 83	1902- 81	
AR FAYETTEVILLE	2442-01	36-05	94-10	1370	1871- 67	1870- 41	1881- 39	1893- 34	TO 2444
AR FAYETTEVILLE EXP STN	2444-01	36-06	94-10	1270	1926- 57	1926- 57	1926- 57	1926- 57	FROM 2442
AR GRAVETTE	2930-01	36-24	94-28	1260	1898- 85	1898- 85	1898- 85	1898- 85	
AR OZARK	5508-04	35-29	93-50	396	1891- 89	1891- 88	1891- 88	1892- 87	
CA BERKELEY	0693-04	37-52	122-15	345	1886- 97	1886- 97	1886- 97	1893- 90	
CA CUYAMACA	2239-06	32-59	116-35	4640	1887- 96	1887- 96	1899- 84	1910- 73	
CA DAVIS	2294-02	38-32	121-46	60	1871-112	1871-112	1871-109	1908- 75	
CA INDIO U S DATE GARDEN	4259-07	33-44	116-15	11	1877-106	1877-106	1877-106	1904- 79	
CA LODI	5032-05	38-07	121-17	40	1881-102	1882- 86	1882- 83	1893- 72	
CA MARYSVILLE	5385-02	39-09	121-36	57	1857-119	1862-114	1857-110	1897- 80	
CA PETALUMA FIRE STN #3	6826-01	38-14	122-38	27	1871- 95	1871- 95	1893- 73	1913- 70	
CA VACAVILLE	9200-02	38-22	121-57	105	1880-103	1880-103	1887- 96	1905- 78	
CA YREKA	9866-01	41-43	122-38	2625	1871-105	1871-105	1893- 79	1893- 79	
CO COLLEBRAN	1741-02	39-15	107-58	5980	1892- 91	1892- 87	1900- 79	1900- 79	
CO DEL NORTE	2184-05	37-40	106-21	7884	1889- 69	1891- 67	1891- 67	1893- 65	
CO DURANGO	2432-02	37-17	107-53	6600	1886- 94	1886- 94	1886- 92	1894- 89	
CO EADS	2446-01	38-29	102-47	4215	1907- 75	1907- 75	1907- 75	1907- 75	
CO GUNNISON	3662-02	38-32	106-56	7664	1884- 95	1884- 95	1884- 94	1893- 90	
CO MONTROSE #2	5722-02	38-29	107-53	5785	1885- 97	1885- 96	1885- 91	1893- 83	
CO SAGUACHE	7337-05	38-05	106-08	7692	1886- 93	1886- 93	1886- 93	1894- 89	
CT STORRS	8138-02	41-48	72-15	650	1888- 95	1889- 93	1892- 89	1893- 79	
FL BARTOW	0478-04	27-54	81-51	120	1887- 96	1887- 96	1887- 96	1893- 90	
FL INVERNESS	4289-03	28-50	82-20	50	1899- 84	1899- 84	1899- 84	1899- 84	
FL SAINT LEO	7851-03	28-20	82-16	190	1890- 91	1890- 91	1890- 91	1891- 90	
FL TARPON SPRINGS	8824-04	28-09	82-45	8	1884- 99	1884- 99	1884- 99	1891- 92	CNTY WILLSBOROUGH 1897-0
ID GRACE	3732-10	42-35	111-44	5550	1907- 76	1907- 76	1907- 76	1907- 76	CNTY BANNOCK PRE 11/1952
ID LIFTON PUMPING STATION	5275-10	42-07	111-18	5926	1919- 64	1919- 64	1919- 64	1919- 64	
IL CHARLESTON	1436-07	39-29	88-10	680	1896- 87	1896- 87	1896- 87	1896- 87	
IL DECATUR	2193-04	39-50	89-01	620	1868-115	1868-104	1875- 96	1893- 90	
IL HOOPESTON 1NE	4198-05	40-28	87-40	710	1887- 83	1887- 83	1887- 83	1887- 83	
IL MONMOUTH	5768-03	40-55	90-38	770	1881-102	1881- 98	1881- 99	1893- 90	
IL MT VERNON 3NE	5943-09	38-21	88-52	490	1878- 91	1878- 91	1879- 90	1895- 88	
IL SPARTA	8147-08	38-08	89-43	520	1887- 96	1887- 96	1887- 96	1893- 90	
IL URBANA	8740-05	40-06	88-14	743	1888- 95	1888- 95	1888- 95	1888- 95	
IL WINDSOR	9354-07	39-26	88-36	685	1885- 84	1885- 84	1885- 84	1887- 82	
IN ANGOLA	0200-03	41-38	84-59	1010	1884- 87	1884- 85	1885- 84	1887- 82	
IN BERNE	0676-03	40-40	84-57	858	1910- 73	1910- 73	1910- 73	1910- 73	
IN BLOOMINGTON IN UNIV	0784-08	39-10	86-31	825	1868-105	1868-101	1868-100	1896- 86	
IN CAMBRIDGE CITY	1229-06	39-49	85-10	950	1892- 91	1892- 91	1892- 91	1892- 91	
IN COLLEGEVILLE	1719-01	40-55	87-09	672	1907- 64	1907- 64	1907- 64	1907- 64	FROM & TO 7298
IN COLUMBUS	1747-05	39-12	85-55	621	1884- 99	1884- 99	1884- 99	1893- 90	

PRIORITY 1 STATIONS FOR HISTORICAL CLIMATOLOGY NETWORK

STATE & STATION NAME	STN-DIV	LAT-N	LONG-W	ELVFT	BEGIN YEAR - TOTAL YEARS IN DIGITAL FILE				XREF
					HISTORY	PRECIP	AVG TEMP	EXT TEMP	
IN DELPHI 3NNE	2149-02	40-37	86-40	560	1885- 98	1885- 98	1885- 98	1887- 91	
IN GOSHEN COLLEGE	3418-02	41-34	85-50	805	1914- 69	1914- 69	1914- 69	1914- 69	
IN GREENCASTLE 1E	3513-04	39-39	86-51	835	1882- 85	1882- 85	1884- 82	1895- 79	
IN GREENFIELD	3527-05	39-47	85-45	865	1883- 85	1883- 84	1883- 85	1903- 80	
IN HUNTINGTON	4176-03	40-53	85-30	802	1882- 98	1882- 95	1893- 87	1893- 87	TO 4181 05/1979
IN HUNTINGTON WATERWORKS	4181-03	40-51	85-30	725	1979- 4	1979- 4	1979- 4	1979- 4	FROM 4176 05/1979
IN LAPORTE	4837-01	41-36	86-43	810	1849- 94	1849- 93	1851- 90	1897- 86	
IN MADISON SEWAGE PLANT	5237-09	38-44	85-24	455	1854-103	1858- 94	1854- 96	1893- 90	
IN MARION 2N	5337-05	40-34	85-40	790	1885- 98	1885- 98	1885- 98	1891- 92	
IN MAUZY	5435-05	39-37	85-20	1048	1881- 68	1881- 68	1883- 66	1887- 59	TO 7646
IN MT VERNON	6001-07	37-57	87-53	415	1887- 96	1887- 96	1887- 96	1893- 90	
IN PAOLI	6705-08	38-32	86-29	640	1898- 85	1898- 85	1898- 85	1898- 85	
IN PRINCETON 1W	7125-07	38-21	87-35	482	1882-101	1882-101	1884- 99	1899- 84	
IN RENSSELAER	7298-01	40-56	87-09	650	1864- 31	1864- 28	1864- 28	1900- 21	TO & FROM 1719
IN ROCHESTER	7482-02	41-04	86-13	770	1904- 72	1904- 72	1904- 72	1904- 72	
IN ROCKVILLE	7522-04	39-46	87-14	690	1860-103	1860- 99	1862-101	1887- 96	
IN RUSHVILLE	7646-05	39-36	85-27	955	1948- 35	1948- 35	1948- 35	1948- 35	FROM 5435
IN SALEM	7755-08	38-37	86-05	800	1882- 94	1882- 91	1884- 89	1897- 83	
IN SCOTTSBURG	7875-09	38-42	85-46	550	1894- 89	1894- 89	1894- 89	1896- 87	
IN WASHINGTON	9253-07	38-40	87-11	485	1896- 87	1896- 87	1896- 87	1896- 87	
IN WHITESTOWN	9557-05	40-00	86-20	819	1896- 87	1896- 87	1896- 87	1896- 87	
IA FAIRFIELD	2789-09	41-02	91-57	740	1855-106	1857-102	1855- 98	1891- 86	
IA FAYETTE	2864-03	42-50	91-48	1010	1888- 95	1888- 95	1888- 95	1893- 90	
KS ANTHONY	0264-08	37-09	98-05	1340	1896- 87	1896- 87	1906- 77	1906- 77	
KS ATCHISON	0405-03	39-34	95-07	945	1865-114	1866-106	1865-107	1891- 92	
KS COLUMBUS 1SW	1740-09	37-10	94-51	900	1889- 94	1890- 93	1891- 92	1891- 92	
KS FORT SCOTT	2835-09	37-51	94-42	845	1843-112	1843-112	1843-106	1896- 87	
KS HAYS 1S	3527-05	38-52	99-20	2010	1867-116	1867-116	1885- 96	1888- 93	
KS HORTON	3810-03	39-40	95-31	1029	1888- 95	1888- 95	1888- 95	1888- 95	
KS INDEPENDENCE	3954-09	37-15	95-42	780	1872-111	1872-111	1872-111	1888- 95	
KS LAKIN	4464-07	37-56	101-15	2998	1889- 94	1889- 94	1889- 94	1889- 94	
KS LARNED	4530-08	38-10	99-05	1994	1860-100	1860-100	1860- 99	1890- 81	
KS LAWRENCE	4559-06	38-58	95-16	1000	1857-123	1861-120	1857-123	1894- 87	
KS LIBERAL	4695-07	37-03	100-55	2834	1892- 80	1892- 79	1892- 79	1892- 79	
KS MANHATTAN	4972-03	39-12	96-35	1065	1858-125	1858-125	1858-125	1893- 90	
KS MCPHERSON 2S	5152-05	38-20	97-40	1495	1876- 97	1876- 98	1891- 92	1891- 92	
KS MEDICINE LODGE	5173-08	37-23	98-36	1635	1891- 91	1891- 92	1895- 88	1895- 88	
KS NORTON 9SSE	5856-01	39-42	99-50	2360	1890- 89	1890- 89	1890- 89	1890- 89	
KS OBERLIN	5906-01	39-50	100-32	2610	1888- 95	1887- 96	1913- 70	1913- 70	
KS PHILLIPSBURG	6374-02	39-44	99-19	1907	1891- 92	1891- 92	1891- 91	1891- 91	
KS SEDAN	7305-09	37-07	96-10	820	1885- 98	1885- 98	1885- 98	1887- 96	
LA ALEXANDRIA	0098-05	31-19	92-28	87	1882- 99	1882- 99	1883- 98	1888- 93	
LA AMITE	0205-06	30-43	90-30	180	1882-101	1882-101	1883-100	1888- 95	
LA BASTROP	0537-03	32-47	91-54	140	1893- 61	1893- 61	1893- 61	1893- 61	
LA BATON ROUGE	0549-06	30-32	91-08	64	1822-159	1843-121	1822-138	1889- 93	

PRIORITY 1 STATIONS FOR HISTORICAL CLIMATOLOGY NETWORK

STATE & STATION NAME	STN-DIV	LAT-N	LONG-W	ELVFT	BEGIN YEAR - TOTAL YEARS IN DIGITAL FILE				XREF
					HISTORY	PRECIP	AVG TEMP	EXT TEMP	
LA CALHOUN EXP STN	1411-02	32-31	92-20	180	1888- 95	1888- 95	1888- 95	1890- 93	
LA COVINGTON 4NNW	2151-06	30-32	90-07	40	1892- 91	1892- 91	1892- 91	1893- 90	
LA ST JOSEPH EXP STN	8163-03	31-57	91-14	78	1884- 83	1884- 81	1884- 81	1907- 76	
LA WINNSBORO	9806-03	32-09	91-42	80	1890- 63	1890- 62	1890- 62	1890- 62	
ME HOULTON	3897-01	46-08	67-50	410	1829-106	1836- 99	1829-106	1892- 85	
ME MILLINOCKET	5304-01	45-39	68-42	360	1903- 80	1903- 80	1903- 80	1903- 80	
ME PRESQUE ISLE	6937-01	46-39	68-00	599	1893- 75	1909- 74	1893- 75	1893- 75	
ME RIPOGENUS DAM	7174-01	45-53	69-15	965	1915- 68	1925- 58	1925- 58	1925- 58	
ME WOODLAND	9891-02	45-09	67-24	140	1917- 66	1917- 66	1920- 63	1920- 63	
MD COLLEGE PARK	1995-04	38-59	76-59	90	1861-122	1861- 96	1894- 89	1894- 89	
MD GLEN DALE BELL STATION	3675-04	38-58	76-48	150	1921- 62	1921- 62	1921- 62	1921- 62	
MD LAUREL 3W	5111-04	39-06	76-54	400	1895- 88	1895- 88	1895- 85	1895- 85	
MD WESTMINSTER	9435-06	39-33	76-59	860	1893- 74	1893- 71	1893- 70	1895- 69	
MD WESTMINSTER POLICE BRKS	9440-06	39-33	76-58	765	1979- 4	1979- 4	1979- 4	1979- 4	TO 9440 FROM 9435
MD WOODSTOCK COLLEGE	9750-06	39-20	76-52	460	1870-113	1870-112	1870-112	1891- 91	
MA AMHERST	0120-02	42-23	72-32	150	1835-148	1835-148	1836-147	1893- 90	
MA BLUE HILL OBSERVATORY	0736-02	42-13	71-07	629	1831-152	1885- 98	1831-149	1885- 98	
MA CHESTNUT HILL	1447-02	42-20	71-09	120	1873-110	1873-110	1884- 99	1884- 99	
MA FRAMINGHAM	2975-02	42-17	71-25	170	1843-107	1843-104	1884- 99	1884- 99	
MA LAWRENCE	4105-02	42-42	71-10	57	1856-124	1856-124	1856-124	1885- 98	
MA NEW BEDFORD	5246-03	41-38	70-56	70	1812-171	1813-170	1812-170	1885- 97	
MA PLYMOUTH	6486-03	41-57	70-40	90	1886- 97	1886- 97	1886- 97	1903- 79	
MA TAUNTON	8367-03	41-54	71-04	20	1871-112	1874-109	1871-112	1884- 99	
MI CHATHAM EXP FARM	1484-02	46-21	86-56	875	1900- 83	1900- 83	1900- 83	1900- 83	
MI FAYETTE 3SW	2737-02	45-41	86-42	765	1920- 63	1920- 63	1920- 63	1920- 63	
MI ISHPEMING	4127-01	46-29	87-39	1436	1898- 85	1898- 85	1898- 85	1898- 85	
MI MUNISING	5690-02	46-24	86-39	620	1896- 87	1896- 86	1896- 87	1896- 87	
MN ADA	0018-01	47-18	96-31	906	1892- 80	1892- 79	1892- 80	1893- 79	
MN DETROIT LAKES INNE	2142-01	46-50	95-51	1375	1895- 88	1895- 88	1895- 88	1895- 88	
MN FOSSTON	2916-01	47-34	95-45	1310	1909- 74	1909- 74	1909- 74	1909- 74	
MN ITASCA U OF MN	4106-01	47-13	95-12	1490	1911- 72	1911- 72	1911- 72	1911- 72	
MN LEECH LAKE DAM	4652-02	47-15	94-13	1302	1887- 96	1887- 96	1887- 96	1897- 86	
MN PARK RAPIDS	6360-02	46-55	95-04	1434	1885- 98	1885- 93	1885- 93	1893- 90	
MN WALKER AH-GWAH-CHING	8618-01	47-04	94-35	1407	1907- 76	1907- 76	1907- 76	1907- 76	
MN WINNIBIGOSHISH DAM	9059-02	47-26	94-03	1315	1887- 96	1887- 96	1887- 96	1897- 86	
MS ABERDEEN	0021-06	33-50	88-33	207	1882-101	1882-101	1882-101	1889- 94	
MS BATESVILLE 2SW	0488-02	34-18	89-59	215	1882-101	1882-101	1882-101	1889- 94	
MS BAY ST LOUIS	0519-10	30-18	89-20	20	1833- 93	1890- 89	1833- 92	1890- 89	
MS BILOXI(CITY)	0792-10	30-24	88-54	15	1887- 92	1887- 92	1887- 92	1893- 90	
MS BOONEVILLE	0955-03	34-40	88-34	490	1889- 91	1889- 92	1889- 92	1889- 92	
MS BROOKHAVEN CITY	1094-07	31-33	90-27	425	1868-115	1869-111	1868-107	1889- 94	
MS CANTON	1389-05	32-36	90-02	228	1882-101	1882-101	1890- 93	1890- 93	
MS CLARKSDALE	1707-01	34-12	90-34	173	1892- 81	1892- 81	1892- 81	1892- 81	
MS COLUMBIA	1865-08	31-15	89-50	155	1903- 80	1903- 80	1903- 71	1903- 71	
MS COLUMBUS	1870-06	33-28	88-22	205	1855-125	1855-125	1855-120	1890- 92	TO 1880

PRIORITY 1 STATIONS FOR HISTORICAL CLIMATOLOGY NETWORK

STATE & STATION NAME	STN-DIV	LAT-N	LONG-W	ELVFT	BEGIN YEAR - TOTAL YEARS IN DIGITAL FILE				XREF
					HISTORY	PRECIP	AVG TEMP	EXT TEMP	
MS COLUMBUS LUXAPALLILA	1880-06	33-31	88-24	142	1981- 2	1981- 2	1981- 2	1981- 2	FROM 1870
MS CRYSTAL SPRINGS	2094-07	31-59	90-26	468	1892- 63	1892- 63	1892- 63	1892- 63	TO 2099
MS CRYSTAL SPRINGS 4NNE	2099-07	32-02	90-19	374	1954- 29	1954- 29	1954- 29	1954- 29	FROM 2094
MS FOREST	3107-05	32-19	89-29	480	1933- 50	1933- 50	1933- 50	1933- 50	FROM 4824
MS GREENVILLE	3605-04	33-23	91-01	132	1887- 96	1887- 96	1887- 96	1889- 94	
MS HATTIESBURG	3887-09	31-18	89-17	220	1890- 93	1890- 92	1890- 92	1890- 92	CNTY PERRY PRE 1910
MS HERNANDO	3975-02	34-50	90-00	363	1882-100	1882-100	1882-100	1889- 93	
MS HOLLY SPRINGS 2N	4168-02	34-47	89-26	495	1867- 86	1867- 84	1867- 81	1889- 72	TO 4173
MS HOLLY SPRINGS 4N	4173-02	34-49	89-26	483	1931- 52	1948- 26	1961- 22	1961- 22	FROM 4168 IN 1962
MS KOSCIUSKO	4776-05	33-03	89-36	420	1889- 94	1889- 94	1889- 94	1889- 94	
MS LAKE	4824-05	32-21	89-20	471	1882- 52	1882- 52	1882- 52	1889- 45	TO 3107
MS LAUREL	4939-09	31-41	89-07	225	1902- 81	1902- 81	1902- 81	1902- 81	
MS LOUISVILLE	5247-06	33-08	89-04	581	1888- 95	1888- 95	1888- 95	1889- 94	
MS MCNEILL	5687-02	30-40	89-38	230	1903- 17	1903- 17	1903- 17	1903- 17	TO 7128
MS MONTICELLO	5987-08	31-33	90-06	220	1907- 76	1907- 76	1907- 76	1907- 76	
MS MOORHEAD	6009-04	33-27	90-31	117	1913- 70	1913- 70	1913- 70	1913- 70	
MS NATCHEZ	6177-07	31-33	91-23	195	1799-135	1799-125	1799-132	1889- 94	
MS PONTOTOC 5E	7106-03	34-16	88-55	440	1889- 93	1889- 93	1889- 84	1889- 84	TO 7111
MS PONTOTOC EXP STN	7111-03	34-09	89-00	405	1953- 30	1953- 30	1953- 30	1953- 30	FROM 7106
MS POPLARVILLE EXP STN	7128-10	30-51	89-33	313	1919- 64	1919- 64	1919- 64	1919- 64	FROM 5687
MS PORT GIBSON	7132-07	31-58	91-00	120	1855-101	1855-101	1855-101	1889- 94	
MS ROSEDALE	7582-01	33-51	91-01	150	1894- 79	1894- 79	1894- 71	1894- 71	
MS STATE UNIVERSITY	8374-06	33-28	88-48	280	1882-101	1884- 99	1886- 97	1889- 94	
MS OXFORD UNIVERSITY	9079-02	34-23	89-32	380	1854-102	1855-101	1854-102	1889- 94	
MS WATER VALLEY 1NNE	9400-02	34-10	89-38	380	1886- 97	1886- 97	1889- 94	1889- 92	
MS WOODVILLE	9793-07	31-06	91-14	400	1893- 90	1893- 90	1893- 90	1893- 90	
MS YAZOO CITY	9850-04	32-52	90-24	116	1886- 75	1886- 74	1893- 67	1893- 67	TO 9860
MS YAZOO CITY 5NNE	9860-04	32-54	90-23	107	1959- 24	1960- 23	1960- 23	1960- 23	FROM 9850
MO CLINTON	1711-03	38-22	93-46	790	1906- 77	1906- 77	1906- 77	1906- 77	
MT BIG TIMBER	0780-05	45-50	109-57	4100	1894- 83	1894- 83	1894- 83	1894- 83	
MT BOZEMAN MONTANA ST UNIV	1044-02	45-40	111-03	4856	1868-109	1868-108	1868-109	1892- 90	
MT ENNIS	2793-02	45-21	111-43	4953	1917- 66	1918- 65	1918- 65	1918- 65	
MT HEBGEN DAM	4038-02	44-52	111-20	6489	1904- 79	1904- 79	1904- 79	1904- 79	
MT LIVINGSTON	5076-05	45-40	110-34	4485	1895- 83	1895- 83	1895- 83	1895- 83	TO 5080 45-30N,110-34W
MT NORRIS MADISON POWER HOUSE	6157-02	45-29	111-38	4745	1907- 76	1907- 76	1907- 76	1907- 76	
MT VIRGINIA CITY	8597-02	45-18	111-57	5758	1871- 94	1871- 94	1888- 84	1891- 81	
NE ALLIANCE	0130-01	42-06	102-52	3980	1889- 93	1889- 93	1889- 84	1900- 79	
NE ASHLAND 3NE	0375-06	41-04	96-20	1067	1883-100	1883-100	1888- 95	1893- 90	CNTY SARPY 2/1943-10/194
NE BEATRICE #1	0620-09	40-16	96-45	1235	1891- 92	1891- 92	1891- 92	1893- 90	
NE CRETE	2020-09	40-37	96-57	1435	1880-103	1880-103	1882-101	1893- 90	
NE CURTIS	2100-07	40-38	100-31	2570	1893- 91	1893- 90	1893- 90	1893- 90	
NE DAVID CITY	2205-06	41-15	97-08	1615	1888- 95	1888- 95	1888- 95	1897- 86	
NE FAIRBURY 2SSE	2820-09	40-07	97-10	1340	1875-108	1875-108	1892- 91	1895- 88	
NE FAIRMONT	2840-09	40-38	97-35	1640	1894- 89	1894- 89	1894- 89	1896- 87	
NE GENEVA	3175-09	40-32	97-36	1630	1890- 93	1890- 93	1893- 90	1893- 90	

PRIORITY 1 STATIONS FOR HISTORICAL CLIMATOLOGY NETWORK

STATE & STATION NAME	STN-DIV	LAT-N	LONG-W	ELVFT	BEGIN YEAR - TOTAL YEARS IN DIGITAL FILE				XREF
					HISTORY	PRECIP	AVG TEMP	EXT TEMP	
NE HASTINGS	3660-08	40-35	98-21	1925	1880- 95	1883- 94	1890- 91	1907- 76	
NE HEBRON	3735-09	40-10	97-35	1480	1886- 97	1886- 97	1886- 97	1893- 90	
NE SEWARD	7715-06	40-54	97-05	1480	1885- 94	1885- 94	1885- 90	1900- 79	
NE SYRACUSE	8395-09	40-39	96-11	1100	1871-109	1871-109	1871-109	1894- 89	
NE WEEPING WATER	9090-06	40-52	96-09	1100	1878-105	1878-105	1882- 95	1907- 76	
NE YORK	9510-06	40-52	97-36	1610	1884- 97	1884- 97	1892- 91	1901- 82	
NM ELEPHANT BUTTE DAM	2848-05	33-09	107-11	4576	1908- 75	1908- 75	1908- 75	1908- 75	
NM GAGE 4ESE	3368-08	32-13	108-01	4410	1899- 83	1899- 82	1906- 75	1906- 75	
NM JORNADA EXPERIMENTAL RANGE	4426-08	32-37	106-44	4266	1914- 69	1914- 69	1914- 69	1914- 69	
NM OROGRANDE	6435-08	32-23	106-06	4179	1904- 77	1904- 77	1904- 66	1904- 66	
NM TULAROSA	9165-08	33-05	106-03	4430	1908- 75	1908- 74	1908- 70	1908- 70	
NY ADDISON	0023-01	42-06	77-13	980	1890- 87	1890- 86	1890- 86	1895- 81	SEE 9571 WOODHULL
NY ALBANY WSFOAP	0042-05	42-45	73-48	275	1930- 53	1938- 44	1938- 44	1938- 44	SEE 0047
NY ALBANY	0047-05	42-39	73-45	0	1795-167	1826-140	1795-147	1874- 94	SEE 0042
NY ALFRED	0085-01	42-15	77-47	1780	1852-104	1852- 91	1852- 86	1893- 81	
NY ALLEGANY STATE PARK	0093-01	42-06	78-45	1500	1924- 59	1924- 58	1924- 58	1924- 58	
NY ANGELICA	0183-01	42-18	78-01	1420	1854-129	1856-101	1854-103	1893- 89	
NY AUBURN 2NE	0321-10	42-56	76-32	765	1827-118	1827-113	1827-117	1897- 82	
NY BAINBRIDGE	0360-02	42-18	75-29	1015	1907- 74	1908- 73	1936- 45	1936- 45	
NY BATAVIA	0443-09	43-00	78-11	900	1912- 71	1890- 54	1932- 50	1932- 50	
NY BINGHAMTON WSO AP	0687-02	42-13	75-59	1600	1951- 32	1951- 31	1951- 31	1951- 31	SEE 0691
NY BINGHAMTON	0691-02	42-06	75-55	858	1890- 79	1890- 79	1890- 79	1890- 79	SEE 0687
NY BRIDGEHAMPTON	0889-04	40-57	72-18	60	1930- 53	1930- 52	1930- 52	1930- 52	
NY BROCKPORT 2-NW	0937-09	43-15	77-58	413	1890- 85	1890- 83	1890- 83	1893- 80	
NY BUFFALO AIRPORT	1012-09	42-56	78-44	705	1831-132	1832-132	1831-134	1873-109	
NY CANTON 4SE	1185-08	44-34	75-07	440	1855-125	1855-112	1854-122	1893- 85	
NY CARMEL 1SW	1207-05	41-25	73-42	490	1888- 95	1888- 94	1888- 93	1893- 88	
NY CHASM FALLS	1387-08	44-45	74-13	1060	1926- 56	1926- 55	1927- 51	1927- 51	
NY CHAZY	1401-07	44-53	73-26	170	1891- 85	1891- 85	1899- 83	1902- 80	
NY COOPERSTOWN	1752-02	42-42	74-55	1200	1854-129	1854-128	1854-128	1893- 89	
NY CORTLAND	1799-02	42-36	76-11	1129	1829-126	1850-104	1892- 90	1892- 90	
NY DANMORA	1966-07	44-43	73-43	1340	1906- 77	1906- 76	1906- 76	1906- 76	
NY DANSVILLE	1974-10	42-34	77-42	685	1917- 64	1917- 63	1918- 61	1918- 61	
NY ELMIRA 2SE	2610-01	42-05	76-47	840	1851-105	1851-104	1852- 94	1894- 88	
NY FREDONIA	3033-09	42-27	79-18	760	1830- 98	1830- 89	1829- 91	1914- 68	
NY GENEVA EXP STATION	3177-10	42-53	77-00	590	1850-129	1850-106	1852- 94	1892- 58	MOVED TO 3184
NY GENEVA RESR FM	3184-10	42-53	77-02	718	1968- 15	1968- 14	1968- 14	1968- 14	MOVED FROM 3177
NY GLENHAM	3259-05	41-31	73-56	275	1932- 51	1932- 50	1932- 50	1932- 50	
NY GLOVERSVILLE	3319-06	43-03	74-20	870	1892- 91	1892- 90	1892- 90	1893- 89	
NY GREENFIELD CENTER	3452-05	43-07	73-50	610	1903- 53	1903- 53	1903- 53	1903- 53	MOVED TO 7484
NY HEMLOCK	3773-10	42-47	77-37	902	1898- 85	1898- 84	1898- 84	1898- 84	
NY INDIAN LAKE 2SW	4102-03	43-45	74-17	1660	1899- 84	1899- 83	1899- 83	1899- 83	
NY ITHACA CORNELL UN	4174-10	42-27	76-27	960	1918- 65	1918- 63	1918- 63	1918- 63	SEE 4178
NY ITHACA	4178-10	42-27	76-29	929	1827- 97	1828- 87	1827- 92	1893- 51	SEE 4174
NY LAKE PLACID 2S	4555-03	44-15	73-59	1940	1897- 78	1897- 77	1897- 77	1897- 77	

PRIORITY 1 STATIONS FOR HISTORICAL CLIMATOLOGY NETWORK

STATE & STATION NAME	STN-DIV	LAT-N	LONG-W	ELVFT	BEGIN YEAR - TOTAL YEARS IN DIGITAL FILE				XREF
					HISTORY	PRECIP	AVG TEMP	EXT TEMP	
NY LAWRENCEVILLE	4647-08	44-45	74-39	500	1931- 52	1931- 51	1931- 51	1931- 51	
NY LITTLE FALLS CITY RESER	4791-06	43-04	74-52	900	1897- 86	1897- 85	1897- 85	1897- 85	
NY LITTLE FALLS MILL ST	4796-06	43-02	74-52	360	1897- 86	1897- 72	1897- 46	1897- 46	
NY LOCKPORT 2NE	4844-09	43-11	78-39	520	1870- 99	1870- 98	1848-101	1893- 89	
NY LOWVILLE	4912-03	43-48	75-29	860	1827-130	1827-124	1827-124	1892- 90	
NY MOHONK LAKE	5426-05	41-46	74-09	1245	1896- 87	1896- 86	1896- 86	1896- 86	
NY MORRISVILLE 3S	5512-02	42-51	75-39	1390	1911- 71	1911- 67	1911- 67	1911- 67	
NY NEW YORK CENTRAL PARK	5801-04	40-47	73-58	130	1821-162	1836-145	1821-161	1944- 38	
NY NORWICH	6085-02	42-32	75-32	1020	1906- 77	1906- 76	1894- 74	1906- 74	
NY OGDENBURG 4NE	6164-08	44-44	75-26	280	1838-104	1838-102	1838- 93	1893- 89	
NY ONEONTA 1S	6224-02	42-27	75-04	1080	1894- 61	1894- 61	1894- 61	1894- 61	
NY ONEONTA	6225-02	42-27	75-04	1150	1954- 19	1954- 5	1954- 5	1954- 5	MOVED TO 6225
NY ONEONTA	6229-02	42-27	75-00	1163	1940- 32	1948- 22	1948- 22	1948- 22	FROM 6224, SEE 6229&6232
NY ONEONTA STATE UNIV	6232-02	42-28	75-04	1400	1971- 12	1971- 11	1971- 11	1971- 11	SEE 6225 & 6232
NY OSWEGO	6314-09	43-28	76-30	350	1844-139	1844-135	1844-135	1889- 93	SEE 6225 & 6229
NY PENN YAN	6510-10	42-40	77-04	720	1829-134	1829-130	1829-106	1897- 73	
NY PLATTSBURGH AFB	6659-07	44-39	73-28	165	1839-102	1840-100	1839- 93	1895- 53	
NY PORT JERVIS	6774-02	41-23	74-41	470	1880-100	1880- 98	1880- 98	1893- 89	
NY POUGHKEEPSIE	6817-05	41-41	73-56	103	1829- 76	1830- 70	1828- 74	1893- 52	SEE 6820
NY POUGHKEEPSIE FAA AP	6820-05	41-38	73-53	155	1932- 51	1948- 34	1948- 34	1948- 34	SEE 6817
NY ROCHESTER AIRPORT	7167-09	43-07	77-40	547	1829-154	1829-152	1830-151	1872-110	
NY SARATOGA SPRINGS 4SW	7484-05	43-02	73-49	310	1955- 28	1955- 27	1955- 27	1955- 27	MOVED FROM 3452
NY SCARSDALE	7497-04	40-59	73-48	199	1904- 79	1904- 78	1904- 78	1904- 78	
NY SCHENECTADY	7513-05	42-50	73-55	220	1898- 70	1829- 59	1829- 60	1898- 43	
NY SETAUKET STRONG	7633-04	40-58	73-06	40	1885- 98	1885- 97	1885- 97	1885- 97	
NY SOUTH WALES EMERY PARK	8058-09	42-43	78-36	1090	1931- 52	1931- 51	1931- 50	1931- 51	
NY STILLWATER RESERVOIR	8248-03	43-53	75-02	1690	1921- 62	1921- 61	1927- 55	1927- 55	
NY SYRACUSE AIRPORT	8383-10	43-07	76-07	410	1902- 81	1843- 85	1843- 88	1902- 80	
NY TUPPER LAKE SUNMOUNT	8631-03	44-14	74-26	1680	1899- 75	1893- 73	1899- 72	1899- 72	
NY UTICA HARBOR PT	8733-06	43-07	75-14	410	1826- 91	1826- 79	1826- 59	1893- 24	SEE 8739
NY UTICA 3W	8739-06	43-06	75-17	500	1948- 35	1948- 32	1948- 33	1948- 33	SEE 8733
NY WALDEN 2NE	8902-05	41-34	74-10	400	1922- 53	1922- 53	1925- 35	1925- 35	SEE 8906
NY WALDEN	8906-05	41-33	74-10	380	1972- 11	1972- 10	1973- 9	1973- 9	SEE 8902
NY WANAKENA RANGER SCHOOL	8944-03	44-09	74-54	1510	1910- 73	1910- 72	1910- 72	1910- 72	
NY WATERTOWN	9000-09	43-58	75-52	497	1856- 94	1856- 93	1856- 93	1893- 89	
NY WEST POINT	9292-05	41-23	73-58	320	1824-155	1836-137	1824-153	1890- 87	
NC MONROE	5771-05	34-58	80-30	586	1888- 89	1888- 89	1888- 89	1896- 87	
ND DICKINSON EXP STN	2188-07	46-53	102-48	2460	1891- 92	1891- 92	1891- 92	1893- 90	
ND DUNN CENTER 2SW	2365-04	47-21	102-39	2232	1918- 65	1918- 65	1919- 64	1919- 64	
ND HETTINGER	4178-07	45-59	102-39	2680	1905- 78	1907- 76	1907- 76	1907- 76	
ND MOTT	6155-07	46-22	102-18	2530	1907- 76	1907- 76	1907- 76	1907- 76	
ND NEW ENGLAND	6315-07	46-33	102-52	2621	1888- 93	1888- 93	1888- 93	1894- 89	
ND RICHARDTON ABBEY	7530-07	46-53	102-19	2470	1916- 67	1916- 67	1916- 67	1916- 67	
OH CHIPPEWA LAKE	1541-03	41-04	81-54	1060	1857- 95	1857- 95	1857- 90	1895- 88	
OH COSHOCTON SEWAGE PLANT	1890-06	40-15	81-52	760	1908- 75	1908- 75	1915- 68	1915- 68	

PRIORITY 1 STATIONS FOR HISTORICAL CLIMATOLOGY NETWORK

STATE & STATION NAME	STN-DIV	LAT-N	LONG-W	ELVFT	BEGIN YEAR - TOTAL YEARS IN DIGITAL FILE				XREF
					HISTORY	PRECIP	AVG TEMP	EXT TEMP	
OH MILLERSBURG 1W	5297-06	40-33	81-56	900	1916- 67	1916- 67	1919- 64	1919- 64	
OH MILLPORT 2NW	5315-07	40-43	80-54	1145	1892- 91	1892- 91	1893- 90	1893- 90	
OH NORWALK SEWAGE PLANT	6118-02	41-16	82-37	670	1861-101	1861-100	1861-100	1894- 89	
OH OBERLIN	6196-02	41-16	82-13	816	1854-127	1854-111	1854-111	1891- 92	
OH WOOSTER EXP STN	9312-06	40-47	81-55	1020	1864-118	1868-108	1864-117	1891- 92	
OK ADA	0017-08	34-47	96-41	1015	1907- 76	1907- 76	1907- 76	1907- 76	
OK ALTUS IRRIGATION RES STN	0179-07	34-35	99-20	1380	1903- 72	1913- 70	1903- 71	1913- 70	CNTY GREER PRE 1905
OK ANTLERS	0256-09	34-15	95-38	520	1917- 66	1917- 66	1918- 65	1918- 65	
OK ARDMORE	0292-08	34-12	97-09	860	1901- 82	1901- 82	1901- 82	1901- 82	
OK BARTLESVILLE 2W	0548-03	36-45	96-00	715	1907- 76	1907- 76	1907- 76	1907- 76	CNTY WASHINGTON PRE 1936
OK BEAVER	0593-01	36-48	100-32	2475	1896- 87	1896- 87	1896- 87	1896- 87	
OK BOISE CITY 2E	0908-01	36-44	102-29	4145	1908- 75	1925- 58	1908- 75	1908- 75	
OK BUFFALO	1243-01	36-50	99-37	1795	1907- 73	1907- 73	1907- 73	1907- 73	
OK CARNEGIE 2ENE	1504-07	35-07	98-34	1290	1914- 69	1914- 69	1914- 69	1914- 69	
OK CHEROKEE POWER PLANT	1724-02	36-46	98-21	1180	1915- 68	1915- 68	1915- 68	1915- 68	
OK CLAREMORE 2ENE	1828-03	36-19	95-35	588	1900- 73	1900- 72	1900- 72	1900- 72	
OK DURANT-USDA	2678-08	34-01	96-23	660	1901- 82	1901- 82	1901- 82	1901- 82	
OK ENID	2912-02	36-25	97-52	1245	1894- 86	1894- 86	1894- 86	1894- 86	
OK ERICK 4E	2944-04	35-12	99-48	1985	1904- 79	1904- 79	1904- 79	1904- 79	
OK GEARY	3497-04	35-38	98-19	1595	1911- 72	1911- 72	1911- 72	1911- 72	
OK GOODWELL RESEARCH STATION	3628-01	36-36	101-37	3310	1910- 73	1910- 73	1910- 73	1910- 73	
OK GUTHRIE	3821-05	35-53	97-27	1030	1889- 94	1892- 91	1889- 94	1892- 91	
OK HAMMON INNE	3871-04	35-38	99-22	1775	1913- 70	1913- 70	1913- 70	1913- 70	
OK HENNESSEY 2SE	4055-05	36-05	97-52	1150	1895- 88	1895- 88	1895- 88	1895- 88	
OK HOBART FAA AP	4204-07	35-00	99-03	1552	1901- 82	1903- 80	1903- 80	1903- 80	
OK HOLDENVILLE	4235-06	35-05	96-24	860	1900- 83	1901- 82	1901- 82	1901- 82	
OK HOOKER	4298-01	36-52	101-13	2995	1906- 77	1906- 77	1906- 77	1906- 77	
OK HUGO	4384-09	34-00	95-31	570	1913- 70	1913- 70	1913- 70	1913- 70	
OK JEFFERSON	4573-02	36-43	97-48	1045	1894- 89	1894- 89	1894- 89	1894- 89	
OK KENTON	4766-01	36-54	102-58	4350	1900- 83	1900- 82	1900- 82	1900- 82	
OK KINGFISHER 2SE	4861-05	35-51	97-54	1100	1897- 86	1897- 86	1897- 86	1897- 86	
OK LAWTON	5063-07	34-37	98-27	1150	1912- 71	1912- 71	1912- 71	1912- 71	
OK MANGUM RESEARCH STATION	5509-07	34-50	99-26	1520	1892- 91	1892- 91	1892- 91	1892- 91	
OK MEEKER 4W	5779-05	35-30	96-59	925	1894- 89	1894- 89	1894- 89	1894- 89	
OK MIAMI	5855-03	36-53	94-53	805	1917- 66	1917- 66	1917- 66	1917- 66	
OK MUSKOGEE	6130-06	35-46	95-20	583	1899- 84	1899- 84	1899- 84	1899- 84	
OK MUTUAL	6139-02	36-14	99-10	1865	1907- 76	1907- 76	1907- 76	1907- 76	
OK NEWKIRK	6278-02	36-53	97-03	1150	1897- 86	1897- 86	1897- 86	1897- 86	
OK OKEENE	6629-04	36-07	98-19	1200	1903- 80	1903- 80	1903- 80	1903- 80	
OK OKEMAH	6638-05	35-26	96-18	935	1912- 71	1912- 71	1912- 71	1912- 71	
OK OKMULGEE WATERWORKS	6670-06	35-37	96-01	647	1903- 80	1903- 80	1903- 80	1903- 80	
OK PAULS VALLEY 3WSW	6926-08	34-44	97-16	950	1892- 86	1892- 85	1892- 85	1892- 85	
OK PAWHUSKA	6935-03	36-40	96-21	835	1897- 86	1898- 84	1898- 84	1898- 84	
OK PERRY	7012-02	36-17	97-18	1025	1898- 85	1898- 85	1898- 85	1898- 85	
OK POTEAU	7246-09	35-03	94-38	670	1917- 66	1917- 66	1917- 66	1917- 66	

PRIORITY 1 STATIONS FOR HISTORICAL CLIMATOLOGY NETWORK

STATE & STATION NAME	STN-DIV	LAT-N	LONG-W	ELVFT	BEGIN YEAR - TOTAL YEARS IN DIGITAL FILE				XREF
					HISTORY	PRECIP	AVG TEMP	EXT TEMP	
OK STILLWATER 2W	8501-05	36-07	97-05	895	1893- 90	1893- 90	1893- 90	1893- 90	
OK TAHLEQUAH	8677-06	35-56	94-58	850	1894- 82	1894- 82	1894- 81	1894- 81	
OK WAURIKA	9395-08	34-10	98-00	875	1910- 73	1910- 73	1910- 73	1910- 73	
OK WEATHERFORD	9422-04	35-32	98-42	1670	1901- 82	1901- 82	1901- 82	1901- 82	
OK WEBBERS FALLS	9445-06	35-31	95-08	480	1898- 86	1900- 83	1900- 83	1900- 83	
OR ASHLAND	0304-03	42-13	122-43	1750	1879-104	1888- 95	1889- 94	1889- 94	
OR GRANTS PASS	3445-03	42-26	123-19	925	1889- 94	1889- 94	1889- 94	1889- 94	
OR HEPPNER	3827-06	45-22	119-33	1885	1889- 94	1889- 94	1889- 94	1889- 94	
OR KLAMATH FALLS 2SSW	4506-07	42-12	121-47	4098	1884- 94	1884- 94	1884- 94	1889- 89	
OR MILTON-FREEWATER	5593-06	45-57	118-25	970	1914- 69	1914- 69	1914- 69	1914- 69	
OR PILOT ROCK 1SE	6634-06	45-29	118-49	1720	1908- 75	1908- 75	1909- 74	1909- 74	
OR PROSPECT 2SW	6907-03	42-44	122-31	2482	1905- 78	1905- 78	1905- 77	1905- 77	
OR RIDDLE	7169-03	42-57	123-21	680	1891- 83	1891- 83	1891- 82	1913- 70	
OR UNION EXP STN	8746-08	45-13	117-53	2765	1911- 72	1911- 72	1911- 72	1911- 72	
OR WALLOWA	8997-08	45-34	117-32	2923	1903- 80	1903- 80	1903- 80	1903- 80	
SC AIKEN 4NE	0074-05	33-36	81-41	400	1854-122	1854-122	1856-120	1893- 83	
SC ANDERSON	0165-02	34-32	82-40	800	1884- 95	1884- 95	1884- 86	1901- 82	
SC BEAUFORT 7SW	0559-07	32-23	80-46	20	1862-103	1862-103	1862-100	1889- 92	
SC BLACKVILLE 3W	0764-07	33-22	81-19	324	1884- 99	1884- 99	1884- 99	1888- 94	
SC CALHOUN FALLS	1277-05	34-05	82-35	530	1892- 91	1892- 91	1917- 66	1917- 66	
SC CAMDEN 3W	1310-03	34-15	80-39	140	1849-134	1849-134	1854- 81	1906- 77	
SC CHARLESTON	1549-07	32-47	79-56	10	1738-200	1738-191	1738-181	1871-112	
SC CHERAW	1588-04	34-42	79-53	140	1882-101	1882-101	1882-101	1888- 95	
SC CLEMSON UNIVERSITY	1770-02	34-41	82-49	819	1892- 91	1892- 91	1896- 87	1896- 83	CNTY OCONEE PRIOR 3/68
SC COLUMBIA U OF SC	1944-06	33-59	81-01	242	1872-111	1872-110	1872-108	1887- 96	
SC CONWAY	1997-04	33-50	79-03	20	1888- 95	1888- 95	1888- 88	1890- 85	
SC DARLINGTON 1N	2260-04	34-19	79-53	160	1893- 90	1895- 88	1893- 85	1901- 82	
SC GEORGETOWN 2E	3468-04	33-21	79-15	10	1893- 87	1893- 86	1893- 86	1893- 86	
SC GREENWOOD 3NE	3754-05	34-13	82-07	615	1884- 99	1884- 99	1884- 99	1888- 94	
SC KERSHAW	4690-03	34-33	80-35	530	1916- 67	1916- 67	1916- 67	1916- 67	CNTY KERSHAW 1953-5,57-7
SC KINGSTREE 1SE	4753-04	33-39	79-49	58	1882-101	1882-101	1882-101	1888- 93	
SC LAURENS	5017-02	34-30	82-02	589	1901- 73	1901- 73	1901- 73	1901- 73	
SC LITTLE MOUNTAIN	5200-05	34-12	81-25	711	1893- 90	1893- 90	1893- 90	1894- 89	
SC NEWBERRY	6209-05	34-17	81-37	476	1887- 96	1887- 96	1887- 96	1893- 90	
SC SALUDA	7631-05	33-59	81-46	480	1902- 81	1902- 81	1902- 81	1902- 81	
SC SANTUCK	7722-02	34-38	81-31	520	1893- 90	1893- 90	1893- 90	1895- 88	
SC SUMMERVILLE	8426-07	33-00	80-11	60	1898- 85	1898- 85	1898- 85	1898- 85	
SC WALHALLA	8887-02	34-45	83-05	980	1889- 85	1889- 85	1889- 83	1896- 79	
SC WINNSBORO	9327-03	34-22	81-05	560	1887- 93	1887- 93	1887- 91	1888- 89	
SC WINTHROP COLLEGE	9350-03	34-56	81-02	690	1899- 84	1900- 83	1900- 83	1900- 83	
SC YEMASSEE	9469-07	32-41	80-51	25	1882- 94	1882- 94	1882- 94	1895- 88	CNTY HAMPTON 1919-1976
SD COTTONWOOD 2E	1972-05	43-58	101-52	2414	1909- 74	1909- 74	1909- 74	1909- 74	
SD DUPREE	2429-01	45-03	101-36	2365	1922- 61	1922- 61	1922- 61	1922- 61	
SD HOPEWELL 1SE	3987-06	44-30	100-52	1922	1909- 67	1909- 67	1909- 66	1909- 66	
SD MURDO	5891-06	43-53	100-43	2300	1907- 76	1907- 76	1908- 75	1908- 75	

PRIORITY 1 STATIONS FOR HISTORICAL CLIMATOLOGY NETWORK

STATE & STATION NAME	STN-DIV	LAT-N	LONG-W	ELVFT	BEGIN YEAR - TOTAL YEARS IN DIGITAL FILE				XREF
					HISTORY	PRECIP	AVG TEMP	EXT TEMP	
SD PIERRE FAA AP	6597-06	44-23	100-17	1726	1866-117	1866-116	1866-116	1891- 92	
SD RAPID CITY	6947-05	44-05	103-16	3370	1888- 95	1888- 95	1888- 95	1888- 95	
TN LEWISBURG EXPERIMENT STN	5187-03	35-27	86-48	787	1888- 95	1888- 89	1888- 89	1899- 84	
TN MURFREESBORO 5N	6371-03	35-55	86-22	550	1882-101	1882-101	1883-100	1894- 89	
TN TULLAHOMA	9155-02	35-21	86-12	1048	1889- 91	1889- 91	1889- 91	1896- 87	
TX ALICE	0144-09	27-44	98-04	201	1892- 84	1893- 78	1893- 77	1893- 77	CNTY NUECES PRE 1911
TX BEEVILLE 5NE	0639-07	28-27	97-42	255	1895- 88	1895- 88	1895- 88	1896- 87	
TX CORPUS CHRISTI WSO AP	2015-07	27-46	97-30	41	1887- 96	1887- 96	1887- 96	1887- 96	
TX DILLEY	2458-09	28-40	99-10	582	1910- 73	1910- 73	1916- 67	1916- 67	
TX EL PASO WSO AP	2797-05	31-48	106-24	3918	1877-106	1878-105	1878-105	1878-105	
TX ENCINAL	2906-09	28-02	99-22	588	1907- 76	1907- 76	1908- 75	1907- 76	
TX FALFURRIAS	3063-09	27-14	98-08	120	1907- 76	1907- 76	1907- 76	1907- 76	
TX FLATONIA	3183-07	29-40	97-07	520	1908- 75	1908- 75	1908- 75	1908- 75	
TX HALLETTSVILLE 3S	3873-07	29-24	96-57	261	1891- 92	1891- 91	1891- 91	1893- 89	
TX LULING	5429-07	29-40	97-39	398	1882-101	1882-101	1882-101	1888- 94	
TX NEW BRAUNFELS	6276-07	29-44	98-07	710	1853-102	1854-101	1854-101	1891- 91	
TX SAN ANTONIO WSFO	7945-07	29-32	98-28	788	1846-121	1849-117	1846-119	1885- 98	
UT ALTON	0086-04	37-26	112-29	7040	1915- 68	1915- 68	1915- 68	1915- 68	
UT CORINNE	1731-03	41-35	112-08	4240	1870-113	1870-113	1870-113	1897- 86	
UT LAKETOWN	4856-05	41-49	111-19	5980	1900- 83	1900- 83	1900- 83	1900- 83	FROM MOFFAT RANCH
UT LOGAN USU	5186-03	41-45	111-48	4790	1890- 93	1890- 93	1890- 93	1893- 90	
UT MORGAN	5826-05	41-02	111-41	5060	1903- 80	1903- 80	1903- 80	1903- 80	
UT OGDEN PIONEER P H	6404-03	41-15	111-57	4350	1870-113	1870-113	1870-113	1902- 81	
UT RIVERDALE	7318-03	41-09	112-00	4400	1914- 69	1914- 69	1914- 69	1914- 69	
UT WOODRUFF	9595-05	41-32	111-09	6315	1897- 86	1897- 84	1897- 83	1897- 83	
WA FORKS 1E	2914-01	47-57	124-22	350	1907- 76	1908- 75	1908- 74	1908- 74	
WA OLGA 3E	6096-00	48-37	122-48	80	1890- 93	1890- 93	1890- 93	1891- 92	
WY BORDER 3N	0915-03	42-15	111-02	6120	1902- 81	1902- 81	1902- 81	1902- 81	CNTY UINTA PRE 1920
WY EVANSTON 1E	3100-03	41-16	110-57	6810	1889- 90	1889- 89	1889- 89	1898- 85	
WY YELLOWSTONE PARK	9905-01	44-58	110-42	6200	1886- 97	1889- 94	1886- 97	1887- 96	
END OF ALL FILES									

Minutes: Business Meeting
August 9, 1984
Chicago, Illinois

The 1984 business meeting was called to order by President Robert Muller (IA). President Muller expressed his appreciation to President-Elect John Griffiths (TX), who helped organize the meeting. President Muller than gave a brief review of his AASC activities for the year. He reviewed his efforts to strengthen the relationships between the Federal Agencies and the States. He said it is important for SC's and AASC representatives to explore the existing opportunities to cooperate with Federal Agencies. President Muller applauded the development at NCDC of a near-real time access system.

President Muller then called on Ken Hubbard (NE) for the Secretary-Treasurer's Report. Secretary Hubbard asked if there were any corrections or additions to the minutes of the previous meeting. There were no comments on the minutes. Hubbard then gave the treasurer's report, stating that AASC currently (8-9-84) has on deposit \$3,932.61. This total did not reflect the income at the meeting from dues and registration or bills for the meeting room and banquet. This report was discussed and then approved by the SC's present.

President Muller then asked the committee chairmen for reports. Myron Molnau (ID), chairman of the Computer Committee reported that there were no additions to or requests for the software that he had collected from SC's in previous years.

Paul Waite (IA), Chairman of the Publications Committee, reported that little activity had taken place since the review of Storm Data. Several comments from the floor indicated approval of the collection procedures for and the publication of Storm Data under the direction of Ted Fujita. John Purvis (SC) indicated that he would like to see SC's given the responsibility and

budget to operate Storm Data in-state. Comments followed from both those in favor and those against this proposal. Doug Clark (WI) indicated that his research program would prevent him from taking a very active role in Storm Data. Pat Michaels (VA) expressed an opinion that SC's have a responsibility to see that accurate information is available. Jim Wise (AK) stated that Alaska is so large that one SC could not undertake Storm Data for the state.

President Muller called for a motion to accept the committee reports. The State Climatologists present voted to accept all committee reports.

No other old business was raised from the floor so President Muller then called for new business. Jim Goodridge (CA), speaking as Chairman of the Nominations Committee (other committee members: John Purvis (SC) and Charles Bach (TN)) nominated Ken Hubbard (NE) for President-Elect. No other nominations were presented from the floor. A motion that nominations cease was passed thereby electing Ken Hubbard to President-Elect.

President Muller then called for nominations for Secretary-Treasurer. Jim Goodridge presented two names selected by the Nomination Committee: Doug Clark (WI) and Myron Molnau (ID). There were no additional nominations from the floor. Ballotting resulted in the election of Myron Molnau (ID) to the office of Secretary-Treasurer.

President Muller appointed a nominating committee for 1985. John (Russ) Mather (DE) was appointed as Chairman. Other appointments included Pat Michaels (VA) and Ken Kunkel (NM). There were no other suggested members for this committee and the appointments were approved by a voice vote.

President Muller then called for a discussion of possible locations for the 1985 meeting. Myron Molnau (ID) suggested that the AASC meet in the Spokane, WA area possibly in Coeur d'Alene, ID. John James (NV) then proposed the Reno, Nevada area (possibly Lake Tahoe). President Muller underscored the need to

alternate meeting sites among regions stating that it would be appropriate to hold the next meeting somewhere in the west. He then called for a show of hands to determine the favored meeting place. There was nearly an equal number favoring each area so he deferred the decision to the Executive Committee. Professor Landsberg, who earlier in the day had received life-time honorary membership in AASC, put forth a tongue-in-cheek suggestion enjoyed by all. Namely, that the group meet one day in Reno and one day in Spokane.

The president then called for nominations for new associate members in AASC. Nominations that were approved by the State Climatologists included:

Gaylen Ashcroft	Mark Shulman
Gene Carter	Steven Steinke
Michael S. Flynn	Philip Stenger
James Goodridge	Al Weiss
Howard Hill	John Westbrook
David H. Miller	James Zandlo

Tentative appointments to Committees for 1984-85 included the following:

Goals: James Wise (AK), Margaret Courain (NESDIS), William Lytle (SD), Robert Muller (LA), Glen Connors (KY) and John Griffiths (TX).

Education: Patrick Michaels (VA), Wayne Wendland (IL), Kenneth Haydeen (NCDC) and John Griffiths (TX).

Regional Opportunities: Peter Robinson (NC), John Purvis (SC), Nolan Doesken (CO) and Robert Muller (LA).

Computers: Myron Molnau (ID), Ernie Atkins (LA) and Gail Bingham (UT).

Instrumentation & Data Standards: Gail Bingham (UT), Kenneth Hubbard (NE), John Vogel (IL), Kenneth Kunkel (NM), Douglas Clark (WI), Fred Nurnberger (MI) and Myron Molnau (ID).

Publications: Paul Waite (IA), Larry Schall (IN), Earl Kuehnast (MN), John Purvis (SC) and Joseph Moyer (MD).

Other new business included an announcement by Fred Nurnberger (MI) that there will be three sessions dealing with weather subjects at the next meeting of the American Society of Agricultural Engineers. Climatologists were urged

to watch for the call for papers for the meetings to be held in East Lansing, MI in June 1985.

Nolan Doesken (CO) asked for comments on how the AASC might interact with the newly formed American Association of Weather Observers (AAWO). It was suggested that a representative of AAWO be invited to next year's meeting.

Bill Lytle (SD) informed the group of a meeting being held in Kansas City on October 10, 11 and 12, 1984. The meeting subject is Weather and Agriculture in the 1990s. The meeting is being sponsored by Research Stations of the Land Grant Universities and Regional Research Committees will be represented.

Wayne Wendland (IL) directed everyone's attention to the recent AMS Bulletin that contained a call for papers to the next conference on Applied Climatology to be held in Phoenix, AZ in May of 1985.

John Griffiths (TX) made a brief closing statement that included his appreciation for the fine job Wayne Wendland (IL) had done in making local arrangements.

Submitted by Kenneth G. Hubbard, Secretary-Treasurer

Photographs of the 1984 AASC Meeting in Chicago, Illinois.



Presentation of Honorary AASC Membership
to Professor Helmut E. Landsberg.

New Associate Members - 1984

Dr. Gaylen Ashcroft
Utah State University
Logan, UT 84322
801-750-2190

Mr. Steven D. Steinke
401 Whitney Blvd.
Belvidere, IL 61008
815-544-9819

Mr. Eugene A. Carter
K. E. Johnson Environmental &
Energy Center
University of Alabama
Huntsville, AL 35899
205-895-6331

Mr. Philip J. Stenger
Dept. of Environmental Sciences
University of Virginia
Charlottesville, VA 22903
804-924-7761

Dr. Michael S. Flynn
Director, Ag. Weather Service
Center/NWS
Soil & Crop Science Bldg.
Texas A&M University
College Station, TX 77843

Dr. Albert Weiss
Panhandle Station
4502 Avenue 1
Scottsbluff, NE 69361

Mr. James Goodridge
1520 18th St.
California Dept. of Water Res.
P.O. Box 388
Sacramento, CA 95814
916-445-1993

Dr. John K. Westbrook
USDA/ARS
P.O. Box 748
Tifton, GA 31793-0748

Dr. Howard Hill
NCPO, NOAA
Rockwall Bldg., Rm. 108, Code CP
11400 Rockville Pike
Rockville, MD 20852
301-443-8981

Mr. James A. Zandlo
Assistant State Climatologist
Minnesota DNR
University of Minnesota
279 North Hall
St. Paul, MN 55108

Dr. David H. Miller
Dept. of Geology & Geophysical
Sciences
Univ. of Wisconsin-Milwaukee
P.O. Box 413
Milwaukee, WI 53201

Dr. Mark Shulman
Department of Meteorology
P.O. Box 231
New Brunswick, NJ 08903

Associate, Former State and Honorary 8-16-84

Dr. Gaylen Ashcroft
Utah State University
Logan, UT 84322
801-750-2190

Mr. Eugene A. Carter*
K. E. Johnson Environmental &
Energy Center
The University of Alabama
Huntsville, AL 35899
205-895-6331

Ms. Ernie Atkins
Dept. of Geography and Anthropology
Louisiana State University
Baton Rouge, LA 70803
504-388-6870

Mr. Stanley Changnon*
Illinois State Water Survey
P.O. Box 5050, Station A
Champaign, IL 61820

Mr. William D. Bartlett
427 Old Haw Creek Road
Asheville, NC 28805
704-298-0322

Mr. Charles J. Chimento
Center Weather
701 C Street, Box 23
Anchorage, AK 99513

Mr. Richard Becker, Jr.
9220-2 Glen Haven Dr.
Anchorage, AK 99502

Ms. Ellen Cooter
Oklahoma Climatological Survey
University of Oklahoma
710 Asp, Suite 8
Norman, OK 73019
405-325-2541

Dr. Bruce Berryman
Meteorology Dept.
Lyndon State College
Lyndonville, VT 05851

Ms. Margaret E. Courain
NOAA - NESDIS
Page Building
3300 Whitehaven St., N.W.
Washington, DC 20235
202-634-7318

Mr. Tom Blackburn
9406 Baybrook Avenue
Silver Spring, MD 20901

Mr. George Bomar
Weather & Climate Section
Texas Dept. of Water Resources
P.O. Box 13087, Capitol Station
Austin, TX 78711

Prof. Arnold Court
Department of Geography
California State University
Northridge, CA 91330

Mr. Norman Canfield
Institute for Physical Science and
Technology
University of Maryland
College Park, MD 20742
301-454-7372 (office)

Dr. Harold Crutcher#
35 Westall Avenue
Asheville, NC 28804

Dr. Robert E. Dale
Agronomy Department
Life Science Building
Purdue University
West Lafayette, IN 47907

Mr. Richard M. Davis
305 Webb Cove
Asheville, NC 28804
704-259-0384

Mr. William H. Haggard
Climatological Consulting Corporation
P.O. Box 9306
Asheville, NC 28805
704-298-4237

Mr. Nolan J. Doesken
Colorado Climate Center
Department of Atmospheric Science
Colorado State University
Fort Collins, CO 80523

Mr. Wayne Hamberger
TVA
310 Evans Bldg.
Knoxville, TN 37902

Dr. Robert W. Durrenberger*
Climatologist
Arizona State University
Tempe, AZ 85281

Prof. Rolland Hauser
Dept. Geological & Physical Sci.
California State Univ., Chico
Chico, CA 95929
916-895-5082

Mr. Arnold I. Finklin
Northern Forest Fire Laboratory
Drawer G
Missoula, MT 59806

Dr. Bruce Hayden
Dept. of Environmental Sciences
Clark Hall
University of Virginia
Charlottesville, VA 22903

Dr. Michael S. Flynn
Director, Ag. Weather Service
Center/NWS
Soil & Crop Science Bldg.
Texas A&M University
College Station, TX 77843

Dr. Howard Hill
National Climate Program Office
National Oceanic and Atmospheric
Administration
Rockwall Building, Room 108, Code CP
11400 Rockville Pike
Rockville, MD 20852
301-443-8981

Mr. Grant W. Goodge
P.O. Box 1756
Asheville, NC 28802
704-259-0473

Mr. Cleo G. Hogan
89 Cumberland Avenue
P.O. Box 2132
Asheville, NC 28802

Mr. James Goodridge
1520 18th St.
California Dept. of Water Resources
P.O. Box 388
Sacramento, CA 95814
916-445-1993

Dr. L. Ray Hoxit
Route 1, Box 227A
Horse Shoe, NC 28742
704-298-4237

Dr. Kenneth D. Hadeen
Director - NCDC
Federal Bldg.
Asheville, NC 28801
704-259-0476

Dr. Donald T. Jensen
13609 SE 128th Ave.
Clackamas, OR 97015
503-658-8301

Dr. Charles L. Jordon*
Dept. of Meteorology
Florida State University
Tallahassee, FL 32306
904-644-3222

Dr. A. Boyd Pack
New York State College of Agriculture
Cornell University
Ithaca, NY 14850

Dr. Lowell Krawitz
9282 Darlington Road
Philadelphia, PA 19115

Mr. Mark Perry
Division of Research and Statistical
Services
1000 Assembly St., Suite 337
Columbia, SC 29201

Dr. H. E. Landsberg#
2207 Space Science Building
University of Maryland
College Park, MD 20742

Mr. Donald M. Pompelia
Camp Dresser and McKee, Inc.
One Center Plaza
Boston, MA 02108

Dr. Merlin P. Lawson
Dept. of Geography-307 AvH
University of Nebraska
Lincoln, NE 68508
402-472-2865

Dr. James Rahn
202 N. 25th St.
Camp Hill, PA 17011

Dr. Dale E. Linvill
Agricultural Meteorologist
Agricultural Engineering Dept.
Clemson University
Clemson, SC 29631

Dr. Kelly T. Redmond
Office of the State Climatologist
Climate Research Institute
Oregon State University
Corvallis, OR 97331

Dr. David H. Miller
Department of Geology & Geophysical
Sciences
University of Wisconsin
P.O. Box 413
Milwaukee, WI 53201

Mr. Malcolm Reid
8806 Anne Tucker Lane
Alexandria, VA 22309

Mr. Daniel B. Mitchell
6 Greenleaf Circle
Asheville, NC 28804

Prof. E. Arlo Richardson*
Soil Science and Biometeorology
Utah State University, UMC-48
Logan, UT 84322

Mr. H. Michael Mogil
Box 330057
Fort Worth, TX 76133-0057
817-294-5744

Mr. Robert Riggio
Texas Dept. of Water Resources
P.O. Box 13087
Capitol Station
Austin, TX 78711
512-475-6318

Mr. James W. Ownbey
35 Cambridge Ave.
Gulfport, MS 39501

Dr. Peter Robinson
Dept. of Geography
University of North Carolina
Chapel Hill, NC 27514

Dr. N. J. Rosenberg*
243 L.W. Chase Hall
CAMaC-0728
University of Nebraska
Lincoln, NE 68583
402-472-3679

Mr. John Vogel
Illinois Water Survey
P.O. Box 5050, Station A
Champaign, IL 61820
217-333-4261

Prof. Lawrence A. Schaal*
1000 Hedgewood Drive
Lafayette, IN 47904

Mr. Ron Weaver
Campus Box 449
University of Colorado
Boulder, CO 80309

Mr. Brad Schneller
Manager, Agroclimatology Program
Ministry of Agriculture and Food
University of Guelph
Guelph, Ontario NIG 2W1

Dr. Albert Weiss
Panhandle Station
4502 Avenue 1
Scottsbluff, NE 69361

Dr. Mark Shulman
Department of Meteorology
P.O. Box 231
New Brunswick, NJ 08903

Mr. Mathew Werner
CAMaC-239 Chase Hall
University of Nebraska
Lincoln, NE 68583-0728
402-472-6709

Mr. Steven D. Steinke
401 Whitney Blvd.
Belvidere, IL 61008
815-544-9819

Dr. John K. Westbrook
USDA-ARS
P.O. Box 748
Tifton, GA 31793-0748

Mr. Philip J. Stenger
Department of Environmental Sciences
University of Virginia
Charlottesville, VA 22903
804-924-7761

Mr. Donald R. Whitman
Chief, DATAC
National Weather Service Central
Region
Room 1836, 601 East 12th St.
Kansas City, MO 64106

Mr. Robert F. Strauss
Texas A&M University
Meteorology Department
College Station, TX 77843

Mr. James A. Zandlo
Assistant State Climatologist -
Minnesota
Minnesota DNR
University of Minnesota
279 North Hall
St. Paul, MN 55108

Dr. Norton Strommen
8314 Botsford Court
Springfield, VA 22152

* = Former S.C.

= Honorary Member

STATE CLIMATOLOGISTS

October 1984

*U-148
Dep of Geog*

ALABAMA

Dr. Richard McNider
K.E. Johnson Environmental &
Energy Center
The University of Alabama-Huntsville
Huntsville, AL 35899
205-895-6257

CONNECTICUT

Dr. David R. Miller
Dept. of Renewable Natural Resources
Box U-87
University of Connecticut
Storrs, CT 06268
203-486-2840

ALASKA

Mr. James L. Wise
AEIDC/University of Alaska
Alaska Climate Center
707 A Street
Anchorage, AK 99501
907-279-4523

DELAWARE

Dr. John R. Mather
Department of Geography
University of Delaware
Newark, DE 19716
302-738-2294 ✓

ARIZONA

Dr. Anthony J. Brazel
The Laboratory of Climatology
Arizona State University
Tempe, AZ 85287
602-965-6265

FLORIDA

Dr. Thomas A. Gleason
Department of Meteorology
Florida State University
Tallahassee, FL 32306
904-644-3222 ✓ - 644-3417

ARKANSAS

Dr. John Hehr
Department of Geography
Carnall Hall 104
University of Arkansas
Fayetteville, AR 72701
501-575-3159

GEORGIA

Dr. Gayther L. Plummer
Institute of Natural Resources
Ecology Building
University of Georgia
Athens, GA 30602
404-542-1555

CALIFORNIA

Mr. William A. Mork
California Dept. of Water Resources
Division of Flood Management
P. O. Box 388
Sacramento, CA 95802
916-445-5800

HAWAII

Mr. Robert T. Chuck
Division of Water & Land Development
Dept. of Land & Natural Resources
P. O. Box 373
Honolulu, HI 96809
808-548-7539

COLORADO

Dr. Thomas McKee
Colorado Climate Center
Dept. of Atmospheric Science
Colorado State University
Fort Collins, CO 80523
303-491-8545

IDAHO

Dr. Myron Molnau
Agricultural Engineering Dept.
University of Idaho
Moscow, ID 83843
208-885-6182

ILLINOIS

Dr. Wayne M. Wendland
Illinois State Water Survey
P. O. Box 5050, Station A
Champaign, IL 61820
217-333-0729

INDIANA

Mr. James E. Newman
Agronomy Department
Purdue University
West Lafayette, IN 47907
317-494-8100
FTS 331-5244

IOWA

Mr. Paul Waite
Iowa Dept. of Agriculture Weather
Service
Municipal Airport, Room 10
Des Moines, IA 50321
515-281-4062

KANSAS

Dr. L. Dean Bark
Dept. of Physics - Caldwell Hall
Kansas State University
Manhattan, KS 66506
913-532-6814

KENTUCKY

Mr. Glen Conner
Department of Geography & Geology
Western Kentucky University
Bowling Green, KY 42101
502-745-4555

LOUISIANA

Dr. Robert A. Muller
Dept. of Geography & Anthropology
Louisiana State University
Baton Rouge, LA 70803
504-388-6184

MAINE

Dr. James Dill
Extension Specialist
University of Maine
491 College Avenue
Orono, ME 04473
207-581-7980

MARYLAND

Mr. W. Joseph Moyer
1123A, Jull Hall
University of Maryland
College Park, MD 20742
~~301-454-3110~~

MASSACHUSETTS

Mr. David Taylor
State Climatologist
Dept. of Environmental Management
Division of Water Resources
496 Park Street
North Reading, MA 01864
617-275-8860, ext 138

MICHIGAN

Dr. Fred V. Nurnberger
MDA/Climatology Division
417 Natural Science Bldg.
Michigan State University
East Lansing, MI 48824
517-373-8338

MINNESOTA

Mr. Earl L. Kuehnast
Minnesota Dept. of Natural Resources
University of Minnesota
279 North Hall
St. Paul, MN 55108
612-296-4214
FTS 776-4214

MISSISSIPPI

Dr. Charles L. Wax
Dept. of Geology & Geography
Mississippi State University
Mississippi State, MS 39762
601-325-3915

MISSOURI

Professor Wayne L. Decker
Dept. of Atmospheric Science
University of Missouri - Columbia
701 Hitt Street
Columbia, MO 65211
314-882-6591

MONTANA

Professor Joseph M. Caprio
Plant & Soil Science Department
Montana State University
Bozeman, MT 59717
406-994-5067

NEBRASKA

Dr. Kenneth G. Hubbard
CAMAC
239 Agricultural Eng. Bldg.
University of Nebraska
Lincoln, NE 68583-0728
402-472-6706

NEVADA

Professor John W. James
Geography Department
College of Arts & Sciences
University of Nevada - Reno
Reno, NV 89557-0048
702-784-6947

NEW HAMPSHIRE

Professor Robert L. A. Adams
Dept. of Geography - James Hall
University of New Hampshire
Durham, NH 03824
603-862-1719 or 1718

NEW JERSEY

Professor A. Vaughn Havens
Dept. of Meteorology & Physical
Oceanography
Cook College, Rutgers University
P. O. Box 231
New Brunswick, NJ 08903
201-932-9520

NEW MEXICO

Dr. Kenneth E. Kunkel
State Climatologist
P. O. Box 5702
New Mexico Dept. of Agriculture
Las Cruces, NM 88003
505-646-3007

NEW YORK

Dr. Bernard E. Dethier
Atmospheric Science Unit
Box 21, Bradfield Hall
Cornell University
Ithaca, NY 14853
607-256-3034

NORTH CAROLINA

Dr. Jerry M. Davis
Dept. of Marine, Earth & Atmos. Sciences
North Carolina State University
Raleigh, NC 27650
919-737-2210

NORTH DAKOTA

Professor John W. Enz
Soils Department
North Dakota State University
Fargo, ND 58105
701-237-8576

OHIO

Professor John N. Rayner
Dept. of Geography
Ohio State University
103 Administration Building
Columbus, OH 43210-1361
614-422-2514

*Ms Joan Arnsfield
Ms Jenny Zorn*

OKLAHOMA

Dr. Amos Eddy
Oklahoma Climatological Survey
University of Oklahoma
710 Asp, Suite 8
Norman, OK 73019
405-325-2541

*ETS
736-4011*

OREGON

Dr. Allan H. Murphy
Dept. of Atmospheric Sciences
Oregon State University
Corvallis, OR 97331
503-754-4557

PENNSYLVANIA

No SC at this time.

RHODE ISLAND

Dr. Robert C. Wakefield
Dept. of Plant Sciences
Room 313, Woodward Hall
University of Rhode Island
Kingston, RI 02881
401-792-4549

SOUTH CAROLINA

Mr. John C. Purvis
S.C. Water Resources Commission
3830 Forest Drive
P. O. Box 4440
Columbia, SC 29240
803-758-2514

SOUTH DAKOTA

Professor William Lytle
Engineering Dept.
South Dakota State University
Brookings, SD 57007
605-688-5141

TENNESSEE

Mr. Charles Bach
Tennessee Valley Authority
310 Evans Building
Knoxville, TN 37902
615-632-4221
FTS 856-4221

TEXAS

Professor John F. Griffiths
Meteorology Department
Texas A&M University
College Station, TX 77843
713-845-7320

UTAH

Dr. Gail Bingham
Utah State Climatologist
Utah State University, UMC-48
Logan, UT 84322
801-750-2190

VERMONT

Dr. Leonard Perry
Hills Building
University of Vermont
Burlington, VT 05401
802-656-2630

VIRGINIA

Dr. Patrick Michaels
Dept. of Environmental Sciences
Clark Hall
University of Virginia
Charlottesville, VA 22903
804-924-0549

FTS 937-6011

WASHINGTON

Dr. Howard J. Critchfield
Office of the State Climatologist
Western Washington University
Bellingham, WA 98225
206-676-3116 or 3277

WEST VIRGINIA

Dr. Stanley J. Tajchman
Division of Forestry
337 Perceival Hall
West Virginia University
Morgantown, WV 26505
304-293-3411 - *930-5101*

Australia

FTS

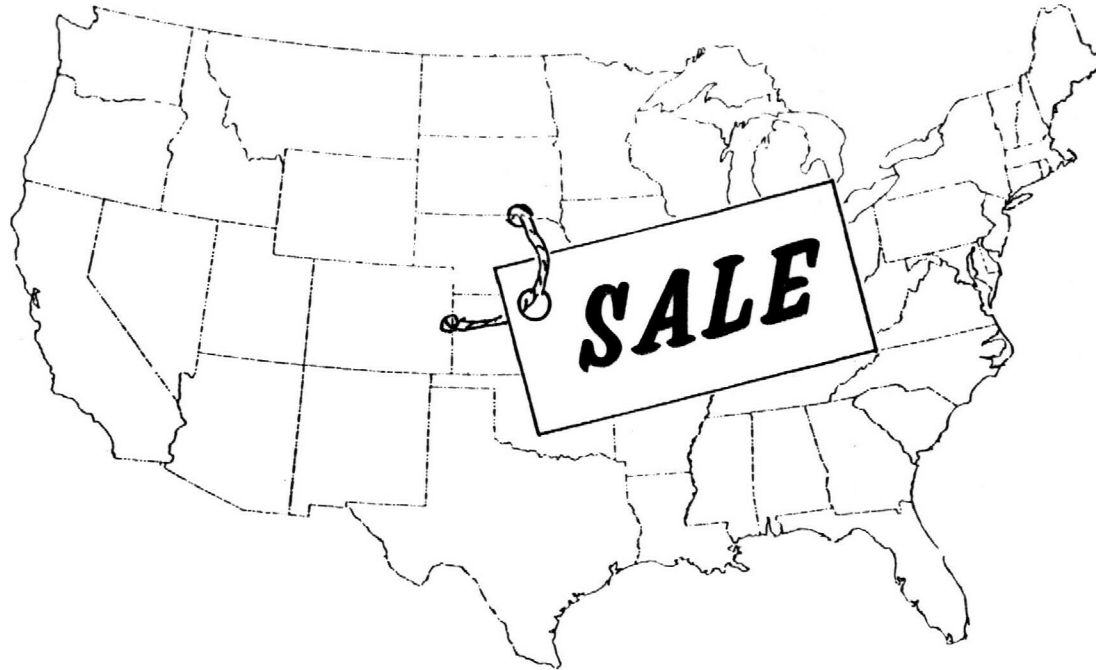
WISCONSIN

Dr. Douglas Clark
University of Wisconsin Extension
1353 Meteorology & Space Science Bldg.
1225 West Dayton Street
Madison, WI 53706
608-263-2374

WYOMING

No SC at this time.

NCDC SUBSCRIPTION PRICES



LOCAL CLIMATOLOGICAL DATA	\$ 8.45	\$ 5.20
CLIMATOLOGICAL DATA	19.50	9.75
HOURLY PRECIPITATION DATA	25.35	17.55
STORM DATA	12.60	13.80
MONTHLY CLIMATIC DATA - WORLD	50.40	21.00

DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE
NATIONAL CLIMATIC DATA CENTER
FEDERAL BUILDING
ASHEVILLE, N.C. 28801

POSTAGE AND FEES PAID
U.S. DEPARTMENT OF COMMERCE

COM 210
FIRST CLASS

