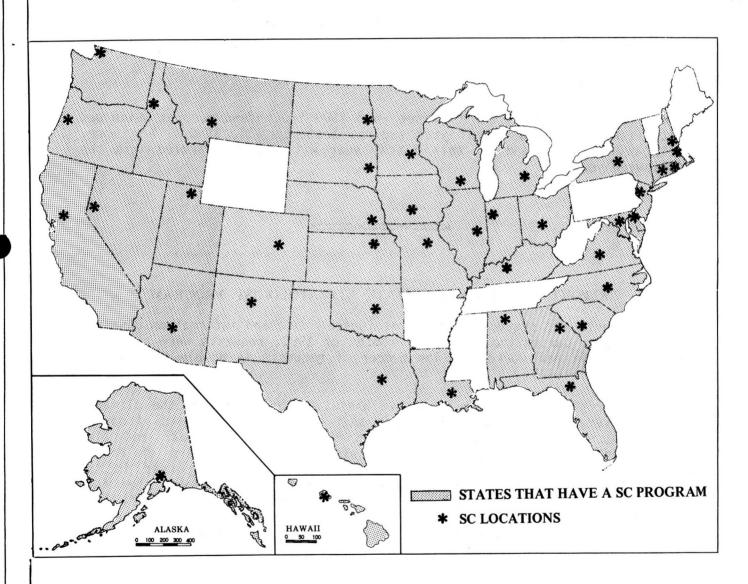
National Oceanic and Atmospheric Administration Environmental Data and Information Service National Climatic Center

NEWS LETTER

IN COOPERATION WITH
THE AMERICAN ASSOCIATION OF STATE CLIMATOLOGISTS



VOLUME 4 NUMBER 2 JUNE 1980

PUBLISHED QUARTERLY AT THE NATIONAL CLIMATIC CENTER, ASHEVILLE, N.C.

NCC BRIEFS

The National Climatic Center's (NCC's) Statistical Climatology Branch has developed a magnetic tape containing lightning statistics for the period 1959 - 1979. The tape contains the date/time (year, month, day and hour), location (state and county), number of fatalities, number of injuries and the estimated amount of property damage for each lightning associated report appearing in the NCC's STORM DATA publications. The information contained on this tape is used to develop the tables appearing in the "General Summary of Lightning" that appears in the annual publication of CLIMATOLOGICAL DATA, NATIONAL SUMMARY. There are approximately 14,000 individual reports for the 21-year period.

Contact Mr. Henry Vigansky at 704-258-2850, extension 319 for additional information.

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State Climatologists - Don't forget your \$500 trust fund account which was established for this fiscal year expires September 30, 1980. Any money left over at the end of this fiscal year will not be carried into the following year.



REPORT ON KENTUCKY STATE CLIMATOLOGIST PROGRAM

In Kentucky, requests for climatological data and information continue to increase. During the first four months of 1980, requests were averaging more than one per workday. The number of requests is double that of the same period in 1979.

Research is continuing to derive useful information from the climatic data. Several efforts are underway in that regard. An analysis of hourly precipitation data is being undertaken to discern its areal and time distribution. Thirty stations, each with twenty-five years of hourly records and distributed across the Commonwealth are being used in the study. The intent is to compare the distribution among the four climatological divisions during the months of January, April, July, and October. These months were chosen as representative of the seasons in Kentucky. Data collection is completed and the analysis has begun. Results are expected by mid-summer.

Additionally, research has begun using the water budget. Initial work on computer programs which will make the water budget calculations is nearing completion. The intent is to investigate the use of the water budget information in karst areas of Kentucky where primary drainage is underground and where surface runoff is virtually non-existent.

One major achievement of this year, has been the development of a computer mapping program for Kentucky which allows data to be mapped for about ninety stations. Using the SYMAP program to produce contour maps, the presentation of climatological data is now accomplished more rapidly and in a better reproducable form.

* * * * * * * * * *

REPORT ON LOUISIANA STATE CLIMATOLOGIST PROGRAM

Dr. Robert A. Muller, the State Climatologist for Louisiana, and the Chairman of the Department of Geography and Anthropology at L. S. U., has entered into a cooperative agreement with the Louisiana Department of Natural Resources for selected climatic studies, climatic information services, and a monthly climatic newsletter. At this time the agreement is on a year to year basis, but the hope is to develop the program as a line item within the L. S. U. budget. Mr. Charles Chimento, formerly with the NWS at New Orleans, Jackson, Mississippi, Athens, Georgia, and Fairbanks, has joined the program as a research associate. It is likely that emphasis will be placed on studies of moisture conditions, including both excessive rains and droughts, synoptic climatology, and air and water quality.

* * * * * * * * * *

The following was taken from the Iowa Department of Agriculture News Release, February 27, 1980.

"The Iowa Department of Agriculture has expanded its soil temperature analysis service, Iowa Agriculture Robert H. Lounsbery said today, and is now monitoring soil frost depths at seven locations in Iowa.

'Knowing when soils thaw out is an important factor in calculating the run off from melting snow and spring rains. Iowa soils normally thaw out during mid and late March or in northernmost counties in early April. Keeping data on rising soil temperatures provides valuable information for setting early garden and crop planting schedules. For example, wheat and grass development begins when top soils are warmed to 40°F, Irish potato development begins at 45°F, corn and sorghum will grow after soils reach 55°F and tender vegetables grow at 65°F,' Lounsberry said.

"The Iowa program is directed by Paul Waite, State Climatologist with the Iowa Department of Agriculture in cooperation with the National Weather Service. Volunteer observers who collect data include radio station personnel at KILR, Estherville, KBUR at Burlington and KOEL at Oelwein. Also, Iowa State University Farm Managers, Ray Nicholson at Ames and Wayne Fruehling at Castana, and the National Weather Service personnel at Dubuque and Earl May Seed personnel at Shenandoah. The information will be made available through regular weather reports from the Iowa Crop and Livestock Reporting Service."

SEX IN THE GARDEN by

E. Arlo Richardson

Utah Department of Agriculture Climatologist

"From as far back as I can remember I have heard the stories about the birds and the bees relating to an understanding of reproductive activities. With the current emphasis on human and animal procreation we often overlook the fact that plants have similar requirements. Reproduction in plants, however, is much more closely related to environmental weather conditions than man and animals.

"There are two ways in which flowering plants reproduce, sexually and asexually. Sexual plants require mates to reproduce while asexual plants are incapable of producing viable seeds. With both types of reproduction environmental weather conditions are very important, either directly or indirectly.

"Some plants have both male and female organs on the same plant while others have the male organs on one plant and the female on another. Regardless of which situation exists, pollen must be transferred from the male to the female organs in order for reproduction to take place. This transfer is most frequently handled by insects such as bees and butterflies. If weather conditions are poor, that is, if it is cloudy, stormy or if strong winds are blowing the insects will not be active and the flowers which are open during this period will not be pollinated. This situation frequently occurs during the spring with fruit trees and berries in the garden. Cherry trees, for example, usually bloom for only a very short time and if weather conditions are poor at that time then the fruit crop will be very small. The problem is a little less critical with berries which bloom over a long period of time since later blooms will be pollinated if the weather conditions are too poor for the first ones.

"A different form of weather impact on pollination is related to the pollination of corn. The winds are important in this case. The pollen from the tassels must reach the silk on the ears if seed reproduction is to occur. A little wind to move the pollen is quite important in the case of corn. Some gardeners plant corn in a single row along the edge of their

garden in which case it is difficult for adequate pollen to reach all of the silking ears. Corn does much better when planted in patches to allow a more concentrated distribution of the pollen.

"Pollination to tomatoes is related in a different manner to the weather. Most of the tomato plants require nighttime temperatures between 55 and 65 degrees for the pollen to be effective. If the temperatures are not in this range when the blooms are open the fruit will not develop and the bloom will merely fall off. In the case of the tomato the male and female parts of the plant are in the same bloom and the transfer takes place either by mechanical shaking of the wind or by the activity of insects.

"Another pollination problem which frequently occurs with fruit trees, is the time of bloom of the opposite sexes. Many apples, pears and most cherries, for example, require pollen from a different variety of the same specie in order for the blooms to be pollinated. Under normal Utah conditions, Yellow Delicious apples are frequently used as a pollinator for Red Delicious apples. Under more marginal weather conditions, the Yellow Delicious may not bloom at the same time as the Red Delicious apples and thus pollination cannot take place. In areas of New Mexico this is often the case and another variety of apples is frequently grown to pollinate the Red Delicious.

"Weather conditions are also important to the reproduction of asexual plants. If we take a cutting from a plant and try to get it to grow we must make certain that the soil temperature and moisture are adequate for roots to form. A temperature of the soil on the order of 75 degrees is optimum for most asexual plants to develop. If the soil gets too dry the process will not take place and the cutting will die. Thus weather is an important aspect of sex in the garden in more ways than one."



THE REFERENCE CLIMATOLOGICAL STATION (RCS) PROGRAM

How Did It Start?

The RCS Program was proposed by the NWS in 1954 but remained in a study stage for some years. In 1965-1966 it picked up momentum. Joint meetings between EDIS climatological and NWS operational personnel were held and implementation of the program was actively started. Dr. M. Mitchell was appointed project leader. A network of 25 sites was chosen with a final goal of 50 stations. Subsequently, 14 stations were commissioned and others tentatively selected for activation. However, from 1969 to 1973 the program stayed in a quasi-dormant stage. In 1973, with the close out of the State Climatologist Program, the files pertaining to

the project were transferred from the Division of Climatology (NWS) to the Special Project Office (EDIS). An EDIS decision followed, to proceed with the fulfillment of the program to meet its goal, albeit on a reduced scale. Since then, seven (7) additional stations have been added to the network (see attachment.)

What Is It?

The program consists of a network of climatological stations which is required to serve as "anchor points" to stabilize the present network of ordinary and principal climatological stations.

Why an RCS Program?

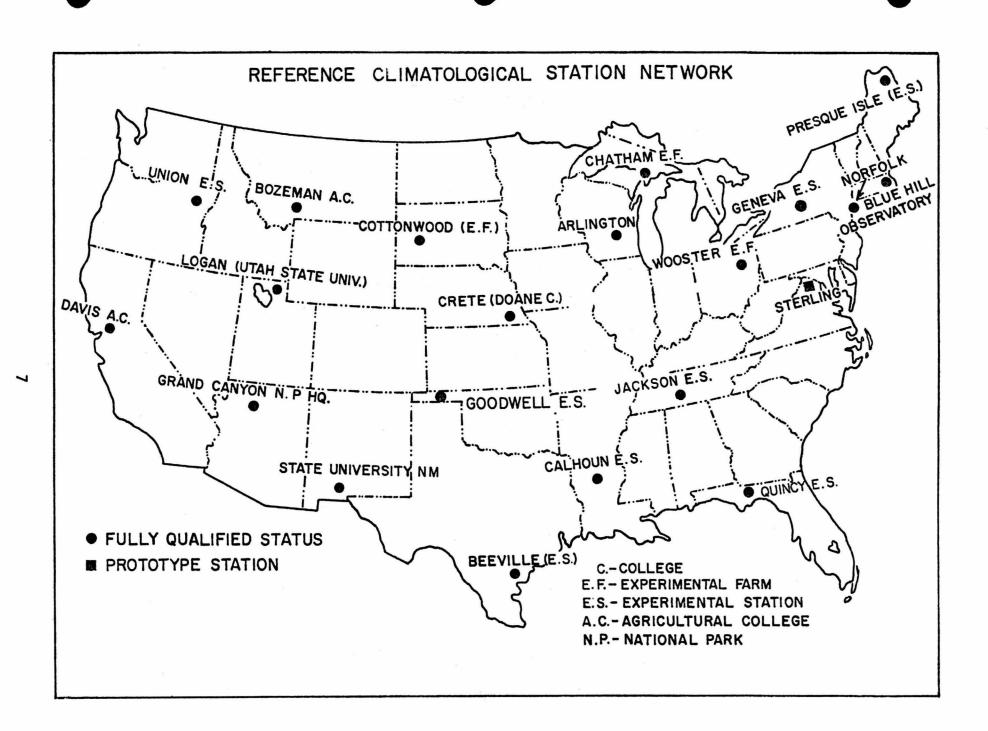
The need exists to gather records which will show whether there are climatic trends which can be identified. Our present network of ordinary and principal climatological stations is influenced by our dynamic, technological and moving society and suffers from frequent changes of location; environment (natural and man-made), and exposure. Consequently climatic series are interrupted and continuity can only be approximated by statistical techniques.

What Does It Do?

The program provides a true "baseline" of climatological records based on many years of observations in an undisturbed environment and leads to a genuine measure of climatic trends. The World Meteorological Organization has endorsed the establishment of reference station networks on a worldwide basis.

What Are MLC Responsibilities?

EDIS furnishes the technical leadership, monitors the program, and funds it. NWS operates the stations through its cooperative program and provides inspection and maintenance service.



NATIONAL WEATHER SERVICE SUBSTATION NETWORK STATISTICS FOR 1979 Eastern Region

	<u>N</u> a	etwor	ks as c	of Ju	ly 1 ×	, 1979 Total	N.	etwor!	ks as	of Jan	n. 1	, 1980 Total		<u>Ne</u> ab	t Ch	ange:	s x	Total			twork (a) mented	
Connecticut Delaware Maine Maryland & D.C. Massachusetts New Hampshire New Jersey New York North Carolina Ohio	7 4 28 21 16 7 7 33 47 15	5 2 17 7 16 19 13 54 44 56	36 22 36 22 68 52 55 184 103 167	0 2 0 23 0 1 8 8 10	2 1 7 0 0 8 39 6	50 11 82 80 100 79 91 318 210 251	7 4 30 22 16 7 7 35 48	5 2 16 7 16 19 13 54 43 56	36 3 41 22 68 53 60 184 102 166	0 2 0 20 0 1 1 12 9 10	2 1 1 6 0 0 2 39 6	50 12 88 77 100 80 94 321 209 253	0 0 +2 +1 0 0 0 +2 +1 0	0 0 -1 0 0 0 0 0	0 +1 +5 0 0 +1 +5 0 -1	0 0 0 -3 0 0 +4 +1 0 +3	0 0 0 -1 0 0 -6 0	0 +1 +6 -3 0 +1 +3 +3 -1 +2		1 0 7 0 1 1 0 10 10		
Pennsylvania Rhode Island South Carolina Vermont Virginia West Virginia	13 4 25 6 34 16	71 2 34 10 42 45	237 2 52 53 130 96	8 2 23 3 5	8 1 0 0 6 2	337 11 134 72 217 160	12 1 26 6 35 16	72 3 33 10 39 45	238 3 53 53 134 98	8 0 23 3 5	8 0 0 0 6 2	338 7 135 72 219 162	-1 -3 +1 0 +1	+1 +1 -1 0 -3 0	+1 +1 0 +4 +2	0 -2 0 0 0	0 -1 0 0 0	+1 -4 +1 0 +2 +2		10 0 0 0 2		
Totals	283	437	1295	107	81	2203	287	433	1314	110	73	2217	+4	-4	+19	+3	-8	+14		33		
								Sou	thern	Regio	n											
Alabama Arkansas Florida Georgia Louisiana	32 20 65 37 27	46 67 35 48 39	78 133 42 131 102	3 1 8 7 3	0 0 0 0	159 221 150 223 171	34 20 65 37 27	47 67 35 48 39	77 133 41 130 103	3 1 7 7 3	0 0 0 0	161 221 148 222 172	+2 0 0 0	+1 0 0 0	-1 0 -1 -1 +1	0 0 -1 0	0 0 0	+2 0 -2 -1 +1		2 3 5 3 6		
Mississippi New Mexico Oklahoma Tennessee Texas	24 65 14 42 97	55 76 94 34 234	104 61 217 59 514	3 6 1 5	0 0 0 0	186 208 326 140 862	24 65 13 42 101	55 76 96 34 230	104 59 211 59 521	3 5 1 5 27	0 0 0 0	186 205 321 140 879	0 0 -1 0 +4	0 0 +2 0 -4	0 -2 -6 0 +7	0 -1 0 0 +10	0 0 0 0	0 -3 -5 0 +17		50 1 0 53		
Puerto Rico Virgin Islands	4	20	68	1 2	0	93 27	4	20	68	1 2	0	93 27	0	0	0	0	0	0		0		
Totals	427	755	1527	57	0	2766	432	753	1525	65	0	2775	+5	-2	-2	+8	0	+9		125		
								Cen	tral F	egion												
Colorado	9	130	132	4	1	276	9	130	132	4	0	275	0	0	0	0	-1	-1		56		
Illinois Indiana Iowa Kansas	32 23 9	64 51 95 107	165 97 188 322	1 14 2 1	0 2 0 0	262 187 294 439	31 24 10 9	56 52 95 107	164 95 187 323	1 14 2 1	0 2 0 0	262 187 294 440	-1 +1 +1 0	+2 +1 0	-1 -2 -1 +1	0	0	0 0 0 +1		0 2 0 0		
Kentucky Michigan Minnesota Missouri Nebraska	28 48 16 8 5	62 114 110 115	125 148 105 184 222	11 32 10 7 3	0 6 2 0	213 296 247 309 345	28 51 16 8 5	50 61 114 110 115	128 145 105 187 223	11 31 10 7 3	0 6 2 0	217 294 247 312 346	0 +3 0 0	+1 -1 0 0	+3 -3 0 +3 +1	0 -1 0 0	0 0 0 0	+4 -2 0 +3 +1		0 0 1 2 2		
North Dakota South Dakota Wisconsin Wyoming	0 12 7 20	105 93 102 103	114 70 101 49	4 3 9 4	0 0	224 178 219 176	0 12 7 19	105 94 101 106	117 71 101 47	4 3 9 4	0 0	227 180 218 176	0 0 0 -1	0 +1 -1 +3	+3 +1 0 -2	0	0	+3 +2 -1 0		1 10 0 50		
Totals	226	1300	2022	105	12	3665	229	1306	2025	104	11	3675	+3	+6	+3	-1	-1	+10		124		
								Wes	tern I	Region	1											
Arizona California Idaho Montana Nevada	41 134 35 38 42	120 128 81 174 61	61 395 51 157 12	1 16 9 7	1 16 2 4 0	224 689 178 380 116	41 135 35 38 43	115 129 81 174 61	59 391 50 157 12	3 16 9 6	15 2 4	219 686 177 379 117	0 +1 0 0 +1	-5 +1 0 0	-2 -4 -1 0	+2 0 0 -1 0	0 -1 0 0	-5 -3 -1 -1		42 14 32 26 75		
Oregon Utah Washington	11 44 52	85 73	177 65 125	14 5 4	7 0 2	367 199 256	11 44 53	158 85 72	177 68 122	14 5 4	7 0 2	367 202 253	0 +1		0 +3 -3	0	0	0 +3 -3		12 32 9		
Totals	397	880	1043	57	32	2409	400	875	1036	58	31	2400	+3	-5	-7	+1	-1	-9		242		
			tai 1	1				<u>A3</u>	aska l	Region	1							13				
Alaska	120	30	48	2	0	200	118	30	54	2	0	204	-2	0	+6	0	0	+4		33		
								Pac	ific	Region	1											
Hawaii & Pacific Island	0 s	51	251	20	0	322	0	51	253	17	0	321	0	0	+2	-3	0	-1		0		
GRAND TOTALS	1453	3453	6186	348	125	11565	1466	3448	6207	356	115	11592	+13	-5	+21	+8	-10	+27		557		

The figures in parenthesis beside the planned (a) network indicate the number of locations approved for that type of substation which cannot be established at this time due to location in an uninhabited or remote area.

Also included in this table are 571 first- and second-order stations with network designations.

Alaska has no definite number of stations in the planned network due to circumstances peculiar to that area.

COUNT OF SUBSTATION AND SERVICES ALL NETWORKS

SUBSTATIONS

Number of substations by network: A 1466 AB 3448 B 6207 C 356 x 115 Number of stations with paid services Number of stations without paid services Number of stations having associate services First and second order stations	11,592 4,100 7,492 746 571
SUBSTATION SERVICES	
Number of stations having the following services:	
Both temperature and non-recording precipitation Won-recording precipitation without temperature Storage gage	5,892 3,218 36
FC-1 precipitation (recording and/or non-recording) stations	2,874
Hourly precipitation stations (recording precipitation)	3,204
Sponsored by S&E Sponsored by S&E (FC-1) Sponsored by other government agencies Associate stations	406 2,537 127 134
Substations with both daily (or storage) and hourly precipitation services Crop reporting stations	1,930 512
River and/or rainfall reporting stations River stage reports only Rainfall reports only River stage and rainfall reports	5,492 970 3,497 1,025
Evaporation stations	434
Telemetered stations Automated Hydrological Observing System (AHOS) AHOS/T AHOS/S	1,305 508 447 61
Special reporting stations	213
Miscellaneous (snow density, special meteorological)	388
Number of publishing stations that have these services: Temperature Daily (or storage) precipitation Hourly precipitation Evaporation Soil temperature	5,732 8,374 3,106 427 277
TOTAL NUMBER OF STATIONS PUBLISHED	.9,608

$\frac{\texttt{COUNT OF SUBSTATIONS AND EQUIPMENT}}{\texttt{ALL NETWORKS}}$

Total number of stations	11,592
Number of stations with:	
Standard max/min thermometers Thermographs Hygrothermographs Other types of thermometers	5,748 274 269 103
Standard rain gages Universal rain gages Fischer & Porter rain gages Tipping Bucket rain gages Storage rain gages Plastic or Wedge rain gages Other types of rain gages	8,953 1,224 2,079 250 37 103 40
NWS-Owned river gages	633
AHOS/T/S river and/or rain gages River gages only Rain gages only Both river and rain gages	447 148 242 57
AHOS/S/S River and/or rain gages River gages only Rain gages only Both river and rain gages	61 10 32 19
BDT's River and/or rain gages River gages only Rain gages only Both river and rain gages	381 217 152 12
Telemarks River and/or rain gages River gages only Rain gages only Both river and rain gages	363 354 9 0
VHF River and/or rain gages River gages only Rain gages only Both river and rain gages	47 16 18 13
Other types of telemetry river and/or rain gages River gages only Rain gages only Both river and rain gages	31 10 21 0
Snow stakes Green (Adirondack) snow density kits Federal (Mount Rose) snow sampler Other snow equipment	198 43 11 125
Palmer soil thermometers Other (or unspecified) soil equipment	237 102
Evaporation equipment	536
Other miscellaneous equipment	407

LIST OF PUBLISHED SOIL SURVEYS

The U.S. Department of Agriculture, in cooperation with state agricultural experiment stations and other federal and state agencies, has been making soil surveys and publishing them since 1899. These surveys furnish soil maps and interpretations needed in giving technical assistance to farmers and ranchers, in guiding other decisions about soil selection, use, and management, in planning research and disseminating the results of the research, and they are used in educational programs about soil use and conservation. Sound scientific and technical standards are used in a nationwide system of soil classification, nomenclature, interpretation, and publication.

Soil classification has improved as our knowledge about soils and their potential uses has increased. As agriculture has become more technical, a proper fit between the kind of soil and the combination of practices used has become more critical. Because of this, soils bearing the same names are more narrowly defined in recent surveys than in the older ones.

When soil survey work began in 1899 little was known about the soils of the United States. Since then a great deal has been learned, methods have been improved, and the results of the surveys are more accurate and detailed. For planning farms, engineering structures, parks, urban developments, and other uses of land, the recent published soil surveys are more useful. The older surveys can be of considerable assistance for many users, but their maps are more general than those in recent surveys and some of the interpretations need to be updated.

Published soil surveys contain, in addition to soil maps, general information about the agriculture and climate of the area and descriptions of each kind of soil. They include a discussion of the formation and classification of the soils in the area and also soil laboratory data when available.

Soil surveys published since 1957 contain many different kinds of interpretations for each of the different soils mapped in the area. The kinds of interpretations included in these recent surveys vary with the needs of the area, but the following interpretations are in most of them: Estimated yields of the common agricultural crops under defined levels of management; land-capability interpretations, soil-woodland interpretations, rangeland interpretations, engineering uses of soils, interpretations for community planning, suitability of the soil for drainage and irrigation, suitability of the soil for wildlife and for recreation.

Most of the soil surveys published since 1957 contain soil maps printed on a photomosaic base. The usual map scale is 1:24,000, 1:20,000 or 1:15,840, depending on the needs of the area.

This publication lists those surveys that have been published by the U.S. Department of Agriculture. A few state agencies also publish surveys but, except for nine in Illinois, these are not included in this list.

A soil survey published by the U.S. Department of Agriculture that is still in print can be obtained in one of the following ways:

Land users in the area surveyed and professional workers who have use for the survey can obtain a free copy from the state or local office of the Soil Conservation Service, from their county agent, or from their congressman. Many libraries keep published soil surveys on file for reference. Also, soil conservation district offices and county agricultural extension offices have copies of local soil surveys that can be used for reference.

Most published soil surveys cover one or more counties and are so named. Where the survey covers only a part of one or more counties, the word "area" is a part of the name. The date in the list is the year the field work was completed for surveys made from 1899 to 1936; from 1937 on it is the year the publication was issued.

Soil surveys are being completed and published at a rapid rate, so this list is always at least a little out of date. For information on the current status of a soil survey not listed herein, inquiry should be made to the State Conservationist, Soil Conservation Service, in the appropriate state. Addresses of State Conservationists are listed on the back of this page.

Wright Building 138 South Gay Street Auburn, AL 36830

Suite 129, Professional Building 2221 East Northern Lights Boulevard Anchorage, AK 99504

230 North 1st Avenue 3008 Federal Building Phoenix, AZ 85025

Room 5029 Federal Office Building 700 West Capitol Little Rock, AR 72203

2828 Chiles Road Davis, CA 95616

2490 West 26th Avenue Diamond Hill, Building A Denver, CO 80217

Mansfield Professional Park Route 44A Storrs, CT 06268

Treadway Towers--Suite 2-4 9 East Loockerman Street Dover, DE 19901

Federal Building P.O. Box 1208 Gainesville, FL 32602

Federal Building 355 East Hancock Avenue P.O. Box 832 Athens, GA 30603

Prince Jonah Kuhio Kolanianaola Building 300 Ala Moana Boulevard Room 4316 Honolulu, HI 96850

Room 345 304 North 8th Street Boise, ID 83702

Federal Building 200 West Church Street P.O. Box 678 Champaign, IL 61820

Atkinson Square-West Suite 2200 5610 Crawfordsville Road Indianapolis, IN 46224

693 Federal Building 210 Walnut Street Des Moines, IA 50309

760 South Broadway P.O. Box 600 Salina, KS 67401

333 Waller Avenue Lexington, KY 40504 3737 Government Street P.O. Box 1630 Alexandria, LA 71301

USDA Building University of Maine Orono, ME 04473

Hartwick Building Room 522 4321 Hartwick Road College Park, MD 20740

29 Cottage Street Amherst, MA 01002

Room 101 1405 South Harrison Road East Lansing, MI 48823

200 Federal Building and U.S. Courthouse 316 North Robert Street St. Paul, MN 55101

Federal Building, Suite 1321 100 West Capitol Street P. O. Box 610 Jackson, MS 39201

555 Vandiver Drive Columbia, MO 65201

Federal Building P.O. Box 970 Bozeman, MT 59715

Federal Building-U.S. Courthouse, Room 345 Lincoln, NE 68508

Room 308 U.S. Post Office Building P.O. Box 4850 Reno, NV 89505

Federal Building Durham, NH 03824

1370 Hamilton Street P.O. Box 219 Somerset, NJ 08873

517 Gold Avenue S.W. P.O. Box 2007 Albuquerque, NM 87103

U.S. Courthouse and Federal Building 100 South Clinton Street Room 771 Syracuse, NY 13260

310 New Bern Avenue, Room 544 Federal Office Building P.O. Box 27307 Raleigh, NC 27611

Federal Building P.O. Box 1458 Bismarck, ND 58501 Federal Building, Room 522 200 North High Street Columbus, OH 43215

Agricultural Center Office Building Farm Road and Brumley Street Stillwater, OK 74074

Federal Building, 16th Floor 1220 S.W. 3rd Avenue Portland, OR 97209

Federal Building and U.S. Courthouse P.O. Box 985 Federal Square Station Harrisburg, PA 17108

Room 633, 6th Floor Federal Building Chardon Avenue Hato Rey, PR 00918

46 Quaker Lane West Warwick, RI 02893

Room 950 1835 Assembly Street Columbia, SC 29201

Federal Building 200 4th Street, S.W. Huron, SD 57350

675 U.S. Courthouse Nashville, TN 37203

W. R. Poage Federal Building 101 South Main Street P.O. Box 648 Temple, TX 76501

4012 Federal Building 125 South State Street Salt Lake City, UT 84138

1 Burlington Square Suite 205 Burlington, VT 05401

Federal Building, Room 9201 400 North 8th Street P.O. Box 10026 Richmond, VA 23240

360 U.S. Courthouse West 920 Riverside Avenue Spokane, WA 99201

75 High Street P.O. Box 865 Morgantown, WV 26505

4601 Hammersley Road Madison, WI 53711

Federal Office Building P.O. Box 2440 Casper, WY 82601



UNITED STATES DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration Washington, D.C. 20230

OFFICE OF THE ADMINISTRATOR

UNIVERSITY AFFAIRS LETTER

Washington, D.C., April 1980

Dear Colleague,

A perspective on NOAA's recruiting needs. . . During the winter of 1980 the largest number of retirements ever took place within the National Weather Service. They occurred at every level with a significant number at high level managerial positions; one Regional Director, four Regional Deputy Directors, Director, National Severe Storms Forecast Center, two Chief's of Personnel, four Meteorologist-in-Charge of forecast offices, three Regional Hydrologists, and a number of top people from Headquarters offices.

.... Some of the positions have been filled from within; however, the National Weather Service welcomes applications from university meteorologists and hydrologists and others outside of the federal government. Write to Donna Young, NWS Personnel Branch, Room 1225, Grammax Building, Silver Spring, Md. 20910.

Dr. Norbert Untersteiner is now a senior oceanographer in NOAA. . .having accepted an appointment recently as the <u>Director of the Office of Ocean Programs</u> for R&D. He formerly was Professor of Atmospheric Science and Oceanography at the University of Washington.

A longer look ahead. . .at university/industry/government relationships. . . is charted in a worth-reading article in the January 25, 1980 issue of Science. Written by Dennis Prager and Gil Omenn the paper concludes that "The time appears ripe for major improvements in university-industry relationships in science and engineering." Today's attitudinal and institutional barriers are real and must be dealt with as we look ahead through the 80's and 90's.

. More and more research proposals will be generated on campus and in industry to explore effective R&D cooperation among government, industry, and universities. Here is a long-range opportunity for academic and industrial scientists and engineers to lead the way and make determined efforts to plan for the new developments.

An announcement. . . of NOAA Postdoctoral Research Awards. . .can be found in the Federal Register for April 16, 1980. A modest new NOAA grants program, up to six awards are planned this year. See the reverse side of this letter for more details.

Sincerely yours,

NORR TO STANDARD OF THE PARTY O

10TH ANNIVERSARY 1970-1980
National Oceanic and Atmospheric Administration

A young agency with an historic tradition of service to the Nation

NOAA POSTDOCTORAL RESEARCH AWARDS

in <u>Atmospheric</u>, <u>Fisheries</u>, <u>Oceanic</u> <u>Sciences</u> and <u>Related</u> <u>Fields</u>

Application Deadline: June 10, 1980 Award Date: August 1, 1980

In 1980 NOAA plans to award up to six <u>Postdoctoral Research Support Grants</u>. NOAA is seeking to fund a few recent postdoctorals having outstanding records and exceptional promise in academic research; those postdoctorals engaged in front-line scientific work on atmospheric, fisheries, and ocean sciences, and related fields that undergird the mission of NOAA. Eligible postdoctorals must be United States citizens and must have received their Ph.D.'s since January 1, 1978, and before June 10, 1980.

Grants would be made to the home university for one or two years, nonrenewable. Successful applicants will receive a stipend of \$20,000 for twelve months with applicable fringe benefits. The grant application will allow as necessary a modest request for equipment, supplies, travel, publication, plus indirect costs. It is estimated that funds up to \$35,000 per year would be available, depending upon the nature of the proposed laboratory or theoretical research.

As a special provision. . .each grantee would be asked to establish a visiting relationship with a suitable NOAA laboratory or other facility and be in residence there a minimum of one month each year to communicate on the postdoctoral research program and results and to learn firsthand about the scientific programs and research needs of NOAA. The objective is a helpful interchange between the campus and NOAA.

Those interested in applying for a postdoctoral research support award can obtain further information and informal guidelines by writing to Dr. Earl G. Droessler, Director of University Affairs, NOAA, Room 5808, Commerce Department, Washington, D.C. 20230.

Since the NOAA grants would be awarded to universities, formal research proposals should be prepared and processed on campus in the usual way through the university administration. Twelve (12) copies of these proposals are required.