CDC Assessment of STLT Grantee SAS® Users

Introduction Script

Hello, CDC is gathering information about analytic practices and software usage among data analysts in health departments who are using CDC-provided SAS licenses. You have been identified as a SAS user, and we need and appreciate your input. This assessment should take about 30 minutes for you to complete.

The purpose of this assessment is to develop a comprehensive strategy to facilitate analytic capacity building in state, tribal, local, and territorial health departments and CDC. To develop the strategy, the questions will be used to assess practices related to data analysis among grantees using CDC-provided SAS licenses. Specific information collected will include
1. Access to SAS and whether Direct Assistance was used to obtain the license
2. Current and potential for sharing SAS license (on server and cloud)
3. Types of software being used for different types of data analytic work
4. Frequency that different types of analyses are performed
5. User proficiency and whether employer requires use of specific types of software and user proficiency in different types of software
6. Interest in participating in work groups to share tips about specific types of software used in analyzing data

Section 0: Screening Questions

0.1   With which of the following are you affiliated: (Select the best response)

      1   A state health department
           1a   If state, which state? (Create pull down list)
      2   A local health department (e.g., county)
           2a   If county, which county? (e.g., Hudson County Health Department)
               _____
      3   A tribal health department
           3a   If tribal, which tribal health department? _____
      4   A territorial health department
           4a   If territory, which territorial health department? _____
      5   None of the above

If **"None of the above,"** thank you for your participation, but this assessment is only for those who are affiliated with a state, tribal, local, or territorial health department.
STOP Questions

0.2   Are you an "authorized software user" of this SAS license?

"Authorized Software Users" shall mean A) All employees of HHS, including all operating divisions of HHS B) HHS contractors C) HHS subcontractors, and D) CDC Grantees performing CDC program activities or who provide public portals for the processing or analysis of data in connection with the Grantee's CDC Program Activities, as specified in the applicable grant or cooperative agreement between CDC and the CDC Grantee.

      1   Yes
      2   No

If **"No,"** thank you for your participation, but this assessment is only for those who are affiliated with a state, tribal, local or territorial health department and authorized software users.
STOP Questions

Section 1: Basic Respondent Information

1.1   Which of the following best describes your role in your organization? (Select the best response) (Create pull down list)

1   Administrative/Clerical Staff
2   Behavioral Health Professional
3   Data Analyst
4   Data Manager
5   Director/Manager (e.g., Health Official, Public Health Director, Division or Program Director, etc.)
6   Emergency Preparedness Coordinator or Staff
7   Environmental Health Coordinator/Sanitarian/Specialist/Scientist
8   Epidemiologist
9   Evaluation Specialist
10   Fiscal Officer/Accountant
11   Health Communicator
12   Health Educator
13   Health Scientist
14   Information Technology Specialist
15   Laboratorian
16   Lawyer or Policy Advisor
17   Nurse
18   Nutritionist
19   Physician
20   Public Information Officer
21   Researcher
22   Statistician
23   Other role (please specify): _____

1.2   Which of the following cooperative agreements or grants do you work on? (Select all that apply) (Create pull down list)

1   Addressing Asthma from a Public Health Perspective
2   Behavioral Risk Factor Surveillance System (BRFSS)
3   Birth Defects Research and Prevention
4   Cancer Prevention and Control
5   Childhood Lead Poisoning Prevention
6   Emerging Infections Program
7   Epidemiology Laboratory Capacity (ELC) (except NEDSS; see below)
8   Family Planning Training Grant
9   Health Assessment Initiatives

10   Heart Disease and Stroke Prevention Programs
11   HIV Behavioral
12   HIV Prevention
13   HIV Surveillance
14   Immunization & Vaccines for Children
15   Emerging Infections Program (EIP)
16   National Acute Hazardous Substances Incidents Surveillance and Prevention
17   National Breast & Cervical Cancer Early Detection Program
18   National Electronic Disease Surveillance Systems (NEDSS)
19   National Environmental Public Health Tracking Program
20   National Program of Cancer Registries
21   National Public Health Improvement Initiative (NPHII)
22   National Toxic Substance Incidents Program
23   National Violent Death Reporting System
24   Occupational Health Surveillance
25   Oral Disease Prevention Program
26   Pregnancy and Risk Assessment Monitoring System (PRAMS)
27   Preventive Health and Health Services Block Grant
28   Program Collaboration and Services Integration (PCS)
29   Programs for the Prevention of Fire-Related Injuries
30   Public Health Emergency Preparedness (PHEP)
31   Tobacco Use Prevention and Control
32   Tuberculosis Prevention and Control Program
33   STD Prevention and Control
34   Vital Statistics Cooperative Program
35   Other cooperative agreement (please specify): _____
36   No cooperative agreement or grant
37   Don't know/Not sure

1.3   Which of the following best describes your role in SAS licensure at your organization? Please select all that apply (Create pull down list)

1   Information Technology support
2   Principal contact for a CDC-supplied SAS license
3   Procurer of SAS license (non-CDC-funded)
4   SAS user only
5   Other role in SAS licensure (please specify): _____

<u>**Section 2: SAS Access and Procurement**</u>

2.1 **Do you receive SAS via Direct Assistance? (i.e. the amount of your financial assistance award is reduced by the cost of the SAS license)?**

1 Yes
2 No
7 Don't know/Not sure

2.2 **Is SAS installed locally on your desktop?**

1 Yes
2 No
7 Don't know/Not sure

2.3 **Do you access SAS on a server?**

1 Yes
2 No
7 Don't know/Not sure

If "No" or "Don't know Not sure," skip to Question 2.4

2.3a **If you use SAS on a server, please indicate the reasons why. (Select all that apply) (Create pull down list)**

1 Analyses run faster on the server
2 Server can process larger data sets
3 Server is shared by multiple users and cost less per user
4 This is the only option available to me
5 Don't know/Not sure
6 Other reason (please specify): _____

2.4 **Are there restrictions on sharing a SAS license with other users in your health department?**

1 Yes
2 No
7 Don't know/Not sure

2.5 **If CDC provided analytical software through cloud technology, would your IT security policies prevent you from using cloud technology for SAS?**

1 Yes
2 No
7 Don't know/Not sure

Section 3: SAS Software Usage and Technical Assistance

The following questions are about SAS usage and technical assistance.

3.1   What are your programmatic reasons for using SAS? (Select all that apply) (Create pull down list)

  1   Analytical epidemiology study (not outbreak/emergency response)
  2   Annual and/or periodic reports
  3   Data analysis
  4   Epidemiological profiles
  5   Management of surveillance data
  6   Outbreak or emergency response investigation
  7   Preparedness and response
  8   Public data presentations
  9   Routine reports for trend analysis, vaccine uptake, etc.
  10 Vital statistics
  11 Web data presentations
  12 Other programmatic reason (please specify): _____

3.2   What is your <u>main</u> programmatic reason for using SAS? (Select the best response) (Create pull down list)

  1   Analytical epidemiology study (not outbreak/emergency response)
  2   Annual and/or periodic reports
  3   Data analysis
  4   Epidemiological profiles
  5   Management of surveillance data
  6   Outbreak or emergency response investigation
  7   Preparedness and response
  8   Public data presentations
  9   Routine reports for trend analysis, vaccine uptake, etc.
  10 Vital statistics
  11 Web data presentations
  12 Other programmatic reason (please specify): _____

3.3   Which of these BASE SAS products do you use? (Select all that apply) (Create pull down list)

  1   Base SAS
  2   SAS AppDev Studio
  3   SAS Enterprise Guide
  4   SAS Integration Technologies
  5   SAS/ACCESS Interface to DB2
  6   SAS/ACCESS Interface to MySQL

7   SAS/ACCESS Interface to ODBC
8   SAS/ACCESS Interface to OLE DB
9   SAS/ACCESS Interface to Oracle
10 SAS/ACCESS Interface to PC Files
11 SAS/ACCESS Interface to R/3
12 SAS/ACCESS Interface to Sybase
13 SAS/ACCESS Interface to Teradata
14 SAS/AF
15 SAS/ASSIST
16 SAS/CONNECT
17 SAS/EIS
18 SAS/ETS
19 SAS/FSP
20 SAS/GIS
21 SAS/GRAPH
22 SAS/IML
23 SAS/INSIGHT
24 SAS/IntrNet
25 SAS/LAB
25 SAS/OR
27 SAS/QC
28 SAS/SHARE
29 SAS/STAT
30 SAS/TOOLKIT
31 Other Base SAS product (please specify): _____

3.4   Which analytic functions do you use SAS to perform? (Select all that apply) (Create pull down list)

1   Data management
2   Correlation analysis
3   Frequency analysis/cross tabs
4   Linear regression
5   Logistic regression
6   Generalized linear models
7   Time series analysis
8   Complex sample survey analysis
9   Multivariate analysis (e.g., cluster analysis, factor analysis)
10 Power and sample size determinations
11 Survival analysis
12 Nonparametric statistics
13 Bayesian analysis
14 Geospatial analysis
15 Graphics
16 Other analytic functions (please specify): _____

3.5 **Which SAS version do you use?**

1   9.1
2   9.13
3   9.2
4   9.3
5   Other SAS version (please specify): _____
7   Don't know-/-Not sure

3.6 **What type of SAS technical assistance do you receive from CDC? (Select all that apply) (Create pull down list)**

1   Assistance with SAS debugging and error resolution
2   Assistance with SAS programming statements
3   Epidemiology
4   IT
5   Pre-written SAS programs
6   SAS Setup and configuration
7   Statistical analysis
8   Other type of technical assistance with SAS (please specify):

    _____
9   No technical assistance from CDC
    If "No technical assistance from CDC," skip to Question 3.7

3.6a **How often do you use SAS technical assistance from CDC? (Select the best response)**

1   Daily
2   Weekly
3   Monthly
4   Quarterly or less

3.6b **How satisfied are you with the technical assistance provided by CDC? (Select the best response)**

1   Very satisfied
2   Satisfied
3   Somewhat satisfied
4   Dissatisfied
5   Very dissatisfied

3.7   Do you obtain SAS technical assistance from other users? (Select the best response)

     1   Yes
     2   No
     7   Don't know/Not sure

Section 4: Use of SAS and Other Statistical Software Packages

The next 2 questions concern software packages you may use in addition to SAS to help us understand your analytic practices. CDC will not be providing these additional software packages, with the exception of EpiInfo.

4.1 **Please indicate how often, on an average weekly basis, you use each of the following software packages for CDC Program Activities:**

	Hours/week					
	0	**1 - 10**	**11-20**	**21 - 30**	**31-40**	**40+**
Access						
Angoss						
DAP						
EpiInfo						
Excel						
GenStat						
Mathematica						
R						
SAS						
SPLUS						
SPSS						
STATA						
STATISTICA						
SUDAAN						
WPS						
Other (please specify)						

4.2   Please select the purposes for which you use the following software packages:

	Data Management	Program-ming	Graphics/ Mapping	Statistical analysis and/or reports	Data Cleaning	Data Mining	Don't Use	Other
Access								
Angoss								
DAP								
Epi Info								
Excel								
GenStat								
Mathematica								
R								
SAS								
SPLUS								
SPSS								
STATA								
STATISTICA								
SUDAAN								
WPS								
Other (please specify)								

Section 5: Statistical Software Experience

5.1 **Please indicate how many years of experience you have using the following software packages:**

	Never used	<1 year	1 to 5 years	6 to 10 years	>10 years
Access					
Angoss					
DAP					
Epi Info					
Excel					
GenStat					
Mathematica					
R					
SAS					
SPLUS					
SPSS					
STATA					
STATISTICA					
SUDAAN					
WPS					
Other (please specify)					

5.2 **Please indicate your level of proficiency using each of the following software:**

	Never use	Can perform basic functions	Can perform moderate level functions	Can perform advanced functions
Access				
Angoss				
DAP				
Epi Info				
Excel				
GenStat				
Mathematica				
R				
SAS				
SPLUS				
SPSS				
STATA				
STATISTICA				
SUDAAN				
WPS				
Other (please specify)				

5.3 **Which software packages does your employer require you to use for your current job? Please select all that apply. (Create pull down list)**

    1   Access
    2   Angoss
    3   DAP
    4   Epi Info
    5   Excel
    6   GenStat
    7   Mathematica
    8   R
    9   SAS
   10 SPLUS
   11 SPSS
   12 STATA
   13 STATISTICA
   14 SUDAAN
   15 WPS
   16 Other software packages (please specify): _____

5.4 **How important are each of the following capabilities to the work you perform in your position?**

	Very important	Somewhat important	Neutral	Somewhat unimportant	Not important
Descriptive analyses					
import any data file format					
Interactivity/dynamic linking					
Macro processing					
Mapping					
Statistical modeling					
Visualization					
Other capability (please specify)					

Section 6: Interest in Networking

6.1   Does your program have an interest in using/learning other software as an alternative or in addition to SAS? Please select all that apply (Create pull down list)

    1 Access
    2 Angoss
    3 DAP
    4 Epi Info
    5 Excel
    6 GenStat
    7 Mathematica
    8 R
    9 SPLUS
  10 SPSS
  11 STATA
  12 STATISTICA
  13 SUDAAN
  14 WPS
  15 Other software (please specify): _____
  16 Don't know / Not sure

6.2   Would you be interested in participating in a statistical software users workgroup to learn and/or share your expertise?

    1 Yes
    2 No
    7 Don't know / Not sure