

**APPENDIX A**

**RESEARCH METHODOLOGY**

## **APPENDIX A: RESEARCH METHODOLOGY**

The sections that follow describe the research methodology used for the National Science Foundation Principal Investigator FY 2001 Grant Award Survey and for the National Science Foundation Institutional FY 2001 Grant Award Survey.

### **A. QUESTIONNAIRE DEVELOPMENT**

The initial phase of questionnaire development included two focus groups with NSF representatives who could identify key issues to be included in the two questionnaires. A third focus group with institutional representatives was scheduled for September 2001, however the events of September 11 resulted in a cancellation. Instead institutional representatives were contacted by telephone to discuss key issues to be included in the survey. After draft questionnaires were developed, they were cognitively pretested with PIs and institutional representative, and revisions were made based on the findings from the pretests. The following provides details about the steps that were followed:

<u>Date</u>	<u>Type of Group</u>	<u>Number of Participants</u>
August 8, 2001	NSF Focus Group	12
August 9, 2001	NSF Focus Group	11
October 2001	Institutional Representatives (Telephone interviews)*	4
December 4, 2001	Principal Investigators Cognitive pretest/group discussion	8
January/February 2002	Institutional Representatives Cognitive pretest/individual interviews	4

\*Re-scheduled from the Federal Demonstration Project Group discussion because of September 11, 2001.

## **B. PROCEDURES FOR PRETEST WITH PRINCIPAL INVESTIGATORS**

Eight PIs of a sample of 30 potential respondents participated in the pretest for the Principal Investigator FY 2001 Grant Award Survey. The sample was randomly selected from a total of 156 PIs throughout New Jersey representing a variety of grant types and award sizes. We decided to limit the sample selection to New Jersey because we assumed that MPR's Princeton office in New Jersey would make it easier for the respondents to participate.

Respondents were asked to complete the draft questionnaire and comment on the questions. When respondents had difficulty understanding a question, MPR reworded the question or divided it into parts to make it more understandable. MPR also added some probes to better focus respondents on questions. Because participants voiced concerns about the amount of time it took to complete the questionnaire, the length of the questionnaire was reduced. Also, feedback about the focus of questions was implemented into a revised questionnaire. In particular, the concept "fully enabled" was discussed and rejected by the group. A preferred concept to describe the goals was "ongoing research and educational activities."

The final questionnaire was programmed into a Web format to be conducted as a Computerized Self-Administered Questionnaire (CSAQ). Extensive testing was conducted on the Web questionnaire to insure compatibility with a wide range of different computers and servers that would be accessing the questionnaire.

## **C. SAMPLE APPROACH**

### **1. Principal Investigator Survey**

The universe for the PI survey comprises all 6,180 FY 2001 NSF award grantees. NSF decided to collect data from the universe of PIs instead of a sample to ensure that the most robust information. Since the primary mode of data collection is the World Wide Web, the additional

costs associated with using the universe, instead of a sample, were minimal. In addition, examining the universe eliminates both the additional costs needed to develop a sampling plan and the potential sampling bias associated with sampling plans.

## **2. Institutional Survey**

The universe for the institutional survey comprises all 582 institutions where at least one PI received an NSF award in FY 2001. Each institution in the universe was mailed a questionnaire and afforded the opportunity to participate. However, a sample of 100 institutions was drawn from the universe, based on institutional size and type (for example, private research institution, academic institution), the number of grants received, the type of grants received, and the institution's geographic region.

The sampling design is based on the purpose and analytical objectives of the study. The purpose of this study is to determine the burden of the grant awards on institutions receiving grants from NSF. The analytic objective is to investigate the burden of the grant awards using both institution-level and grant-level measures. Therefore, there is an interest in both the estimate of the proportion of institutions that have a level of burden and the estimate of the average burden per grant for specific types of grants or type of institutions. The sampling design accounts for these two analytical objectives, which indicate somewhat different designs. A stratified random sample of institutions was selected that included an over sampling of institutions with a larger number of grants.

The number grant awards per institution is highly skewed with 40 percent of institutions (233) receiving one award and 16 institutions receiving in aggregate more than 1,500 awards. To account for both analytical objectives, sampling strata were developed that permit an over sample of the institutions with the greatest number of awards, and allocate a sufficient number of sampled institutions to the strata of the institutions with one or only a few awards. Within each

stratum, a sample of institutions with equal probability and without replacement were selected. A larger initial sample was selected and then partitioned into random sub samples called waves. Some waves were released for data collection at the start of the fielding period and others were held in reserve. Three reserve waves were released because of institutions on the original data base that NSF determined to be ineligible. At the end of the data collection, sampling weights were applied to the final data file based on the inverse of the selection probabilities and computed adjustment to compensate for non-response among sampled institutions.

The following provides a description of the universe and the sampling frame, the sampling design, sample allocation, and expected precision from the sample.

#### **a. Description of the Universe**

The target population and the universe for this study is a listing of current recipients of grant awards by NSF. The population includes 582 institutions receiving a total of 6,180 grants, an average of 10.6 grants per institution. In total, 440 institutions (75 percent) received 9 or fewer grants with 233 (40 percent) institutions receiving one award and 85 (15 percent) institutions receiving two awards. On the other hand, 16 institutions (2.7 percent) accounted for 1,523 (25 percent) of the grant awards.

### **3. Sampling Design and Allocation**

The analytical objectives indicate two variations on a stratified sampling design. For institution-level survey estimates, the sampling design that can offer smallest sampling variance is an equal probability sample of all institutions. For grant-level measures of the burden of the grant awards, the sampling design offering smallest sampling variance has the institutions selected with probability proportional to the number of grant awards. The sampling approach that offered a reasonable comprise between these two designs.

A classical process to develop sampling strata that account for the “size” (in this case, the number of awards at the institution) of a sampling unit is to use the square root of the size factor and partition a list of sampling units into strata so that the aggregate value of the square root of the size factor for institutions in each strata is equal (see Cochran 1997 for the “cumulative square root of f rule”).<sup>1</sup> Using the cumulative square root of f rule, estimates of totals (in this situation grant awards) is improved over an equal probability sample of institutions. For example, if 5 sampling strata are desired, the cumulative square root is summed over all units and then divided by 5. This value is used to identify the units that are assigned to each stratum. In developing the strata, there was a slight modification of this procedure to achieve better precision for institution-level estimates.

The proposed sample size is 100 institutions. The precision available from a sample of 100 units is assessed by using an estimate of an institution-level proportion around 0.50. The estimated half-width of a 95 percent confidence interval is 0.098, that is an interval of .402 to .598 (see Table B.1). Using the cumulative square root of the frequency (f) rule, we looked not only at the square root but also the cube root. When the finite population correction is accounted for, using the cumulative square root of f rule, resulted in a half-width of a 95 percent confidence interval of 0.115, whereas using the cumulative cube root of the frequency, resulted in a half-width of a 95 percent confidence interval of 0.100. That is, the use of the cube root can achieve nearly the precision of a simple random sampling of all institutions, but includes over sampling of the institutions with the largest number of grants. Increasing the number of strata beyond 3 had only a slight effect on the precision, and the plan was to use 5 strata for operational ease.

For grant-level estimates, the level of precision is based on the correlation between the

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<sup>1</sup> Cochran, WG (1977) Sampling Techniques. New York: John Wiley & Sons, Inc.

number of grant awards at an institution and the outcome measures. The anticipated precision will be as good and most likely better than will be available for the institution-level estimates.

In summary, for the institution survey there was a stratified random sample of institutions using 5 strata for respondent sample of 100 institutions. The sampling strata were developed to achieve good precision for both institution-level estimates and grant-level estimates.

TABLE B.1  
SAMPLE ALLOCATION AND STRATA FOR INSTITUTION SAMPLE

Strata	Number of Institutions			
	Sample Size	Equal Size Strata	Square Root Algorithm	Cube Root Algorithm
1	20	116	269	197
2	20	116	154	159
3	20	116	79	106
4	20	117	47	70
5	20	117	33	50
Half-Width of 95% Confidence Interval		0.098	0.115	0.100

SOURCE: Mathematica computations.

NOTE: Half-width of 95% confidence interval =  $1.96 * \sqrt{\text{variance}}$  for a stratified random sample where the variance within a stratum is computed from  $p * (1 - p)$  with  $p = 0.50$ .

## D. DATA COLLECTION

The PI survey was conducted using a mixed-mode format of Web and mail methods and the institution survey was a mail survey. A database containing contact information (telephone numbers and e-mail addresses) for potential respondents was provided to MPR by NSF.

The following provides additional detail of the data collection steps that were taken:

January 2001                    NSF Director Dr. Rita R. Colwell sends PIs e-mail message announcing the survey

January 30, 2002	MPR begins sending PI e-mail invitations with Web site access username and password on a rolling schedule
February 4-19, 2002	MPR sends e-mail reminders to non-responders on a 3 day schedule
February 15, 2002	MPR sends questionnaire mail packets to 778 PIs who have responded to the Web questionnaire.
March 8, 2002	Deadline for data collection

Original PI grants in NSF data file	6,180
PIs with multiple grants randomly selected a single grant for the survey (375) or questionable grant information (12)	5,793
Total completes and partials	5,221
Cases screened out during quality assurance process for criteria such as inconsistent grant award or duration information	232
Total cases used for analysis	4,989

A tracking system was developed to monitor participation. Figure A-1 illustrates the PI participation in the Web mode of the questionnaire. A total of 778 mail packets were sent to insure participation from PIs who may not have had Web access or would prefer to complete the questionnaire on paper.

The institutional survey was a mail only survey that used an e-mail approach to identify the most appropriate institutional participant. The data collection process was as follows:

January 2001	NSF Director Dr. Rita R. Colwell sends institution presidents an e-mail message announcing the two surveys
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January 24, 2002	MPR sends e-mail messages to institution contact people identified on the NSF data file to identify the appropriate person to participate in the survey.
February 15-March 6	Questionnaire mail packets are sent as institutional representatives contact information is identified
March 8-30, 2002	MPR contacts non-responders in the institution sample by phone and e-mail
March 30, 2002	All data collection is completed.

Total institutions with 2001 NSF grant recipients	582
No contact information	60
Total number with contact information	471(total); 105 (sample)
Total questionnaires returned	369 (total); 95 (sample)
Questionnaires acceptable after quality assurance	359 (total); 95 (sample)

## **E. INSTITUTIONAL SURVEY ESTIMATES OF STANDARD ERROR**

As described in Section D, the results from the institution survey are based on a sample, not a census of all institutions. Therefore, the results discussed in the report have standard errors. The estimates of the standard error for the key items included in the analysis are on Table A-1.

## **F. PRINCIPAL INVESTIGATOR SURVEY MEAN CALCULATIONS**

The report includes information about means that are calculated in two different ways. There are means that are calculated for a single question in the PI questionnaire or for a single item of information from the NSF FY 2001 grant data files. In addition, there are means that have been calculated using measures constructed from either two items in the survey data or using a combination of questionnaire items and items from the NSF FY 2001 grant data file. The

means for these constructed variables are calculated by taking the individual PI information for the included items, doing the calculation for each individual PI, and then getting an average. The following describes the information that is based on means calculated from multiple items. Appendix G has the central tendency distributions for these constructed variables.

CONSTRUCTED VARIABLES	CALCULATION AND DATA SOURCE
Option 1: Award Efficiency and Effectiveness Deviation from Requested Award Amount	(FY 2001 Award Request – FY 2001 Award Amount)/Number of FY2001 Grant Award Years (Information from NSF data file)
Option 2: Award Efficient and Effectiveness Percent of Research Being Funded	(FY 2001 Award Amount/(Q3.2 – 100)-FY2001 Award Amount) Divided by 5 Years to annualize (NSF information and survey question)
Option 4: Award Efficient and Effectiveness NFS's Contribution	Q3.3 X Q3.4 Divided by 5 Years to Annualize (Survey questions)
Difference in FY 2001 Award Amount Request and Amount Awarded	FY 2001 Amount Request-FY 2001 Amount Award (NSF data file)
Difference in FY 2001 Duration Request and Duration Award	FY 2001 Duration Request-FY 2001 Duration Award (NSF data file)
Additional Duration Needed	FY 2001 Duration Award + Q3.1 (NSF data file and survey question)

## G. SURVEY MEASUREMENT ERROR

It should be noted that in any survey there are sources of both sampling and non-sampling error. Some examples of sources of survey measurement error are non-response to the survey, skipped questions, context effects, data collection methodology, and question wording. In conducting this study, all efforts possible were taken to minimize survey measurement error.

**TABLE A - 1**  
**INSTITUTIONAL SURVEY - SAMPLE**  
**ESTIMATES OF STANDARD ERROR\***

Variable	Sample Size	Weighted Size	Mean	Standard Error	% Relative SE	Design Effect
Number of 2001 NSF grant awards	95	529	12.1	0.66	5.44	0.081
Number of 2001 NSF grant declines	95	529	31.7	1.77	5.59	0.119
Q.1.3 Total number of the following assigned to grant proposals						
1 Individuals	89	495	5.8	0.39	6.64	0.362
2 Administrative Offices	91	506	1.8	0.13	7.17	0.735
Q.1.4b Average number of hours spent on typical FY 2001 NSF grant proposal	94	524	6.0	0.53	8.86	0.946
Q.2.3 Total number of the following assigned to grant proposal revisions						
1 Individuals	82	452	5.1	0.42	8.18	0.383
2 Administrative Offices	81	443	1.7	0.15	8.84	0.653
Q.2.4b Average number of hours spent on typical FY 2001 NSF grant proposal revision	89	494	2.7	0.29	10.81	1.096
Q.2.5 Hours spent communicating with NSF on revisions to the original proposal	87	481	1.5	0.29	18.95	0.743
Q.3.2 Total number of the following assigned to administer grants						
1 Individuals	90	501	7.8	0.82	10.56	0.439
2 Administrative Offices	90	495	2.4	0.26	10.84	0.382
Q.3.3b Average number of hours spent administering typical FY 2001 NSF grant						
1 First specified administrative office	89	501	20.6	7.11	34.43	1.162
2 Second specified administrative office	58	313	9.7	1.33	13.78	0.974
Q.3.4 Hours spent to complete and submit NSF required reports for typical FY 2001 grant	85	476	6.3	1.11	17.74	1.233
Q.5.1 NSF grants percentage share of all FY 2001 grants	93	522	16.5	1.96	11.90	1.051
Q.5.2 NSF grants percentage share of total dollar amount of all FY 2001 grant awards	94	525	18.1	2.03	11.22	1.052

**Variance Estimation Method: Taylor Series (WOR)**

\* Note: These are the estimates of standard error for the key questions used in the report

**APPENDIX B**

**ANNOTATED QUESTIONNAIRES**

## **APPENDIX B CONTENTS**

- A. NATIONAL SCIENCE FOUNDATION PRINCIPAL INVESTIGATOR  
2001 GRANT AWARD SURVEY
- B. NATIONAL SCIENCE FOUNDATION INSTITUTIONAL SURVEY



# National Science Foundation Principal Investigator 2001 Grant Award Survey

*Conducted for NSF by:*

**MATHEMATICA**  
Policy Research, Inc.

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*An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. The OMB number of this project is 3145-0185.*

#1	Grant Title	
#2	Grant Effective Date	
#3	Requested Amount	Median=\$312,000 Mean=\$436,000 Mode=\$375,000 Range: \$300 - \$15,062,000
#4	Awarded Amount	Median=\$250,000 Mean=\$336,000 Mode=\$300,000 Range: \$300 - \$15,062,000
#5	Amount Change 5% or Greater	47% Same 51% Decrease >5% 2% Increase >5%
#6	Requested Duration	Median=3 Mean=3 Mode=3 Range: 0 - 6
#7	Awarded Duration	Median=3 Mean=3 Mode=3 Range: 0 - 9
#8	Duration Change 1 Year or Greater	88% Same 10% Decrease >1 Year 2% Increase >1 Year

- You will be asked to reference the information listed above throughout this questionnaire. This information is from our database and is specific to the NSF grant you were awarded funding in 2001.
- When a question asks you to think about any of the above information, a notation will be made in the questionnaire. Therefore, it is important to keep this information attached to the rest of the questionnaire.
- **If this is your grant, please check the box and begin the questionnaire. →**
- **If any of this grant information is incorrect, please contact Matt Mishkind at 877-236-4185 or nsfgrantsweb@mathematica-mpr.com before you complete the questionnaire.**
- **You may also complete this questionnaire on the Web: ➔**

Log to  
<http://nsfgrants.mathematica-mpr.com>  
 and enter the following  
 ↓

USERNAME: xxxxxxx

ASSWORD: xxxxxxx



Welcome to our study of 2001 NSF principal investigators.

Thank you for participating in this unique study. We know that your time is valuable and we greatly appreciate your assistance.

As you may remember from the message you received from Dr. Colwell, Director of the National Science Foundation, Mathematica Policy Research, Inc. (MPR) is conducting this study for the National Science Foundation (NSF). To assist in their future planning, NSF is very interested in learning more about NSF grants from the perspective of the principal investigator.

Your participation is critical to the success of the study and to the quality of the information we get about NSF grants. If you have any questions about the background of the study, you can contact Bob Abel at NSF ([nsf-surveys@nsf.gov](mailto:nsf-surveys@nsf.gov)). If you have any questions or require any assistance while you are completing the questionnaire, you may contact Matt Mishkind (877-236-4185 or [nsfgrantsweb@mathematica-mpr.com](mailto:nsfgrantsweb@mathematica-mpr.com)).

## **CONFIDENTIALITY**

All of your responses to the questionnaire are strictly confidential. We will not use your name or email for any other purposes than this study. All information from the study will always be kept in a secure place. Only the MPR researchers directly working on the study will have access to the individually identifiable information. Any reports of the results of this study will be presented in the aggregate.

## **INSTRUCTIONS**

If you haven't already done so, please check the grant-specific information found on the back of the BLUE cover page at the beginning of the questionnaire. Please verify that this is your 2001 NSF grant.

- You will use this information throughout the questionnaire. When your 2001 grant information is needed, you will be reminded to reference this page.

**REMINDER: Please check grant information provided on back of cover page.**

**1.1 Was your 2001 NSF grant [#1 GRANT TITLE] awarded on [#2 GRANT EFFECTIVE DATE] a first-time submission or a revision of a previously declined NSF proposal?**

- *A revised proposal does not refer to changes made in your 2001 NSF grant proposal after the initial review*

**MARK ONE**

- 71% a first time submission  
29% a revision of a previously declined NSF proposal

**1.2 NSF research grants can be classified along a number of different dimensions. Which ONE of the following definitions best describes the research that is funded by this grant?**

- *If your work involves several of these categories please choose the one that is most appropriate*

**THEORETICAL** research can be accomplished with minimal physical resources beyond the investigator's institutional research library, computing capability and office space.

**LABORATORY** research requires an equipped laboratory, for example, research often found in chemistry, biology or engineering university laboratories requiring research and/or testing equipment, plumbing.

**FIELD** research requires fieldwork, specimen collection, sample survey, location of sensors, etc. away from the principal investigator's institution, for example, some science activities in geosciences, biology, social sciences.

**MARK ONE**

- 37% Theoretical Research  
44% Laboratory Research  
18% Field Research

**1.3 Does your 2001 NSF project require the use of a national or international research facility such as access to an accelerator, a light source, a ship, major telescope or supercomputer center?**

- 16% Yes  
83% No

**1.4 In general, would you say that this 2001 NSF grant is funding:**

**MARK ONE**

- 7% A specific product or deliverable  
89% A project that is part of your ongoing body of research and educational activities  
4% Other (*Please Describe*) 

**1.5 For each of the following, how much advice did you get from NSF staff when you were preparing your grant proposal:**

MARK ONE FOR EACH			
	A Great Deal	Some	Not Much
a. The amount of funding .....	12%	27%	17%
b. The duration of the grant proposal .....	11%	21%	16%
c. The substance or focus of the grant.....	7%	25%	19%
	None At All		
		43%	
		51%	
		49%	

↓

**IF ALL 3 MARKED,  
SKIP TO INSTRUCTIONS  
FOR SECTION 2**

**1.6 Based on the advice provided by NSF staff, did you increase, not change, or decrease:**

	Increase	Not Change	Decrease	Not Asked
a. The amount of the award you proposed .....	4%	36%	27%	31%
b. The award duration you proposed .....	3%	58%	6%	31%

As part of the review process, NSF may ask principal investigators to revise their proposal before they are awarded funding. The following questions are about your revised budget and award duration.

**ONLY ANSWER Q2.1 IF #5 AMOUNT CHANGE >5% IS LABELED “YES.” See inside cover.**

**2.1 In your proposal, you requested [#3 REQUESTED AMOUNT] and in your award you received [#4 AWARDED AMOUNT].**

**Overall, how much will this change in the award amount impact your ability to do what you expected to accomplish with this 2001 NSF grant?**

**MARK ONE**

- 1% Can do a great deal more than expected
- 2% Can do somewhat more than expected
- 7% Can do about the same as expected
- 28% Can do somewhat less than expected
- 15% Can do a great deal less than expected
- 1% Don't know
- 47% Not asked

**ONLY ANSWER Q2.2 IF #8 DURATION CHANGE >1 YEAR IS LABELED “YES.” See inside cover.**

**(IF BOTH #5 AMOUNT CHANGE >5% AND #8 DURATION CHANGE >1 YEAR ARE LABELED “NO,” PLEASE SKIP TO SECTION 3).**

**2.2 In your proposal, you requested [#6 REQUESTED DURATION] and in your award you received [#7 AWARDED DURATION].**

Overall, how much will this change in award duration impact your ability to do what you expected to accomplish with this 2001 NSF grant?

**MARK ONE**

- 1% Can do a great deal more than expected
- 1% Can do somewhat more than expected
- 1% Can do about the same as expected
- 4% Can do somewhat less than expected
- 5% Can do a great deal less than expected
- 88% Not asked

**IF YOU RESPONDED AS 6 "CAN'T ANSWER" OR -1 "DON'T KNOW" TO BOTH Q2.1 AND Q2.2, PLEASE SKIP TO SECTION 3.**

**ONLY ANSWER Q2.3 IF YOU PROVIDED A RESPONSE OF 1, 2, 3, 4, OR 5 TO EITHER Q2.1 OR Q2.2.**

**2.3 The following are some possible consequences of the changes in your NSF award funding and/or duration. Will this change have a positive impact, no impact, or negative impact on your ability to ...**

	Positive Impact	No Impact	Negative Impact	Not Applicable	Not Asked
<b>A. Goals and Objectives</b>					
1. Pursue innovative ideas.....	4%	25%	23%	1%	47%
2. Pursue high-risk ideas .....	3%	20%	26%	4%	47%
3. Obtain other funding.....	6%	35%	6%	5%	47%
<b>B. Applications and Outcomes</b>					
4. Disseminate research findings .....	4%	32%	17%	1%	47%
5. Develop instrumentation or other enhancements for the research and education infrastructure .....	2%	17%	20%	13%	47%
6. Develop partnerships with industry, other educational institutions, or national laboratories .....	3%	26%	13%	11%	47%
7. Integrate research activity into your teaching and training .....	4%	27%	18%	4%	47%
8. Nurture connections between research activity and its potential for: health benefits, economic benefits, and national security benefits.....	2%	24%	10%	16%	47%
9. Develop programs with K-12 teachers and/or students.....	1%	23%	7%	22%	47%
10. Improve public understanding of the project.....	3%	31%	11%	9%	47%
<b>C. Process and Team Building</b>					
11. Collaborate with researchers in your area of research.....	5%	21%	26%	1%	47%
12. Broaden participation of under-represented groups in the research activity .....	3%	27%	18%	6%	47%
13. Collaborate with researchers in different areas of research .....	4%	25%	21%	3%	47%
14. Achieve the research objectives within the specified time.....	4%	14%	34%	1%	47%
15. Obtain quality personnel.....	3%	17%	28%	4%	47%
16. Establish mentoring or other research-based education activities.....	3%	23%	21%	5%	47%
<b>D. Research Tools</b>					
17. Access state-of-the-art equipment .....	2%	28%	17%	6%	47%
18. Access facilities .....	2%	34%	10%	6%	47%

**SKIP Q2.4a IF NO POSITIVE ITEMS IN Q2.3**

**2.4a Among the items you marked "Positive Impact," please rank order (write in the number(s)), up to three, those that had the most positive impact.**

#1

#2

#3

**SKIP Q2.4b IF NO NEGATIVE ITEMS IN Q2.3**

**2.4b Among the items you marked "Negative Impact," please rank order (write in the number(s)), up to three, those that had the most negative impact.**

#1

#2

#3

**2.5 Please describe any other impact(s) that resulted from the change in your 2001 NSF award or give more details on any in the list that need further explanation.**

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**The next group of questions is your assessment of how this grant fits into your ongoing body of research and educational activities.**

- Our records indicate that your 2001 NSF grant is for \$[#4 AWARDED AMOUNT] over a period of [#7 AWARDED DURATION] Years. See inside cover.

**3.1 Thinking about the timeframe for your ongoing body of research and educational activities, about how many additional years do you think you would need to accomplish your key goals?**

- DO NOT include the years for the 2001 NSF grant
- Enter "0" for "Do not need any additional years"

Median=2

Mean=3

Mode=2

Range: 0 to 40

**3.2 If you think about your ongoing body of research and educational activities as 100 percent of what you'd like to accomplish in the next five years, about what percent of what you'd like to do will be achieved with your 2001 NSF research grant?**

Median=30

Mean=37

Mode=20

Range: 0 to 100

**Now, speculate on what changes, if any, you would need to accomplish all you would like to in the next five years.**

**3.3 In the next five years, how much additional funding from all sources, if any, would you need to achieve what you would like to with your ongoing body of research and educational activities?**

- Exclude funding you currently have for this NSF grant and from any other funding sources
- Enter "0" for "Do not need any additional funding"

Median=\$500,000

Mean=\$1,149,000

Mode=\$500,000

Range: \$0 to \$300,000,000

**IF YOU DO NOT NEED ADDITIONAL FUNDING OR DON'T KNOW, SKIP TO Q3.6.**

**3.4 What percent of this additional amount do you think is appropriate for NSF to fund?**

Median=70%

Mean=67%

Mode=100%

Range: 0% to 100%

### 3.5 About how many additional grants do you think you would need to get this funding?

Median=2

Mean=2.39

Mode=2

Range: 0 to 32

**ONLY ANSWER Q3.6 IF YOU NEED ADDITIONAL YEARS (Q3.1) AND/OR ADDITIONAL FUNDING (Q3.3).**

**IF YOU RESPONDED “0” OR “DON’T KNOW” TO Q3.1 AND Q3.3, SKIP TO SECTION 4.**

### 3.6 If NSF provided this additional funding and/or duration to support your ongoing research and educational activities, would there be a positive impact, no impact, or a negative impact on each of the following:

		Positive Impact	No Impact	Negative Impact	Not Applicable	Not Asked
<b>A. Goals and Objectives</b>						
1.	Pursue innovative ideas.....	87%	2%	<1%	<1%	10%
2.	Pursue high-risk ideas .....	76%	9%	<1%	4%	10%
3.	Obtain other funding.....	54%	26%	5%	3%	10%
<b>B. Applications and Outcomes</b>						
4.	Disseminate research findings.....	74%	14%	<1%	1%	10%
5.	Develop instrumentation or other enhancements for the research and education infrastructure .....	61%	16%	<1%	13%	10%
6.	Develop partnerships with industry, other educational institutions, or national laboratories .....	62%	19%	<1%	8%	10%
7.	Integrate research activity into your teaching and training .....	73%	13%	<1%	2%	10%
8.	Nurture connections between research activity and its potential for: health benefits, economic benefits, and national security benefits.....	48%	24%	<1%	16%	10%
9.	Develop programs with K-12 teachers and/or students .....	32%	36%	<1%	20%	10%
10.	Improve public understanding of the project.....	58%	25%	<1%	5%	10%
<b>C. Process and Team Building</b>						
11.	Collaborate with researchers in your area of research.....	83%	6%	<1%	<1%	10%
12.	Broaden participation of under-represented groups in the research activity .....	62%	23%	<1%	3%	10%
13.	Collaborate with researchers in different areas of research .....	76%	12%	<1%	2%	10%
14.	Achieve the research objectives within the specified time.....	83%	6%	<1%	1%	10%
15.	Obtain quality personnel.....	76%	9%	<1%	3%	10%
16.	Establish mentoring or other research-based education activities.....	71%	14%	<1%	3%	10%
<b>D. Research Tools</b>						
17.	Access state-of-the-art equipment .....	60%	22%	<1%	7%	10%
18.	Access facilities.....	49%	32%	<1%	8%	10%

**SKIP Q3.7a IF NO POSITIVE ITEMS IN Q3.6**

### 3.7a Among the items you marked “Positive Impact,” please rank order (write in the number(s)), up to three, those that had the most positive impact.

#1 \_\_\_\_\_

#2 \_\_\_\_\_

#3 \_\_\_\_\_

**SKIP Q3.7b IF NO NEGATIVE ITEMS IN Q3.6**

### 3.7b Among the items you marked “Negative Impact,” please rank order (write in the number(s)), up to three, those that had the most negative impact.

#1 \_\_\_\_\_

#2 \_\_\_\_\_

#3 \_\_\_\_\_

- 3.8 Please describe any other impact(s) that would result if NSF provided you what you need for what you want to accomplish, or give more details on any in the list that needs further explanation:**
- 
- 
- 
- 
- 
- 
- 
- 

- 3.9 If you received this additional funding and/or duration from NSF that you need for your ongoing body of research and educational activities, how likely would you increase each of the following?**

MARK ONE FOR EACH							
	Very Likely	Somewhat Likely	Neither Likely Nor Unlikely	Somewhat Unlikely	Very Unlikely	Not Applicable	Not Asked
<b>Personnel</b>							
1. The number and/or months of senior personnel .....	29%	21%	13%	7%	13%	4%	10%
2. The number and/or months of post doctoral associates ....	43%	22%	7%	4%	5%	7%	10%
3. The number and/or months of technicians.....	15%	14%	14%	7%	16%	19%	10%
4. The number and/or months of programmers .....	7%	11%	14%	6%	19%	24%	10%
5. The number and/or months of graduate students .....	70%	11%	2%	1%	1%	3%	10%
6. The number and/or months of undergraduate students.....	45%	26%	7%	3%	3%	4%	10%
<b>Equipment5</b>							
7. The number of equipment purchases .....	33%	31%	11%	4%	5%	5%	10%
8. The quality of equipment purchases .....	28%	22%	20%	5%	7%	7%	10%
<b>Travel</b>							
9. The number of trips.....	29%	32%	18%	5%	4%	1%	10%
10. The cost per trip.....	3%	8%	36%	11%	29%	2%	10%
<b>Experiments</b>							
11. The number of experiments, tests, subjects .....	49%	14%	5%	1%	1%	20%	10%
12. The size of the experiments or tests .....	30%	17%	14%	3%	3%	22%	10%
13. The quality of the experiments or tests .....	36%	13%	13%	2%	4%	20%	10%
<b>Other Direct Costs</b>							
14. Participant support.....	21%	18%	19%	4%	10%	16%	10%
15. Consultant services.....	6%	10%	19%	7%	23%	22%	10%
16. Computer/Publication costs .....	16%	28%	21%	7%	11%	5%	10%
17. Other (Please Specify) ↗ 27% gave a response							

- 3.10 Among the items you are “Very Likely” to increase, rank order (write in the numbers), up to three, those that would have the most impact on what you want to accomplish.**

#1

#2

#3

**3.11 And, if you received this additional funding and/or duration from NSF that you need for your ongoing research and educational activities, would your ability to do each of the following be:**

	MARK ONE FOR EACH						
	Increased A Great Deal	Increased Somewhat	About the Same	Decreased Somewhat	Decreased A Great Deal	Not Applicable	Not Asked
a. Recruit post doctoral associates.....	47%	23%	8%	<1%	<1%	9%	10%
b. Recruit graduate students .....	56%	23%	6%	<1%	<1%	4%	10%
c. Recruit undergraduate students .....	27%	31%	24%	<1%	<1%	6%	10%
d. Provide adequate support for a graduate student to shorten time to degree.....	29%	26%	25%	<1%	<1%	8%	10%
e. Provide stability for technicians .....	17%	15%	13%	<1%	<1%	42%	10%
f. Provide stability for programmers.....	8%	9%	14%	<1%	<1%	57%	10%
g. Conduct more experiments, tests or subjects.....	42%	22%	5%	<1%	<1%	19%	10%
h. Have higher-quality experiments or tests ...	31%	22%	16%	<1%	<1%	20%	10%
i. Duration of experiments .....	17%	19%	24%	1%	1%	26%	10%
j. Other ( <i>Please Specify</i> ) ↗	29% gave a response						

**3.12 Thinking about all the different aspects of what you would like to accomplish, which of the following would have the greatest impact on your ongoing body of research and educational activities:**

**MARK ONE**

- 54% More funding
- 35% Longer duration
- 10% Not asked

The following are questions about NSF funding and your general field of research.

**4.1 In your opinion, if NSF increased the funding and the duration of the awards in your field of research, how likely would these changes ...?**

	MARK ONE FOR EACH					
	Very Likely	Somewhat Likely	Neither Likely Nor Unlikely	Somewhat Unlikely	Very Unlikely	Not Applicable

- a. Widen the focus of the research in your field ..... 63% 28% 7% 1% 1% <1%
- b. Increase the number of proposals to NSF with innovative ideas ..... 46% 35% 13% 3% 1% 1%
- c. Increase the number of proposals to NSF with high-risk ideas ..... 37% 38% 17% 4% 2% 2%
- d. Attract more established researchers to apply for NSF funding ..... 37% 31% 23% 4% 2% 2%
- e. Decrease the amount of time to answer research questions ..... 31% 32% 20% 6% 6% 4%
- f. Attract more graduate students ..... 65% 26% 6% <1% <1% 2%
- g. Attract better graduate students ..... 62% 25% 8% 1% <1% 2%
- h. Improve access to facilities and databases ..... 36% 34% 20% 1% 1% 7%
- i. Decrease interruptions in funding ..... 70% 23% 4% <1% <1% 1%

**4.2 If NSF had more money to award each year, please rank in descending order of importance from (1) most important to (3) least important, the following possible actions for awards in your area of research:**

**RANK ORDER**

1<sup>st</sup> 2<sup>nd</sup> 3<sup>rd</sup>

- |                          |   |     |     |     |
|--------------------------|---|-----|-----|-----|
| <input type="checkbox"/> | Increase only the amount of funding per award .....     | 40% | 36% | 23% |
| <input type="checkbox"/> | Increase only the length of time per award .....        | 24% | 37% | 38% |
| <input type="checkbox"/> | Increase only the total number of awards per year ..... | 36% | 26% | 37% |

This section asks about your experience preparing this NSF grant and about some other research experiences.

**5.1 Thinking about the proposal you submitted to NSF for this grant, what is your best estimate of the total hours of preparation for submitting this proposal?**

In determining your estimate, please make sure you:

- *consider all of your own time for writing the proposal, preparing the budget, completing forms, and consulting with others about your proposal*
- *consider the time other people such as graduate assistants, secretaries, and budget administrators put into the preparation of this proposal*
- ***DO NOT include any institutional personnel who might review or internally process your proposal such as staff from the sponsored research office***

Median=100

Mean=157

Mode=100

Range: 1 to 9,000

**5.2 What's your best estimate of the percent of hours that were devoted to the intellectual content of the proposal and the percent devoted to the mechanics of proposal preparation?**

- *Your total must equal 100%*

Preparation of intellectual content .....

Median=75% Mean=68% Mode=80% Range: 5% - 100%

Mechanics of proposal preparation.....

Median=25% Mean=32% Mode=20% Range: 0% - 100%

**5.3 How helpful is having an NSF research grant in obtaining funding from other sources?**

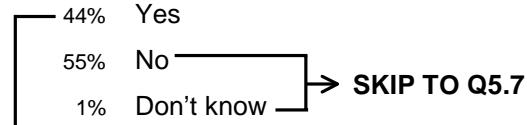
**MARK ONE**

- 39% Very helpful  
33% Somewhat helpful  
25% Neither helpful nor unhelpful  
2% Somewhat unhelpful  
<1% Very unhelpful

Now, think about any other funding you may be getting for your ongoing body of research and educational activities.

5.4 Right now, are you getting NSF funding for any other projects for your ongoing body of research and educational activities?

- This includes funding from grants on which you are a collaborator or subcontractor
- DO NOT include the 2001 NSF grant identified for this survey



5.5 Not including the 2001 NSF grant identified for this survey, what is the total number of current NSF grants funding your ongoing body of research and educational activities?

Median=1      Mean=2      Mode=1      Range: 0 to 236

5.6 What is the total amount of annual funding you currently have from these other NSF grants?

- DO NOT include the 2001 NSF grant identified for this survey

Median=\$100,000      Mean=\$207,000      Mode=\$100,000      Range: \$0 to \$30,000,000

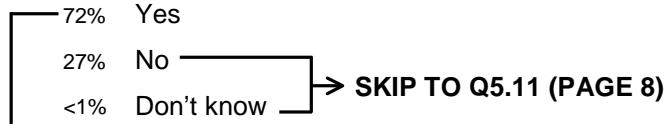
5.7 Did you divide your ongoing body of research and educational activities into several proposals and submit them to NSF?

38% Yes  
62% No

Now, think about any non-NSF funding you are getting for your ongoing body of research and educational activities.

5.8 In addition to your NSF funding, do you currently have other funding for your ongoing body of research and educational activities?

- This may be funding from sources such as your institution, another federal agency, a state agency, a non-profit foundation, or a for-profit company or organization



5.9 What is the total number of current non-NSF funding sources for your ongoing body of research and educational activities?

Median=2      Mean=2      Mode=1      Range: 0 to 420

**5.10 And, what is the total amount of annual funding you have from non-NSF sources?**

Median=\$100,000      Mean=\$199,000      Mode=\$100,000      Range: \$0 to \$10,000,000

The next set of questions are about your research activities and professional duties.

**5.11 What's your best estimate of the percent of your time spent conducting research in each of the following ways:**

- *Your total must equal 100%*

Work as part of a team with researchers from other disciplines .....

Median=10% Mean=14% Mode=0% Range: 0% - 100%

Work as part of a team including other senior investigators in the same discipline .....

Median=20% Mean=25% Mode=20% Range: 0% - 100%

Work individually with students and post doctoral assistants.....

Median=55% Mean=54% Mode=50% Range: 0% - 100%

Other (*Please Specify*).  
\_\_\_\_\_

Median=0% Mean=6% Mode=0% Range: 0% - 100%

**5.12 How many peer-reviewed articles have you published during the past 5 years where you have been the primary author?**

Median=9      Mean=13      Mode=5      Range: 0 to 500

For the following question, please think about your current experience.

**5.13 How many people in the following categories work with you on your current research projects?**

**Type of Institution**

Undergraduate Students                          4% Non-Academic

Median=2    Mean=2    Mode=1    Range: 0 - 50                          5% Non-PhD

18% Other PhD

Graduate Students                                  25% NSF Funding Top 20

26% NSF Funding Top 21-50

Median=3    Mean=4    Mode=2    Range: 0 - 300                          22% NSF Funding Top 51-100

Post-doctoral fellows

Median=1    Mean=1    Mode=0    Range: 0 - 100

- 5.14 Questionnaires by their nature are limited. Please write in any other comments you have about your experiences with the NSF grant process that you think are important.**

**Thank you very much for completing this questionnaire! Please return in the postage-paid envelope.**



# National Science Foundation Institutional Survey

**Sample Institution**

*Conducted for NSF by:*

**MATHEMATICA**  
Policy Research, Inc.

**TO:**

Matt J Mishkind J  
ject J Director J  
Mathematica J licy J Research, J Inc. J  
.O.J B J xJ2393 J  
inceton, NJ 08543 J

Contact J Matt J Mishkind J at J  
877-236-4185 J

E-mail: J nsfgrants@mathematica-mpr.com J

*An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. The OMB number of this project is 3145-0185.*

|||||

Thank you for participating in this study of institutional representatives who are responsible for applying for and administering National Science Foundation (NSF) grants. We know that your time is valuable and we greatly appreciate your assistance.

Dr. Colwell, Director of the National Science Foundation, sent a letter informing your institution about this study. Mathematica Policy Research, Inc. (MPR) is conducting this study for the National Science Foundation (NSF). To assist in their future planning, NSF is very interested in learning more about NSF grants from the perspective of the institutional representatives responsible for NSF grants.

Your participation is critical to the success of the study and to the quality of the information we get about NSF grants. If you have any questions about the background of the study you can contact Bob Abel at NSF ([sf-survey@nsf.gov](mailto:sf-survey@nsf.gov)). If you have any questions or require any assistance while you are completing the questionnaire, you may contact Matt Mishkind at MPR (877-236-4185/[nsfgrants@mathematica-mpr.com](mailto:nsfgrants@mathematica-mpr.com)).

## **CONFIDENTIALITY**

All of your responses to the questionnaire are strictly confidential. We will not use your name or email for any other purposes than this study. All information from the study will be kept in a secure place. Only the MPR researchers directly working on the study will have access to this information. Any reports of the results of this study will be presented in the aggregate.

## **INSTRUCTIONS**

As you answer some of these questions, you will focus on the NSF FY 2001 grant(s) awarded to your institution. It will include questions about the NSF proposals submitted by your institution and the NSF grants administered by your institution. For your convenience, a list of these grants is enclosed.

The process of applying for and administering NSF grants may vary from institution to institution. The purpose of this questionnaire is to get a general assessment of the resources your institution uses for this process. Please make sure the most informed person at your institution completes each section of the questionnaire. For some institutions, multiple people may need to respond.

Number of 2001 NSF grant awards      Median=3      Mean=12      Mode=1

Number of 2001 NSF grant declines      Median=7      Mean=32      Mode=1

The following questions focus on the proposal process at your institution.

**1.1 Does your institution have a formal, standardized process that is followed to submit grant proposals?**

- *This is only your institution's process for grant proposals, it does not refer to others such as NSF FastLane*

98% Yes

2% No

**1.2 Are there specific individuals or administrative offices assigned to work with grant proposals?**

- *Do not include principal investigators*

99% Yes  
1% No → SKIP TO Q1.4a

**1.3 What is the total number of each of the following assigned to grant proposals:**

|\_\_\_\_\_| INDIVIDUALS Median=4 Mean=6 Mode=3

|\_\_\_\_\_| ADMINISTRATIVE OFFICES Median=1 Mean=2 Mode=1

**1.4a In the grid below, please identify, up to five, the key administrative offices at your institution involved in the proposal process for grants.**

- *Do not include individual academic departments or research centers*

**1.4b For each office, please give your best estimate of the average number of hours individuals in that office spent on a typical FY 2001 NSF grant proposal.**

Administrative Office	Average Number of Hours Per NSF Grant Proposal		
	Median=4	Mean=6	Mode=1
	Median=2	Mean=4	Mode=1
	Median=1	Mean=2	Mode=1
	Median=3	Mean=10	Mode=1
	Median=1	Mean=2	Mode=1

The following questions are about the process of negotiating grant proposal revisions.

**2.1 Does your institution have a formal, standardized process that is followed to negotiate grant proposal revisions?**

72% Yes

28% No

**2.2 Are there specific individuals or administrative offices assigned to work with grant proposal revisions?**

- *Do not include principal investigators*

87% Yes

14% No → SKIP TO Q2.4a

**2.3 What is the total number of each of the following assigned to grant proposal revisions:**

|\_\_\_\_\_| INDIVIDUALS Median=3 Mean=5 Mode=3

|\_\_\_\_\_| ADMINISTRATIVE OFFICES Median=1 Mean=2 Mode=1

**2.4a In the grid below, please identify, up to five, the key administrative offices at your institution involved in the proposal revision process for grants.**

- *Do not include individual academic departments or research centers*

**2.4b For each office, please give your best estimate of the average number of hours individuals in that office spent on a typical FY 2001 NSF grant proposal revision.**

Administrative Office	Average Number of Hours Per NSF Grant Proposal Revision		
	Median=2	Mean=3	Mode=1
	Median=1	Mean=2	Mode=1
	Median=1	Mean=1	Mode=1
	Median=1	Mean=3	Mode=1
	Median=0	Mean=<1	Mode=1

**2.5 For a typical NSF grant that your institution is awarded, approximately how many hours are spent communicating directly with NSF on revisions to the original proposal?**

- *Do not include principal investigator hours*

|\_\_\_\_\_| AVERAGE NUMBER OF HOURS PER NSF GRANT

Median=1 Mean=2 Mode=1

After a grant is awarded, institutions are responsible for administering the grant and providing additional oversight. For the following questions, please think about grant administration.

**3.1 Are there specific individuals or administrative offices assigned to administer grant awards?**

- 97% Yes  
3% No → **SKIP TO Q3.3a**

**3.2 What is the total number of each of the following assigned to administer grants:**

- *Do not include principal investigators*

|\_\_\_\_\_| INDIVIDUALS Median=4 Mean=8 Mode=3

|\_\_\_\_\_| ADMINISTRATIVE OFFICES Median=2 Mean=2 Mode=2

**3.3a In the grid below, please identify, up to five, the key administrative offices at your institution involved in administering grant awards.**

- *Do not include individual academic departments or research centers*

**3.3b For each office, please give your best estimate of the average number of hours individuals in that office spent to administer a typical FY 2001 NSF grant award.**

Administrative Office	Average Number of Hours Per NSF Grant Administration		
	Median=8	Mean=21	Mode=5
	Median=5	Mean=10	Mode=1
	Median=4	Mean=11	Mode=1
	Median=2	Mean=5	Mode=1
	Median=10	Mean=7	Mode=<1

**3.4 Approximately how many hours are spent to complete and submit NSF required reports for a typical FY 2001 NSF grant?**

|\_\_\_\_\_|\_\_\_\_\_| AVERAGE NUMBER OF HOURS PER NSF GRANT

Median=3 Mean=6 Mode=2

NSF is considering increasing the amount and duration available for grants. Think about how these potential changes would impact how your institution applies for and administers NSF grants.

- 4.1 If NSF had more money to award each year, please rank from most important (1) to least important (3), the following possible actions for awards to your institution.**

MARK ONE

**Ranking**

1	2	3	
44%	38%	13%	Increase only the amount of funding per award
9%	23%	62%	Increase only the duration per award
50%	30%	17%	Increase only the total number of awards per year

- 4.2 Overall, if NSF made each of the following changes, would it increase, decrease, or not make any difference in the administrative time your institution uses to manage all aspects of NSF awards?**

	Increase Time Needed	Decrease Time Needed	No Difference in Time Needed
--	----------------------	----------------------	------------------------------

- a. Increasing the amount of funding for NSF awards ..... 12%      7%      81%  
b. Increasing the duration of NSF awards..... 42%      24%      33%  
c. Increasing the total number of NSF awards..... 86%      --%      14%

- 4.3 In your opinion, what, if any, would be the 2 or 3 most significant changes for your institution if NSF increased the average dollar amount for each grant award?**

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- 4.4 Now, what, if any, would be the 2 or 3 most significant changes for your institution if NSF increased the average duration for each grant award?**

---

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- 4.5 Please outline any suggestions you have for NSF changes that would result in a reduction of the amount of time and resources used by your institution to manage NSF grants.**

---

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The following questions will provide an overview of the grants managed by your institution.

**5.1 Thinking about all the grant awards managed by your office in FY 2001, approximately what percent is for NSF grants?**

|\_\_\_\_\_|\_\_\_\_\_| PERCENT      Median=10%    Mean=16%    Mode=10%

**5.2 And, approximately what percent of the total dollar amount of all grant awards managed by your office in FY 2001, is for NSF grants?**

|\_\_\_\_\_|\_\_\_\_\_| PERCENT      Median=12%    Mean=18%    Mode=1%

**Questionnaires by their nature are sometimes limited. Please write in any other comments you have about your institution's experiences with the NSF grant process.**

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**Thank you very much for completing this questionnaire. Please use the enclosed postage-paid envelope to return it to: Matt Mishkind, Mathematica Policy Research, Inc., P.O. Box 2393, Princeton, NJ 08543.**

**Type of Institution**

- |     |                        |
|-----|------------------------|
| 11% | Non-Academic           |
| 28% | Non-PhD                |
| 44% | Other PhD              |
| 5%  | NSF Funding Top 20     |
| 3%  | NSF Funding Top 21-50  |
| 9%  | NSF Funding Top 51-100 |

**APPENDIX C**

**NONSAMPLE INSTITUTIONAL SURVEY INFORMATION**

## APPENDIX C

### NONSAMPLE INSTITUTION SURVEY RESULTS

This section of the appendix provides a general overview of the results on the completed questionnaires from the 264 institutional representatives who were not selected as part of the scientific sample of institutions described in Appendix A. These results can be categorized as a convenience sample rather than a scientific sample. The results of the scientific institution sample discussed in the report text can be projected on the population of all FY 2001 institutions who had PIs that received NSF grants; the results from this convenience sample describes the responses from these 264 institutional representatives.

The results from these nonsample institutions follows in two forms: (1) an annotated questionnaire with the responses and (2) tables that have the percentages of responses from the open-ended questions. It should be noted that in Appendix G there is a table with the central tendency distributions for the nonsample institutions.



# National Science Foundation Institutional Survey

**Nonsample Institution**

*Conducted for NSF by:*

**MATHEMATICA**  
Policy Research, Inc.

**TO:**

Matt J Mishkind J  
ject J Director J  
Mathematica J licy J Research, J Inc. J  
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inceton, NJ 08543 J

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877-236-4185 J

E-mail: J nsfgrants@mathematica-mpr.com J

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Number of 2001 NSF grant awards      Median=2      Mean=10      Mode=1

Number of 2001 NSF grant declines      Median=9      Mean=27      Mode=1

The following questions focus on the proposal process at your institution.

**1.1 Does your institution have a formal, standardized process that is followed to submit grant proposals?**

- *This is only your institution's process for grant proposals, it does not refer to others such as NSF FastLane*

94% Yes

5% No

**1.2 Are there specific individuals or administrative offices assigned to work with grant proposals?**

- *Do not include principal investigators*

96% Yes  
3% No → SKIP TO Q1.4a

**1.3 What is the total number of each of the following assigned to grant proposals:**

|\_\_\_\_\_| INDIVIDUALS Median=3 Mean=5 Mode=2

|\_\_\_\_\_| ADMINISTRATIVE OFFICES Median=1 Mean=2 Mode=1

**1.4a In the grid below, please identify, up to five, the key administrative offices at your institution involved in the proposal process for grants.**

- *Do not include individual academic departments or research centers*

**1.4b For each office, please give your best estimate of the average number of hours individuals in that office spent on a typical FY 2001 NSF grant proposal.**

Administrative Office	Average Number of Hours Per NSF Grant Proposal		
	Median=4	Mean=8	Mode=2
	Median=2	Mean=4	Mode=1
	Median=1	Mean=3	Mode=1
	Median=1	Mean=4	Mode=1
	Median=2	Mean=7	Mode=1

The following questions are about the process of negotiating grant proposal revisions.

**2.1 Does your institution have a formal, standardized process that is followed to negotiate grant proposal revisions?**

65% Yes

34% No

**2.2 Are there specific individuals or administrative offices assigned to work with grant proposal revisions?**

- *Do not include principal investigators*

85% Yes

14% No → SKIP TO Q2.4a

**2.3 What is the total number of each of the following assigned to grant proposal revisions:**

|\_\_\_\_\_| INDIVIDUALS Median=3 Mean=4 Mode=2

|\_\_\_\_\_| ADMINISTRATIVE OFFICES Median=1 Mean=2 Mode=1

**2.4a In the grid below, please identify, up to five, the key administrative offices at your institution involved in the proposal revision process for grants.**

- *Do not include individual academic departments or research centers*

**2.4b For each office, please give your best estimate of the average number of hours individuals in that office spent on a typical FY 2001 NSF grant proposal revision.**

Administrative Office	Average Number of Hours Per NSF Grant Proposal Revision		
	Median=1	Mean=3	Mode=1
	Median=1	Mean=2	Mode=1
	Median=1	Mean=2	Mode=1
	Median=2	Mean=5	Mode=1
	Median=7	Mean=7	Mode=*

\*No value calculated

**2.5 For a typical NSF grant that your institution is awarded, approximately how many hours are spent communicating directly with NSF on revisions to the original proposal?**

- *Do not include principal investigator hours*

|\_\_\_\_\_| AVERAGE NUMBER OF HOURS PER NSF GRANT

Median=1 Mean=2 Mode=1

After a grant is awarded, institutions are responsible for administering the grant and providing additional oversight. For the following questions, please think about grant administration.

**3.1 Are there specific individuals or administrative offices assigned to administer grant awards?**

- 96% Yes  
3% No → **SKIP TO Q3.3a**

**3.2 What is the total number of each of the following assigned to administer grants:**

- *Do not include principal investigators*

|\_\_\_\_\_| INDIVIDUALS Median=3 Mean=6 Mode=2

|\_\_\_\_\_| ADMINISTRATIVE OFFICES Median=2 Mean=2 Mode=2

**3.3a In the grid below, please identify, up to five, the key administrative offices at your institution involved in administering grant awards.**

- *Do not include individual academic departments or research centers*

**3.3b For each office, please give your best estimate of the average number of hours individuals in that office spent to administer a typical FY 2001 NSF grant award.**

Administrative Office	Average Number of Hours Per NSF Grant Administration		
	Median=8	Mean=18	Mode=2
	Median=5	Mean=16	Mode=1
	Median=6	Mean=14	Mode=1
	Median=6	Mean=10	Mode=1
	Median=9	Mean=13	Mode=*

\*No value calculated

**3.4 Approximately how many hours are spent to complete and submit NSF required reports for a typical FY 2001 NSF grant?**

|\_\_\_\_\_|\_\_\_\_\_| AVERAGE NUMBER OF HOURS PER NSF GRANT

Median=4 Mean=8 Mode=2

NSF is considering increasing the amount and duration available for grants. Think about how these potential changes would impact how your institution applies for and administers NSF grants.

- 4.1 If NSF had more money to award each year, please rank from most important (1) to least important (3), the following possible actions for awards to your institution.**

MARK ONE

**Ranking**

1	2	3	
36%	39%	12%	Increase only the amount of funding per award
6%	28%	52%	Increase only the duration per award
46%	20%	21%	Increase only the total number of awards per year

- 4.2 Overall, if NSF made each of the following changes, would it increase, decrease, or not make any difference in the administrative time your institution uses to manage all aspects of NSF awards?**

	Increase Time Needed	Decrease Time Needed	No Difference in Time Needed
--	----------------------	----------------------	------------------------------

- a. Increasing the amount of funding for NSF awards ..... 17%      5%      77%
- b. Increasing the duration of NSF awards..... 41%      20%      38%
- c. Increasing the total number of NSF awards..... 85%      1%      14%

- 4.3 In your opinion, what, if any, would be the 2 or 3 most significant changes for your institution if NSF increased the average dollar amount for each grant award?**

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- 4.4 Now, what, if any, would be the 2 or 3 most significant changes for your institution if NSF increased the average duration for each grant award?**

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- 4.5 Please outline any suggestions you have for NSF changes that would result in a reduction of the amount of time and resources used by your institution to manage NSF grants.**

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The following questions will provide an overview of the grants managed by your institution.

**5.1 Thinking about all the grant awards managed by your office in FY 2001, approximately what percent is for NSF grants?**

|\_\_\_\_\_|\_\_\_\_\_| PERCENT      Median=10%    Mean=16%    Mode=10%

**5.2 And, approximately what percent of the total dollar amount of all grant awards managed by your office in FY 2001, is for NSF grants?**

|\_\_\_\_\_|\_\_\_\_\_| PERCENT      Median=11%    Mean=18%    Mode=10%

**Questionnaires by their nature are sometimes limited. Please write in any other comments you have about your institution's experiences with the NSF grant process.**

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**Thank you very much for completing this questionnaire. Please use the enclosed postage-paid envelope to return it to: Matt Mishkind, Mathematica Policy Research, Inc., P.O. Box 2393, Princeton, NJ 08543.**

**Type of Institution**

- |     |                        |
|-----|------------------------|
| 20% | Non-Academic           |
| 30% | Non-PhD                |
| 34% | Other PhD              |
| 2%  | NSF Funding Top 20     |
| 5%  | NSF Funding Top 21-50  |
| 9%  | NSF Funding Top 51-100 |

**TABLE C-1**  
**NONSAMPLE INSTITUTION SURVEY**  
**CHANGES IF NSF INCREASED THE AVERAGE DURATION PER GRANT**

	Total Responses (415)
Grant Process	39
General comments (21)	
Increase time and effort (11)	
Decrease time and effort (7)	
Research Changes	15
Improved quality/efficiency	
Award Duration Improvements	
More stable funding; fewer no-cost extensions	12
Staffing Changes	16
General comments (5)	
More student involvement (4)	
Positive PI impact (6)	
No Changes	10
No Comment/No Response	8
<b>TOTAL</b>	<b>100</b>

**TABLE C-2**  
**NONSAMPLE INSTITUTION SURVEY**  
**CHANGES IF NSF INCREASED THE AVERAGE DOLLAR AWARD PER GRANT**

	Total Responses (438)
Grant Process	31
General comments (14)	
Increase time and effort (7)	
Decrease time and effort (5)	
Increase number of applications (4)	
Research Changes	26
More conducted, improved quality	
Staffing Changes	21
General comments (5)	
More student involvement (12)	
More faculty involvement (4)	
Award Amount	
More stable funding; more budget flexibility	7
No Changes	9
No Comment/No Response	6
<b>TOTAL</b>	<b>100</b>

**TABLE C-3**  
**NONSAMPLE INSTITUTION SURVEY**  
**SUGGESTIONS FOR NSF CHANGES TO REDUCE**  
**INSTITUTION TIME AND RESOURCES**

	Total Responses (329)
Grant Process	50
General comments (22)	
Reduce budget revisions, requests (3)	
Comments on FastLane improvements (5)	
Positive experience with FastLane (20)	
General Comments on Award Amount and Duration	8
No Suggestions	6
Experience with NSF Staff	4
No Comments/No Response	32
<b>TOTAL</b>	<b>100</b>

**TABLE C-4**  
**NONSAMPLE INSTITUTION SURVEY**  
**OTHER COMMENTS ON THE NSF GRANT PROCESS**

	Total Responses (313)
NSF Staff	5
- Positive experiences (3)	
- Other comments (2)	
Technology/Fast Lane	19
Level of Effort for Grant Process	21
Award Duration and Amount	*
Other Comments	7
No Comments	47
<b>TOTAL</b>	<b>99</b>

\*Less than 1%

**APPENDIX D**

**VERBATIM RESPONSE CODING FRAME**

## **APPENDIX D CONTENTS**

- A. PRINCIPAL INVESTIGATOR
- B. INSTITUTION: SAMPLE AND NONSAMPLE

**PRINCIPAL INVESTIGATOR SURVEY - VERBATIM RESPONSE  
CODING FRAME**

**Q.2.5 Please describe any other impact(s) that resulted from the change in your 2001 NSF award or give more details on any in the list that need further explanation.**

**A. Goals and Objectives**

- 101. Reduced project scope
- 102. Reduced data quality
- 103. Reduced lab analysis
- 104. Reduced field work
- 105. Delayed start of project
- 106. Slower rate of project progress
- 107. Elimination of follow-on work
- 108. Possible project termination
- 109. Increased ability to travel
- 110. Increased project scope
- 111. Increased research efforts
- 112. Increased rate of project progress
- 113. Reduced time/rushed results
- 114. Reduced duration of research
- 115. Reduction in high-risk projects

**B. Applications and Outcomes**

No other impacts have been identified that differed from those already listed in section 2.3B of the survey.

**C. Process and Team Building**

- 301. Ability to recruit/retain staff
- 302. Staff eliminated
- 303. Salaries reduced
- 304. Advisor involvement curtailed
- 305. Team morale harmed
- 306. Travel reduced
- 307. Increased time spent on seeking funding rather than research
- 308. Increased time spent on other projects to generate income
- 309. Project continuity jeopardized
- 310. Training curtailed
- 311. Increased ability to concentrate on project/research
- 312. Enabled to develop more effective international collaborations
- 313. Eliminated collaboration with other scientists
- 314. Enabled to hire more students (under grads, minority)
- 315. Increased community interaction (teachers, schools)

**D. Research Tools**

- 401. Ability to purchase supplies and equipment
- 402. Limited funding to cover emergencies/equipment repairs
- 403. General increase in funding

**E. No Impact/Impact Unknown**

- 501. No additional impact
- 502. Minor impact only
- 503. Too early to determine impact
- 504. No impact because funding cut was compensated by another institution

**F. Other**

- 601. Possible termination of relationship with NSF

**Q.3.8 Please describe any other impact(s) that would result if NSF provided you what you need for what you want to accomplish, or give more details on any in the list that needs further explanation.**

**B. Goals and Objectives**

- 101. Expand planned project scope
- 102. Research new ideas/information discovered during planned research (innovative/high risk)
- 103. Improve data quality
- 104. Increase data analysis
- 105. Increase amount of field work
- 106. Faster rate of project progress
- 107. Pursue longer-term projects
- 108. Without NSF support my research would never have been supported/continue

**B. Applications and Outcomes**

- 201. Improve dissemination:
  - Web-site development
  - Publishing
  - Conference/meeting attendance
- 202. Enhanced integration of research with education
- 203. Development of new course material
- 204. Conservation
- 205. Enhance national and international public health
- 206. Positive impact on reputation of institution
- 207. Positive career impact/tenure for PI
- 208. Increase public outreach
- 209. Increase technology transfer to underdeveloped countries
- 210. Lend credibility to project
- 211. Keep up with inflation

- 212. Implementation and commercialization of research results
- 213. Maintain competitiveness within international scientific community
- 214. Positive agricultural implications
- 215. Enhanced possibility of developing patents
- 216. Specific description of a scientific advance
- 217. Increased interaction/collaboration with colleagues/peers/other scientists
- 218. NSF grant increases my ability to receive matching funds from other sources

### **C. Process and Team Building**

- 301. Ability to recruit/retain staff
- 302. Increase travel
- 303. Decrease time spent on seeking funding; increase time spent on research
- 304. If a larger grant were to be given rather than multiple smaller ones, less time would be spent on administrative activities.
- 305. Increased ability to mentor women and minority students
- 306. Increasing duration of grant would better correlate with the length of time needed for a student to earn a graduate degree.
- 307. Improve productivity/continuity of project with less staff turnover
- 308. Improve student productivity by funding them as Research Assistants instead of as Teaching Assistants.
- 309. Increased ability to attract bright, quality, graduate and post doctorate students/ability to encourage/excite scientists of the future

### **D. Research Tools**

- 401. Increase ability to purchase supplies and equipment
- 402. Establish separate course and research labs possible
- 403. New methodologies for research/experimentation
- 404. Establish research facilities

### **E. No Impact**

- 501. No additional impact
- 502. Question is not applicable

**Q.5.14 Questionnaires by their nature are limited. Please write in any other comments you have about your experiences with the NSF grant process that you think are important.**

### **A. General Award Comments**

- 101. NSF is the only source of funding for the particular type of project
- 102. Project would not have been possible but for NSF funding
- 103. NSF funding enabled a new area of research within a program
- 104. NSF funding allows researchers more flexibility than other agencies
- 105. NSF funding enables more fundamental research rather than applied research only
- 106. NSF funding helped the investigator's career
- 107. NSF funding enabled more funding to be obtained

108. Funding for new scientists should be facilitated
109. Funding of international projects is excellent
110. There should be an award appeal process
111. More awards should be given, even if that would necessitate smaller grants
112. Non-US citizens should be able to be supported by awards
113. Program directors should have term limits
114. Program directors should not rotate for improved continuity
115. More focus should be placed on research programs than individual projects
116. Individual awards should not be eliminated in favor of awards to larger groups
117. More graduate student scholarships should be given
118. The CAREER program emphasizes teaching too heavily
119. Valuable to have teaching/training incorporated with research
120. NSF should have a larger total budget
121. NSF budget cuts during projects are problematic
122. Require more funding of international projects
123. Funding for new scientists is satisfactory
124. Probability of receiving NSF grants is low

### **B. Award Size**

201. Grant size should be larger
202. Grant size should not be larger to allow more researchers to receive grants
203. Perceived disparity regarding size of grants awarded within different programs
204. Principle Investigators deliberately request larger budgets in anticipation of reduction in award
205. Award size is not keeping up with inflation
206. Award size is not keeping up with growing costs of conducting research
207. Award size is not keeping up with scientists' now-higher standard of living
208. Additional funding needed for more students
209. Additional funding needed for publication and dissemination of results
210. Additional funding needed for equipment
211. Additional funding needed for technical support
212. Overhead should not be included in awards but handled separately
213. Salary-release funding should be included in awards
214. Grant should cover summer salaries
215. Grant should not cover summer salaries
216. Grant amount should be smaller
217. Receiving funding for smaller projects is difficult
218. Funding for new scientists is good/satisfactory
219. Additional funding for information management is needed
220. Need for more starter grants

### **C. Award Duration**

301. Grant duration should be longer
302. Grant duration should remain shorter to allow more researchers to receive grants
303. 3 years is not enough time to complete project
304. 2-3 years is not enough time for a graduate student to complete his/her degree

- 305. Longer award duration is better as it provides more stability and ability to plan ahead
- 306. Projects with shorter term awards lose research assistants, who seek projects with longer-term funding.
- 307. Impossible to define a finite end to research, so cannot determine how much award duration should be increased
- 308. Difficult to maintain program continuity with breaks in funding
- 309. No-cost extensions are useful
- 310. Award renewals should be facilitated
- 311. Grant duration should be shorter

#### **D. Proposal Process**

- 401. Smaller award size requires more time to be spent on proposal preparation
- 402. Excessive amounts of time required for proposal preparation
- 403. Reasonable amounts of time required for proposal preparation
- 404. Increased program officer involvement is needed
- 405. Program officer involvement was satisfactory/helpful
- 406. NSF should require justification for any proposal not including student involvement
- 407. Investigators must promise more than can be delivered in proposals
- 408. The proposal process is becoming too competitive to be a cost-effective way to obtain funding.
- 409. Investigator uncertain of the criteria used to determine a fundable proposal
- 410. Page limit of proposals should be increased
- 411. Proposal deadlines are inappropriate for the field season
- 412. Investigators should be allowed to submit proposals to more than one organization.
- 413. NSF should increase the number of proposal due dates to help eliminate funding gaps.
- 414. NSF should not put so much emphasis on inclusion of outreach and/or elementary education activities in proposals
- 415. Multiple submissions for the same project is draining/a waste
- 416. Proposal process is beneficial to clarify goals
- 417. Must have results in hand in order to be funded

#### **E. Review Process**

- 501. Reviews do not enable multidiscipline work
- 502. Reviews enable multidiscipline work
- 503. Panel review should not replace mail review
- 504. Investigators should be able to respond to review feedback.
- 505. Reviewers should be made more accountable for their reviews
- 506. Some reviewers appear unqualified
- 507. Some reviewers appear not to be conscientious in their efforts
- 508. Award decisions are risk-averse
- 509. Award decisions support risky projects
- 510. Reviewers are too influenced by requested budget
- 511. Reviews should be completed in a shorter timeframe
- 512. Review completion timeframe was satisfactory

- 513. Publication of books as well as peer-reviewed articles should be considered
- 514. Too much delay between notification of award and the time when funds actually became available.
- 515. Investigators should be notified that they did not receive an award in time to resubmit for the next deadline.
- 516. More information should be provided on the details of how a panel arrives at its decision.
- 517. Reviewer comments were inappropriate
- 518. Investigators should not be penalized for already having another grant
- 519. Peer review process is satisfactory
- 520. Reviewer(s) who review an initial proposal should also review resubmissions
- 521. Reviewers should focus on conceptual aspects of the proposal only
- 522. Past results from awards should not be considered
- 523. Past results from awards should be considered more
- 524. Review process is overly political/biased; more anonymity with respect to researchers (names, salaries) reviewers favor colleagues' interests
- 525. Rating system appears arbitrary and ratings assigned by reviewers are given too much consideration by project managers
- 526. Review process needs improvement (not further specified)
- 527. Review panel participants should be changed periodically
- 528. Larger and/or more prestigious institutions/universities are favored in reviews

#### **F. Award Administration**

- 601. FASTLANE is satisfactory/convenient
- 602. FASTLANE is improved
- 603. FASTLANE is difficult/inconvenient
- 604. The paper process is preferred over the automated process
- 605. Satisfaction with NSF grant officer
- 606. Annual report should be required after rather than prior to the end of the first year
- 607. Administration workload is too heavy

#### **G. Communication between NSF and Investigators**

- 701. Open workshops are very helpful
- 702. More guidance on determining appropriate funding levels is needed
- 703. NSF's main web site is difficult to navigate
- 704. An on-line chat site should be available where investigators can post questions concerning the proposal preparation process.
- 705. New scientists need more assistance with budget formulation
- 706. More feedback is needed on annual reports
- 707. Means for providing anonymous feedback regarding program officers should be made available to PIs.
- 708. More orientation is needed for new awardees
- 709. Workshops should be held for writing and managing proposals
- 710. Researchers should receive annual updates indicating NSF's targeted areas of support.
- 711. Investigators need more assistance/guidance overall

**H. Survey Feedback**

- 801. The number of articles co-authored should be considered in addition to number of articles where the PI is the primary author, since many PIs allow students to be listed first.
- 802. The number of books authored should also be considered
- 803. Survey respondents should be provided with a summary of survey responses
- 804. The survey is too long
- 805. Survey is not easily applicable to the respondent's project
- 806. Overall satisfaction with NSF grant

**I. No Additional Comments**

### **Institutional Survey - Verbatim Response Coding Frame**

**Q.4.3 In your opinion, what, if any, would be the 2 or 3 most significant changes for your institution if NSF increased the average dollar amount for each grant award?**

**A. Award Amount**

- 100. Misc award amount
- 101. Stable funding source
- 102. More flexibility in budgeting

**B. Process**

- 200. Misc process
- 201. Increase time/effort/burden for grant administration office
- 202. Decrease time/effort/burden for grant administration office
- 203. Increase in number of applications/submissions/proposals

**C. Staff**

- 300. Misc staff
- 301. More student involvement
- 302. More faculty involvement

**D. None**

- 400. Misc none
- 401. No significant changes
- 402. No comment

**E. Research**

- 500. Misc research
- 501. Improved research quality/efficiency
- 502. More research conducted

**Q.4.4 Now what, if any, would be the 2 or 3 most significant changes for your institution if NSF increased the average duration for each grant award?**

**A. Award Duration**

- 100. Misc award duration
- 101. Stable funding source
- 102. Fewer no-cost extensions

**B. Process**

- 200. Misc process
- 201. Increase time/effort/burden for grant administration office
- 202. Decrease time/effort/burden for grant administration office

**C. Staff**

- 300. Misc staff
- 301. More student involvement
- 302. Positive impact on Principle Investigator

**D. None**

- 400. Misc none
- 401. No significant changes
- 403. No comment

**E. Research**

- 500. Misc research
- 501. Improved research quality/efficiency

**Please outline any suggestions you have for NSF changes that would result in a reduction of the amount of time and resources used by your institution to manage NSF grants.**

**Q.4.5**

**A. Process**

- 100. Misc process
- 101. Reduce quantity of budget revisions/reports required
- 102. Offer FastLane training/tutorial
- 103. Coordinate program announcements with FastLane updates
- 104. Provide improved FastLane functionality
- 105. FastLane needs more efficient communication of deadlines/project schedule
- 106. Positive experience with process/FastLane

**B. None**

- 200. Misc none
- 201. No significant suggestions
- 202. No comment

**C. Staff**

- 300. Misc staff
- 301. Necessary to improve training/coordination of information between FastLane helpdesk and Program Officer
- 302. Positive experience with staff

**D. Award amount and duration**

- 400. Misc amount
- 401. Misc duration
- 402. Should pattern program after NIH

**Questionnaires by their nature are sometimes limited. Please write in any other comments you have about your institution's experiences with the NSF grant process.**

**Q.5.3**

**A. Staff**

- 100. Misc Staff
- 101. Positive experience with NSF staff
- 102. Inconsistent information from NSF staff

**B. Technology/FastLane**

- 200. Misc technology/fast lane
- 201. Positive experience with FastLane
- 202. Negative experience with FastLane
- 203. Specific FastLane technical enhancement proposed

**C. Process**

- 300. Misc process
- 301. High level of administrative effort to utilize FastLane
- 302. Increased amount of time spent on proposals
- 303. Positive experience, not further specified

**D. Award amount and duration**

- 400. Misc amount
- 401. Misc duration
- 402. Should pattern program after NIH

**E. Survey**

- 500. Misc comments on survey

**APPENDIX E**

**PRINCIPAL INVESTIGATOR SURVEY CONTACT INFORMATION**

## **APPENDIX E CONTENTS**

- A. DR. COLWELL EMAIL INVITATION
- B. PARTICIPATION EMAIL
- C. REMINDER EMAIL

**APPENDIX E - A**

Dear NAME OF PRINCIPAL INVESTIGATOR:

The National Science Foundation (NSF) is examining its principal investigator research grants program with regard to the appropriate size and duration of awards. This examination will include an external survey to provide NSF with FY 2001 principal investigator advice on the most appropriate grant size and duration of their FY 2001 awards. The goal of the study is to improve the overall efficiency of the research process.

To accomplish this objective, NSF has commissioned Mathematica Policy Research, Inc.(MPR) to conduct a confidential survey. In the next week or so you will receive information directly from MPR about your participation in the survey. MPR will present the results of this survey only as statistical tabulations and there will not be any personal identification. All of your responses will be totally confidential.

This survey will provide important guidance to NSF with regard to future decisions about proposal funding. We realize that your time is very valuable, but we ask that you participate in this study so that NSF will have the most complete and accurate information. If you would like additional information please contact Mathew Mishkind at MPR ([nsfgrantsweb@mathematica-mpr.com](mailto:nsfgrantsweb@mathematica-mpr.com)).

Thank you for participating in this survey.

Sincerely,

Rita R. Colwell  
Director

**APPENDIX E - B**

Dear NAME OF PRINCIPAL INVESTIGATOR,

In January, you were sent a letter from Dr. Colwell, Director of the National Science Foundation, asking you to participate in a study conducted by Mathematica Policy Research to learn more about NSF grants from the perspective of the principal investigator. As described in Dr. Colwell's letter, MPR contacted you with information on how to participate in this study.

Our records indicate that you have not yet completed the questionnaire for this very important study. We understand that your time is important and that is why we have designed this study to be completed at your convenience on the World Wide Web. Because each NSF grant is unique, it is very important to get a completed questionnaire from each principal investigator. Due to the continued interest in the project, we have extended the due date to March 8, 2002. Please take the time now to go to the website and complete the questionnaire.

Please click on this link to begin the questionnaire:

<http://NSFGRANTS.Mathematica-mpr.com>

USERNAME: NAME OF PRINCIPAL INVESTIGATOR      PASSWORD: 12345

All of the information you provide will be totally confidential. We will not use your name or email for any other purpose than this study. Mathematica is required to protect the privacy of people who respond to the survey. Please be assured that the information you provide is confidential. Names and addresses will not be released to anyone. All personal data are stored behind Mathematica's firewall to protect against unauthorized access.

If you have any questions about the background of the study you may contact Bob Abel at NSF <mailto:NSF-Surveys@nsf.gov>. For general survey questions or questions about MPR, contact Matt Mishkind at (877)-236-4185 or <mailto:NSFGRANTSWEB@Mathematica-mpr.com>.

Regards,  
Janice Ballou  
Vice President

An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. The OMB number for this project is 3145-0185.

**APPENDIX E - C**

Dear NAME OF PRINCIPAL INVESTIGATOR,

Recently a letter from Dr. Colwell, Director of the National Science Foundation (NSF), informed you that Mathematica Policy Research would contact you about a study we are conducting to assist NSF in their future planning. The main objective of the study is to learn more about NSF grants from the perspective of the principal investigator. This study will give you an opportunity to provide NSF information about your experiences with the grant process. Because each NSF grant is unique, it is very important to get a completed questionnaire from each principal investigator. March 8, 2002 is the deadline to complete the questionnaire. Please take the time now to go to the website and complete the questionnaire.

The questionnaire that NSF would like you to complete can be found at <http://NSFGRANTS.Mathematica-mpr.com> . You will be prompted to enter a username and password when you enter the site.

USERNAME: NAME OF PRINCIPAL INVESTIGATOR      PASSWORD: 12345

All of the information you provide will be totally confidential. We will not use your name or email for any other purpose than this study. Mathematica is required to protect the privacy of people who respond to the survey. Please be assured that the information you provide is confidential. Names and addresses will not be released to anyone. All personal data are stored behind Mathematica's firewall to protect against unauthorized access. If you have any questions about the background of the study you may contact Bob Abel at NSF mailto:NSF-Surveys@nsf.gov . For general survey questions or questions about MPR, contact Matt Mishkind at (877)-236-4185 or mailto:NSFGRANTSWEB@Mathematica-mpr.com .

Regards,  
Janice Ballou  
Vice President

An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. The OMB number for this project is 3145-0185.

**APPENDIX F**

**INSTITUTIONAL SURVEY CONTACT INFORMATION**

## **APPENDIX F CONTENTS**

- A. LETTER FROM DR. COLWELL TO INSTITUTION PRESIDENTS INTRODUCING THE SURVEYS
- B. INVITATION AND CONTACT INFORMATION EMAIL
- C. INVITATION LETTER
- D. QUESTIONNAIRE INSERT - 2001 NSF GRANTS AWARDED
- E. QUESTIONNAIRE INSERT - NO GRANT AWARD REFERENCE
- F. EXTENDED DEADLINE INSERT
- G. REMINDER EMAIL 1
- H. REMINDER EMAIL 2

## **APPENDIX F - A**

Dear NAME OF INSTITUTION President,

The National Science Foundation (NSF) continues to examine ways to improve the efficiency and effectiveness of the research funding process. In order to better understand the appropriate size, appropriate duration, and impact of its awards, NSF has commissioned two surveys: one survey of principal investigators and one survey of institutional representatives.

Mathematica Policy Research, Inc. (MPR), on behalf of NSF, will conduct these surveys. In the next week or so the surveys will be sent directly to a sample of principal investigators at your institution and to your institutional representative.

All of the responses will be confidential and there will not be any identification of institutions or principal investigators. MPR will present the results of these surveys to NSF only as statistical tabulations.

These surveys are integral to NSF's commitment to fully enabling science and engineering. The survey results will provide insight to NSF on the grant process and investment priorities and strategies. We greatly appreciate your willingness to support this project in order to ensure that NSF will have the most complete and accurate information. If you would like additional information, please contact Mathew Mishkind at MPR ([nsfgrantsweb@mathematica-mpr.com](mailto:nsfgrantsweb@mathematica-mpr.com)).

Thank you for supporting your institution's participation in these surveys.

Sincerely,

Rita R. Colwell  
Director

**APPENDIX F - B**

Recently Dr. Colwell, Director of the National Science Foundation (NSF), informed your institution that Mathematica Policy Research is conducting a study to assist NSF in their future planning. The main objective of the study is to learn more about NSF grants from the perspective of the institutions.

It is very important that the Institutional Survey is completed by the person who is the most knowledgeable about the overall grant process from the proposal phase to grant administration, and who has final administrative responsibility for this process. Please reply to this email with the name and contact information for this person.

       I am the person who should be contacted for this study.

       The person listed below should be contacted for this study.

NAME:

ADDRESS:

TELEPHONE:

EMAIL:

If you have any questions about the background of the study you may contact Bob Abel at NSF (703-292-4492 or <mailto:nsf-surveys@nsf.gov>). For general survey questions or questions about MPR, contact Matthew Mishkind at 877-236-4185 or <mailto:NSFGrants@Mathematica-mpr.com>

This study will give your institution an opportunity to provide NSF information about your experiences with the grant process. Because each institution is unique, it is very important to have your participation. Please take the time now to email the requested information.

Regards,

Janice Ballou  
Vice President

An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. The OMB number of this project is 3145-0185.

## **APPENDIX F - C**

February 14, 2002

Greetings:

Recently a letter from Dr. Colwell, Director of the National Science Foundation (NSF), informed your institution that Mathematica Policy Research would contact you about a study we are conducting to assist NSF in their future planning. The main objective of the study is to learn more about NSF grants from the perspective of the institutions.

The questionnaire that NSF would like you to complete is included in this packet. All of the information you provide will be totally confidential. Information from the study will only be in the aggregate.

If you have any questions about the background of the study you may contact Bob Abel at NSF ([nsf-survey@nsf.gov](mailto:nsf-survey@nsf.gov)). For general survey questions or questions about MPR , contact Matt Mishkind at [877-236-4185/nsfgrants@mathematica-mpr.com](mailto:877-236-4185/nsfgrants@mathematica-mpr.com).

This study will give you an opportunity to provide NSF information about your experiences with the grant process. Because each institution is unique, it is very important to get your completed questionnaire by March 8,2002. Please take the time now to answer these questions.

Regards,

Janice Ballou  
Vice President

*An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. The OMB number of this project is 3145-0185.*

---

## **NSF Grants Awarded FY 2001**

### **Institution**

<b>Principal Investigator</b>		<b>Award Amount</b>	<b>Award Duration</b>	<b>Grant Title</b>
<i>George Washington Univ</i>				
Bellaachiat	elghanit	"\$369,003.00"	3t	ITR/AP:t Web-BasedtScientifictalysisist Facilityfort Nuclear&tParticletPhysicstData
Goodfriendt	Glennt	"\$250,063.00"	3t	The Origin of Geographic Diversity in the Bahamian Land Snail Cerion:t The Fossil History of Modern Pat ernst
Hellert	Rachellet	"\$149,201.00"	3t	DVANCEt Leadership Wardt
Maltzman	Forrest	"\$72,142.00"	2t	Collaborative Research:t Party Effectst Congresst
Vonortast	Nicholast	"\$183,295.00"	2t	Network Indicators
Zengt	Chent	"\$300,000.00"	5t	CAREER:t Statistical Physics of Disordered Systems:t Program for the Development and Application of Exact Combinatorial Algorithms to Extended Systems in Disordered Media

---

**MATHEMATICA**  
Policy Research, Inc.

---

**MEMORANDUM**

P.O. Box 2393  
Princeton, NJ 08543-2393  
Telephone (609) 799-3535  
Fax (609) 799-0005  
[www.mathematica-mpr.com](http://www.mathematica-mpr.com)

**TO:** NSF Grants Institutional Survey Respondent

**FROM:** Janice Ballou

**DATE:** 3/1/2002

**SUBJECT:** NSF FY 2001 Grant Awards

---

As noted in the instructions to the questionnaire, Mathematica Policy Research (MPR) planned to provide you with a listing of your institution's NSF FY 2001 Grant Awards as a reference. We are not able to provide you with this information. However, you can complete the questionnaire without this listing or you may have your own list of NSF FY 2001 Grant Awards to use as a reference.

Please contact MPR at [nsfgrants@mathematica-mpr.com](mailto:nsfgrants@mathematica-mpr.com) if you have any questions. We look forward to your participation in this important study.

**APPENDIX F - F**

***ATTENTION***

***EXTENDED DEADLINE TO RETURN***

***NATIONAL SCIENCE FOUNDATION INSTITUTIONAL  
SURVEY***

***RETURN DATE MARCH 15, 2002***

The enclosed questionnaire will have a March 8, 2002 return date. Since we have just recently received the information to mail your questionnaire packet, the return date has been extended to March 15, 2002.

This study will give your institution the opportunity to provide NSF information about your experiences with the grant process. Because each institution is unique, it is very important to have your participation.

Please note that this study had two different questionnaires: 1) the NSF Institution Survey which is the focus of this letter and 2) a web-based survey of principal investigators that focuses on individual grant experiences. If for some reason you were included in both groups, you may have already completed the principal investigator questionnaire. It is very important to also complete the institutional questionnaire.

**APPENDIX F - G**

The National Science Foundation (NSF) study of institutions is very important. In the past few weeks, you received an initial email and a reminder from Mathematica Policy Research (MPR) briefly describing the study and requesting information to insure we contact the most appropriate person to participate in this study.

We have not heard from you and would like to have your response as soon as possible so we can insure the research conducted for NSF is representative and provides the information NSF needs for their future planning. If you have already replied, thank you for your cooperation. Your institution will soon receive a three page questionnaire about your NSF experience.

It is very important that the Institution Survey is completed by the person who is the most knowledgeable about the overall grant process from the proposal phase to grant administration, and who has final administrative responsibility for this process. Please reply to this email with the name and contact information for this person:

NAME:  
ADDRESS:  
TELEPHONE:  
EMAIL:

If you have any questions about the background of the study you may contact Bob Abel at NSF (<mailto:nsf-surveys@nsf.gov>). For general survey questions or questions about MPR, contact Matthew Mishkind at 877-236-4185 or <mailto:nsfgrants@mathematica-mpr.com> .

This study will give your institution the opportunity to provide NSF information about your experiences with the grant process. Because each institution is unique, it is very important to have your participation. Please take the time to email the requested information.

Regards,

Janice Ballou  
Vice President

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**APPENDIX F - H**

REMINDER: NATIONAL SCIENCE FOUNDATION INSTITUTIONAL SURVEY RETURN DATE EXTENDED TO MARCH 15, 2002

We have not yet received a completed questionnaire from your institution.

If you have already completed and returned the mail questionnaire please inform us by responding to this message. Thank you very much for your participation in this study.

As you know from our previous messages, the National Science Foundation (NSF) study of institutions is very important. In the past few weeks, you were sent an email from Mathematica Policy Research (MPR) describing briefly the study and requesting information to insure we contact the most appropriate person to participate in this study. All institutions providing this information were sent a packet containing the questionnaire and a list of FY 2001 grants received by the respective institutions.

--If you have completed the questionnnaire, but have not yet returned it by mail to MPR, please consider making copies of all of the pages, including the cover, and sending it by fax to the attention of Matthew Mishkind at 609-799-0005.

If you have any questions about the background of the study you may contact Bob Abel at NSF (<mailto:nsf-surveys@nsf.gov>). For general survey questions or questions about MPR, contact Matthew Mishkind at 877-236-4185 or (<mailto:nsfgrants@mathematica-mpr.com>).

This study will give your institution the opportunity to provide NSF information about your experiences with the grant process. Because each institution is unique, it is very important to have your participation.

Regards,

Janice Ballou  
Vice President

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**APPENDIX G**  
**STATISTICAL TABULATIONS**

## **APPENDIX G CONTENTS**

- A. MEASURE OF CENTRAL TENDENCY: PRINCIPAL INVESTIGATOR SURVEY
- B. MEASURE OF CENTRAL TENDENCY CONSTRUCTED VARIABLES: PRINCIPAL INVESTIGATOR SURVEY
- C. CROSS TABULATIONS: PRINCIPAL INVESTIGATOR SURVEY
- D. MEASURE OF CENTRAL TENDENCY: SAMPLE INSTITUTIONS
- E. MEASURE OF CENTRAL TENDENCY: NONSAMPLE INSTITUTIONS

## **APPENDIX G**

### **STATISTICAL TABULATIONS**

The statistical tabulations that follow include the central tendency distributions for the: (1) PI survey results, (2) sample institution survey results, and (3) nonsample institution survey results. In addition, for the PI survey results there is a set of cross tabulations for a selected group of key questions in the questionnaire. There is a full set of electronic tabulations for all questionnaire items. The questions included in Appendix G represent the following PI categories:

#### Banner 1

- Type of grant submission
- Type of research being funded
- Changes in funding from proposal request to award
- Changes in duration from proposal request to award
- Professional age based on date of PI's last degree

#### Banner 2

- Additional years needed to accomplish PI goals
- Percentage of goals achieved in next 5 years with NSF award
- Additional funding needed to accomplish PI goals
- Use of national or international facility

#### Banner 3

- NSF Directorate
- Preparation hours for FY 2001 grant proposal submission
- Number of PI published peer review articles

**APPENDIX G – A**

**MEASURE OF CENTRAL TENDENCY: PRINCIPAL INVESTIGATOR SURVEY**

TABLE 1\*

## TOTAL

QUESTION	COUNT	MEAN	MEDIAN	MODE	STANDARD DEVIATION	MAXIMUM	MINIMUM
Q.3.5 Additional grants needed to get funding	4,208	2	2	2	2	32	0
Q.3.1 Additional years needed to accomplish key goals	3,721	3	2	2	3	40	0
Q.3.2 Percentage of goals achieved with 2001 NSF research grant	4,434	37	30	20	22	100	0
Q.3.3 Additional funding from all sources needed to achieve goals	4,345	1,149,167	500,000	500,000	7,773,405	300,000,000	0
Q.3.4 Percentage of additional amount appropriate for NSF to fund	3,895	67	70	100	28	100	0
Q.5.6 Total amount of annual funding from other NSF grants	2,125	206,569	100,000	100,000	1,061,085	30,000,000	0
Q.5.9 Total number of current non-NSF funding sources	3,474	2	2	1	9	420	0
Q.5.10 Total amount of annual funding from non-NSF sources	3,523	198,846	100,000	100,000	462,436	10,000,000	0
Q.5.1 Total hours of preparation for submitting this proposal	4,547	157	100	100	250	9,000	1
Q.5.12 Number of peer-reviewed articles published in past five years as primary author	4,821	13	9	5	17	500	0
Q.5.2.1 Percent of hours devoted to intellectual content of proposal preparation	4,947	68	75	80	18	100	5
Q.5.2.2 Percent of hours devoted to mechanics of proposal preparation	4,947	32	25	20	18	100	0
Q.5.5 Total number of current NSF grants funding ongoing body of research	2,167	2	1	1	6	236	0
Q.5.11 Percent of time spent conducting research in each of the following ways:							
1 Part of team with researchers from other disciplines	4,933	14	10	0	16	100	0
2 Part of team with senior investigators in same discipline	4,933	25	20	20	20	100	0
3 Individually with students and post doctoral assistants	4,933	54	55	50	26	100	0
4 Other	4,933	6	0	0	18	100	0
Q.5.13 Number in following categories working on current research projects:							
1 Undergraduate Students	4,140	2	2	1	3	50	0
2 Graduate Students	4,602	4	3	2	6	300	0
3 Post-doctoral fellows	3,992	1	1	0	2	100	0
Award Amount	4,989	335,979	249,999	300,000	505,250	15,062,146	300
Award Duration	4,989	3	3	3	1	9	0
Requested Amount	4,989	435,806	312,208	375,000	690,037	15,062,148	300
Requested Duration	4,989	3	3	3	1	6	0

\* All values rounded to nearest whole number

**TABLE 2 -A\*****SUBMISSION: FIRST**

QUESTION	COUNT	MEAN	MEDIAN	MODE	STANDARD DEVIATION	MAXIMUM	MINIMUM
Q.3.5 Additional grants needed to get funding	2,942	2	2	2	2	32	0
Q.3.1 Additional years needed to accomplish key goals	2,595	3	2	2	3	40	0
Q.3.2 Percentage of goals achieved with 2001 NSF research grant	3,098	37	30	20	22	100	0
Q.3.3 Additional funding from all sources needed to achieve goals	3,053	1,256,369	500,000	500,000	8,945,781	300,000,000	0
Q.3.4 Percentage of additional amount appropriate for NSF to fund	2,723	67	70	100	29	100	0
Q.5.6 Total amount of annual funding from other NSF grants	1,502	227,307	100,000	100,000	1,250,591	30,000,000	0
Q.5.9 Total number of current non-NSF funding sources	2,436	3	2	1	10	420	0
Q.5.10 Total amount of annual funding from non-NSF sources	2,471	212,812	100,000	50,000	499,346	10,000,000	0
Q.5.1 Total hours of preparation for submitting this proposal	3,203	145	100	100	218	6,000	2
Q.5.12 Number of peer-reviewed articles published in past five years as primary author	3,394	14	10	5	17	500	0
Q.5.2.1 Percent of hours devoted to intellectual content of proposal preparation	3,490	68	70	80	18	100	5
Q.5.2.2 Percent of hours devoted to mechanics of proposal preparation	3,490	32	30	20	18	100	0
Q.5.5 Total number of current NSF grants funding ongoing body of research	1,533	2	1	1	7	236	0
Q.5.11 Percent of time spent conducting research in each of the following ways:							
1 Part of team with researchers from other disciplines	3,482	15	10	0	16	100	0
2 Part of team with senior investigators in same discipline	3,482	26	20	20	21	100	0
3 Individually with students and post doctoral assistants	3,482	53	50	50	26	100	0
4 Other	3,482	6	0	0	17	100	0
Q.5.13 Number in following categories working on current research projects:							
1 Undergraduate Students	2,896	2	2	0	3	50	0
2 Graduate Students	3,250	4	3	2	6	300	0
3 Post-doctoral fellows	2,833	1	1	0	3	100	0
Award Amount	3,521	348,288	249,999	300,000	549,244	15,062,146	2,650
Award Duration	3,521	3	3	3	1	6	0
Requested Amount	3,521	455,785	314,662	375,000	765,366	15,062,148	2,650
Requested Duration	3,521	3	3	3	1	6	0

\* All values rounded to nearest whole number

TABLE 2 - B\*

## SUBMISSION: SECOND

QUESTION	COUNT	MEAN	MEDIAN	MODE	STANDARD DEVIATION	MAXIMUM	MINIMUM
Q.3.5 Additional grants needed to get funding	1,253	2	2	2	2	20	0
Q.3.1 Additional years needed to accomplish key goals	1,114	3	2	2	3	30	0
Q.3.2 Percentage of goals achieved with 2001 NSF research grant	1,320	38	30	20	22	100	0
Q.3.3 Additional funding from all sources needed to achieve goals	1,277	899,336	500,000	500,000	3,768,409	125,000,000	0
Q.3.4 Percentage of additional amount appropriate for NSF to fund	1,158	68	70	100	27	100	0
Q.5.6 Total amount of annual funding from other NSF grants	617	154,849	95,000	100,000	257,126	3,000,000	0
Q.5.9 Total number of current non-NSF funding sources	1,025	2	2	1	7	219	0
Q.5.10 Total amount of annual funding from non-NSF sources	1,039	159,838	80,000	100,000	325,174	8,000,000	0
Q.5.1 Total hours of preparation for submitting this proposal	1,328	186	120	100	313	9,000	8
Q.5.12 Number of peer-reviewed articles published in past five years as primary author	1,411	12	8	5	15	275	0
Q.5.2.1 Percent of hours devoted to intellectual content of proposal preparation	1,441	70	75	80	17	99	10
Q.5.2.2 Percent of hours devoted to mechanics of proposal preparation	1,441	30	25	20	17	90	1
Q.5.5 Total number of current NSF grants funding ongoing body of research	628	2	1	1	1	7	0
Q.5.11 Percent of time spent conducting research in each of the following ways:							
1 Part of team with researchers from other disciplines	1,435	14	10	0	15	100	0
2 Part of team with senior investigators in same discipline	1,435	23	20	10	20	100	0
3 Individually with students and post doctoral assistants	1,435	56	60	50	26	100	0
4 Other	1,435	7	0	0	19	100	0
Q.5.13 Number in following categories working on current research projects:							
1 Undergraduate Students	1,232	2	2	1	2	25	0
2 Graduate Students	1,337	4	3	2	3	35	0
3 Post-doctoral fellows	1,145	1	1	0	1	20	0
Award Amount	1,449	306,179	250,000	300,000	378,477	5,765,151	300
Award Duration	1,449	3	3	3	1	9	1
Requested Amount	1,449	388,037	306,181	375,000	459,976	4,997,959	300
Requested Duration	1,449	3	3	3	1	5	0

\* All values rounded to nearest whole number

TABLE 3 - A\*

## TYPE OF RESEARCH: THEORETICAL

QUESTION	COUNT	MEAN	MEDIAN	MODE	STANDARD DEVIATION	MAXIMUM	MINIMUM
Q.3.5 Additional grants needed to get funding	1,446	2	2	1	2	20	0
Q.3.1 Additional years needed to accomplish key goals	1,253	2	2	2	3	30	0
Q.3.2 Percentage of goals achieved with 2001 NSF research grant	1,574	39	35	50	22	100	0
Q.3.3 Additional funding from all sources needed to achieve goals	1,518	740,144	350,000	500,000	1,930,245	50,000,000	0
Q.3.4 Percentage of additional amount appropriate for NSF to fund	1,330	71	75	100	27	100	0
Q.5.6 Total amount of annual funding from other NSF grants	663	199,320	85,000	100,000	1,212,367	30,000,000	0
Q.5.9 Total number of current non-NSF funding sources	1,139	2	2	1	3	100	0
Q.5.10 Total amount of annual funding from non-NSF sources	1,149	170,618	70,000	50,000	475,805	10,000,000	0
Q.5.1 Total hours of preparation for submitting this proposal	1,661	129	100	100	299	9,000	2
Q.5.12 Number of peer-reviewed articles published in past five years as primary author	1,798	14	10	10	17	500	0
Q.5.2.1 Percent of hours devoted to intellectual content of proposal preparation	1,841	70	75	80	17	100	10
Q.5.2.2 Percent of hours devoted to mechanics of proposal preparation	1,840	30	25	20	17	90	0
Q.5.5 Total number of current NSF grants funding ongoing body of research	677	2	1	1	1	8	0
Q.5.11 Percent of time spent conducting research in each of the following ways:							
1 Part of team with researchers from other disciplines	1,837	13	10	0	16	100	0
2 Part of team with senior investigators in same discipline	1,837	29	25	20	22	100	0
3 Individually with students and post doctoral assistants	1,837	49	50	50	26	100	0
4 Other	1,837	8	0	0	20	100	0
Q.5.13 Number in following categories working on current research projects:							
1 Undergraduate Students	1,359	1	1	0	2	30	0
2 Graduate Students	1,692	3	2	1	3	30	0
3 Post-doctoral fellows	1,394	1	1	0	1	15	0
Award Amount	1,863	276,149	201,950	300,000	381,779	5,655,274	3,200
Award Duration	1,863	3	3	3	1	9	1
Requested Amount	1,863	372,595	260,652	375,000	566,969	11,109,857	4,000
Requested Duration	1,863	3	3	3	1	5	0

\* All values rounded to nearest whole number

TABLE 3 - B\*

## RESEARCH TYPE: LABORATORY

QUESTION	COUNT	MEAN	MEDIAN	MODE	STANDARD DEVIATION	MAXIMUM	MINIMUM
Q.3.5 Additional grants needed to get funding	1,971	2	2	2	2	32	0
Q.3.1 Additional years needed to accomplish key goals	1,704	3	2	2	3	40	0
Q.3.2 Percentage of goals achieved with 2001 NSF research grant	2,001	37	30	20	22	100	1
Q.3.3 Additional funding from all sources needed to achieve goals	2,013	1,190,205	500,000	500,000	5,618,851	200,000,000	0
Q.3.4 Percentage of additional amount appropriate for NSF to fund	1,841	63	60	100	29	100	0
Q.5.6 Total amount of annual funding from other NSF grants	984	222,278	100,000	100,000	1,184,750	25,000,000	0
Q.5.9 Total number of current non-NSF funding sources	1,661	2	2	1	6	219	0
Q.5.10 Total amount of annual funding from non-NSF sources	1,693	209,805	110,000	100,000	353,953	6,000,000	0
Q.5.1 Total hours of preparation for submitting this proposal	2,020	170	120	100	184	2,400	4
Q.5.12 Number of peer-reviewed articles published in past five years as primary author	2,125	15	10	5	18	275	0
Q.5.2.1 Percent of hours devoted to intellectual content of proposal preparation	2,177	68	75	80	18	99	5
Q.5.2.2 Percent of hours devoted to mechanics of proposal preparation	2,177	32	25	20	18	95	1
Q.5.5 Total number of current NSF grants funding ongoing body of research	1,003	2	1	1	4	115	0
Q.5.11 Percent of time spent conducting research in each of the following ways:							
1 Part of team with researchers from other disciplines	2,173	14	10	10	14	100	0
2 Part of team with senior investigators in same discipline	2,173	20	20	10	17	100	0
3 Individually with students and post doctoral assistants	2,173	62	67	80	23	100	0
4 Other	2,173	4	0	0	13	100	0
Q.5.13 Number in following categories working on current research projects:							
1 Undergraduate Students	1,995	3	2	2	2	20	0
2 Graduate Students	2,056	4	3	2	4	100	0
3 Post-doctoral fellows	1,899	1	1	0	3	100	0
Award Amount	2,186	389,789	310,051	300,000	568,199	15,062,146	300
Award Duration	2,186	3	3	3	1	6	1
Requested Amount	2,186	506,945	375,000	375,000	760,041	15,062,148	300
Requested Duration	2,186	3	3	3	1	5	0

\* All values rounded to nearest whole number

TABLE 3 - C\*

## RESEARCH TYPE: FIELD

QUESTION	COUNT	MEAN	MEDIAN	MODE	STANDARD DEVIATION	MAXIMUM	MINIMUM
Q.3.5 Additional grants needed to get funding	769	3	2	2	2	20	0
Q.3.1 Additional years needed to accomplish key goals	740	3	2	2	4	40	0
Q.3.2 Percentage of goals achieved with 2001 NSF research grant	832	34	25	20	21	100	0
Q.3.3 Additional funding from all sources needed to achieve goals	787	1,838,822	500,000	500,000	15,653,147	300,000,000	0
Q.3.4 Percentage of additional amount appropriate for NSF to fund	703	71	75	100	27	100	0
Q.5.6 Total amount of annual funding from other NSF grants	458	181,101	100,000	100,000	279,757	2,500,000	0
Q.5.9 Total number of current non-NSF funding sources	649	3	2	1	9	219	0
Q.5.10 Total amount of annual funding from non-NSF sources	659	205,309	75,000	100,000	611,484	10,000,000	0
Q.5.1 Total hours of preparation for submitting this proposal	833	178	120	100	279	5,000	8
Q.5.12 Number of peer-reviewed articles published in past five years as primary author	863	8	6	5	9	112	0
Q.5.2.1 Percent of hours devoted to intellectual content of proposal preparation	894	67	70	80	18	99	5
Q.5.2.2 Percent of hours devoted to mechanics of proposal preparation	894	33	30	20	18	95	1
Q.5.5 Total number of current NSF grants funding ongoing body of research	466	2	2	1	11	236	0
Q.5.11 Percent of time spent conducting research in each of the following ways:							
1 Part of team with researchers from other disciplines	888	18	10	0	19	100	0
2 Part of team with senior investigators in same discipline	888	29	25	20	21	100	0
3 Individually with students and post doctoral assistants	888	45	40	50	26	100	0
4 Other	888	8	0	0	21	100	0
Q.5.13 Number in following categories working on current research projects:							
1 Undergraduate Students	761	3	2	1	4	50	0
2 Graduate Students	822	4	3	2	11	300	0
3 Post-doctoral fellows	672	1	1	0	2	25	0
Award Amount	902	330,890	198,018	400,000	554,016	5,765,151	4,496
Award Duration	902	3	3	3	1	6	1
Requested Amount	902	395,107	237,599	400,000	732,059	14,111,022	4,950
Requested Duration	902	3	3	3	1	6	0

\* All values rounded to nearest whole number

**TABLE 4 - A\*****PROFESSIONAL AGE: 0 - 10 YEARS FROM HIGHEST DEGREE**

QUESTION	COUNT	MEAN	MEDIAN	MODE	STANDARD DEVIATION	MAXIMUM	MINIMUM
Q.3.5 Additional grants needed to get funding	1,229	2	2	2	2	30	0
Q.3.1 Additional years needed to accomplish key goals	1,054	2	2	2	3	40	0
Q.3.2 Percentage of goals achieved with 2001 NSF research grant	1,334	38	30	20	23	100	0
Q.3.3 Additional funding from all sources needed to achieve goals	1,269	867,523	500,000	500,000	5,705,307	200,000,000	0
Q.3.4 Percentage of additional amount appropriate for NSF to fund	1,115	67	67	100	28	100	0
Q.5.6 Total amount of annual funding from other NSF grants	567	132,226	80,000	100,000	247,877	3,000,000	0
Q.5.9 Total number of current non-NSF funding sources	1,050	2	2	1	13	420	0
Q.5.10 Total amount of annual funding from non-NSF sources	1,056	128,846	75,000	100,000	191,609	2,250,000	0
Q.5.1 Total hours of preparation for submitting this proposal	1,335	163	100	100	314	9,000	2
Q.5.12 Number of peer-reviewed articles published in past five years as primary author	1,457	11	8	5	10	111	0
Q.5.2.1 Percent of hours devoted to intellectual content of proposal preparation	1,487	70	75	80	18	100	5
Q.5.2.2 Percent of hours devoted to mechanics of proposal preparation	1,487	30	25	20	18	95	0
Q.5.5 Total number of current NSF grants funding ongoing body of research	582	2	1	1	1	7	0
Q.5.11 Percent of time spent conducting research in each of the following ways:							
1 Part of team with researchers from other disciplines	1,482	14	10	0	15	90	0
2 Part of team with senior investigators in same discipline	1,482	24	20	20	21	100	0
3 Individually with students and post doctoral assistants	1,482	54	60	50	26	100	0
4 Other	1,482	7	0	0	19	100	0
Q.5.13 Number in following categories working on current research projects:							
1 Undergraduate Students	1,279	2	2	1	3	30	0
2 Graduate Students	1,365	4	3	2	3	35	0
3 Post-doctoral fellows	1,117	1	0	0	1	10	0
Award Amount	1,496	283,583	239,954	375,000	354,815	7,500,000	3,229
Award Duration	1,496	3	3	3	1	9	0
Requested Amount	1,496	357,864	289,404	375,000	521,102	13,037,189	3,229
Requested Duration	1,496	3	3	3	1	5	0

\* All values rounded to nearest whole number

**TABLE 4 - B\*****PROFESSIONAL AGE: 11 - 20 YEARS FROM HIGHEST DEGREE**

QUESTION	COUNT	MEAN	MEDIAN	MODE	STANDARD DEVIATION	MAXIMUM	MINIMUM
Q.3.5 Additional grants needed to get funding	1,479	2	2	2	2	20	0
Q.3.1 Additional years needed to accomplish key goals	1,323	3	2	2	3	27	0
Q.3.2 Percentage of goals achieved with 2001 NSF research grant	1,531	37	30	20	22	100	0
Q.3.3 Additional funding from all sources needed to achieve goals	1,515	1,139,437	500,000	500,000	6,236,505	200,000,000	0
Q.3.4 Percentage of additional amount appropriate for NSF to fund	1,378	66	65	100	28	100	0
Q.5.6 Total amount of annual funding from other NSF grants	809	181,518	100,000	100,000	694,886	18,300,000	0
Q.5.9 Total number of current non-NSF funding sources	1,225	2	2	1	2	30	0
Q.5.10 Total amount of annual funding from non-NSF sources	1,248	201,140	100,000	50,000	483,308	10,000,000	0
Q.5.1 Total hours of preparation for submitting this proposal	1,572	157	100	100	235	6,000	4
Q.5.12 Number of peer-reviewed articles published in past five years as primary author	1,653	14	10	5	18	500	0
Q.5.2.1 Percent of hours devoted to intellectual content of proposal preparation	1,693	69	75	80	17	100	5
Q.5.2.2 Percent of hours devoted to mechanics of proposal preparation	1,692	31	25	20	17	95	1
Q.5.5 Total number of current NSF grants funding ongoing body of research	825	2	1	1	1	8	0
Q.5.11 Percent of time spent conducting research in each of the following ways:							
1 Part of team with researchers from other disciplines	1,691	14	10	0	15	100	0
2 Part of team with senior investigators in same discipline	1,691	25	20	20	19	100	0
3 Individually with students and post doctoral assistants	1,691	55	60	50	25	100	0
4 Other	1,691	5	0	0	16	100	0
Q.5.13 Number in following categories working on current research projects:							
1 Undergraduate Students	1,429	2	2	1	3	24	0
2 Graduate Students	1,594	4	3	2	3	40	0
3 Post-doctoral fellows	1,385	1	1	0	2	40	0
Award Amount	1,710	332,208	248,271	300,000	468,770	5,803,691	4,000
Award Duration	1,710	3	3	3	1	6	1
Requested Amount	1,710	440,801	300,118	100,000	739,611	14,111,022	4,000
Requested Duration	1,710	3	3	3	1	6	0

\* All values rounded to nearest whole number

**TABLE 4 - C\*****PROFESSIONAL AGE: 21+ YEARS FROM HIGHEST DEGREE**

QUESTION	COUNT	MEAN	MEDIAN	MODE	STANDARD DEVIATION	MAXIMUM	MINIMUM
Q.3.5 Additional grants needed to get funding	1,500	2	2	1	2	32	0
Q.3.1 Additional years needed to accomplish key goals	1,344	3	2	2	3	40	0
Q.3.2 Percentage of goals achieved with 2001 NSF research grant	1,569	37	30	50	22	100	0
Q.3.3 Additional funding from all sources needed to achieve goals	1,561	1,387,569	500,000	500,000	10,194,917	300,000,000	0
Q.3.4 Percentage of additional amount appropriate for NSF to fund	1,402	69	75	100	29	100	0
Q.5.6 Total amount of annual funding from other NSF grants	749	289,906	100,000	100,000	1,617,765	30,000,000	0
Q.5.9 Total number of current non-NSF funding sources	1,199	3	2	1	10	219	0
Q.5.10 Total amount of annual funding from non-NSF sources	1,219	257,137	100,000	50,000	582,891	10,000,000	0
Q.5.1 Total hours of preparation for submitting this proposal	1,640	151	100	100	199	5,000	1
Q.5.12 Number of peer-reviewed articles published in past five years as primary author	1,711	15	10	5	19	275	0
Q.5.2.1 Percent of hours devoted to intellectual content of proposal preparation	1,767	67	70	80	18	100	5
Q.5.2.2 Percent of hours devoted to mechanics of proposal preparation	1,768	33	30	20	18	100	0
Q.5.5 Total number of current NSF grants funding ongoing body of research	760	2	1	1	10	236	0
Q.5.11 Percent of time spent conducting research in each of the following ways:							
1 Part of team with researchers from other disciplines	1,760	14	10	0	17	100	0
2 Part of team with senior investigators in same discipline	1,760	27	20	20	21	100	0
3 Individually with students and post doctoral assistants	1,760	52	50	50	27	100	0
4 Other	1,760	7	0	0	18	100	0
Q.5.13 Number in following categories working on current research projects:							
1 Undergraduate Students	1,432	2	1	0	3	50	0
2 Graduate Students	1,643	4	3	2	8	300	0
3 Post-doctoral fellows	1,490	2	1	1	3	100	0
Award Amount	1,783	383,559	265,000	300,000	627,378	15,062,146	300
Award Duration	1,783	3	3	3	1	6	1
Requested Amount	1,783	496,410	336,265	100,000	756,021	15,062,148	300
Requested Duration	1,783	3	3	3	1	6	0

\* All values rounded to nearest whole number

**TABLE 5 - A\*****DIRECTORATE: BIO**

QUESTION	COUNT	MEAN	MEDIAN	MODE	STANDARD DEVIATION	MAXIMUM	MINIMUM
Q.3.5 Additional grants needed to get funding	739	2	2	2	1	15	0
Q.3.1 Additional years needed to accomplish key goals	668	3	2	2	3	30	0
Q.3.2 Percentage of goals achieved with 2001 NSF research grant	769	37	33	50	22	100	2
Q.3.3 Additional funding from all sources needed to achieve goals	757	1,387,569	500,000	500,000	7,380,671	200,000,000	0
Q.3.4 Percentage of additional amount appropriate for NSF to fund	682	69	70	100	30	100	0
Q.5.6 Total amount of annual funding from other NSF grants	285	289,906	100,000	100,000	287,934	3,000,000	0
Q.5.9 Total number of current non-NSF funding sources	581	3	2	1	2	21	0
Q.5.10 Total amount of annual funding from non-NSF sources	591	257,137	90,000	50,000	369,822	6,000,000	0
Q.5.1 Total hours of preparation for submitting this proposal	750	151	150	200	262	5,000	20
Q.5.12 Number of peer-reviewed articles published in past five years as primary author	799	15	7	5	12	125	0
Q.5.2.1 Percent of hours devoted to intellectual content of proposal preparation	817	67	75	80	17	98	5
Q.5.2.2 Percent of hours devoted to mechanics of proposal preparation	817	33	25	20	17	95	2
Q.5.5 Total number of current NSF grants funding ongoing body of research	291	2	1	1	1	10	0
Q.5.11 Percent of time spent conducting research in each of the following ways:							
1 Part of team with researchers from other disciplines	816		10	0	14	100	0
2 Part of team with senior investigators in same discipline	816	14	15	10	17	100	0
3 Individually with students and post doctoral assistants	816	27	70	80	25	100	0
4 Other	816	52	0	0	16	100	0
Q.5.13 Number in following categories working on current research projects:							
1 Undergraduate Students	754	7	2	2	3	20	0
2 Graduate Students	748		3	2	2	30	0
3 Post-doctoral fellows	724	2	1	0	2	20	0
Award Amount	819	4	330,000	330,000	559,959	5,803,691	6,257
Award Duration	819	2	3	3	1	6	1
Requested Amount	819	383,559	413,337	35,000	746,443	10,907,169	10,000
Requested Duration	819	3	3	3	1	6	1

\* All values rounded to nearest whole number

**TABLE 5 - B\*****DIRECTORATE: CSE**

QUESTION	COUNT	MEAN	MEDIAN	MODE	STANDARD DEVIATION	MAXIMUM	MINIMUM
Q.3.5 Additional grants needed to get funding	516	3	2	2	2	15	0
Q.3.1 Additional years needed to accomplish key goals	438	2	2	2	3	30	0
Q.3.2 Percentage of goals achieved with 2001 NSF research grant	533	36	30	20	22	100	0
Q.3.3 Additional funding from all sources needed to achieve goals	522	1,342,306	750,000	500,000	2,037,995	23,000,000	0
Q.3.4 Percentage of additional amount appropriate for NSF to fund	476	66	66	50	25	100	0
Q.5.6 Total amount of annual funding from other NSF grants	310	212,482	100,000	100,000	445,878	5,250,000	0
Q.5.9 Total number of current non-NSF funding sources	410	3	2	1	11	219	0
Q.5.10 Total amount of annual funding from non-NSF sources	413	227,429	100,000	50,000	385,413	5,000,000	0
Q.5.1 Total hours of preparation for submitting this proposal	540	149	100	100	293	6,000	2
Q.5.12 Number of peer-reviewed articles published in past five years as primary author	579	15	12	5	15	108	0
Q.5.2.1 Percent of hours devoted to intellectual content of proposal preparation	597	71	75	80	16	98	10
Q.5.2.2 Percent of hours devoted to mechanics of proposal preparation	597	29	25	20	16	90	2
Q.5.5 Total number of current NSF grants funding ongoing body of research	318	2	2	1	1	8	0
Q.5.11 Percent of time spent conducting research in each of the following ways:							
1 Part of team with researchers from other disciplines	596	15	10	10	15	90	0
2 Part of team with senior investigators in same discipline	596	24	20	20	17	100	0
3 Individually with students and post doctoral assistants	596	56	60	50	23	100	0
4 Other	596	4	0	0	13	100	0
Q.5.13 Number in following categories working on current research projects:							
1 Undergraduate Students	512	2	2	1	3	30	0
2 Graduate Students	572	5	5	2	4	40	0
3 Post-doctoral fellows	456	1	0	0	2	40	0
Award Amount	602	446,723	300,000	300,000	630,850	7,500,000	4,200
Award Duration	602	3	3	3	1	9	0
Requested Amount	602	635,041	416,157	500,000	1,000,268	13,037,189	4,200
Requested Duration	602	3	3	3	1	5	0

\* All values rounded to nearest whole number

TABLE 5 - C\*

## DIRECTORATE: ENG

QUESTION	COUNT	MEAN	MEDIAN	MODE	STANDARD DEVIATION	MAXIMUM	MINIMUM
Q.3.5 Additional grants needed to get funding	573	3	2	2	3	32	0
Q.3.1 Additional years needed to accomplish key goals	495	2	2	2	2	15	0
Q.3.2 Percentage of goals achieved with 2001 NSF research grant	585	36	30	20	22	100	0
Q.3.3 Additional funding from all sources needed to achieve goals	584	1,255,480	600,000	500,000	5,371,597	125,000,000	0
Q.3.4 Percentage of additional amount appropriate for NSF to fund	541	56	50	50	25	100	0
Q.5.6 Total amount of annual funding from other NSF grants	342	125,419	100,000	100,000	133,503	1,200,000	0
Q.5.9 Total number of current non-NSF funding sources	535	4	2	2	18	420	1
Q.5.10 Total amount of annual funding from non-NSF sources	545	273,892	150,000	200,000	606,523	10,000,000	2,000
Q.5.1 Total hours of preparation for submitting this proposal	589	165	120	100	215	3,500	1
Q.5.12 Number of peer-reviewed articles published in past five years as primary author	618	18	13	10	19	200	0
Q.5.2.1 Percent of hours devoted to intellectual content of proposal preparation	640	69	75	80	17	99	15
Q.5.2.2 Percent of hours devoted to mechanics of proposal preparation	641	31	25	20	18	100	1
Q.5.5 Total number of current NSF grants funding ongoing body of research	343	2	1	1	6	115	0
Q.5.11 Percent of time spent conducting research in each of the following ways:							
1 Part of team with researchers from other disciplines	638	18	15	10	15	100	0
2 Part of team with senior investigators in same discipline	638	19	20	10	15	100	0
3 Individually with students and post doctoral assistants	638	60	60	50	21	100	0
4 Other	638	3	0	0	11	100	0
Q.5.13 Number in following categories working on current research projects:							
1 Undergraduate Students	566	2	2	2	2	18	0
2 Graduate Students	634	6	5	4	12	300	0
3 Post-doctoral fellows	530	1	1	0	2	14	0
Award Amount	646	314,770	270,000	375,000	284,048	3,081,665	6,000
Award Duration	646	3	3	3	1	5	1
Requested Amount	646	377,941	330,836	375,000	382,785	3,941,299	6,000
Requested Duration	646	3	3	3	1	6	0

\* All values rounded to nearest whole number

**TABLE 5 - D\*****DIRECTORATE: GEO**

QUESTION	COUNT	MEAN	MEDIAN	MODE	STANDARD DEVIATION	MAXIMUM	MINIMUM
Q.3.5 Additional grants needed to get funding	689	3	2	2	2	20	0
Q.3.1 Additional years needed to accomplish key goals	623	3	2	2	3	25	0
Q.3.2 Percentage of goals achieved with 2001 NSF research grant	733	30	25	20	19	100	1
Q.3.3 Additional funding from all sources needed to achieve goals	705	1,871,095	500,000	500,000	16,476,572	300,000,000	0
Q.3.4 Percentage of additional amount appropriate for NSF to fund	655	71	75	100	26	100	0
Q.5.6 Total amount of annual funding from other NSF grants	485	156,849	100,000	100,000	196,547	2,085,000	0
Q.5.9 Total number of current non-NSF funding sources	597	2	2	1	2	30	1
Q.5.10 Total amount of annual funding from non-NSF sources	603	171,631	90,000	50,000	347,765	4,975,128	75
Q.5.1 Total hours of preparation for submitting this proposal	758	146	100	100	209	3,000	2
Q.5.12 Number of peer-reviewed articles published in past five years as primary author	770	8	6	5	7	74	0
Q.5.2.1 Percent of hours devoted to intellectual content of proposal preparation	790	67	70	80	18	99	10
Q.5.2.2 Percent of hours devoted to mechanics of proposal preparation	790	33	30	20	18	90	1
Q.5.5 Total number of current NSF grants funding ongoing body of research	487	3	2	1	11	236	0
Q.5.11 Percent of time spent conducting research in each of the following ways:							
1 Part of team with researchers from other disciplines	785	17	10	10	16	100	0
2 Part of team with senior investigators in same discipline	785	29	25	20	21	100	0
3 Individually with students and post doctoral assistants	785	49	50	50	25	100	0
4 Other	785	5	0	0	15	100	0
Q.5.13 Number in following categories working on current research projects:							
1 Undergraduate Students	645	2	1	1	2	15	0
2 Graduate Students	739	3	2	1	2	15	0
3 Post-doctoral fellows	660	1	1	0	1	7	0
Award Amount	803	270,255	201,878	300,000	335,445	3,870,189	9,847
Award Duration	803	3	3	3	1	5	1
Requested Amount	803	308,953	231,366	361,527	352,868	3,870,189	12,040
Requested Duration	803	3	3	3	1	6	0

\* All values rounded to nearest whole number

TABLE 5 - E\*

## DIRECTORATE: MPS

QUESTION	COUNT	MEAN	MEDIAN	MODE	STANDARD DEVIATION	MAXIMUM	MINIMUM
Q.3.5 Additional grants needed to get funding	1,013	2	2	1	2	30	0
Q.3.1 Additional years needed to accomplish key goals	847	3	2	2	3	40	0
Q.3.2 Percentage of goals achieved with 2001 NSF research grant	1,085	45	50	50	22	100	0
Q.3.3 Additional funding from all sources needed to achieve goals	1,074	751,492	300,000	500,000	2,274,025	50,000,000	0
Q.3.4 Percentage of additional amount appropriate for NSF to fund	938	70	75	100	29	100	0
Q.5.6 Total amount of annual funding from other NSF grants	397	319,730	75,000	0	2,177,990	30,000,000	0
Q.5.9 Total number of current non-NSF funding sources	793	2	1	1	9	219	0
Q.5.10 Total amount of annual funding from non-NSF sources	802	180,038	71,000	100,000	455,527	10,000,000	0
Q.5.1 Total hours of preparation for submitting this proposal	1,181	138	100	100	291	9,000	2
Q.5.12 Number of peer-reviewed articles published in past five years as primary author	1,256	17	12	10	23	500	0
Q.5.2.1 Percent of hours devoted to intellectual content of proposal preparation	1,282	67	70	80	18	100	5
Q.5.2.2 Percent of hours devoted to mechanics of proposal preparation	1,282	33	30	20	18	95	0
Q.5.5 Total number of current NSF grants funding ongoing body of research	411	1	1	1	1	8	0
Q.5.11 Percent of time spent conducting research in each of the following ways:							
1 Part of team with researchers from other disciplines	1,279	11	10	0	14	100	0
2 Part of team with senior investigators in same discipline	1,279	28	20	20	23	100	0
3 Individually with students and post doctoral assistants	1,279	53	50	50	28	100	0
4 Other	1,279	8	0	0	20	100	0
Q.5.13 Number in following categories working on current research projects:							
1 Undergraduate Students	1,027	1	1	0	2	18	0
2 Graduate Students	1,165	3	2	1	4	100	0
3 Post-doctoral fellows	1,086	2	1	0	4	100	0
Award Amount	1,290	350,454	250,187	300,000	593,952	15,062,146	10,000
Award Duration	1,290	3	3	3	1	6	1
Requested Amount	1,290	459,184	333,781	2,000,000	728,608	15,062,148	10,000
Requested Duration	1,290	3	3	3	1	5	1

\* All values rounded to nearest whole number

**TABLE 5 - F\*****DIRECTORATE: OD**

QUESTION	COUNT	MEAN	MEDIAN	MODE	STANDARD DEVIATION	MAXIMUM	MINIMUM
Q.3.5 Additional grants needed to get funding	110	3	2	2	2	20	1
Q.3.1 Additional years needed to accomplish key goals	99	4	2	1	6	40	0
Q.3.2 Percentage of goals achieved with 2001 NSF research grant	120	34	25	20	25	100	1
Q.3.3 Additional funding from all sources needed to achieve goals	111	1,169,239	500,000	500,000	2,950,569	30,000,000	0
Q.3.4 Percentage of additional amount appropriate for NSF to fund	100	75	80	100	25	100	0
Q.5.6 Total amount of annual funding from other NSF grants	94	247,928	150,000	50,000	274,592	1,600,000	0
Q.5.9 Total number of current non-NSF funding sources	88	2	2	1	2	15	0
Q.5.10 Total amount of annual funding from non-NSF sources	94	217,184	107,875	150,000	514,672	4,800,000	0
Q.5.1 Total hours of preparation for submitting this proposal	121	155	100	80	187	1,600	10
Q.5.12 Number of peer-reviewed articles published in past five years as primary author	125	7	6	8	5	25	0
Q.5.2.1 Percent of hours devoted to intellectual content of proposal preparation	128	65	70	70	18	95	20
Q.5.2.2 Percent of hours devoted to mechanics of proposal preparation	128	35	30	30	18	80	5
Q.5.5 Total number of current NSF grants funding ongoing body of research	96	3	2	1	2	9	0
Q.5.11 Percent of time spent conducting research in each of the following ways:							
1 Part of team with researchers from other disciplines	127	22	20	0	21	100	0
2 Part of team with senior investigators in same discipline	127	32	30	30	21	95	0
3 Individually with students and post doctoral assistants	127	38	35	20	26	100	0
4 Other	127	8	0	0	22	100	0
Q.5.13 Number in following categories working on current research projects:							
1 Undergraduate Students	98	2	2	1	5	50	0
2 Graduate Students	110	4	3	1	4	30	0
3 Post-doctoral fellows	88	1	1	0	1	6	0
Award Amount	130	367,552	224,410	40,000	589,736	5,490,000	10,168
Award Duration	130	3	3	3	1	5	1
Requested Amount	130	483,532	248,994	40,000	1,273,271	14,111,022	10,882
Requested Duration	130	3	3	3	1	5	0

\* All values rounded to nearest whole number

**TABLE 5 - G\*****DIRECTORATE: SBE**

QUESTION	COUNT	MEAN	MEDIAN	MODE	STANDARD DEVIATION	MAXIMUM	MINIMUM
Q.3.5 Additional grants needed to get funding	554	2	2	2	2	15	0
Q.3.1 Additional years needed to accomplish key goals	537	3	2	2	3	30	0
Q.3.2 Percentage of goals achieved with 2001 NSF research grant	594	32	25	20	22	100	0
Q.3.3 Additional funding from all sources needed to achieve goals	578	715,474	300,000	500,000	2,606,547	50,000,000	0
Q.3.4 Percentage of additional amount appropriate for NSF to fund	491	71	75	100	29	100	0
Q.5.6 Total amount of annual funding from other NSF grants	205	268,594	72,000	100,000	1,375,707	18,300,000	0
Q.5.9 Total number of current non-NSF funding sources	454	2	2	1	2	28	0
Q.5.10 Total amount of annual funding from non-NSF sources	459	174,722	50,000	100,000	546,557	8,000,000	0
Q.5.1 Total hours of preparation for submitting this proposal	593	144	100	100	182	2,000	5
Q.5.12 Number of peer-reviewed articles published in past five years as primary author	658	10	7	5	12	130	0
Q.5.2.1 Percent of hours devoted to intellectual content of proposal preparation	677	69	75	80	17	100	5
Q.5.2.2 Percent of hours devoted to mechanics of proposal preparation	676	31	25	20	17	95	0
Q.5.5 Total number of current NSF grants funding ongoing body of research	214	2	1	1	1	7	0
Q.5.11 Percent of time spent conducting research in each of the following ways:							
1 Part of team with researchers from other disciplines	676	15	10	0	18	100	0
2 Part of team with senior investigators in same discipline	676	29	25	0	23	100	0
3 Individually with students and post doctoral assistants	676	45	45	50	27	100	0
4 Other	676	10	0	0	23	100	0
Q.5.13 Number in following categories working on current research projects:							
1 Undergraduate Students	525	2	1	0	4	30	0
2 Graduate Students	621	3	3	1	3	18	0
3 Post-doctoral fellows	438	1	0	0	1	12	0
Award Amount	683	176,773	95,876	50,000	378,609	4,934,624	300
Award Duration	683	2	2	3	1	5	1
Requested Amount	683	229,000	123,981	18,000	457,006	4,987,770	300
Requested Duration	683	2	3	3	1	5	0

\* All values rounded to nearest whole number

**TABLE 6 - A\*****TYPE OF INSTITUTION: NON-ACADEMIC**

QUESTION	COUNT	MEAN	MEDIAN	MODE	STANDARD DEVIATION	MAXIMUM	MINIMUM
Q.3.5 Additional grants needed to get funding	152	3	2	1	2	11	0
Q.3.1 Additional years needed to accomplish key goals	153	3	2	2	5	40	0
Q.3.2 Percentage of goals achieved with 2001 NSF research grant	170	35	30	20	24	100	0
Q.3.3 Additional funding from all sources needed to achieve goals	165	1,361,656	500,000	500,000	2,605,299	20,000,000	0
Q.3.4 Percentage of additional amount appropriate for NSF to fund	140	65	75	100	31	100	0
Q.5.6 Total amount of annual funding from other NSF grants	78	215,816	100,000	100,000	343,749	2,000,000	0
Q.5.9 Total number of current non-NSF funding sources	158	3	2	2	3	21	0
Q.5.10 Total amount of annual funding from non-NSF sources	156	421,123	125,000	60,000	992,332	8,000,000	0
Q.5.1 Total hours of preparation for submitting this proposal	187	167	120	100	247	2,000	2
Q.5.12 Number of peer-reviewed articles published in past five years as primary author	192	10	6	5	13	111	0
Q.5.2.1 Percent of hours devoted to intellectual content of proposal preparation	197	67	75	80	19	96	10
Q.5.2.2 Percent of hours devoted to mechanics of proposal preparation	197	33	25	20	19	90	4
Q.5.5 Total number of current NSF grants funding ongoing body of research	82	5	1	1	26	236	0
Q.5.11 Percent of time spent conducting research in each of the following ways:	194	18	10	0	20	100	0
1 Part of team with researchers from other disciplines	194	34	30	0	26	100	0
2 Part of team with senior investigators in same discipline	194	31	25	0	27	100	0
3 Individually with students and post doctoral assistants	194	17	0	0	31	100	0
4 Other	120	3	1	1	5	50	0
Q.5.13 Number in following categories working on current research projects:	139	4.76	2.00	1.00	25.49	300.00	0.00
1 Undergraduate Students	126	2	1	1	3	25	0
2 Graduate Students	200	458,092	207,580	100,000	881,001	7,500,000	6,500
3 Post-doctoral fellows	200	3	3	3	1	5	1
Award Amount	200	601,834	262,518	.	1,218,799	13,037,189	6,500
Award Duration	200	3	3	3	1	5	0
Requested Amount	258	242,004	172,376	375,000	241,125	2,567,750	9,800
Requested Duration	258	3	3	3	1	5	0

\* All values rounded to nearest whole number

**TABLE 6 - B\*****TYPE OF INSTITUTION: NON-PHD**

QUESTION	COUNT	MEAN	MEDIAN	MODE	STANDARD DEVIATION	MAXIMUM	MINIMUM
Q.3.5 Additional grants needed to get funding	218	2	2	1	1	12	0
Q.3.1 Additional years needed to accomplish key goals	204	2	2	2	3	30	0
Q.3.2 Percentage of goals achieved with 2001 NSF research grant	237	46	50	50	22	100	3
Q.3.3 Additional funding from all sources needed to achieve goals	227	564,427	200,000	200,000	3,334,995	50,000,000	0
Q.3.4 Percentage of additional amount appropriate for NSF to fund	195	77	80	100	23	100	0
Q.5.6 Total amount of annual funding from other NSF grants	84	106,002	71,000	200,000	134,436	900,000	0
Q.5.9 Total number of current non-NSF funding sources	150	2	1	1	3	30	1
Q.5.10 Total amount of annual funding from non-NSF sources	149	97,403	25,000	10,000	218,328	1,700,000	133
Q.5.1 Total hours of preparation for submitting this proposal	235	153	100	100	167	2,000	10
Q.5.12 Number of peer-reviewed articles published in past five years as primary author	253	7	5	3	8	73	0
Q.5.2.1 Percent of hours devoted to intellectual content of proposal preparation	257	67	70	80	17	99	10
Q.5.2.2 Percent of hours devoted to mechanics of proposal preparation	257	33	30	20	17	90	1
Q.5.5 Total number of current NSF grants funding ongoing body of research	86	2	1	1	1	7	0
Q.5.11 Percent of time spent conducting research in each of the following ways:							
1 Part of team with researchers from other disciplines	257	11	5	0	16	100	0
2 Part of team with senior investigators in same discipline	257	23	20	0	22	100	0
3 Individually with students and post doctoral assistants	257	56	60	60	30	100	0
4 Other	257	10	0	0	24	100	0
Q.5.13 Number in following categories working on current research projects:							
1 Undergraduate Students	232	4	3	2	3	20	0
2 Graduate Students	161	3	2	0	3	30	0
3 Post-doctoral fellows	128	1	0	0	1	4	0
Award Amount	258	199,970	147,697	100,000	164,988	1,069,333	4,496
Award Duration	258	3	3	3	1	5	1
Requested Amount	258	242,004	172,376	375,000	241,125	2,567,750	9,800
Requested Duration	258	3	3	3	1	5	0

\* All values rounded to nearest whole number

**TABLE 6 - C\*****TYPE OF INSTITUTION: OTHER PHD**

QUESTION	COUNT	MEAN	MEDIAN	MODE	STANDARD DEVIATION	MAXIMUM	MINIMUM
Q.3.5 Additional grants needed to get funding	787	2	2	2	2	32	0
Q.3.1 Additional years needed to accomplish key goals	696	3	2	2	3	25	0
Q.3.2 Percentage of goals achieved with 2001 NSF research grant	834	38	30	50	22	100	0
Q.3.3 Additional funding from all sources needed to achieve goals	812	1,098,725	500,000	500,000	10571518.28	3	0
Q.3.4 Percentage of additional amount appropriate for NSF to fund	725	66	65	100	28	100	0
Q.5.6 Total amount of annual funding from other NSF grants	316	110,433	80,000	100,000	118,103	900,000	0
Q.5.9 Total number of current non-NSF funding sources	623	3	2	1	17	420	0
Q.5.10 Total amount of annual funding from non-NSF sources	636	158,249	75,000	50,000	266,045	2,500,000	0
Q.5.1 Total hours of preparation for submitting this proposal	837	173	120	100	297	6,000	1
Q.5.12 Number of peer-reviewed articles published in past five years as primary author	893	12	8	5	12	120	0
Q.5.2.1 Percent of hours devoted to intellectual content of proposal preparation	919	69	75	80	17	99	5
Q.5.2.2 Percent of hours devoted to mechanics of proposal preparation	919	31	25	20	17	95	1
Q.5.5 Total number of current NSF grants funding ongoing body of research	320	2	1	1	1	9	0
Q.5.11 Percent of time spent conducting research in each of the following ways:							
1 Part of team with researchers from other disciplines	913	14	10	0	16	100	0
2 Part of team with senior investigators in same discipline	913	24	20	10	20	100	0
3 Individually with students and post doctoral assistants	913	57	60	50	26	100	0
4 Other	913	5	0	0	16	100	0
Q.5.13 Number in following categories working on current research projects:							
1 Undergraduate Students	766	2	2	1	3	30	0
2 Graduate Students	862	3	3	2	4	100	0
3 Post-doctoral fellows	705	1	1	0	4	100	0
Award Amount	922	261,315	229,120	300,000	274,491	4,200,000	2,650
Award Duration	922	3	3	3	1	6	0
Requested Amount	922	336,047	279,508	375,000	393,860	4,957,871	2,650
Requested Duration	922	3	3	3	1	6	0

\* All values rounded to nearest whole number

**TABLE 6 - D\*****TYPE OF INSTITUTION: NSF FUNDING TOP 20**

QUESTION	COUNT	MEAN	MEDIAN	MODE	STANDARD DEVIATION	MAXIMUM	MINIMUM
Q.3.5 Additional grants needed to get funding	1,029	3	2	2	2	30	0
Q.3.1 Additional years needed to accomplish key goals	907	3	2	2	3	40	0
Q.3.2 Percentage of goals achieved with 2001 NSF research grant	1,092	34	30	20	21	100	0
Q.3.3 Additional funding from all sources needed to achieve goals	1,062	1,291,983	500,000	500,000	7,867,418	250,000,000	0
Q.3.4 Percentage of additional amount appropriate for NSF to fund	958	66	60	100	28	100	0
Q.5.6 Total amount of annual funding from other NSF grants	597	319,901	100,000	100,000	1,809,361	30,000,000	0
Q.5.9 Total number of current non-NSF funding sources	916	2	2	1	2	30	0
Q.5.10 Total amount of annual funding from non-NSF sources	930	256,735	111,000	100,000	665,216	10,000,000	0
Q.5.1 Total hours of preparation for submitting this proposal	1,118	138	100	100	162	3,000	2
Q.5.12 Number of peer-reviewed articles published in past five years as primary author	1,188	15	10	5	22	500	0
Q.5.2.1 Percent of hours devoted to intellectual content of proposal preparation	1,217	68	70	80	18	100	5
Q.5.2.2 Percent of hours devoted to mechanics of proposal preparation	1,218	32	30	20	18	100	0
Q.5.5 Total number of current NSF grants funding ongoing body of research	616	2	2	1	1	9	0
Q.5.11 Percent of time spent conducting research in each of the following ways:							
1 Part of team with researchers from other disciplines	1,221	14	10	0	15	90	0
2 Part of team with senior investigators in same discipline	1,221	26	20	20	21	100	0
3 Individually with students and post doctoral assistants	1,221	55	60	50	25	100	0
4 Other	1,221	5	0	0	15	100	0
Q.5.13 Number in following categories working on current research projects:							
1 Undergraduate Students	1,030	2	1	0	2	20	0
2 Graduate Students	1,179	4	3	2	3	23	0
3 Post-doctoral fellows	1,060	1	1	0	2	21	0
Award Amount	1,238	383,290	282,034	300,000	650,496	15,062,146	300
Award Duration	1,238	3	3	3	1	6	1
Requested Amount	1,238	503,532	351,868	375,000	824,368	15,062,148	300
Requested Duration	1,238	3	3	3	1	6	0

\* All values rounded to nearest whole number

**TABLE 6 - E\*****TYPE OF INSTITUTION: NSF FUNDING TOP 21-50**

QUESTION	COUNT	MEAN	MEDIAN	MODE	STANDARD DEVIATION	MAXIMUM	MINIMUM
Q.3.5 Additional grants needed to get funding	1,077	2	2	2	2	20	0
Q.3.1 Additional years needed to accomplish key goals	956	3	2	2	3	30	0
Q.3.2 Percentage of goals achieved with 2001 NSF research grant	1,126	37	30	20	22	100	1
Q.3.3 Additional funding from all sources needed to achieve goals	1,114	1,035,217	500,000	500,000	6,094,005	200,000,000	0
Q.3.4 Percentage of additional amount appropriate for NSF to fund	1,013	68	70	100	28	100	0
Q.5.6 Total amount of annual funding from other NSF grants	584	188,263	100,000	100,000	794,297	18,300,000	0
Q.5.9 Total number of current non-NSF funding sources	870	2	2	1	2	28	0
Q.5.10 Total amount of annual funding from non-NSF sources	880	178,670	100,000	100,000	258,694	3,000,000	0
Q.5.1 Total hours of preparation for submitting this proposal	1,167	152	100	100	168	2,400	8
Q.5.12 Number of peer-reviewed articles published in past five years as primary author	1,238	14	10	5	17	275	0
Q.5.2.1 Percent of hours devoted to intellectual content of proposal preparation	1,274	69	75	80	18	100	10
Q.5.2.2 Percent of hours devoted to mechanics of proposal preparation	1,273	31	25	20	18	90	1
Q.5.5 Total number of current NSF grants funding ongoing body of research	587	2	1	1	1	8	0
Q.5.11 Percent of time spent conducting research in each of the following ways:							
1 Part of team with researchers from other disciplines	1,273	15	10	0	16	100	0
2 Part of team with senior investigators in same discipline	1,273	26	20	20	20	100	0
3 Individually with students and post doctoral assistants	1,273	54	50	50	25	100	0
4 Other	1,273	6	0	0	16	100	0
Q.5.13 Number in following categories working on current research projects:							
1 Undergraduate Students	1,065	2	1	0	2	25	0
2 Graduate Students	1,223	4	3	2	3	30	0
3 Post-doctoral fellows	1,055	1	1	0	2	20	0
Award Amount	1,284	348,277	250,000	300,000	450,703	5,803,691	4,950
Award Duration	1,284	3	3	3	1	9	1
Requested Amount	1,284	454,357	320,411	100,000	675,912	10,907,169	4,950
Requested Duration	1,284	3	3	3	1	6	0

\* All values rounded to nearest whole number

**TABLE 6 - F\*****TYPE OF INSTITUTION: NSF FUNDING TOP 51-100**

QUESTION	COUNT	MEAN	MEDIAN	MODE	STANDARD DEVIATION	MAXIMUM	MINIMUM
Q.3.5 Additional grants needed to get funding	945	2	2	2	2	20	0
Q.3.1 Additional years needed to accomplish key goals	805	3	2	2	3	30	0
Q.3.2 Percentage of goals achieved with 2001 NSF research grant	975	38	30	50	22	100	0
Q.3.3 Additional funding from all sources needed to achieve goals	965	1,267,199	500,000	500,000	7,960,357	200,000,000	0
Q.3.4 Percentage of additional amount appropriate for NSF to fund	864	68	70	100	29	100	0
Q.5.6 Total amount of annual funding from other NSF grants	466	166,092	96,000	100,000	311,159	3,500,000	0
Q.5.9 Total number of current non-NSF funding sources	757	3	2	1	12	219	0
Q.5.10 Total amount of annual funding from non-NSF sources	772	160,215	80,000	100,000	287,441	5,000,000	0
Q.5.1 Total hours of preparation for submitting this proposal	1,003	167	104	100	360	9,000	7
Q.5.12 Number of peer-reviewed articles published in past five years as primary author	1,057	13	10	10	14	130	0
Q.5.2.1 Percent of hours devoted to intellectual content of proposal preparation	1,083	69	75	80	17	99	5
Q.5.2.2 Percent of hours devoted to mechanics of proposal preparation	1,083	31	25	20	17	95	1
Q.5.5 Total number of current NSF grants funding ongoing body of research	476	2	1	1	5	115	0
Q.5.11 Percent of time spent conducting research in each of the following ways:							
1 Part of team with researchers from other disciplines	1,075	14	10	0	15	100	0
2 Part of team with senior investigators in same discipline	1,075	25	20	20	20	100	0
3 Individually with students and post doctoral assistants	1,075	55	60	50	25	100	0
4 Other	1,075	6	0	0	17	100	0
Q.5.13 Number in following categories working on current research projects:							
1 Undergraduate Students	927	2	2	1	3	30	0
2 Graduate Students	1,038	4	3	2	3	40	0
3 Post-doctoral fellows	918	1	1	0	2	40	0
Award Amount	1,087	340,714	264,600	375,000	472,587	5,490,000	4,312
Award Duration	1,087	3	3	3	1	6	1
Requested Amount	1,087	436,824	325,502	375,000	653,880	14,111,022	4,312
Requested Duration	1,087	3	3	3	1	6	0

\* All values rounded to nearest whole number

TABLE 7 - A\*

## TOTAL FUNDING: 2001 GRANT ONLY

QUESTION	COUNT	MEAN	MEDIAN	MODE	STANDARD DEVIATION	MAXIMUM	MINIMUM
Q.3.5 Additional grants needed to get funding	709	2	1	1	1	10	0
Q.3.1 Additional years needed to accomplish key goals	657	3	2	2	3	30	0
Q.3.2 Percentage of goals achieved with 2001 NSF research grant	785	46	50	50	22	100	0
Q.3.3 Additional funding from all sources needed to achieve goals	748	444,694	275,000	500,000	1,091,677	25,000,000	0
Q.3.4 Percentage of additional amount appropriate for NSF to fund	649	80	100	100	26	100	0
Q.5.6 Total amount of annual funding from other NSF grants	0	.	.	.	.	.	.
Q.5.9 Total number of current non-NSF funding sources	0	.	.	.	.	.	.
Q.5.10 Total amount of annual funding from non-NSF sources	0	.	.	.	.	.	.
Q.5.1 Total hours of preparation for submitting this proposal	812	144	100	100	162	2,000	1
Q.5.12 Number of peer-reviewed articles published in past five years as primary author	879	10	7	5	19	500	0
Q.5.2.1 Percent of hours devoted to intellectual content of proposal preparation	908	70	75	80	17	100	10
Q.5.2.2 Percent of hours devoted to mechanics of proposal preparation	908	30	25	20	17	90	0
Q.5.5 Total number of current NSF grants funding ongoing body of research	0	.	.	.	.	.	.
Q.5.11 Percent of time spent conducting research in each of the following ways:							
1 Part of team with researchers from other disciplines	902	10	5	0	15	100	0
2 Part of team with senior investigators in same discipline	902	28	20	0	25	100	0
3 Individually with students and post doctoral assistants	902	50	50	50	30	100	0
4 Other	902	12	0	0	25	100	0
Q.5.13 Number in following categories working on current research projects:							
1 Undergraduate Students	673	2	1	0	2	25	0
2 Graduate Students	769	2	2	1	2	18	0
3 Post-doctoral fellows	626	1	0	0	1	15	0
Award Amount	933	262,943	192,699	300,000	376,336	7,500,000	7,560
Award Duration	933	3	3	3	1	5	1
Requested Amount	933	349,184	255,393	375,000	549,480	13,037,189	7,560
Requested Duration	933	3	3	3	1	5	0

\* All values rounded to nearest whole number

TABLE 7 - B\*

## TOTAL FUNDING: 2001 GRANT AND OTHER NSF GRANT

QUESTION	COUNT	MEAN	MEDIAN	MODE	STANDARD DEVIATION	MAXIMUM	MINIMUM
Q.3.5 Additional grants needed to get funding	385	2	2	1	2	15	0
Q.3.1 Additional years needed to accomplish key goals	346	2	2	2	3	20	0
Q.3.2 Percentage of goals achieved with 2001 NSF research grant	404	39	30	20	23	100	0
Q.3.3 Additional funding from all sources needed to achieve goals	404	64,947	400,000	500,000	1,371,951	23,000,000	0
Q.3.4 Percentage of additional amount appropriate for NSF to fund	359	80	100	100	25	100	0
Q.5.6 Total amount of annual funding from other NSF grants	438	48,655	80,000	100,000	1,863,576	30,000,000	0
Q.5.9 Total number of current non-NSF funding sources	0	.	.	.	.	.	.
Q.5.10 Total amount of annual funding from non-NSF sources	0	.	.	.	.	.	.
Q.5.1 Total hours of preparation for submitting this proposal	423	162	100	100	306	5,000	8
Q.5.12 Number of peer-reviewed articles published in past five years as primary author	432	12	8	10	12	140	0
Q.5.2.1 Percent of hours devoted to intellectual content of proposal preparation	451	67	70	80	18	97	5
Q.5.2.2 Percent of hours devoted to mechanics of proposal preparation	451	33	30	20	18	95	3
Q.5.5 Total number of current NSF grants funding ongoing body of research	444	2	1	1	12	236	0
Q.5.11 Percent of time spent conducting research in each of the following ways:	447	15	10	0	17	100	0
1 Part of team with researchers from other disciplines	447	28	25	20	21	100	0
2 Part of team with senior investigators in same discipline	447	51	50	50	25	100	0
3 Individually with students and post doctoral assistants	447	6	0	0	16	100	0
4 Other	375	2	1	0	2	15	0
Q.5.13 Number in following categories working on current research projects:	426	2.96	3.00	2.00	2.22	15.00	0.00
1 Undergraduate Students	354	1	0	0	1	15	0
2 Graduate Students	452	45,256	250,000	300,000	475,087	4,200,000	7,000
3 Post-doctoral fellows	452	3	3	3	1	6	1
Award Amount	452	39,487	313,106	375,000	611,493	4,366,797	7,000
Award Duration	452	3	3	3	1	6	0
Requested Amount	933	349,184	255,393	375,000	549,480	13,037,189	7,560
Requested Duration	933	3	3	3	1	5	0

\* All values rounded to nearest whole number

**TABLE 7 - C\*****TOTAL FUNDING: 2001 GRANT AND OTHER NON-NSF GRANT**

QUESTION	COUNT	MEAN	MEDIAN	MODE	STANDARD DEVIATION	MAXIMUM	MINIMUM
Q.3.5 Additional grants needed to get funding	1,588	2	2	2	2	32	0
Q.3.1 Additional years needed to accomplish key goals	1,374	3	2	2	3	40	0
Q.3.2 Percentage of goals achieved with 2001 NSF research grant	1,657	37	30	50	21	100	0
Q.3.3 Additional funding from all sources needed to achieve goals	1,631	1,149,866	500,000	500,000	8,200,313	250,000,000	0
Q.3.4 Percentage of additional amount appropriate for NSF to fund	1,461	62	50	100	28	100	0
Q.5.6 Total amount of annual funding from other NSF grants	0	.	.	.	.	.	.
Q.5.9 Total number of current non-NSF funding sources	1,799	2	2	1	11	420	0
Q.5.10 Total amount of annual funding from non-NSF sources	1,814	179,644	75,000	50,000	449,695	10,000,000	0
Q.5.1 Total hours of preparation for submitting this proposal	1,681	164	120	100	281	9,000	4
Q.5.12 Number of peer-reviewed articles published in past five years as primary author	1,815	13	9	5	13	125	0
Q.5.2.1 Percent of hours devoted to intellectual content of proposal preparation	1,844	69	75	80	18	99	5
Q.5.2.2 Percent of hours devoted to mechanics of proposal preparation	1,845	31	25	20	18	100	1
Q.5.5 Total number of current NSF grants funding ongoing body of research	0	.	.	.	.	.	.
Q.5.11 Percent of time spent conducting research in each of the following ways:							
1 Part of team with researchers from other disciplines	1,843	14	10	0	16	100	0
2 Part of team with senior investigators in same discipline	1,843	24	20	10	20	100	0
3 Individually with students and post doctoral assistants	1,843	57	60	50	26	100	0
4 Other	1,843	6	0	0	18	100	0
Q.5.13 Number in following categories working on current research projects:							
1 Undergraduate Students	1,572	2	2	0	3	50	0
2 Graduate Students	1,728	3	3	2	3	26	0
3 Post-doctoral fellows	1,468	1	1	0	2	25	0
Award Amount	1,852	305,251	250,000	300,000	367,634	5,072,963	300
Award Duration	1,852	3	3	3	1	9	1
Requested Amount	1,852	392,034	315,192	375,000	461,358	5,000,000	300
Requested Duration	1,852	3	3	3	1	5	0

\* All values rounded to nearest whole number

**TABLE 7 - D\*****TOTAL FUNDING: 2001 GRANT, OTHER NSF GRANT AND OTHER NON-NSF GRANT**

QUESTION	COUNT	MEAN	MEDIAN	MODE	STANDARD DEVIATION	MAXIMUM	MINIMUM
Q.3.5 Additional grants needed to get funding	1,526	3	2	2	2	30	0
Q.3.1 Additional years needed to accomplish key goals	1,344	3	2	2	3	30	0
Q.3.2 Percentage of goals achieved with 2001 NSF research grant	1,588	32	25	20	21	100	0
Q.3.3 Additional funding from all sources needed to achieve goals	1,562	1,611,030	600,000	500,000	9,816,780	300,000,000	0
Q.3.4 Percentage of additional amount appropriate for NSF to fund	1,426	64	60	100	27	100	0
Q.5.6 Total amount of annual funding from other NSF grants	1,687	195,643	100,000	100,000	719,485	19,000,000	0
Q.5.9 Total number of current non-NSF funding sources	1,675	3	2	1	6	219	0
Q.5.10 Total amount of annual funding from non-NSF sources	1,709	219,227	100,000	100,000	474,869	10,000,000	0
Q.5.1 Total hours of preparation for submitting this proposal	1,631	154	100	100	236	6,000	2
Q.5.12 Number of peer-reviewed articles published in past five years as primary author	1,695	16	10	5	19	275	0
Q.5.2.1 Percent of hours devoted to intellectual content of proposal preparation	1,744	68	70	80	18	100	5
Q.5.2.2 Percent of hours devoted to mechanics of proposal preparation	1,743	32	30	20	18	95	1
Q.5.5 Total number of current NSF grants funding ongoing body of research	1,723	2	1	1	1	10	0
Q.5.11 Percent of time spent conducting research in each of the following ways:							
1 Part of team with researchers from other disciplines	1,741	17	15	10	15	100	0
2 Part of team with senior investigators in same discipline	1,741	25	20	20	18	100	0
3 Individually with students and post doctoral assistants	1,741	54	55	50	23	100	0
4 Other	1,741	4	0	0	12	100	0
Q.5.13 Number in following categories working on current research projects:							
1 Undergraduate Students	1,520	2	2	1	3	30	0
2 Graduate Students	1,679	5	4	4	8	300	0
3 Post-doctoral fellows	1,544	2	1	1	3	100	0
Award Amount	1,752	404,962	282,658	300,000	664,967	15,062,146	4,200
Award Duration	1,752	3	3	3	1	6	0
Requested Amount	1,752	527,254	339,283	375,000	927,347	15,062,148	4,200
Requested Duration	1,752	3	3	3	1	6	0

\* All values rounded to nearest whole number

**APPENDIX G – B**

**MEASURE OF CENTRAL TENDENCY CONSTRUCTED VARIABLES:  
PRINCIPAL INVESTIGATOR SURVEY**

**TABLE 1 - A\*****TOTAL**

<b>CONSTRUCTED VARIABLES</b>	<b>COUNT</b>	<b>MEAN</b>	<b>MEDIAN</b>	<b>STANDARD DEVIATION</b>	<b>MAXIMUM</b>	<b>MINIMUM</b>
Option 1: Award Efficiency and Effectiveness Deviation from Requested Award Amount	4,989	39,674	4,263	146,775	4,841,975	-153,438
Option 2: Award Efficiency and Effectiveness Percent of Research Being Funded	4,425	180,707	85,169	431,891	11,708,731	0
Option 4: Award Efficiency and Effectiveness NSF's Contribution	3,895	135,201	60,000	907,352	32,000,000	0
Difference in FY 2001 Award Amount Request and Amount Awarded	4,989	106,140	83,333	119,835	3,012,429	100
Difference in FY 2001 Duration Request and Duration Award	4,989	<1	0	1	4	-4
Additional Duration Needed	3,721	5	5	3	43	<1

\* All values rounded to nearest whole number

**TABLE 2 - A\*****TYPE OF RESEARCH: THEORETICAL**

<b>CONSTRUCTED VARIABLES</b>	<b>COUNT</b>	<b>MEAN</b>	<b>MEDIAN</b>	<b>STANDARD DEVIATION</b>	<b>MAXIMUM</b>	<b>MINIMUM</b>
Option 1: Award Efficiency and Effectiveness Deviation from Requested Award Amount	1,863	34,223	5,393	117,862	3,029,861	-121,503
Option 2: Award Efficiency and Effectiveness Percent of Research Being Funded	1,573	134,277	62,369	246,901	5,563,352	0
Option 4: Award Efficiency and Effectiveness NSF's Contribution	1,330	93,981	50,000	225,730	5,000,000	0
Difference in FY 2001 Award Amount Request and Amount Awarded	1,863	86,261	68,616	89,728	1,131,055	1,600
Difference in FY 2001 Duration Request and Duration Award	1,863	<1	0	1	4	-4
Additional Duration Needed	1,253	5	5	3	33	1

\* All values rounded to nearest whole number

**TABLE 2 - B\*****TYPE OF RESEARCH: LABORATORY**

<b>CONSTRUCTED VARIABLES</b>	<b>COUNT</b>	<b>MEAN</b>	<b>MEDIAN</b>	<b>STANDARD DEVIATION</b>	<b>MAXIMUM</b>	<b>MINIMUM</b>
Option 1: Award Efficiency and Effectiveness Deviation from Requested Award Amount	2,186	48,319	6,718	178,627	4,841,975	-152,637
Option 2: Award Efficiency and Effectiveness Percent of Research Being Funded	2,001	211,042	110,000	462,978	11,708,731	0
Option 4: Award Efficiency and Effectiveness NSF's Contribution	1,841	140,215	60,000	810,587	30,000,000	0
Difference in FY 2001 Award Amount Request and Amount Awarded	2,186	123,805	100,000	138,596	3,012,429	100
Difference in FY 2001 Duration Request and Duration Award	2,186	<1	0	1	4	-3
Additional Duration Needed	1,704	6	5	3	43	1

\* All values rounded to nearest whole number

**TABLE 2 - C\*****TYPE OF RESEARCH: FIELD**

<b>CONSTRUCTED VARIABLES</b>	<b>COUNT</b>	<b>MEAN</b>	<b>MEDIAN</b>	<b>STANDARD DEVIATION</b>	<b>MAXIMUM</b>	<b>MINIMUM</b>
Option 1: Award Efficiency and Effectiveness Deviation from Requested Award Amount	902	29,252	1	110,027	1,724,204	-153,438
Option 2: Award Efficiency and Effectiveness Percent of Research Being Funded	828	197,045	85,225	596,993	10,940,312	0
Option 4: Award Efficiency and Effectiveness NSF's Contribution	703	198,661	70,000	1,653,984	32,000,000	0
Difference in FY 2001 Award Amount Request and Amount Awarded	902	104,815	75,005	119,438	1,153,030	1,840
Difference in FY 2001 Duration Request and Duration Award	902	<1	0	1	4	-4
Additional Duration Needed	740	6	5	4	43	1

\* All values rounded to nearest whole number

**TABLE 3 - A\*****DIRECTORATE: BIO**

<b>CONSTRUCTED VARIABLES</b>	<b>COUNT</b>	<b>MEAN</b>	<b>MEDIAN</b>	<b>STANDARD DEVIATION</b>	<b>MAXIMUM</b>	<b>MINIMUM</b>
Option 1: Award Efficiency and Effectiveness Deviation from Requested Award Amount	819	67,641	12,498	235,645	4,841,975	-152,637
Option 2: Award Efficiency and Effectiveness Percent of Research Being Funded	769	224,469	112,602	557,143	11,708,731	0
Option 4: Award Efficiency and Effectiveness NSF's Contribution	682	145,793	60,000	1,155,878	30,000,000	0
Difference in FY 2001 Award Amount Request and Amount Awarded	819	135,370	108,362	142,925	1,500,000	6,257
Difference in FY 2001 Duration Request and Duration Award	819	<1	0	1	4	-3
Additional Duration Needed	668	6	5	4	33	1

\* All values rounded to nearest whole number

**TABLE 3 - B\*****DIRECTORATE: CSE**

<b>CONSTRUCTED VARIABLES</b>	<b>COUNT</b>	<b>MEAN</b>	<b>MEDIAN</b>	<b>STANDARD DEVIATION</b>	<b>MAXIMUM</b>	<b>MINIMUM</b>
Option 1: Award Efficiency and Effectiveness Deviation from Requested Award Amount	602	57,215	16,443	136,790	1,314,332	-40,232
Option 2: Award Efficiency and Effectiveness Percent of Research Being Funded	531	244,394	122,621	418,514	5,641,733	0
Option 4: Award Efficiency and Effectiveness NSF's Contribution	476	163,441	90,000	240,731	2,400,000	0
Difference in FY 2001 Award Amount Request and Amount Awarded	602	131,891	96,412	140,164	1,500,000	4,200
Difference in FY 2001 Duration Request and Duration Award	602	<1	0	1	2	-4
Additional Duration Needed	438	5	5	3	33	<1

\* All values rounded to nearest whole number

**TABLE 3 - D\*****DIRECTORATE: GEO**

<b>CONSTRUCTED VARIABLES</b>	<b>COUNT</b>	<b>MEAN</b>	<b>MEDIAN</b>	<b>STANDARD DEVIATION</b>	<b>MAXIMUM</b>	<b>MINIMUM</b>
Option 1: Award Efficiency and Effectiveness Deviation from Requested Award Amount	803	20,244	1	57,443	711,697	-121,503
Option 2: Award Efficiency and Effectiveness Percent of Research Being Funded	733	162,353	108,001	209,908	3,096,151	0
Option 4: Award Efficiency and Effectiveness NSF's Contribution	655	205,307	75,000	1,711,443	32,000,000	0
Difference in FY 2001 Award Amount Request and Amount Awarded	803	92,121	77,168	75,290	774,038	4,919
Difference in FY 2001 Duration Request and Duration Award	803	<1	0	1	4	-2
Additional Duration Needed	623	5	5	3	30	1

\* All values rounded to nearest whole number

**TABLE 3 - E\*****DIRECTORATE: MPS**

<b>CONSTRUCTED VARIABLES</b>	<b>COUNT</b>	<b>MEAN</b>	<b>MEDIAN</b>	<b>STANDARD DEVIATION</b>	<b>MAXIMUM</b>	<b>MINIMUM</b>
Option 1: Award Efficiency and Effectiveness Deviation from Requested Award Amount	1,290	40,108	11,102	140,487	3,521,350	-153,438
Option 2: Award Efficiency and Effectiveness Percent of Research Being Funded	1,082	156,448	60,201	472,384	10,377,272	0
Option 4: Award Efficiency and Effectiveness NSF's Contribution	938	102,610	45,000	451,359	10,000,000	0
Difference in FY 2001 Award Amount Request and Amount Awarded	1,290	107,249	80,253	141,764	3,012,429	5,000
Difference in FY 2001 Duration Request and Duration Award	1,290	<1	0	1	4	-2
Additional Duration Needed	847	6	5	3	43	1

\* All values rounded to nearest whole number

**TABLE 3 - C\*****DIRECTORATE: ENG**

<b>CONSTRUCTED VARIABLES</b>	<b>COUNT</b>	<b>MEAN</b>	<b>MEDIAN</b>	<b>STANDARD DEVIATION</b>	<b>MAXIMUM</b>	<b>MINIMUM</b>
Option 1: Award Efficiency and Effectiveness Deviation from Requested Award Amount	646	24,062	0	68,926	765,890	-64,263
Option 2: Award Efficiency and Effectiveness Percent of Research Being Funded	583	179,931	112,500	273,860	2,842,000	0
Option 4: Award Efficiency and Effectiveness NSF's Contribution	541	111,182	60,000	441,674	10,000,000	0
Difference in FY 2001 Award Amount Request and Amount Awarded	646	99,400	80,000	68,551	780,000	6,000
Difference in FY 2001 Duration Request and Duration Award	646	<1	0	<1	4	-2
Additional Duration Needed	495	5	5	2	18	1

\* All values rounded to nearest whole number

**TABLE 3 - F\*****DIRECTORATE: SBE**

<b>CONSTRUCTED VARIABLES</b>	<b>COUNT</b>	<b>MEAN</b>	<b>MEDIAN</b>	<b>STANDARD DEVIATION</b>	<b>MAXIMUM</b>	<b>MINIMUM</b>
Option 1: Award Efficiency and Effectiveness Deviation from Requested Award Amount	683	29,966	333	149,485	3,029,861	-47,339
Option 2: Award Efficiency and Effectiveness Percent of Research Being Funded	592	121,533	45,121	513,591	10,940,312	0
Option 4: Award Efficiency and Effectiveness NSF's Contribution	491	79,424	40,000	243,501	5,000,000	0
Difference in FY 2001 Award Amount Request and Amount Awarded	683	64,287	50,480	82,306	986,925	100
Difference in FY 2001 Duration Request and Duration Award	683	<1	0	1	4	-4
Additional Duration Needed	537	5	4	3	33	1

\* All values rounded to nearest whole number

**APPENDIX G - C**

**CROSS TABULATIONS: PRINCIPAL INVESTIGATOR SURVEY**

		Q1.1aFIRSTaIMEa SUBMISSIONaORaAa REVISIONa			Q1.2aWHATaYPEa INGa			OFaRESEARCHaISa FUNDEDa			Fundinga			Durationa			PROFESSIONaAGEa		
		Total	issuing	First timea submissio- niona	Rev.aof preva declinedaNSFa prop.a	heore - Resear- cha	Labora- torya Resear- cha	Fielda Resear- cha	5+%	5+%	< 5% Increa- sea	Decre- sea	< 5% Changea	1+ayra Increa- sea	1+ayra Decre- sea	< 1 yra changea	0-10 Yearsa	11-20 Yearsa	21+ Yearsa
		%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	
Q1.1aFIRSTaIMEa SUBMISSIONaORaAa REVISIONa																			
issuinga		0	0	.	.	13	0	0	0	2	0	0	.	0	0	0	0	1	
Firstatimea submissiona		71	.	71	.	71	77	68	63	65	70	72	66	66	71	69	69	74	
Rev.aofapreva declinedaNSFa prop.a		29	.	.	29	16	23	31	37	33	30	28	34	34	28	31	31	26	
ot al		100	0	71	29	100	100	100	100	100	100	100	100	100	100	100	100	100	
N		4989	19	3521	1449	38	1863	2186	908	123	2533	2333	92	485	4412	1496	1710	1783	

2001 NSF GRANT AWARD SURVEY

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Table 1

		Q1.1a FIRSTaIMEa SUBMISSIONaORaAa REVISIONa			Q1.2aWHATaYPEa OFaRESEARCHaISa INGa FUNDEDa			Fundinga			Durationa			PROFESSIONaAGEa				
		otal	issing	Rev.aof Firsta timea submis- siona	preva declin- edanSFa prop.	issing	heore - tical Resear- cha	Labora- torya Resear- cha	Fielda Resear- cha	5+%	5+%	< 5% Increa- sea	1+ayr Decre- sea	1+ayra Increa- sea	< 1 yra Decre- sea	0-10 Yearsa	11-20 Yearsa	21+ Years
		%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	
Q1.2aWHATa YPEa OFa RESEARCHaISa INGa FUNDEDa																		
issinga	1	26	1	0	1	.	.	.	.	1	1	1	1	1	1	1	1	
heoretical Researcha	37	32	41	29	.	37	.	.	37	39	35	38	34	38	42	35	36	
Laboratorya Researcha	44	37	42	47	.	.	44	.	41	45	43	37	47	44	41	46	44	
Fielda Researcha	18	5	16	23	.	.	.	18	23	15	21	24	18	18	16	19	19	
otal	100	100	100	100	1	37	44	18	100	100	100	100	100	100	100	100	100	
N	4989	19	3521	1449	38	1863	2186	908	123	2533	2333	92	485	4412	1496	1710	1783	

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Table 2

		Q1.1a FIRSTaIMEa SUBMISSIONaORaAa REVISIONa			Q1.2 WHAT TYPE OF RESEARCH IS INGa FUNDEDa						Fundinga			Durationa			PROFESSIONaAGEa		
		Total	issuing	Firsta timea submis- siona	Rev.aof preva declin- edanSFa prop.a	heore - tical Resear- cha	Labora- torya Resear- cha	Fielda Resear- cha	5+%	5+%	Decre- sea	< 5% Changea	1+ayra Increa- sea	1+ayra Decre- sea	< 1 yra changea	0-10 Yearsa	11-20 Yearsa	21+a Yearsa	
		%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a		
Q3.11a ADDITIONAL YEARSaNEEDEDa ACCOMPLISHa GOALSa																			
doanotaknowa	25	37	26	23	37	33	22	18	28	25	25	22	13	27	30	23	25		
Low(0-1)	27	21	27	27	39	25	27	31	30	25	29	41	20	27	30	29	22		
mid(1+ -3)	32	16	31	35	11	31	35	30	22	36	29	14	52	31	28	34	35		
High(GTa3)a	15	26	15	15	13	12	16	21	20	14	17	23	15	15	13	14	19		
total	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
N	4989	19	3521	1449	38	1863	2186	908	123	2533	2333	92	485	4412	1496	1710	1783		

2001 NSF GRANT AWARD SURVEY

Banner 1  
Table 3

	REVISION	Q1.1a FIRST TIMEa SUBMISSIONa OR Aa			Q1.2a WHAT TYPEa OF a RESEARCH IS a INGa FUNDED a			Funding a			Duration a			PROFESSIONAL a AGE a				
		Total	issuing	Rev. a of preva declin- ed aNSFa prop.a	issuing	heore- tical Resear- cha	Labora- torya Resear- cha	Fielda Resear- cha	5+a Increa- sea	5+a Decreas- e	< 5% Changea	1+ayra Increa- sea	1+ayra Decreas- e	< 1 yra changea	0-10 Yearsa	11-20 Yearsa	21+ Yearsa	
		%a	%	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a		
Q3.21a PERCENTa ACHIEVED IN a FIVE a YEARS a WITH a AWARD a																		
do not know a	11	16	12	9	29	16	8	8	12	12	10	13	11	11	11	10	12	
Low (0-25)	38	42	38	38	47	31	40	47	40	34	42	33	49		37	39	38	
Med (25+-50)	31	26	30	34	8		32	31	32	33	30	33	25	37	32	31	31	
High (GTa50)a	20	16	20	20	16	31	22	19	15	16	21	18	22	15	20	20	19	20
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
N	4989	19	3521	1449	38	1863	2186	908	123	2533	2333	92	485	4412	1496	1710	1783	

2001 NSF GRANT AWARD SURVEY

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Table 4

		Q1.1a FIRST TIMEa SUBMISSIONa OR Aa REVISIONa			Q1.2a WHAT TYPEa OF RESEARCH IS INGa FUNDEDa			Fundinga			Durationa			PROFESSIONALa AGEa				
		Total	issuing	First time submis- siona	Rev. aof preva declin- ed aNSFa prop.a	issuing	heore - tical Resear- cha	Labora- torya Resear- cha	Fielda Resear- cha	5+%a Increa- sea	5+%a Decre- sea	< 5%a Changea	1+ayra Increa- sea	1+ayra Decre- sea	< 1 yra changea	0-10 Yearsa	11-20 Yearsa	21+ Yearsa
		%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	
Q3.31a ADDITIONAL FUNDS aNEEDED a ACCOMPLISH a GOALS a																		
do not know a	13	21	13	12	29	19	8	13	19	14	12	12	11	13	15	11	12	
Low(0-300000)	32	26	32	33	24	39	26	33	33	31		26	28	33	34	31	32	
id(300000+ - 750000)a	28	32	27	29	26	22	32	27	25	28	27	27	33	27		27	28	
High(GTa 750000)a	27	21	28	26	21	20	34	27	24	28	27	35	28	27	23	30	27	
Total	100	100	100	100	100	100	100	100	100	100		100	100	100	100	100	100	
N	4989	19	3521	1449	38	1863	2186	908	123	2533	100 2333	92	485	4412	1496	1710	1783	

2001 NSF GRANT AWARD SURVEY

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Table 5

		Q1.1a FIRSTaIMEa SUBMISSIONaORaAa			Q1.2aWHATaYPEa OFaRESEARCHaISa INGa FUNDEDa			Fundinga			Durationa			PROFESSIONaAGEa				
		REVISaON	Rev.aof preva declin- edNSFa submis- siona	Rev.aof preva declin- edNSFa issing	heore- tical Resear- cha	Labora- torya Resear- cha	Fielda Resear- cha	5+a Increa- sea	5+a Decreas- e	< 5% Changea	1+ayra Increa- sea	1+ayra Decreas- e	< 1 yra changea	0-10 Yearsa	11-20 Yearsa	21+ Yearsa		
		otal	issing	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a		
Q3.41a ADDITIONALa AMOUNTa PERCENTaNSFa SHOULDaFUNDa																		
.a	15		16	13	39	22	9	14	24	15	15	13	12	15	17	13	15	
doanotaknowa	7	26	.	7	7	5	7	6	8	7	7	6	10	7	7	8	6	6
issinga	0	.	0	0	.	0	0	.	.	0	0	.	.	0	0	.	0	0
Low(0-50)	33	26	33	33	24	27	42	26	24		35	30	31	33	33	35	31	
mid(50+ -90)	20		19	22	16	18	19	27	19	32	20	20	27	23	19	19	22	19
High(GTa90)a	25	26	21	25	25	16	27	24	26	26	26	24	20	27	25	23	23	29
otal	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
2001 NSF GRANTaAWARD SURVEY989		19	3521	1449	38	1863	2186	908	123	2533	2333	92	485	4412	1496	1710	1783	

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Table 6

		Q1.1a FIRST TIMEa SUBMISSION OR A REVISIONa			Q1.2a WHAT TYPEa OF RESEARCH ISa INGa FUNDEDa			Fundinga			Durationa			PROFESSIONAL AGE				
		Total	issuing	First timea submissio- n	Rev. aof preva- declin- ed aNSFa prop.a	issuing	heore - tical Resear- cha	Labora- torya Resear- cha	Fielda Resear- cha	5+% Increa- sea	5+% Decre- sea	< 5% Changea	1+ayra Increa- sea	1+ayra Decre- sea	< 1 yra changea	0-10 Yearsa	11-20 Yearsa	21+ Yearsa
		%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%	%a	%a	
Q3.12a GREATESTa IMPACT ON RESEARCHANDa ACTIVITIESa																		
.a		10	21	11	8	39	16	6	8	17	10	10	11	6	10	8	10	
issuinga		1	5	1	1	3	1		1	.	1	1	1	0	1	1	1	
More funding		54	47	53	57	34	46	0	58	61	44	56	52	59	53	54	56	
Longer durationa		35	26		35	24	37	36	30	39	33	38	29	41	35	30	40	
Total		100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
N		4989	19	3521	1449	38	1863	2186	908	123	2533	2333	92	485	4412	1496	1710	1783

2001 NSF GRANT AWARD SURVEY

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Table 7

		Q1.1a FIRST TIMEa SUBMISSIONa OR Aa REVISIONa				Q1.2a WHAT TYPEa OF a RESEARCH a IS a IN Ga FUNDED a				Funding a				Duration a				PROFESSIONAL a AGE a		
		Total	issuing	First a timea submis- sion a	Rev. a of preva declin- ed a NSF a prop. a	issuing	heore - tical Resear- cha	Labora- torya Resear- cha	Field Resear- cha	5+% Increa- sea	5+% Decre- sea	< 5% Changea	1+ayra Increasea	1+ayra Decreasea	< 1 yra changea	0-10 Yearsa	11-20 Yearsa	21+ Yearsa		
		%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	
Q4.21a FIRST a IMPORTA NTa ACTION a FOR a AWARD a IN a AREA																				
issuing a		1	11	1	1	8	1	0	1	1	1	1	1	1	1	1	1	1	1	
Increasea amounta fundinga pera awarda		40	63	40	38	47	35	43	39	32	44	35	43	40	39	36	38	44		
Increasea lengtha ofa timea pera awarda		24	5	25	22	13	26	25	17	20	24	24	22	29	23	22	26	24		
Increasea total ofa awardsa pera awarda		36	21	34	40	32	38	31	42	47	31	40	34	30	36	42	35	31		
2001 NSF GRANT AWARD SURVEY		100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
N		4989	19	3521	1449	38	1863	2186	908	123	2533	2333	92	485	4412	1496	1710	1783		

Banner 1  
Table 8

Q4.21a	SECONDa	Q1.1a FIRSTa IMEa SUBMISSIONa ORaAa REVISIONa				Q1.2a WHATa PEA OFa RESEARCHa ISa INGa FUNDEDa				Fundinga				Durationa				PROFESSIONa AGEa		
		Total	Issuing	Firsta timea submis- sion	Rev.a of preva declin- edaNSFa prop.a	issuing	heore - tical Resear- cha	Labora- tory Resear- cha	Fielda Resear- cha	5+&a Increa- sea	5+&a Decre- sea	< 5% Changea	1+ayra Increa- sea	1+ayra Decre- sea	< 1 yra changea	0-10 Yearsa	11-20 Yearsa	21+ Yearsa		
		%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a		
Q4.22a	SECONDa																			
IMPORTANTa	ACTIONa FORa AWARDa INa AREA																			
issinga		1	11	1	1	8	1	1	2		1	1	1	1	1	1	1	2		
Increasea amounta fundinga pera awarda		36	16	35	37	32	34	36	39	33	34	38	36	36	36	38	36	33		
Increasea lengtha ofa timea pera awarda			53	38	37	45	39	37	36	43	38	37	33	36	38	36	38	39		
Increasea total ofa awardsa pera awarda		37																		
SP GRANT AWARD SURVEY	26	21	26	25	16	26	27	23	23	27	24	30	26	25	25	26	26	26		
total		100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
N		4989	19	3521	1449	38	1863	2186	908	123	2533	2333	92	485	4412	1496	1710	1783		

Banner 1  
Table 9

		Q1.1a FIRSTa TIMEa SUBMISSIONaORaAa REVISIONa			Q1.2a WHAT TYPE OF RESEARCH IS INGa FUNDEDa					Fundinga			Durationa			PROFESSIONaAGEa			
		otal	issing	Firsta timea submis- siona	Rev.aof preva declin- edNSFa prop.a	heore - tical Resear- cha	Labora- torya Resear- cha	Fielda Resear- cha	5+%	5+%	Decre- sea	< 5% a Changea	1+ayra Increa- sea	1+ayra Decre- sea	< 1 yr changea	0-10 Yearsa	11-20 Yearsa	21+a Yearsa	
		%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a		
		Q4.23a HIRDa IMPORTANTa ACTIONaFORa AWARDaINaAREA																	
	issinga	2	11	2	1	8		1	2	2	1	2	1	1	2	1	1	2	
	Increasea amounta fundingapera awarda	23		23	24	13	30	20	20	34	21	26	20	23	24	25	25	21	
	Increasea lengthaofa timeapera awarda	38	11	32	36	40	34	34	38	45	35	37	38	45	34	38	42	35	36
	Increasea total ofa awardsapera awarda	37	47	39	34	45	35	41	33	29	41	35	35	42	37	32	38	41	
2001 NSF GRANT YEARS	AWARD SURVEY	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
	N	4989	19	3521	1449	38	1863	2186	908	123	2533	2333	92	485	4412	1496	1710	1783	

Banner 1  
Table 10

		Q1.1a FIRST TIMEa SUBMISSION OR A REVISIONa			Q1.2a WHAT TYPEa OF RESEARCH ISa INGa FUNDEDa			Fundinga			Durationa			PROFESSIONAL AGE				
		Total	First a timea submis- siona	Rev. aof preva declin- ed aNSFa prop.a	issuing	heore - tical Resear- cha	Labora- torya Resear- cha	Fielda Resear- cha	5+%	5+%	< 5% Changea	1+ayra Increa- sea	1+ayra Decre- sea	< 1 yr changea	0-10 Yearsa	11-20 Yearsa	21+a Yearsa	
		%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a		
Q5.11a PREPARATIONa HOURSa FORa SUBMITTINGa PROPOSALA																		
do not knowa	8	11	9	8	11	10	8	7	11	9	7	13	9	8	8	8		
missinga	0	5	0	0	3	1		1	.	0	0	1	1	0	10	0		
Low(0-80)	33	26	36	25	47	43	0	25	31	27	31	36	29	30	34	32	35	
mid(80+ -150)	29	42	28	31	11	27	32	28	32	29	29	30	31	29	29	30	28	
High(GTa150)a	29	16	26	36	29	19	35	33	30	30	27	26	30	29	30	30	29	
total	100	100	100	100	100	100		100	100	100	100	100	100	100	28	100	100	
N	4989	19	3521	1449	38	1863	100	2186	908	123	2533	2333	92	485	4412	1496	1710	1783

2001 NSF GRANT AWARD SURVEY

Banner 1  
Table 11

		Q1.1a FIRSTaIMEa SUBMISSIONaORaAa			Q1.2aWHATaYPEa OFaRESEARCHaISa INGa FUNDEDa			Fundinga			Durationa			PROFESSIONaAGEa			
		REVIStion	Rev.aof preva declin- edanSFa prop.a	issing	heore- tical Resear- cha	Labora- torya Resear- cha	Fielda Resear- cha	5+a Increa- sea	5+a Decreas- e	< 5% Changea	1+ayra Increa- sea	1+ayra Decreas- e	< 1 yra changea	0-10 Yearsa	11-20 Yearsa	21+ Yearsa	
		otal	issing	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	
Q5.4aNSFa FUNDINGaFORa OTHERa PROJECTSaOFA RESEARCHa																	
Do not knowa	1		1	0	3	1	1	0	2	1	1	1	1	1	1	1	
issinga	0	5	5	0	0	3	1	0	1	.	0	0	1	1	0	0	
Yesa	44	32	44	44	58	37	46	53	46	42	46	51	36	45	39	49	
noa	55	58	55	55	37	61	53	46	53		53	47	62	54	60	50	
otal	100		100	100	100	100	100	100	100	57	100	100	100	100	100	100	
N	4989	100	19	3521	1449	38	1863	2186	908	123	2533	2333	92	485	4412	1496	1710
																	1783

2001 NSF GRANT AWARD SURVEY

Banner 1  
Table 12

		Q1.1a FIRST TIME a SUBMISSIONa OR Aa REVISIONa			Q1.2a WHAT TYPE a OF a RESEARCH a IS a ING a FUNDED a			Funding a			Duration a			PROFESSIONAL a AGE a			
		Total	Missing	First time a submission	Rev. a of preva declin-ed a NSF a prop.a	heore-tical Resear-ch a	Labora-tory a Resear-ch a	Fielda Resear-ch a	5+ % Increase sea	5+ % Decrease sea	< 5% Change a	1+ year a Increase sea	1+ year a Decrease sea	< 1 yr a change a	0-10 Years a	11-20 Years a	21+ Years a
		%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a
Q5.6a ANNUAL a FUNDING a AMOUNT a FROM a OTHER a NSF a GRANTS a																	
.a	56	68	56	56	42	63	54	47	54	58	54	49	64	55	61	51	56
missing a	2	.	2	2	5	2	1	2	4	2	1	3	2	2	1	2	2
low(0-65000)	15	11	14	15	16	14	14	17	18	15	14	22	11	15		15	14
mid(60000+ - 140000)a	14	.	14	15	13	12	15	16	12	13	16	8	14	15	14	17	12
High(GT a 140000)a	14	21	14	13	24	9	16	18	11	13	15	18	10	14	9	16	16
total	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
2001 NSF GRANT a AWAR D SURVEY 989	19	3521	1449	38	1863	2186	908	123	2533	2333	92	485	4412	10496	1710	1783	

Banner 1  
Table 13

		Q1.1a FIRSTaIMEa SUBMISSIONaORaAa			Q1.2aWHATaYPEa OFaRESEARCHaISa INGa FUNDEDa			Fundinga			Durationa			PROFESSIONaAGEa				
		REVISiON	firsta timea submis- siona	Rev.aof preva declin- edanSFa prop.a	issing	heore- tical Resear- cha	Labora- torya Resear- cha	Fielda Resear- cha	5+a Increa- sea	5+a Decreas- e	< 5% Changea	1+ayra Increa- sea	1+ayra Decreas- e	< 1 yra changea	0-10 Yearsa	11-20 Yearsa	21+ Yearsa	
		otal	issing			%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	
Q5.8aDOaYOUa HAVEaNONaNSFa FUNDINGaFORa RESEARCHa																		
Doanotaknowa	0	5	0	0	8	0	0	0	.	0	0	.	0	0	0	0	1	
issinga	0	5	0	0	3	1	0	1	.	0	1	1	1	.	0	1	0	
Yea	72	68	72	73	68		79	75	77	71	74	74	68	0	73	72	70	
noa	27	21	27	26	21	64	35	21	24	23	29	25	25	32	26	27	25	29
otal	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
N	4989	19	3521	1449	38	1863	2186	908	123	2533	2333	92	485	4412	1496	1710	1783	

2001 NSF GRANT AWARD SURVEY

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Table 14

		Q1.1a FIRST TIMEa SUBMISSIONa OR Aa REVISIONa			Q1.2a WHAT TYPEa OF RESEARCH IS INGa FUNDEDa			Fundinga			Durationa			PROFESSIONALa AGEa			
		otal	issing	Firsta time submis- siona	Rev.a of preva declin- ed aNSFa prop.a	heore - tical Resear- cha	Labora- torya Resear- cha	Fielda Resear- cha	5+%a Increa- sea	5+%a Decrea- sea	< 5%a Changea	1+ayra Increa- sea	1+ayra Decrea- sea	< 1 yra changea	0-10 Yearsa	11-20 Yearsa	21+ Yearsa
		%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a
Q5.10a ANNUALa FUNDINGa AMOUNTa FROMa NONa NSFa SOURCESa																	
.a	28	32	28	27	32	36	21	25	23	29	26	26	32	27	28	25	30
missinga	2	.	2	2	11	2	1	2	6	2			3	2	1	2	1
Low(0-50000)	26	26		28	8	27	24	32	30	26	1	27	24	22	27	30	27
id(50000+ - 150000)a	21	16	26	21	22	18	19		20	25	20	22	18	22	21	24	21
High(GTa 150000)a	23	26	24	21	32	16	23	30	21	16	23		28	22	23	17	25
otal	100	100		100	100	100	100	100	100	100	23	100	100	100	100	100	100
2001 NSF GRANTa AWARD SURVEY9	19	100	3521	1449	38	1863	2186	908	123	2533	2333	92	485	4412	1496	1710	1783

Banner 1  
Table 15

		Q1.1a FIRST TIME a SUBMISSION OR Aa			Q1.2a WHAT TYPE a OF a RESEARCH IS a ING a FUNDED a			Funding a			Duration a			PROFESSIONAL AGE a				
		REVI SION otal	issing	Rev. a of preva declin- ed aNSFa siona	Rev. a of preva declin- ed aNSFa prop. a	issing	heore- tical Resear- cha	Labora- tory a Resear- cha	Field a Resear- cha	5+%	5+%	< 5%	1+ayra Increa- sea	1+ayra Decre- sea	< 1 yr a Change a	0-10 Years a	11-20 Years a	21+ Years a
										%a	%	%a	%a	%a	%a	%a	%a	
OTAL a FUNDING																		
2001 grants a only a		19	26	19	19	13	27	14	13	16	21	17	14	24	18	20	16	20
2001 grants a+a other aNSFa grant (Q5_4) a		9	5	10	8	18	9	8	12	7	9	10	12	9		8	9	10
2001 grants a+a non-nsf grant (Q5_8) a		37	42	37	37	29	36	40	34	38	37	37	35	40	37	41	35	37
2001 grants a+a other aNSF and nonaNSF grant		35	26	35	37	39	28	39	41	39	33	37	39	27		32	40	33
otal	N	100	100	100	100	100		100	100	100	100	100	100	100	36	100	100	100
2001 NSF GRANT AWARD SURVEY		4989	19	3521	1449	38	100 1863	2186	908	123	2533	2333	92	485	4412	1496	1710	1783

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Table 16

## NSF GRANT AWARD SURVEY

		Q1.1aFIRSTaIMBa SUBMISSIONaORaAa REVISION			Q1.2aWHATaYPEa INGa FUNDEDa			Fundinga			Durationa			PROFESSIONALaAGEa				
		Total	issuing	Firsta timea submis- siona	Rev.aof preva declin- edaNSFa prop.a	heore - Resear- cha	Labora- torya Resear- cha	Fielda Resear- cha	5+a sea	5+a Decrea- sea	< 5a Changea	1+aya Increa- sea	1+aya Decreasea	< 1 yra changea	0-10 Yearsa	11-20 Yearsa	21+ Yearsa	
		%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a	%a		
YPEa OFa INSTITUTIONa																		
NONACADA		4	.	4	4	3	3	3	8	5	3	5	4	4	4	3	4	5
NONPHDa		5	.	5	6	.	4	6	7	8	4	6	3	4	5	6	5	4
OTHPHDa		18	11	18	20	18	15	21	20	18	18	19	17	17	19	19	20	16
20a		25	53	26	21	34	28	23	23	24	25	24	23	25	25	24	22	28
21 -50		26	26	26	26	26	28	25	23	25	27	25	39	26	25	25	25	27
51 -100		22	11	21	23	18	23	22	19	20	22	21	13	24	22	22	23	20
Total 2001		100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
N		4989	19	3521	1449	38	1863	2186	908	123	2533	2333	92	485	4412	1496	1710	1783

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Table 17

		Q3.11nADDITIONALnYEARSnNEEDEDn ACCOMPLISHnGOALSn				Q3.21nPERCENTnACHIEVEDnNn FIVEN YEARSnWITHnAWARDn				Q3.31nADDITIONALnFUNDSnNEEDEDn ACCOMPLISHnGOALSn				Q1.3nNATIONAL INTERNATIONALn FACILITYn USE			
		Totaln	do notn known	ow(0 - 1)n	Mid(1+- 3)n	High(GT 3)n	do not known	ow(0 - 5)n	Midn (25+- 50)n	High(GT 50)n	do notn known	ow(0 - 300000)	Mid(30- 0000+- 750000)	High(GT 750000)	Missing	Non	Yesn
		%n	%n	%n	%n	%n	%n	%n	%n	%n	%n	%n	%n	%n	%n	%n	%n
Q1.1nFIRSTn TIMEn SUBMISSIONn AnEVISIONn																	
Missingn		0	1		0	1	1	0	0	0	1	0	0	0	10	0	0
Firstntime submission	71	73	0	71	68	71	76	71	68	71	73	70	69	72	58	71	71
ev.n ofnprevn declinednNSFn prop.n	9	6	9	31	9	3	9	31	9	7	30	31	8	32	9	9	9
Totaln	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
N	4989	1268	1338	1617	766	555	1891	1561	982	644	1616	1377	1352	50	4157	782	

2001 NSF GRANT AWARD SURVEY

Banner 2

Table 1

		Q3.11nADDITIONALnYEARSnNEEDEDn ACCOMPLISHnGOALSn				Q3.21nPERCENT ACHIEVED IN FIVE YEARSnWITHnAWARDn				Q3.31nADDITIONALnFUNDSnNEEDEDn ACCOMPLISHnGOALSn				Q1.3nNATIONALn INTERNATIONALn FACILITYn USE			
		Totaln	do notn known	ow(0 - 1)n	Mid(1+- 3)n	High(GT 3)n	do notn know	ow(0 - 5)n	Midn (25+- 50)n	High(GT 50)n	do notn known	ow(0 - 300000)	Mid(30- 0000+- 750000)	High(GT 750000)	Missing	Non	Yesn
			%n	%n	%n	%n	%n	%n	%n	%n	%n	%n	%n	%n	%n	%n	%n
Q1.2nWHATn TYPEFn ESEARCHn Sn BEINGnFUNDEDn																	
Missingn		1	1	1	0	1		1	0	1		1	1	1	0	1	1
Theoreticaln esearchn	37	48	35	35	8	52n	31	37	42n	54	45	30	7	30	41	0	
aboratoryn esearchn	44	38	43	48	46	33	46	45	43	7	35	51	55	38	44	43	
Fieldn esearchn	18	13	1	17	5	13		18	14	18	19	18	18	12n	15	36	
Totaln	100	100	100	100	100	100	22	100	100	100	100	100	100	100	100	100	
N	4989	1268	1338	1617	766	555	1891	1561	982	644	1616	1377	1352	50	4157	782	

2001 NSF GRANT AWARD SURVEY

Banner 2

Table 2

		Q3.11nADDITIONALnYEARSnNEEDEDn ACCOMPLISHnGOALSn				Q3.21nPERCENTnACHIEVEDnNn FIVEN YEARSnWITHnAWARDn				Q3.31nADDITIONALnFUNDSnNEEDEDn ACCOMPLISHnGOALSn				Q1.3nNATIONAL INTERNATIONALn FACILITYn USE			
		Totaln	do notn known	ow(0 - 1)n	Mid(1+- 3)n	High(GT 3)n	do not known	ow(0 - 5)n	Midn (25+- 50)n	High(GT 50)n	do notn known	ow(0 - 300000)	Mid(30- 0000+- 750000)	High(GT 750000)	Missing	Non	Yesn
			%n	%n	%n	%n	%n	%n	%n	%n	%n	%n	%n	%n	%n	%n	%n
Q3.11n ADDITIONALn YEARSnNEEDEDn ACCOMPLISHn GOALSn																	
do not known	5	5	.	.	.	.	66	19	1	58	0	0	1	34	26		
ow(0 -1)	7	.	7	.	.	.	16	30	26	8	18	32	7	5	0	7	6
Mid(1+-3)	32	.	.	32	.	.	13	31	36	41	18	38	34	31	8	32	32
High(GTn3)n	15	.	.	.	15	5	1	17	8	7	10	19			18	14	0
Totaln	100	5	7	32	15	100	100	100	100	100	100	100	100	100	100	100	100
N	4989	1268	1338	1617	766	555	1891	1561	982	644	1616	1377	1352	50	4157	782	

2001 NSF GRANT AWARD SURVEY

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Table 3

		Q3.11nADDITIONALnYEARSnNEEDEDn ACCOMPLISHnGOALSn				Q3.21nPERCENT ACHIEVED IN FIVE YEARSnWITHnAWARDn				Q3.31nADDITIONALnFUNDSnNEEDEDn ACCOMPLISHnGOALSn				Q1.3nNATIONALn INTERNATIONALn FACILITYn USE				
		Total	n	do not n known	ow(0 - 1)n	Mid(1+- 3)n	High(GT 3)n	do not n know	ow(0 - 5)n	Midn (25+- 50)n	High(GT 50)n	do not n known	ow(0 - 300000)	Mid(30- 0000+- 750000)	High(GT 750000)	Missing	Non	Yesn
			%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	
Q3.21nPERCENT ACHIEVEDnTn FIVEEnYEARSn WITHnAWARDn																		
do not known		11	9	7	5	3	11	.	.	.	.	40	8	7	6	18	12	8
ow(0 -25)		38	8	42	36	51	.	38	.	.	.	0	3	40	63	46	37	41
Midn(25+-50)		31	6	30	34	35	.	.	31	.	3	33	40	5	18	31	33	
High(GTn50)n		20	17	1	5	11	.	.	.	0	17	37	14	7	18	0	17	
Total		100	100	100	100	100	11	38	31	0	100	100	100	100	100	100	100	
N		4989	1268	1338	1617	766	555	1891	1561	982	644	1616	1377	1352	50	4157	782	

2001 NSF GRANT AWARD SURVEY

Banner 2  
Table 4

		Q3.11nADDITIONALnYEARSnNEEDEDn ACCOMPLISHnGOALSn				Q3.21nPERCENTnACHIEVEDnNn FIVEN YEARSnWITHnAWARDn				Q3.31nADDITIONALnFUNDSnNEEDEDn ACCOMPLISHnGOALSn				Q1.3nNATIONAL NTE RNATIONAL FACILITY USE			
		Totaln	do notn known	ow(0 - 1)n	Mid(1+- 3)n	High(GT 3)n	do notn known	ow(0 - 5)n	Midn (25+- 50)n	High(GT 50)n	do notn known	ow(0 - 300000)	Mid(30- 0000+- 750000)	High(GT 750000)	Missing	Non	Yesn
			%n	%n	%n	%n	%n	%	%n	%n	%n	%n	%n	%n	%n	%n	%n
Q3.31n ADDITIONALn FUNDSnNEEDEDn ACCOMPLISHn GOALSn																	
do not known	13	9	9	7	6	46	7	9	11	.	.	.	.	6	13	11	
ow(0 -300000)	32n	6		38	1	3	19	34	60	13	.	32n	.	.	4	34	6
Mid(300000+- 750000)n	8		38	7	9	34	17	9	35	19	.	.	8	.	30	7	9
High(GTn 750000)n	7	3	6	6	39	14	45		9	.	.	.	7		6	35	
Totaln	100	100	100	100	100	100		100	100	13	32n	8	7	20	100	100	
N	4989	1268	1338	1617	766	555	100	1891	1561	982	644	1616	1377	1352	50	4157	782

2001 NSF GRANT AWARD SURVEY

Banner 2  
Table 5

		Q3.11nADDITIONAL YEARS NEEDED ACCOMPLISHnGOALSn				Q3.21nPERCENTnACHIEVEDnNn FIVEN YEARSnWITHnAWARDn				Q3.31nADDITIONALnFUNDSnNEEDEDn ACCOMPLISHnGOALSn				Q1.3nNATIONAL INTERNATIONALn FACILITYn USEn			
		Totaln	do notn known	ow(0 - 1)n	Mid(1+- 3)n	High(GT 3)n	do notn known	ow(0 - 5)n	Midn (25+- 50)n	High(GT 50)n	do notn known	ow(0 - 300000)	Mid(30- 0000+- 750000)	High(GT 750000)	Missing	Non	Yesn
			%n	%n	%n	%n	%n	%n	%n	%n	%n	%n	%n	%n	%	%n	%n
Q3.41n ADDITIONALn AMOUNTn PERCENTnNSFn SHOULDnFUNDn	.n	15	32	12	8	7	49	8	11	15	100	7	.	.	30	15	12
do not known		7	9	7	6	4	7	5	8	9	.	.	7	5	.	7	6
Missingn		0	.	.	0	0	0	0	.	.	11	0	.	0	.	0	.
ow(0 -50)		33	5	36	0	35	37	15	44	33	.	1	39	58	36	34	31
Mid(50+-90)		0	14	1		4	9	3	1	17	.	18	8	3	18	19	6
High(GTn90)n		5	0	3	9	8	19	0	7	36	.	44	6	14	14	14	5
Totaln		100	100	100	100	100	100	100	100	100	100	100	100	100	25	100	100
N		4989	1268	1338	1617	766	555	1891	100 1561	982	644	1616	1377	1352	50	4157	782

2001 NSF GRANT AWARD SURVEY

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Table 6

		Q3.11nADDITIONAL YEARS NEEDED ACCOMPLISHnGOALSn				Q3.21nPERCENTnACHIEVEDnNn FIVEN YEARSnWITHnAWARDn				Q3.31nADDITIONALnFUNDSnNEEDEDn ACCOMPLISHnGOALSn				Q1.3nNATIONAL INTERNATIONALn FACILITYn USE			
		Totaln	do notn known	ow(0 - 1)n	Mid(1+- 3)n	High(GT 3)n	do notn known	ow(0 - 5)n	Midn (25+- 50)n	High(GT 50)n	do notn known	ow(0 - 300000)	Mid(30- 0000+- 750000)	High(GT 750000)	Missing	Non	Yesn
			%n	%n	%n	%n	%n	%n	%n	%n	%n	%n	%n	%n	%	%n	%n
Q3.12n GREATESTn MPACTn Nn ESEARCHn ANDn ACTIVITIESn	.n	10	32	7	.	.	42	5	5	9	66	5	.	.	0	10	7
Missingn		1	1	1	1	1	1	1	1	0	1			1		1	1
More fundingn		54	43	60	55		37	61	56	47	16	51	1	61	68	40	53
ongern duration		35	4	32	44	56	42	1	34	38	43	18	44	38	31	38	36
Totaln		100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
N		4989	1268	1338	1617	766	555	1891	1561	982	644	1616	1377	1352	50	4157	782

2001 NSF GRANT AWARD SURVEY

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Table 7

		Q3.11nADDITIONAL YEARS NEEDED ACCOMPLISHnGOALSn					Q3.21nPERCENTnACHIEVEDnNn FIVEN YEARSnWITHnAWARDn					Q3.31nADDITIONALnFUNDSnNEEDEDn ACCOMPLISHnGOALSn					Q1.3nNATIONAL INTERNATIONALn FACILITYn USEn		
		Totaln	do notn known	ow(0 - 1)n	Mid(1+- 3)n	High(GT 3)n	do notn known	ow(0 - 5)n	Midn (25+- 50)n	High(GT 50)n	do notn known	ow(0 - 300000)	Mid(30- 0000+- 750000)	High(GT 750000)	Missing	Non	Yesn		
			%n	%n	%n	%n	%n	%n	%n	%n	%n	%n	%n	%n	%	%n	%n		
	Q4.21nFIRSTn MPORTANTn ACTIONnFOR AWARDnNn AREA																		
	Missingn	1	1	1	1	1		1	1	1		1	1	1	6	1	1		
	crease amountn fundingnpern awardn	40	38	39		40	39	42n	39	37	31	32n	40	52n	36	39	43		
	crease lengthnofn time pern awardn	4	21	0	8	6	1	3	5	5	3	4	6		30	3	6		
	crease totalnofn awardsnpern yearn		39	40	31	33	38	34	35	38	45	43	33	6	8	37	30		
2001 NSF GRANT AWARD SURVEY	36	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
	N	4989	1268	1338	1617	766	555	1891	1561	982	644	1616	1377	1352	50	4157	782		

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Table 8

		Q3.11nADDITIONALnYEARSnNEEDEDn ACCOMPLISHnGOALSn				Q3.21nPERCENTnACHIEVEDnNn FIVEN YEARSnWITHnAWARDn				Q3.31nADDITIONALnFUNDSnNEEDEDn ACCOMPLISHnGOALSn				Q1.3nNATIONAL INTERNATIONAL FACILITY USE				
		Total	n	do not n known	ow(0 - 1)n	Mid(1+ - 3)n	High(GT 3)n	do not n known	ow(0 - 5)n	Midn (25+ - 50)n	High(GT 50)n	do not n known	ow(0 - 300000)	Mid(30- 0000+ - 750000)	High(GT 750000)	Missing	Non	Yesn
			%n	%n	%n	%n	%n	%n	%n	%n	%n	%n	%n	%n	%n	%n	%n	
	Q4.22nSECONDn MPORTANTn ACTIONnFORn AWARDnNn AREA																	
	Missingn	1	1	1	1	1	1	1	1	1	1	1	1	1	8	1		
	crease amountn fundingnpern awardn	36	34	38	35	36	34	37	36	33	38	35	37	34	42n	36	35	
	crease lengthnofn time pern awardn	37	38	36	39	37	37	37	36	41	39	39	34	38	32n	38	37	
	crease total of awardsnpern yearn	6	6	5	5	7	6	5	6	5	1	5	7	7	18	6	6	
2001 NSF GRANT AWARD SURVEY	Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
	N	4989	1268	1338	1617	766	555	1891	1561	982	644	1616	1377	1352	50	4157	782	

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Table 9

		Q3.11nADDITIONALnYEARSnNEEDEDn ACCOMPLISHnGOALSn				Q3.21nPERCENTnACHIEVEDnNn FIVEN YEARSnWITHnAWARDn				Q3.31nADDITIONALnFUNDSnNEEDEDn ACCOMPLISHnGOALSn				Q1.3nNATIONALn INTERNATIONALn FACILITYn USE				
		Totaln	do notn known	ow(0 - 1)n	Mid(1+ - 3)	High(GT 3)n	do notn known	ow(0 - 5)n	Midn (25+ - 50)n	High(GT 50)n	do notn known	ow(0 - 300000)	Mid(30- 0000+ - 750000)	High(GT 750000)	Missing	Non	Yesn	
			%n	%n	%n	%n	%n	%n	%n	%n	%n	%n	%n	%n	%n	%n	%n	
Q4.23nTHIRDn MPORTANTn ACTIONnFORn AWARDnNn AREA																		
Missingn						1	3		1	1		1		1	12n	1		
crease amountn fundingnpern awardn		3	6		3	3	5	0	4	9	9	31		13	12n	4	0	
crease lengthnofn time pern awardn		38	40	42n	32n	36	39	39	37	33	36	36	38	39	30	38	35	
crease totalnofn awardsnpern yearn		37	33	34	43	39	34	39	38	36	32n	31	38	47	46	36		
2001 NSF GRANT AWARD SURVEY	Totaln	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	43 100	
	N	4989	1268	1338	1617	766	555	1891	1561	100	982	644	1616	1377	1352	50	4157	782

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Table 10

		Q3.11nADDITIONAL YEARS NEEDED ACCOMPLISHnGOALSn				Q3.21nPERCENTnACHIEVEDnNn FIVEN YEARSnWITHnAWARDn				Q3.31nADDITIONALnFUNDSnNEEDEDn ACCOMPLISHnGOALSn				Q1.3nNATIONAL INTERNATIONALn FACILITYn USEn			
		Totaln	do notn known	ow(0 - 1)n	Mid(1+- 3)n	High(GT 3)n	do notn known	ow(0 - 5)n	Midn (25+- 50)n	High(GT 50)n	do notn known	ow(0 - 300000)	Mid(30- 0000+- 750000)	High(GT 750000)	Missing	Non	Yesn
			%n	%n	%n	%n	%n	%n	%n	%n	%n	%n	%n	%n	%	%n	%n
Q5.11n PREPARATIONn HOURSnFOR SUBMITTINGn PROPOSALn																	
do not known	8	14	7	7	6	0	7	7	8	19	7	7	6	12	9	5	
missingn	0	0	0	0	0	1	0	0	1	0		1	0	.	0	1	
ow(0 -80)	33	37	34		7	31	36	31	32	37	0	39	31	7	44	33	31
Mid(80+-150)	9	5	30	32	30	31	6	9	31	8	3	8	30	32	4	9	8
High(GTn150)n	9	4	8	31	35		8	31	32	0	5	31	35	0	8	35	
Totaln	100	100	100	100	100	100	100	100	100	100	100	100	100	100		100	
N	4989	1268	1338	1617	766	555	1891	1561	982	644	1616	1377	1352	50	100 4157	782	

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Table 11

		Q3.11nADDITIONAL YEARS NEEDED ACCOMPLISHnGOALSn				Q3.21nPERCENTnACHIEVEDnNn FIVEN YEARSnWITHnAWARDn				Q3.31nADDITIONALnFUNDSnNEEDEDn ACCOMPLISHnGOALSn				Q1.3nNATIONAL INTERNATIONALn FACILITYn USEn			
		Totaln	do notn known	ow(0 - 1)n	Mid(1+- 3)n	High(GT 3)n	do notn known	ow(0 - 5)n	Midn (25+- 50)n	High(GT 50)n	do notn known	ow(0 - 300000)	Mid(30- 0000+- 750000)	High(GT 750000)	Missing	Non	Yesn
			%n	%n	%n	%n	%n	%n	%n	%n	%n	%n	%n	%n	%	%n	%n
Q5.4nNSFn FUNDINGnFORn THERn PROJECTSnFn ESEARCHn																	
Do not known	1	1	0	1	0		0	0	1		1	0	0		1	1	1
Missingn	0	0	0	0	0	1	0	0	1	0		1	0		0	0	1
Yesn	44	41	48		46	38	54	40	36	37	0 34	46	57	44	42n	58	
non	55	58	51	43 56	53	59	45	60	63	61	65	53	42n	52n	57	41	
Totaln	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
N	4989	1268	1338	1617	766	555	1891	1561	982	644	1616	1377	1352	50	4157	782	

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Table 12

		Q3.11nADDITIONALnYEARSnNEEDEDn ACCOMPLISH GOALS				Q3.21nPERCENTnACHIEVEDnNn FIVEN YEARSnWITHnAWARDn				Q3.31 ADDITIONAL FUNDS NEEDED ACCOMPLISHnGOALSn				Q1.3nNATIONALn INTERNATIONALn FACILITYn USE			
		Totaln	do notn known	ow(0 - 1)n	Mid(1+- 3)n	High(GT 3)n	do notn known	ow(0 - 5)n	Midn (25+- 50)	High(GT 50)n	do notn known	ow(0 - 300000)	Mid(30- 0000+- 750000)	High(GT 750000)	Missing	Non	Yesn
			%n	%n	%n	%n	%n	%n	%n	%n	%n	%n	%n	%n	%n	%n	%n
Q5.6nANNUALn FUNDINGn AMOUNTnFROMn THERn NSF GRANTSn	.n	56	59	52n	57	54	62n	46	60	64	63	66	54	43	56	58	42n
missingn				1	1	1	3		1		5	1	1	1			
low(0-65000)	15	14	15	14	15	13	15	15	14	13	15	16	13	8	14	16	
Mid(60000+- 140000)n	14	13	17	14	13	11	19	12n	10	9	11	17	19	14	13	19	
High(GTn 140000)n	14	11	15	14	16	11	18	12n	9	10	7	12n	4	0	12n	1	
Totaln	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
N	4989	1268	1338	1617	766	555	1891	1561	982	644	1616	1377	1352	50	4157	782	

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Table 13

		Q3.11nADDITIONAL YEARS NEEDED ACCOMPLISHnGOALSn				Q3.21nPERCENTnACHIEVEDnNn FIVEN YEARSnWITHnAWARDn				Q3.31nADDITIONALnFUNDSnNEEDEDn ACCOMPLISHnGOALSn				Q1.3nNATIONAL INTERNATIONALn FACILITYn USEn			
		Totaln	do notn known	ow(0 - 1)n	Mid(1+- 3)n	High(GT 3)n	do notn known	ow(0 - 5)n	Midn (25+- 50)n	High(GT 50)n	do notn known	ow(0 - 300000)	Mid(30- 0000+- 750000)	High(GT 750000)	Missing	Non	Yesn
			%n	%n	%n	%n	%n	%n	%n	%n	%n	%n	%n	%n	%	%n	%n
Q5.8nDO YOU HAVE NONNSF FUNDING FOR RESEARCHn																	
Do not known		0	0	0	0	0	1	0	0	0	1	0	0	0		0	1
Missingn		0	1	0	0	1	1	0	0	1	0	0	1	0		0	1
Yesn		72	70	73	73	75	65	81	72	61	64	62	74	87	66	71	77
non		7	9	6	7	5	34	18	8	38	35	38	5	13	30	8	22
Totaln		100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
N		4989	1268	1338	1617	766	555	1891	1561	982	644	1616	1377	1352	50	4157	782

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Table 14

		Q3.11nADDITIONAL YEARS NEEDED ACCOMPLISHnGOALSn				Q3.21nPERCENTnACHIEVEDnNn FIVEN YEARSnWITHnAWARDn				Q3.31nADDITIONALnFUNDSnNEEDEDn ACCOMPLISHnGOALSn				Q1.3nNATIONAL INTERNATIONALn FACILITYn USEn			
		Totaln	do notn known	ow(0 - 1)n	Mid(1+- 3)n	High(GT 3)n	do notn known	ow(0 - 5)n	Midn (25+- 50)n	High(GT 50)n	do notn known	ow(0 - 300000)	Mid(30- 0000+- 750000)	High(GT 750000)	Missing	Non	Yesn
			%n	%n	%n	%n	%n	%n	%n	%n	%n	%n	%n	%n	%	%n	%n
Q5.10nANNUALn FUNDINGn AMOUNTnFROM NONnNSFn SOURCESn																	
.n	8	30	7	7	5	35	19	8	39	36	38	6	13	34	9	3	
missingn					1	1	5	1	1	1	6		1	1	4		
ow(0 -50000)	6	7	7		6	8	4	7	8	6	1	34	7	16	4	7	5
Mid(50000+- 150000)n	1	0		26	1	1	16	3	4	16	14	15	8	6	8	1	4
High(GTn 150000)n	3	0		4	7	16	32	19	16	18	12	18	44	30		6	
Totaln	100	100	100	100	100	100	100		100	100	100	100	100	100	22	100	100
N	4989	1268	1338	1617	766	555	1891	100 1561	982	644	1616	1377	1352	50	4157	782	

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Table 15

		Q3.11nADDITIONAL YEARS NEEDED ACCOMPLISHnGOALSn				Q3.21nPERCENTnACHIEVEDnNn FIVEN YEARSnWITHnAWARDn				Q3.31nADDITIONALnFUNDSnNEEDEDn ACCOMPLISHnGOALSn				Q1.3nNATIONAL INTERNATIONALn FACILITYn USEn			
		Totaln	do notn known	ow(0 - 1)n	Mid(1+- 3)n	High(GT 3)n	do notn known	ow(0 - 5)n	Midn (25+- 50)n	High(GT 50)n	do notn known	ow(0 - 300000)	Mid(30- 0000+- 750000)	High(GT 750000)	Missing	Non	Yesn
		%n	%n	%n	%n	%n	%n	%n	%n	%n	%n	%n	%n	%n	%n	%n	
TOTALnFUNDING																%	
001n grantn onlyn		19		16	0	17	7	11	19	9	9	7	16	6	6	0	13
001n grantn+n other nsfn grant(Q5_4)		9	8	11	8	9	9	8	9	10	7	11	10	7	8	9	11
001n grantn+n non-nsf grant(Q5_8)n		37	38	36	38	37	35	35	41	35	34	38	37	37	30	39	9
001n grantn+n other nSFand non NSFgrant		35	32n	37	35	37	30	46	30	6	30	3	37	50	36	33	48
Totaln		100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
N		4989	1268	1338	1617	766	555	1891	1561	982	644	1616	1377	1352	50	4157	782

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Table 16

		Q3.11nADDITIONALnYEARSnNEEDEDn ACCOMPLISHnGOALSn					Q3.21nPERCENTnACHIEVEDnNn FIVE n YEARSnWITHnAWARDn				Q3.31nADDITIONALnFUNDSnNEEDEDn ACCOMPLISHnGOALSn				Q1.3nNATIONALn INTERNATIONALn FACILITY USEn		
		Totaln	donotn known	ow(0 - 1)n	Mid(1+- 3)n	High(GT 3)n	do not known	ow(0 - 5)n	Midn (25+- 50)n	High(GT 50)n	do notn known	ow(0 - 300000)	Mid(30- 0000+- 750000)	High(GT 750000)	Missing	Non	Yesn
			%n	%n	%n	%n	%n	%n	%n	%n	%	%n	%n	%n	%n	%n	%n
TYPEnFn NSTITUTIONn																	
NONACADn	4	4	4	4	5	5			4	3	5	4	3	5		4	6
NONPHD	5	4	7	6	4	4	4	4	5	9	5	9	4		10	5	5
THPHDn	18	18	18	18	1	16	18	0	18	17	0	0	16	14	19	18	
T20n	5	6	4	6	3	6	8	3	1	7		3	30	32	5	4	
T21-50	6	6	5	6	6	8	6		6	6	3	7	7	18	5	8	
T51-100				1		0	1	25	3	19		3	1	4		1	
Totaln	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
N	4989	1268	1338	1617	766	555	1891	1561	982	644	1616	1377	1352	50	4157	782	

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Table 17

		SFc Directoratec									Q5.11cPREPARATIONcHOURScFORcSUBMITTINGc				Q5.12cPEERcREVIEWcARTICLESc PUBLISHED:cLASTc5cYRS				
		PROPOSALc		do not c know c		missing		Low(0- 80)c	Mid(80+ 150)c	High(GTc 150)c	Missing		Low(0- 6)c	Mid(6+- 13)c	High(GTc 13)				
		otalc	BIOc	CSEc	EH Rc	ENGc	GEOc	MPSc	/Dc	SBEc	%c	%c	%c	%c	%c	%c	%c	%c	
Q1.1cFIRST TIME SUBMISSIONcRc REVISIONc																			
Missingc		0	0	.	.	1	0	1	.	0	0	5	0	1	0	2	0	1	0
First timec submissionc		71	62	74	94	69	63	79	67	73	72	68	77	69	64	76	68	69	74
Rev. of prev c declinedcSFc prop.		29	38	26	6	31	36	21	33	26	27	26	22	31	36	32	31	25	
otalc		100	100	100	100	100	100	100	100	100	100	100	100	100	100	23	100	100	100
N		4989	819	602	16	646	803	1290	130	683	423	19	1656	1452	1439	168	1797	1481	1543

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Table 1

otalc	SFC Directoratec										Q5.11cPREPARATIONcHOURS cFOR cSUBMITTING c PROPOSALc				Q5.12cPEERcREVIEWcARTICLES c PUBLISHED:cLAST 5 YRS			
		BIOc	CSEc	EHRC	ENGc	GEOc	MPSc	/Dc	SBEc	do not c know c	missing	Low(0- 80)c	Mid(80+ 150)c	High(GTc 150)c	Missing	Low(0- 6)c	Mid(6+- 13)c	High(GTc 13)
		%c	%c	%c	%c	%c	%c	%c	%c	%c	%c	%c	%c	%c	%c	%c	%c	%c
Q1.2cWHAT TYPE OF RESEARCHcSc BEINGc FUNDEDc																		
Missingc	1	1	1	.	1	1	1	.	1	1	5	1	0	1	2	1	1	1
theoreticalc Researchc	37	7	62	6	35	28	55	14	37	45	58	48		25	39	31	40	41
Laboratoryc Researchc	44	76	32	50	61	30	40	24	29	39	11	33	48	53	36	43	40	50
FieldcResearchc	18	17	5	44	3	41	5	62	33	15	26	17	17	21	23	25	19	8
otalc	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
N	4989	819	602	16	646	803	1290	130	683	423	19	1656	1452	1439	168	1797	1481	1543

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Table 2

SFC Directorate	Total										Q5.11c PREPARATION HOURS FOR SUBMITTING PROPOSAL				Q5.12c PEER REVIEW ARTICLES PUBLISHED LAST 5 YRS			
		BIO	CSE	EHRC	ENG	GEO	MPS	/DC	SBE	do not know	missing	Low (0-80) c	Mid (80+150) c	High (GTc150) c	Missing	Low (0-6) c	Mid (6+-13) c	High (GTc13) c
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
Q3.11c ADDITIONAL YEARS SEEDED C COMPLISH GOALS																		
do not know	25	18	27	13	23	22	34	24	21	41	26	28	22	21	26	25	26	25
Low (0-1)	27		31	44	28	31	20	35	31	23	26	28	28	26	27	27	28	25
Mid (1+-3)	32	25	34	31	38	37	32	31	17	33	25	32	31	34	34	32	31	32
High (GTc3) c	15	22	11	6	12	15	15	25	15	11	16	12	17	19	15	16	15	15
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
N	4989	819	602	16	646	803	1290	130	683	423	19	1656	1452	1439	168	1797	1481	1543

2001 NSF GRANT AWARD SURVEY

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Table 3

SFC Directorate	Total									Q5.11c PREPARATION HOURS FOR SUBMITTING PROPOSAL				Q5.12c PEER REVIEW ARTICLES PUBLISHED LAST 5 YRS				
		BIOc	CSEc	EHRC	ENGc	GEOc	MPSc	/Dc	SBEc	do not know c	missing	Low (0-80) c	Mid (80+150) c	High (GTc150) c	Missing	Low (0-6) c	Mid (6+-13) c	High (GTc13)
		%c	%c	%c	%c	%c	%c	%c	%c	%c	%c	%c	%c	%c	%c	%c	%c	
Q3.21 PERCENT ACHIEVED FIVE YEARS WITHIN 5 YEARS																		
do not know c	11	6	11	6	9	9	16	8	13	26	16	10	10	9	17	10	11	12
Low (0-25)	38	36	41	44	40	52	22	48	47	30	32	41	38	36	42	39	37	37
Mid (25+-50)	31	36	30	31	33	28	34	27	25	26	26	29	33	34	22	32	31	31
High (GTc50) c	20	22	18	19	18	11	28	18	15	17	26	19	19	19	18	21	21	
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	22	100	100	100	100
N	4989	819	602	16	646	803	1290	130	683	423	19	1656	1452	1439	168	1797	1481	1543

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Table 4

SFC Directorate	Total									Q5.11c PREPARATION HOURS FOR SUBMITTING PROPOSAL				Q5.12c PEER REVIEW ARTICLES PUBLISHED: LAST 5 YRS				
		BIOc	CSEc	EHRC	ENGc	GEOc	MPSc	/Dc	SBEc	do not know	missing	Low (0-80) c	Mid (80+150) c	High (GTc 150) c	Missing	Low (0-6) c	Mid (6+-13) c	High (GTc 13)
		%c	%c	%c	%c	%c	%c	%	%c	%c	%c	%c	%c	%c	%c	%c	%c	
Q3.31c ADDITIONAL FUNDS NEEDED TO CCOMPLISH GOALS																		
do not know	13	8	13	13	10	12	17	15	15	29	5	15	10	9	17	14	13	11
Low (0-300000)		29	17	13	22	27	43	25	48	28	37	38	32	28	28	34	35	28
Mid (300000+-750000) c	32	28	37	30	13	31	30	21	27	22	24	42	26	28	30	32	28	27
High (GTc 750000) c	27	27	40	63	37	31	19	34	15	19	16	22	30	33	23	25	24	33
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
N	4989	819	602	16	646	803	1290	130	683	423	19	1656	1452	1439	100 <sub>168</sub>	1797	1481	1543

2001 NSF GRANT AWARD SURVEY

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Table 5

SFC Directorate	Total									Q5.11c PREPARATION HOURS FOR SUBMITTING PROPOSAL				Q5.12c PEER REVIEW ARTICLES PUBLISHED: LAST 5 YEARS				
		BIOc	CSEc	EHFc	ENGc	GEOc	MPSc	/Dc	SBEc	do not know c	missing	Low (0-80) c	Mid (80+150) c	High (GTc150) c	Missing	Low (0-6) c	Mid (6+-13) c	High (GTc13)
		%c	%c	%c	%c	%c	%c	%c	%c	%	%c	%c	%c	%c	%c	%c	%c	
Q3.41c ADDITIONAL MOUNTS PERCENT CSF SHOULD FUND																		
.c	15	10	14	13	11	14	20	15	18	30	5	18	12	10	18	16	16	
do not know c	7	7	7	13		5	7	8	10	9	16	7	5	8	7	8	6	
Missing c	0	.	0	.	5	0	.	.	.	.	.	0	.	0	.	0	0	
Low (0-50)	33	36	34	38	52	29	28	19	28	22	32	30	38	35	30	31	30	
Mid (50+-90)	20	17	25	25	19	27	16	30	16	15	16	20	19	22	22	18	20	
High (GTc90) c	25	30	20	13	13	26	29	28	28	24	32	25	25	25	23	27	28	
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
N	4989	819	602	16	646	803	1290	130	683	423	19	1656	1452	1439	168	1797	1481	1543

2001 NSF GRANT AWARD SURVEY

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Table 6

		SFC Directorate									Q5.11c PREPARATION HOURS FOR SUBMITTING PROPOSAL				Q5.12c PEER REVIEW ARTICLES PUBLISHED: LAST 5 YEARS			
											do not know	missing	Low (0-80)	Mid (80-150)	High (GT 150)	Missing	Low (0-6)	Mid (6-13)
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
Q3.12c GREATEST MPACT RESEARCH CIVILITIES																		
.c		10	5	10	6	7	9	15	10	10	21	.	13	8	6	12	11	11
Missing		1	0	1	.	0	1	1	2	1	0	95	1	.	1	11	0	0
More funding		54	51	62	69	62	52	46	58	58	51	.	52	56	56	46	54	1 51
Longer duration		35	44	27	25	31	37	38	29	32	28	5	35	36	37	30	35	38
Total		100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
N		4989	819	602	16	646	803	1290	130	683	423	19	1656	1452	1439	168	1797	1481
																		1543

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Table 7

o tal	SFC Directoratec									Q5.11cPREPARATIONcHOURS FOR cSUBMITTINGc PROPOSALc				Q5.12cPEERcREVIEWcRTICLESc PUBLISHED:cLASTc5cYRSc				
		BIOc	CSEc	EH Rc	ENGc	GEOc	MPSc	/Dc	SBEc	do not c know c	missing	Low(0-80)c	Mid(80+150)c	High(GTc150)c	Missing	Low(0-6)c	Mid(6+-13)c	High(GTc13)c
		%c	%c	%c	%c	%c	%c	%c	%c	%c	%c	%c	%c	%c	%c	%c	%c	
Q4.21cFIRSTc MPORTANTc CTIONc FORcWARDc REAc																		
Missingc	1	0	0	6	1	1	1	2	1	100	0	0	0	17	0	0	0	
ncreasec amountc fundingcpercawardc	40	37	44	31	46	36	38	43	38	41	.	37	40	43	39	37	37	45
ncreasec lengthc of timecpercawardc	24	27	21	13	22	26	27	24	17	19	.	24	24	25	18	21	26	26
ncreasec totalcofc awardscpercyearc	36	36	34	50	31	36	34	31	45	38	.	39	36	31	26	42	37	28
otalc	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
N	4989	819	602	16	646	803	1290	130	683	423	19	1656	1452	1439	168	1797	1481	1543

2001 NSF GRANT AWARD SURVEY

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Table 8

otalc	SFC Directoratec									Q5.11cPREPARATIONcHOURScFORcSUBMITTINGc PROPOSALc				Q5.12cPEERcREVIEWcARTICLESc PUBLISHED:cLASTc5cYRSc				
		BIO	CSEc	EHRC	ENGc	GEOc	MPSc	/Dc	SBEc	do not c know c	missing	Low(0- 80)c	Mid(80+ 150)c	High(GTc 150)c	Missing	Low(0- 6)c	Mid(6+- 13)c	High(GTc 13)
		%c	%c	%c	%c	%c	%c	%c	%c	%c	%c	%c	%c	%c	%c	%c	%c	
Q4.22cSECONDc MPORTANTC CTIONC FORWARDc REAC																		
Missingc	1	1	1	6	1	2	1	5	1	100	1	1	1	19	1	1	0	
ncreasec amountc fundingcpercawardc	36	35	35	50	36	41	32	38	35	35	.	37	35	36	30	38	36	34
ncreasec lengthc timecpercawardc	37	39	36	25	37	35	39	35	38	40	.	38	38	37	29	37	37	39
ncreasec totalcofc awards per year	26	26	28	19	26	22	28	22	25	24	.	25	26	27	22	25	27	27
otalc	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
N	4989	819	602	16	646	803	1290	130	683	423	19	1656	1452	1439	168	1797	1481	1543

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Table 9

otalc	SFC Directoratec											Q5.11cPREPARATIONcHOURS FOR cSUBMITTINGc PROPOSALc				Q5.12cPEERcREVIEWcARTICLESc PUBLISHED:cLASTc5cYRSc			
		BIOc	CSE	EHRC	ENGc	GEOc	MPSc	/Dc	SBEc	do not c know c	missing	Low(0- 80)c	Mid(80+ 150)c	High(GTc 150)c	Missing	Low(0- 6)c	Mid(6+- 13)c	High(GTc 13)	
		%c	%c	%c	%c	%c	%c	%c	%c	%c	%c	%c	%c	%c	%c	%c	%c		
Q4.23cHIRDc MPORTANTC CTIONc FORWARDc REAc																			
Missingc	2	1	1	6	2	2	1	5	2	100	1	1	1	19	1	1	1		
ncrease sec amountc funding per awardc	23	27	19	13	16	21	28	15	25	23	.	26	24	20	13	25	27	20	
ncrease sec lengthcof time per award	38	34	42	56	40	37	33	37	44	39	.	38	37	38	34	42	36	34	
ncrease sec totalcofc awards per year	37	38	37	25	42	40	37	44	29	36	.	35	38	41	35	33	36	45	
otalc	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
N	4989	819	602	16	646	803	1290	130	683	423	19	1656	1452	1439	168	1797	1481	1543	

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Table 10

SFC Directorate	Total									Q5.11c PREPARATION HOURS FOR SUBMITTING PROPOSAL				Q5.12c PEER REVIEW ARTICLES PUBLISHED LAST 5 YEARS				
		BIOc	CSEc	EHRC	ENGc	GEOc	MPSc	/Dc	SBEc	do not know c	missing	Low (0-80) c	Mid (80+-150) c	High (GTc 150) c	Missing	Low (0-6) c	Mid (6+-13) c	High (GTc 13)
		%c	%c	%c	%c	%c	%c	%c	%c	%c	%c	%c	%c	%c	%c	%c	%c	
Q5.11c PREPARATION HOURS FOR SUBMITTING PROPOSAL																		
do not know c	8	8	10	6	9	5	8	6	13	8	.	.	.	.	13	8	8	
missing c	0	0	0	.	0	1	0	1	.	.	0	.	.	.	11	.	.	
Low (0-80)	33	16	36	19	30	37	39	37	39	.	.	33	.	.	28	35	35	
Mid (80+-150)	29	32	31	19	30	32	28	28	22	.	.	.	29	.	27	28	29	
High (GTc 150) c	29	44	23	56	31	25	24	28	25	.	.	.	29	21	29	28	30	
Total	100	100	100	100	100	100	100	100	100	8	0	33	29	29	100	100	100	
N	4989	819	602	16	646	803	1290	130	683	423	19	1656	1452	1439	168	1797	1481	
																	1543	

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Table 11

		SFc Directoratec									Q5.11cPREPARATIONcHOURScFORcSUBMITTINGc PROPOSALc				Q5.12cPEERcREVIEWcARTICLESc PUBLISHED:cLASTc5cYRSc					
											do not c knowc	missing	Low(0- 80)c	Mid(80+ 150)c	High(GTc 150)c	Missing	Low(0- 6)c	Mid(6+- 13)c	High(GTc 13)	
		otalc	BIOc	CSEc	EHR	ENGc	GEOc	MPSc	/Dc	SBEc	%c	%c	%c	%c	%c	%c	%c	%c	%c	
Q5.4cSFc FUNDINGc FORcHERc PROJECTS Fc RESEARCHc																				
Do not c knowc		1	0	1	.	0	0	1	1	0	2	.	0	1	1	1	0	0	1	
Missingc		0	0	0	.	0	1	0	1	.	0	100	.	.	.	12	.	.	.	
Yesc		44	36	53	44	54	63	33	75	31	1	.	46	46	43	46	39	44	50	
noc		55	64	45	56	45	36	66	24	68	35	62	.	54	53	56	41	60	56	48
otalc		100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
N		4989	819	602	16	646	803	1290	130	683	423	19	1656	1452	1439	168	1797	1481	1543	

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Table 12

otalc	SFC Directoratec									Q5.11cPREPARATIONcHOURS cFOR cSUBMITTING c PROPOSALc				Q5.12cPEERcREVIEWcRTICLES c PUBLISHED:cLASTc5cYRSc					
		BIOc	CSEc	EHRC	ENGc	GEOc	MPSc	/Dc	SBEc	do not c know c	missing	Low(0- 80)c	Mid(80+ 150)c	High(GTc 150)c	Missing	Low(0- 6)c	Mid(6+- 13)c	High(GTc 13)	
		%c	%c	%c	%c	%c	%c	%c	%c										
Q5.6 UALC FUNDINGcMOUNTc FROMcHERC SFC GRANTSc	.c	56	64	47	56	46	37	67		69	65	100	54	54	57	54	61	56	50
missingc		2	1	2	.	1	2	2	25	2	1	3	.	2	1	2	10	1	1
low(0-65000)		15	12	15	13	17	17	14	13	14	11	.	15	15	15	14	13	15	15
Mid(60000+-140000)		14	12	17	13	22	21	8	22	9	11	.	14	16	14	10	12	15	17
High(GTc140000) c		11	20	19	14	23	8	37	7	10	.	16	14	13	12	13	12	17	
otalc		14	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
N		4989	819	602	16	646	803	1290	130	683	423	19	1656	1452	1439	168	1797	1481	1543

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Table 13

		SFC Directorate									Q5.11c PREPARATION HOURS FOR SUBMITTING PROPOSAL				Q5.12c PEER REVIEW ARTICLES PUBLISHED: LAST 5 YEARS				
											do not know	missing	Low (0-80) c	Mid (80+150) c	High (GT 150) c	Missing	Low (0-6) c	Mid (6+-13) c	High (GT 13)
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	
Q5.8c DO YOU HAVE SFC FUNDING FOR RESEARCH																			
Do not know		0	0	0	.	0	0	0	1	1	.	0	0	0	2	0	0	0	
Missing		0	0	0	.	0	1	1	1	.	0	100	0	.	0	14	.	.	
Yes		72	73	72	100	85	77	63	75	69	69	.	70	74	74	56	69	70	80
no		27	26	28	.	14	21	36	25	30	30	.	29	25	25	28	31	29	20
Total			100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
N		4989	819	602	16	646	803	1290	130	683	423	19	1656	1452	1439	168	1797	1481	1543

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Table 14

Q5.10c FUNDING FROM SOURCES	.c	SFC Directorate								Q5.11c PREPARATION HOURS FOR SUBMITTING PROPOSAL				Q5.12c PEER REVIEW ARTICLES PUBLISHED: LAST 5 YEARS					
		totalc	BIOc	CSEc	EHRC	ENGc	GEOc	MPSc	/Dc	SBEc	do not knowc	missing	Low (0- 80)c	Mid (80+ 150)c	High (GTc 150)	Missing	Low (0- 6)c	Mid (6+- 13)c	High (GTc 13)
		%c	%c	%c	%c	%c	%c	%c	%c	%c	%c	%c	%c	%c	%c	%c	%c	%c	
UALC																			
FUNDING AMOUNT																			
FROM SFC																			
SOURCE																			
		28	27	28	.	15	23	37	25	31	31	100	30	26	26	44	31	30	20
missing	c	2	1	3	.	1	2	1	2	2	6	.	1	1	1	12	1	2	1
Low (0-50000)		26	26	21	19	17	28	28	25	36	23	.	26	26	28	13	29	29	22
Mid (50000+-150000)		21	22	22	19	28	25	17	22	16	19	.	19	24	21	13	19	22	23
High (GTc 150000) c		23	24	25	63	40	22	18	25	14	20	.	23	23	24	18	19	18	33
total	c	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
N		4989	819	602	16	646	803	1290	130	683	423	19	1656	1452	1439	168	1797	1481	1543

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Table 15

		SFc Directoratec									Q5.11cPREPARATIONcHOURScFORcSUBMITTINGc				Q5.12cPEERcREVIEWcARTICLESc PUBLISHED:cLASTc5cYRSc					
											PROPOSALc		do not c know c		missing		Low(0- 80)c	Mid(80+ 150)c	High(GTc 150)c	Missing
		otalc	BIOc	CSEc	EHFc	ENGc	GEOc	MPSc	/Dc	SBEc	%c	%c	%c	%c	%c	%c	%c	%c	%c	
Lc	FUNDINGc																			
	2001cgrantonlyc	19	19	16	.	8	12	29	11	23	24	100	20	17	17	32	22	18	13	
	2001cgrantc+cother nsfcgrant(Q5_4)c	9	8	12	.	7	11	8	15	8	7	.	10	9	9	12	9	11	7	
	2001cgrantc+cnon- nsfcgrant(Q5_8)c	37	46	31	56	38	26	39	15	45	40	.	34	37	40	22	39	38	36	
	2001cgrantc+cother SFc andcnoncSFc grantc			27	41	44	47	52	24	60	24	29	.	36	37	34	34	30	33	43
	otalc	35	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
N		4989	819	602	16	646	803	1290	130	683	423	19	1656	1452	1439	168	1797	1481	1543	

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Table 16

## 2001 NSF GRANT AWARD SURVEY

	otalc	SFc Directoratec								Q5.11cPREPARATIONcHOURS FOR cSUBMITTINGc PROPOSALc					Q5.12cPEERcREVIEWcRTICLESc PUBLISHED:cLASTc5cYRSc				
										do not c know c	missing	Low (0- 80)c	Mid (80+ 150)c	High (GTc 150)c	Missing	Low (0- 6)c	Mid (6+- 13)c	High (GTc 13)	
		%c	%c	%c	%c	%c	%c	%c	%c	%	%c	%c	%c	%c	%c	%c	%c		
<b>YPEc Fc STITUTIONc</b>																			
CADC	4	7	2	.	1	4	2	11	7	3	5	4	4	4	5	6	4	2	
PHDC	5	8	3	31	3	4	6	6	6	5	5	5	5	5	3	9	4	2	
HPHDC	18	23	17	44	22	17	15	16	17	20	5	18	17	21	17	19	17		
20c	25	15	28	6	28	29	27	27	21	26	53	27	26	21	30	23	24	27	
21 -50	26	22	26	6	26	27	27	25	27	27	16	26	25	25	27	23	26	29	
51 -100	22	26	24	13	20	17	23	15	21	19	16	20	24	23	18	20	23	23	
otalc	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
N	4989	819	602	16	646	803	1290	130	683	423	19	1656	1452	1439	168	1797	1481	1543	

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Table 17

## **APPENDIX G – D**

### **MEASURE OF CENTRAL TENDENCY: SAMPLE INSTITUTIONS**

### MEASURES OF CENTRAL TENDENCY: SAMPLE INSTITUTIONS

QUESTION	COUNT	MEAN	MEDIAN	MODE	STANDARD DEVIATION	MAXIMUM	MINIMUM
Number of 2001 NSF grant awards	95	12	3	1	53	125	1
Number of 2001 NSF grant declines	95	32	7	1	118	258	1
Q.1.3 Total number of the following assigned to grant proposals							
1 Individuals	89	6	4	3	14	43	1
2 Administrative Offices	91	2	1	1	3	9	1
Q.1.4b Average number of hours spent on typical FY 2001 NSF grant proposal							
1 First specified administrative office	94	6	4	1	13	25	1
2 Second specified administrative office	39	4	2	1	14	30	0
Q.2.3 Total number of the following assigned to grant proposal revisions							
1 Individuals	82	5	3	3	14	43	1
2 Administrative Offices	81	2	1	1	4	11	1
Q.2.4b Average number of hours spent on typical FY 2001 NSF grant proposal revision							
1 First specified administrative office	89	3	2	1	6	15	0
2 Second specified administrative office	23	2	1	1	7	20	0
Q.2.5 Hours spent communicating with NSF on revisions to the original proposal	87	2	1	1	7	30	0
Q.3.2 Total number of the following assigned to administer grants							
1 Individuals	90	8	4	3	28	99	1
2 Administrative Offices	90	2	2	2	9	50	1
Q.3.3b Average number of hours spent administering typical FY 2001 NSF grant							
1 First specified administrative office	89	21	8	5	148	500	1
2 Second specified administrative office	58	10	5	1	24	52	1
Q.3.4 Hours spent to complete and submit NSF required reports for typical FY 2001 grant	85	6	3	2	22	60	0
Q.5.1 NSF grants percentage share of all FY 2001 grants	93	16	10	10	44	100	1
Q.5.2 NSF grants percentage share of total dollar amount of all FY 2001 grant awards	94	18	12	1	45	100	1

\* All values rounded to nearest whole number

## **APPENDIX G – E**

### **MEASURE OF CENTRAL TENDENCY: NONSAMPLE INSTITUTIONS**

### MEASURES OF CENTRAL TENDENCY: NONSAMPLE INSTITUTIONS

QUESTION	COUNT	MEAN	MEDIAN	MODE	STANDARD DEVIATION	MAXIMUM	MINIMUM
Number of 2001 NSF grant awards	264	10	2	1	17	102	1
Number of 2001 NSF grant declines	264	27	9	1	41	266	1
Q.1.3 Total number of the following assigned to grant proposals							
1 Individuals	250	5	3	2	6	62	0
2 Administrative Offices	247	2	1	1	2	17	0
Q.1.4b Average number of hours spent on typical FY 2001 NSF grant proposal							
1 First specified administrative office	253	8	4	2	17	150	0
2 Second specified administrative office	128	4	2	1	8	50	0
Q.2.3 Total number of the following assigned to grant proposal revisions							
1 Individuals	224	4	3	2	5	34	0
2 Administrative Offices	219	2	1	1	2	17	0
Q.2.4b Average number of hours spent on typical FY 2001 NSF grant proposal revision							
1 First specified administrative office	245	3	1	1	5	40	0
2 Second specified administrative office	98	2	1	1	3	20	0
Q.2.5 Hours spent communicating with NSF on revisions to the original proposal	248	2	1	1	5	60	0
Q.3.2 Total number of the following assigned to administer grants							
1 Individuals	247	6	3	2	8	78	0
2 Administrative Offices	248	2	2	2	2	23	0
Q.3.3b Average number of hours spent administering typical FY 2001 NSF grant							
1 First specified administrative office	251	18	8	2	33	250	1
2 Second specified administrative office	166	16	5	1	29	240	0
Q.3.4 Hours spent to complete and submit NSF required reports for typical FY 2001 grant	252	8	4	2	15	175	0
Q.5.1 NSF grants percentage share of all FY 2001 grants	262	16	10	10	18	100	1
Q.5.2 NSF grants percentage share of total dollar amount of all FY 2001 grant awards	263	18	11	10	20	100	1

\* All values rounded to nearest whole number