



Calhoun: The NPS Institutional Archive

DSpace Repository

Faculty and Researchers

Faculty and Researchers' Publications

2008-05

In-Class Exercise: Conducting Survey Analyses in JMP®

Fricker, Ronald D. Jr

http://hdl.handle.net/10945/66306

This publication is a work of the U.S. Government as defined in Title 17, United States Code, Section 101. Copyright protection is not available for this work in the United States.

Downloaded from NPS Archive: Calhoun



Calhoun is the Naval Postgraduate School's public access digital repository for research materials and institutional publications created by the NPS community. Calhoun is named for Professor of Mathematics Guy K. Calhoun, NPS's first appointed -- and published -- scholarly author.

> Dudley Knox Library / Naval Postgraduate School 411 Dyer Road / 1 University Circle Monterey, California USA 93943

http://www.nps.edu/library



SCHOOL

IN-CLASS EXERCISE: CONDUCTING SURVEY ANALYSES IN JMP®

Survey Research Methods Short Course

Marine Corps Operational Test and Evaluation Activity Quantico, Virginia

May 8-14, 2008

In-class Exercise: Conducting Survey Analyses in JMP

Goal: To develop students' ability to conduct survey analyses using JMP® software.

Lab type: Instructor demonstrates software followed by hands-on exercises for students.

Time allotted: 90 minutes.

Data: SurveyData.jmp (see appendix for survey instrument).

DEMONSTRATION

- 1. One-way goodness-of-fit (Analyze > Distribution)
 - (a) One nominal variable
 - (b) triangle > Test Probabilities
 - (c) Fill in probabilities to test
- 2. Contingency tables (Analyze > Fit Y by X)
 - (a) Two nominal variables
 - (b) Mosaic plot
 - (c) Tables
 - i) Turn on/off row, column, total percentages
 - ii) Show expected counts and/or cell chi-squared values
 - (d) Pearson and likelihood ratio tests of independence
- 3. Simple linear regression (Analyze > Fit Y by X)
 - (a) Continuous Y and X
 - (b) triangle > Fit line
 - i) Note other options: Fit mean, Fit polynomial
 - (c) Output to data table
 - i) Residuals (triangle next to Linear Fit > Save Residuals)
 - ii) Predicted values (triangle next to Linear Fit > Save Predicteds)
 - (d) Residual plot: triangle next to Linear Fit > Plot Residuals
 - (e) Delete fitted line: triangle next to Linear Fit > Remove Fit
- 4. Multiple regression (Analyze > Fit Model)
 - (a) Continuous *Y* and one or more continuous or discrete *X*s

- (b) Enter Xs using "Add" button
 - i) Can delete using "Remove" button
 - ii) Iterative model fitting easy using same Fit Model dialog box
- (c) Change "Emphasis" to Minimal report to hide extra output
- (d) Note that all observations with one or more missing values in the *Y* or any of the *X*s are ignored
- (e) Tabular output:
 - i) Summary of Fit table
 - ii) Parameter Estimates table
 - iii) Effects Tests table
 - iv) Residual plot
- (f) Output to data table
 - i) Residuals (triangle > Save Columns > Residuals)
 - ii) Predicted values (triangle > Save Columns > Predicted Values)
- 5. Logistic regression (Analyze > Fit Model)
 - (a) Same as multiple regression except *Y* must be a nominal variable with only two levels
 - (b) Tabular output:
 - i) Whole Model Test table
 - ii) Parameter Estimates table
 - (c) Estimated probabilities
 - i) triangle > Save Probability Formula

EXERCISES

- 1. Goodness-of-fit
 - (a) Test whether it is reasonable to assume the probabilities of the responses to question 7 are homogeneous.
 - i) Remember to change the variable type to nominal.
 - ii) What do you conclude: reject the null hypothesis and conclude that they are not homogeneous, or fail to reject the null and conclude they are homogeneous?
 - iii) What does that mean in terms of the survey question?
 - (b) Test whether it is reasonable to assume the answers to question 1 came from the following distribution. What do you conclude?

 $\begin{aligned} & \Pr(Q1{=}1) = 0.01 \\ & \Pr(Q1{=}2) = 0.09 \\ & \Pr(Q1{=}3) = 0.15 \\ & \Pr(Q1{=}4) = 0.60 \\ & \Pr(Q1{=}5) = 0.15 \end{aligned}$

- 2. Contingency table
 - (a) Create a contingency table of respondent's gender (*Sex*) vs. school (*CurricNumber*).
 - (b) Which school has the largest fraction of female students? Did you determine that from the mosaic plot, or the contingency table, or both?
 - (c) Reduce the contingency table down to just a table of counts. That is, remove the total percent, row percent, and column percents from the table.
 - (d) Based on the hypothesis test results at the bottom of the output, is gender independent of school? That is, can you assume that the distribution of men and women are the same in the schools?
 - (e) Do you need to be concerned about the warning at the bottom of the output?
- 3. Simple linear regression
 - (a) After fielding the survey, based on some written comments, it was hypothesized that the respondents didn't distinguish well between questions 2 and 3. Examine this question as follows:

- i) Create two new variables *Sum2 and Sum3* which are the sums of the answers to questions 2a through 2i and 3a through 3i respectively.
- ii) Regress Sum3 on Sum2. What is the:
 - (1) R-square value?
 - (2) What is the slope for *Sum2*?
- iii) Save the residuals from the model in a new column in the data table.
 - (1) Create a histogram of the residuals.
 - (2) Highlight all the residuals that are between -10 and +10 and exclude the rows corresponding to those residuals.
- iv) Are there any obvious differences in the demographics of those with large residuals and the distribution of demographics for all the respondents?
- v) What do you conclude from this analysis?
- 4. Multiple regression
 - (a) Regress Sum2 on school (CurricNumber), gender (Sex), and Military Branch.
 - i) Are any of the variables significant? If so, which one(s)?
 - ii) Drop the insignificant variables and re-run the model.
 - iii) Which Service is most satisfied overall with NPS in-processing? Which "Service" is least satisfied?
 - iv) Why doesn't USN show up in the Parameter Effects table?

APPENDIX: SURVEY INSTRUMENT

NPS Student Survey
Introduction
You have been selected to participate in a survey of new Naval Postgraduate School (NPS) students. The purpose of this survey is to assess various aspects of academic life at NPS, including your quality of life, the physical environment and support services, and policies and requirements set forth by NPS. The results of the survey will be used by the NPS Dean of Students, the Director of Institutional Research, and other members of the NPS administration to improve NPS. This is your opportunity to provide NPS with frank feedback on what works well and what does not.
No tangible compensation will be given for participation in the survey. If you agree to participate, you are free to withdraw at any time without prejudice. Upon completion of the research, a copy of the final report will be available from Dr. Fran Horvath, Director of Institutional Research. Your participation in this survey is voluntary, although your input is extremely valuable for the improvement of NPS.
Please note that all survey records and data will be kept strictly confidential. Your participation in the survey and your responses to the survey will not be disclosed outside of the research team. Survey results will only be reported in the aggregate so that individual responses cannot be determined. Upon completion of the survey, all records identifying your participation in the survey will be destroyed.
If you have any questions or comments regarding this survey, please contact Professor Ron Fricker, 831-656-3048 (rdfricker@nps.edu) or LT Brent Olde (NPS IRB chair), 831-656-3807 (baolde@nps.edu).
Quality of Life
We begin with some questions about your experience in-processing (i.e., enrolling) at NPS. Please consider how these services provided by NPS contribute to both your learning experience and your activities outside of academics.
1. In general, how do you rate your satisfaction or dissatisfaction with the IN- PROCESSING procedures at NPS?
Neutral
Very Dissatisfied

2. How do you ra	ate the IN-PR	OCESSING	provided b	oy each of t	he following	support
services (briefin	gs, orientatio	n, material	s, service,	etc.):		
	Very Dissatisfied	Dissatisfied	Neutral	Satisfied	Very Satisfied	N/A*
Registrar	0	0	0	0	0	0
Program Office	0	0	0	0	0	0
Student Services	0	0	0	0	0	0
Sponsor Program	0	0	0	0	0	Ō
Information Technology (ITACS)	Õ	Õ	Õ	Õ	Õ	Õ
Chaplain Services	0	0	0	0	0	0
Medical Services	0	0	0	0	0	0
Morale, Welfare and Recreation (MWR)	0	0	0	0	0	0
Military Housing	0	0	0	0	0	0
OPTIONAL: We appreciate	any specific feedba	ck on the above i	tems.	_		
					*	
					v	
*Please respond *N/A* for you do not know.	any items which are	not applicable or				

Quality of Life

In the previous question we asked you about the in-processing support you received. Now we would like to know about the service you have received AFTER in-processing.

3. Following in-processing, how do you rate the SERVICE provided by the following organizations at NPS:

	Very Dissatisfied	Dissatisfied	Neutral	Satisfied	Very Satisfied	N/A*
Registrar	0	0	0	0	0	0
Program Office	0	0	0	0	0	0
Student Services	0	0	0	0	0	0
Sponsor Program	0	0	0	0	0	0
Information Technology (ITACS)	0	0	0	0	0	0
Chaplain Services	0	0	0	0	0	0
Medical Services	0	0	0	0	0	0
Morale, Welfare and Recreation (MWR)	0	0	0	0	0	0
Military Housing	0	0	0	0	0	0
OPTIONAL: We appreciate	any specific feedba	ck on the above it	tems.			
					*	
					v	
*Please respond *N/A* for	any items which are	not applicable or	you do not know	κ.		

NPS Student Sur	vey					
Quality of Life - Wo	ork Load					
4. To what level do	o you agre	e or disagre	e with the f	following s	tatements:	
	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree	N/A*
I am able to pursue interests outside of my studies.	0	0	0	0	0	0
I have sufficient time to spend with my family and/or friends.	0	0	0	0	0	0
My academic workload is high.	0	0	0	0	0	0
OPTIONAL: We appreciate an	y specific feedb	ack on the above	items.			
					_	
					*	
*Please respond *N/A* for any	y items which a	re not applicable o	r you do not know	r.,		
Physical Resources	5					
In this section we would like	your opinion	s on physical re	sources that s	upport your a	cademic studies. V	Ve will ask
you about the NPS library, la	aboratories, c	lassrooms, and	other facilities.			
5. Please rate your	satisfacti	ion or dissat	isfaction wi	ith the can	npus workspa	ce(s)
available to you (e	.g., cubicl	e, office, lib	rary study r	oom, etc.)		
Very Satisfied						
Neutral						
Dissatisfied						
Very Dissatisfied						
OPTIONAL: We appreciate an	y specific feedb	back on the above	items.			
					.e.	
					*	
*Please respond "N/A" if this	item is not app	licable or you do n	ot know.			
Physical Resources	s - Librar	·v				
Thysical Resource.		,			_	

6. Please rate your	level of s	atisfaction o	r dissatisfa	ction with	the following	LIBRAR
resources:	10101010		i alssaasia		ane renowing	LIDRAR
·	ery Dissatisfied	Dissatisfied	Neutral	Satisfied	Very Satisfied	N/A*
Books	0	0	0	0	0	0
Databases/Searches engines	Ō	Ō	Õ	Ō	Õ	Õ
Journals	0	0	0	0	0	0
Facilities (computers, study rooms, carrels)	0	0	0	0	0	0
Reference assistance and instruction	0	0	0	0	0	0
Restricted resources and services	0	0	0	0	0	0
Services (circulation, interlibrary loan, course reserve, printing, etc)	0	0	0	0	0	0
OPTIONAL: We appreciate an	y specific feedb	ack on the above it	tems.			
					A	
Please respond *N/A* for an pport Services - 7. Do you persona computer laborato	y items which an Laborate Ily use a la ory, resear	re not applicable or D ry Iboratory for Ich laborator	you do not know any reaso ry, etc.)?	n in your cu		J.,
*Please respond *N/A* for an pport Services - 7. Do you persona computer laborato	y items which an Laborate Ily use a la ory, resear	re not applicable or Dry Iboratory for Ich laborator	you do not know any reaso ry, etc.)?	n in your cu	, urriculum (e.ç	J.,
*Please respond *N/A* for an pport Services - 7. Do you personal computer laborato Yes No ysical Resource	y items which an Laborato Ily use a la ory, resear s - Labor	re not applicable or Dry Iboratory for Inch laborator atory Facil	you do not know any reaso ry, etc.)? ities	n in your cu	⊻ urriculum (e.ç	J.,
*Please respond *N/A* for an pport Services - 7. Do you persona computer laborato Yes No ysical Resource	y items which an Laborate Ily use a la ory, resear s - Labor	re not applicable or D ry Iboratory for Ich laborator atory Facili	you do not know r any reaso ry, etc.)? ities	n in your ci	,urriculum (e.g	J.,
*Please respond *N/A* for an pport Services - 7. Do you persona computer laborato Yes No ysical Resource	y items which an Laborato Ily use a la ory, resear s - Labor	re not applicable or ory aboratory for rch laborator atory Facil	you do not know r any reaso ry, etc.)? ities	n in your cu	, urriculum (e.ç	J.,
*Please respond *N/A* for an pport Services - 7. Do you persona computer laborato Yes No ysical Resource:	y items which an Laborato Ily use a la ory, resear s - Labor	re not applicable or Dry Iboratory for rch laborator atory Facili	you do not know any reaso ry, etc.)? ities	n in your cu	, urriculum (e.g	J.,
Please respond 'N/A" for an pport Services - 7. Do you persona computer laborato Yes No ysical Resource	y Items which an Laborato Ily use a la ory, resear s - Labor	re not applicable or Dry Iboratory for Inch laborator atory Facil	you do not know any reaso ry, etc.)?	n in your cu	,urriculum (e.g	J.,
Please respond 'N/A" for an pport Services - 7. Do you persona computer laborato Yes No ysical Resource	y items which an Laborate Ily use a la ory, resear s - Labor	re not applicable or D ry Iboratory for rch laborator atory Facili	you do not know r any reaso ry, etc.)?	n in your ci	,urriculum (e.g	J.,
*Please respond *N/A* for an pport Services - 7. Do you persona computer laborato Yes No ysical Resource:	y items which an Laborato Ily use a la ory, resear s - Labor	re not applicable or ory aboratory for rch laborator atory Facil	you do not know r any reaso ry, etc.)?	n in your cu	,urriculum (e.ç	J.,
*Please respond *N/A* for an pport Services - 7. Do you personal computer laborato Yes No ysical Resource	y items which an Laborato Ily use a la ory, resear s - Labor	re not applicable or ory aboratory for rch laborator atory Facili	you do not know any reaso ry, etc.)?	n in your cu	urriculum (e.ç	J.,
*Please respond *N/A* for an pport Services - 7. Do you persona computer laborato Yes No ysical Resource	y Items which an Laborate Ily use a la ory, resear s - Labor	re not applicable or ory aboratory for och laborator atory Facili	you do not know any reaso ry, etc.)?	n in your cu	,urriculum (e.g	J.,
*Please respond *N/A* for an pport Services - 7. Do you persona computer laborato Yes No ysical Resource	y items which an Laborate Ily use a la ory, resear s - Labor	re not applicable or Dry Iboratory for rch laborator atory Facili	you do not know r any reaso ry, etc.)?	n in your cu	Jurriculum (e.g	J.,
*Please respond *N/A* for an pport Services - 7. Do you persona computer laborato Yes No ysical Resource	y items which an Laborato Ily use a la ory, resear s - Labor	re not applicable or ory aboratory for rch laborator atory Facil	you do not know r any reaso ry, etc.)? ities	n in your cu	urriculum (e.g	J-,
*Please respond *N/A* for an pport Services - 7. Do you persona computer laborato Yes No ysical Resource	y items which an Laborato Ily use a la ory, resear s - Labor	re not applicable or ory aboratory for ch laborator atory Facili	r you do not know r any reaso ry, etc.)? ities	n in your cu	urriculum (e.ç	J.,
*Please respond *N/A* for an pport Services - 7. Do you personal computer laborato Yes No ysical Resource	y items which an Laborato Ily use a la ory, resear s - Labor	re not applicable or ory aboratory for ch laborator atory Facili	you do not know r any reaso ry, etc.)? ities	n in your cu	urriculum (e.ç	J.,
*Please respond *N/A* for an pport Services - 7. Do you personal computer laborato Yes No ysical Resource	y items which an Laborato Ily use a la ory, resear s - Labor	re not applicable or Dry Iboratory for rch laborator atory Facili	you do not know r any reaso ry, etc.)?	n in your cu	urriculum (e.g	J.,

		6				
8. The LABORATO	Stroogly	es for my pro	ogram are	•		
	Disagree	Disagree	Neutral	Agree	Strongly Agree	N/A*
conveniently located.	0	0	0	0	0	0
In good working condition.	0	0	0	0	0	0
equipped with current technologies.	0	0	0	0	0	0
appropriate for military research.	0	0	0	0	0	0
well maintained.	0	0	0	0	0	0
equipped with sufficient resources.	0	0	0	0	0	0
responsive to course and research needs.	0	0	0	0	0	0
OPTIONAL: We appreciate a	ny specific feedb	ack on the above	items.			
					_	
					v.	
*Please respond "N/A" for an	iy items which a	re not applicable o	r you do not know			
nysical Resource	s - Classi	rooms				
9. The CLASSROO	MS for my	program ar	e			
9. The CLASSROO	MS for my Strongly Disagree	program ar	e	Agree	Strongly Agree	N/A*
9. The CLASSROO	MS for my Strongly Disagree	Disagree	re Neutral	Agree	Strongly Agree	N/A*
9. The CLASSROO	MS for my Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree	N/A*
9. The CLASSROO	MS for my Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree	N/A*
9. The CLASSROO	MS for my Strongly Disagree	Disagree	re Neutral	Agree	Strongly Agree	N/A*
9. The CLASSROO conveniently located. in good working condition. equipped with current technologies. clean. comfortable.	MS for my Strongly Disagree O O O O O O O O O O O O O O O O O O	program ar Disagree	re	Agree	Strongly Agree	N/A*
9. The CLASSROO conveniently located. in good working condition. equipped with current technologies. clean. comfortable. large enough.	MS for my Strongly Disagree O O O O O O O O O O O O O	program ar Disagree	re	Agree	Strongly Agree	N/A*
9. The CLASSROO conveniently located. in good working condition. equipped with current technologies. clean. comfortable. large enough. OPTIONAL: We appreciate an	MS for my Strongly Disagree	Disagree	re Neutral	Agree	Strongly Agree	N/A*
9. The CLASSROO	MS for my Strongly Disagree O O O O O O O O O O O O O	program ar Disagree	re Neutral	Agree	Strongly Agree	N/A*
9. The CLASSROO	MS for my Strongly Disagree O O O O Ny specific feedb	program ar	re	Agree	Strongly Agree	N/A*
9. The CLASSROO	MS for my Strongly Disagree O O O O N Specific feedb	program ar Disagree	r you de nat know	Agree	Strongly Agree	N/A*
9. The CLASSROO	MS for my Strongly Disagree O O O O O O O O O O O O O	program ar Disagree	r you do not know	Agree	Strongly Agree	N/A*
9. The CLASSROO	MS for my Strongly Disagree O O O O Ny specific feedb Ny Items which at Wireless	program ar Disagree	re Neutral	Agree	Strongly Agree	N/A*
9. The CLASSROO conveniently located, in good working condition equipped with current technologies clean comfortable large enough. OPTIONAL: We appreciate an *Please respond *N/A* for an Ipport Services - 10. While on the N	MS for my Strongly Disagree O O O O O Ny specific feedb Ny items which ar Wireless IPS campu	program ar Disagree	r you do not know	Agree	Strongly Agree	N/A*
9. The CLASSROO conveniently located, in good working condition equipped with current technologies clean comfortable large enough. OPTIONAL: We appreciate an *Please respond *N/A* for an pport Services 10. While on the N Ves No	MS for my Strongly Disagree O O O O O O O O O O O O O	program ar Disagree	r you do not know	Agree	Strongly Agree	N/A*
9. The CLASSROO conveniently located in good working condition equipped with current technologies clean comfortable large enough. OPTIONAL: We appreciate an *Please respond *N/A* for an pport Services 10. While on the N Ves No	MS for my Strongly Disagree O O O O Ny specific feedb Ny items which and O O O O O O O O O O O O O	program ar Disagree	r you do not know	Agree	Strongly Agree	N/A*

NPS Student Survey
11. While on the NPS campus, is the wireless access sufficient everywhere you need
it?
Q Yes
○ No
Support Services - Wireless Locations Needed
12. If you could add or improve wireless capability to one location on campus where
it is currently insufficient, where would it be?
Building
Please Select:
Other (please specify)
<u>×</u>
Support Services - Warfighting Community
During the course of their time here at NPS, many students feel it is important to maintain links to their warfighting or professional community either through E-mail connectivity or research. These communities are typically your sponsoring agency, research organizations you are collaborating with, end-users of your NPS research/coursework, etc.
12. Here impertant de vers fact it is te meintein contact with your werficktion or
15. How important do you reel it is to maintain contact with your warnighting or
Very Important
Neutral
O Unimportant
Very Unimportant
○ N/A*
14. Please rate your satisfaction or dissatisfaction with NPS' resources for
maintaining contact with your warfighting or professional community?
Very Satisfied
Q Satisfied
Q Neutral
Dissatisfied
N/A*
OPTIONAL: We appreciate any specific feedback you have on the above items.
*Please respond *N/A* for any items which are not applicable or you do not know.
Teaching and Learning
You are almost finished. Just a few questions below about academics at NPS.

NPS Student Survey

15. As you think about the INSTRUCTORS you have had thus far at NPS, please indicate your level of agreement or disagreement with the following statements:

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree	N/A*
Ny instructors expectations are consistent with what a graduate education should entail.	0	0	0	0	0	0
My instructors actively engage me in the learning process.	0	0	0	0	0	0
Ny instructors provide useful feedback about my performance.	0	0	0	0	0	0
My instructors provide real world examples during class.	0	0	0	0	0	0
OPTIONAL: We appreciate an	y specific feed	ack on the above	items.			
					A	
					*	

*Please respond *N/A* for any items which are not applicable or you do not know.

Teaching and Learning - Academic Program

16. Now, thinking about your academic program in general, please indicate your level of agreement or disagreement with the following statements:

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree	N/A*
My academic program is challenging.	0	0	0	0	0	0
Ny academic program actively engages me in the learning process.	0	0	0	0	0	0
The NPS faculty in my academic program encourage me to participate in defense- related research.	0	0	0	0	0	0
My academic program challenges me to meet high expectations.	0	0	0	0	0	0
The expectations of the faculty in my academic program are consistent with the program's graduation requirements.	0	0	0	0	0	0
OPTIONAL: We appreciate an	y specific feedb	ack on the above i	items.			
					-	
					×	

S Student Sur	vey					
*Please respond *N/A* for an	y items which a	re not applicable o	r you do not know			
licies and Requi	rements					
17. Please indicate	e the degr	ee to which	you agree o	or disagree	with the follo	wing
statements below	about NP	S POLICIES	and acaden	nic REQUI	REMENTS.	
	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree	N/A*
I was made aware of NPS' policy on student conduct and behavior (Student Information Handbook).	0	0	0	0	0	0
I was made aware of NPS' grievance procedures for students.	0	0	0	0	0	0
The academic advising I receive at NPS provides useful information.	0	0	0	0	0	0
Ny academic advisor provides relevant information about academic requirements.	0	0	0	0	0	0
I am clear about the graduation requirements for my program.	0	0	0	0	0	0
OPTIONAL: We appreciate an	y specific feedb	ack on the above i	items.			
					A	
					A	
*Please remond *N/A* for an	v items which a	re not applicable o	r vou do not know		A V	
*Please respond *N/A* for an	y items which a	re not applicable o	r you do not know		A 	
*Please respond *N/A* for an d of Survey	y items which a	re not applicable o	r you do not know		4 V	
*Please respond *N/A* for an d of Survey 18. Is there anythi	y items which a ing else yo	re not applicable of ou would like	r you do not know e to tell us a	bout your	▲ ▼ experiences a	t NPS?
*Please respond *N/A* for an d of Survey 18. Is there anythi	y items which a	re not applicable of Du would like	r you do not know e to tell us a	Ibout your	experiences a	t NPS?
*Please respond *N/A" for an d of Survey 18. Is there anythi	y Items which a	re not applicable of Du would like	r you do not know e to tell us a	Ibout your	experiences a	t NPS?
*Please respond *N/A* for an d of Survey 18. Is there anythi	y items which a	re not applicable of Du would like	r you do not know e to tell us a	Ibout your	experiences a	t NPS?
*Please respond *N/A* for an id of Survey 18. Is there anythi	y items which a	re not applicable of Ou would like	r you do not know e to tell us a	ibout your	experiences a	t NPS?
*Please respond *N/A* for an id of Survey 18. Is there anythi	y items which a	re not applicable o	r you do not know e to tell us a	ibout your	experiences a	t NPS?
*Please respond 'N/A" for an id of Survey 18. Is there anythi	y items which a	re not applicable o	r you do not know e to tell us a	ibout your	experiences a	t NPS?
*Please respond *N/A* for an id of Survey 18. Is there anythi	y items which a	re not applicable of	r you do not know e to tell us a	ibout your	experiences a	t NPS?
*Please respond *N/A* for an id of Survey 18. Is there anythi	y items which a	re not applicable of	r you do not know	Ibout your	experiences a	t NPS?
*Please respond *N/A" for an od of Survey 18. Is there anythi	y items which a	re not applicable of	r you do not know	Ibout your	experiences a	t NPS?
*Please respond *N/A* for an od of Survey 18. Is there anythi ank you Thank you for taking the time help NPS continue to improve support services for both curr	y items which a ing else yo e to complete th a the academic of rent and future s	ne not applicable of Du would like nis survey. Your inp environment and si students.	r you do not know e to tell us a ut will tudent	bout your	experiences a	t NPS?
*Please respond *N/A* for an id of Survey 18. Is there anythi ank you Thank you for taking the time help NPS continue to improve support services for both curr If you have any questions or contact Professor Ron Fricker	y items which an ing else you e to complete the the academic of rent and future so comments rega , 831-656-3048	ne not applicable of ou would like his survey. Your inp environment and si students. arding this survey, (rdfricker@nps.edu	r you do not know e to tell us a sut will tudent please u).	ibout your	experiences a	t NPS?