

Interpreting the Mean Comparisons Report

Sample

The *Mean Comparisons* report is based on information from all randomly selected students for both your institution and your comparison institutions. Targeted oversamples and other non-randomly selected students are not included in this report.

Variables

The items from the NSSE survey appear in the left column in the same order and wording as they appear on the instrument. The name of each variable appears in the second column for easy reference to your data file and the summary statistics at the end of this section. Response options are also provided to help you interpret the statistics.

Benchmark

Items that make up the five “Benchmarks of Effective Educational Practice” are indicated by the following:

LAC=Level of Academic Challenge

ACL=Active and Collaborative Learning

SFI=Student-Faculty Interaction

EEE=Enriching Educational Experiences

SCE=Supportive Campus Environment

Mean

The mean is the *weighted* arithmetic average of student responses on a particular item. Means are provided for your institution and all comparison groups. For more information about weighting go to:

www.nsse.iub.edu/2009_Institutional_Report/NSSE_2009_Weighting.cfm.

Class

Results are reported separately for first-year students (FY) and seniors (SR). Institution-reported class ranks are used.

Statistical Significance

Items with mean differences that are larger than would be expected by chance alone are noted with one, two, or three asterisks, referring to three significance levels ($p < .05$, $p < .01$, and $p < .001$). The smaller the significance level, the smaller the likelihood that the difference is due to chance. *Statistical significance does not guarantee the result is substantive or important.* Large sample sizes (like those produced by NSSE) tend to generate more statistically significant results even though the magnitude of mean differences may be inconsequential. It is recommended to consult effect sizes (see below) to judge the practical meaning of the results.

Effect Size

Effect size indicates the “practical significance” of the mean difference. It is calculated by dividing the mean difference by the pooled standard deviation. In practice, an effect size of .2 is often considered small, .5 moderate, and .8 large. A positive sign indicates that your institution's mean was greater, thus showing an affirmative result for your institution. A negative sign indicates the institution lags behind the comparison group, suggesting that the student behavior or



**NSSE 2009 Mean Comparisons
NSSEville State University**

NSSEville State compared with:

Variable	Bench- mark	Class	NSSEville State			Mid East Public			Carnegie Class			NSSE 2009		
			Mean ^a	Sig ^b	Effect Size ^c	Mean ^a	Sig ^b	Effect Size ^c	Mean ^a	Sig ^b	Effect Size ^c	Mean ^a	Sig ^b	Effect Size ^c
1. Academic and Intellectual Experiences														
a. Asked questions in class or contributed to class discussions	CLQUEST	ACL	2.94	2.61 ***	.40	2.64 ***	.35	2.78 ***	.18	2.91 ***	.39	3.07 ***	.21	
		SR	3.25	2.90 ***	.39	2.91 ***	.39	3.07 ***	.21	2.91 ***	.39	3.07 ***	.21	
b. Made a class presentation	CLPRESEN	ACL	2.22	2.11 **	.14	2.14 *	.10	2.27	-.07	2.65 ***	.54	2.80 ***	.36	
		SR	3.11	2.65 ***	.54	2.65 ***	.54	2.80 ***	.36	2.65 ***	.54	2.80 ***	.36	
c. Prepared two or more drafts of a paper or assignment before turning it in	REWROPAP	FY	2.73	2.50 ***	.23	2.56 ***	.18	2.65 *	.08	2.34	.03	2.47 **	-.11	
		SR	2.36	2.32	.04	2.34	.03	2.47 **	-.11	2.34	.03	2.47 **	-.11	
d. Worked on a paper or project that required integrating ideas or information from various sources	INTEGRAT	FY	3.27	2.93 ***	.42	2.98 ***	.36	3.06 ***	.26	3.23 ***	.23	3.30 ***	.14	
		SR	3.40	3.22 ***	.42	3.23 ***	.23	3.30 ***	.14	3.23 ***	.23	3.30 ***	.14	
e. Included diverse perspectives (different races, religions, genders, political beliefs, etc.) in class discussions or writing assignments	DIVCLASS	FY	2.88	2.67 ***	.23	2.72 ***	.18	2.78 *	.11	2.72 ***	.18	2.81 *	.09	
		SR	2.89	2.72 ***	.19	2.72 ***	.18	2.81 *	.09	2.72 ***	.18	2.81 *	.09	
f. Come to class without completing readings or assignments	CLUNPREP	FY	1.96	2.07 **	-.14	2.05 **	-.12	2.01	-.07	2.21 ***	-.18	2.10	-.04	
		SR	2.07	2.22 ***	-.18	2.21 ***	-.18	2.10	-.04	2.21 ***	-.18	2.10	-.04	

institutional practice represented by the item may warrant attention. An exception to this interpretation is the “coming to class unprepared” item (item 1f.) where a negative sign is preferred (i.e., meaning fewer students reporting coming to class unprepared).