

# College Student Experience Questionnaire

## Freshman Narrative for Fall 1997, Spring 1998, Spring 1999, and Spring 2000

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### Survey Methodology and Caveats

Truman freshman students living in the residence halls have been surveyed using the *College Student Experience Questionnaire* by Residential Living and the Residential College Program since Fall 1997. The *CSEQ* 3<sup>rd</sup> edition was used in early fall 1997 as a baseline pre-test measure during an early fall administration with a random sample of 1,000 resident students (N = 494, 49% response rate; N = 225 freshman students, 46.2% of respondents). This edition of the instrument was administered again in spring 1998 (April) to 390 residents who had completed the instrument in the fall and were retained in the residence halls during the spring semester (N = 225, 58% response rate [22.5% from Fall]; N = 92 freshman students, 40.9% of respondents [40.9% of Fall freshman]). These administrations of the *CSEQ* allow for the examination of developmental differences across the year. This can be done by taking a snapshot approach (freshman students in the fall, freshman students in the spring as a whole) or by tracking individual freshman students who completed the instrument in the fall and spring by ID number. In this analysis, the first approach was utilized since many respondents didn't supply ID numbers. During spring 1999 (April), the *CSEQ* 4<sup>th</sup> edition was administered to all students (approximately 2,543) residing in the residence halls (N = 927, 36.5% response rate; N = 496 freshman students, 54.2% of respondents). In spring 2000 (April), the *CSEQ* 4<sup>th</sup> edition was administered to a random sample of 1,000 students living in the residence halls (N = 423, 42% response rate; N = 188 freshman students, 44.9% of respondents).

Comparisons between the fall 1997 data (senior high school students) and spring 1998, 1999, and 2000 data should not be made except to look at developmental differences between fall 1997 and spring 1998 for Truman freshman students. Remarkably, the entering fall 1997 freshman students are not significantly different from Spring 1997 freshman students in the comparison groups on many of the scales and indices of the *CSEQ*. Caution should be used in comparing *CSEQ* 3<sup>rd</sup> edition data with *CSEQ* 4<sup>th</sup> edition data. The Activity (Effort) scales were changed substantially between the third and fourth editions (several scales deleted, several added, and questions changed within scales). The Environment and Gains scales remained the same or very similar. Indices such as the Good Practice Index and Lifelong Learning that are comprised of questions from across the entire instrument need to be compared with caution.

Some caution should also be utilized in comparing Truman data on the *CSEQ* 4<sup>th</sup> edition with comparison groups since the sample size for some comparison groups is small, particularly when examining by gender groups. This is the result of the *CSEQ* 4<sup>th</sup> edition only being available since spring 1998 and a limited number of institutions utilizing the instrument each year. Truman students completing the *CSEQ* in 1999 were compared with students from the other institutional groups who also completed the instrument in 1999. Similar comparisons were conducted for 2000 as well. The comparison groups are: Comprehensive Colleges and Universities (CCU), Selective Liberal Arts Colleges (SLA), and General Liberal Arts Colleges (GLA). Institutions are categorized for inclusion in comparison groups using the Carnegie classification system. Truman is included in the CCU category. Truman data was removed from the CCU group before making comparisons with the other groups. Comparisons between Truman and other groups were conducted by first examining statistically significant mean differences (ANOVA and then Scheffé Post-hoc tests between Truman and comparison groups were conducted) and then by calculating the effect size (practical significance) for the mean differences. Moderate (0.5 to 0.8) and large (greater than 0.8) effect size would be of practical significance while small effect size (0.2 to 0.5) would not. Identifying large effect sizes are usually rare in *CSEQ* type research.

## **Difference between Truman and Comparison Group Freshman**

**Activity Scales:** Truman freshman students were not significantly different from the comparison group freshman students in spring 1998, 1999, and 2000 across all scales with the exception of Writing/Quantitative Experiences for spring 2000 where a moderately positive effect size was identified for the SLA comparison. Experience in Writing (CCU, SLA, GLA), Experiences with Faculty (SLA, GLA), Clubs and Organizations (SLA), Topics of Conversation (SLA), Information in Conversations (SLA), and Athletic and Recreation Facilities (SLA).

**Environment Scales:** Truman freshman students were not significantly different from comparison group freshman students in spring 1998, 1999, and 2000 across all scales with the following exceptions: Developing Scholarly and Intellectual Qualities (spring 1999, moderate positive vs. CCU), Emphasis on Critical Analysis (spring 2000, moderate positive versus CCU), Diversity (spring 1999 and 2000, moderate negative versus SLA), Developing Vocational/Occupational Competence (spring 2000, moderate negative versus GLA), and Emphasis on Personal Relevance/Practical Value of Courses (spring 2000, moderate negative versus GLA). Freshman students appear to perceive the Truman environment as emphasizing the development of scholarly/intellectual qualities and critical analysis compared to comprehensive institutions while they perceive less emphasis on diversity issues (versus SLA), the development of occupational competence (versus GLA), and the practical relevance/value of courses (versus GLA). Positive effect sizes were noted between fall 1997 Truman freshman students and 1997 comparison group freshman students on two scales: Developing Scholarly and Intellectual Qualities (large positive versus CCU, moderate positive versus SLA) and Emphasis on Critical Analysis (moderate positive versus CCU). Again, the emphasis on the development of scholarly/ intellectual qualities and critical analysis in the Truman environment is perceived strongly by relatively new freshman students.

**Gain Scales:** Truman freshman students were not significantly different from comparison group freshman students in Spring 1998, 1999, and 2000 across all scales with the following exceptions: Vocational Training (spring 1998 and 2000, moderate negative versus GLA), Knowledge About Other Parts of the World/People (spring 1998, moderate negative versus GLA), Awareness of Different Philosophies/Cultures (spring 1998, moderate negative versus SLA), and Developing Good Health Habits (spring 2000, moderate positive versus SLA). Freshman students appear to have made fewer gains in acquiring knowledge and skills applicable to specific jobs or types of work than freshman students at general liberal arts colleges. They also appear in some years to have made fewer gains in terms of their awareness and knowledge of different cultures, philosophies, people, and parts of the world when compared to students at other liberal arts institutions.

**Selected Reading, Writing, and Satisfaction Questions:** Truman freshman students were not significantly different from comparison group freshman students in spring 1998, 1999, and 2000 except for the number of textbooks/assigned books read in spring 1998 (moderate negative versus SLA).

**Good Practice and Capacity for Lifelong Learning Indices:** There were no significant differences in spring 1998, 1999, and 2000 on the Good Practice and Capacity for Lifelong Learning Indices.

## **Difference between Truman and Comparison Group Freshman by Gender**

**Activity Scales:** Truman freshman female students were not significantly different from the comparison group freshman female students in spring 1998, 1999, and 2000 across all scales with the exception of Library Experiences, Computer/IT Scale, Art/Music/Theater, Campus Facilities, Student Acquaintances, Science/Quantitative Experiences, and Topics of Conversation. Truman spring 2000 freshman women had a moderately positive effect size compared to women at comprehensive universities on the Library Experiences, Computer/IT, and Campus Facilities scales. A moderately positive effect size for Truman freshman female students was also noted in comparisons on the Art/Music/Theater (spring 1998, CCU; spring 2000, GLA) and Science/Quantitative Experiences (spring 2000, SLA) scales. Truman spring 1998 freshman women had a moderately negative effect size compared to freshman women at selective liberal arts institutions on the Student Acquaintances and Topics of Conversation Scales.

Truman freshman male students were not significantly different from the comparison group freshman male students in spring 1998, 1999, and 2000 across all scales with the exception of Experiences with Faculty, Art/Music/Theater, Campus Facilities, Clubs and Organizations, and Science/Quantitative Experiences. Moderately positive effect sizes for Truman freshman men were noted in comparisons on the Art/Music/Theater (spring 1999, CCU), Campus Facilities (spring 2000, CCU), Clubs and Organizations (Spring 1999, SLA), and Science/Quantitative Experiences (spring 2000, CCU) scales. Truman spring 1998 freshman male students had moderately negative effect sizes on the Experiences with Faculty scale when compared with freshman male students at selective and general liberal arts institutions.

**Environment Scales:** Truman freshman female students were not significantly different from comparison group freshman female students in spring 1998, 1999, and 2000 across all scales with the following exceptions: Developing Scholarly and Intellectual Qualities (spring 1998, 1999, and 2000, moderate positive vs. CCU), Emphasis on Critical Analysis (spring 1999 and 2000, moderate positive versus CCU), Diversity (spring 1999 and 2000, moderate negative versus SLA; spring 1999, moderate negative versus GLA), and Emphasis on Personal Relevance/Practical Value of Courses (spring 1999, moderate negative versus SLA; spring 2000, moderate negative versus GLA). Truman freshman male students were not significantly different from comparison group freshman male students in spring 1998, 1999, and 2000 across all scales with the following exceptions: Emphasis on Developing Vocational/Occupational Competence (spring 2000 versus CCU and GLA) and Personal Relevance/Practical Value of Courses (spring 1998, moderate negative versus CCU and SLA; spring 1999, moderate negative versus SLA; spring 2000 moderate negative versus CCU and GLA).

**Gain Scales:** Truman freshman female students were not significantly different from comparison group freshman female students in Spring 1998, 1999, and 2000 across all scales with the following exceptions: Vocational Training (spring 1999 and 2000, moderate negative versus CCU), Specialization, General Education, Knowledge About Other Parts of the World/People, Enjoyment of Art/Music/Theater, Awareness of Different Philosophies/Cultures, Developing Good Health Habits, and Synthesis. Truman spring 1999 and 2000 freshman women had a moderately negative effect size when compared to freshman women at comprehensive institutions on the Vocational Training scale. On the Enjoyment of Art/Music/Theater scale, spring 1998 Truman freshman females had a moderately positive effect size compared to freshman female students at comprehensive institutions. Truman spring 1998 freshman women had a moderately negative effect size when compared to freshman women at selective liberal arts institutions on the Specialization, General Education, Knowledge About Other Parts of the World, Awareness of Different Philosophies/Cultures, and Synthesis scales. Truman spring 2000 female students had a moderately negative effect size compared with female students at selective liberal arts institutions on the Developing Good Health Habits scale. Truman freshman male students were not significantly different from comparison group freshman male students in spring 1998, 1999, and 2000 across all scales with the following exceptions: Vocational Training (spring 1998, large negative versus GLA; spring 2000, moderate negative versus CCU), History (spring 1998, moderate negative versus SLA), Understanding Self (spring 1998 and 1999, moderate negative versus SLA), Developing Good Health Habits (spring 1998 moderate negative versus CCU), and Quantitative Thinking (spring 1998, moderate negative versus SLA).

**Selected Reading, Writing, and Satisfaction Questions:** Truman freshman female students were not significantly different from comparison group freshman female students in spring 1998, 1999, and 2000 except for the number of textbooks/assigned books read in spring 1998 (large negative versus SLA). Truman freshman male students were not significantly different from comparison group freshman male students in spring 1998, 1999, and 2000 except for the number of textbooks/assigned books read in spring 1998 (moderate negative versus SLA), how well the college is liked in spring 1998 (large negative versus CCU and SLA), and the Satisfaction Index in Spring 1998 (large negative versus CCU and SLA).

**Good Practice and Capacity for Lifelong Learning Indices:** Truman freshman female students were not significantly different from comparison group freshman female students in spring 1998, 1999, and 2000 except for Faculty-Student Interaction (spring 2000, moderate positive versus CCU) and Peer Cooperation (spring 2000, moderate positive versus CCU). Truman freshman male students were not significantly different from comparison group freshman male students in spring 1998, 1999, and 2000 except for the Capacity for Lifelong Learning Index in spring 1998 (moderate negative versus SLA).

### **Truman Freshman Developmental Differences Fall 1997-Spring 1998**

**Activity Scales:** Positive differences of practical significance (increased engagement) were observed on five of the 14 *CSEQ* 3<sup>rd</sup> edition Activities scales (Library Experiences, Experience in Writing, Experiences with Faculty, Science/Quantitative Experiences, and Student Union/Center) for Truman freshman students between early Fall 1997 and late Spring 1998.

**Environment Scales:** Freshman students' perception of the Truman environment did not change substantially (level of practical significance) between Fall 1997 and Spring 1998.

**Gain Scales:** Positive differences of practical significance (degree of progress) were also observed on three of the 23 Gain scales (Enjoyment of Art, Music, and Drama; Writing Clearly and Effectively; and Understanding the Nature of Science and Experimentation) for Truman freshman students between early Fall 1997 and late Spring 1998.

**Selected Reading, Writing, and Satisfaction Questions:** For the Reading and Writing Questions, positive differences of practical significance were observed on all four questions (Number of Textbooks/Assigned Books Read, Number of Non-assigned books read, Number of Exams Written, Number of Term Papers Written) for Truman freshman students between early Fall 1997 and late Spring 1998. For the two Satisfaction questions (How Well College is Liked and Would attend Same Institution Again) and Satisfaction Index, negative differences of practical significance were observed for Truman freshman students between early Fall 1997 and late Spring 1998.

**Good Practice and Capacity for Lifelong Learning Indices:** Positive differences of practical significance were observed on all three Good Practice Indices (Faculty-Student Interaction, Active Learning, and Peer Cooperation) for Truman freshman students between early Fall 1997 and late Spring 1998. Freshman students did not differ at a level of practical significance on the Lifelong-Learning Index between early Fall 1997 and late Spring 1998.

### **Truman Freshman Differences Spring 1999-Spring 2000**

No significant mean differences on all scales, indices and selected questions were observed when comparing spring 1999 and spring 2000 freshman students.

### **Truman Freshman Differences by Gender for Fall 1997, Spring 1998, Spring 1999, and Spring 2000**

**Activity Scales:** In spring 1998, the means for Truman freshman women differed at a level of practical significance (more engagement) from Truman freshman men on two Activities scales (Art/Music/Theater and Personal Experiences). There were no mean differences of practical significance on any other Activities scales across the four semesters.

**Environment Scales:** There were no mean differences between freshman male and female students of practical significance on any of the Environment scales across the four semesters.

**Gain Scales:** Truman freshman women differed at a level of practical significance (greater degree of progress) from Truman freshman men on 12 Gain scales (Vocational Training, Spring 1998; Specialization, Spring 1998; General Education, Spring 1998; Career Information, Spring 1998; History, Spring 1998; Writing, Spring 1998; Use of Computers, Spring 1998; Developing Values and Ethics, Spring 1998; Understanding Yourself, Spring 1998, 1999, and 2000; Understanding and Getting Along with Others, Spring 1998, Spring 1999; Quantitative Thinking, Spring 1998; Adapting to Change, Spring 1999). Truman freshman men differed at a level of practical significance (greater degree of progress) from Truman freshman women on only one Gain scale (History, Spring 2000). There appears to be a pattern in which Truman freshman females report making greater gains than their male counterparts in understanding their abilities, interests, and personalities as well as understanding other people and developing the ability to get along with different kinds of people.

***Selected Reading, Writing, and Satisfaction Questions:*** For the Reading and Writing Questions, Truman freshman women differed at a level of practical significance (greater frequency) from Truman freshman men on three of the questions (Number of Textbooks/Assigned Books Read, Spring 1999, 2000; Number of Non-assigned books read, Spring 2000; Number of Term Papers Written; Spring 1999, 2000). Truman freshman males differed at a level of practical significance (greater frequency) from Truman freshman females on one of the questions (Number of Textbooks/Assigned Books Read, Spring 1998). For the Satisfaction Questions and Index, Truman freshman women differed at a level of practical significance (greater satisfaction) from Truman freshman men (How Well College is Liked, Spring 1998; Would attend Same Institution Again, Spring 1998, 2000; and Satisfaction Index, Spring 1998, 2000).

***Good Practice and Capacity for Lifelong Learning Indices:*** Truman freshman women differed at a level of practical significance (greater engagement/capacity) from Truman freshman men on the Active Learning (Spring 1998), Peer Cooperation (Fall 1997, Spring 1998), and Capacity for Lifelong-Learning (Spring 1998) Indices. Truman freshman males differed at a level of practical significance (greater engagement/capacity) from Truman freshman females on the Faculty-Student Interaction Index (Spring 2000).

## College Student Experience Questionnaire

## Good Practice and Capacity for Lifelong Learning Indices for Freshman by Year (Fall 1997, Spring 1998, Spring 1999, Spring 2000), Gender, and Institutional Type

Third Edition (1997 &amp; 1998)

Fourth Edition (1999 &amp; 2000)

**Bold** = Significant Differences (Scheffe Post Hoc at .05 level); Truman Mean Greater than Comparison Group**Bold Italic** = Significant Differences (Scheffe Post Hoc at .05 level); Truman Mean Less than Comparison Group**Bold** = Significant Differences, Truman Means differ by 2.0 or more on Faculty Student Interaction, Peer Cooperation, and Lifelong Learning, 4.0 or more on Active Learning per 1997 CSEQ manual

Effect Size = Indicator of "practical significance" of the magnitude of the difference difference between means

Small = 0.2 to 0.5 (regular font, no shading)

Moderate = 0.5 to 0.8 (**bold** [Truman positive] or **bold italic** [Truman negative])Large = Greater than 0.8 (**bold** [Truman positive] or **bold italic** [Truman negative])

## Good Practice Index

(Three Principles of Good Practice in Undergraduate Education)

## 1. Faculty-Student Interaction

	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	219	21.52	5.26	2462	24.67	6.32	<b>-3.15</b>	<b>-0.50</b>	1744	27.11	6.62	<b>-5.59</b>	<b>-0.85</b>	2482	26.29	6.34	<b>-2.70</b>	-0.43
Male	70	22.07	5.79	833	24.54	6.36	<b>-2.47</b>	-0.39	624	26.75	6.34	<b>-4.68</b>	<b>-0.74</b>	1104	26.16	6.37	<b>-4.09</b>	<b>-0.64</b>
Female	149	21.26	5.00	1627	24.74	6.30	<b>-3.48</b>	<b>-0.55</b>	1120	27.32	6.77	<b>-6.06</b>	<b>-0.89</b>	1374	26.39	6.33	<b>-5.13</b>	<b>-0.81</b>
Diff F-M		-0.81			0.20					0.57					0.23			
Spring 1998	91	25.52	5.32	1206	24.37	6.16	1.14		527	27.38	6.45	-1.86		571	28.00	6.73	<b>-2.48</b>	-0.37
Male	22	24.45	4.31	447	24.72	6.56	-0.27		294	27.28	6.44	-2.82		243	27.80	6.41	-3.34	
Female	69	25.86	5.59	759	24.17	5.91	1.69		231	27.55	6.46	-1.69		327	28.09	6.89	-2.23	
Diff F-M		1.40			-0.55					0.27					0.29			
Spring 1999	483	22.52	4.93	3008	22.02	5.39	0.50		320	22.04	4.75	0.49		250	24.84	6.05	<b>-2.32</b>	-0.38
Male	94	22.80	5.64	1014	22.03	5.45	0.77		121	21.76	4.79	1.04		108	25.36	6.38	<b>-2.56</b>	-0.40
Female	386	22.42	4.74	1972	22.00	5.36	0.42		196	22.21	4.76	0.21		141	24.45	5.79	<b>-2.03</b>	-0.35
Diff F-M		-0.38			-0.03					0.46					-0.91			
Spring 2000	185	22.83	5.18	3291	21.32	5.61	<b>1.51</b>	0.27	28	21.96	4.56	0.87		695	23.09	5.78	-0.26	
Male	48	24.98	5.92	1085	21.43	5.68	<b>3.55</b>	<b>0.62</b>	7	21.14	2.27	3.84		302	23.30	5.75	1.68	
Female	136	22.06	4.70	2167	21.25	5.57	0.81		21	22.24	5.12	-0.18		361	22.95	5.92	-0.89	
Diff F-M		<b>-2.92</b>			-0.18					1.10					-0.35			

## 2. Active Learning

	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	211	52.55	10.08	2402	56.67	10.73	<b>-4.11</b>	-0.38	1705	59.22	10.55	<b>-6.66</b>	<b>-0.63</b>	2442	57.29	10.64	<b>-4.74</b>	-0.44
Male	64	50.48	10.17	805	54.19	10.70	<b>-3.71</b>	-0.35	604	56.38	10.09	<b>-5.90</b>	<b>-0.58</b>	1082	55.19	10.64	<b>-4.70</b>	-0.44
Female	147	53.46	9.95	1595	57.90	10.52	<b>-4.44</b>	-0.42	1101	60.78	10.48	<b>-7.32</b>	<b>-0.70</b>	1358	58.97	10.34	<b>-5.51</b>	<b>-0.53</b>
Diff F-M		2.97			3.70					4.39					3.78			
Spring 1998	89	57.12	10.04	1169	55.91	10.63	1.22		508	59.29	10.74	-2.17		556	58.68	11.30	-1.56	
Male	22	53.50	7.79	430	54.17	11.16	-0.67		281	57.96	11.04	-4.46		233	56.80	11.83	-3.30	
Female	67	58.31	10.45	739	56.92	10.18	1.40		225	60.95	10.18	-2.64		322	59.93	10.54	-1.62	
Diff F-M		<b>4.81</b>			2.74					2.99					3.13			
Spring 1999	484	42.10	7.09	2941	40.37	7.49	<b>1.73</b>	0.23	317	41.57	7.23	0.53		243	42.40	8.24	-0.30	
Male	92	40.85	7.51	1001	39.24	7.50	1.61		120	40.08	7.26	0.76		104	42.51	8.24	-1.66	
Female	389	42.40	6.99	1918	40.93	7.41	<b>1.47</b>	0.20	194	42.43	7.11	-0.03		138	42.30	8.30	0.09	
Diff F-M		1.55			1.69					2.34					-0.21			
Spring 2000	182	42.59	7.33	3223	40.51	7.92	<b>2.08</b>	0.26	29	40.03	7.66	2.55		679	41.47	7.59	1.12	
Male	48	42.81	8.70	1062	39.57	7.98	3.24		7	38.14	4.56	4.67		298	40.00	7.51	2.82	
Female	133	42.53	6.83	2122	40.98	7.86	1.55		22	40.64	8.42	1.89		352	42.59	7.53	-0.07	
Diff F-M		-0.29			1.41					2.49								

Good Practice and Capacity for Lifelong-Learning Indices

		Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
		N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
3. Peer Cooperation/ Cooperation Among Students	Fall 1997	216	26.58	6.30	2408	28.28	7.20	-1.70	-0.24	1679	30.44	7.05	-3.86	-0.55	2434	28.59	7.10	-2.01	-0.28
	Male	70	25.20	6.78	813	26.41	7.09	-1.21	-0.17	600	28.17	6.64	-2.97	-0.45	1077	26.64	6.82	-1.44	
	Female	146	27.24	5.97	1593	29.22	7.06	-1.98	-0.28	1079	31.70	6.95	-4.46	-0.64	1353	30.14	6.91	-2.90	-0.42
	Diff F-M		2.04			2.82					3.53					3.50			
	Spring 1998	88	29.65	7.11	1187	28.24	7.40	1.41		515	30.67	7.56	-1.02		580	28.60	7.06	1.05	
	Male	21	26.19	7.86	437	26.56	7.55	-0.37		288	29.18	7.68	-2.99		248	26.32	6.45	-0.13	
	Female	67	30.73	6.56	750	29.22	7.15	1.51		225	32.58	7.01	-1.85		331	30.29	7.03	0.44	
	Diff F-M		4.54			2.66					3.40					3.96			
	Spring 1999	487	20.65	4.35	3037	19.67	4.55	0.97	0.21	318	19.87	3.78	0.77		249	21.63	4.84	-0.99	-0.20
	Male	95	20.12	4.95	1029	19.26	4.52	0.86		121	19.02	3.52	1.09		107	21.79	4.90	-1.68	
	Female	389	20.78	4.20	1984	19.87	4.54	0.91	0.20	194	20.38	3.88	0.40		141	21.50	4.82	-0.72	
	Diff F-M		0.67			0.61					1.36					-0.29			
	Spring 2000	188	21.01	4.41	3329	19.41	4.58	1.60	0.35	27	19.85	3.20	1.15		696	20.66	4.53	0.35	
	Male	50	21.70	5.42	1097	18.91	4.68	2.79	0.60	6	19.83	3.60	1.87		303	20.44	4.24	1.26	
	Female	137	20.72	3.96	2190	19.67	4.50	1.05		21	19.86	3.17	0.86		358	20.83	4.71	-0.12	
	Diff F-M		-0.98			0.76					0.02					0.40			
		Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
		N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Capacity for Lifelong Learning Index	Fall 1997	218	25.28	6.15	2389	27.15	6.01	-1.87	-0.31	1743	28.71	5.68	-3.43	-0.60	2443	27.97	5.76	-2.70	-0.47
	Male	69	24.49	6.48	815	26.90	6.20	-2.40	-0.39	620	28.18	5.51	-3.68	-0.67	1084	27.38	6.03	-2.88	-0.48
	Female	149	25.64	5.98	1574	27.28	5.91	-1.64	-0.28	1123	29.00	5.76	-3.37	-0.58	1356	28.46	5.48	-2.82	-0.51
	Diff F-M		1.14			0.38					0.83					1.08			
	Spring 1998	91	27.09	5.13	1187	27.27	5.96	-0.18		520	28.90	6.18	-1.81		575	28.05	6.05	-0.96	
	Male	22	24.77	5.67	437	27.04	6.22	-2.26		290	28.83	6.14	-4.05	-0.66	245	27.85	6.18	-3.08	
	Female	69	27.83	4.75	750	27.41	5.81	0.42		228	28.98	6.21	-1.15		329	28.25	5.89	-0.42	
	Diff F-M		3.05			0.37					0.15					0.40			
	Spring 1999	479	32.43	6.52	2996	32.46	6.52	-0.03		320	33.29	6.12	-0.86		244	33.31	6.36	-0.89	
	Male	92	31.46	6.32	1020	32.20	6.42	-0.74		124	33.82	6.15	-2.37		104	33.07	6.41	-1.61	
	Female	384	32.64	6.56	1952	32.57	6.57	0.07		193	32.93	6.14	-0.29		139	33.42	6.30	-0.78	
	Diff F-M		1.18			0.37					-0.89					0.35			
	Spring 2000	183	32.49	6.24	3237	31.84	6.70	0.64		29	31.00	6.93	1.49		685	33.38	6.76	-0.89	
	Male	49	31.45	6.18	1075	31.75	6.68	-0.30		8	32.00	3.07	-0.55		298	33.44	6.39	-1.99	
	Female	133	32.88	6.26	2120	31.90	6.70	0.98		21	30.62	7.96	2.26		354	33.21	7.12	-0.33	
	Diff F-M		1.43			0.14					-1.38					-0.23			

## College Student Experience Questionnaire

## Good Practice and Capacity for Lifelong Learning Indices for Freshman by Year (Fall 1997, Spring 1998, Spring 1999, Spring 2000) and Institutional Type

Third Edition (1997 &amp; 1998)

Fourth Edition (1999 &amp; 2000)

**Bold** = Significant Differences (Scheffe Post Hoc at .05 level); Truman Mean Greater than Comparison Group**Bold Italic** = Significant Differences (Scheffe Post Hoc at .05 level); Truman Mean Less than Comparison Group**Bold** = Significant Differences, Truman Means differ by 2.0 or more on Faculty Student Interaction, Peer Cooperation, and Lifelong Learning, 4.0 or more on Active Learning per 1997 CSEQ manual

Effect Size = Indicator of "practical significance" of the magnitude of the difference between means

Small = 0.2 to 0.5 (regular font, no shading)

Moderate = 0.5 to 0.8 (**bold** [Truman positive] or **bold italic** [Truman negative])Large = Greater than 0.8 (**bold** [Truman positive] or **bold italic** [Truman negative])

## Good Practice Index

(Three Principles of Good Practice in Undergraduate Education)

## 1. Faculty-Student Interaction

	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	219	21.52	5.26	2462	24.67	6.32	<b>-3.15</b>	<b>-0.50</b>	1744	27.11	6.62	<b>-5.59</b>	<b>-0.85</b>	2482	26.29	6.34	<b>-2.70</b>	-0.43
Spring 1998	91	25.52	5.32	1206	24.37	6.16	1.14		527	27.38	6.45	-1.86		571	28.00	6.73	<b>-2.48</b>	-0.37
Diff 98-97		<b>4.00</b>			-0.30					0.27					1.71			
Spring 1999	483	22.52	4.93	3008	22.02	5.39	0.50		320	22.04	4.75	0.49		250	24.84	6.05	<b>-2.32</b>	-0.38
Spring 2000	185	22.83	5.18	3291	21.32	5.61	<b>1.51</b>	0.27	28	21.96	4.56	0.87		695	23.09	5.78	-0.26	
Diff 2000-99		0.31			-0.70					-0.07					-1.75			

## 2. Active Learning

	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	211	52.55	10.08	2402	56.67	10.73	<b>-4.11</b>	-0.38	1705	59.22	10.55	<b>-6.66</b>	<b>-0.63</b>	2442	57.29	10.64	<b>-4.74</b>	-0.44
Spring 1998	89	57.12	10.04	1169	55.91	10.63	1.22		508	59.29	10.74	-2.17		556	58.68	11.30	-1.56	
Diff 98-97		<b>4.57</b>			-0.76					0.07					1.39			
Spring 1999	484	42.10	7.09	2941	40.37	7.49	<b>1.73</b>	0.23	317	41.57	7.23	0.53		243	42.40	8.24	-0.30	
Spring 2000	182	42.59	7.33	3223	40.51	7.92	<b>2.08</b>	0.26	29	40.03	7.66	2.55		679	41.47	7.59	1.12	
Diff 2000-99		0.49			0.14					-1.54					-0.93			

## 3. Peer Cooperation/ Cooperation Among Students

	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	216	26.58	6.30	2408	28.28	7.20	<b>-1.70</b>	-0.24	1679	30.44	7.05	<b>-3.86</b>	<b>-0.55</b>	2434	28.59	7.10	<b>-2.01</b>	-0.28
Spring 1998	88	29.65	7.11	1187	28.24	7.40	1.41		515	30.67	7.56	-1.02		580	28.60	7.06	1.05	
Diff 98-97		<b>3.07</b>			-0.04					0.23					0.01			
Spring 1999	487	20.65	4.35	3037	19.67	4.55	<b>0.97</b>	0.21	318	19.87	3.78	0.77		249	21.63	4.84	<b>-0.99</b>	-0.20
Spring 2000	188	21.01	4.41	3329	19.41	4.58	<b>1.60</b>	0.35	27	19.85	3.20	1.15		696	20.66	4.53	0.35	
Diff 2000-99		0.36			-0.27					-0.02					-0.98			

## Capacity for Lifelong-learning Index

	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	218	25.28	6.15	2389	27.15	6.01	<b>-1.87</b>	-0.31	1743	28.71	5.68	<b>-3.43</b>	<b>-0.60</b>	2443	27.97	5.76	<b>-2.70</b>	-0.47
Spring 1998	91	27.09	5.13	1187	27.27	5.96	-0.18		520	28.90	6.18	-1.81		575	28.05	6.05	-0.96	
Diff 98-97		1.81			0.12					0.19					0.08			
Spring 1999	479	32.43	6.52	2996	32.46	6.52	-0.03		320	33.29	6.12	-0.86		244	33.31	6.36	-0.89	
Spring 2000	183	32.49	6.24	3237	31.84	6.70	0.64		29	31.00	6.93	1.49		685	33.38	6.76	-0.89	
Diff 2000-99		0.06			-0.61					-2.29					0.07			



### College Student Experience Questionnaire

#### Freshman Activity Scale Scores by Year (Fall 1997, Spring 1998, Spring 1999, Spring 2000), Gender, and Institutional Type

Scale: Very Often = 4, Often = 3, Occasionally = 2, Never = 1

Third Edition (1997 & 1998), 10 Questions per Scale (Sum of Response Values X 10)

Fourth Edition (1999, 2000), Varying Number of Questions per Scale (Sum of Response Values/Number of Questions)

**Bold** = Significant Differences (Scheffe Post Hoc at .05 level), Truman Mean Greater than Comparison Group

**Bold italic** = Significant Differences (Scheffe Post Hoc at .05 level), Truman Mean Less than Comparison Group

**Bold** = Significant Differences (1997 & 1998 Truman Means differ by 2.0 or more per 1997 CSEQ manual)

Effect Size = Indicator of "practical significance" of the magnitude of the difference between means

Small = 0.2 to 0.5 (regular font, no shading)

Moderate = 0.5 to 0.8 (**bold** [Truman positive] or **bold italic** [Truman negative])

Large = Greater than 0.8 (**bold** [Truman positive] or **bold italic** [Truman negative])

#### Library Experiences

	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	225	17.17	4.27	2555	18.08	5.00	-0.91		1809	19.61	4.78	<b>-2.44</b>	<b>-0.51</b>	2564	19.21	4.80	<b>-2.04</b>	-0.43
Male	71	16.68	4.11	875	18.10	5.32	-1.42		647	19.03	4.75	<b>-2.35</b>	-0.49	1146	18.98	4.95	<b>-2.30</b>	-0.46
Female	154	17.40	4.33	1677	18.08	4.81	-0.68		1162	19.93	4.77	<b>-2.53</b>	<b>-0.53</b>	1413	19.39	4.66	<b>-1.99</b>	-0.43
Diff F-M		0.72			-0.02					0.90					0.41			
Spring 1998	92	19.38	4.84	1240	17.71	4.72	<b>1.67</b>	0.35	544	20.25	5.02	-0.87		596	19.71	5.04	-0.33	
Male	22	18.32	3.76	456	17.95	5.05	0.37		302	19.70	5.13	-1.38		255	20.00	5.63	-1.68	
Female	70	19.71	5.11	784	17.57	4.51	<b>2.14</b>	0.47	240	20.95	4.81	-1.24		340	19.45	4.47	0.26	
Diff F-M		1.39			-0.38					1.25					-0.55			
Spring 1999	491	2.76	0.98	3035	2.44	1.08	<b>0.32</b>	0.30	319	2.70	1.04	0.06		254	2.71	1.12	0.05	
Male	98	2.71	1.05	1039	2.42	1.09	0.29		121	2.50	0.99	0.22		111	2.88	1.14	-0.17	
Female	390	2.77	0.96	1973	2.44	1.08	<b>0.33</b>	0.31	195	2.83	1.06	-0.06		142	2.58	1.09	0.19	
Diff F-M		0.06			0.02					0.33					-0.30			
Spring 2000	186	2.81	1.01	3344	2.33	1.12	<b>0.48</b>	0.43	28	2.32	0.98	0.49		696	2.48	1.10	<b>0.33</b>	0.30
Male	50	2.58	1.05	1113	2.32	1.17	0.26		6	2.00	0.89	0.58		304	2.36	1.12	0.22	
Female	135	2.91	0.97	2190	2.34	1.08	<b>0.57</b>	<b>0.53</b>	22	2.41	1.01	0.50		360	2.55	1.08	<b>0.36</b>	0.34
Diff F-M		0.33			0.01					0.41					0.19			

#### Computer and IT Scale

	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*	
Spring 1998	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*	
Spring 1999	491	3.24	0.91	3063	3.13	1.03	0.10		323	3.22	0.86	0.02		250	3.38	1.03	-0.14	
Male	97	3.32	1.09	1049	3.19	1.09	0.13		124	3.19	0.86	0.13		108	3.55	1.07	-0.23	
Female	391	3.21	0.86	1991	3.10	1.00	0.11		196	3.24	0.86	-0.03		141	3.26	0.99	-0.05	
Diff F-M		-0.11			-0.09					0.05					-0.29			
Spring 2000	186	3.47	1.01	3339	3.18	1.11	<b>0.29</b>	0.27	29	3.14	1.06	0.34		700	3.33	1.10	0.14	
Male	49	3.90	1.10	1117	3.30	1.19	<b>0.60</b>	<b>0.51</b>	8	2.75	0.71	1.15		304	3.47	1.07	0.43	
Female	136	3.32	0.93	2179	3.11	1.05	0.20		21	3.29	1.15	0.03		364	3.22	1.12	0.10	
Diff F-M		-0.58			-0.18					0.54					-0.25			

## Activity

## Course Learning

(Different Scale Used, high to low)

	Truman			Comprehensive College & Univ			TRU-CCU			Selective Liberal Arts Colleges			TRU-SLA			General Liberal Arts Colleges			TRU-GLA		
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size	
Fall 1997	225	25.80	5.13	2555	26.76	5.72	-0.96			1805	27.67	5.57	-1.87	-0.34		2558	26.61	5.52	-0.81		
Male	71	24.59	5.36	876	25.5	5.44	-0.91			645	26.26	5.54	-1.67			1142	25.43	5.4	-0.84		
Female	154	26.36	4.95	1676	27.43	5.72	-1.07			1160	28.45	5.43	-2.09	-0.38		1411	27.58	5.41	-1.22		
Diff F-M		1.77			1.93						2.19						2.15				
Spring 1998	92	26.47	4.97	1241	26.60	5.56	-0.13			541	28.52	5.45	-2.05	-0.38		596	26.81	5.66	-0.34		
Male	22	25.36	4.67	455	25.47	5.92	-0.11			300	27.83	5.60	-2.47	-0.44		255	25.67	5.49	-0.31		
Female	70	26.81	5.05	786	27.26	5.23	-0.45			239	29.40	5.15	-2.59			340	27.62	5.61	-0.81		
Diff F-M		1.45			1.79						1.57						1.95				
Spring 1999	485	4.08	0.92	3018	3.84	0.99	0.24	0.24		319	4.08	0.92	0.00			248	4.15	1.10	-0.07		
Male	92	3.86	0.93	1032	3.69	0.98	0.17			122.00	3.89	0.95	-0.03			107	4.02	1.09	-0.16		
Female	390	4.14	0.90	1963	3.91	0.98	0.22	0.23		194.00	4.20	0.89	-0.06			140	4.24	1.10	-0.11		
Diff F-M		0.28			0.22						0.31						0.22				
Spring 2000	183	4.19	0.95	3282	3.81	1.01	0.37	0.37		28	4.04	0.92	0.15			688	4.00	0.95	0.18		
Male	48	4.10	1.08	1087	3.69	1.02	0.41			7	4.00	0.00	0.10			302	3.82	0.91	0.28		
Female	134	4.21	0.91	2156	3.87	1.01	0.34	0.34		21	4.05	1.07	0.16			352	4.17	0.98	0.04		
Diff F-M		0.10			0.18						0.05						0.35				

## Experience in Writing

	Truman			Comprehensive College & Univ			TRU-CCU			Selective Liberal Arts Colleges			TRU-SLA			General Liberal Arts Colleges			TRU-GLA		
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size	
Fall 1997	224	22.28	5.93	2538	25.43	6.27	-3.15	-0.50		1796	26.62	6.10	-4.34	-0.71		2546	25.63	6.05	-3.35	-0.55	
Male	71	21.41	5.65	865	23.83	6.13	-2.42	-0.39		643	25.25	6.12	-3.84	-0.63		1138	24.63	6.30	-3.22	-0.51	
Female	153	22.69	6.03	1670	26.25	6.18	-3.56	-0.58		1153	27.39	5.96	-4.70	-0.79		1403	26.45	5.70	-3.76	-0.66	
Diff F-M		1.28			2.42						2.14						1.82				
Spring 1998	92	24.98	5.85	1237	24.89	6.08	0.09			537	25.12	5.73	-0.14			592	26.90	6.17	-1.92	-0.31	
Male	22	24.32	4.50	453	23.72	6.32	0.60			298	24.82	5.92	-0.50			254	25.50	5.95	-1.18		
Female	70	25.19	6.22	784	25.56	5.83	-0.37			237	25.50	5.48	-0.31			337	27.91	6.11	-2.72	-0.45	
Diff F-M		0.87			1.84						0.68						2.41				
Spring 1999	488	3.77	0.98	3076	3.67	1.05	0.11			322	3.83	0.96	-0.0515			255	3.79	1.08	-0.01		
Male	97	3.57	0.93	1052	3.39	1.05	0.18			123	3.61	0.90	-0.04			110	3.66	1.11	-0.10		
Female	388	3.83	0.98	2000	3.81	1.02	0.02			196	3.96	0.98	-0.13			144	3.88	1.06	-0.05		
Diff F-M		0.26			0.42						0.35						0.22				
Spring 2000	188	3.68	1.03	3352	3.76	1.07	-0.08			30	3.67	0.76	0.0142			702	3.85	1.01	-0.17		
Male	50	3.64	1.16	1111	3.52	1.07	0.12			8	3.50	0.93	0.14			305	3.61	1.02	0.03		
Female	137	3.69	0.98	2200	3.89	1.05	-0.21			22	3.73	0.70	-0.04			362	4.03	0.96	-0.34	-0.36	
Diff F-M		0.05			0.37						0.23						0.42				

## Experiences with Faculty

	Truman			Comprehensive College & Univ			TRU-CCU			Selective Liberal Arts Colleges			TRU-SLA			General Liberal Arts Colleges			TRU-GLA		
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size	
Fall 1997	225	17.09	4.06	2558	19.15	5.13	-2.06	-0.40		1808	21.05	5.13	-3.96	-0.77		2564	20.48	5.14	-3.39	-0.66	
Male	71	17.34	4.34	877	19.09	5.22	-1.75			647	20.8	4.98	-3.46	-0.69		1146	20.32	5.21	-2.98	-0.57	
Female	154	16.98	3.93	1678	19.19	5.07	-2.21	-0.44		11.61	21.19	5.21	-4.21	-0.81		1413	20.61	5.08	-3.63	-0.71	
Diff F-M		-0.36			0.10						0.39						0.29				
Spring 1998	92	19.65	4.05	1242	18.87	4.86	0.78			543	21.55	5.00	-1.90	-0.38		596	21.51	5.34	-1.66	-0.35	
Male	22	18.59	3.07	456	19.13	5.13	-0.54			302	21.37	4.99	-2.78	-0.56		255	21.38	5.09	-2.79	-0.55	
Female	70	19.99	4.28	786	18.72	4.69	1.27			239	21.79	5.02	-1.80			340	21.55	5.45	-1.56		
Diff F-M		1.40			-0.41						0.42						0.17				
Spring 1999	488	2.57	1.12	3035	2.48	1.21	0.09			321	2.45	1.11	0.12			254	3.02	1.24	-0.45	-0.36	
Male	96	2.68	1.21	1030	2.52	1.20	0.15			122	2.47	1.14	0.21			109	3.08	1.23	-0.41		
Female	389	2.53	1.09	1983	2.46	1.22	0.08			196	2.44	1.10	0.09			144	2.97	1.26	-0.44	-0.35	
Diff F-M		-0.15			-0.07						-0.02						-0.11				
Spring 2000	184	2.64	1.18	3315	2.39	1.20	0.25			29	2.69	1.17	-0.05			701	2.76	1.23	-0.13	-0.10	
Male	47	2.98	1.31	1097	2.44	1.19	0.54	0.45		8	2.63	0.74	0.35			302	2.73	1.23	0.25		
Female	136	2.51	1.12	2177	2.36	1.20	0.15			21	2.71	1.31	-0.20			364	2.80	1.24	-0.29		
Diff F-M		-0.46			-0.07						0.09						0.08				

## Activity

## Art, Music, &amp; Theater

	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	225	18.75	5.02	2531	18.56	6.74	0.19		1797	21.66	6.80	-2.91	-0.43	2545	19.32	6.69	-0.57	
Male	71	17.89	4.62	870	18.46	7.09	-0.57		642	20.52	7.20	-2.63	-0.37	1134	18.17	6.55	-0.28	
Female	154	19.15	5.15	1658	18.62	6.56	0.53		1155	22.29	6.48	-3.14	-0.48	1406	20.25	6.67	-1.10	
Diff F-M		1.26			0.16					1.77					2.08			
Spring 1998	92	21.13	5.02	1237	18.30	6.01	2.83	0.47	541	22.73	6.87	-1.60		1951	6.70	5.94	14.43	
Male	22	19.45	5.58	454	18.38	6.56	1.07		300	21.32	6.93	-1.87		253	18.67	7.16	0.78	
Female	70	21.66	4.75	783	18.26	5.67	3.40	0.60	239	24.50	6.40	-2.84	-0.44	340	20.07	6.15	1.59	
Diff F-M		2.21			-0.12					3.18					1.40			
Spring 1999	492	2.66	1.20	3025	2.20	1.21	0.45	0.37	320	2.49	1.34	0.17		251	2.46	1.32	0.20	
Male	96	2.66	1.32	1030	2.04	1.18	0.62	0.52	122	2.07	1.33	0.58		109	2.38	1.35	0.28	
Female	393	2.66	1.17	1974	2.29	1.22	0.37	0.30	195	2.76	1.28	-0.10		141	2.53	1.30	0.13	
Diff F-M		0.00			0.25					0.69					0.16			
Spring 2000	186	2.73	1.26	3319	2.34	1.30	0.38	0.29	29	2.41	1.27	0.31		697	2.25	1.29	0.47	0.37
Male	48	2.63	1.45	1091	2.18	1.27	0.44		8	2.38	1.06	0.25		302	1.97	1.21	0.65	0.54
Female	137	2.77	1.20	2186	2.43	1.31	0.34	0.26	21	2.43	1.36	0.34		361	2.47	1.33	0.29	
Diff F-M		0.14			0.24					0.05					0.50			

Campus Facilities  
Scale

	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*	
Spring 1998	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*	
Spring 1999	491	3.10	1.07	3030	2.64	1.17	0.46	0.39	319	3.04	1.14	0.06		248	3.06	1.24	0.04	
Male	99	3.10	1.15	1028	2.73	1.17	0.37	0.32	122	2.99	1.02	0.11		109	3.44	1.07	-0.34	
Female	389	3.10	1.06	1978	2.59	1.17	0.51	0.44	194	3.06	1.21	0.04		138	2.76	1.29	0.34	0.26
Diff F-M		0.00			-0.14					0.06					-0.68			
Spring 2000	185	3.26	1.05	3338	2.59	1.22	0.67	0.55	29	2.76	1.02	0.50		701	2.78	1.27	0.48	0.38
Male	50	3.48	1.20	1109	2.67	1.23	0.81	0.65	8	3.13	1.36	0.36		306	2.95	1.23	0.53	0.43
Female	134	3.17	0.99	2186	2.56	1.21	0.61	0.51	21	2.62	0.86	0.55		360	2.56	1.28	0.61	0.48
Diff F-M		-0.31			-0.12					-0.51					-0.39			

## Clubs &amp; Organizations

	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	225	18.50	5.09	2548	16.99	6.72	1.51	0.22	1804	20.65	6.76	-2.15	-0.32	2553	17.85	6.27	0.65	
Male	71	17.69	5.84	874	16.35	6.61	1.34		645	18.97	6.43	-1.28		1138	16.79	5.92	0.90	
Female	154	18.88	4.67	1671	17.34	6.74	1.54		1159	21.59	6.76	-2.71	-0.40	1410	18.71	6.39	0.17	
Diff F-M		1.19			0.99					2.62					1.92			
Spring 1998	92	20.21	6.17	1239	17.53	6.91	2.68	0.39	540	21.34	6.72	-1.13		595	17.81	6.06	2.40	0.40
Male	22	18.55	6.24	453	17.54	7.32	1.01		300	20.48	6.64	-1.93		254	16.88	5.87	1.67	
Female	70	20.73	6.11	786	17.52	6.66	3.21	0.48	238	22.45	6.68	-1.72		340	18.53	6.11	2.20	
Diff F-M		2.18			-0.02					1.97					1.65			
Spring 1999	491	1.68	0.86	3061	1.47	0.78	0.21	0.26	320	1.31	0.61	0.37	0.61	253	1.80	0.98	-0.12	
Male	95	1.77	1.00	1043	1.46	0.77	0.31	0.40	123	1.21	0.50	0.56	1.11	110	1.84	0.99	-0.07	
Female	393	1.66	0.83	1994	1.47	0.79	0.18	0.23	194	1.37	0.67	0.29	0.44	142	1.77	0.97	-0.11	
Diff F-M		-0.11			0.01					0.15					-0.07			
Spring 2000	188	1.73	0.84	3356	1.39	0.75	0.34	0.45	29	1.45	0.69	0.28		701	1.53	0.79	0.20	0.25
Male	50	1.82	0.94	1114	1.41	0.76	0.41		7	1.71	0.76	0.11		304	1.53	0.77	0.29	
Female	137	1.69	0.81	2199	1.38	0.74	0.31	0.42	22	1.36	0.66	0.33		362	1.55	0.81	0.15	
Diff F-M		-0.13			-0.03					-0.35					0.02			

## Activity

## Personal Experiences

	Truman			Comprehensive College & Univ			TRU-CCU			Selective Liberal Arts Colleges			TRU-SLA			General Liberal Arts Colleges			TRU-GLA		
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size	
Fall 1997	225	20.58	5.43	2534	22.17	6.31	-1.59	-0.25		1797	23.37	6.04	-2.79	-0.46		2550	22.18	6.24	-1.60	-0.26	
Male	71	19.35	5.63	864	20.35	6.04	-1.00			642	21.55	5.82	-2.20	-0.38		1137	20.55	6.04	-1.20		
Female	154	21.14	5.26	1668	23.10	6.24	-1.96	-0.31		1155	24.39	5.92	-3.25	-0.55		1408	23.49	6.07	-2.35	-0.39	
Diff F-M		1.79			2.75						2.84						2.94				
Spring 1998	92	22.05	5.89	1235	22.46	6.37	-0.41			536	22.77	6.38	-0.72			594	23.04	6.64	-0.99		
Male	22	18.77	5.9	453	20.66	6.12	-1.89			298.00	21.58	6.55	-2.81			254	20.80	6.11	-2.03		
Female	70	23.09	5.53	782	23.51	6.28	-0.42			236.00	24.25	5.86	-1.16			339	24.66	6.49	-1.57		
Diff F-M		4.32			2.85						2.67						3.86				
Spring 1999	489	3.48	1.26	3048	3.35	1.30	0.13			321	3.31	1.27	0.18			253	3.54	1.30	-0.05		
Male	97	2.91	1.27	1034	2.85	1.25	0.06			122	2.88	1.24	0.03			108	3.27	1.31	-0.36		
Female	389	3.62	1.21	1990	3.61	1.25	0.01			196	3.56	1.21	0.06			144	3.74	1.27	-0.12		
Diff F-M		0.71			0.76						0.68						0.47				
Spring 2000	187	3.52	1.26	3354	3.40	1.35	0.12			30	3.10	1.13	0.42			706	3.41	1.35	0.11		
Male	49	3.33	1.43	1107	2.90	1.28	0.43			8	2.88	1.13	0.45			306	3.03	1.34	0.30		
Female	137	3.60	1.20	2204	3.66	1.32	-0.06			22	3.18	1.14	0.42			365	3.71	1.27	-0.11		
Diff F-M		0.27			0.76						0.31						0.68				

## Student Acquaintances

	Truman			Comprehensive College & Univ			TRU-CCU			Selective Liberal Arts Colleges			TRU-SLA			General Liberal Arts Colleges			TRU-GLA		
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size			
Fall 1997	225	24.44	6.48	2545	25.25	7.09	-0.81		1801	27.44	6.46	-3.00	-0.46	2550	26.08	6.69	-1.64	-0.25			
Male	71	24.82	7.22	869	24.85	7.06	-0.03		644	26.87	6.57	-2.05		1139	25.41	6.78	-0.59				
Female	154	24.27	6.12	1673	25.46	7.09	-1.19		1157	27.75	6.38	-3.48	-0.55	1406	26.61	6.56	-2.34	-0.36			
Diff F-M		-0.55			0.61					0.88					1.20						
Spring 1998	92	25.63	6.30	1239	24.83	6.99	0.80		540	28.17	6.74	-2.54	-0.38	596	26.72	7.06	-1.09				
Male	22	24.91	7.46	454	24.34	7.05	0.57		300	27.36	6.65	-2.45		255	26.00	6.94	-1.09				
Female	70	25.86	5.94	785	25.11	6.94	0.75		238	29.23	6.74	-3.37	-0.50	340	27.23	7.09	-1.37				
Diff F-M		0.95			0.77					1.87					1.23						
Spring 1999	488	3.63	1.27	3036	3.35	1.35	0.28	0.21	321	3.33	1.21	0.30	0.25	252	3.78	1.31	-0.15				
Male	96	3.58	1.34	1038	3.17	1.33	0.41	0.31	124	3.27	1.23	0.31		108	3.71	1.30	-0.13				
Female	389	3.63	1.24	1976	3.44	1.35	0.19		194	3.36	1.20	0.27		143	3.83	1.32	-0.20				
Diff F-M		0.04			0.27					0.09					0.11						
Spring 2000	186	3.66	1.23	3331	3.33	1.42	0.33	0.23	29	3.97	1.30	-0.30		699	3.63	1.36	0.03				
Male	50	3.80	1.14	1105	3.16	1.40	0.64	0.46	8	3.75	0.89	0.05		301	3.44	1.31	0.36				
Female	135	3.62	1.25	2186	3.41	1.42	0.21		21	4.05	1.43	-0.43		364	3.78	1.38	-0.16				
Diff F-M		-0.18			0.25					0.30					0.34						

## Science/Quantitative Experiences

	Truman			Comprehensive College & Univ			TRU-CCU			Selective Liberal Arts Colleges			TRU-SLA			General Liberal Arts Colleges			TRU-GLA		
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size			
Fall 1997	225	17.28	6.04	2540	17.58	6.95	-0.30		1787	18.31	7.38	-1.03		2540	17.12	6.95	0.16				
Male	71	17.07	6.01	872	17.84	6.85	-0.77		641	18.66	7.54	-1.59		1132.00	17.33	7.14	-0.26				
Female	154	17.38	6.07	1665	17.45	6.99	-0.07		1146	18.12	7.28	-0.74		1403.00	16.95	6.79	0.43				
Diff F-M		0.31			-0.39					-0.54					-0.38						
Spring 1998	91	19.97	5.71	1233	18.17	7.14	1.80		536	19.10	7.15	0.87		595	18.30	7.48	1.67				
Male	22	20.27	5.96	450	18.08	7.27	2.19		298	19.60	7.01	0.67		255.00	18.66	7.48	1.61				
Female	69	19.87	5.67	783	18.22	7.07	1.65		236	18.42	7.16	1.45		339.00	18.06	7.48	1.81				
Diff F-M		-0.40			0.14					-1.18					-0.60						
Spring 1999	490	3.08	1.32	3038	2.62	1.41	0.46	0.33	322	2.46	1.4231	0.61	0.43	253	2.71	1.50	0.36	0.24			
Male	99	3.23	1.45	1041	2.69	1.42	0.54	0.38	124	2.53	1.47	0.70	0.48	110	3.14	1.53	0.10				
Female	388	3.02	1.28	1975	2.58	1.40	0.44	0.32	195	2.42	1.41	0.60	0.43	142	2.37	1.40	0.65	0.46			
Diff F-M		-0.21			-0.11					-0.11					-0.76						
Spring 2000	186	3.05	1.37	3315	2.42	1.34	0.63	0.47	30	2.07	1.44	0.98	0.68	697	2.59	1.39	0.46	0.33			
Male	49	3.33	1.38	1099	2.60	1.39	0.73	0.52	8	2.25	1.39	1.08		303	2.70	1.37	0.63	0.46			
Female	136	2.95	1.37	2173	2.34	1.32	0.61	0.46	22	2.00	1.48	0.95	0.64	361	2.43	1.38	0.52	0.38			
Diff F-M		-0.38			-0.26					-0.25					-0.27						

## Topics of Conversation

	Truman			Comprehensive College & Univ			TRU-CCU			Selective Liberal Arts Colleges			TRU-SLA			General Liberal Arts Colleges			TRU-GLA		
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size	
Fall 1997	225	19.29	5.18	2529	20.48	5.92	-1.19	-0.20		1787	22.03	5.50	-2.74	-0.50		2532	20.42	5.72	-1.13	-0.20	
Male	71	19.28	5.68	865	21.01	5.93	-1.73			637	22.19	5.69	-2.91			1122	20.29	5.98	-1.01		
Female	154	19.29	4.96	1661	20.21	5.89	-0.92			1150	21.95	5.40	-2.66	-0.49		1405	20.52	5.50	-1.23	-0.22	
Diff F-M		0.01			-0.80						-0.24						0.23				
Spring 1998	91	20.75	5.43	1229	20.34	5.63	0.41			535	23.83	5.72	-3.08	-0.54		593	20.62	5.60	0.13		
Male	22	21.00	6.38	448	21.07	6.05	-0.07			295	23.45	6.01	-2.45			252	20.73	5.72	0.27		
Female	69	20.67	5.14	781	19.92	5.33	0.75			238	24.27	5.32	-3.60	-0.68		340	20.49	5.43	0.18		
Diff F-M		-0.33			-1.15						0.82						-0.24				
Spring 1999	491	3.01	1.15	3035	2.81	1.16	0.20	0.17		319	2.97	1.07	-1.81			247	2.88	1.22	0.13		
Male	97	3.01	1.12	1035	2.87	1.18	0.14			121	3.02	1.06	-0.01			107	3.15	1.23	-0.14		
Female	391	3.01	1.16	1976	2.77	1.15	0.23	0.20		195	2.94	1.08	0.07			139	2.69	1.16	0.31		
Diff F-M		-0.01			-0.09						-0.08						-0.46				
Spring 2000	187	2.97	1.12	3309	2.86	1.21	0.12			29	2.86	1.22	0.11			682	3.00	1.24	-0.02		
Male	50	3.10	1.25	1092	2.98	1.23	0.12			7	3.29	1.11	-0.19			293	2.98	1.23	0.12		
Female	136	2.94	1.06	2177	2.79	1.19	0.15			22	2.73	1.24	0.21			356	3.01	1.26	-0.07		
Diff F-M		-0.16			-0.20						-0.56						0.03				

## Information in Conversations

	Truman			Comprehensive College & Univ			TRU-CCU			Selective Liberal Arts Colleges			TRU-SLA			General Liberal Arts Colleges			TRU-GLA		
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size	
Fall 1997	225	12.36	3.08	2534	13.55	3.64	-1.19	-0.33		1793	14.18	3.41	-1.82	-0.53		2539	13.48	3.60	-1.12	-0.31	
Male	71	12.15	3.02	866	13.64	3.7	-1.49	-0.40		639	14.05	3.39	-1.90	-0.56		1132	13.32	3.76	-1.17		
Female	154	12.45	3.11	1665	13.5	3.6	-1.05	-0.29		1154	14.26	3.43	-1.81	-0.53		1402	13.60	3.46	-1.15	-0.33	
Diff F-M		0.30			-0.14						0.21						0.28				
Spring 1998	91	13.38	3.68	1232	13.32	3.54	0.06			539	14.87	3.57	-1.49	-0.42		596	13.65	3.63	-0.27		
Male	22	13.05	3.51	448	13.46	3.75	-0.41			299	14.81	3.85	-1.76			255	13.70	3.69	-0.65		
Female	69	13.49	3.74	784	13.24	3.41	0.25			238	14.96	3.2	-1.47	-0.46		340	13.58	3.56	-0.09		
Diff F-M		0.44			-0.22						0.15						-0.12				
Spring 1999	489	2.96	0.87	3003	2.95	0.94	0.01			317	3.06	0.91	-0.10			249	3.07	1.00	-0.12		
Male	97	2.92	0.99	1008	2.91	0.96	0.01			119	3.03	0.87	-0.12			106	3.11	1.11	-0.20		
Female	389	2.96	0.84	1972	2.97	0.93	0.00			195	3.07	0.94	-0.10			142	3.04	0.92	-0.08		
Diff F-M		0.05			0.06						0.03						-0.07				
Spring 2000	182	3.05	0.94	3286	2.96	0.99	0.09			28	2.96	0.88	0.09			679	3.09	1.00	-0.04		
Male	48	3.21	1.15	1077	2.94	0.98	0.26			8	2.75	0.46	0.46			291	3.08	0.98	0.13		
Female	133	3.00	0.84	2167	2.96	0.99	0.04			20	3.05	1.00	-0.05			354	3.10	1.02	-0.10		
Diff F-M		-0.21			0.02						0.30						0.02				

## Student Union/Center

	Truman			Comprehensive College & Univ			TRU-CCU			Selective Liberal Arts Colleges			TRU-SLA			General Liberal Arts Colleges			TRU-GLA		
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size	
Fall 1997	224	19.03	4.74	2545	20.41	6.50	-1.38	-0.21		1774	20.13	6.62	-1.10			2527	20.99	6.34	-1.96	-0.31	
Male	71	18.90	4.93	872	20.00	6.74	-1.10			637	19.44	6.60	-0.54			1118	20.48	6.58	-1.58		
Female	153	19.08	4.67	1670	20.65	6.35	-1.57	-0.25		1137	20.51	6.60	-1.43			1404	21.39	6.12	-2.31	-0.38	
Diff F-M		0.18			0.65						1.07						0.91				
Spring 1998	92	21.16	4.64	1237	20.61	6.58	0.55			540	22.65	6.09	-1.49			594	20.40	6.24	0.76		
Male	22	19.91	4.35	455	20.27	6.60	-0.36			299	22.19	6.32	-2.28			253	20.10	6.00	-0.19		
Female	70	21.56	4.69	782	20.81	6.57	0.75			239	23.23	5.79	-1.67			340	20.66	6.40	0.90		
Diff F-M		1.65			0.54						1.04						0.56				
Spring 1999	*	*	*	*	*	*	*			*	*	*	*			*	*	*	*		
Spring 2000	*	*	*	*	*	*	*			*	*	*	*			*	*	*	*		

Activity

Athletic and Recreation  
Facilities

	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	225	18.09	5.92	2541	18.58	7.74	-0.49		1803	22.28	8.14	-4.19	-0.51	2555	22.26	8.76	-4.17	-0.48
Male	71	19.41	6.36	871	20.45	8.42	-1.04		645	24.87	8.90	-5.46	-0.61	1140	24.93	8.76	-5.52	-0.63
Female	154	17.48	5.62	1668	17.61	7.17	-0.13		1158	20.83	7.30	-3.35	-0.46	1410	20.10	8.13	-2.62	-0.32
Diff F-M		-1.93			-2.84					-4.04					-4.83			
Spring 1998	92	19.32	5.71	1239	20.01	7.64	-0.69		540	21.31	7.69	-1.99		595	21.96	8.25	-2.64	-0.32
Male	22	19.64	6.31	455	21.68	8.10	-2.04		299	22.51	7.73	-2.87		254	24.24	8.02	-4.60	
Female	70	19.21	5.56	784	19.04	7.18	0.17		239	19.76	7.33	-0.55		340	20.21	7.96	-1.00	
Diff F-M		-0.43			-2.64					-2.75					-4.03			
Spring 1999	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*	
Spring 2000	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*	

Campus Residence

	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	225	23.32	5.90	1875	24.40	7.52	-1.08		1750	26.49	6.42	-3.17	-0.49	2354	25.14	7.15	-1.82	-0.25
Male	71	22.15	5.98	650	22.92	7.27	-0.77		630	25.22	6.08	-3.07	-0.50	1075	24.05	6.90	-1.90	
Female	154	23.85	5.80	1224	25.21	7.52	-1.36		1120	27.20	6.50	-3.35	-0.52	1274	26.06	7.22	-2.21	-0.31
Diff F-M		1.70			2.29					1.98					2.01			
Spring 1998	91	24.34	5.78	980	24.24	7.89	0.10		538	25.54	6.13	-1.20		548	25.42	7.12	-1.08	
Male	22	21.23	5.72	360	22.69	8.01	-1.46		300	24.81	6.28	-3.58		238	23.89	6.54	-2.66	
Female	69	25.33	5.47	620	25.14	7.68	0.19		236	26.49	5.82	-1.16		309	26.54	7.31	-1.21	
Diff F-M		4.10			2.45					1.68					2.65			
Spring 1999	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*	
Spring 2000	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*	

## College Student Experience Questionnaire

## Freshman Environment Scale Scores by Year (Fall 1997, Spring 1998, Spring 1999, Spring 2000), Gender, and Institutional Type

Scale: Strong Emphasis = 7 to Weak Emphasis = 1

Third Edition (1997 & 1998)  
Fourth Edition (1999, 2000)**Bold** = Significant Differences (Scheffe Post Hoc at .05 level), Truman Mean Greater than Comparison Group  
**Bold Italic** = Significant Differences (Scheffe Post Hoc at .05 level), Truman Mean Less than Comparison Group  
**Bold** = Significant Differences (Truman Means differ by 1.0 or more per 1997 CSEQ manual)Effect Size = Indicator of "practical significance" of the magnitude of the difference between means  
Small = 0.2 to 0.5 (regular font, no shading)  
Moderate = 0.5 to 0.8 (**bold** [Truman positive] or **bold italic** [Truman negative])  
Large = Greater than 0.8 (**bold** [Truman positive] or **bold italic** [Truman negative])Emphasis on Developing Academic,  
Scholarly, and Intellectual Qualities

	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	225	6.40	0.74	2538	5.41	1.20	<b>0.99</b>	<b>0.83</b>	1798	5.97	1.02	<b>0.43</b>	0.42	2544	5.50	1.18	<b>0.90</b>	<b>0.76</b>
Male	71	6.21	0.74	869	5.29	1.21	<b>0.92</b>	<b>0.76</b>	640	5.82	1.02	0.39		1135	5.33	1.22	<b>0.88</b>	<b>0.72</b>
Female	154	6.49	0.73	1667	5.48	1.19	<b>1.01</b>	<b>0.85</b>	1158	6.05	1.02	<b>0.44</b>	0.43	1404	5.64	1.14	<b>0.85</b>	<b>0.75</b>
Diff F-M		0.28			0.19					0.23					0.31			
Spring 1998	92	6.02	0.95	1230	5.48	1.16	<b>0.54</b>	0.47	538	6.03	1.05	-0.01		595	5.47	1.23	<b>0.55</b>	0.45
Male	22	5.64	1.14	451	5.31	1.21	0.33		298	5.92	1.14	-0.28		255	5.24	1.18	0.40	
Female	70	6.14	0.86	779	5.58	1.12	<b>0.56</b>	<b>0.50</b>	238	6.17	0.91	-0.03		339	5.66	1.22	<b>0.48</b>	0.39
Diff F-M		0.50			0.27					0.25					0.42			
Spring 1999	493	6.06	0.99	3068	5.39	1.16	<b>0.67</b>	<b>0.58</b>	323	6.07	0.89	-0.01		256	5.65	1.22	<b>0.41</b>	0.34
Male	97	5.70	1.27	1041	5.36	1.16	0.34		124	5.96	0.88	-0.26		111	5.65	1.23	0.05	
Female	393	6.14	0.88	2003	5.41	1.15	<b>0.73</b>	<b>0.63</b>	196	6.13	0.89	0.01		144	5.65	1.21	<b>0.49</b>	0.40
Diff F-M		0.44			0.05					0.17					0.00			
Spring 2000	187	6.12	0.90	3364	5.34	1.18	<b>0.78</b>	<b>0.66</b>	30	5.67	1.32	0.45		706	5.57	1.19	<b>0.55</b>	0.46
Male	50	5.80	0.99	1117	5.30	1.21	<b>0.50</b>	0.41	8	5.75	1.04	0.05		308	5.44	1.19	0.36	
Female	136	6.25	0.84	2204	5.36	1.16	<b>0.89</b>	<b>0.77</b>	22	5.64	1.43	0.61		364	5.68	1.18	<b>0.57</b>	0.48
Diff F-M		0.45			0.06					-0.11					0.24			

Emphasis on Developing Aesthetic,  
Expressive, and Creative Qualities

	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	224	5.30	1.06	2539	4.88	1.28	<b>0.42</b>	0.33	1794	5.24	1.23	0.06		2542	5.02	1.30	<b>0.28</b>	0.22
Male	71	5.35	1.04	871	4.89	1.32	<b>0.46</b>	0.35	637	5.18	1.15	0.17		1133	4.93	1.29	0.42	
Female	153	5.28	1.07	1666	4.88	1.26	<b>0.40</b>	0.32	1157	5.28	1.27	0.00		1404	5.10	1.30	0.18	
Diff F-M		-0.07			-0.01					0.10					0.17			
Spring 1998	92	5.00	1.20	1230	4.87	1.22	0.13		537	5.20	1.36	-0.20		595	4.88	1.27	0.12	
Male	22	4.45	1.50	451	4.80	1.29	-0.35		297	5.00	1.49	-0.55		255	4.76	1.26	-0.31	
Female	70	5.17	1.04	779	4.90	1.19	0.27		238	5.46	1.13	-0.29		339	4.98	1.25	0.19	
Diff F-M		0.72			0.10					0.46					0.22			
Spring 1999	493	5.09	1.19	3061	4.86	1.30	<b>0.23</b>	0.18	323	5.54	1.15	<b>-0.45</b>	-0.39	256	5.27	1.25	-0.18	
Male	97	4.97	1.29	1035	4.84	1.31	0.13		124	5.52	1.22	<b>-0.55</b>	-0.45	111	5.15	1.34	-0.18	
Female	393	5.10	1.17	2002	4.87	1.30	<b>0.23</b>	0.18	196	5.55	1.12	<b>-0.45</b>	-0.40	144	5.36	1.17	-0.26	
Diff F-M		0.13								0.03					0.21			
Spring 2000	186	5.15	1.24	3366	4.86	1.26	<b>0.29</b>	0.23	30	5.00	1.55	0.15		704	4.95	1.37	0.20	
Male	50	4.90	1.36	1116	4.87	1.32	0.03		8	5.00	1.77	-0.10		306	4.85	1.36	0.05	
Female	135	5.24	1.19	2207	4.87	1.23	<b>0.37</b>	0.30	22	5.00	1.51	0.24		364	5.06	1.38	0.18	
Diff F-M		0.34			0.00					0.00					0.21			

Environment

Emphasis on Being Critical,  
Evaluative, and Analytical

	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	225	5.69	0.94	2532	5.05	1.22	0.64	0.52	1795	5.60	1.10	0.09		2545	5.13	1.25	0.56	0.45
Male	71	5.70	0.98	867	5.06	1.22	0.64	0.52	638	5.52	1.13	0.18		1135	5.06	1.23	0.64	0.52
Female	154	5.69	0.92	1663	5.04	1.22	0.65	0.53	1157	5.64	1.09	0.05		1405	5.18	1.25	0.51	0.41
Diff F-M		-0.01			-0.02					0.12					0.12			
Spring 1998	92	5.52	1.10	1228	5.07	1.16	0.45	0.39	538	5.64	1.20	-0.12		595	5.10	1.23	0.42	0.34
Male	22	5.32	1.21	450	5.02	1.23	0.30		298	5.52	1.25	-0.20		255	4.94	1.24	0.38	
Female	70	5.59	1.07	778	5.10	1.12	0.49	0.44	238	5.81	1.11	-0.22		339	5.23	1.20	0.36	
Diff F-M		0.27			0.08					0.29					0.29			
Spring 1999	493	5.62	1.11	3065	5.05	1.21	0.57	0.47	323	5.65	1.06	-0.03		257	5.33	1.33	0.29	0.22
Male	97	5.24	1.35	1039	5.04	1.25	0.20		124	5.65	1.10	-0.41		112	5.45	1.24	-0.21	
Female	393	5.71	1.02	2002	5.05	1.19	0.66	0.55	196	5.65	1.05	0.06		144	5.23	1.39	0.48	0.35
Diff F-M		0.47			0.01					0.00					-0.22			
Spring 2000	185	5.64	1.06	3357	5.01	1.20	0.63	0.53	30	5.30	1.37	0.34		703	5.14	1.22	0.50	0.41
Male	50	5.42	1.14	1115	5.05	1.23	0.37		8	5.25	1.04	0.17		306	5.01	1.22	0.41	
Female	134	5.73	1.02	2199	4.99	1.19	0.74	0.62	22	5.32	1.49	0.41		363	5.26	1.23	0.47	0.38
Diff F-M		0.31			-0.06					0.07					0.25			

Environmental Emphasis:  
Diversity

	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*	
Spring 1998	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*	
Spring 1999	493	4.63	1.42	3064	4.90	1.45	-0.27	-0.19	323	5.33	1.33	-0.70	-0.53	255	5.32	1.49	-0.69	-0.46
Male	97	4.57	1.50	1040	4.79	1.46	-0.22		124	5.19	1.40	-0.62	-0.44	111	5.23	1.65	-0.66	-0.40
Female	393	4.64	1.40	2001	4.95	1.44	-0.31	-0.22	196	5.42	1.29	-0.78	-0.60	143	5.41	1.35	-0.77	-0.57
Diff F-M		0.07			0.16					0.23					0.18			
Spring 2000	186	4.66	1.47	3363	4.99	1.40	-0.33	-0.24	30	5.73	1.76	-1.07	-0.61	702	4.98	1.47	-0.32	
Male	50	4.44	1.39	1118	4.87	1.42	-0.43		8	5.25	2.31	-0.81		306	4.73	1.44	-0.29	
Female	135	4.73	1.50	2203	5.06	1.38	-0.33		22	5.91	1.54	-1.18	-0.77	362	5.22	1.45	-0.49	-0.34
Diff F-M		0.29			0.19					0.66					0.49			

Environmental Emphasis:  
Information Literacy Skills

	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*	
Spring 1998	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*	
Spring 1999	492	5.11	1.34	3061	5.31	1.28	-0.20	-0.16	323	5.32	1.21	-0.21		255	5.29	1.27	-0.18	
Male	97	5.00	1.49	1036	5.32	1.30	-0.32	-0.25	124	5.19	1.20	-0.19		111	5.28	1.33	-0.28	-0.21
Female	392	5.13	1.31	2001	5.31	1.27	-0.18		196	5.42	1.21	-0.29		143	5.29	1.24	-0.16	
Diff F-M		0.13			-0.01					0.23					0.01			
Spring 2000	186	5.11	1.19	3358	5.30	1.27	-0.19		30	4.97	1.30	0.14		702	5.47	1.26	-0.36	-0.29
Male	50	4.60	1.36	1116	5.34	1.27	-0.74		8	5.00	0.93	-0.40		306	5.44	1.27	-0.84	
Female	135	5.30	1.07	2199	5.29	1.26	0.01	0.01	22	4.95	1.43	0.35		362	5.51	1.25	-0.21	
Diff F-M		0.70			-0.05					-0.05					0.07			



Environment

Emphasis on Developing Vocational and Occupational Competence	Truman			Comprehensive College & Univ			TRU-CCU			Selective Liberal Arts Colleges			TRU-SLA			General Liberal Arts Colleges			TRU-GLA		
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff				
Fall 1997	225	4.92	1.25	2540	4.79	1.32	0.13		1797	4.71	1.40	0.21		2543	4.86	1.34	0.06				
Male	71	5.01	1.25	869	4.77	1.35	0.24		639	4.68	1.39	0.33		1132	4.84	1.34	0.17				
Female	154	4.88	1.25	1669	4.79	1.30	0.09		1158	4.73	1.41	0.15		1406	4.89	1.34	-0.01				
Diff F-M		-0.13			0.02					0.05					0.05						
Spring 1998	92	4.41	1.40	1227	4.82	1.27	-0.41		535	4.13	1.58	0.28		593	4.82	1.38	-0.41				
Male	22	3.95	1.62	451	4.74	1.27	-0.79		297	4.37	1.55	-0.42		254	4.72	1.36	-0.77				
Female	70	4.56	1.30	776	4.86	1.26	-0.30		236	3.83	1.56	0.73	0.47	338	4.90	1.38	-0.34				
Diff F-M		0.61			0.12					-0.54					0.18						
Spring 1999	492	4.48	1.46	3066	4.84	1.37	-0.36	-0.26	323	4.95	1.35	-0.47	-0.35	256	4.93	1.47	-0.45	-0.31			
Male	97	4.32	1.54	1041	4.85	1.37	-0.53	-0.39	124	4.81	1.42	-0.49		111	4.93	1.52	-0.61	-0.40			
Female	392	4.51	1.44	2001	4.83	1.37	-0.32	-0.23	196	5.04	1.31	-0.53	-0.40	144	4.93	1.45	-0.42	-0.29			
Diff F-M		0.19			-0.02					0.23					0.00						
Spring 2000	186	4.30	1.42	3359	4.83	1.36	-0.53	-0.39	30	4.60	1.54	-0.30		701	4.99	1.38	-0.69	-0.50			
Male	50	3.96	1.62	1117	4.85	1.40	-0.89	-0.64	8	4.88	1.25	-0.92		305	4.99	1.38	-1.03	-0.75			
Female	135	4.43	1.32	2199	4.84	1.34	-0.41	-0.31	22	4.50	1.65	-0.07		362	5.02	1.37	-0.59	-0.43			
Diff F-M		0.47			-0.01					-0.38					0.03						
Emphasis on Personal Relevance and Practical Value of Courses	Truman			Comprehensive College & Univ			TRU-CCU			Selective Liberal Arts Colleges			TRU-SLA			General Liberal Arts Colleges			TRU-GLA		
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size			
Fall 1997	225	5.04	1.20	2539	4.90	1.36	0.14		1793	4.99	1.30	0.05		2545	5.11	1.28	-0.07				
Male	71	5.03	1.22	868	4.83	1.41	0.20		639	4.95	1.30	0.08		1134	4.99	1.30	0.04				
Female	154	5.05	1.20	1669	4.94	1.33	0.11		1154	5.02	1.30	0.03		1406	5.21	1.27	-0.16				
Diff F-M		0.02			0.11					0.07					0.22						
Spring 1998	92	4.52	1.36	1230	4.96	1.28	-0.44	-0.34	537	4.86	1.42	-0.34		594	4.94	1.40	-0.42				
Male	22	3.95	1.46	451	4.90	1.30	-0.95	-0.73	298	4.83	1.43	-0.88	-0.62	255	4.74	1.40	-0.79				
Female	70	4.70	1.29	779	4.99	1.27	-0.29		237	4.89	1.41	-0.19		339	5.09	1.39	-0.39				
Diff F-M		0.75			0.09					0.06					0.35						
Spring 1999	493	4.61	1.41	3063	4.86	1.37	-0.25	-0.18	323	5.25	1.30	-0.64	-0.49	254	5.12	1.41	-0.51	-0.36			
Male	97	4.54	1.39	1038	4.87	1.37	-0.33	-0.24	124	5.19	1.25	-0.65	-0.52	110	5.16	1.46	-0.62				
Female	393	4.62	1.41	2001	4.84	1.37	-0.22	-0.16	196	5.30	1.32	-0.68	-0.52	143	5.07	1.38	-0.45	-0.33			
Diff F-M		0.08			-0.03					0.11					-0.09						
Spring 2000	186	4.34	1.43	3361	4.87	1.40	-0.53	-0.38	30	5.03	1.45	-0.69		702	5.06	1.39	-0.72	-0.52			
Male	50	4.08	1.61	1116	4.85	1.43	-0.77	-0.54	8	5.00	1.51	-0.92		306	4.95	1.41	-0.87	-0.62			
Female	135	4.44	1.36	2202	4.89	1.38	-0.45	-0.33	22	5.05	1.46	-0.61		362	5.16	1.39	-0.72	-0.52			
Diff F-M		0.36			0.04					0.05					0.21						

Scale: Friendly, Supportive, Sense of belonging = 7 to Competitive, Uninvolved, Sense of alienation = 1

Relationships with other students	Truman			Comprehensive College & Univ			TRU-CCU			Selective Liberal Arts Colleges			TRU-SLA			General Liberal Arts Colleges			TRU-GLA		
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size			
Fall 1997	225	5.83	1.05	2539	5.37	1.44	0.46	0.32	1798	5.66	1.31	0.17		2549	5.65	1.30	0.18				
Male	71	5.68	1.13	867	5.22	1.44	0.46		642	5.57	1.29	0.11		1137	5.48	1.35	0.20				
Female	154	5.90	1.01	1669	5.44	1.43	0.46	0.32	1156	5.71	1.32	0.19		1407	5.79	1.25	0.11				
Diff F-M		0.22			0.22					0.14					0.31						
Spring 1998	92	5.65	1.36	1232	5.51	1.36	0.14		537	5.67	1.30	-0.02		592	5.54	1.35	0.11				
Male	22	4.91	1.72	452	5.37	1.40	-0.46		300	5.54	1.33	-0.63		253	5.46	1.36	-0.55				
Female	70	5.89	1.15	780	5.60	1.32	0.29		235	5.84	1.24	0.05		338	5.60	1.33	0.29				
Diff F-M		0.98			0.23					0.30					0.14						
Spring 1999	492	5.85	1.14	3068	5.73	1.27	0.12		323	5.90	1.13	-0.05		257	5.89	1.25	-0.04				
Male	96	5.75	1.20	1040	5.62	1.33	0.13		124	5.85	1.22	-0.10		112	5.80	1.17	-0.05				
Female	393	5.87	1.12	2004	5.79	1.23	0.08		196	5.92	1.07	-0.05		144	5.95	1.30	-0.08				
Diff F-M		0.12			0.17					0.07					0.15						
Spring 2000	187	5.87	1.21	3367	5.62	1.32	0.25		29	5.59	1.27	0.28		703	5.89	1.19	-0.02				
Male	50	5.86	1.05	1114	5.55	1.34	0.31		8	5.00	1.41	0.86		306	5.84	1.19	0.02				
Female	136	5.87	1.28	2210	5.67	1.31	0.20		21	5.81	1.17	0.06		363	5.92	1.21	-0.05				
Diff F-M		0.01			0.12					0.81					0.08						

Scale: Helpful, Considerate, Flexible = 7 to Rigid, Impersonal, Bound by Regulations = 1

Relationships with administrative personnel and offices	Truman				Comprehensive College & Univ				TRU-CCU		Selective Liberal Arts Colleges				TRU-SLA		General Liberal Arts Colleges				TRU-GLA	
	N	Mean	SD		N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size			
Fall 1997	225	5.05	1.27		2538	4.57	1.59	0.48	0.30	1795	4.63	1.50	0.42	0.28	2544	4.80	1.48	1.48	0.25			
Male	71	5.00	1.26		866	4.55	1.58	0.45		640	4.44	1.54	0.56	0.36	1136	4.60	1.56	1.56	0.40			
Female	154	5.07	1.27		1669	4.58	1.60	0.49	0.31	1155	4.74	1.47	0.33		1403	4.96	1.40	1.40	0.11			
Diff F-M		0.07				0.03					0.30					0.36						
Spring 1998	92	4.62	1.55		1231	4.76	1.50	-0.14		534	4.68	1.58	-0.06		592	4.90	1.52	1.52	-0.28			
Male	22	4.00	1.9		452	4.73	1.53	-0.73		298	4.62	1.65	-0.62		253	4.66	1.56	1.56	-0.66			
Female	70	4.81	1.38		779	4.78	1.48	0.03		234	4.75	1.47	0.06		338	5.09	1.45	1.45	-0.28			
Diff F-M		0.81				0.05					0.13					0.43						
Spring 1999	493	4.97	1.34		3068	4.86	1.42	0.11		323	5.18	1.31	-0.21		256	5.34	1.45	1.45	-0.37	-0.26		
Male	97	4.80	1.29		1040	4.88	1.41	-0.08		124	5.19	1.25	-0.39		111	5.19	1.47	1.47	-0.39			
Female	393	5.01	1.36		2004	4.85	1.42	0.16		196	5.19	1.32	-0.18		144	5.44	1.42	1.42	-0.43	-0.30		
Diff F-M		0.21				-0.03					0.00					0.25						
Spring 2000	187	5.01	1.52		3365	4.81	1.47	0.20		30	4.70	1.49	0.31		703	5.21	1.38	1.38	-0.20			
Male	50	4.92	1.58		1114	4.79	1.48	0.13		8	4.63	1.30	0.29		306	5.02	1.39	1.39	-0.10			
Female	136	5.03	1.50		2208	4.81	1.47	0.22		22	4.73	1.58	0.30		363	5.34	1.37	1.37	-0.31			
Diff F-M		0.11				0.02					0.10					0.32						

Scale: Approachable, Helpful, Understanding, Encouraging = 7 to Remote, Discouraging, Unsympathetic = 1

Relationships with faculty members	Truman			Comprehensive College & Univ			TRU-CCU			Selective Liberal Arts Colleges			TRU-SLA			General Liberal Arts Colleges			TRU-GLA		
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size			
Fall 1997	225	5.57	1.11	2539	5.09	1.45	0.48	0.33	1797	5.56	1.20	0.01		2543	5.43	1.27	0.14				
Male	71	5.41	1.13	867	4.97	1.45	0.44		641	5.43	1.23	-0.02		1134	5.22	1.37	0.19				
Female	154	5.65	1.10	1669	5.14	1.44	0.51	0.35	1156	5.62	1.17	0.03		1404	5.60	1.15	0.05				
Diff F-M		0.24			0.17					0.19					0.38						
Spring 1998	92	5.47	1.10	1232	5.21	1.36	0.26		538	5.63	1.18	-0.16		591	5.43	1.36	0.04				
Male	22	4.95	1.50	452	5.15	1.42	-0.20		300	5.55	1.23	-0.60		252	5.29	1.44	-0.34				
Female	70	5.63	0.90	780	5.24	1.32	0.39		236	5.73	1.10	-0.10		338	5.54	1.26	0.09				
Diff F-M		0.68			0.09					0.18					0.25						
Spring 1999	493	5.40	1.17	3069	5.12	1.38	0.28	0.20	323	5.62	1.15	-0.22		256	5.59	1.37	-0.19				
Male	97	5.35	1.15	1041	5.11	1.37	0.24		124	5.56	1.15	-0.21		111	5.29	1.49	0.06				
Female	393	5.42	1.18	2004	5.12	1.38	0.30	0.22	196	5.65	1.16	-0.23		144	5.82	1.22	-0.40	-0.33			
Diff F-M		0.07			0.01					0.09					0.53						
Spring 2000	187	5.39	1.22	3365	5.06	1.38	0.33	0.24	30	5.43	1.28	-0.04		704	5.45	1.30	-0.06				
Male	50	5.42	1.30	1116	5.07	1.35	0.35		8	5.50	1.20	-0.08		306	5.32	1.34	0.10				
Female	136	5.38	1.20	2206	5.05	1.39	0.33		22	5.41	1.33	-0.03		364	5.59	1.25	-0.21				
Diff F-M		-0.04			-0.02					-0.09					0.27						

## College Student Experience Questionnaire

## Freshman Estimate of Gains Scale Scores by Year (Fall 1997, Spring 1998, Spring 1999, Spring 2000), Gender, and Institutional Type

Scale: Very Much = 4, Quite a Bit = 3, Some = 2, Very Little = 1

Third Edition (1997 & 1998)  
Fourth Edition (1999, 2000)**Bold** = Significant Differences (Scheffe Post Hoc at .05 level), Truman Mean Greater than Comparison Group  
**Bold Italic** = Significant Differences (Scheffe Post Hoc at .05 level), Truman Mean Less than Comparison Group  
**Bold** = Significant Differences (Truman Means differ by 0.3 or more per 1997 CSEQ manual)Effect Size = Indicator of "practical significance" of the magnitude of the difference between means  
Small = 0.2 to 0.5 (regular font, no shading)  
Moderate = 0.5 to 0.8 (**bold** [Truman positive] or **bold italic** [Truman negative])  
Large = Greater than 0.8 (**bold** [Truman positive] or **bold italic** [Truman negative])Vocational training, acquiring knowledge & skills  
applicable to a specific job or type of work

	Truman				Comprehensive College & Univ				TRU-CCU		Selective Liberal Arts Colleges				TRU-SLA		General Liberal Arts Colleges				TRU-GLA	
	N	Mean	SD		N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size	
Fall 1997	225	1.70	0.79		2520	2.10	0.86	<b>-0.40</b>	-0.47		1791	2.06	0.82	<b>-0.36</b>	-0.44		2531	2.25	0.86	<b>-0.55</b>	<b>-0.64</b>	
Male	71	1.79	0.86		861	2.16	0.84	<b>-0.37</b>	-0.44		641	2.13	0.79	<b>-0.34</b>	-0.43		1129	2.23	0.86	<b>-0.44</b>	<b>-0.51</b>	
Female	154	1.66	0.75		1657	2.06	0.87	<b>-0.40</b>	-0.46		1150	2.02	0.84	<b>-0.36</b>	-0.43		1397	2.26	0.86	<b>-0.60</b>	<b>-0.70</b>	
Diff F-M		-0.13				-0.10						-0.11						0.03				
Spring 1998	92	1.83	0.69		1230	2.09	0.81	<b>-0.26</b>	-0.32		536	1.91	0.80	-0.08			592	2.26	0.84	<b>-0.43</b>	<b>-0.51</b>	
Male	22	1.50	0.6		449	2.16	0.83	<b>-0.66</b>	-0.80		299	2.00	0.80	-0.50			253	2.31	0.84	<b>-0.81</b>	<b>-0.96</b>	
Female	70	1.93	0.69		781	2.04	0.80	-0.11			235	1.80	0.78	0.13			338	2.23	0.84	<b>-0.30</b>	-0.36	
Diff F-M		<b>0.43</b>				-0.12						-0.20						-0.08				
Spring 1999	495	2.18	0.85		3083	2.43	0.86	<b>-0.25</b>	-0.29		323	2.42	0.76	<b>-0.24</b>	-0.32		253	2.58	0.86	<b>-0.40</b>	-0.47	
Male	98	2.30	0.90		1053	2.50	0.85	-0.20			124	2.56	0.77	-0.26			110	2.54	0.86	-0.24		
Female	394	2.15	0.84		2006	2.38	0.87	<b>-0.23</b>	-0.26		196	2.34	0.75	-0.19			142	2.61	0.86	<b>-0.46</b>	<b>-0.53</b>	
Diff F-M		-0.15				-0.12						-0.22						0.07				
Spring 2000	187	2.07	0.84		3357	2.38	0.85	<b>-0.31</b>	-0.36		30	2.40	0.86	-0.33			705	2.58	0.87	<b>-0.51</b>	<b>-0.59</b>	
Male	50	2.16	0.77		1113	2.45	0.84	-0.29			8	2.50	0.53	-0.34			305	2.62	0.81	<b>-0.46</b>	<b>-0.57</b>	
Female	136	2.03	0.86		2200	2.34	0.85	<b>-0.31</b>	-0.36		22	2.36	0.95	-0.33			365	2.55	0.92	<b>-0.52</b>	<b>-0.57</b>	
Diff F-M		-0.13				-0.11						-0.14						-0.07				

Acquiring background & specialization for further  
education in professional, scientific, or scholarly field

	Truman				Comprehensive College & Univ				TRU-CCU		Selective Liberal Arts Colleges				TRU-SLA		General Liberal Arts Colleges				TRU-GLA	
	N	Mean	SD		N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size	
Fall 1997	225	2.10	0.83		2513	2.29	0.85	<b>-0.19</b>	-0.22		1789	2.47	0.85	<b>-0.37</b>	-0.44		2533	2.40	0.82	<b>-0.30</b>	-0.37	
Male	71	2.13	0.83		857	2.28	0.83	-0.15			640	2.45	0.81	<b>-0.32</b>	-0.40		1130	2.35	0.80	-0.22		
Female	154	2.08	0.84		1653	2.29	0.86	<b>-0.21</b>	-0.24		1149	2.48	0.88	<b>-0.40</b>	-0.45		1398	2.44	0.83	<b>-0.36</b>	-0.43	
Diff F-M		-0.05				0.01						0.03						0.09				
Spring 1998	92	2.29	0.82		1230	2.33	0.82	-0.04			536	2.60	0.88	<b>-0.31</b>	-0.35		592	2.35	0.83	-0.06		
Male	22	2.05	0.72		449	2.34	0.82	-0.29			299	2.58	0.88	<b>-0.53</b>	<b>-0.60</b>		253	2.38	0.84	-0.33		
Female	70	2.37	0.84		781	2.32	0.82	0.05			235	2.63	0.89	-0.26			338	2.33	0.82	0.04		
Diff F-M		<b>0.32</b>				-0.02						0.05						-0.05				
Spring 1999	494	2.46	0.83		3080	2.47	0.83	-0.01			323	2.44	0.76	0.02			253	2.56	0.84	-0.10		
Male	98	2.49	0.74		1052	2.50	0.80	-0.01			124	2.60	0.73	-0.11			110	2.55	0.85	-0.06		
Female	393	2.45	0.85		2004	2.45	0.85	0.00			196	2.34	0.76	0.11			142	2.56	0.82	-0.11		
Diff F-M		-0.04				-0.05						-0.26						0.01				
Spring 2000	187	2.38	0.84		3353	2.38	0.83	0.00			30	2.67	0.84	-0.29			705	2.50	0.84	-0.12		
Male	50	2.44	0.84		1109	2.43	0.82	0.01			8	2.63	0.74	-0.19			305	2.53	0.82	-0.09		
Female	136	2.36	0.84		2200	2.36	0.83	0.00			22	2.68	0.89	-0.32			365	2.46	0.89	-0.10		
Diff F-M		-0.08				-0.07						0.05						-0.07				

Estimate of Gains

Gaining a broad general education about different fields of knowledge

	Truman			Comprehensive College & Univ			TRU-CCU			Selective Liberal Arts Colleges			TRU-SLA			General Liberal Arts Colleges			TRU-GLA		
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size	
Fall 1997	225	2.62	0.88	2516	2.55	0.80	0.07			1786	2.89	0.79	-0.27	-0.34		2530	2.66	0.81	-0.04		
Male	71	2.48	0.83	858	2.52	0.80	-0.04			639	2.79	0.78	-0.31	-0.40		1129	2.58	0.80	-0.10		
Female	154	2.68	0.91	1655	2.57	0.81	0.11			1147	2.95	0.78	-0.27	-0.35		1396	2.72	0.80	-0.04		
Diff F-M		0.20			0.05						0.16						0.14				
Spring 1998	92	2.72	0.72	1231	2.65	0.81	0.07			537	2.99	0.78	-0.27	-0.35		591	2.63	0.80	0.09		
Male	22	2.45	0.67	449	2.61	0.81	-0.16			300	2.97	0.78	-0.52	-0.67		252	2.58	0.79	-0.13		
Female	70	2.80	0.71	782	2.68	0.81	0.12			235	3.02	0.78	-0.22			338	2.67	0.80	0.13		
Diff F-M		0.35			0.07						0.05						0.09				
Spring 1999	495	2.89	0.79	3072	2.74	0.78	0.15	0.19		323	2.92	0.74	-0.03			253	2.77	0.78	0.12		
Male	98	2.86	0.81	1047	2.68	0.78	0.18			124	3.01	0.70	-0.15			110	2.74	0.79	0.12		
Female	394	2.91	0.78	2001	2.76	0.78	0.15	0.19		196	2.86	0.77	0.05			142	2.80	0.78	0.11		
Diff F-M		0.05			0.08						-0.15						0.06				
Spring 2000	186	2.91	0.71	3345	2.70	0.79	0.21	0.27		30	2.70	0.84	0.21			703	2.71	0.81	0.20	0.25	
Male	50	2.76	0.72	1109	2.69	0.76	0.07			8	3.13	0.64	-0.37			303	2.67	0.82	0.09		
Female	135	2.96	0.71	2192	2.70	0.80	0.26	0.33		22	2.55	0.86	0.41			365	2.74	0.81	0.22		
Diff F-M		0.20			0.01						-0.58						0.07				

Gaining a range of information that may be relevant to a career

	Truman			Comprehensive College & Univ			TRU-CCU			Selective Liberal Arts Colleges			TRU-SLA			General Liberal Arts Colleges			TRU-GLA		
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size	
Fall 1997	225	2.33	0.83	2520	2.55	0.83	-0.22	-0.27		1786	2.68	0.80	-0.35	-0.44		2525	2.67	0.82	-0.34	-0.41	
Male	71	2.25	0.73	858	2.51	0.82	-0.26			638	2.62	0.80	-0.37	-0.46		1129	2.58	0.83	-0.33	-0.40	
Female	154	2.36	0.87	1659	2.57	0.83	-0.21	-0.25		1148	2.71	0.81	-0.35	-0.43		1391	2.74	0.80	-0.38	-0.48	
Diff F-M		0.11			0.06						0.09						0.16				
Spring 1998	92	2.50	0.72	1227	2.56	0.79	-0.06			537	2.61	0.83	-0.11			592	2.68	0.87	-0.18		
Male	22	2.23	0.43	448	2.55	0.81	-0.32			300	2.60	0.81	-0.37			253	2.64	0.87	-0.41		
Female	70	2.59	0.77	779	2.56	0.78	0.03			235	2.64	0.84	-0.05			338	2.72	0.86	-0.13		
Diff F-M		0.36			0.01						0.04						0.08				
Spring 1999	494	2.51	0.85	3067	2.70	0.82	-0.19	-0.23		323	2.75	0.77	-0.24	-0.31		251	2.86	0.76	-0.35	-0.46	
Male	98	2.56	0.86	1048	2.69	0.81	-0.13			124	2.81	0.73	-0.25			109	2.89	0.79	-0.33		
Female	393	2.50	0.85	1997	2.70	0.83	-0.20	-0.24		196	2.70	0.80	-0.20			141	2.83	0.75	-0.33	-0.44	
Diff F-M		-0.06			0.01						-0.11						-0.06				
Spring 2000	186	2.49	0.88	3344	2.59	0.85	-0.10			30	2.73	0.94	-0.24			702	2.81	0.83	-0.32	-0.39	
Male	50	2.44	0.79	1109	2.62	0.86	-0.18			8.00	2.88	0.83	-0.44			304	2.76	0.80	-0.32		
Female	135	2.50	0.91	2193	2.58	0.85	-0.08			22.00	2.68	0.99	-0.18			363	2.85	0.86	-0.35	-0.41	
Diff F-M		0.06			-0.04						-0.20						0.09				

Developing an understanding and enjoyment of art, music, and drama

	Truman			Comprehensive College & Univ			TRU-CCU			Selective Liberal Arts Colleges			TRU-SLA			General Liberal Arts Colleges			TRU-GLA		
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size	
Fall 1997	225	2.03	0.95	2515	1.98	0.98	0.05			1782	2.33	1.01	-0.30	-0.30		2523	2.03	1.01	0.00		
Male	71	1.90	0.8	857	1.95	0.93	-0.05			637	2.17	0.97	-0.27			1126	1.93	0.98	-0.03		
Female	154	2.08	1.01	1656	2.00	1.00	0.08			1145	2.41	1.03	-0.33	-0.32		1392	2.12	1.03	-0.04		
Diff F-M		0.18			0.05						0.24						0.19				
Spring 1998	92	2.36	0.92	1227	1.97	0.94	0.39	0.41		537	2.28	0.97	0.08			591	2.07	0.98	0.29		
Male	22	2.14	0.94	447	2.06	0.98	0.08			300	2.11	0.95	0.03			252	2.02	0.94	0.12		
Female	70	2.43	0.91	780	1.92	0.91	0.51	0.56		235	2.50	0.96	-0.07			338	2.12	1.00	0.31		
Diff F-M		0.29			-0.14						0.39						0.10				
Spring 1999	493	2.38	0.97	3071	2.12	0.97	0.26	0.27		323	2.33	1.00	0.05			253	2.27	0.97	0.11		
Male	98	2.30	0.97	1049	2.04	0.94	0.26			124	2.19	0.98	0.11			110	2.28	0.93	0.02		
Female	393	2.41	0.97	1998	2.16	0.99	0.25	0.25		196	2.44	1.00	-0.03			142	2.26	1.00	0.15		
Diff F-M		0.11			0.12						0.25						-0.02				
Spring 2000	186	2.46	0.91	3350	2.20	0.99	0.26	0.26		30	1.97	0.89	0.49			703	2.12	1.05	0.34	0.32	
Male	50	2.26	0.88	1110	2.13	0.97	0.13			8	2.00	0.93	0.26			305	1.98	1.02	0.28		
Female	135	2.53	0.92	2196	2.23	0.99	0.30	0.30		22	1.95	0.90	0.58			363	2.22	1.07	0.31	0.29	
Diff F-M		0.27			0.10						-0.05						0.24				

Estimate of Gains

Broadening your acquaintance and enjoyment of literature

	Truman			Comprehensive College & Univ			TRU-CCU			Selective Liberal Arts Colleges			TRU-SLA			General Liberal Arts Colleges			TRU-GLA		
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size	
Fall 1997	222	1.99	0.88	2510	2.02	0.87	-0.03			1783	2.35	0.89	-0.36	-0.40		2526	2.09	0.89	-0.10		
Male	69	1.93	0.83	856	2.00	0.85	-0.07			637	2.20	0.85	-0.27			1128	1.97	0.86	-0.04		
Female	153	2.02	0.90	1651	2.02	0.88	0.00			1146	2.43	0.90	-0.41	-0.46		1393	2.18	0.91	-0.16		
Diff F-M		0.09			0.02						0.23						0.21				
Spring 1998	92	2.11	0.86	1227	2.07	0.88	0.04			537	2.40	0.93	-0.29	-0.31		590	2.13	0.86	-0.02		
Male	22	2.00	0.76	449	2.10	0.88	-0.10			300	2.30	0.89	-0.30			253	2.05	0.85	-0.05		
Female	70	2.14	0.89	778	2.05	0.88	0.09			235	2.53	0.97	-0.39	-0.40		336	2.19	0.87	-0.05		
Diff F-M		0.14			-0.05						0.23						0.14				
Spring 1999	495	2.26	0.91	3068	2.14	0.89	0.12	0.13		323	2.33	0.86	-0.07			253	2.32	0.92	-0.06		
Male	98	2.29	0.87	1044	2.06	0.86	0.23			124	2.27	0.91	0.02			110	2.33	0.88	-0.04		
Female	394	2.26	0.92	2000	2.17	0.89	0.09			196	2.37	0.83	-0.11			142	2.32	0.95	-0.06		
Diff F-M		-0.03			0.11						0.10						-0.01				
Spring 2000	187	2.19	0.91	3348	2.16	0.88	0.03			30	2.23	1.04	-0.04			704	2.15	0.93	0.04		
Male	50	2.20	0.88	1108	2.14	0.87	0.06			8	2.63	0.92	-0.43			305	2.00	0.90	0.20		
Female	136	2.19	0.92	2196	2.17	0.89	0.02			22	2.09	1.06	0.10			364	2.24	0.94	-0.05		
Diff F-M		-0.01			0.03						-0.54						0.24				

Seeing the importance of history for understanding the present and the past

	Truman			Comprehensive College & Univ			TRU-CCU			Selective Liberal Arts Colleges			TRU-SLA			General Liberal Arts Colleges			TRU-GLA		
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size	
Fall 1997	225	2.01	0.91	2514	2.30	0.91	-0.29	-0.32		1780	2.43	0.89	-0.42	-0.47		2526	2.35	0.91	-0.34	-0.37	
Male	71	1.93	0.88	857	2.35	0.88	-0.42	-0.48		636	2.43	0.87	-0.50	-0.57		1127	2.35	0.88	-0.42	-0.48	
Female	154	2.05	0.93	1654	2.28	0.92	-0.23	-0.25		1144	2.42	0.90	-0.37	-0.41		1394	2.35	0.94	-0.30	-0.32	
Diff F-M		0.12			-0.07						-0.01						0.00				
Spring 1998	90	2.22	0.86	1228	2.33	0.90	-0.11			536	2.57	0.95	-0.35	-0.37		591	2.37	0.88	-0.15		
Male	21	1.95	0.86	449	2.48	0.88	-0.53			299.00	2.59	0.93	-0.64	-0.69		253	2.36	0.85	-0.41		
Female	69	2.30	0.85	779	2.25	0.91	0.05			235.00	2.56	0.98	-0.26			337	2.39	0.90	-0.09		
Diff F-M		0.35			-0.23						-0.03						0.03				
Spring 1999	494	2.15	0.92	3076	2.24	0.91	-0.09			323	2.26	0.81	-0.11			253	2.27	0.98	-0.12		
Male	98	2.32	0.98	1050	2.30	0.91	0.02			124	2.38	0.80	-0.06			110	2.30	0.94	0.02		
Female	393	2.11	0.90	2002	2.20	0.91	-0.09			196	2.18	0.79	-0.07			142	2.25	1.00	-0.14		
Diff F-M		-0.21			-0.10						-0.20						-0.05				
Spring 2000	187	2.18	0.93	3349	2.27	0.91	-0.09			30	2.53	1.04	-0.35			703	2.29	0.94	-0.11		
Male	50	2.42	1.03	1108	2.38	0.89	0.04			8	2.50	0.93	-0.08			305	2.27	0.90	0.15		
Female	136	2.09	0.88	2197	2.22	0.91	-0.13			22	2.55	1.10	-0.46			364	2.31	0.98	-0.22		
Diff F-M		-0.33			-0.16						0.05						0.04				

Gaining knowledge about other parts of the world and other people

	Truman			Comprehensive College & Univ			TRU-CCU			Selective Liberal Arts Colleges			TRU-SLA			General Liberal Arts Colleges			TRU-GLA		
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size	
Fall 1997	224	1.94	0.97	2511	2.10	0.95	-0.16			1780	2.25	0.94	-0.31	-0.33		2523	2.05	0.93	-0.11		
Male	71	2.10	0.99	856	2.16	0.93	-0.06			635	2.25	0.92	-0.15			1124	2.08	0.95	0.02		
Female	153	1.86	0.96	1652	2.07	0.96	-0.21			1145	2.26	0.95	-0.40	-0.42		1394	2.03	0.92	-0.17		
Diff F-M		-0.24			-0.09						0.01						-0.05				
Spring 1998	91	1.99	0.81	1227	1.97	0.90	0.02			536	2.54	0.96	-0.55	-0.57		590	2.14	0.89	-0.15		
Male	22	1.95	0.95	448	2.12	0.93	-0.17			299	2.38	0.94	-0.43			252	2.19	0.84	-0.24		
Female	69	2.00	0.77	779	1.89	0.87	0.11			235	2.74	0.94	-0.74	-0.79		337	2.09	0.93	-0.09		
Diff F-M		0.05			-0.23						0.36						-0.10				
Spring 1999	493	2.06	0.95	3071	2.11	0.91	-0.05			323	2.06	0.84	0.00			252	2.27	0.96	-0.21		
Male	98	2.26	0.97	1047	2.18	0.89	0.08			124	2.06	0.81	0.20			109	2.34	0.90	-0.08		
Female	392	2.02	0.94	2000	2.08	0.91	-0.06			196	2.05	0.85	-0.03			142	2.23	1.00	-0.21		
Diff F-M		-0.24			-0.10						-0.01						-0.11				
Spring 2000	187	2.15	0.92	3344	2.11	0.92	0.04			29	2.34	0.94	-0.19			703	2.12	0.93	0.03		
Male	50	2.22	0.95	1109	2.21	0.90	0.01			7	2.43	1.13	-0.21			304	2.14	0.92	0.08		
Female	136	2.13	0.91	2191	2.06	0.93	0.07			22	2.32	0.89	-0.19			364	2.08	0.92	0.05		
Diff F-M		-0.09			-0.15						-0.11						-0.06				

Estimate of Gains

Writing clearly and effectively

	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	225	2.30	0.86	2515	2.63	0.82	-0.33	-0.40	1785	2.75	0.84	-0.45	-0.54	2528	2.66	0.83	-0.36	-0.43
Male	71	2.24	0.85	856	2.54	0.81	-0.30	-0.37	639	2.65	0.79	-0.41	-0.52	1129	2.53	0.81	-0.29	-0.36
Female	154	2.33	0.87	1657	2.67	0.82	-0.34	-0.41	1146	2.80	0.86	-0.47	-0.55	1394	2.77	0.83	-0.44	-0.53
Diff F-M		0.09			0.13					0.15					0.24			
Spring 1998	92	2.66	0.80	1229	2.57	0.83	0.09		536	2.72	0.89	-0.06		591	2.68	0.83	-0.02	
Male	22	2.41	0.73	449	2.53	0.83	-0.12		300	2.77	0.88	-0.36		252	2.60	0.84	-0.19	
Female	70	2.74	0.81	780	2.59	0.84	0.15		234	2.67	0.90	0.07		338	2.75	0.82	-0.01	
Diff F-M		0.33			0.06					-0.10					0.15			
Spring 1999	494	2.71	0.85	3063	2.75	0.83	-0.04		322	2.91	0.72	-0.20	-0.28	251	2.81	0.80	-0.10	
Male	98	2.60	0.85	1045	2.70	0.83	-0.10		124	2.95	0.74	-0.35	-0.47	109	2.66	0.89	-0.06	
Female	393	2.74	0.84	1994	2.77	0.84	-0.03		195	2.88	0.71	-0.14		141	2.91	0.70	-0.17	
Diff F-M		0.14			0.07					-0.07					0.25			
Spring 2000	187	2.71	0.85	3342	2.78	0.82	-0.07		30	2.80	0.81	-0.09		702	2.91	0.81	-0.20	-0.25
Male	50	2.60	0.88	1104	2.74	0.81	-0.14		8	2.38	0.52	0.22		304	2.87	0.77	-0.27	
Female	136	2.74	0.83	2194	2.80	0.82	-0.06		22	2.95	0.84	-0.21		364	2.95	0.85	-0.21	
Diff F-M		0.14			0.06					0.57					0.08			

Speaking effectively

	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Spring 1998	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Spring 1999	493	2.66	0.84	3067	2.59	0.83	0.07		323	2.74	0.76	-0.08		252	2.73	0.84	-0.07	
Male	98	2.63	0.84	1046	2.58	0.82	0.05		124	2.76	0.75	-0.13		110	2.60	0.86	0.03	
Female	392	2.67	0.84	1997	2.59	0.84	0.08		196	2.72	0.75	-0.05		141	2.82	0.82	-0.15	
Diff F-M		0.04			0.01					-0.04					0.22			
Spring 2000	187	2.55	0.87	3349	2.58	0.85	-0.03		30	2.63	0.81	-0.08		700	2.76	0.86	-0.21	-0.24
Male	50	2.44	0.91	1110	2.55	0.83	-0.11		8.00	2.63	0.52	-0.19		302	2.67	0.84	-0.23	
Female	136	2.58	0.87	2195	2.59	0.87	-0.01		22.00	2.64	0.90	-0.06		363	2.83	0.89	-0.25	-0.28
Diff F-M		0.14			0.04					0.01					0.16			

Acquiring familiarity with the use of computers

	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	225	2.53	0.82	2492	2.53	0.95	0.00		1780	2.71	0.87	-0.18	-0.21	2517	2.63	0.91	-0.10	
Male	71	2.44	0.82	849	2.51	0.93	-0.07		639	2.62	0.86	-0.18		1122	2.59	0.92	-0.15	
Female	154	2.57	0.82	1642	2.54	0.95	0.03		1141	2.76	0.87	-0.19		1390	2.65	0.90	-0.08	
Diff F-M		0.13			0.03					0.14					0.06			
Spring 1998	92	2.59	0.89	1218	2.58	0.91	0.01		533	2.61	0.94	-0.02		588	2.71	0.90	-0.12	
Male	22	2.36	1.00	444	2.49	0.90	-0.13		297	2.60	0.91	-0.24		253	2.66	0.90	-0.30	
Female	70	2.66	0.85	774	2.63	0.90	0.03		234	2.62	0.99	0.04		334	2.76	0.89	-0.10	
Diff F-M		0.30			0.14					0.02					0.10			
Spring 1999	493	2.83	0.89	3068	2.94	0.89	-0.11		322	2.91	0.86	-0.08		252	2.92	0.86	-0.09	
Male	97	2.79	0.80	1048	2.93	0.88	-0.14		124	2.85	0.87	-0.06		109	2.83	0.92	-0.04	
Female	393	2.84	0.90	1996	2.94	0.89	-0.10		195	2.94	0.87	-0.10		142	2.98	0.81	-0.14	
Diff F-M		0.05			0.01					0.09					0.15			
Spring 2000	187	2.81	0.89	3347	2.82	0.91	-0.01		30	2.53	0.78	0.28		703	3.05	0.87	-0.24	-0.28
Male	50	2.64	0.88	1107	2.86	0.91	-0.22		8	2.63	0.74	0.01		305	3.06	0.85	-0.42	-0.49
Female	136	2.88	0.89	2196	2.80	0.91	0.08		22	2.50	0.80	0.38		363	3.04	0.90	-0.16	
Diff F-M		0.24			-0.06					-0.13					-0.02			

Estimate of Gains

Becoming aware of different philosophies, cultures, and ways of life

	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	221	2.33	0.90	2488	2.39	0.90	-0.06		1770	2.65	0.86	-0.32	-0.37	2503	2.46	0.91	-0.13	
Male	69	2.28	0.86	843	2.37	0.87	-0.09		629	2.56	0.84	-0.28		1112	2.37	0.89	-0.09	
Female	152	2.36	0.92	1643	2.40	0.91	-0.04		1141	2.70	0.87	-0.34	-0.39	1386	2.54	0.91	-0.18	
Diff F-M		0.08			0.03					0.14					0.17			
Spring 1998	91	2.35	0.81	1215	2.47	0.87	-0.12		537	2.85	0.87	-0.50	-0.57	584	2.43	0.87	-0.08	
Male	21	2.14	0.79	447	2.49	0.86	-0.35		300	2.69	0.86	-0.55	-0.64	251	2.36	0.84	-0.22	
Female	70	2.41	0.81	768	2.45	0.88	-0.04		235	3.04	0.84	-0.63	-0.75	332	2.48	0.89	-0.07	
Diff F-M		0.27			-0.04					0.35					0.12			
Spring 1999	494	2.49	0.92	3076	2.51	0.87	-0.02		323	2.61	0.84	-0.12		253	2.60	0.88	-0.11	
Male	97	2.46	0.97	1049	2.51	0.85	-0.05		124	2.60	0.87	-0.14		110	2.51	0.84	-0.05	
Female	394	2.50	0.90	2003	2.51	0.88	-0.01		196	2.59	0.81	-0.09		142	2.69	0.90	-0.19	
Diff F-M		0.04			0.00					-0.01					0.18			
Spring 2000	187	2.47	0.85	3348	2.47	0.87	0.00		30	2.97	0.93	-0.50	-0.54	702	2.51	0.94	-0.04	
Male	50	2.46	0.84	1108	2.47	0.85	-0.01		8	3.25	0.89	-0.79		305	2.46	0.92	0.00	
Female	136	2.47	0.86	2196	2.48	0.88	-0.01		22	2.86	0.94	-0.39		362	2.54	0.95	-0.07	
Diff F-M		0.01			0.01					-0.39					0.08			

Developing your own values and ethical standards

	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	225	2.35	0.82	2508	2.55	0.92	-0.20	-0.22	1787	2.72	0.85	-0.37	-0.44	2527	2.63	0.89	-0.28	-0.31
Male	71	2.25	0.82	854	2.42	0.91	-0.17		640	2.59	0.84	-0.34	-0.40	1127	2.49	0.89	-0.24	
Female	154	2.40	0.81	1651	2.62	0.91	-0.22	-0.24	1147	2.79	0.85	-0.39	-0.46	1395	2.75	0.87	-0.35	-0.40
Diff F-M		0.15			0.20					0.20					0.26			
Spring 1998	92	2.50	0.85	1227	2.55	0.88	-0.05		536	2.79	0.93	-0.29	-0.31	591	2.59	0.89	-0.09	
Male	22	2.14	0.89	448	2.49	0.89	-0.35		299	2.65	0.94	-0.51		252	2.49	0.86	-0.35	
Female	70	2.61	0.80	779	2.58	0.87	0.03		235	2.97	0.88	-0.36	-0.41	338	2.66	0.90	-0.05	
Diff F-M		0.47			0.09					0.32					0.17			
Spring 1999	494	2.74	0.92	3071	2.74	0.90	0.00		323	2.85	0.84	-0.11		253	2.78	0.86	-0.04	
Male	98	2.55	0.94	1047	2.65	0.90	-0.10		124	2.79	0.86	-0.24		110	2.61	0.88	-0.06	
Female	393	2.79	0.90	2000	2.78	0.90	0.01		196	2.87	0.83	-0.08		142	2.91	0.82	-0.12	
Diff F-M		0.24			0.13					0.08					0.30			
Spring 2000	187	2.86	0.92	3343	2.69	0.90	0.17		30	2.83	0.99	0.03		700	2.80	0.93	0.06	
Male	50	2.74	0.83	1106	2.60	0.89	0.14		8	2.88	0.99	-0.14		303	2.70	0.92	0.04	
Female	136	2.90	0.95	2193	2.73	0.90	0.17		22	2.82	1.01	0.08		362	2.88	0.95	0.02	
Diff F-M		0.16			0.13					-0.06					0.18			

Understanding yourself--your abilities, interests, and personality

	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	225	2.56	0.87	2510	2.77	0.89	-0.21	-0.24	1784	2.87	0.88	-0.31	-0.35	2525	2.85	0.87	-0.29	-0.33
Male	71	2.39	0.85	854	2.59	0.89	-0.20		640	2.71	0.85	-0.32	-0.38	1125	2.68	0.89	-0.29	
Female	154	2.64	0.87	1653	2.86	0.88	-0.22	-0.25	1144	2.96	0.88	-0.32	-0.36	1395	2.99	0.83	-0.35	-0.42
Diff F-M		0.25			0.27					0.25					0.31			
Spring 1998	92	2.70	0.91	1227	2.75	0.86	-0.05		537	2.94	0.87	-0.24		592	2.77	0.91	-0.07	
Male	22	2.18	0.85	448	2.63	0.84	-0.45		300	2.80	0.90	-0.62	-0.69	253	2.62	0.91	-0.44	
Female	70	2.86	0.87	779	2.82	0.86	0.04		235	3.11	0.81	-0.25		338	2.89	0.89	-0.03	
Diff F-M		0.68			0.19					0.31					0.27			
Spring 1999	495	2.92	0.82	3069	3.00	0.84	-0.08		323	3.04	0.73	-0.12		250	3.04	0.79	-0.12	
Male	98	2.67	0.89	1047	2.91	0.83	-0.24		124	3.02	0.69	-0.35	-0.51	108	2.84	0.82	-0.17	
Female	394	2.98	0.79	1998	3.04	0.84	-0.06		196	3.06	0.76	-0.08		141	3.18	0.74	-0.20	
Diff F-M		0.31			0.13					0.04					0.34			
Spring 2000	187	2.97	0.82	3345	2.96	0.83	0.01		30	2.83	0.79	0.14		702	3.09	0.84	-0.12	
Male	50	2.74	0.78	1110	2.85	0.82	-0.11		8	3.00	0.53	-0.26		305	3.04	0.85	-0.30	
Female	136	3.05	0.83	2191	3.01	0.83	0.04		22	2.77	0.87	0.28		362	3.13	0.84	-0.08	
Diff F-M		0.31			0.16					-0.23					0.09			

Estimate of Gains

Understanding other people and the ability to get along with different kinds of people

	Truman			Comprehensive College & Univ			TRU-CCU			Selective Liberal Arts Colleges			TRU-SLA			General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size
Fall 1997	225	2.64	0.80	2511	2.80	0.85	-0.16	-0.19		1779	2.91	0.78	-0.27	-0.35		2524	2.86	0.81	-0.22	-0.27
Male	71	2.45	0.81	852	2.63	0.85	-0.18			637	2.73	0.74	-0.28	-0.38		1125	2.70	0.82	-0.25	
Female	154	2.72	0.79	1656	2.88	0.84	-0.16			1142	3.00	0.79	-0.28	-0.35		1394	3.00	0.78	-0.28	-0.36
Diff F-M		0.27			0.25						0.27						0.30			
Spring 1998	92	2.75	0.79	1229	2.76	0.82	-0.01			536	2.88	0.84	-0.13			589	2.83	0.84	-0.08	
Male	22	2.27	0.77	450	2.61	0.82	-0.34			299	2.77	0.86	-0.50			251.00	2.69	0.82	-0.42	
Female	70	2.90	0.75	779	2.84	0.81	0.06			235	3.03	0.80	-0.13			337.00	2.93	0.83	-0.03	
Diff F-M		0.63			0.23						0.26						0.24			
Spring 1999	495	2.92	0.84	3066	3.04	0.82	-0.12	-0.15		323	3.06	0.80	-0.14			250	3.13	0.82	-0.21	-0.26
Male	98	2.63	0.92	1046	2.89	0.86	-0.26			124	3.02	0.81	-0.39			108.00	2.94	0.81	-0.31	
Female	394	2.99	0.80	1996	3.12	0.79	-0.13	-0.16		196	3.08	0.80	-0.09			141.00	3.26	0.80	-0.27	-0.34
Diff F-M		0.36			0.23						0.06						0.32			
Spring 2000	187	3.01	0.81	3343	2.96	0.83	0.05			30	2.93	0.83	0.08			701	3.16	0.81	-0.15	
Male	50	2.82	0.77	1108	2.79	0.85	0.03			8	2.88	0.83	-0.06			304.00	3.12	0.81	-0.30	
Female	136	3.07	0.81	2191	3.05	0.80	0.02			22	2.95	0.84	0.12			362.00	3.19	0.82	-0.12	
Diff F-M		0.25			0.26						0.07						0.07			

Ability to function as a team member

	Truman			Comprehensive College & Univ			TRU-CCU			Selective Liberal Arts Colleges			TRU-SLA			General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size
Fall 1997	225	2.38	0.89	2514	2.55	0.88	-0.17	-0.19		1784	2.64	0.84	-0.26	-0.31		2525	2.69	0.89	-0.31	-0.35
Male	71	2.37	0.97	856	2.49	0.85	-0.12			639	2.60	0.82	-0.23			1125	2.65	0.88	-0.28	
Female	154	2.38	0.86	1656	2.58	0.90	-0.20			1145	2.67	0.85	-0.29	-0.34		1395	2.72	0.89	-0.34	-0.38
Diff F-M		0.01			0.09						0.07						0.07			
Spring 1998	92	2.51	0.81	1229	2.56	0.87	-0.05			535	2.47	0.88	0.04			590	2.72	0.87	-0.21	
Male	22	2.36	0.95	450	2.50	0.85	-0.14			298	2.44	0.88	-0.08			252	2.67	0.83	-0.31	
Female	70	2.56	0.75	779	2.59	0.87	-0.03			235	2.50	0.87	0.06			337	2.76	0.89	-0.20	
Diff F-M		0.20			0.09						0.06						0.09			
Spring 1999	495	2.67	0.88	3063	2.75	0.91	-0.08			322	2.86	0.84	-0.19	-0.23		249	2.92	0.83	-0.25	-0.30
Male	98	2.52	0.89	1045	2.70	0.89	-0.18	-0.20		124	2.85	0.80	-0.33	-0.41		107	2.84	0.83	-0.32	
Female	394	2.70	0.87	1994	2.77	0.92	-0.07			195	2.87	0.88	-0.17			141	2.98	0.84	-0.28	-0.33
Diff F-M		0.18			0.07						0.02						0.14			
Spring 2000	187	2.65	0.92	3337	2.71	0.91	-0.06			29	2.79	0.77	-0.14			702	3.01	0.89	-0.36	-0.40
Male	50	2.74	0.85	1107	2.63	0.89	0.11			8	2.75	0.71	-0.01			305	3.00	0.88	-0.26	
Female	136	2.61	0.94	2186	2.76	0.91	-0.15			21	2.81	0.81	-0.20			362	3.01	0.92	-0.40	-0.43
Diff F-M		-0.13			0.13						0.06						0.01			

Developing good health habits and physical fitness

	Truman			Comprehensive College & Univ			TRU-CCU			Selective Liberal Arts Colleges			TRU-SLA			General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size
Fall 1997	222	2.15	0.97	2464	2.29	0.98	-0.14			1760	2.34	0.95	-0.19			2485	2.42	0.94	-0.27	-0.29
Male	70	1.97	0.96	833	2.25	0.97	-0.28			632	2.34	0.93	-0.37	-0.40		1112	2.45	0.93	-0.48	-0.52
Female	152	2.24	0.96	1630	2.31	0.98	-0.07			1128	2.33	0.96	-0.09			1369	2.40	0.94	-0.16	
Diff F-M		0.27			0.06						-0.01						-0.05			
Spring 1998	90	2.26	0.95	530	2.14	0.99	0.12			575	2.46	0.92	-0.20			2404	2.31	0.94	-0.05	
Male	21	1.67	0.80	440	2.33	0.93	-0.66	-0.71		297	2.17	0.99	-0.50			248	2.44	0.90	-0.77	-0.86
Female	69	2.43	0.93	769	2.32	0.91	0.11			231	2.10	1.00	0.33			326	2.48	0.93	-0.05	
Diff F-M		0.76			-0.01						-0.07						0.04			
Spring 1999	495	2.53	0.98	3066	2.56	1.00	-0.03			323	2.69	0.94	-0.16			250	2.69	1.00	-0.16	
Male	98	2.47	0.95	1045	2.54	1.00	-0.07			124	2.76	0.91	-0.29			108	2.78	0.95	-0.31	
Female	394	2.55	0.98	1997	2.57	0.99	-0.02			196	2.64	0.96	-0.09			141	2.62	1.03	-0.07	
Diff F-M		0.08			0.03						-0.12						-0.16			
Spring 2000	187	2.67	0.96	3338	2.60	0.99	0.07			30	2.03	0.96	0.64	0.67		702	2.69	1.00	-0.02	
Male	50	2.64	1.01	1107	2.57	0.99	0.07			8	2.25	1.04	0.39			304	2.71	1.02	-0.07	
Female	136	2.68	0.96	2188	2.62	0.99	0.06			22	1.95	0.95	0.73	0.77		363	2.65	1.00	0.03	
Diff F-M		0.04			0.05						-0.30						-0.06			



Estimate of Gains

Understanding the nature of science and experimentation

	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	225	1.84	0.91	2510	1.94	0.92	-0.10		1783	2.01	0.95	-0.17		2524	1.94	0.91	-0.10	
Male	71	1.68	0.75	856	2.04	0.90	-0.36	-0.40	638	2.08	0.94	-0.40	-0.43	1126	1.98	0.90	-0.30	
Female	154	1.92	0.96	1653	1.89	0.93	0.03		1145	1.96	0.95	-0.04		1393	1.90	0.93	0.02	
Diff F-M		0.24			-0.15					-0.12					-0.08			
Spring 1998	92	2.17	0.82	1229	2.02	0.90	0.15		536	2.05	0.97	0.12		591	2.04	0.94	0.13	
Male	22	2.09	0.92	450	2.10	0.88	-0.01		299	2.11	0.93	-0.02		253	2.11	0.93	-0.02	
Female	70	2.20	0.79	779	1.98	0.91	0.22		235	1.97	1.01	0.23		337	1.98	0.94	0.22	
Diff F-M		0.11			-0.12					-0.14					-0.13			
Spring 1999	495	2.35	0.95	3062	2.17	0.94	0.18	0.19	323	2.14	0.91	0.21	0.23	251	2.33	1.01	0.02	
Male	98	2.37	0.92	1045	2.27	0.92	0.10		124	2.35	0.95	0.02		109	2.59	0.95	-0.22	
Female	394	2.34	0.96	1993	2.12	0.94	0.22	0.23	196	2.02	0.87	0.32	0.37	141	2.11	1.01	0.23	
Diff F-M		-0.03			-0.15					-0.33					-0.48			
Spring 2000	187	2.26	0.98	3339	2.13	0.93	0.13		30	1.93	0.94	0.33		703	2.20	0.95	0.06	
Male	50	2.26	0.85	1106	2.27	0.90	-0.01		8	2.25	0.71	0.01		305	2.24	0.90	0.02	
Female	136	2.26	1.03	2189	2.06	0.93	0.20		22	1.82	1.01	0.44		363	2.14	0.99	0.12	
Diff F-M		0.00			-0.21					-0.43					-0.10			

Understanding new scientific and technical developments

	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	224	1.60	0.83	2515	1.85	0.88	-0.25	-0.28	1783	1.87	0.90	-0.27	-0.30	2523	1.87	0.89	-0.27	-0.30
Male	71	1.70	0.83	857	2.09	0.86	-0.39	-0.45	638	2.07	0.86	-0.37	-0.43	1125	2.12	0.9	-0.42	-0.47
Female	154	1.59	0.76	1655	1.87	0.89	-0.28		1142	1.91	0.89	-0.32	-0.36	1393	1.92	0.92	-0.33	
Diff F-M		-0.11			-0.22					-0.16					-0.20			
Spring 1998	92	1.86	0.70	1231	1.93	0.88	-0.07		536	1.96	0.96	-0.10		591	1.96	0.93	-0.10	
Male	22	1.68	0.57	450	2.14	0.87	-0.46		298	2.18	0.90	-0.50		253	2.15	0.89	-0.47	
Female	70	1.89	0.65	778	1.88	0.84	0.01		235	1.97	0.93	-0.08		337	2.01	0.90	-0.12	
Diff F-M		0.21			-0.26					-0.21					-0.14			
Spring 1999	495	2.23	0.93	3059	2.19	0.93	0.04		323	2.13	0.93	0.10		250	2.28	0.98	-0.05	
Male	98	2.45	0.91	1044	2.34	0.91	0.11		124	2.40	0.95	0.05		109	2.56	0.88	-0.11	
Female	394	2.17	0.93	1991	2.11	0.93	0.06		196	1.97	0.88	0.20		140	2.05	0.99	0.12	
Diff F-M		-0.28			-0.23					-0.43					-0.51			
Spring 2000	187	2.14	0.95	3332	2.14	0.93	0.00		30	1.80	0.89	0.34		701	2.28	0.96	-0.14	
Male	50	2.28	0.86	1104	2.35	0.91	-0.07		8	2.25	0.71	0.03		304	2.40	0.93	-0.12	
Female	136	2.09	0.98	2185	2.03	0.92	0.06		22	1.64	0.90	0.45		362	2.16	0.98	-0.07	
Diff F-M		-0.19			-0.32					-0.61					-0.24			

Becoming aware if the consequences of applications in science and technology

	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	225	1.63	0.79	2513	1.95	0.88	-0.32	-0.36	1780	1.97	0.88	-0.34	-0.39	2523	2.01	0.91	-0.38	-0.42
Male	71	1.62	0.83	859	2.01	0.88	-0.39	-0.44	638	1.99	0.89	-0.37	-0.42	1124	1.98	0.89	-0.36	-0.40
Female	153	1.59	0.82	1655	1.77	0.86	-0.18	-0.21	1145	1.80	0.90	-0.21	-0.23	1394	1.78	0.88	-0.19	-0.22
Diff F-M		-0.03			-0.24					-0.19					-0.20			
Spring 1998	92	1.84	0.63	1228	1.97	0.86	-0.13		535	2.09	0.92	-0.25		591	2.07	0.90	-0.23	
Male	22	1.82	0.80	450	2.06	0.86	-0.24		299	2.04	0.92	-0.22		253	2.11	0.94	-0.29	
Female	70	1.87	0.68	781	1.85	0.88	0.02		235	1.84	0.99	0.03		337	1.85	0.91	0.02	
Diff F-M		0.05			-0.21					-0.20					-0.26			
Spring 1999	493	2.14	0.91	3064	2.22	0.92	-0.08		322	2.18	0.88	-0.04		251	2.37	0.96	-0.23	
Male	98	2.33	0.85	1044	2.36	0.90	-0.03		124	2.31	0.85	0.02		109	2.54	0.84	-0.21	
Female	392	2.09	0.91	1996	2.15	0.93	-0.06		195	2.09	0.89	0.00		141	2.23	1.02	-0.14	
Diff F-M		-0.24			-0.21					-0.22					-0.31			
Spring 2000	187	2.18	0.94	3334	2.18	0.94	0.00		29	2.00	0.93	0.18		702	2.38	0.95	-0.20	
Male	50	2.32	1.00	1103	2.37	0.92	-0.05		8	2.00	0.76	0.32		304	2.50	0.92	-0.18	
Female	136	2.12	0.91	2188	2.08	0.93	0.04		21	2.00	1.00	0.12		363	2.25	0.96	-0.13	
Diff F-M		-0.20			-0.29					0.00					-0.25			

Estimate of Gains

Ability to think analytically and logically

	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	225	2.30	0.83	2512	2.49	0.82	-0.19	-0.23	1785	2.67	0.80	-0.37	-0.46	2522	2.58	0.81	-0.28	-0.35
Male	71	2.18	0.83	856	2.51	0.82	-0.33	-0.40	637	2.67	0.81	-0.49	-0.60	1125	2.56	0.83	-0.38	-0.46
Female	154	2.36	0.82	1654	2.47	0.83	-0.11		1148	2.67	0.80	-0.31	-0.39	1393	2.59	0.80	-0.23	-0.29
Diff F-M		0.18			-0.04					0.00					0.03			
Spring 1998	92	2.49	0.72	1227	2.45	0.80	0.04		535	2.72	0.85	-0.23		590	2.55	0.85	-0.06	
Male	22	2.36	0.66	450	2.54	0.80	-0.18		298	2.71	0.82	-0.35		252	2.54	0.86	-0.18	
Female	70	2.53	0.74	777	2.40	0.79	0.13		235	2.72	0.88	-0.19		337	2.57	0.84	-0.04	
Diff F-M		0.17			-0.14					0.01					0.03			
Spring 1999	491	2.71	0.85	3051	2.68	0.84	0.03		323	2.81	0.74	-0.10		250	2.76	0.84	-0.05	
Male	97	2.65	0.87	1038	2.74	0.82	-0.09		124	2.95	0.71	-0.30		109	2.72	0.83	-0.07	
Female	391	2.73	0.85	1989	2.65	0.85	0.08		196	2.72	0.75	0.01		140	2.79	0.85	-0.06	
Diff F-M		0.08			-0.09					-0.23					0.07			
Spring 2000	186	2.76	0.84	3321	2.63	0.86	0.13		30	2.60	0.81	0.16		696	2.75	0.83	0.01	
Male	49	2.76	0.92	1101	2.70	0.84	0.06		8	2.88	0.64	-0.12		302	2.83	0.80	-0.07	
Female	136	2.76	0.81	2177	2.60	0.87	0.16		22	2.50	0.86	0.26		359	2.67	0.87	0.09	
Diff F-M		0.00			-0.10					-0.38					-0.16			

Quantitative thinking--Understanding probabilities, proportions, etc.

	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	219	2.04	0.91	2453	2.18	0.85	-0.14		1771	2.19	0.88	-0.15		2485	2.21	0.87	-0.17	
Male	69	2.03	0.94	839	2.26	0.85	-0.23		632	2.29	0.85	-0.26		1111	2.24	0.87	-0.21	
Female	150	2.04	0.90	1611	2.14	0.85	-0.10		1139	2.13	0.89	-0.09		1370	2.18	0.86	-0.14	
Diff F-M		0.01			-0.12					-0.16					-0.06			
Spring 1998	92	2.08	0.73	1211	2.23	0.85	-0.15		529	2.26	0.96	-0.18		585	2.26	0.90	-0.18	
Male	22	1.77	0.75	443	2.32	0.85	-0.55	-0.65	296	2.38	0.93	-0.61	-0.66	251	2.36	0.89	-0.59	-0.66
Female	70	2.17	0.70	768	2.19	0.85	-0.02		231	2.11	0.98	0.06		333	2.19	0.89	-0.02	
Diff F-M		0.40			-0.13					-0.27					-0.17			
Spring 1999	489	2.28	0.91	3063	2.32	0.91	-0.04		323	2.26	0.92	0.02		248	2.39	0.98	-0.11	
Male	94	2.36	0.80	1043	2.39	0.88	-0.03		124	2.48	0.96	-0.12		106	2.58	0.95	-0.22	
Female	392	2.26	0.93	1996	2.28	0.92	-0.02		196	2.13	0.88	0.13		141	2.24	0.97	0.02	
Diff F-M		-0.10			-0.11					-0.35					-0.34			
Spring 2000	187	2.35	0.90	3333	2.31	0.93	0.04		30	2.10	0.96	0.25		699	2.44	0.93	-0.09	
Male	50	2.42	0.86	1102	2.43	0.9	-0.01		8	2.25	0.71	0.17		303	2.54	0.92	-0.12	
Female	136	2.32	0.92	2187	2.24	0.94	0.08		22	2.05	1.05	0.27		361	2.32	0.94	0.00	
Diff F-M		-0.10			-0.19					-0.20					-0.22			

Ability to put ideas together, to see relationships, similarities, and differences between ideas

	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	224	2.29	0.78	2511	2.56	0.83	-0.27	-0.33	1779	2.74	0.80	-0.45	-0.56	2526	2.62	0.82	-0.33	-0.40
Male	71	2.17	0.86	855	2.51	0.84	-0.34	-0.40	634	2.65	0.79	-0.48	-0.61	1127	2.53	0.83	-0.36	-0.43
Female	153	2.34	0.74	1654	2.58	0.82	-0.24	-0.29	1145	2.80	0.79	-0.46	-0.58	1394	2.69	0.80	-0.35	-0.44
Diff F-M		0.17			0.07					0.15					0.16			
Spring 1998	91	2.45	0.79	1230	2.54	0.80	-0.09		536	2.83	0.81	-0.38	-0.47	590	2.55	0.80	-0.10	
Male	22	2.32	0.84	450	2.50	0.83	-0.18		299	2.76	0.80	-0.44		252	2.56	0.81	-0.24	
Female	69	2.49	0.78	780	2.56	0.78	-0.07		235	2.92	0.81	-0.43	-0.53	337	2.56	0.78	-0.07	
Diff F-M		0.17			0.06					0.16					0.00			
Spring 1999	493	2.72	0.84	3058	2.71	0.81	0.01		323	2.83	0.75	-0.11		250	2.82	0.83	-0.10	
Male	98	2.68	0.81	1044	2.67	0.78	0.01		124	2.81	0.73	-0.13		108	2.81	0.85	-0.13	
Female	392	2.73	0.85	1990	2.73	0.83	0.00		196	2.83	0.77	-0.10		141	2.82	0.81	-0.09	
Diff F-M		0.05			0.06					0.02					0.01			
Spring 2000	186	2.69	0.85	3331	2.69	0.84	0.00		30	2.60	0.93	0.09		701	2.77	0.84	-0.08	
Male	50	2.58	0.86	1102	2.66	0.83	-0.08		8	2.63	0.52	-0.05		303	2.75	0.83	-0.17	
Female	135	2.73	0.85	2187	2.71	0.84	0.02		22	2.59	1.05	0.14		363	2.78	0.85	-0.05	
Diff F-M		0.15			0.05					-0.04					0.03			

Estimate of Gains

Ability to learn on your own, pursue ideas, and find information you need

	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	225	2.55	0.77	2512	2.72	0.84	-0.17	-0.20	1778	2.84	0.81	-0.29	-0.36	2524	2.76	0.82	-0.21	-0.26
Male	71	2.39	0.82	858	2.60	0.83	-0.21		635	2.69	0.80	-0.30	-0.38	1125	2.63	0.84	-0.24	
Female	154	2.62	0.73	1652	2.78	0.84	-0.16		1143	2.92	0.81	-0.30	-0.37	1394	2.87	0.78	-0.25	-0.32
Diff F-M		0.23			0.18					0.23					0.24			
Spring 1998	91	2.78	0.81	1230	2.67	0.81	0.11		535	2.83	0.86	-0.05		591	2.72	0.83	0.06	
Male	22	2.59	0.96	450	2.59	0.81	0.00		299	2.80	0.87	-0.21		253	2.60	0.88	-0.01	
Female	69	2.84	0.76	780	2.72	0.80	0.12		234	2.87	0.85	-0.03		337	2.81	0.77	0.03	
Diff F-M		0.25			0.13					0.07					0.21			
Spring 1999	494	2.89	0.83	3064	2.90	0.82	-0.01		323	3.01	0.73	-0.12		250	2.92	0.86	-0.03	
Male	97	2.70	0.83	1045	2.84	0.81	-0.14		124	2.90	0.76	-0.20		108	2.81	0.87	-0.11	
Female	394	2.93	0.82	1995	2.93	0.83	0.00		196	3.07	0.71	-0.14		141	2.99	0.85	-0.06	
Diff F-M		0.23			0.09					0.17					0.18			
Spring 2000	186	2.69	0.85	3331	2.69	0.84	0.00		30	2.60	0.93	0.09		701	2.77	0.84	-0.08	
Male	50	2.86	0.95	1104	2.76	0.84	0.10		8	3.13	0.35	-0.27		305	2.85	0.84	0.01	
Female	135	3.07	0.75	2184	2.89	0.85	0.18		22	2.77	1.07	0.30		362	2.93	0.84	0.14	
Diff F-M		0.21			0.13					-0.36					0.08			

Gain: Adapting to Change

	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Spring 1998	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Spring 1999	495	2.92	0.89	3062	2.97	0.86	-0.05		323	3.13	0.78	-0.21	-0.27	250	3.00	0.86	-0.08	
Male	98	2.61	0.92	1043	2.85	0.84	-0.24		124	3.04	0.76	-0.43	-0.57	108	2.86	0.86	-0.25	
Female	394	3.01	0.86	1995	3.04	0.86	-0.03		196	3.18	0.80	-0.17		141	3.09	0.85	-0.08	
Diff F-M		0.40			0.19					0.14					0.23			
Spring 2000	186	3.00	0.82	3332	2.84	0.85	0.16		30	2.87	0.94	0.13		701	2.89	0.84	0.11	
Male	50	2.80	0.93	1105	2.81	0.88	-0.01		8	2.50	0.76	0.30		305	2.95	0.84	-0.15	
Female	136	2.99	0.87	2186	2.91	0.88	0.08		22	2.86	0.77	0.13		361	3.03	0.90	-0.04	
Diff F-M		0.19			0.10					0.36					0.08			

## College Student Experience Questionnaire

## Freshman Reading and Writing Question Scores by Year (Fall 1997, Spring 1998, Spring 1999, Spring 2000), Gender, and Institutional Type

Scale: None = 1, Fewer than 5 = 2, Between 5 and 10 = 3, Between 10 and 20 = 4, More than 20 = 5

Third Edition (1997 & 1998)  
Fourth Edition (1999, 2000)**Bold** = Significant Differences (Scheffe Post Hoc at .05 level), Truman Mean Greater than Comparison Group  
**Bold Italic** = Significant Differences (Scheffe Post Hoc at .05 level), Truman Mean Less than Comparison Group  
**Bold** = Significant Differences (Truman Means differ by 0.2 or more per 1997 CSEQ manual)Effect Size = Indicator of "practical significance" of the magnitude of the difference between means  
Small = 0.2 to 0.5 (regular font, no shading)  
Moderate = 0.5 to 0.8 (**bold** [Truman positive] or **bold italic** [Truman negative])  
Large = Greater than 0.8 (**bold** [Truman positive] or **bold italic** [Truman negative])Number of textbooks/  
assigned books read

	Truman				Comprehensive College & Univ				TRU-CCU		Selective Liberal Arts Colleges				TRU-SLA		General Liberal Arts Colleges				TRU-GLA	
	N	Mean	SD		N	Mean	SD		Mean Diff	Effect Size	N	Mean	SD		Mean Diff	Effect Size	N	Mean	SD		Mean Diff	Effect Size
Fall 1997	223	2.73	0.77		2500	3.07	0.94		<b>-0.34</b>	-0.36	1777	3.57	0.90		<b>-0.84</b>	<b>-0.93</b>	2497	3.24	1.03		<b>-0.51</b>	<b>-0.50</b>
Male	69	2.64	0.87		848	2.86	0.88		<b>-0.22</b>		630	3.34	0.93		<b>-0.70</b>	<b>-0.75</b>	1110	3.07	1.03		<b>-0.43</b>	<b>-0.42</b>
Female	154	2.77	0.72		1649	3.18	0.94		<b>-0.41</b>	-0.44	1147	3.70	0.85		<b>-0.93</b>	<b>-1.09</b>	1383	3.37	1.02		<b>-0.60</b>	<b>-0.59</b>
Diff F-M		0.13				0.32						0.36						0.30				
Spring 1998	92	3.26	0.96		1219	3.05	0.93		0.21		535	3.78	0.94		<b>-0.52</b>	<b>-0.55</b>	584	3.02	0.91		0.24	
Male	22	3.45	0.86		442	2.85	0.96		<b>0.60</b>	<b>0.63</b>	297	3.58	0.98		<b>-0.13</b>		247	2.95	0.94		0.50	
Female	70	3.20	0.99		777	3.16	0.89		0.04		236	4.02	0.83		<b>-0.82</b>	<b>-0.99</b>	336	3.07	0.89		0.13	
Diff F-M		<b>-0.25</b>				0.31						0.44						0.12				
Spring 1999	494	3.17	0.83		3072	3.12	0.95		0.05		322	3.24	0.81		-0.07		254	3.04	0.95		0.13	
Male	99	2.95	0.90		1046	2.96	0.94		-0.01		124	3.09	0.82		-0.14		109	3.1	0.99		-0.15	
Female	392	3.23	0.80		2002	3.20	0.95		0.03		195	3.32	0.80		-0.09		144	2.99	0.92		0.24	
Diff F-M		<b>0.28</b>				0.24						0.23						-0.11				
Spring 2000	186	3.26	0.81		3376	2.88	0.87		<b>0.38</b>	0.44	30	3.57	0.82		-0.31		697	2.95	0.87		<b>0.31</b>	0.36
Male	50	3.02	0.87		1119	2.72	0.87		<b>0.30</b>		8	3.00	0.76		0.02		306	2.87	0.87		<b>0.15</b>	
Female	135	3.36	0.78		2213	2.96	0.86		<b>0.40</b>	0.47	22	3.77	0.75		-0.41		359	3.01	0.88		<b>0.35</b>	0.40
Diff F-M		<b>0.34</b>				0.24						0.77						0.14				

Number of course packets  
read

	Truman				Comprehensive College & Univ				TRU-CCU		Selective Liberal Arts Colleges				TRU-SLA		General Liberal Arts Colleges				TRU-GLA	
	N	Mean	SD		N	Mean	SD		Mean Diff	Effect Size	N	Mean	SD		Mean Diff	Effect Size	N	Mean	SD		Mean Diff	Effect Size
Fall 1997	*	*	*		*	*	*		*		*	*	*		*		*	*	*		*	
Spring 1998	*	*	*		*	*	*		*		*	*	*		*		*	*	*		*	
Spring 1999	491	2.58	1.05		3036	2.55	0.96		0.03		315	2.68	0.91		-0.10		247	2.75	1.05		-0.17	
Male	97	2.67	1.13		1035	2.59	0.98		0.08		121	2.82	0.98		-0.15		103	2.86	1.09		-0.19	
Female	391	2.57	1.03		1977	2.53	0.95		0.04		191	2.60	0.86		-0.03		143	2.68	1.01		-0.11	
Diff F-M		-0.10				-0.06						-0.22						-0.18				
Spring 2000	184	2.76	1.06		3310	2.43	0.94		<b>0.33</b>	0.35	29	2.79	1.08		-0.03		684	2.51	1.04		<b>0.25</b>	0.24
Male	49	2.65	0.97		1097	2.4	0.89		<b>0.25</b>		8	2.88	0.83		-0.23		302	2.45	0.98		<b>0.20</b>	
Female	134	2.80	1.10		2170	2.45	0.96		<b>0.35</b>		21	2.76	1.18		0.04		351	2.53	1.08		<b>0.27</b>	0.25
Diff F-M		0.15				0.05						-0.12						0.08				

Reading, Writing, Satisfaction Questions

Number of non-assigned  
books read

	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	224	1.85	0.85	2467	2.14	0.98	-0.29	-0.30	1779	2.18	0.94	-0.33	-0.35	2469	2.15	0.98	-0.30	-0.31
Male	71	1.90	0.90	835	2.12	0.99	-0.22		632	2.13	0.93	-0.23		1089	2.06	0.96	-0.16	
Female	153	1.83	0.83	1629	2.14	0.97	-0.31	-0.32	1147	2.21	0.94	-0.38	-0.40	1375	2.21	0.99	-0.38	-0.38
Diff F-M		-0.07			0.02					0.08					0.15			
Spring 1998	92	2.09	0.86	1215	2.08	0.95	0.01		529	2.31	1.01	-0.22		573	2.12	0.98	-0.03	
Male	22	2.23	0.75	441	2.08	1.00	0.15		296	2.28	1.07	-0.05		242	2.08	0.97	0.15	
Female	70	2.04	0.89	774	2.07	0.92	-0.03		231	2.34	0.91	-0.30		331	2.14	0.99	-0.10	
Diff F-M		-0.19			-0.01					0.06					0.06			
Spring 1999	492	2.27	0.99	3038	1.87	0.91	0.40	0.44	314	1.95	0.88	0.32	0.36	248	1.98	1.07	0.29	0.27
Male	98	2.29	1.07	1033	1.83	0.94	0.46	0.49	120	1.86	0.93	0.43	0.46	104	2.05	1.09	0.24	
Female	391	2.27	0.97	1981	1.89	0.89	0.38	0.43	191	2.01	0.85	0.26	0.31	143	1.94	1.06	0.33	0.31
Diff F-M		-0.02			0.06					0.15					-0.11			
Spring 2000	184	2.20	1.06	3306	1.96	0.95	0.24	0.25	30	1.87	0.73	0.33		687	1.96	1.00	0.24	0.24
Male	49	2.02	1.03	1097	1.89	0.94	0.13		8	1.88	0.35	0.14		302	1.76	0.88	0.26	
Female	134	2.26	1.08	2165	1.99	0.96	0.27	0.28	22	1.86	0.83	0.40		354	2.14	1.06	0.12	
Diff F-M		0.24			0.10					-0.02					0.38			

Number of essays exams  
written

	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	223	2.17	0.70	2494	2.85	1.03	-0.68	-0.66	1785	3.10	1.02	-0.93	-0.91	2502	3.03	1.06	-0.86	-0.81
Male	70	2.20	0.67	847	2.82	1.00	-0.62	-0.62	636	3.14	1.02	-0.94	-0.92	1111	2.99	1.06	-0.79	-0.75
Female	153	2.16	0.72	1644	2.86	1.05	-0.70	-0.67	1149	3.07	1.03	-0.91	-0.88	1387	3.05	1.06	-0.89	-0.84
Diff F-M		-0.04			0.04					-0.07					0.06			
Spring 1998	92	3.20	1.00	1220	2.95	0.99	0.25		529	3.08	1.01	0.12		583	3.21	1.00	-0.01	
Male	22	3.27	0.88	444	2.94	0.96	0.33		293	3.24	1.03	0.03		247	3.23	0.94	0.04	
Female	70	3.17	1.04	776	2.95	1.00	0.22		234	2.85	0.95	0.32		335	3.19	1.05	-0.02	
Diff F-M		-0.10			0.01					-0.39					-0.04			
Spring 1999	491	3.16	1.00	3044	3.03	1.10	0.13		316	3.03	1.05	0.13		248	3.13	1.17	0.03	
Male	95	3.13	1.08	1025	3.12	1.11	0.01		122	3.07	0.98	0.06		106	3.33	1.11	-0.20	
Female	393	3.18	0.97	1995	2.98	1.10	0.20	0.18	191	3.00	1.08	0.18		141	2.96	1.18	0.22	
Diff F-M		0.05			-0.14					-0.07					-0.37			
Spring 2000	185	3.12	0.97	3333	2.99	1.09	0.13		30	3.37	1.00	-0.25		692	3.32	1.10	-0.20	
Male	49	3.06	0.90	1094	3.07	1.09	-0.01		8	2.88	0.99	0.18		299	3.36	1.02	-0.30	
Female	135	3.14	1.00	2195	2.95	1.09	0.19		22	3.55	0.96	-0.41		361	3.27	1.17	-0.13	
Diff F-M		0.08			-0.12					0.67					-0.09			

Number of term papers written

	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	219	2.32	0.83	2486	3.03	1.02	-0.71	-0.70	1778	3.42	0.95	-1.10	-1.16	2491	3.12	1.04	-0.80	-0.77
Male	69	2.23	0.88	844	2.94	1.00	-0.71	-0.71	632	3.33	0.96	-1.10	-1.15	1097	3.06	1.04	-0.83	-0.80
Female	150	2.37	0.81	1640	3.07	1.02	-0.70	-0.69	1146	3.48	0.94	-1.11	-1.18	1389	3.18	1.03	-0.81	-0.79
Diff F-M		0.14			0.13					0.15					0.12			
Spring 1998	92	3.25	0.94	1217	3.03	0.96	0.22		526	3.40	0.98	-0.15		584	3.05	0.97	0.20	
Male	22	3.14	0.89	443	2.93	1.01	0.21		293	3.36	1.03	-0.22		246	3.04	0.98	0.10	
Female	70	3.29	0.97	774	3.09	0.93	0.20		231	3.45	0.91	-0.16		337	3.04	0.96	0.25	
Diff F-M		0.15			0.16					0.09					0.00			
Spring 1999	490	3.40	0.99	3000	3.16	1.03	0.24	0.23	312	3.38	0.92	0.02		243	3.24	1.09	0.16	
Male	95	3.25	1.05	1006	3.17	1.04	0.08		119	3.26	0.93	-0.01		104	3.30	1.13	-0.05	
Female	392	3.45	0.97	1971	3.15	1.03	0.30	0.29	190	3.47	0.89	-0.02		138	3.20	1.06	0.25	
Diff F-M		0.20			-0.02					0.21					-0.10			
Spring 2000	183	3.31	0.99	3259	3.12	1.00	0.19		30	3.43	0.94	-0.12		682	3.32	1.11	-0.01	
Male	49	3.02	1.02	1069	3.05	1.01	-0.03		8	3.50	0.93	-0.48		295	3.35	1.11	-0.33	
Female	133	3.41	0.95	2146	3.16	0.99	0.25	0.25	22	3.41	0.96	0.00		356	3.29	1.12	0.12	
Diff F-M		0.39			0.11					-0.09					-0.06			

## College Student Experience Questionnaire

*Freshman Satisfaction Question Scores by Year (Fall 1997, Spring 1998, Spring 1999, Spring 2000), Gender, and Institutional Type*

Third Edition (1997 &amp; 1998)

Fourth Edition (1999, 2000)

**Bold** = Significant Differences (Scheffe Post Hoc at .05 level), Truman Mean Greater than Comparison Group**Bold Italic** = Significant Differences (Scheffe Post Hoc at .05 level), Truman Mean Less than Comparison Group**Bold** = Significant Differences (Truman Means differ by 0.2 or more per 1997 CSEQ manual)**Scale: I am enthusiastic about it = 4, I like it = 3, I am more or less neutral about it = 2, I don't like it = 1**

How well college is liked

	Truman			Comprehensive College & Univ			TRU-CCU			Selective Liberal Arts Colleges			TRU-SLA			General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size
Fall 1997	225	3.25	0.72	2544	3.04	0.80	<b>0.21</b>	0.26		1797	3.24	0.81	0.01			2544	3.11	0.80		
Male	71	3.20	0.77	872	2.98	0.81	0.22			641	3.18	0.79	0.02			1136	2.97	0.82	0.14	
Female	154	3.27	0.70	1669	3.07	0.80	<b>0.20</b>	0.25		1156	3.28	0.81	-0.01			1403	3.22	0.76		
Diff F-M		0.07			0.09						0.10						0.25			
Spring 1998	92	3.03	0.90	1237	3.16	0.78	-0.13			538	3.31	0.79	<b>-0.28</b>	-0.35		595	2.99	0.81		0.04
Male	22	2.45	0.91	453	3.11	0.80	<b>-0.66</b>	<b>-0.83</b>		301	3.22	0.78	<b>-0.77</b>	<b>-0.99</b>		254	2.81	0.80		
Female	70	3.21	0.81	784	3.19	0.77	0.02			235	3.43	0.78	-0.22			340	3.12	0.79		
Diff F-M		<b>0.76</b>			0.08						0.21						0.31			
Spring 1999	494	3.14	0.80	3076	3.05	0.79	0.09			322	3.03	0.73	0.11			255	3.09	0.75		0.05
Male	98	3.11	0.90	1045	2.98	0.82	0.13			124	2.98	0.71	0.13			111	2.95	0.72		
Female	393	3.14	0.78	2007	3.09	0.77	0.05			195	3.06	0.75	0.08			143	3.19	0.76		
Diff F-M		0.03			0.11						0.08						0.24			
Spring 2000	186	3.12	0.85	3376	2.96	0.78	<b>0.16</b>	0.21		30	3.10	0.88	0.02			707	3.00	0.80		0.12
Male	50	3.12	0.87	1118	2.96	0.80	0.16			8	2.88	0.99	0.24			308	2.93	0.82		
Female	135	3.14	0.83	2214	2.96	0.77	0.18			22	3.18	0.85	-0.04			365	3.08	0.77		
Diff F-M		0.02			0.00						0.30						0.15			

**Scale: Yes, definitely = 4, Probably yes = 3, Probably no = 2, No, definitely = 1**

Would attend same institution again

	Truman			Comprehensive College & Univ			TRU-CCU			Selective Liberal Arts Colleges			TRU-SLA			General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size
Fall 1997	225	3.32	0.74	2542	3.04	0.91	<b>0.28</b>	0.31		1792	3.15	0.87	0.17			2535	3.05	0.93	<b>0.27</b>	0.29
Male	71	3.28	0.78	870	2.98	0.90	0.30			637	3.12	0.89	0.16			1126	2.84	0.96	<b>0.44</b>	0.46
Female	154	3.34	0.73	1669	3.06	0.91	<b>0.28</b>	0.31		1155	3.17	0.85	0.17			1404	3.22	0.86	0.12	
Diff F-M		0.06			0.08						0.05						0.38			
Spring 1998	91	3.05	0.87	1236	3.19	0.84	-0.14			537	3.19	0.88	-0.14			595	2.74	0.96	<b>0.31</b>	0.32
Male	21	2.71	0.85	453	3.13	0.84	-0.42			300	3.09	0.93	-0.38			254	2.61	0.93		
Female	70	3.16	0.86	783	3.23	0.83	-0.07			235	3.31	0.80	-0.15			340	2.85	0.97		
Diff F-M		<b>0.45</b>			0.10						0.22						0.24			
Spring 1999	493	3.11	0.85	3073	3.03	0.89	0.08			321	3.05	0.81	0.06			253	3.03	0.95	0.08	
Male	98	3.09	0.89	1046	2.95	0.91	0.14			124	2.97	0.77	0.12			110	2.83	1.02	0.26	
Female	392	3.11	0.85	2003	3.06	0.87	0.05			194	3.10	0.83	0.01			142	3.18	0.87	-0.07	
Diff F-M		0.02			0.11						0.13						0.35			
Spring 2000	186	3.08	0.87	3374	3.05	0.85	0.03			29	2.93	0.84	0.15			702	2.93	0.93	0.15	
Male	50	2.92	0.88	1116	3.05	0.85	-0.13			7	3.00	1.00	-0.08			305	2.81	0.92	0.11	
Female	135	3.15	0.86	2215	3.06	0.85	0.09			22	2.91	0.81	0.24			363	3.06	0.93	0.09	
Diff F-M		<b>0.23</b>			0.01						-0.09						0.25			

Satisfaction Index = How well college is liked (value) + Would attend same institution again (value)

Overall opinion of college Satisfaction Index	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	225	6.57	1.30	2550	6.06	1.51	0.51	0.34	1800	6.38	1.52	0.19		2549	6.13	1.55	0.44	0.28
Male	71	6.48	1.36	874	5.94	1.49	0.54	0.36	642	6.26	1.53	0.22		1137	5.77	1.61	0.71	0.44
Female	154	6.61	1.28	1673	6.12	1.52	0.49	0.32	1158	6.44	1.51	0.17		1407	6.42	1.45	0.19	
Diff F-M		0.13			0.18					0.18					0.65			
Spring 1998	92	6.05	1.69	1239	6.34	1.41	-0.29		540	6.48	1.52	-0.43		596	5.73	1.55	0.32	
Male	22	5.05	1.62	454	6.23	1.42	-1.18	-0.83	301	6.30	1.54	-1.25	-0.81	255	5.41	1.53	-0.36	
Female	70	6.37	1.60	785	6.41	1.39	-0.04		237	6.69	1.48	-0.32		340	5.97	1.53	0.40	
Diff F-M		1.32			0.18					0.39					0.56			
Spring 1999	493	6.25	1.47	3067	6.08	1.48	0.17		321	6.08	1.37	0.17		253	6.11	1.53	0.14	
Male	98	6.20	1.61	1043	5.93	1.52	0.27		124	5.95	1.31	0.25		110	5.76	1.57	0.44	
Female	392	6.26	1.44	2000	6.15	1.44	0.11		194	6.17	1.41	0.09		142	6.37	1.46	-0.11	
Diff F-M		0.06			0.22					0.22					0.61			
Spring 2000	186	6.20	1.55	3364	6.01	1.42	0.19		29	6.03	1.64	0.17		702	5.93	1.53	0.27	
Male	50	6.04	1.55	1112	6.01	1.42	0.03		7	5.86	1.95	0.18		305	5.74	1.55	0.30	
Female	135	6.29	1.53	2209	6.01	1.42	0.28		22	6.09	1.57	0.20		363	6.14	1.50	0.15	
Diff F-M		0.25			0.00					0.23					0.40			

**College Student Experience Questionnaire**  
**Freshman Activity Scale Scores by Year (Fall 1997, Spring 1998, Spring 1999, Spring 2000) and Institutional Type**

Scale: Very Often = 4, Often = 3, Occasionally = 2, Never = 1

Third Edition (1997 & 1998), 10 Questions per Scale (Sum of Response Values X 10)

Fourth Edition (1999 & 2000), Varying Number of Questions per Scale (Sum of Response Values/Number of Questions)

Effect Size = Indicator of "practical significance" of the magnitude of the difference between means

Small = 0.2 to 0.5 (regular font, no shading)

Moderate = 0.5 to 0.8 (**bold** [Truman positive] or **bold italic** [Truman negative])

Large = Greater than 0.8 (**bold** [Truman positive] or **bold italic** [Truman negative])

**Bold** = Significant Differences (Scheffe Post Hoc at .05 level), Truman Mean Greater than Comparison Group

**Bold italic** = Significant Differences (Scheffe Post Hoc at .05 level), Truman Mean Less than Comparison Group

**Bold** = Significant Differences (1997 & 1998 Truman Means differ by 2.0 or more per 1997 CSEQ manual)

Library Experiences

	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	225	17.17	4.27	2555	18.08	5.00	-0.91		1809	19.61	4.78	-2.44	-0.51	2564	19.21	4.80	-2.04	-0.43
Spring 1998	92	19.38	4.84	1240	17.71	4.72	1.67	0.35	544	20.25	5.02	-0.87		596	19.71	5.04	-0.33	
Diff 98-97		2.21			-0.37					0.64					14.91			
Spring 1999	491	2.76	0.9769	3035	2.44	1.08	0.32	0.30	319	2.7022	1.0411	0.0575		254	2.7126	1.1176	0.0471	
Spring 2000	186	2.81	1.0092	3344	2.33	1.12	0.48	0.43	28	2.3214	0.9833	0.4904		696	2.4799	1.0966	0.3319	
Diff 2000-99		0.05			-0.11					-0.3808					-0.2327			

Computer and IT Scale

	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*	
Spring 1998	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*	
Diff 98-97	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*	
Spring 1999	491	3.24	0.91	3063	3.13	1.03	0.10		323	3.22	0.86	0.02		250	3.38	1.03	-0.14	
Spring 2000	186	3.47	1.01	3339	3.18	1.11	0.29	0.27	29	3.14	1.06	0.34		700	3.33	1.10	0.14	
Diff 2000-99		0.24			0.05					-0.08					-0.05			

Course Learning

(Different Scale Used, high to low)

	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	225	25.80	5.13	2555	26.76	5.72	-0.96		1805	27.67	5.57	-1.87	-0.34	2558	26.61	5.52	-0.81	
Spring 1998	92	26.47	4.97	1241	26.60	5.56	-0.13		541	28.52	5.45	-2.05	-0.38	596	26.81	5.66	-0.34	
Diff 98-97		0.67			-0.16					0.85					0.20			
Spring 1999	485	4.08	0.92	3018	3.84	0.99	0.24	0.24	319	4.08	0.92	0.00		248	4.15	1.10	-0.07	
Spring 2000	183	4.19	0.95	3282	3.81	1.01	0.37	0.37	28	4.04	0.92	0.15		688	4.00	0.95	0.18	
Diff 2000-99		0.11			-0.03					-0.04					-0.15			

Experience in Writing

	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	224	22.28	5.93	2538	25.43	6.27	-3.15	-0.50	1796	26.62	6.10	-4.34	-0.71	2546	25.63	6.05	-3.35	-0.55
Spring 1998	92	24.98	5.85	1237	24.89	6.08	0.09		537	25.12	5.73	-0.14		592	26.90	6.17	-1.92	-0.31
Diff 98-97		2.70			-0.54					-1.50					1.27			
Spring 1999	488	3.77	0.98	3076	3.67	1.05	0.11		322	3.83	0.96	-0.05		255	3.79	1.08	-0.01	
Spring 2000	188	3.68	1.03	3352	3.76	1.07	-0.08		30	3.67	0.76	0.01		702	3.85	1.01	-0.17	
Diff 2000-99		-0.09			0.10					-0.16					0.07			



## Activity

## Experiences with Faculty

	Truman			Comprehensive College & Univ			TRU-CCU			Selective Liberal Arts Colleges			TRU-SLA			General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size
Fall 1997	225	17.09	4.06	2558	19.15	5.13	-2.06	-0.40		1808	21.05	5.13	-3.96	-0.77		2564	20.48	5.14	-3.39	-0.66
Spring 1998	92	19.65	4.05	1242	18.87	4.86	0.78			543	21.55	5.00	-1.90	-0.38		596	21.51	5.34	-1.86	-0.35
Diff 98-97		2.56			-0.28						0.50						1.03			
Spring 1999	488	2.57	1.12	3035	2.48	1.21	0.09			321	2.45	1.11	0.12			254	3.02	1.24	-0.45	-0.36
Spring 2000	184	2.64	1.18	3315	2.39	1.20	0.25			29	2.69	1.17	-0.05			701	2.76	1.23	-0.13	-0.10
Diff 2000-99		0.07			-0.09						0.24						-0.26			

## Art, Music, &amp; Theater

	Truman			Comprehensive College & Univ			TRU-CCU			Selective Liberal Arts Colleges			TRU-SLA			General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size
Fall 1997	225	18.75	5.02	2531	18.56	6.74	0.19			1797	21.66	6.80	-2.91	-0.43		2545	19.32	6.69	-0.57	
Spring 1998	92	21.13	5.02	1237	18.30	6.01	2.83	0.47		541	22.73	6.87	-1.60			19.51	6.70	594.00	14.43	
Diff 98-97		2.38			-0.26						1.07						-12.62			
Spring 1999	492	2.66	1.20	3025	2.20	1.21	0.45	0.37		320	2.49	1.34	0.17			251	2.46	1.32	0.20	
Spring 2000	186	2.73	1.26	3319	2.34	1.30	0.38	0.29		29	2.41	1.27	0.31			697	2.25	1.29	0.47	0.37
Diff 2000-99		0.07			0.14						-0.07						-0.21			

Campus Facilities  
Scale

	Truman			Comprehensive College & Univ			TRU-CCU			Selective Liberal Arts Colleges			TRU-SLA			General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size
Fall 1997	*	*	*	*	*	*	*			*	*	*	*			*	*	*	*	
Spring 1998	*	*	*	*	*	*	*			*	*	*	*			*	*	*	*	
Diff 98-97	*	*	*	*	*	*	*			*	*	*	*			*	*	*	*	
Spring 1999	491	3.10	1.07	3030	2.64	1.17	0.46	0.39		319	3.04	1.14	0.06			248	3.06	1.24	0.04	
Spring 2000	185	3.26	1.05	3338	2.59	1.22	0.67	0.55		29	2.76	1.02	0.50			701	2.78	1.27	0.48	0.38
Diff 2000-99		0.16			-0.05						-0.28						-0.28			

## Clubs &amp; Organizations

	Truman			Comprehensive College & Univ			TRU-CCU			Selective Liberal Arts Colleges			TRU-SLA			General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size
Fall 1997	225	18.50	5.09	2548	16.99	6.72	1.51	0.22		1804	20.65	6.76	-2.15	-0.32		2553	17.85	6.27	0.65	
Spring 1998	92	20.21	6.17	1239	17.53	6.91	2.68	0.39		540	21.34	6.72	-1.13			595	17.81	6.06	2.40	0.40
Diff 98-97		1.71			0.54						0.69						-0.04			
Spring 1999	491	1.68	0.86	3061	1.47	0.78	0.21	0.26		320	1.31	0.61	0.37	0.61		253	1.80	0.98	-0.12	
Spring 2000	188	1.73	0.84	3356	1.39	0.75	0.34	0.45		29	1.45	0.69	0.28			701	1.53	0.79	0.20	0.25
Diff 2000-99		0.05			-0.08						0.14						-0.27			

## Personal Experiences

	Truman			Comprehensive College & Univ			TRU-CCU			Selective Liberal Arts Colleges			TRU-SLA			General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size
Fall 1997	225	20.58	5.43	2534	22.17	6.31	-1.59	-0.25		1797	23.37	6.04	-2.79	-0.46		2550	22.18	6.24	-1.60	-0.26
Spring 1998	92	22.05	5.89	1235	22.46	6.37	-0.41			536	22.77	6.38	-0.72			594	23.04	6.64	-0.99	
Diff 98-97		1.47			0.29						-0.60						0.86			
Spring 1999	489	3.48	1.26	3048	3.35	1.30	0.13			321	3.31	1.27	0.18			253	3.54	1.30	-0.05	
Spring 2000	187	3.52	1.26	3354	3.40	1.35	0.12			30	3.10	1.13	0.42			706	3.41	1.35	0.11	
Diff 2000-99		0.04			0.05						-0.21						-0.13			

## Student Acquaintances

	Truman			Comprehensive College & Univ			TRU-CCU			Selective Liberal Arts Colleges			TRU-SLA			General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size
Fall 1997	225	24.44	6.48	2545	25.25	7.09	-0.81			1801	27.44	6.46	-3.00	-0.46		2550	26.08	6.69	-1.64	-0.25
Spring 1998	92	25.63	6.30	1239	24.83	6.99	0.80			540	28.17	6.74	-2.54	-0.38		596	26.72	7.06	-1.09	
Diff 98-97		1.19			-0.42						0.73						0.64			
Spring 1999	488	3.63	1.27	3036	3.35	1.35	0.28	0.21		321	3.33	1.21	0.30	0.25		252	3.78	1.31	-0.15	
Spring 2000	186	3.66	1.23	3331	3.33	1.42	0.33	0.23		29	3.97	1.30	-0.30			699	3.63	1.36	0.03	
Diff 2000-99		0.03			-0.02						0.64						-0.14			

Science/Quantitative Experiences	Truman			Comprehensive College & Univ			TRU-CCU			Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	
	Fall 1997	225	17.28	6.04	2540	17.58	6.95	-0.30		1787	18.31	7.38	-1.03		2540	17.12	6.95	0.16	
	Spring 1998	91	19.97	5.71	1233	18.17	7.14	1.80		536	19.10	7.15	0.87		595	18.30	7.48	1.67	
	Diff 98-97		2.69			0.59					0.79					1.18			
Spring 1999	490	3.08	1.32	3038	2.62	1.41	0.46	0.33	322	2.46	1.42	0.61	0.43	253	2.71	1.50	0.36	0.24	
Spring 2000	186	3.05	1.37	3315	2.42	1.34	0.63	0.47	30	2.07	1.44	0.98	0.68	697	2.59	1.39	0.46	0.33	
Diff 2000-99		-0.03			-0.19					-0.40					-0.12				
Topics of Conversation	Truman			Comprehensive College & Univ			TRU-CCU			Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	
	Fall 1997	225	19.29	5.18	2529	20.48	5.92	-1.19	-0.20	1787	22.03	5.50	-2.74	-0.50	2532	20.42	5.72	-1.13	-0.20
	Spring 1998	91	20.75	5.43	1229	20.34	5.63	0.41		535	23.83	5.72	-3.08	-0.54	593	20.62	5.60	0.13	
	Diff 98-97		1.46			-0.14					1.80					0.20			
Spring 1999	491	3.01	1.15	3035	2.81	1.16	0.20	0.17	319	2.97	1.07	-1.81		247	2.88	1.22	0.13		
Spring 2000	187	2.97	1.12	3309	2.86	1.21	0.12		29	2.86	1.22	0.11		682	3.00	1.24	-0.02		
Diff 2000-99		-0.04			0.05					-0.11					0.11				
Information in Conversations	Truman			Comprehensive College & Univ			TRU-CCU			Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	
	Fall 1997	225	12.36	3.08	2534	13.55	3.64	-1.19	-0.33	1793	14.18	3.41	-1.82	-0.53	2539	13.48	3.60	-1.12	-0.31
	Spring 1998	91	13.38	3.68	1232	13.32	3.54	0.06		539	14.87	3.57	-1.49	-0.42	596	13.65	3.63	-0.27	
	Diff 98-97		1.02			-0.23					0.69					0.17			
Spring 1999	489	2.96	0.87	3003	2.95	0.94	0.01		317	3.06	0.91	-0.10		249	3.07	1.00	-0.12		
Spring 2000	182	3.05	0.94	3286	2.96	0.99	0.09		28	2.96	0.88	0.09		679	3.09	1.00	-0.04		
Diff 2000-99		0.09			0.01					-0.09					0.02				
Student Union/Center	Truman			Comprehensive College & Univ			TRU-CCU			Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	
	Fall 1997	224	19.03	4.74	2545	20.41	6.50	-1.38	-0.21	1774	20.13	6.62	-1.10		2527	20.99	6.34	-1.96	-0.31
	Spring 1998	92	21.16	4.64	1237	20.61	6.58	0.55		540	22.65	6.09	-1.49		594	20.40	6.24	0.76	
	Diff 98-97		2.13			0.20					2.52					-0.59			
Spring 1999	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*		
Spring 2000	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*		
Diff 2000-99	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*		
Athletic and Recreation Facilities	Truman			Comprehensive College & Univ			TRU-CCU			Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	
	Fall 1997	225	18.09	5.92	2541	18.58	7.74	-0.49		1803	22.28	8.14	-4.19	-0.51	2555	22.26	8.76	-4.17	-0.48
	Spring 1998	92	19.32	5.71	1239	20.01	7.64	-0.69		540	21.31	7.69	-1.99		595	21.96	8.25	-2.64	-0.32
	Diff 98-97		1.23			1.43					-0.97					-0.30			
Spring 1999	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*		
Spring 2000	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*		
Diff 2000-99	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*		
Campus Residence	Truman			Comprehensive College & Univ			TRU-CCU			Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	
	Fall 1997	225	23.32	5.90	1875	24.40	7.52	-1.08		1750	26.49	6.42	-3.17	-0.49	2354	25.14	7.15	-1.82	-0.25
	Spring 1998	91	24.34	5.78	980	24.24	7.89	0.10		538	25.54	6.13	-1.20		548	25.42	7.12	-1.08	
	Diff 98-97		1.02			-0.16					-0.95					0.28			
Spring 1999	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*		
Spring 2000	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*		
Diff 2000-99	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*		

**College Student Experience Questionnaire**  
**Freshman Environment Scale Scores by Year (Fall 1997, Spring 1998, Spring 1999, Spring 2000) and Institutional Type**

**Scale: Strong Emphasis = 7 to Weak Emphasis = 1**

Third Edition (1997 & 1998)  
 Fourth Edition (1999 & 2000)

**Bold** = Significant Differences (Scheffe Post Hoc at .05 level), Truman Mean Greater than Comparison Group  
**Bold Italic** = Significant Differences (Scheffe Post Hoc at .05 level), Truman Mean Less than Comparison Group  
**Bold** = Significant Differences (Truman Means differ by 1.0 or more per 1997 CSEQ manual)

Effect Size = Indicator of "practical significance" of the magnitude of the difference between means  
 Small = 0.2 to 0.5 (regular font, no shading)  
 Moderate = 0.5 to 0.8 (**bold** [Truman positive] or **bold italic** [Truman negative])  
 Large = Greater than 0.8 (**bold** [Truman positive] or **bold italic** [Truman negative])

Emphasis on Developing Academic,  
 Scholarly, and Intellectual Qualities

	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	225	6.40	0.74	2538	5.41	1.20	<b>0.99</b>	<b>0.83</b>	1798	5.97	1.02	<b>0.43</b>	0.42	2544	5.50	1.18	<b>0.90</b>	<b>0.76</b>
Spring 1998	92	6.02	0.95	1230	5.48	1.16	<b>0.54</b>	0.47	538	6.03	1.05	-0.01		595	5.47	1.23	<b>0.55</b>	0.45
Diff 98-97		-0.38			0.07					0.06					-0.03			
Spring 1999	493	6.06	0.99	3068	5.39	1.16	<b>0.67</b>	<b>0.58</b>	323	6.07	0.89	-0.01		256	5.65	1.22	<b>0.41</b>	0.34
Spring 2000	187	6.12	0.90	3364	5.34	1.18	<b>0.78</b>	0.66	30	5.67	1.32	0.45		706	5.57	1.19	<b>0.55</b>	0.46
Diff 2000-99		0.06			-0.05					-0.40					-0.08			

Emphasis on Developing Aesthetic,  
 Expressive, and Creative Qualities

	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	224	5.30	1.06	2539	4.88	1.28	<b>0.42</b>	0.33	1794	5.24	1.23	0.06		2542	5.02	1.30	<b>0.28</b>	0.22
Spring 1998	92	5.00	1.20	1230	4.87	1.22	0.13		537	5.20	1.36	-0.20		595	4.88	1.27	0.12	
Diff 98-97		-0.30			-0.01					-0.04					-0.14			
Spring 1999	493	5.09	1.19	3061	4.86	1.30	<b>0.23</b>	0.18	323	5.54	1.15	<b>-0.45</b>	-0.39	256	5.27	1.25	-0.18	
Spring 2000	186	5.15	1.24	3366	4.86	1.26	<b>0.29</b>	0.23	30	5.00	1.55	0.15		704	4.95	1.37	0.20	
Diff 2000-99		0.06			0.00					-0.54					5.27			

Emphasis on Being Critical,  
 Evaluative, and Analytical

	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	225	5.69	0.94	2532	5.05	1.22	<b>0.64</b>	<b>0.52</b>	1795	5.60	1.10	0.09		2545	5.13	1.25	<b>0.56</b>	0.45
Spring 1998	92	5.52	1.10	1228	5.07	1.16	<b>0.45</b>	0.39	538	5.64	1.20	-0.12		595	5.10	1.23	<b>0.42</b>	0.34
Diff 98-97		-0.17			0.02					0.04					-0.03			
Spring 1999	493	5.62	1.11	3065	5.05	1.21	<b>0.57</b>	0.47	323	5.65	1.06	-0.03		257	5.33	1.33	<b>0.29</b>	0.22
Spring 2000	185	5.64	1.06	3357	5.01	1.20	<b>0.63</b>	<b>0.53</b>	30	5.30	1.37	0.34		703	5.14	1.22	<b>0.50</b>	0.41
Diff 2000-99		0.02			-0.04					-0.35					-0.19			

Environmental Emphasis:  
 Diversity

	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Spring 1998	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Diff 98-97	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Spring 1999	493	4.63	1.42	3064	4.90	1.45	<b>-0.27</b>	-0.19	323	5.33	1.33	<b>-0.70</b>	<b>-0.53</b>	255	5.32	1.49	<b>-0.69</b>	-0.46
Spring 2000	186	4.66	1.47	3363	4.99	1.40	<b>-0.33</b>	-0.24	30	5.73	1.76	<b>-1.07</b>	<b>-0.61</b>	702	4.98	1.47	-0.32	
Diff 2000-99		0.03			0.09					0.40					-0.34			

Environment

Environmental Emphasis:  
Information Literacy Skills

	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Spring 1998	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Diff 98-97	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Spring 1999	492	5.11	1.34	3061	5.31	1.28	-0.20	-0.16	323	5.32	1.21	-0.21		255	5.29	1.27	-0.18	
Spring 2000	186	5.11	1.19	3358	5.30	1.27	-0.19		30	4.97	1.30	0.14		702	5.47	1.26	-0.36	-0.29
Diff 2000-99		0.00			-0.01					-0.35					0.18			

Emphasis on Developing Vocational  
and Occupational Competence

	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	225	4.92	1.25	2540	4.79	1.32	0.13		1797	4.71	1.40	0.21		2543	4.86	1.34	0.06	
Spring 1998	92	4.41	1.4	1227	4.82	1.27	-0.41		535	4.13	1.58	0.28		593	4.82	1.38	-0.41	
Diff 98-97		-0.51			0.03					-0.58					-0.04			
Spring 1999	492	4.48	1.46	3066	4.84	1.37	-0.36	-0.26	323	4.95	1.35	-0.47	-0.35	256	4.93	1.47	-0.45	-0.31
Spring 2000	186	4.30	1.42	3359	4.83	1.36	-0.53	-0.39	30	4.60	1.54	-0.30		701	4.99	1.38	-0.69	-0.50
Diff 2000-99		-0.18			-0.01					-0.35					0.06			

Emphasis on Personal Relevance  
and Practical Value of Courses

	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	225	5.04	1.20	2539	4.90	1.36	0.14		1793	4.99	1.30	0.05		2545	5.11	1.28	-0.07	
Spring 1998	92	4.52	1.36	1230	4.96	1.28	-0.44	-0.34	537	4.86	1.42	-0.34		594	4.94	1.40	-0.42	
Diff 98-97		-0.52			0.06					-0.13					-0.17			
Spring 1999	493	4.61	1.41	3063	4.86	1.37	-0.25	-0.18	323	5.25	1.30	-0.64	-0.49	254	5.12	1.41	-0.51	-0.36
Spring 2000	186	4.34	1.43	3361	4.87	1.40	-0.53	-0.38	30	5.03	1.45	-0.69		702	5.06	1.39	-0.72	-0.52
Diff 2000-99		-0.27			0.01					-0.22					-0.06			

Scale: Friendly, Supportive, Sense of belonging = 7 to Competitive, Uninvolved, Sense of alienation = 1

Relationships with other students

	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	225	5.83	1.05	2539	5.37	1.44	0.46	0.32	1798	5.66	1.31	0.17		2549	5.65	1.30	0.18	
Spring 1998	92	5.65	1.36	1232	5.51	1.36	0.14		537	5.67	1.30	-0.02		592	5.54	1.35	0.11	
Diff 98-97		-0.18			0.14					0.01					-0.11			
Spring 1999	492	5.85	1.14	3068	5.73	1.27	0.12		323	5.90	1.13	-0.05		257	5.89	1.25	-0.04	
Spring 2000	187	5.87	1.21	3367	5.62	1.32	0.25		29	5.59	1.27	0.28		703	5.89	1.19	-0.02	
Diff 2000-99		0.02			-0.11					-0.31					0.00			

**Scale: Helpful, Considerate, Flexible = 7 to Rigid, Impersonal, Bound by Regulations = 1**

Relationships with administrative personnel and offices	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	225	5.05	1.27	2538	4.57	1.59	0.48	0.30	1795	4.63	1.50	0.42	0.28	2544	4.80	1.48	0.25	
Spring 1998	92	4.62	1.55	1231	4.76	1.50	-0.14		534	4.68	1.58	-0.06		592	4.90	1.52	-0.28	
Diff 98-97		-0.95			-0.33					-0.88					-0.53			
Spring 1999	493	4.97	1.34	3068	4.86	1.42	0.11		323	5.18	1.31	-0.21		256	5.34	1.45	-0.37	-0.26
Spring 2000	187	5.01	1.52	3365	4.81	1.47	0.20		30	4.70	1.49	0.31		703	5.21	1.38	-0.20	
Diff 2000-99		0.04			-0.05					-0.48					-0.13			

**Scale: Approachable, Helpful, Understanding, Encouraging = 7 to Remote, Discouraging, Unsympathetic = 1**

Relationships with faculty members	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	225	5.57	1.11	2539	5.09	1.45	0.48	0.33	1797	5.56	1.20	0.01		2543	5.43	1.27	0.14	
Spring 1998	92	5.47	1.10	1232	5.21	1.36	0.26		538	5.63	1.18	-0.16		591	5.43	1.36	0.04	
Diff 98-97		-0.10			0.12					0.07					0.00			
Spring 1999	493	5.40	1.17	3069	5.12	1.38	0.28	0.20	323	5.62	1.15	-0.22		256	5.59	1.37	-0.19	
Spring 2000	187	5.39	1.22	3365	5.06	1.38	0.33	0.24	30	5.43	1.28	-0.04		704	5.45	1.30	-0.06	
Diff 2000-99		-0.01			-0.06					-0.19					-0.14			

**College Student Experience Questionnaire**  
**Freshman Estimate of Gains Scale Scores by Year (Fall 1997, Spring 1998, Spring 1999, Spring 2000) and Institutional Type**

**Scale: Very Much = 4, Quite a Bit = 3, Some = 2, Very Little = 1**

Third Edition (97-98)	<b>Bold</b> = Significant Differences (Scheffe Post Hoc at .05 level), Truman Mean Greater than Comparison Group										Effect Size = Indicator of "practical significance" of the magnitude of the difference between means									
Fourth Edition (99-00)	<b>Bold Italic</b> = Significant Differences (Scheffe Post Hoc at .05 level), Truman Mean Less than Comparison Group										Small = 0.2 to 0.5 (regular font, no shading)									
	<b>Bold</b> = Significant Differences ( <u>Truman Means</u> differ by 0.3 or more per 1997 CSEQ manual)										Moderate = 0.5 to 0.8 ( <b>bold</b> [Truman positive] or <b>bold italic</b> [Truman negative])									
											Large = Greater than 0.8 ( <b>bold</b> [Truman positive] or <b>bold italic</b> [Truman negative])									
Vocational training, acquiring knowledge & skills applicable to a specific job or type of work	Truman			Comprehensive College & Univ			TRU-CCU			Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA		
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size		
	225	1.70	0.79	2520	2.10	0.86	<b>-0.40</b>	-0.47	1791	2.06	0.82	<b>-0.36</b>	-0.44	2531	2.25	0.86	<b>-0.55</b>	<b>-0.64</b>		
	92	1.83	0.69	1230	2.09	0.81	<b>-0.26</b>	-0.32	536	1.91	0.80	<b>-0.08</b>		592	2.26	0.84	<b>-0.43</b>	<b>-0.51</b>		
	Diff 98-97		0.13		-0.01					-0.15					0.01					
	Spring 1999	495	2.18	0.85	3083	2.43	0.86	<b>-0.25</b>	-0.29	323	2.42	0.76	<b>-0.24</b>	-0.32	253	2.58	0.86	<b>-0.40</b>	-0.47	
	Diff 2000-99		-0.11		-0.05					-0.02					0.00					
Acquiring background & specialization for further education in professional, scientific, or scholarly field	Truman			Comprehensive College & Univ			TRU-CCU			Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA		
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size		
	225	2.10	0.83	2513	2.29	0.85	<b>-0.19</b>	-0.22	1789	2.47	0.85	<b>-0.37</b>	-0.44	2533	2.40	0.82	<b>-0.30</b>	-0.37		
	92	2.29	0.82	1230	2.33	0.82	-0.04		536	2.60	0.88	<b>-0.31</b>	-0.35	592	2.35	0.83	-0.06			
	Diff 98-97		0.19		0.04					0.13					-0.05					
	Spring 1999	494	2.46	0.83	3080	2.47	0.83	-0.01		323	2.44	0.76	0.02		253	2.56	0.84	-0.10		
	Diff 2000-99		-0.08		-0.09					0.23					-0.06					
Gaining a broad general education about different fields of knowledge	Truman			Comprehensive College & Univ			TRU-CCU			Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA		
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size		
	225	2.62	0.88	2516	2.55	0.80	0.07		1786	2.89	0.79	<b>-0.27</b>	-0.34	2530	2.66	0.81	-0.04			
	92	2.72	0.72	1231	2.65	0.81	0.07		537	2.99	0.78	<b>-0.27</b>	-0.35	591	2.63	0.80	0.09			
	Diff 98-97		0.10		0.44					-0.26					-0.03					
	Spring 1999	495	2.89	0.79	3072	2.74	0.78	<b>0.15</b>	0.19	323	2.92	0.74	-0.03		253	2.77	0.78	0.12		
	Diff 2000-99		0.02		-0.04					-0.22					-0.06					
Gaining a range of information that may be relevant to a career	Truman			Comprehensive College & Univ			TRU-CCU			Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA		
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size		
	225	2.33	0.83	2520	2.55	0.83	<b>-0.22</b>	-0.27	1786	2.68	0.80	<b>-0.35</b>	-0.44	2525	2.67	0.82	<b>-0.34</b>	-0.41		
	92	2.50	0.72	1227	2.56	0.79	-0.06		537	2.61	0.83	-0.11		592	2.68	0.87	-0.18			
	Diff 98-97		0.17		0.01					-0.07					0.01					
	Spring 1999	494	2.51	0.85	3067	2.70	0.82	<b>-0.19</b>	-0.23	323	2.75	0.77	<b>-0.24</b>	-0.31	251	2.86	0.76	<b>-0.35</b>	-0.46	
	Diff 2000-99		-0.02		-0.11					-0.02					-0.05					
Developing an understanding and enjoyment of art, music, and drama	Truman			Comprehensive College & Univ			TRU-CCU			Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA		
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size		
	225	2.03	0.95	2515	1.98	0.98	0.05		1782	2.33	1.01	<b>-0.30</b>	-0.30	2523	2.03	1.01	0.00			
	92	2.36	0.92	1227	1.97	0.94	<b>0.39</b>	0.41	537	2.28	0.97	0.08		591	2.07	0.98	0.29			
	Diff 98-97		<b>0.33</b>		-0.01					-0.05					0.04					
	Spring 1999	493	2.38	0.97	3071	2.12	0.97	<b>0.26</b>	0.27	323	2.33	1.00	0.05		253	2.27	0.97	0.11		
	Diff 2000-99		0.08		0.08					-0.36					-0.15					

Estimate of Gains

Broadening your acquaintance and enjoyment of literature

	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	222	1.99	0.88	2510	2.02	0.87	-0.03		1783	2.35	0.89	-0.36	-0.40	2526	2.09	0.89	-0.10	
Spring 1998	92	2.11	0.86	1227	2.07	0.88	0.04		537	2.40	0.93	-0.29	-0.31	590	2.13	0.86	-0.02	
Diff 98-97		0.12			0.05					0.05					0.04			
Spring 1999	495	2.26	0.91	3068	2.14	0.89	0.12	0.13	323	2.33	0.86	-0.07		253	2.32	0.92	-0.06	
Spring 2000	187	2.19	0.91	3348	2.16	0.88	0.03		30	2.23	1.04	-0.04		704	2.15	0.93	0.04	
Diff 2000-99		-0.07			0.02					-0.10					-0.17			

Seeing the importance of history for understanding the present and the past

	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	225	2.01	0.91	2514	2.30	0.91	-0.29	-0.32	1780	2.43	0.89	-0.42	-0.47	2526	2.35	0.91	-0.34	-0.37
Spring 1998	90	2.22	0.86	1228	2.33	0.9	-0.11		536	2.57	0.95	-0.35	-0.37	591	2.37	0.88	-0.15	
Diff 98-97		0.21			0.03					0.14					0.02			
Spring 1999	494	2.15	0.92	3076	2.24	0.91	-0.09		323	2.26	0.81	-0.11		253	2.27	0.98	-0.12	
Spring 2000	187	2.18	0.93	3349	2.27	0.91	-0.09		30	2.53	1.04	-0.35		703	2.29	0.94	-0.11	
Diff 2000-99		0.03			0.03					0.27					0.02			

Gaining knowledge about other parts of the world and other people

	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	224	1.94	0.97	2511	2.10	0.95	-0.16		1780	2.25	0.94	-0.31	-0.33	2523	2.05	0.93	-0.11	
Spring 1998	91	1.99	0.81	1227	1.97	0.90	0.02		536	2.54	0.96	-0.55	-0.57	590	2.14	0.89	-0.15	
Diff 98-97		0.05			-0.13					0.29					0.09			
Spring 1999	493	2.06	0.95	3071	2.11	0.91	-0.05		323	2.06	0.84	0.00		252	2.27	0.96	-0.21	
Spring 2000	187	2.15	0.92	3344	2.11	0.92	0.04		29	2.34	0.94	-0.19		703	2.12	0.93	0.03	
Diff 2000-99		0.09			0.00					0.28					-0.15			

Writing clearly and effectively

	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	225	2.30	0.86	2515	2.63	0.82	-0.33	-0.40	1785	2.75	0.84	-0.45	-0.54	2528	2.66	0.83	-0.36	-0.43
Spring 1998	92	2.66	0.80	1229	2.57	0.83	0.09		536	2.72	0.89	-0.06		591	2.68	0.83	-0.02	
Diff 98-97		0.36			-0.06					-0.03					0.02			
Spring 1999	494	2.71	0.85	3063	2.75	0.83	-0.04		322	2.91	0.72	-0.20	-0.28	251	2.81	0.80	-0.10	
Spring 2000	187	2.71	0.85	3342	2.78	0.82	-0.07		30	2.80	0.81	-0.09		702	2.91	0.81	-0.20	-0.25
Diff 2000-99		0.00			0.03					-0.11					0.10			

Speaking effectively

	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*	
Spring 1998	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*	
Diff 98-97	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*	
Spring 1999	493	2.66	0.84	3067	2.59	0.83	0.07		323	2.74	0.76	-0.08		252	2.73	0.84	-0.07	
Spring 2000	187	2.55	0.87	3349	2.58	0.85	-0.03		30	2.63	0.81	-0.08		700	2.76	0.86	-0.21	
Diff 2000-99		-0.11			-0.01					-0.11					0.03			

Acquiring familiarity with the use of computers

	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	225	2.53	0.82	2492	2.53	0.95	0.00		1780	2.71	0.87	-0.18	-0.21	2517	2.63	0.91	-0.10	
Spring 1998	92	2.59	0.89	1218	2.58	0.91	0.01		533	2.61	0.94	-0.02		588	2.71	0.90	-0.12	
Diff 98-97		0.06			0.05					-0.10					0.08			
Spring 1999	493	2.83	0.89	3068	2.94	0.89	-0.11		322	2.91	0.86	-0.08		252	2.92	0.86	-0.09	
Spring 2000	187	2.81	0.89	3347	2.82	0.91	-0.01		30	2.53	0.78	0.28		703	3.05	0.87	-0.24	-0.28
Diff 2000-99		-0.02			-0.12					-0.38					0.13			

Estimate of Gains

Becoming aware of different philosophies, cultures, and ways of life

	Truman			Comprehensive College & Univ			TRU-CCU			Selective Liberal Arts Colleges			TRU-SLA			General Liberal Arts Colleges			TRU-GLA		
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size	
Fall 1997	221	2.33	0.90	2488	2.39	0.90	-0.06			1770	2.65	0.86	-0.32	-0.37		2503	2.46	0.91	-0.13		
Spring 1998	91	2.35	0.81	1215	2.47	0.87	-0.12			537	2.85	0.87	-0.50	-0.57		584	2.43	0.87	-0.08		
Diff 98-97		0.02			0.08						0.20						-0.03				
Spring 1999	494	2.49	0.92	3076	2.51	0.87	-0.02			323	2.61	0.84	-0.12			253	2.60	0.88	-0.11		
Spring 2000	187	2.47	0.85	3348	2.47	0.87	0.00			30	2.97	0.93	-0.50	-0.54		702	2.51	0.94	-0.04		
Diff 2000-99		-0.02			-0.04						0.36						-0.09				

Developing your own values and ethical standards

	Truman			Comprehensive College & Univ			TRU-CCU			Selective Liberal Arts Colleges			TRU-SLA			General Liberal Arts Colleges			TRU-GLA		
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size	
Fall 1997	225	2.35	0.82	2508	2.55	0.92	-0.20	-0.22		1787	2.72	0.85	-0.37	-0.44		2527	2.63	0.89	-0.28	-0.31	
Spring 1998	92	2.50	0.85	1227	2.55	0.88	-0.05			536	2.79	0.93	-0.29	-0.31		591	2.59	0.89	-0.09		
Diff 98-97		0.15			0.00						0.07						-0.04				
Spring 1999	494	2.74	0.92	3071	2.74	0.90	0.00			323	2.85	0.84	-0.11			253	2.78	0.86	-0.04		
Spring 2000	187	2.86	0.92	3343	2.69	0.90	0.17			30	2.83	0.99	0.03			700	2.80	0.93	0.06		
Diff 2000-99		0.12			-0.05						-0.02						0.02				

Understanding yourself--your abilities, interests, and personality

	Truman			Comprehensive College & Univ			TRU-CCU			Selective Liberal Arts Colleges			TRU-SLA			General Liberal Arts Colleges			TRU-GLA		
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size	
Fall 1997	225	2.56	0.87	2510	2.77	0.89	-0.21	-0.24		1784	2.87	0.88	-0.31	-0.35		2525	2.85	0.87	-0.29		
Spring 1998	92	2.70	0.91	1227	2.75	0.86	-0.05			537	2.94	0.87	-0.24			592	2.77	0.91	-0.07		
Diff 98-97		0.14			-0.02						0.07						-0.08				
Spring 1999	495	2.92	0.82	3069	3.00	0.84	-0.08			323	3.04	0.73	-0.12			250	3.04	0.79	-0.12		
Spring 2000	187	2.97	0.82	3345	2.96	0.83	0.01			30	2.83	0.79	0.14			702	3.09	0.84	-0.12		
Diff 2000-99		0.05			-0.04						-0.21						0.05				

Understanding other people and the ability to get along with different kinds of people

	Truman			Comprehensive College & Univ			TRU-CCU			Selective Liberal Arts Colleges			TRU-SLA			General Liberal Arts Colleges			TRU-GLA		
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size	
Fall 1997	225	2.64	0.80	2511	2.80	0.85	-0.16	-0.19		1779	2.91	0.78	-0.27	-0.35		2524	2.86	0.81	-0.22	-0.27	
Spring 1998	92	2.75	0.79	1229	2.76	0.82	-0.01			536	2.88	0.84	-0.13			589	2.83	0.84	-0.08		
Diff 98-97		0.11			-0.04						-0.03						-0.03				
Spring 1999	495	2.92	0.84	3066	3.04	0.82	-0.12	-0.15		323	3.06	0.80	-0.14			250	3.13	0.82	-0.21	-0.26	
Spring 2000	187	3.01	0.81	3343	2.96	0.83	0.05			30	2.93	0.83	0.08			701	3.16	0.81	-0.15		
Diff 2000-99		0.09			-0.08						-0.13						0.03				

Ability to function as a team member

	Truman			Comprehensive College & Univ			TRU-CCU			Selective Liberal Arts Colleges			TRU-SLA			General Liberal Arts Colleges			TRU-GLA		
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size	
Fall 1997	225	2.38	0.89	2514	2.55	0.88	-0.17	-0.19		1784	2.64	0.84	-0.26	-0.31		2525	2.69	0.89	-0.31	-0.35	
Spring 1998	92	2.51	0.81	1229	2.56	0.87	-0.05			535	2.47	0.88	0.04			590	2.72	0.87	-0.21		
Diff 98-97		0.13			0.01						-0.17						0.03				
Spring 1999	495	2.67	0.88	3063	2.75	0.91	-0.08			322	2.86	0.84	-0.19	-0.23		249	2.92	0.83	-0.25	-0.30	
Spring 2000	187	2.65	0.92	3337	2.71	0.91	-0.06			29	2.79	0.77	-0.14			702	3.01	0.89	-0.36	-0.40	
Diff 2000-99		-0.02			-0.04						-0.07						0.09				

Developing good health habits and physical fitness

	Truman			Comprehensive College & Univ			TRU-CCU			Selective Liberal Arts Colleges			TRU-SLA			General Liberal Arts Colleges			TRU-GLA		
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size		N	Mean	SD	Mean Diff	Effect Size	
Fall 1997	222	2.15	0.97	2464	2.29	0.98	-0.14			1760	2.34	0.95	-0.19			2485	2.42	0.94	-0.27	-0.29	
Spring 1998	90	2.26	0.95	530	2.14	0.99	0.12			575	2.46	0.92	-0.20			2404	2.31	0.94	-0.05		
Diff 98-97		0.11			-0.15						0.12						-0.11				
Spring 1999	495	2.53	0.98	3066	2.56	1.00	-0.03			323	2.69	0.94	-0.16			250	2.69	1.00	-0.16		
Spring 2000	187	2.67	0.96	3338	2.60	0.99	0.07			30	2.03	0.96	0.64	0.67		702	2.69	1.00	-0.02		
Diff 2000-99		0.14			0.04						-0.66						0.00				



Estimate of Gains

Understanding the nature of science and experimentation

	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	225	1.84	0.91	2510	1.94	0.92	-0.10		1783	2.01	0.95	-0.17		2524	1.94	0.91	-0.10	
Spring 1998	92	2.17	0.82	1229	2.02	0.90	0.15		536	2.05	0.97	0.12		591	2.04	0.94	0.13	
Diff 98-97		0.33			0.08					0.04					0.10			
Spring 1999	495	2.35	0.95	3062	2.17	0.94	0.18	0.19	323	2.14	0.91	0.21	0.23	251	2.33	1.01	0.02	
Spring 2000	187	2.26	0.98	3339	2.13	0.93	0.13		30	1.93	0.94	0.33		703	2.20	0.95	0.06	
Diff 2000-99		-0.09			-0.04					-0.21					-0.13			

Understanding new scientific and technical developments

	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	224	1.60	0.83	2515	1.85	0.88	-0.25	-0.28	1783	1.87	0.90	-0.27	-0.30	2523	1.87	0.89	-0.27	-0.30
Spring 1998	92	1.86	0.70	1231	1.93	0.88	-0.07		536	1.96	0.96	-0.10		591	1.96	0.93	-0.10	
Diff 98-97		0.26			0.08					0.09					0.09			
Spring 1999	495	2.23	0.93	3059	2.19	0.93	0.04		323	2.13	0.93	0.10		250	2.28	0.98	-0.05	
Spring 2000	187	2.14	0.95	3332	2.14	0.93	0.00		30	1.80	0.89	0.34		701	2.28	0.96	-0.14	
Diff 2000-99		-0.09			-0.05					-0.33					0.00			

Becoming aware if the consequences of applications in science and technology

	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	225	1.63	0.79	2513	1.95	0.88	-0.32	-0.36	1780	1.97	0.88	-0.34	-0.39	2523	2.01	0.91	-0.38	
Spring 1998	92	1.84	0.63	1228	1.97	0.86	-0.13		535	2.09	0.92	-0.25		591	2.07	0.90	-0.23	
Diff 98-97		0.21			0.02					0.12					0.06			
Spring 1999	493	2.14	0.91	3064	2.22	0.92	-0.08		322	2.18	0.88	-0.04		251	2.37	0.96	-0.23	
Spring 2000	187	2.18	0.94	3334	2.18	0.94	0.00		29	2.00	0.93	0.18		702	2.38	0.95	-0.20	
Diff 2000-99		0.04			-0.04					-0.18					0.01			

Ability to think analytically and logically

	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	225	2.30	0.83	2512	2.49	0.82	-0.19	-0.23	1785	2.67	0.80	-0.37	-0.46	2522	2.58	0.81	-0.28	-0.35
Spring 1998	92	2.49	0.72	1227	2.45	0.80	0.04		535	2.72	0.85	-0.23		590	2.55	0.85	-0.06	
Diff 98-97		0.19			-0.04					0.05					-0.03			
Spring 1999	491	2.71	0.85	3051	2.68	0.84	0.03		323	2.81	0.74	-0.10		250	2.76	0.84	-0.05	
Spring 2000	186	2.76	0.84	3321	2.63	0.86	0.13		30	2.60	0.81	0.16		696	2.75	0.83	0.01	
Diff 2000-99		0.05			-0.05					-0.21					-0.01			

Quantitative thinking--Understanding probabilities, proportions, etc.

	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	219	2.04	0.91	2453	2.18	0.85	-0.14		1771	2.19	0.88	-0.15		2485	2.21	0.87	-0.17	
Spring 1998	92	2.08	0.73	1211	2.23	0.85	-0.15		529	2.26	0.96	-0.18		585	2.26	0.90	-0.18	
Diff 98-97		0.04			0.05					0.07					0.05			
Spring 1999	489	2.28	0.91	3063	2.32	0.91	-0.04		323	2.26	0.92	0.02		248	2.39	0.98	-0.11	
Spring 2000	187	2.35	0.90	3333	2.31	0.93	0.04		30	2.10	0.96	0.25		699	2.44	0.93	-0.09	
Diff 2000-99		0.07			-0.01					-0.16					0.05			

Ability to put ideas together, to see relationships, similarities, and differences between ideas

	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	224	2.29	0.78	2511	2.56	0.83	-0.27	-0.33	1779	2.74	0.80	-0.45	-0.56	2526	2.62	0.82	-0.33	-0.40
Spring 1998	91	2.45	0.79	1230	2.54	0.80	-0.09		536	2.83	0.81	-0.38	-0.47	590	2.55	0.80	-0.10	
Diff 98-97		0.16			-0.02					0.09					-0.07			
Spring 1999	493	2.72	0.84	3058	2.71	0.81	0.01		323	2.83	0.75	-0.11		250	2.82	0.83	-0.10	
Spring 2000	186	2.69	0.85	3331	2.69	0.84	0.00		30	2.60	0.93	0.09		701	2.77	0.84	-0.08	
Diff 2000-99		-0.03			-0.02					-0.23					-0.05			

Estimate of Gains

Ability to learn on your own, pursue ideas, and find information you need

	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	225	2.55	0.77	2512	2.72	0.84	-0.17	-0.20	1778	2.84	0.81	-0.29	-0.36	2524	2.76	0.82	-0.21	-0.26
Spring 1998	91	2.78	0.81	1230	2.67	0.81	0.11		535	2.83	0.86	-0.05		591	2.72	0.83	0.06	
Diff 98-97		0.23			-0.05					-0.01					-0.04			
Spring 1999	494	2.89	0.83	3064	2.90	0.82	-0.01		323	3.01	0.73	-0.12		250	2.92	0.86	-0.03	
Spring 2000	186	2.69	0.85	3331	2.69	0.84	0.00		30	2.60	0.93	0.09		701	2.77	0.84	-0.08	
Diff 2000-99		-0.20			-0.21					-0.41					-0.15			

Gain: Adapting to Change

	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*	
Spring 1998	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*	
Diff 98-97	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*	
Spring 1999	495	2.92	0.89	3062	2.97	0.86	-0.05		323	3.13	0.78	-0.21	-0.27	250	3.00	0.86	-0.08	
Spring 2000	186	3.00	0.82	3332	2.84	0.85	0.16		30	2.87	0.94	0.13		701	2.89	0.84	0.11	
Diff 2000-99		0.08			-0.13					-0.26					-0.11			

### College Student Experience Questionnaire

#### Freshman Reading and Writing Question Scores by Year (Fall 1997, Spring 1998, Spring 1999, Spring 2000) and Institutional Type

Scale: None = 1, Fewer than 5 = 2, Between 5 and 10 = 3, Between 10 and 20 = 4, More than 20 = 5

Third Edition (1997 & 1998)  
Fourth Edition (1999 & 2000)

**Bold** = Significant Differences (Scheffe Post Hoc at .05 level), Truman Mean Greater than Comparison Group  
**Bold Italic** = Significant Differences (Scheffe Post Hoc at .05 level), Truman Mean Less than Comparison Group  
**Bold** = Significant Differences (Truman Means differ by 0.2 or more per 1997 CSEQ manual)

Effect Size = Indicator of "practical significance" of the magnitude of the difference between means  
 Small = 0.2 to 0.5 (regular font, no shading)  
 Moderate = 0.5 to 0.8 (**bold** [Truman positive] or **bold italic** [Truman negative])  
 Large = Greater than 0.8 (**bold** [Truman positive] or **bold italic** [Truman negative])

Number of textbooks/ assigned books read	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	223	2.73	0.77	2500	3.07	0.94	<b>-0.34</b>	-0.36	1777	3.57	0.90	<b>-0.84</b>	<b>-0.93</b>	2497	3.24	1.03	<b>-0.51</b>	<b>-0.50</b>
Spring 1998	92	3.26	0.96	1219	3.05	0.93	0.21		535	3.78	0.94	<b>-0.52</b>	<b>-0.55</b>	584	3.02	0.91	0.24	
Diff 98-97		<b>0.53</b>			-0.52					0.54					-0.22			
Spring 1999	494	3.17	0.83	3072	3.12	0.95	0.05		322	3.24	0.81	0.13		254	3.04	0.95	0.13	
Spring 2000	186	3.26	0.81	3376	2.88	0.87	<b>0.38</b>	0.44	30	3.57	0.82	-0.31		697	2.95	0.87	<b>0.31</b>	0.36
Diff 2000-99		0.09			-0.24					0.33					-0.09			
Number of course packets read	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*	
Spring 1998	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*	
Diff 98-97	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*	
Spring 1999	491	2.58	1.05	3036	2.55	0.96	0.03		315	2.68	0.91	-0.10		247	2.75	1.05	-0.17	
Spring 2000	184	2.76	1.06	3310	2.43	0.94	<b>0.33</b>	0.35	29	2.79	1.08	-0.03		684	2.51	1.04	<b>0.25</b>	0.24
Diff 2000-99		0.18			-0.12					0.11					-0.24			
Number of non-assigned books read	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	224	1.85	0.85	2467	2.14	0.98	<b>-0.29</b>	-0.30	1779	2.18	0.94	<b>-0.33</b>	-0.35	2469	2.15	0.98	<b>-0.30</b>	-0.31
Spring 1998	92	2.09	0.86	1215	2.08	0.95	0.01		529	2.31	1.01	-0.22		573	2.12	0.98	-0.03	
Diff 98-97		<b>0.24</b>			-0.06					0.13					-0.03			
Spring 1999	492	2.27	0.99	3038	1.87	0.91	<b>0.40</b>	0.44	314	1.95	0.88	<b>0.32</b>	0.36	248	1.98	1.07	<b>0.29</b>	0.27
Spring 2000	184	2.20	1.06	3306	1.96	0.95	<b>0.24</b>	0.25	30	1.87	0.73	0.33		687	1.96	1.00	<b>0.24</b>	0.24
Diff 2000-99		-0.07			0.09					-0.08					-0.02			
Number of essays exams written	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	223	2.17	0.70	2494	2.85	1.03	<b>-0.68</b>	<b>-0.66</b>	1785	3.10	1.02	<b>-0.93</b>	<b>-0.91</b>	2502	3.03	1.06	<b>-0.86</b>	<b>-0.81</b>
Spring 1998	92	3.20	1.00	1220	2.95	0.99	0.25		529	3.08	1.01	0.12		583	3.21	1.00	-0.01	
Diff 98-97		<b>1.03</b>			-0.15					0.05					0.18			
Spring 1999	491	3.16	1.00	3044	3.03	1.10	0.13		316	3.03	1.05	0.13		248	3.13	1.17	0.03	
Spring 2000	185	3.12	0.97	3333	2.99	1.09	0.13		30	3.37	1.00	-0.25		692	3.32	1.10	-0.20	
Diff 2000-99		-0.04			-0.04					0.34					0.19			
Number of term papers written	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	219	2.32	0.83	2486	3.03	1.02	<b>-0.71</b>	<b>-0.70</b>	1778	3.42	0.95	<b>-1.10</b>	<b>-1.16</b>	2491	3.12	1.04	<b>-0.80</b>	<b>-0.77</b>
Spring 1998	92	3.25	0.94	1217	3.03	0.96	0.22		526	3.4	0.98	-0.15		584	3.05	0.97	0.20	
Diff 98-97		<b>0.93</b>			-0.39					0.28					-0.07			
Spring 1999	490	3.40	0.99	3000	3.16	1.03	<b>0.24</b>	0.23	312	3.38	0.92	0.02		243	3.24	1.09	0.16	
Spring 2000	183	3.31	0.99	3259	3.12	1.00	0.19		30	3.43	0.94	-0.12		682	3.32	1.11	-0.01	
Diff 2000-99		-0.09			-0.04					0.05					0.08			

## College Student Experience Questionnaire

*Freshman Satisfaction Question Scores by Year (Fall 1997, Spring 1998, Spring 1999, Spring 2000) and Institutional Type*

Third Edition (1997 &amp; 1998)

Fourth Edition (1999 &amp; 2000)

**Bold** = Significant Differences (Scheffe Post Hoc at .05 level), Truman Mean Greater than Comparison Group**Bold Italic** = Significant Differences (Scheffe Post Hoc at .05 level), Truman Mean Less than Comparison Group**Bold** = Significant Differences (Truman Means differ by 0.2 or more per 1997 CSEQ manual)**Scale: I am enthusiastic about it = 4, I like it = 3, I am more or less neutral about it = 2, I don't like it = 1**

How well college is liked	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	225	3.25	0.72	2544	3.04	0.80	<b>0.21</b>	0.26	1797	3.24	0.81	0.01		2544	3.11	0.80	0.14	
Spring 1998	92	3.03	0.90	1237	3.16	0.78	-0.13		538	3.31	0.79	<b>-0.28</b>	-0.35	595	2.99	0.81	0.04	
Diff 98-97		<b>-0.22</b>			-0.08					0.20					-0.12			
Spring 1999	494	3.14	0.80	3076	3.05	0.79	0.09		322	3.03	0.73	0.11		255	3.09	0.75	0.05	
Spring 2000	186	3.12	0.85	3376	2.96	0.78	<b>0.16</b>	0.21	30	3.10	0.88	0.02		707	3.00	0.80	0.12	
Diff 2000-99		-0.02			-0.09					0.07					-0.09			

**Scale: Yes, definitely = 4, Probably yes = 3, Probably no = 2, No, definitely = 1**

Would attend same institution again	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	225	3.32	0.74	2542	3.04	0.91	<b>0.28</b>	0.31	1792	3.15	0.87	0.17		2535	3.05	0.93	<b>0.27</b>	0.29
Spring 1998	91	3.05	0.87	1236	3.19	0.84	-0.14		537	3.19	0.88	-0.14		595	2.74	0.96	<b>0.31</b>	0.32
Diff 98-97		<b>-0.27</b>			0.04					0.14					-0.31			
Spring 1999	493	3.11	0.85	3073	3.03	0.89	0.08		321	3.05	0.81	0.06		253	3.03	0.95	0.08	
Spring 2000	186	3.08	0.87	3374	3.05	0.85	0.03		29	2.93	0.84	0.15		702	2.93	0.93	0.15	
Diff 2000-99		-0.03			0.02					-0.12					-0.10			

**Satisfaction Index = How well college is liked (value) + Would attend same institution again (value)**

Overall opinion of college Satisfaction Index	Truman			Comprehensive College & Univ			TRU-CCU		Selective Liberal Arts Colleges			TRU-SLA		General Liberal Arts Colleges			TRU-GLA	
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	225	6.57	1.30	2550	6.06	1.51	<b>0.51</b>	0.34	1800	6.38	1.52	0.19		2549	6.13	1.55	<b>0.44</b>	0.28
Spring 1998	92	6.05	1.69	1239	6.34	1.41	-0.29		540	6.48	1.52	-0.43		596	5.73	1.55	0.32	
Diff 98-97		<b>-0.52</b>			-0.04					0.35					-0.40			
Spring 1999	493	6.25	1.47	3067	6.08	1.48	0.17		321	6.08	1.37	0.17		253	6.11	1.53	0.14	
Spring 2000	186	6.20	1.55	3364	6.01	1.42	0.19		29	6.03	1.64	0.17		702	5.93	1.53	0.27	
Diff 2000-99		-0.05			-0.07					-0.05					-0.18			

## College Student Experience Questionnaire

### Freshman Summary

#### Scales, Indices, and Selected Questions by Year and Effect Size (Truman versus Comparison Group)

Effect Size = Indicator of "practical significance" of the magnitude of the difference between means

Small = 0.2 to 0.5

Moderate = 0.5 to 0.8

Large = Greater than 0.8

Positive = Truman mean greater

Negative = Comparison Group mean greater

Activity Scales	Year	Effect Size		
		CCU	SLA	GLA
Experience in Writing	Fall 1997	Moderate Negative	Moderate Negative	Moderate Negative
Experiences with Faculty	Fall 1997		Moderate Negative	Moderate Negative
Clubs & Organizations	Fall 1997		Moderate Positive	
Science/Quantitative Experiences	Spring 2000		Moderate Positive	
Topics of Conversation	Fall 1997		Moderate Negative	
Information in Conversations	Fall 1997		Moderate Negative	
Athletic and Recreation Facilities	Fall 1997		Moderate Negative	

Environment Scales	Year	Effect Size		
		CCU	SLA	GLA
Emphasis on Developing Academic, Scholarly, and Intellectual Qualities	Fall 1997	Large Positive	Moderate Positive	
	Spring 1999	Moderate Positive		
Emphasis on Being Critical, Evaluative, and Analytical	Fall 1997	Moderate Positive		
	Spring 2000	Moderate Positive		
Environmental Emphasis: Diversity	Spring 1999		Moderate Negative	
	Spring 2000		Moderate Negative	
Emphasis on Developing Vocational and Occupational Competence	Spring 2000			Moderate Negative
Emphasis on Personal Relevance and Practical Value of Courses	Spring 2000			Moderate Negative

Gain Scales	Year	Effect Size		
		CCU	SLA	GLA
Vocational training, acquiring knowledge & skills applicable to a specific job or type of work	Fall 1997			Moderate Negative
	Spring 1998			Moderate Negative
	Spring 2000			Moderate Negative
Gaining knowledge about other parts of the world and other people	Spring 1998		Moderate Negative	
Writing clearly and effectively	Fall 1997		Moderate Negative	
Becoming aware of different philosophies, cultures, and ways of life	Spring 1998		Moderate Negative	
Developing good health habits and physical fitness	Spring 2000		Moderate Positive	
Ability to put ideas together, to see relationships, similarities, and differences between ideas	Fall 1997		Moderate Negative	

Scales by Year and Effect Size

Reading, Writing, and Satisfaction Q.'s	Year	Effect Size		
		CCU	SLA	GLA
Number of textbooks/assigned books read	Fall 1997		Large Negative	Moderate Negative
	Spring 1998		Moderate Negative	
Number of essays exams written	Fall 1997	Moderate Negative	Large Negative	Large Negative
Number of term papers written	Fall 1997	Moderate Negative	Large Negative	Moderate Negative

  

Good Practice Index	Year	Effect Size		
		CCU	SLA	GLA
1. Faculty-Student Interaction	Fall 1997	Moderate Negative	Large Negative	
2. Active Learning	Fall 1997		Moderate Negative	
3. Peer Cooperation/ Cooperation Among Students	Fall 1997		Moderate Negative	
<i>Capacity for Lifelong-learning Index</i>	Fall 1997		Moderate Negative	

## College Student Experience Questionnaire

### Freshman Summary

#### Scales, Indices, and Selected Questions by Year, Gender, and Effect Size (Truman versus Comparison Group)

Effect Size = Indicator of "practical significance" of the magnitude of the difference between means

Small = 0.2 to 0.5

Moderate = 0.5 to 0.8

Large = Greater than 0.8

Positive = Truman mean greater

Negative = Comparison Group mean greater

Activity Scales	Year	Gender	Effect Size		
			CCU	SLA	GLA
Library Experiences	Fall 1997	Female		Moderate Negative	
	Spring 2000	Female	Moderate Positive		
Computer and IT Scale	Spring 2000	Female	Moderate Positive		
Experience in Writing	Fall 1997	Male		Moderate Negative	
		Female	Moderate Negative	Moderate Negative	Moderate Negative
Experiences with Faculty	Fall 1997	Male		Moderate Negative	Moderate Negative
		Female		Large Negative	Moderate Negative
	Spring 1998	Male		Moderate Negative	Moderate Negative
Art, Music, & Theater	Spring 1998	Female	Moderate Positive		
	Spring 1999	Male	Moderate Positive		
	Spring 2000	Female			Moderate Positive
Campus Facilities	Spring 2000	Male	Moderate Positive		
		Female	Moderate Positive		
Clubs & Organizations	Spring 1999	Male		Moderate Positive	
Personal Experiences	Fall 1997	Female		Moderate Negative	
Student Acquaintances	Fall 1997	Female		Moderate Negative	
	Spring 1998	Female		Moderate Negative	
Science/Quantitative Experiences	Spring 2000	Male	Moderate Positive		
		Female		Moderate Positive	
Topics of Conversation	Spring 1998	Female		Moderate Negative	
Information in Conversations	Fall 1997	Male		Moderate Negative	
		Female		Moderate Negative	
Athletic and Recreation Facilities	Fall 1997	Male		Moderate Negative	Moderate Negative
Campus Residence	Fall 1997	Male		Moderate Negative	
		Female		Moderate Negative	

Environment Scales	Year	Gender	Effect Size		
			CCU	SLA	GLA
Emphasis on Developing Academic, Scholarly, and Intellectual Qualities	Fall 1997	Male	Moderate Positive		Moderate Positive
		Female	Large Positive		Moderate Positive
	Spring 1998	Female	Moderate Positive		
	Spring 1999	Female	Moderate Positive		
	Spring 2000	Female	Moderate Positive		
Emphasis on Being Critical, Evaluative, and Analytical	Fall 1997	Male	Moderate Positive		Moderate Positive
		Female	Moderate Positive		
	Spring 1999	Female	Moderate Positive		
	Spring 2000	Female	Moderate Positive		
Environmental Emphasis: Diversity	Spring 1999	Female		Moderate Negative	Moderate Negative
	Spring 2000	Female		Moderate Negative	
Emphasis on Developing Vocational and Occupational Competence	Spring 2000	Male	Moderate Negative		Moderate Negative
Emphasis on Personal Relevance	Spring 1998	Male	Moderate Negative	Moderate Negative	
	Spring 1999	Male		Moderate Negative	
		Female		Moderate Negative	
	Spring 2000	Male	Moderate Negative		Moderate Negative
		Female			Moderate Negative
Gain Scales	Year	Gender	Effect Size		
			CCU	SLA	GLA
Vocational training, acquiring knowledge & skills applicable to a specific job or type of work	Fall 1997	Male			Moderate Negative
		Female	Moderate Negative		
	Spring 1998	Male			Large Negative
	Spring 1999	Female	Moderate Negative		
	Spring 2000	Male	Moderate Negative		
Acquiring background & specialization for further education in professional, scientific, or scholarly field	Spring 1998	Female		Moderate Negative	
Gaining a broad general education about different fields of knowledge	Spring 1998	Female		Moderate Negative	
Gaining knowledge about other parts of the world and other people	Spring 1998	Female		Moderate Negative	
Developing an understanding and enjoyment of art, music, and drama	Spring 1998	Female	Moderate Positive		
Seeing the importance of history for understanding the present and the past	Fall 1997	Male		Moderate Negative	
	Spring 1998	Male		Moderate Negative	
Writing clearly and effectively	Fall 1997	Female			Moderate Negative
Becoming aware of different philosophies, cultures, and ways of life	Spring 1998	Male		Moderate Negative	
		Female		Moderate Negative	
Understanding yourself--your abilities, interests, and personality	Spring 1998	Male		Moderate Negative	
	Spring 1999	Male		Moderate Negative	
Developing good health habits and physical fitness	Fall 1997	Male			Moderate Negative
	Spring 1998	Male	Moderate Negative		Large Negative
	Spring 2000	Female		Moderate Negative	
Ability to think analytically and logically	Fall 1997	Male		Moderate Negative	
Quantitative thinking--Understanding probabilities, proportions, etc.	Spring 1998	Male	Moderate Negative	Moderate Negative	Moderate Negative
Ability to put ideas together, to see relationships, similarities, and differences between ideas	Fall 1997	Male		Moderate Negative	
		Female		Moderate Negative	
	Spring 1998	Female		Moderate Negative	
Gain: Adapting to Change	Spring 1999	Male		Moderate Negative	



Reading, Writing, and Satisfaction Q.'s	Year	Gender	Effect Size		
			CCU	SLA	GLA
Number of textbooks/assigned books read	Fall 1997	Male		Moderate Negative	
		Female		Large Negative	Moderate Negative
	Spring 1998	Male		Moderate Negative	
		Female		Large Negative	
Number of essays exams written	Fall 1997	Male	Moderate Negative	Large Negative	Large Negative
		Female	Large Negative	Large Negative	Large Negative
Number of term papers written	Fall 1997	Male	Moderate Negative	Large Negative	Large Negative
		Female	Moderate Negative	Large Negative	Moderate Negative
How well college is liked	Spring 1998	Male	Large Negative	Large Negative	
Satisfaction Index: Overall opinion of college	Spring 1998	Male	Large Negative	Large Negative	

  

Good Practice Index	Year	Gender	Effect Size		
			CCU	SLA	GLA
1. Faculty-Student Interaction	Fall 1997	Male		Moderate Negative	Moderate Negative
		Female	Moderate Negative	Large Negative	Large Negative
	Spring 2000	Female	Moderate Positive		
2. Active Learning	Fall 1997	Male		Moderate Negative	
		Female		Moderate Negative	Moderate Negative
3. Peer Cooperation/ Cooperation Among Students	Fall 1997	Female		Moderate Negative	
	Spring 2000	Female	Moderate Positive		
<b>Capacity for Lifelong-learning Index</b>	Fall 1997	Male		Moderate Negative	
		Female		Moderate Negative	Moderate Negative
	Spring 1998	Male		Moderate Negative	

**College Student Experience Questionnaire**  
**Freshman Summary**  
**Truman Freshman Developmental Differences Fall 1997-Spring 1998**

<b>Activity Scales</b> <i>Truman Means differ by 2.0 or more</i>	<b>Mean Difference</b>
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Library Experiences	2.21
Experience in Writing	2.70
Experiences with Faculty	2.56
Science/Quantitative Experiences	2.69
Student Union/Center	2.13

<b>Environment Scales</b> <i>Truman Means differ by 1.0 or more</i>	<b>Mean Difference</b>
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None

<b>Gain Scales</b> <i>Truman Means differ by 0.30 or more</i>	<b>Mean Difference</b>
--	------------------------

Developing an understanding and enjoyment of art, music, and drama	0.33
Writing clearly and effectively	0.36
Understanding the nature of science and experimentation	0.33

<b>Reading, Writing, and Satisfaction Q.'s</b> <i>Truman Means differ by 0.20 or more</i>	<b>Mean Difference</b>
--	------------------------

Number of textbooks/assigned books read	0.53
Number of non-assigned books read	0.24
Number of essays exams written	1.03
Number of term papers written	0.93
How well college is liked	-0.22
Would attend same institution again	-0.27
Satisfaction Index: Overall opinion of college	-0.52

<b>Good Practice Index</b> <i>Truman Means differ by 2.0 or more</i>	<b>Mean Difference</b>
---	------------------------

1. Faculty-Student Interaction	4.00
2. Active Learning ( <b>4.0 or more</b> )	4.57
3. Peer Cooperation/ Cooperation Among Students	3.07

**Truman Freshman Differences Spring 1999-Spring 2000**

No significant mean differences on all scales, indices, and selected questions

# College Student Experience Questionnaire

## Freshman Summary

### Truman Freshman Differences by Gender

Positive = Truman female mean greater

Negative = Truman male mean greater

Mean difference value per 1997 CSEQ Manual

Values indicate mean differences are of practical significance

<b>Activity Scales</b> <i>Truman Gender Means differ by 2.0 or more</i>	<b>Year</b>	<b>Mean Difference</b>
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Art, Music, & Theater	Spring 1998	2.21
Personal Experiences	Spring 1998	4.32

<b>Environment Scales</b> <i>Truman Gender Means differ by 1.0 or more</i>	<b>Year</b>	<b>Mean Difference</b>
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None

<b>Gain Scales</b> <i>Truman Gender Means differ by 0.30 or more</i>	<b>Year</b>	<b>Mean Difference</b>
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Vocational training, acquiring knowledge & skills applicable to a specific job or type of work	Spring 1998	0.43
Acquiring background & specialization for further education in professional, scientific, or scholarly field	Spring 1998	0.32
Gaining a broad general education about different fields of knowledge	Spring 1998	0.35
Gaining a range of information that may be relevant to a career	Spring 1998	0.36
Seeing the importance of history for understanding the present and the past	Spring 1998 Spring 2000	0.35 -0.33
Writing clearly and effectively	Spring 1998	0.33
Acquiring familiarity with the use of computers	Spring 1998	0.30
Developing your own values and ethical standards	Spring 1998	0.47
Understanding yourself--your abilities, interests, and personality	Spring 1998 Spring 1999 Spring 2000	0.68 0.31 0.31
Understanding other people and the ability to get along with different kinds of people	Spring 1998 Spring 1999	0.63 0.36
Quantitative thinking--Understanding probabilities, proportions, etc.	Spring 1998	0.40
Gain: Adapting to Change	Spring 1999	0.40

## Truman Freshman Differences by Gender

<b>Reading, Writing, and Satisfaction Q.'s</b> <i>Truman Gender Means differ by 0.20 or more</i>	<b>Year</b>	<b>Mean Difference</b>
Number of textbooks/assigned books read	Spring 1998	-0.25
	Spring 1999	0.28
	Spring 2000	0.34
Number of non-assigned books read	Spring 2000	0.24
Number of term papers written	Spring 1999	0.20
	Spring 2000	0.39
How well college is liked	Spring 1998	0.76
Would attend same institution again	Spring 1998	0.45
	Spring 2000	0.23
Satisfaction Index: Overall opinion of college	Spring 1998	1.32
	Spring 2000	0.25

<b>Good Practice Index</b> <i>Truman Gender Means differ by 2.0 or more</i>	<b>Year</b>	<b>Mean Difference</b>
1. Faculty-Student Interaction	Spring 2000	-2.92
2. Active Learning ( <b>4.0 or more</b> )	Spring 1998	4.81
3. Peer Cooperation/ Cooperation Among Students	Fall 1997	2.04
	Spring 1998	4.54
<b>Capacity for Lifelong-learning Index</b>	Spring 1998	3.05