

## APPENDIX

The systematic review performed for the United States Department of Education (DOE) examined forty quantitative studies pertaining to single-sex research.<sup>265</sup> The systematic review evaluated the following six major research areas:

- (1) Are single-sex schools more effective than coeducational schools in terms of concurrent, quantifiable academic accomplishments? Conversely, are any adverse effects associated with single-sex schools in this realm?
- (2) Are single-sex schools more effective than coeducational schools in terms of long-term, quantifiable academic accomplishment? Conversely, are any adverse effects associated with single-sex schools in this realm?
- (3) Are single-sex schools more effective than coeducational schools in terms of concurrent, quantifiable indicators of individual student adaptation and socioemotional development? Conversely, are any adverse effects associated with single-sex schools in this realm?
- (4) Are single-sex schools more effective than coeducational schools in terms of long-term, quantifiable indicators of individual student adaptation and socioemotional development? Conversely, are any adverse effects associated with single-sex schools in this realm?
- (5) Are single-sex schools more effective than coeducational schools in terms of addressing issues of procedural (e.g., classroom treatment) and outcome measures of gender inequity? Conversely, are any adverse effects associated with single-sex schools related to gender equity?

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<sup>265</sup> DOE Research, *supra* n. 112, at 6. For a complete discussion about the systematic review and its findings, see *supra* notes 111–121 and accompanying text.

- (6) Are single-sex schools more effective than coeducational schools in terms of perceptual measures of the school climate or culture that may have an impact on performance? Conversely, are any adverse effects associated with single-sex schools in this realm?<sup>266</sup>

The following tables document the results of each study according to these six areas and contain itemization of specific criteria within each major area. Because some studies addressed more than one criteria, the total number of studies may exceed forty.<sup>267</sup> Additionally, “the percentages in the summary table should be treated with caution when only one or two studies appear for that outcome category.”<sup>268</sup>

The codes used in the tables are easily understood. “Pro-SS” means that a study’s findings all supported single-sex schooling for a particular item.<sup>269</sup> “Pro-CE” means that a study’s findings all supported coeducation for that item.<sup>270</sup> “Null” represents that all findings did not distinguish between single-sex and coeducational schools.<sup>271</sup> “Mixed” means that a study had significantly opposite findings for different groups in the same variable; in other words, “Mixed” would be used if the study found that single-sex education favored boys but disfavored girls.<sup>272</sup>

All of these tables were taken from the tables and appendices in the report on the systematic review.<sup>273</sup>

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266. *Id.* at 2.

267. *Id.* at xii.

268. *Id.*

269. *Id.*

270. *Id.*

271. *Id.*

272. *Id.*

273. *Id.* at xiii–xiv, 125–128. The report authorizes use and reprint of its material in whole or part. *Id.* at i.

TABLE 1: SUMMARY FINDINGS

Outcome	Total Number of Studies	Pro-SS		Pro-CE		Null		Mixed	
		Number of Studies	Percent	Number of Studies	Percent	Number of Studies	Percent	Number of Studies	Percent
<b>Concurrent Academic Accomplishment</b>									
1) All-Subject Achievement Test Scores	9	6	67%	1	11%	2	22%	0	0%
2) Mathematics Achievement Test Scores	14	3	22%	0	0%	8	56%	3	22%
3) Science Achievement Test Scores	8	2	25%	0	0%	5	62%	1	13%
4) Verbal/English Achievement Test Scores	10	3	30%	0	0%	7	70%	0	0%
5) Grades	1	0	0%	0	0%	1	100%	0	0%
6) Social Studies Achievement Test Scores	1	1	100%	0	0%	0	0%	0	0%
<b>Subtotal</b>	<b>43</b>	<b>15</b>	<b>35%</b>	<b>1</b>	<b>2%</b>	<b>23</b>	<b>53%</b>	<b>4</b>	<b>10%</b>
<b>Long-Term Academic Accomplishment</b>									
7) Postsecondary Test Scores	2	1	50%	0	0%	1	50%	0	0%
8) College Graduation	1	0	0%	0	0%	1	100%	0	0%
9) Graduate School Attendance	1	0	0%	0	0%	1	100%	0	0%
<b>Subtotal</b>	<b>4</b>	<b>1</b>	<b>25%</b>	<b>0</b>	<b>0%</b>	<b>3</b>	<b>75%</b>	<b>0</b>	<b>0%</b>
<b>Concurrent Adaptation and Socioemotional Development</b>									
10) Self-concept	7	4	57%	0	0%	3	43%	0	0%
11) Self-esteem	6	1	17%	2	33%	3	50%	0	0%
12) Locus of Control	5	3	60%	0	0%	2	40%	0	0%
13) School Track/Subject Preference	14	5	36%	2	14%	6	43%	1	7%
14) Educational Aspirations	3	2	67%	0	0%	1	33%	0	0%
15) Career Aspirations	2	2	100%	0	0%	0	0%	0	0%
16) Delinquency	4	2	50%	0	0%	2	50%	0	0%
17) Attitudes Toward School	5	1	20%	1	20%	1	20%	2	40%
18) Time Spent per Week on Homework	2	1	50%	0	0%	1	50%	0	0%
19) Attitudes Toward Working Women	1	1	100%	0	0%	0	0%	0	0%
<b>Subtotal</b>	<b>49</b>	<b>22</b>	<b>45%</b>	<b>5</b>	<b>10%</b>	<b>19</b>	<b>39%</b>	<b>3</b>	<b>6%</b>

**TABLE 1: SUMMARY FINDINGS (cont'd)**

Outcome	Total Number of Studies	Pro-SS		Pro-CE		Null		Mixed	
		Number of Studies	Percent	Number of Studies	Percent	Number of Studies	Percent	Number of Studies	Percent
<b>Long-term Adaptation and Socioemotional Development</b>									
20) School Completion	1	1	100%	0	0%	0	0%	0	0%
21) Postsecondary Success	1	0	0%	0	0%	1	100%	0	0%
22) Postsecondary Unemployment	2	1	50%	0	0%	1	50%	0	0%
23) Eating Disorders	1	0	0%	1	100%	0	0%	0	0%
24) Choice of College Major	1	1	100%	0	0%	0	0%	0	0%
25) Sex-Role Stereotyping	2	1	50%	1	50%	0	0%	0	0%
26) Political Involvement	1	1	100%	0	0%	0	0%	0	0%
27) Percent Married to First Spouse	1	0	0%	0	0%	1	100%	0	0%
<b>Subtotal</b>	<b>10</b>	<b>5</b>	<b>50%</b>	<b>2</b>	<b>20%</b>	<b>3</b>	<b>30%</b>	<b>0</b>	<b>0%</b>
<b>Perceived School Culture</b>									
28) Climate for Learning	1	1	100%	0	0%	0	0%	0	0%
29) Opportunities for Leadership Roles	2	1	50%	0	0%	1	50%	0	0%
30) School Environment	1	0	0%	0	0%	1	100%	0	0%
<b>Subtotal</b>	<b>4</b>	<b>2</b>	<b>50%</b>	<b>0</b>	<b>0%</b>	<b>2</b>	<b>50%</b>	<b>0</b>	<b>0%</b>
<b>Subjective Satisfaction</b>									
31) Satisfaction with School Environment	1	0	0%	1	100%	0	0%	0	0%
32) College Satisfaction	1	1	100%	0	0%	0	0%	0	0%
<b>Subtotal</b>	<b>2</b>	<b>1</b>	<b>50%</b>	<b>1</b>	<b>50%</b>	<b>0</b>	<b>0%</b>	<b>0</b>	<b>0%</b>
<b>TOTALS</b>	<b>112</b>	<b>46</b>		<b>9</b>		<b>50</b>		<b>7</b>	

TABLE 2: STUDY OUTCOMES FOR BOYS

Outcome	Total	Pro-SS		Pro-CE		Null		Mixed	
		N	Percent	N	Percent	N	Percent	N	Percent
<b>Concurrent Academic Accomplishment</b>									
1) All-Subject Achievement Test Scores	4	3	75%	0	0%	1	25%	0	0%
2) Mathematics Achievement Test Scores	9	3	33%	2	23%	4	44%	0	0%
3) Science Achievement Test Scores	3	1	33%	0	0%	2	67%	0	0%
4) Verbal/English Achievement Test Scores	6	2	33%	0	0%	3	50%	1	17%
5) Grades	0	0	0%	0	0%	0	0%	0	0%
6) Social Studies Achievement Test Scores	1	0	0%	0	0%	1	100%	0	0%
<b>Long-Term Academic Accomplishment</b>									
7) Postsecondary Test Scores	1	1	100%	0	0%	0	0%	0	0%
8) College Graduation	0	0	0%	0	0%	0	0%	0	0%
9) Graduate School Attendance	0	0	0%	0	0%	0	0%	0	0%
<b>Concurrent Adaptation and Socioemotional Development</b>									
10) Self-Concept	3	1	33%	0	0%	2	67%	0	0%
11) Self-Esteem	3	1	33%	2	67%	0	0%	0	0%
12) Locus of Control	3	2	67%	0	0%	1	33%	0	0%
13) School Track and Subject Preference	7	2	29%	2	29%	3	43%	0	0%
14) Educational Aspirations	2	0	0%	0	0%	2	100%	0	0%
15) Career Aspirations	1	1	100%	0	0%	0	0%	0	0%
16) Delinquency	1	0	0%	0	0%	1	100%	0	0%
17) Attitudes Toward School	3	2	67%	0	0%	1	33%	0	0%
18) Time Spent per Week on Homework	1	1	100%	0	0%	0	0%	0	0%
19) Attitudes Toward Working Women	1	0	0%	0	0%	1	100%	0	0%
<b>Long-Term Adaptation and Socioemotional Development</b>									
20) School Completion	1	1	100%	0	0%	0	0%	0	0%
21) Postsecondary Success	0	0	0%	0	0%	0	0%	0	0%
22) Postsecondary Unemployment	1	1	100%	0	0%	0	0%	0	0%
23) Eating Disorders	0	0	0%	0	0%	0	0%	0	0%

**TABLE 2: STUDY OUTCOMES FOR BOYS (cont'd)**

Outcome	Total	Pro-SS		Pro-CE		Null		Mixed	
		N	Percent	N	Percent	N	Percent	N	Percent
24) Choice of College Major	0	0	0%	0	0%	0	0%	0	0%
25) Sex-Role Stereotyping	1	0	0%	0	0%	1	100%	0	0%
26) Political Involvement	0	0	0%	0	0%	0	0%	0	0%
27) Percent Married to First Spouse	1	0	0%	0	0%	1	100%	0	0%
<b>Perceived School Culture</b>									
28) Climate for Learning	1	1	100%	0	0%	0	0%	0	0%
29) Opportunities for Leadership Roles	1	1	100%	0	0%	0	0%	0	0%
30) School Environment	0	0	0%	0	0%	0	0%	0	0%
<b>Subjective Satisfaction</b>									
31) Satisfaction with School Environment	0	0	0%	0	0%	0	0%	0	0%
32) College Satisfaction	0	0	0%	0	0%	0	0%	0	0%

TABLE 3: STUDY OUTCOMES FOR GIRLS

Outcomes	Total	Pro-SS		Pro-CE		Null		Mixed	
		N	Percent	N	Percent	N	Percent	N	Percent
<b>Concurrent Academic Accomplishment</b>									
1) All-Subject Achievement Test Scores	8	5	63%	2	25%	1	13%	0	0%
2) Mathematics Achievement Test Scores	11	3	27%	0	0%	8	73%	0	0%
3) Science Achievement Test Scores	5	2	40%	0	0%	3	60%	0	0%
4) Verbal/English Achievement Test Scores	8	1	12.5%	0	0%	6	75%	1	12.5%
5) Grades	0	0	0%	0	0%	0	0%	0	0%
6) Social Studies Achievement Test Scores	1	1	100%	0	0%	0	0%	0	0%
<b>Long-Term Academic Accomplishment</b>									
7) Postsecondary Test Scores	1	1	100%	0	0%	0	0%	0	0%
8) College Graduation	0	0	0%	0	0%	0	0%	0	0%
9) Graduate School Attendance	0	0	0%	0	0%	0	0%	0	0%
<b>Concurrent Adaptation and Socioemotional Development</b>									
10) Self-Concept	4	3	75%	0	0%	1	25%	0	0%
11) Self-Esteem	3	0	0%	0	0%	3	100%	0	0%
12) Locus of Control	3	3	100%	0	0%	0	0%	0	0%
13) School Track and Subject Preference	8	5	63%	1	13%	2	25%	0	0%
14) Educational Aspirations	2	2	100%	0	0%	0	0%	0	0%
15) Career Aspirations	2	2	100%	0	0%	0	0%	0	0%
16) Delinquency	3	2	67%	0	0%	1	33%	0	0%
17) Attitudes Toward School	3	2	67%	1	33%	0	0%	0	0%
18) Time Spent per Week on Homework	1	1	100%	0	0%	0	0%	0	0%
19) Attitudes Toward Working Women	1	1	100%	0	0%	0	0%	0	0%
<b>Long-Term Adaptation and Socioemotional Development</b>									
20) School Completion	1	1	100%	0	0%	0	0%	0	0%
21) Postsecondary Success	0	0	0%	0	0%	0	0%	0	0%
22) Postsecondary Unemployment	1	1	100%	0	0%	0	0%	0	0%
23) Eating Disorders	1	0	0%	1	100%	0	0%	0	0%

**TABLE 3: STUDY OUTCOMES FOR GIRLS (cont'd)**

Outcomes	Total	Pro-SS		Pro-CE		Null		Mixed	
		N	Precent	N	Precent	N	Precent	N	Precent
24) Choice of College Major	1	1	100%	0	0%	0	0%	0	0%
25) Sex-Role Stereotyping	2	1	50%	1	50%	0	0%	0	0%
26) Political Involvement	1	1	100%	0	0%	0	0%	0	0%
27) Percent Married to First Spouse	1	0	0%	0	0%	1	100%	0	0%
<b>Perceived School Culture</b>									
28) Climate for Learning	1	1	100%	0	0%	0	0%	0	0%
29) Opportunities for Leadership Roles	2	1	50%	0	0%	1	50%	0	0%
30) School Environment	0	0	0%	0	0%	0	0%	0	0%
<b>Subjective Satisfaction</b>									
31) Satisfaction with School Environment	0	0	0%	0	0%	0	0%	0	0%
32) College Satisfaction	1	1	100%	0	0%	0	0%	0	0%