

## **Appendix Tables**

**Table A-1**  
**Average Number of Days of Instruction in Each Subject**  
**in the Last Five School Days, by Extent of Participation**  
**in LSC K–8 Science Professional Development**

	<b>0 Hours</b>	<b>1–19 Hours</b>	<b>20–39 Hours</b>	<b>40 or More</b>
<b>Reading/Language Arts</b>	4.8	4.8	4.9	4.8
<b>Mathematics</b>	4.6	4.6	4.7	4.6
<b>Science</b>	2.6	2.7	3.0	3.1
<b>Social Studies</b>	2.7	2.7	2.8	2.7

**Table A-2**  
**Average Number of Days of Instruction in Each Subject**  
**in the Last Five School Days, by Extent of Participation**  
**in LSC K–8 Mathematics Professional Development**

	<b>0 Hours</b>	<b>1–19 Hours</b>	<b>20–39 Hours</b>	<b>40 or More</b>
<b>Reading/Language Arts</b>	4.8	4.7	4.7	4.7
<b>Mathematics</b>	4.6	4.6	4.7	4.7
<b>Science</b>	2.5	2.5	2.6	2.6
<b>Social Studies</b>	2.7	2.5	2.6	2.7

**Table A-3**  
**K–8 Teachers Feeling Well-Prepared to**  
**Teach each Subject, by Level of Treatment**

	<b>K–8 Science</b>				<b>K–8 Mathematics</b>			
	<b>0 Hours</b>	<b>1–19 Hours</b>	<b>20–39 Hours</b>	<b>40 or More</b>	<b>0 Hours</b>	<b>1–19 Hours</b>	<b>20–39 Hours</b>	<b>40 or More</b>
<b>Reading/Language Arts</b>	95	96	97	96	93	94	95	94
<b>Mathematics</b>	92	93	96	94	90	91	96	95
<b>Social Studies</b>	81	83	88	85	78	77	82	81
<b>Science</b>	65	70	80	86	63	67	57	71

**Table A-4**  
**Summary of the Impact of LSC Professional Development**  
**on Teacher Perceptions of Their Preparedness and Teaching**

Questionnaire Composite	Effect Size					
	K-8 Science		K-8 Mathematics		6-12 Mathematics	
	Number of Standard Deviations*	Effect Size**	Number of Standard Deviations*	Effect Size**	Number of Standard Deviations*	Effect Size**
Attitudes Toward Teaching	.15	+	.06	NS	.27	+
Pedagogical Preparedness	.52	++	.25	+	.07	NS
Content Preparedness	.27	+	.20	+	-.03	NS
Investigative Culture	.55	++	.17	+	.36	+
Investigative Practices	.53	++	.27	+	.35	+
Use of Calculators and Computers	—	—	.27	+	.03	NS

\* Comparison between untreated teachers and teachers with 40 or more hours LSC professional development.

\*\* A single “+” indicates a small positive effect; “++” indicates a medium positive effect, while “NS” means not significant.