

Appendix B - Student and School Growth Norms

Tables in this appendix provide the grade level term-to-term growth norms for mathematics, reading, language usage and general science, respectively. For each content area there are two multi-part tables. The first table for a content area (Tables B.1 B.3, B.5, and B.7) provides student growth norms. The second table (Tables B.2 B.4, B.6, and B.8) provides school growth norms. Both tables have an identical layout. The first group of columns from the left, after Grade, provides the mean starting status and standard deviation for the grade level in the starting term indicated (e.g., Last Winter, Last Spring, Fall). The next group of columns to the right (the To Term columns), provides the mean growth and standard deviation from the starting term to the indicated ending term. It should be noted that all the means (starting status and growth) in the student table and the corresponding means in the school table are identical within a content area; only the standard deviations differ.

To determine, for example, the normative fall-to-spring growth in mathematics for schools at the grade 3 level, we would see from looking at Table B.2, under the Fall column, that the mean starting status for grade 3 was 190.40 with a standard deviation of 5.88. Moving from these cells in the same row, we will find under the To Spring column, that the mean grade 3, fall-to-spring growth for schools was 12.99 with a standard deviation of 2.20. If we were also interested in determining the corresponding information from the student table, we would see the same mean growth (12.99) with a standard deviation nearly three times larger (6.47).

Table B.1: Student Mathematics Growth Norms

Status		Growth		Growth		Growth	
Current	Last Win		to Winter				
Grade	Mean	SD	Mean	SD			
1	151.34	14.45	22.51	6.88			
2	172.79	14.30	13.60	6.43			
3	185.76	12.98	12.44	5.95			
4	198.17	13.36	10.54	5.81			
5	208.09	14.74	9.14	6.15			
6	216.43	16.10	5.63	6.25			
7	220.76	16.74	5.36	5.80			
8	224.66	17.73	4.48	6.44			
9	229.26	19.10	2.98	7.31			
10	229.27	19.69	2.25	7.01			

Current	Last Spr		to Spring				
Grade	Mean	SD	Mean	SD			
1	159.62	15.95	21.19	7.72			
2	179.42	15.29	12.68	7.35			
3	191.59	13.62	11.81	6.76			
4	203.54	14.12	9.95	6.63			
5	212.74	15.77	8.62	7.01			
6	220.44	17.35	4.88	7.15			
7	223.68	17.78	4.92	6.59			
8	226.92	18.55	4.00	7.77			
9	230.89	20.16	2.52	8.50			
10	230.23	20.68	2.14	8.95			

Current	Fall		To Winter		To Spring		To Next Fall	
Grade	Mean	SD	Mean	SD	Mean	SD	Mean	SD
K	140.04	15.06	11.43	5.56	19.10	7.59	24.02	9.14
1	162.42	12.87	11.43	5.50	18.40	7.45	14.59	8.12
2	176.90	13.22	9.50	5.35	15.21	7.11	13.23	7.04
3	190.40	13.10	7.81	5.08	12.99	6.47	11.36	6.41
4	201.94	13.76	6.77	5.05	11.55	6.41	9.89	6.12
5	211.44	14.68	5.79	5.22	9.92	6.80	5.99	6.50
6	217.62	15.53	4.44	5.20	7.71	6.75	6.70	6.67
7	222.65	16.59	3.47	5.11	5.95	6.55	5.47	6.26
8	226.30	17.85	2.85	5.59	4.63	7.66	3.96	7.16
9	230.27	18.13	1.96	5.81	3.13	8.15	2.40	7.38
10	230.06	19.60	1.46	6.18	2.31	8.92	2.00	7.76

Current	Winter		to Spring			
Grade	Mean	SD	Mean	SD		
K	151.47	13.95	7.67	5.03		
1	173.85	12.96	6.97	4.99		
2	186.39	13.11	5.72	4.90		
3	198.21	13.29	5.19	4.73		
4	208.71	14.27	4.78	4.72		
5	217.23	15.33	4.13	4.82		
6	222.06	16.00	3.26	4.80		
7	226.12	17.07	2.47	4.75		
8	229.15	18.31	1.78	5.05		
9	232.24	18.62	1.17	5.19		
10	231.52	20.01	0.85	5.42		

Table B.2: School Mathematics Growth Norms

Status		Growth		Growth		Growth	
Current	Last Win		to Winter				
Grade	Mean	SD	Mean	SD			
1	151.34	6.80	22.51	3.02			
2	172.79	6.59	13.60	2.51			
3	185.76	5.81	12.44	2.09			
4	198.17	6.00	10.54	1.90			
5	208.09	7.12	9.14	2.13			
6	216.43	7.44	5.63	2.01			
7	220.76	7.90	5.36	1.80			
8	224.66	8.78	4.48	1.98			
9	229.26	9.64	2.98	2.46			
10	229.27	10.32	2.25	2.06			

Current	Last Spr		to Spring				
Grade	Mean	SD	Mean	SD			
1	159.62	7.67	21.19	3.57			
2	179.42	7.45	12.68	3.27			
3	191.59	6.29	11.81	2.74			
4	203.54	6.48	9.95	2.44			
5	212.74	7.78	8.62	2.85			
6	220.44	8.11	4.88	2.53			
7	223.68	8.50	4.92	2.20			
8	226.92	9.18	4.00	2.50			
9	230.89	10.24	2.52	3.00			
10	230.23	10.72	2.14	2.72			

Current	Fall		To Winter		To Spring		To Next Fall	
Grade	Mean	SD	Mean	SD	Mean	SD	Mean	SD
K	140.04	7.03	11.43	1.77	19.10	3.09	24.02	3.97
1	162.42	5.73	11.43	1.71	18.40	2.99	14.59	3.37
2	176.90	5.83	9.50	1.52	15.21	2.66	13.23	2.40
3	190.40	5.88	7.81	1.26	12.99	2.20	11.36	2.03
4	201.94	6.11	6.77	1.30	11.55	2.27	9.89	1.82
5	211.44	7.00	5.79	1.54	9.92	2.70	5.99	2.13
6	217.62	7.19	4.44	1.33	7.71	2.33	6.70	2.02
7	222.65	7.71	3.47	1.22	5.95	2.13	5.47	1.95
8	226.30	8.80	2.85	1.26	4.63	2.20	3.96	2.02
9	230.27	9.14	1.96	1.36	3.13	2.38	2.40	2.37
10	230.06	10.06	1.46	1.53	2.31	2.67	2.00	2.22

Current	Winter		to Spring			
Grade	Mean	SD	Mean	SD		
K	151.47	6.48	7.67	1.32		
1	173.85	5.89	6.97	1.28		
2	186.39	5.98	5.72	1.14		
3	198.21	6.12	5.19	0.94		
4	208.71	6.55	4.78	0.97		
5	217.23	7.57	4.13	1.16		
6	222.06	7.61	3.26	1.00		
7	226.12	8.06	2.47	0.92		
8	229.15	9.21	1.78	0.94		
9	232.24	9.60	1.17	1.02		
10	231.52	10.36	0.85	1.15		

Table B.3: Student Reading Growth Norms

Status		Growth		Growth		Growth	
Current	Last Win		to Winter				
Grade	Mean	SD	Mean	SD			
1	151.82	13.75	19.71	7.87			
2	171.67	15.75	12.50	7.23			
3	183.80	15.98	11.81	6.52			
4	195.30	15.69	8.30	6.08			
5	203.32	15.32	6.50	6.39			
6	209.60	15.40	4.61	6.63			
7	212.94	15.59	3.97	6.14			
8	215.56	15.54	3.53	6.89			
9	219.37	15.90	1.90	7.57			
10	219.06	16.83	1.95	7.42			

Current	Last Spr		to Spring				
Grade	Mean	SD	Mean	SD			
1	158.76	16.01	18.76	8.54			
2	177.75	16.89	10.94	8.05			
3	188.15	16.25	10.47	7.25			
4	198.39	15.97	7.54	6.83			
5	205.83	15.57	5.96	7.19			
6	211.55	15.92	4.20	7.48			
7	214.33	16.19	3.83	7.05			
8	216.99	15.89	3.09	8.30			
9	220.40	16.62	1.48	8.75			
10	219.47	17.84	1.72	9.59			

Current	Fall		To Winter		To Spring		To Next Fall	
Grade	Mean	SD	Mean	SD	Mean	SD	Mean	SD
K	141.05	13.54	10.28	6.01	17.10	8.11	21.48	9.72
1	160.70	13.08	10.84	6.00	16.82	8.09	14.02	9.64
2	174.72	15.52	9.45	6.05	13.97	8.20	13.65	8.34
3	188.29	15.85	7.31	5.79	10.33	7.59	9.92	7.51
4	198.16	15.53	5.43	5.56	7.76	7.05	7.43	6.77
5	205.68	15.13	4.15	5.60	6.11	7.15	5.45	7.14
6	210.99	14.94	3.22	5.62	4.76	7.19	4.62	7.24
7	214.45	15.31	2.46	5.58	3.71	7.11	3.93	6.82
8	217.24	15.72	1.85	6.05	2.83	8.19	3.12	7.83
9	220.22	15.68	1.05	6.35	1.66	8.87	1.93	7.84
10	220.44	16.85	0.57	6.72	0.74	9.66	0.87	8.35

Current	Winter		to Spring			
Grade	Mean	SD	Mean	SD		
K	151.33	12.73	6.81	5.46		
1	171.53	13.54	5.99	5.46		
2	184.17	14.98	4.52	5.49		
3	195.60	15.14	3.02	5.33		
4	203.60	14.96	2.33	5.19		
5	209.83	14.65	1.97	5.21		
6	214.21	14.53	1.54	5.22		
7	216.91	14.98	1.25	5.20		
8	219.09	15.37	0.99	5.49		
9	221.27	15.54	0.60	5.68		
10	221.01	16.70	0.17	5.91		

Table B.4: School Reading Growth Norms

Current Grade	Status		Growth		Growth		Growth	
	Last Win	Mean	SD	to Winter	Mean	SD	Mean	SD
1	151.82	6.56	19.71	2.68				
2	171.67	6.72	12.50	2.07				
3	183.80	6.65	11.81	1.63				
4	195.30	6.59	8.30	1.38				
5	203.32	6.50	6.50	1.39				
6	209.60	6.50	4.61	1.73				
7	212.94	6.82	3.97	1.54				
8	215.56	7.31	3.53	1.76				
9	219.37	7.27	1.90	2.19				
10	219.06	8.49	1.95	2.11				

Current Grade	Last Spr		to Spring	
	Mean	SD	Mean	SD
1	158.76	7.62	18.76	3.04
2	177.75	7.44	10.94	2.53
3	188.15	6.85	10.47	1.95
4	198.39	6.80	7.54	1.74
5	205.83	6.63	5.96	1.80
6	211.55	6.80	4.20	2.20
7	214.33	7.16	3.83	2.09
8	216.99	7.36	3.09	2.24
9	220.40	7.59	1.48	2.75
10	219.47	8.84	1.72	2.94

Current Grade	Fall		To Winter		To Spring		To Next Fall	
	Mean	SD	Mean	SD	Mean	SD	Mean	SD
K	141.05	6.03	10.28	1.73	17.10	3.02	21.48	3.88
1	160.70	5.82	10.84	1.59	16.82	2.79	14.02	3.58
2	174.72	6.40	9.45	1.43	13.97	2.50	13.65	2.43
3	188.29	6.70	7.31	1.17	10.33	2.05	9.92	2.05
4	198.16	6.49	5.43	0.96	7.76	1.68	7.43	1.56
5	205.68	6.27	4.15	1.02	6.11	1.78	5.45	1.59
6	210.99	6.31	3.22	1.10	4.76	1.92	4.62	1.84
7	214.45	6.57	2.46	1.05	3.71	1.83	3.93	1.67
8	217.24	7.47	1.85	1.29	2.83	2.25	3.12	1.99
9	220.22	7.13	1.05	1.33	1.66	2.32	1.93	2.18
10	220.44	8.19	0.57	1.59	0.74	2.78	0.87	2.27

Current Grade	Winter		to Spring	
	Mean	SD	Mean	SD
K	151.33	5.76	6.81	1.29
1	171.53	6.17	5.99	1.20
2	184.17	6.49	4.52	1.07
3	195.60	6.59	3.02	0.88
4	203.60	6.43	2.33	0.72
5	209.83	6.23	1.97	0.77
6	214.21	6.31	1.54	0.82
7	216.91	6.57	1.25	0.79
8	219.09	7.39	0.99	0.97
9	221.27	7.20	0.60	1.00
10	221.01	8.17	0.17	1.19