

2006 Hasbrouck & Tindal Oral Reading Fluency Data

Jan Hasbrouck and Gerald Tindal have completed an extensive study of oral reading fluency. The results of their study were published in a technical report entitled, "Oral Reading Fluency: 90 Years of Measurement," which is available on the University of Oregon's website, brt.uoregon.edu/tech_reports.htm, and in *The Reading Teacher* in 2006 (Hasbrouck, J. & Tindal, G. A. (2006). Oral reading fluency norms: A valuable assessment tool for reading teachers. *The Reading Teacher*. 59(7), 636-644.).

The table below shows the mean oral reading fluency of students in grades 1 through 8 as determined by Hasbrouck and Tindal's data.

You can use the information in this table to draw conclusions and make decisions about the oral reading fluency of your students. **Students scoring 10 or more words below the 50th percentile using the average score of two unpracticed readings from grade-level materials need a fluency-building program.** In addition, teachers can use the table to set the long-term fluency goals for their struggling readers.

Average weekly improvement is the average words per week growth you can expect from a student. It was calculated by subtracting the fall score from the spring score and dividing the difference by 32, the typical number of weeks between the fall and spring assessments. For grade 1, since there is no fall assessment, the average weekly improvement was calculated by subtracting the winter score from the spring score and dividing the difference by 16, the typical number of weeks between the winter and spring assessments.

Grade	Percentile	Fall WCPM*	Winter WCPM*	Spring WCPM*	Avg. Weekly Improvement**
1	90		81	111	1.9
	75		47	82	2.2
	50		23	53	1.9
	25		12	28	1.0
	10		6	15	0.6
2	90	106	125	142	1.1
	75	79	100	117	1.2
	50	51	72	89	1.2
	25	25	42	61	1.1
	10	11	18	31	0.6

*WCPM = Words Correct Per Minute

Grade	Percentile	Fall WCPM*	Winter WCPM*	Spring WCPM*	Avg. Weekly Improvement**
3	90	128	146	162	1.1
	75	99	120	137	1.2
	50	71	92	107	1.1
	25	44	62	78	1.1
	10	21	36	48	0.8
4	90	145	166	180	1.1
	75	119	139	152	1.0
	50	94	112	123	0.9
	25	68	87	98	0.9
	10	45	61	72	0.8
5	90	166	182	194	0.9
	75	139	156	168	0.9
	50	110	127	139	0.9
	25	85	99	109	0.8
	10	61	74	83	0.7
6	90	177	195	204	0.8
	75	153	167	177	0.8
	50	127	140	150	0.7
	25	98	111	122	0.8
	10	68	82	93	0.8
7	90	180	192	202	0.7
	75	156	165	177	0.7
	50	128	136	150	0.7
	25	102	109	123	0.7
	10	79	88	98	0.6
8	90	185	199	199	0.4
	75	161	173	177	0.5
	50	133	146	151	0.6
	25	106	115	124	0.6
	10	77	84	97	0.6

**Average words per week growth

Dudley, A. (2005). Rethinking Reading Fluency for Struggling Adolescent Readers. Beyond Behavior. [Based on AIMSweb]

Table 1 AIMSWeb Growth Table: Reading-Curriculum-Based Measurement, Multiyear Aggregate

Grade	Percentile	Fall		Winter		Spring		ROI
		No.	WRC	No.	WRC	No.	WRC	
1	90	6087	42	28842	74	30511	104	1.7
	75		19		44		78	1.6
	50		7		23		50	1.2
	25		2		12		27	0.7
	10		0		6		14	0.4
	Mean		16		33		55	1.1
	SD		23		30		36	
2	90	25620	100	27649	126	28226	143	1.2
	75		75		101		117	1.2
	50		51		75		91	1.1
	25		24		50		67	1.2
	10		13		24		39	0.7
	Mean		54		76		91	1.1
	SD		34		38		40	
3	90	23857	130	26420	147	27101	163	0.9
	75		102		122		138	1
	50		75		94		110	1
	25		47		65		81	0.9
	10		28		39		51	0.6
	Mean		77		94		109	0.9
	SD		39		41		43	
4	90	21877	148	23067	167	23886	183	1
	75		122		140		154	0.9
	50		98		113		125	0.8
	25		72		89		100	0.8
	10		47		62		72	0.7
	Mean		98		114		127	0.8
	SD		40		42		44	
5	90	20920	168	22038	182	22869	198	0.8
	75		140		156		171	0.9
	50		111		126		140	0.8
	25		84		98		108	0.7
	10		59		73		81	0.6
	Mean		113		127		139	0.7
	SD		45		44		46	
6	90	15236	181	15584	198	16954	211	0.8
	75		156		170		183	0.7
	50		131		144		155	0.7
	25		101		113		125	0.7
	10		70		83		94	0.7
	Mean		128		141		153	0.7
	SD		44		45		46	
7	90	8187	184	7479	197	9526	208	0.7
	75		158		170		182	0.7
	50		131		140		154	0.6
	25		104		114		125	0.6
	10		81		89		99	0.5
	Mean		131		141		153	0.6
	SD		41		43		43	
8	90	6233	185	6027	194	7740	200	0.4
	75		163		171		180	0.5
	50		140		148		156	0.4
	25		109		117		129	0.6
	10		78		86		98	0.6
	Mean		135		143		153	0.5
	SD		42		43		41	

Note. No., number of students; WRC, words read correctly; ROI, rate of improvement. The ROI is obtained by subtracting the fall score from the spring or winter score and then dividing by 36 or 18 weeks, respectively.

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