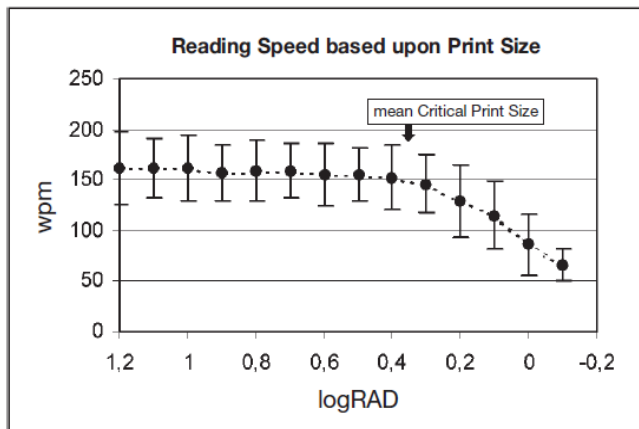


## Reading Speed Based Upon Print Size (logRAD):

The reading performance of single patients or patient groups can be graphically represented by the reading speed based upon print size (see Figure 1).



**Figure 1:**  
Example of a graph showing the reading speed based upon print size (40 patients)

## VAS – Visual Acuity Score

While the logRAD(MAR) score rates visual acuity, the VAS scale rates visual ability. With a similar scale for visual fields, it is used in the Guides to the Evaluation of Permanent Impairment of the American Medical Association to calculate a Functional Vision Score (FVS) and a Visual Impairment Rating.

VAS (for reading ability):  $= 100 - 50 \times \logRAD(\text{MAR})$

20/20	VAS = 100	logRAD(MAR) = 0.0
20/200	VAS = 50	logRAD(MAR) = 1.0
20/2000	VAS = 0	logRAD(MAR) = 2.0

**Table 1:**  
Reading Speed:

sec.	w/min	sec.	w/min	sec.	w/min	sec.	w/min	sec.	w/min	sec.	w/min
3.0	280	4.0	210	6.0	140	8.0	105	10.0	84	18.0	47
3.1	271	4.2	200	6.2	135	8.2	102	10.5	80	19.0	44
3.2	263	4.4	191	6.4	131	8.4	100	11.0	76	20.0	42
3.3	255	4.6	183	6.6	127	8.6	98	11.5	73	21.0	40
3.4	247	4.8	175	6.8	124	8.8	95	12.0	70	22.0	38
3.5	240	5.0	168	7.0	120	9.0	93	13.0	65	23.0	37
3.6	233	5.2	162	7.2	117	9.2	91	14.0	60	25.0	34
3.7	227	5.4	156	7.4	114	9.4	89	15.0	56	27.0	31
3.8	221	5.6	150	7.6	111	9.6	88	16.0	53	29.0	29
3.9	215	5.8	145	7.8	108	9.8	86	17.0	49	30.0	28

**Table 2:**  
Correction Values for Different Reading Distances (logRAD):

Reading Distance cm	logRAD correction	Reading Distance cm	logRAD correction	Reading Distance cm	logRAD correction
50 cm	- 0,1	32 cm	+0,1	16 cm	+0,4
45 cm	- 0,05	28 cm	+0,15	13 cm	+0,5
40 cm	+0,00	25 cm	+0,2	10 cm	+0,6
36 cm	+0,05	20 cm	+0,3	8 cm	+0,7