# An Analysis of Norms for Early Reading CBMs

NCME – 2014 Philadelphia, PA Tindal, Saven, Nese, (Anderson & Betts)



### **Our Querr Lingo**

When the English Tongue we speak Why is *break* not rimed with *freak?* Will you tell me why it's true We say *sew*, but likewise *few?* And the maker of a verse Cannot rime his *horse* with *worse?* Beard sounds not the same as heard;

Cord is different from word; Cow is cow but low is low; Shoe is never rimed with foe. Think of hose and dose and lose; And think of goose and yet of choose.

Think of *comb* and *tomb* and *bomb*, *Doll* and *roll* and *home* and *some*. And since *pay* is rimed with *say* Why not *paid* with *said*, I pray? Think of *blood* and *food* and *good*; *Mould* is not pronounced like *could*. Wherefore *done*, but *gone* and *lone* 

Is there any reason known?
To sum up all, it seems to me
Sounds and letters don't agree.

#### **Anonymous**



### A nod to Mark Twain

"What is needed is that each letter of the alphabet shall have a perfectly definite sound, and that this sound shall never be changed or modified without the addition of an accent, or other visible sound...But the English alphabet is pure insanity. It can hardly spell any word in the language with any degree of certainty" (Twain, 1942, pp. 168-169)

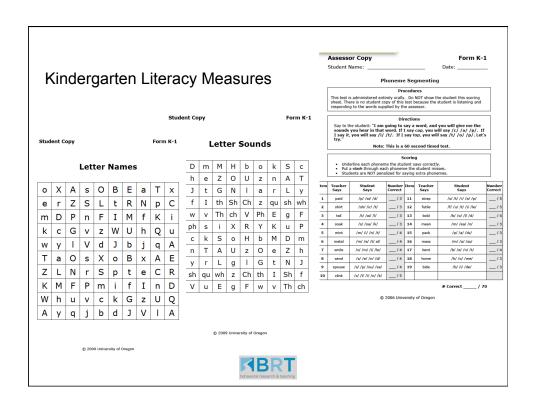


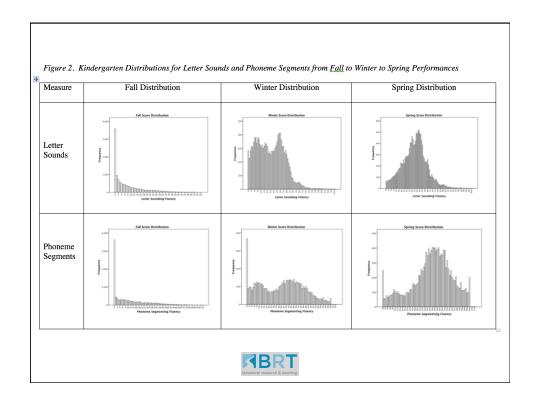
## Executive Numbered Memo: 010-2012-13 – OAR 581-022-2130 - Kindergarten Assessment

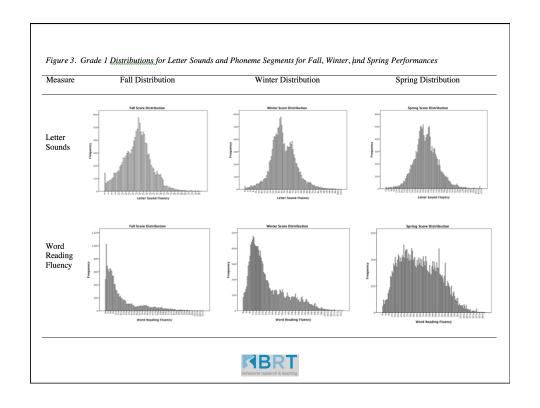
In 2012, the Legislature directed the Early Learning Council and the Department of Education...

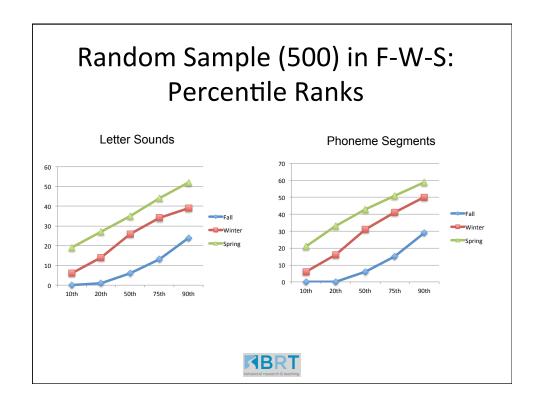
- Arriving at kindergarten ready to learn?
- Is their level of school readiness improving or declining over time?
- Are there disparities (geographical, cultural, racial, and socio-economic) between groups of children that must be addressed?
- Are there particular areas of school readiness that Oregon must target?
- What children need to know and are able to do upon entering kindergarten.











## Letter Names (LN): Stratified Random Sample (500)

Region	N	Ave	SD
MW	500	25.0	15.7
NE	500	22.8	14.3
SE	500	27.3	16.7
w	500	19.2	15.0

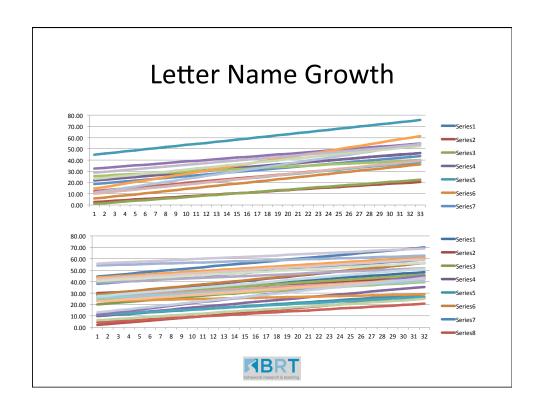
Students	N	Ave	SD
White Females	500	21.0	14.2
White Males	500	19.2	14.9
Non White Females	500	13.8	13.7
Non White Males	500	14.7	15.6

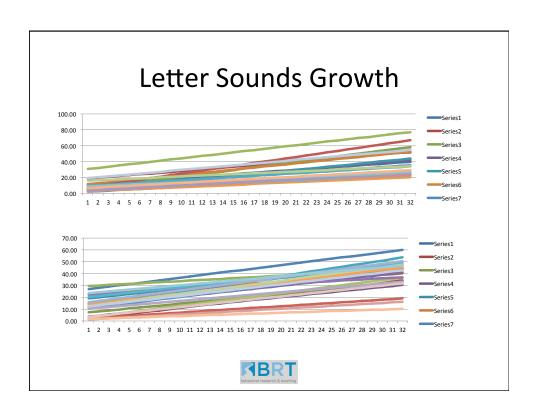


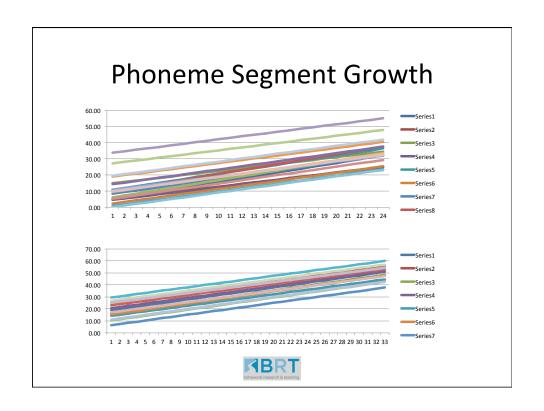
## LN for Risk (Fall): Percentile Ranks (500)

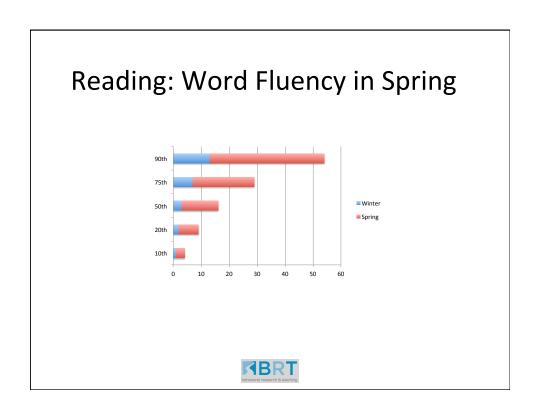
ı	Region	5 <sup>th</sup> PR	10 <sup>th</sup> PR	15 <sup>th</sup> PR	20 <sup>th</sup> PR	25 <sup>th</sup> PR	30 <sup>th</sup> PR	50 <sup>th</sup> PR	75 <sup>th</sup> PR	90 <sup>th</sup> PR
1	MW	2	3	5	8	11	14	25	35	45
ı	NE	2	4	7	8	11	13	23	33	42
9	SE	0	3	6	9	14	17	29	39	46
١	w	0	2	3	5	8	8	17	31	44
I	MEDIAN		3			11		24	34	45

Students	5 <sup>th</sup> PR	10 <sup>th</sup> PR	15 <sup>th</sup> PR	20 <sup>th</sup> PR	25 <sup>th</sup> PR	30 <sup>th</sup> PR	50 <sup>th</sup> PR	75 <sup>th</sup> PR	90 <sup>th</sup> PR
White Females	1	3	5	7	8	10	20	32	41
White Males	1	2	4	5	7	8	15	29	39
Non White Females	0	0	1	2	3	4	9	22	36
Non White Males	0	0	1	2	2	3	9	25	38
MEDIAN		1			5		12	27	39









## Variance of Four Models

			Adj. R		Change Statistics						
Model	R	R Square	Square	SEE	R Sq Change	F Change	df1	df2			
1	.062ª	.004	.004	12.987	.004	16.719	2	8744			
2	.487b	.238	.237	11.363	.234	1339.996	2	8742			
3	.537°	.288	.288	10.980	.051	621.220	1	8741			
4	.718 <sup>d</sup>	.515	.515	9.060	.227	2049.782	2	8739			
	1 2 3	Model R 1 .062 <sup>a</sup> 2 .487 <sup>b</sup> 3 .537 <sup>c</sup>	Model R R Square  1 .062a .004  2 .487b .238  3 .537c .288	Adj. R  Model R R Square Square  1 .062a .004 .004  2 .487b .238 .237  3 .537c .288 .288	Adj. R  Model R R Square Square SEE  1 .062a .004 .004 12.987  2 .487b .238 .237 11.363  3 .537c .288 .288 10.980	Model         R         R Square         Square         SEE         R Sq Change           1         .062a         .004         .004         12.987         .004           2         .487b         .238         .237         11.363         .234           3         .537c         .288         .288         10.980         .051	Model         R         R Square         Square         SEE         R Sq Change         F Change           1         .062°         .004         .004         12.987         .004         16.719           2         .487°         .238         .237         11.363         .234         1339.996           3         .537°         .288         .288         10.980         .051         621.220	Model         R         R Square         Square         SEE         R Sq Change         F Change         df1           1         .062a         .004         .004         12.987         .004         16.719         2           2         .487b         .238         .237         11.363         .234         1339.996         2           3         .537c         .288         .288         10.980         .051         621.220         1			

- a. Predictors: (Constant), Gender and Race
- b. Predictors: (Constant), Gender and Race, Centered LS Slope, Centered PS slope
- c. Predictors: (Constant), Gender and Race, Centered LS Slope, Centered PS slope, LN risk
- d. Predictors: (Constant), Gender and Race, <u>Centered</u> LS Slope, Centered PS slope, LN risk, Centered LS Intercept, Centered PS Intercept



			Unstd. Co	efficients	Std. Coefficient			Correla Zero-	ations
	Mo	odel	В	SE	Beta	ţ	Sig.	order	Partial
	1	(Constant)	16.544	0.235		70.408	< .001		
		Gender	-1.390	0.278	-0.053	-5.001	< .001	053	053
		Race	-0.825	0.280	-0.031	-2.946	.003	031	031
	2	(Constant)	15.450	0.208		74.419	< .001		
		Gender	0.019	0.245	0.001	0.079	.937	053	.001
		Race	0.010	0.248	0.000	0.039	.969	031	.000
		Centered LS slope	-0.967	0.037	-0.280	-25.858	< .001	422	267
		Centered PS slope	-1.544	0.060	-0.283	-25.803	< .001	423	266
	3	(Constant)	17.124	0.212		80.942	< .001		
Comparison		Gender	0.012	0.237	0.000	0.049	.961	053	.001
Comparison		Race	0.347	0.240	0.013	1.448	.148	031	.015
of Predictors		Centered LS slope	-0.896	0.036	-0.259	-24.697	< .001	422	255
or redictors		Centered PS slope	-1.249	0.059	-0.229	-21.148	< .001	423	221
		LN risk	-6.977	0.280	-0.235	-24.924	< .001	351	258
	4	(Constant)	15.591	0.177		88.323	< .001		
		Gender	.0108	0.195	0.004	0.554	.579	053	.00€
		Race	-0.680	0.200	-0.026	-3.398	< .001	031	036
		Centered LS slope	-0.662	0.031	-0.192	-21.158	< .001	422	221
		Centered PS slope	0.728	0.150	0.133	4.854	< .001	423	.052
		LN risk	0.438	0.258	0.015	1.694	.090	351	.018
		Centered LS intercept	-1.161	0.020	-0.595	-56.731	< .001	694	519
		Centered PS intercept	-0.374	0.060	-0.175	-6.245	< .001	470	067

## For More Information

http://www.brtprojects.org

http://easyCBM.com

http://ncaase.com



