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.



Assessor Copy

Student Name:

Form K-1

Form K-1

Date:

Phoneme Segmenting

Procedures

This test is administered entirely orally. Do NOT show the student this scoring sheet. There is no student copy of this test because the student is listening and responding to the words supplied by the assessor.

Directions

Say to the student: "I am going to say a word, and you will give me the sounds you hear in that word. If I say cap, you will say /c/ /a/ /p/. If I say it, you will say /i/ /t/. If I say top, you will say /t/ /o/ /p/. Let's try."

Note: This is a 60 second timed test.

Scoring

Underline each phoneme the student says correctly.

Put a slash through each phoneme the student misses.

Students are NOT penalized for saying extra phonemes.

item	Teacher Says	Student Says	Number Correct	Item	Teacher Says	Student Says	Number Correct
1	paid	/p/ /ai/ /d/	/3	11	strap	/s/ /t/ /r/ /a/ /p/	/5
2	shirt	/sh/ /ir/ /t/	/3	12	futile	/f/ /u/ /t/ /i/ /le/	/5
3	tail	/t/ /ai/ /l/	/3	13	bold	/b/ /o/ /l/ /d/	/4
4	soak	/s/ /oa/ /k/	/3	14	mean	/m/ /ea/ /n/	/3
5	mint	/m/ /i/ /n/ /t/	/4	15	pack	/p/ /a/ /ck/	/3
6	metal	/m/ /e/ /t/ al/	/4	16	mass	/m/ /a/ /ss/	/3
7	smile	/s/ /m/ /i/ /le/	/4	17	bent	/b/ /e/ /n/ /t/	/4
8	send	/s/ /e/ /n/ /d/	/4	18	home	/h/ /o/ /me/	/3
9	spouse	/s/ /p/ /ou/ /se/	/4	19	bide	/b/ /i/ /de/	/3
10	clink	/c/ /l/ /i/ /n/ /k/	/5				

Correct ____ / 70

© 2006 University of Oregon

Kindergarten Literacy Measures

Student Copy

Student Copy

Form K-1

Letter Sounds

Letter Names

0	Х	А	s	0	В	Е	а	Т	x
e	r	Ζ	S	L	t	R	Ν	р	С
m	D	Ρ	n	F	Ι	М	f	К	i
k	С	U	v	z	W	U	h	Q	u
w	У	—	V	d	J	b	j	q	Α
Т	а	0	s	Х	ο	В	x	Α	Е
Ζ	L	Ν	r	S	р	t	е	С	R
Κ	Μ	F	Ρ	m	i	f	Ι	n	D
W	h	u	v	С	k	G	z	U	Q
Α	У	q	j	b	d	J	V	I	Α

D	m	М	Н	b	0	k	S	с
h	e	Ζ	0	U	z	n	А	Т
J	t	G	Ν	I	а	r	L	У
f	Ι	th	Sh	Ch	z	qu	sh	wh
w	v	Th	ch	V	Ph	Е	g	F
ph	s	i	Х	R	Y	Κ	u	Ρ
с	k	S	ο	Н	b	М	D	m
n	Т	Α	U	z	0	е	Ζ	h
У	r	L	g	I	G	t	Ν	J
sh	qu	wh	z	Ch	th	Ι	Sh	f
V	u	Е	g	F	w	v	Th	ch

© 2009 University of Oregon



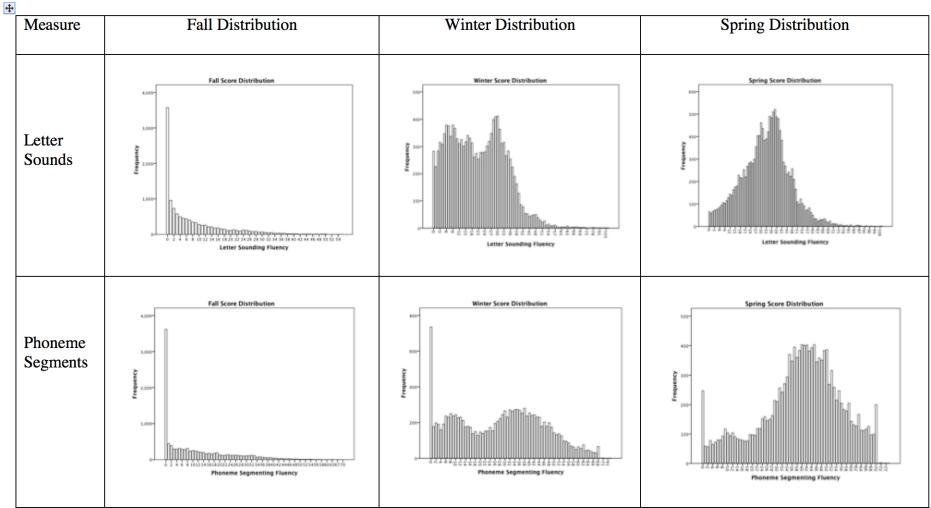


Figure 2. Kindergarten Distributions for Letter Sounds and Phoneme Segments from <u>Fall</u> to Winter to Spring Performances



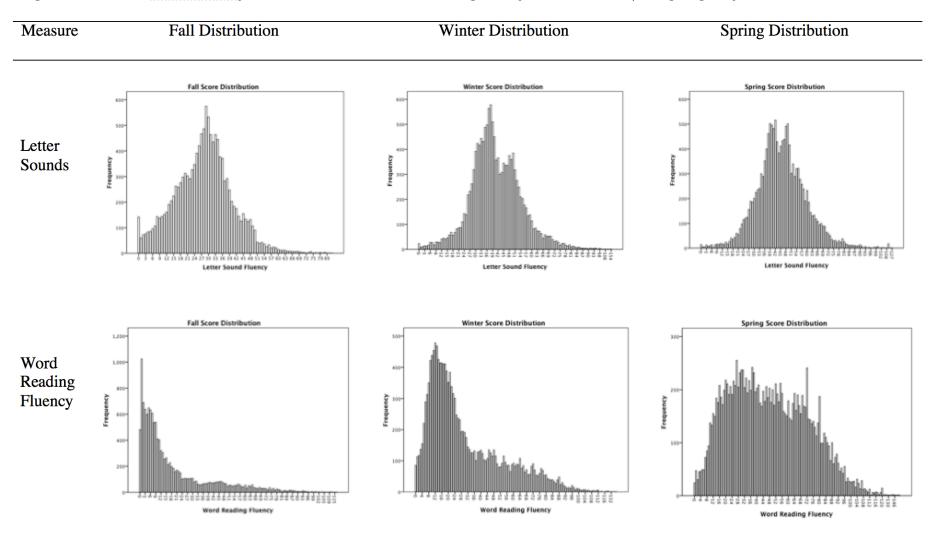


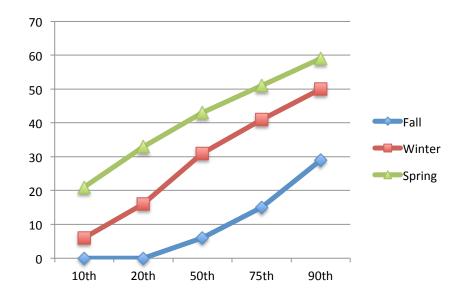
Figure 3. Grade 1 Distributions for Letter Sounds and Phoneme Segments for Fall, Winter, and Spring Performances



Random Sample (500) in F-W-S: Percentile Ranks

Letter Sounds

Phoneme Segments





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

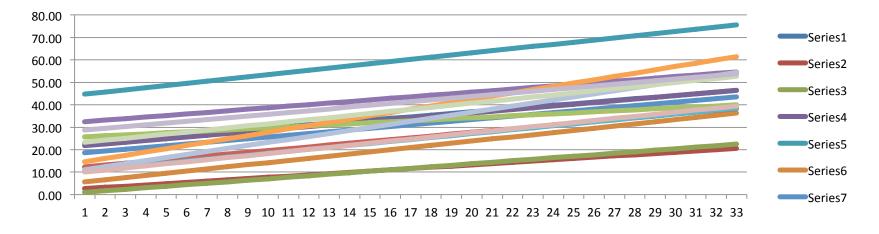


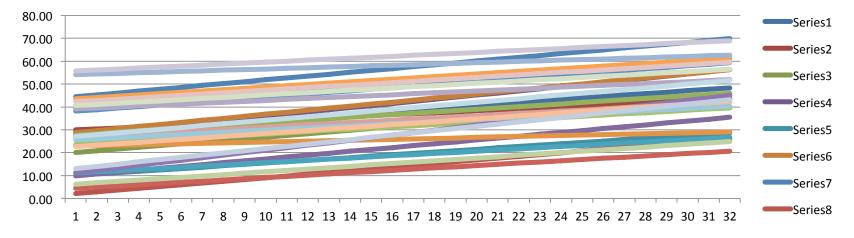
LN for Risk (Fall): Percentile Ranks (500)

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

Students	5 th PR	10 th PR	15 th PR	20 th PR	25 th PR	30 th PR	50 th PR	75 th PR	90 th 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

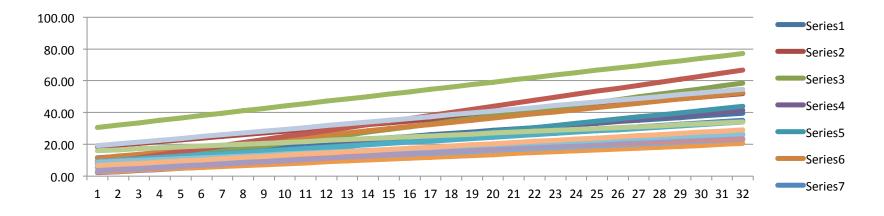
Letter Name Growth

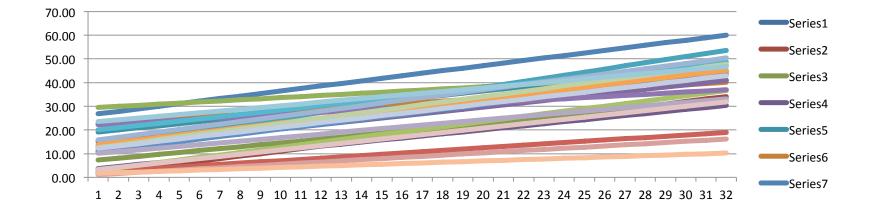






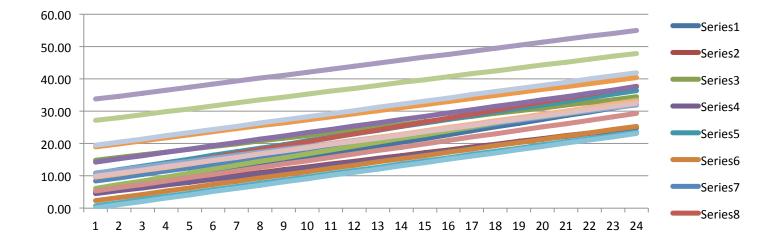
Letter Sounds Growth

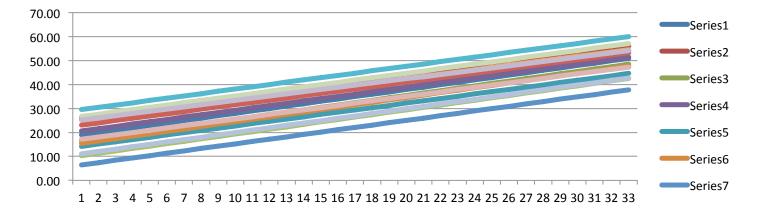






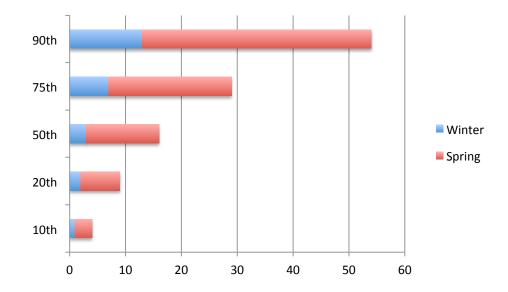
Phoneme Segment Growth







Reading: Word Fluency in Spring





Variance of Four Models

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

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



Comparison of Predictors

				Std.				
		Unstd. Coe	efficients	Coefficient			Correla	ations
							Zero-	
Mod	lel	В	SE	Beta	t	Sig.	order	Partia
1	(Constant)	16.544	0.235		70.408	< .001		
	Gender	-1.390	0.278	-0.053	-5.001	< .001	053	05
	Race	-0.825	0.280	-0.031	-2.946	.003	031	03
2	(Constant)	15.450	0.208		74.419	< .001		
	Gender	0.019	0.245	0.001	0.079	.937	053	.00
	Race	0.010	0.248	0.000	0.039	.969	031	.00
	Centered LS slope	-0.967	0.037	-0.280	-25.858	< .001	422	26
	Centered PS slope	-1.544	0.060	-0.283	-25.803	< .001	423	26
3	(Constant)	17.124	0.212		80.942	< .001		
	Gender	0.012	0.237	0.000	0.049	.961	053	.00
	Race	0.347	0.240	0.013	1.448	.148	031	.01
	Centered LS slope	-0.896	0.036	-0.259	-24.697	< .001	422	25
	Centered PS slope	-1.249	0.059	-0.229	-21.148	< .001	423	22
	LN risk	-6.977	0.280	-0.235	-24.924	< .001	351	25
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	03
	Centered LS slope	-0.662	0.031	-0.192	-21.158	< .001	422	22
	Centered PS slope	0.728	0.150	0.133	4.854	< .001	423	.05
	LN risk	0.438	0.258	0.015	1.694	.090	351	.01
	Centered LS intercept	-1.161	0.020	-0.595	-56.731	< .001	694	51
	Centered PS intercept	-0.374	0.060	-0.175	-6.245	< .001	470	06

For More Information

http://www.brtprojects.org

http://easyCBM.com

http://ncaase.com

