

Valley View Elementary Pre-K Matched Sample Analysis for Innovation Research Zone

REA

February, 2019

Matching Procedures

- The file of all Kindergarten students who attended 4 yr-old Pre-K at Valley View Elementary (VVE) were matched with students who received 4 yr-old pre-K at other sites inside or outside Bloomington. Students were matched on 6 variables.
 1. Special Education status
 2. ELL status
 3. Free/reduced price lunch
 4. Gender
 5. Ethnicity
 6. Home Language

Ties were broken with birthdates. The student closest to the birthdate of the VVE student was chosen as the best match.

42 Students were matched on all 6 variables; 5 students were matched on 5/6 variables.

Matched Comparison Student Sites for Age 4 Pre-K (n=47)

1. Early Childhood Special Education = 3
2. Other K-5 sites in Bloomington = 12
3. Pond Center in Bloomington = 14
4. Other sites outside Bloomington = 10
5. Unknown or no Pre-K = 8

Demographics by Group

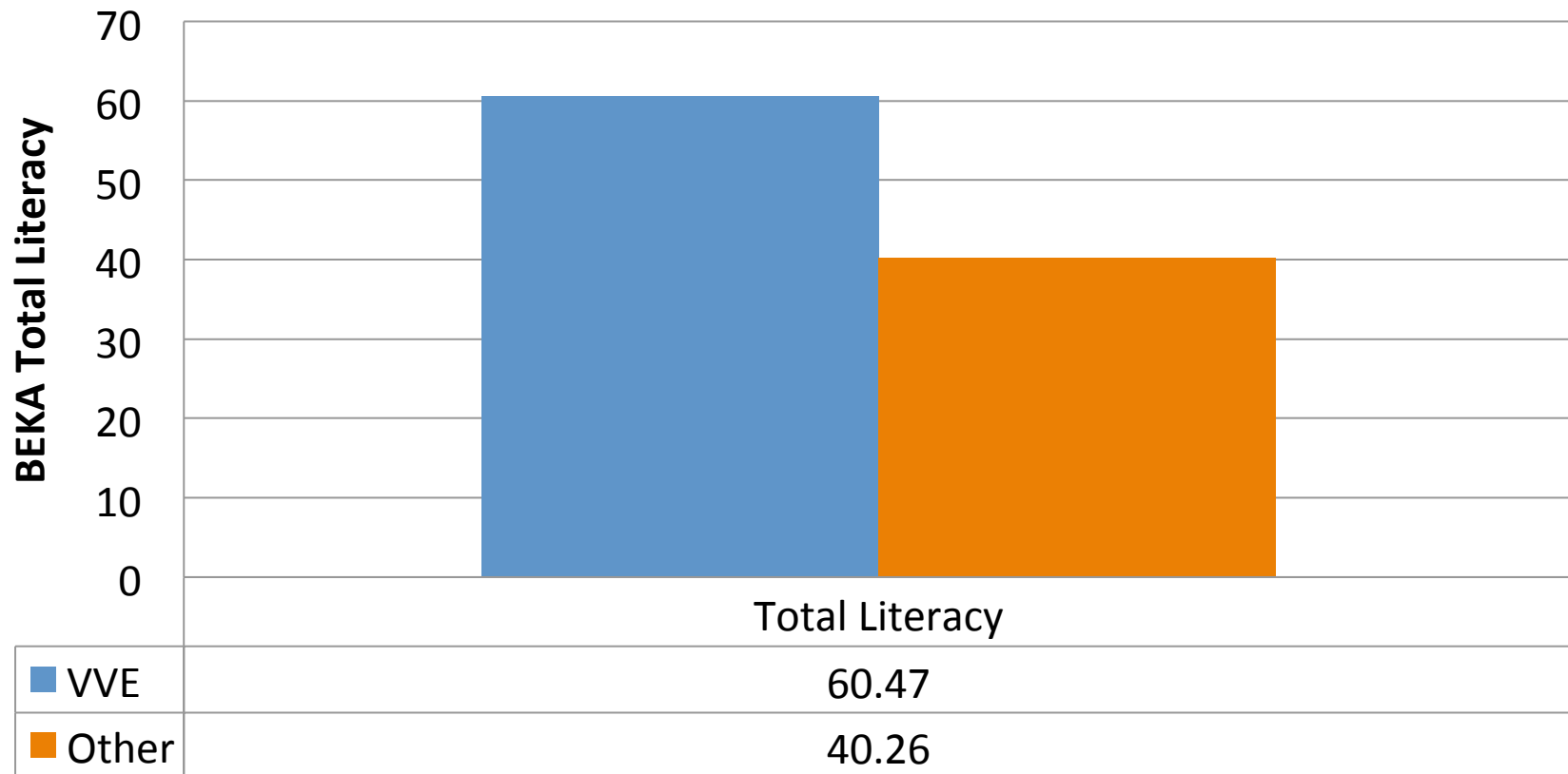
Category	VVE 4-yr old	Other 4-yr old
Special Education	25.5%	25.5%
ELL	48.9%	46.8%
Free/reduced Lunch	72.3%	74.5%
Gender (male)	40.4%	42.6%
Asian	6.4%	6.4%
Hispanic	51.1%	46.8%
African American	36.2%	38.3%
White	6.4%	8.5%

Home Languages by Group

Category	VVE 4-yr old	Other 4-yr old
English	44.7%	46.8%
Laotian	2.1%	0%
Spanish	38.3%	34.0%
Vietnamese	2.1%	4.3%
Amharic	2.1%	0%
Somali	6.4%	8.5%
Oromo	2.1%	4.3%
Other	2.1%	2.1%

Average BEKA Literacy Scores for Valley View vs. Other 4yr old Programs

Average BEKA Literacy by Program



VVE Higher Literacy Scores are Statistically Significant compared to “Other Providers”

Paired Samples Statistics

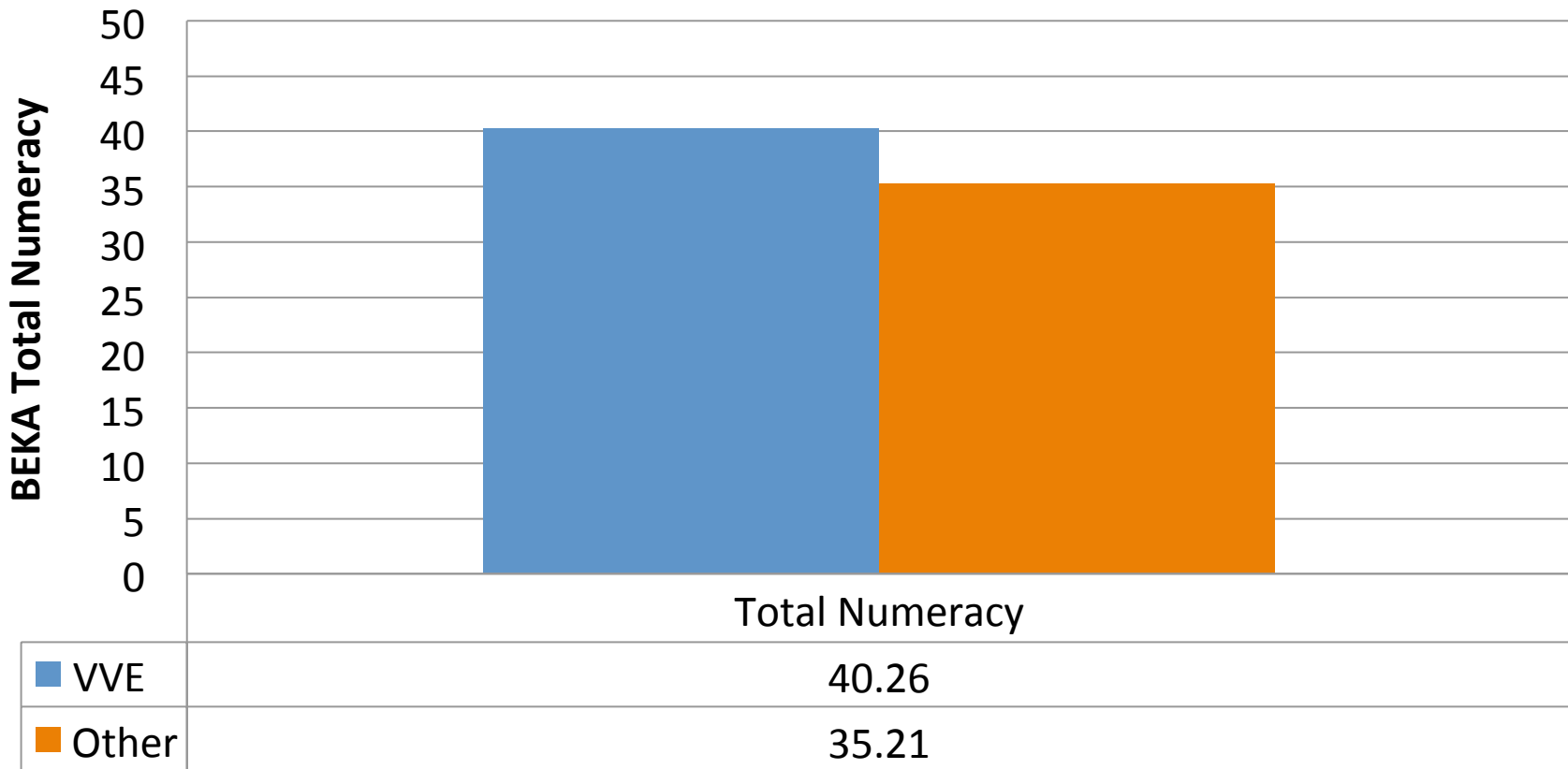
		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	VVE	60.4681	47	34.23630	4.99388
	Other	47.5106	47	33.94425	4.95128

Paired Samples Test

		Paired Differences					t	df	Sig. (2-tailed)
		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
					Lower	Upper			
Pair 1	VVE - Other	12.95745	41.96477	6.12119	.63613	25.27876	2.117	46	.040

Average BEKA Numeracy Scores for Valley View vs. Other 4yr old Programs

Average BEKA Numeracy by Program



VVE Slightly Higher Numeracy Scores are not Statistically Different from “Other Providers”

Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	WENum	40.2553	47	18.00419	2.62618
	OtherNum	35.2128	47	16.60924	2.42271

Paired Samples Test

		Paired Differences					t	df	Sig. (2-tailed)
		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
					Lower	Upper			
Pair 1	WENum - OtherNum	5.04255	19.94008	2.90856	-.81207	10.89718	1.734	46	.090