

# Slide 1

## Additive v. Multiplicative Weights--Example

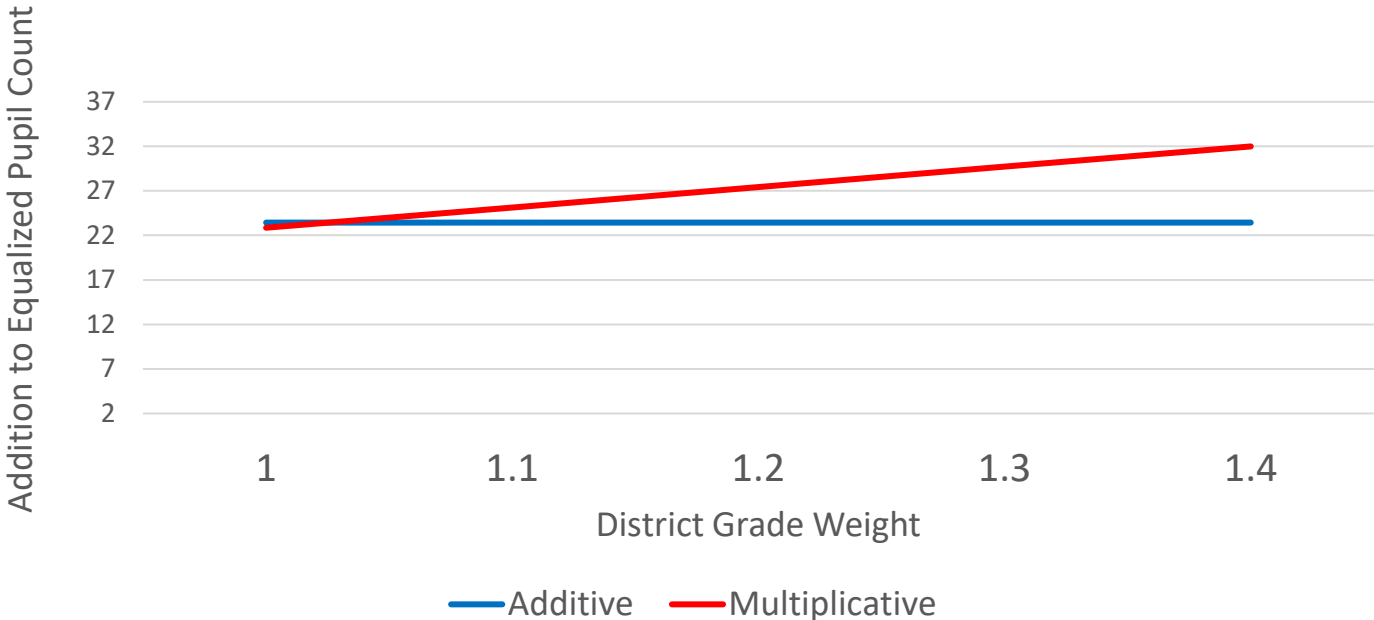
	<b>Assumptions</b>	Dist. 1 Elementary	Dist. 2 Secondary
<b>1</b>	ADM	200	200
<b>2</b>	Grade Weight	1	1.44
<b>3</b>	Poverty ADM	40	40
<b>4</b>	Poverty %	20%	20%
<b>5</b>	Poverty Weight	0.81	0.81

	<b>Additive</b>	Dist. 1 Elementary	Dist. 2 Secondary
<b>6</b>	Grade WTD (1x2)	200	288
<b>7</b>	Poverty WTD (1x4x5)	<u>32.4</u>	<u>32.4</u>
<b>8</b>	WTD Pupils (6+7)	232.4	320.4
<b>9</b>	EQ ratio	0.72	0.72
<b>10</b>	EQ pupils (8x9)	168.2	231.8

	<b>Multiplicative</b>	Dist. 1 Elementary	Dist. 2 Secondary
<b>6</b>	Grade WTD (1x2)	200	288
<b>7</b>	Poverty WTD (6x4x5)	<u>32.4</u>	<u>46.7</u>
<b>8</b>	WTD Pupils (6+7)	232.4	334.656
<b>9</b>	EQ ratio	0.71	0.71
<b>10</b>	EQ pupils (8x9)	163.9	236.1

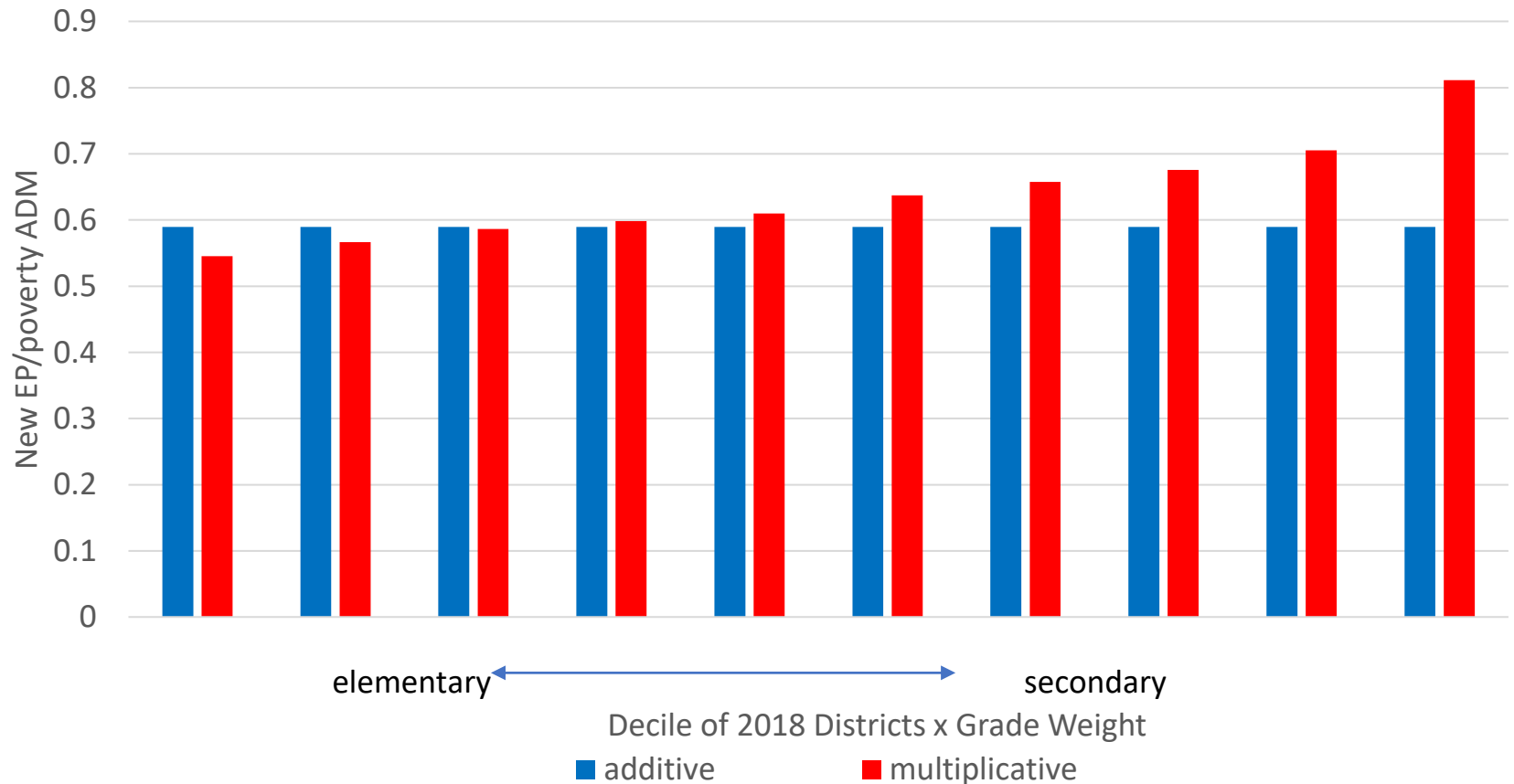
# Slide 2. Poverty Rate Addition to EQ Pupil Count Varies by Grade Weight and Additive v. Multiplicative: Conceptual

Additional equalized pupils resulting from 40 poverty ADM



### Slide 3. Poverty Rate Addition to EQ Pupil Count Varies by Grade Weight: 2018 Estimate

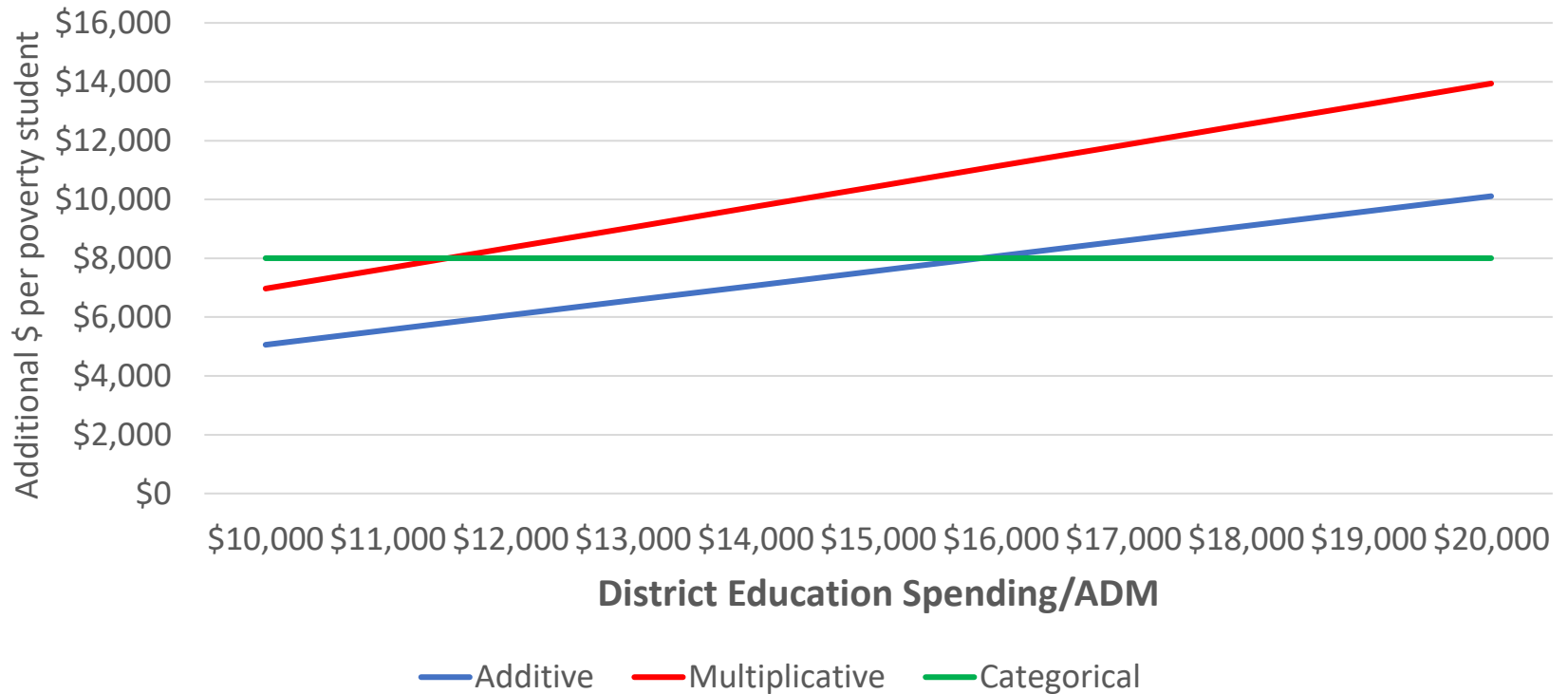
Multiplicative v Additive Poverty Weight:  
Change in EQ Pupils as % Actual Poverty Students



Slide 4.

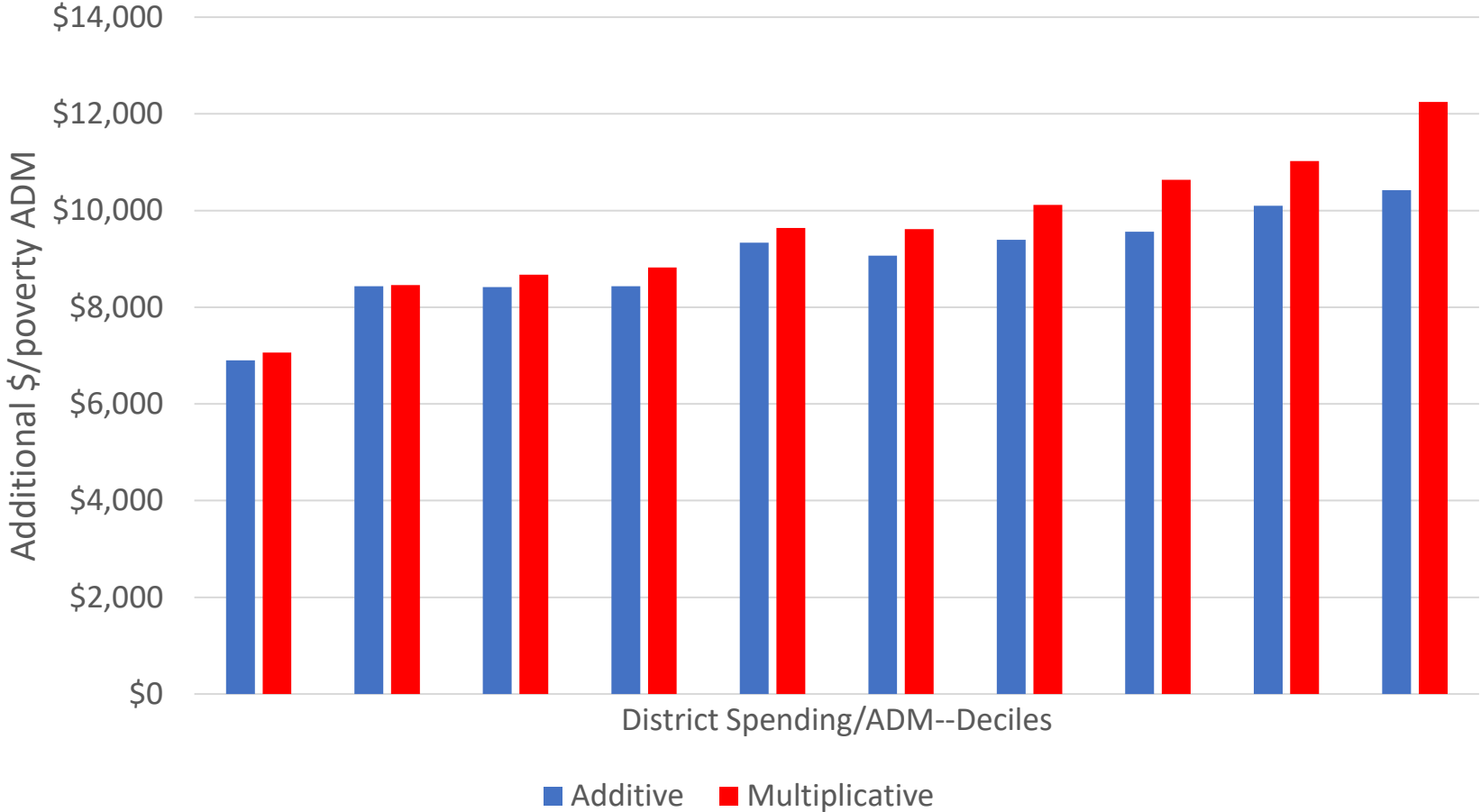
Dollars per Poverty Student Vary by District Spending and by Type of Poverty Weight

Illustration of \$/Poverty Student Under 3 Poverty Weighting options  
Holding grade weight constant at 1.4



# Slide 5. Additional Poverty Spending Varies by District Spending and Additive v Multiplicative Poverty Weight

Additional \$ per Poverty Student x District Spending/ADM



Slide 6. Application of Sample Weight Set to 2018 District Data

	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
	Weight	Cost	Pupils	Education Spending	% Education Spending
Base	1	\$11,365	87,602	\$995,566,143	74%
PK	-0.54	-\$6,137	7,622	-\$46,775,355	-3%
Middle	0.21	\$2,387	18,586	\$44,356,914	3%
High School	0.44	\$5,000	22,798	\$114,000,176	8%
Poverty	0.90	\$10,237	18,713	\$191,566,924	14%
Small School	0.22	\$2,500	3,350	\$8,375,748	1%
Sparsity 1	0.13	\$1,477	12,052	\$17,805,680	1%
Sparsity 2-3	0.06	\$682	33,533	\$22,865,450	2%