

2014-15 Assessment Results



ANDREW PARR & PARKER TEED
STATE BOARD OF EDUCATION

SEPTEMBER 10, 2015



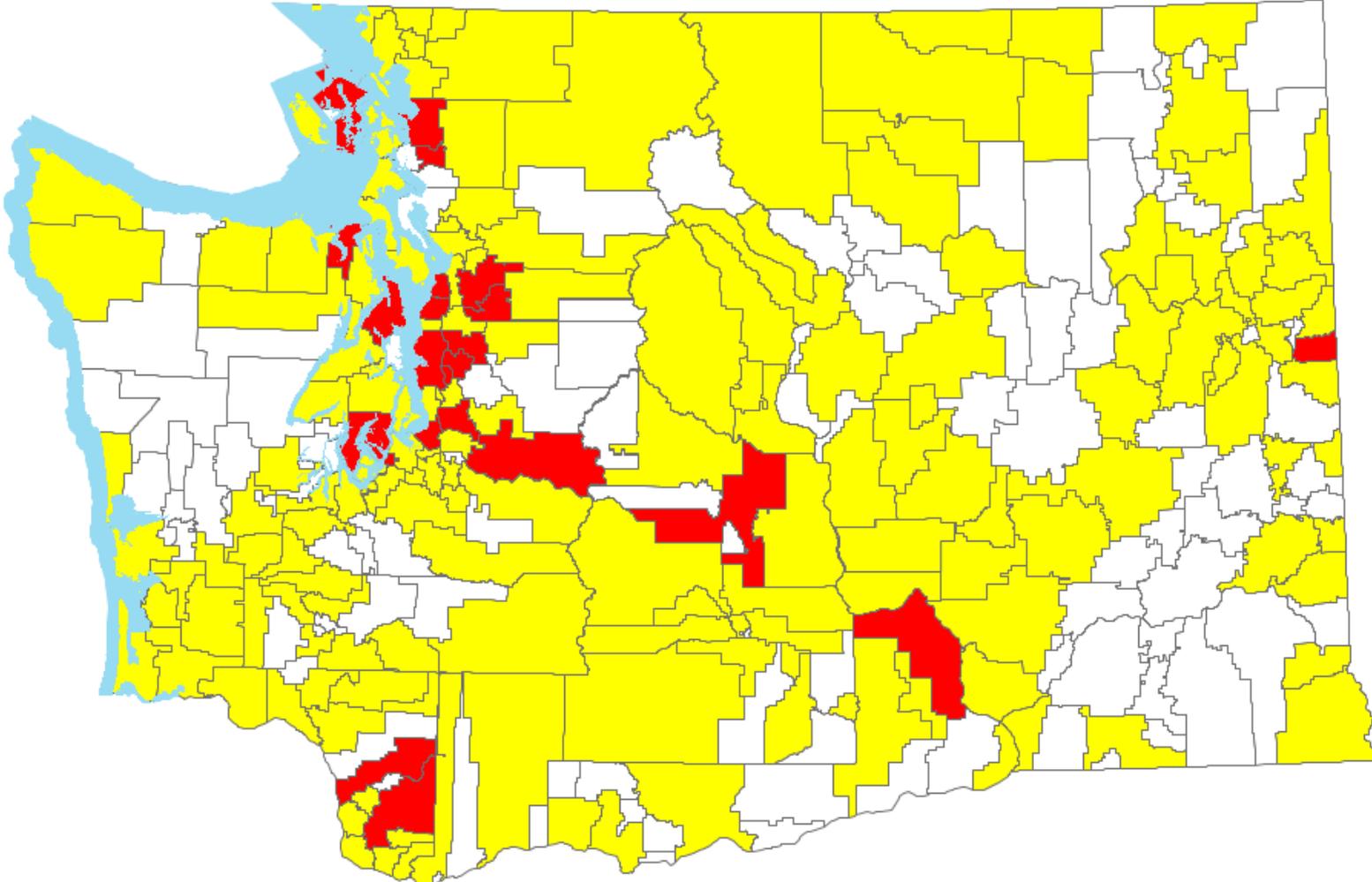
Low Statewide Participation Rates



- Three elements of an accountability ‘perfect storm’
 - ✦ New assessment system
 - ✦ Recently adopted learning standards
 - ✦ Organized opposition to testing in general, the Smarter Balanced and Common Core
- Result – an unprecedented number of schools, districts, and the state did not meet the 95 percent participation expectation.



Participation Rate on the 11th Grade Mathematics Smarter Balanced Assessment by District

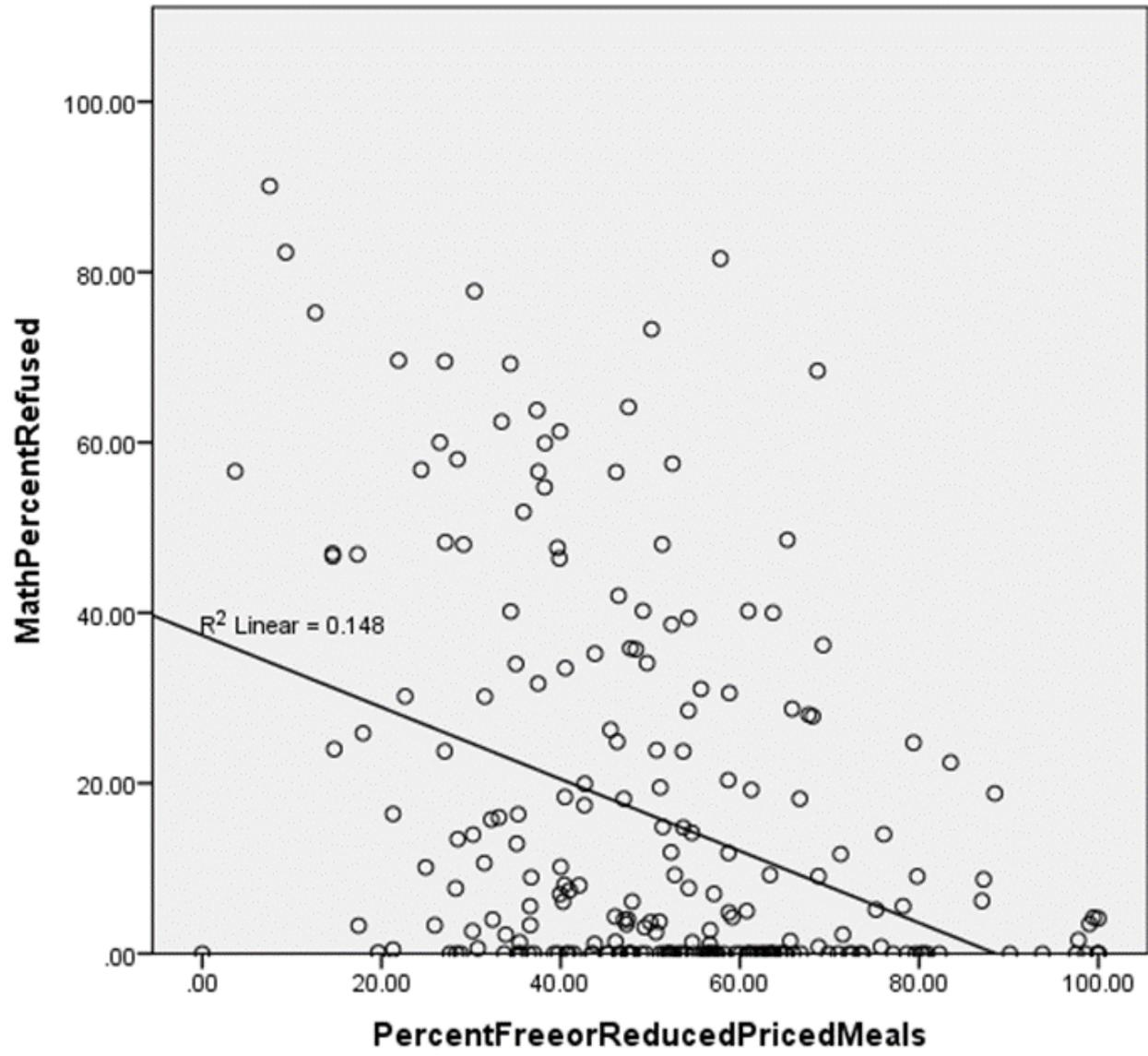


Based on OSPI data for the 11th grade math Smarter Balanced assessment, percentages have been rounded, districts with suppressed data or no high schools appear as white

95% or Higher Participation	White
30 to 94%	Yellow
Less than 30% Participation	Red



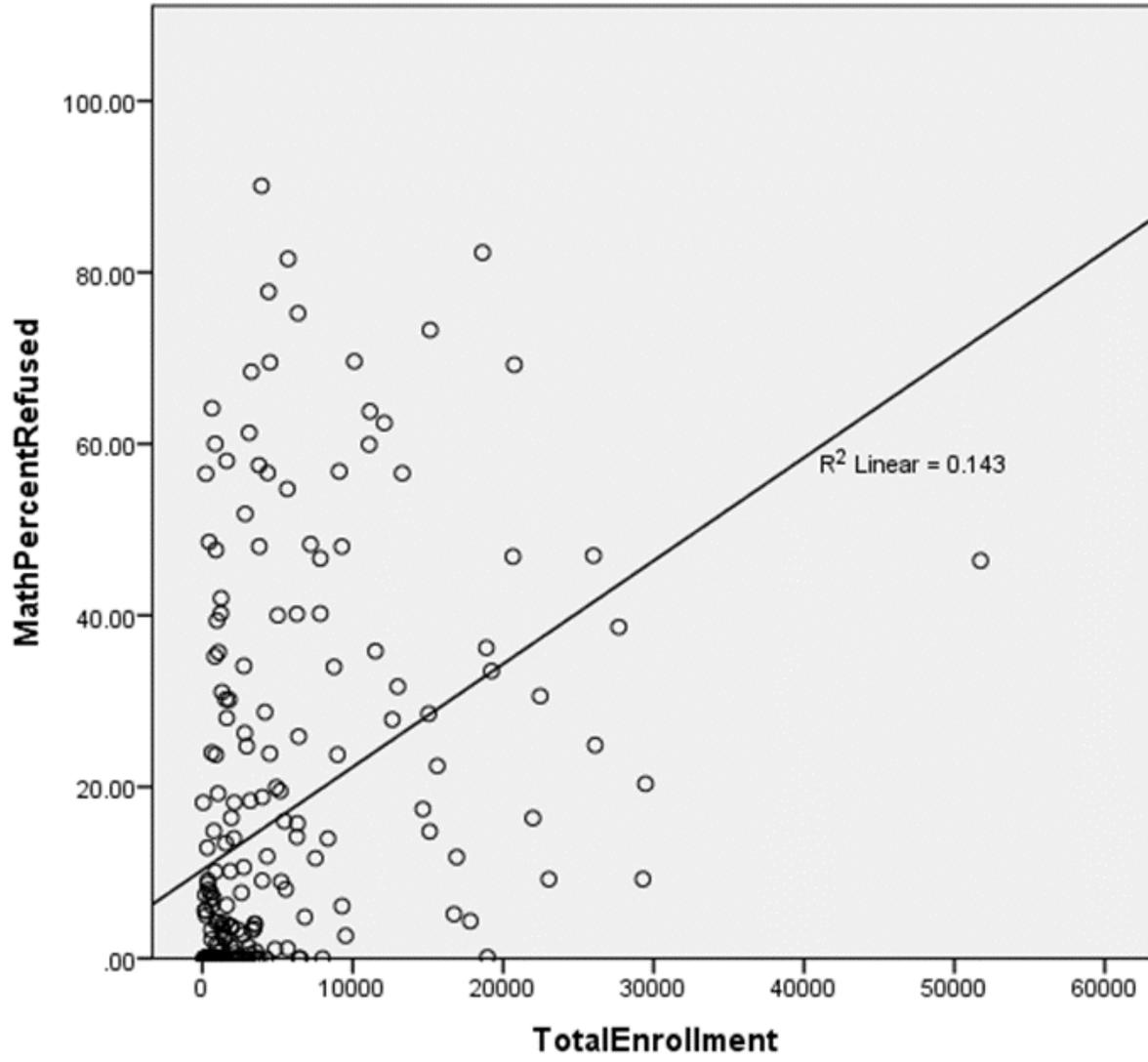
Regression shows lower poverty is predictive of higher refusal rates



Regression Based on Preliminary 11th Grade Math SBA Refusal Rates



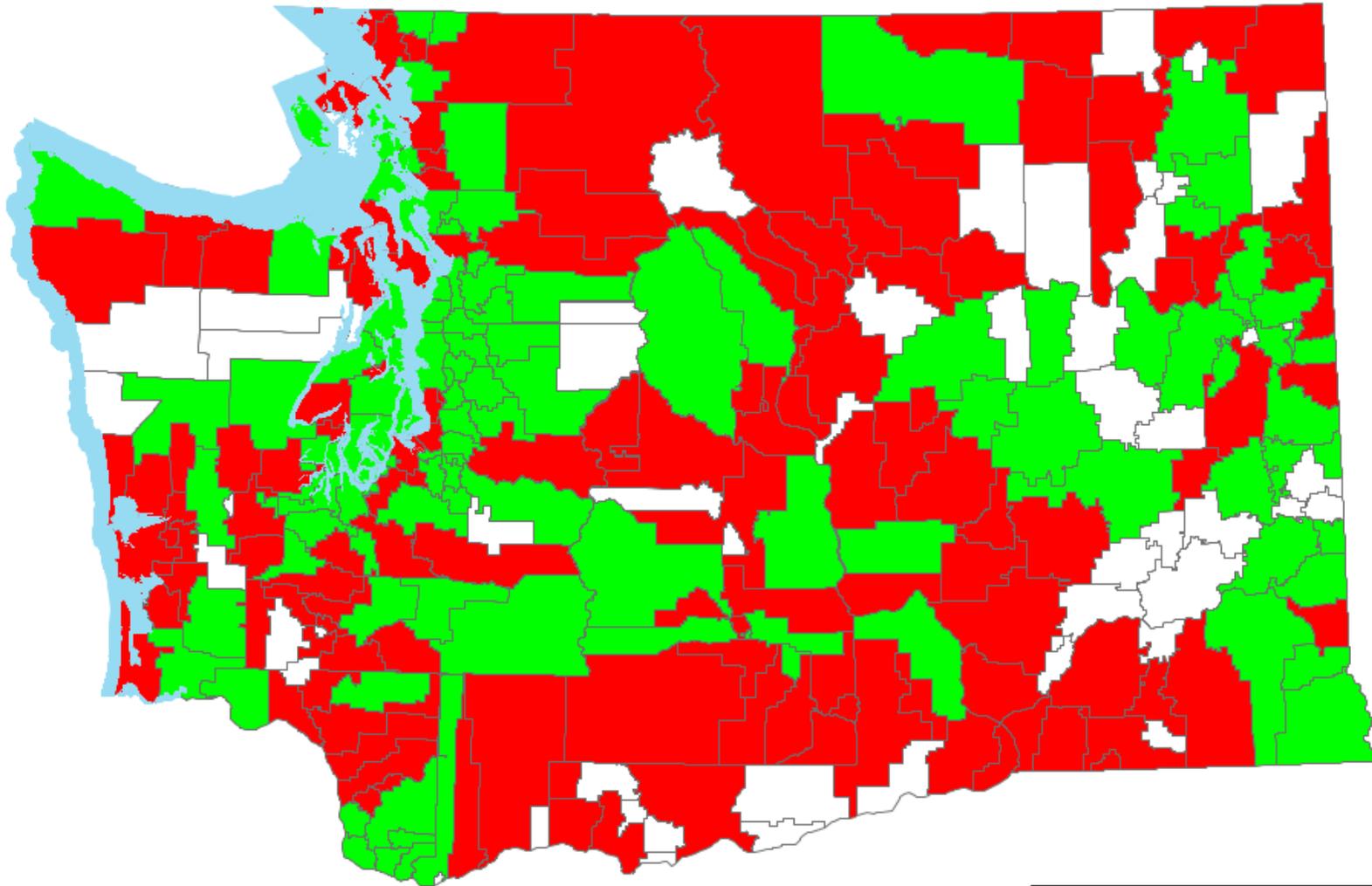
Regression also shows larger school size is predictive of higher refusal rates



Regression Based on Preliminary 11th Grade Math SBA Refusal Rates



Level Three or Four on the Fifth Grade Mathematics Smarter Balanced Assessment

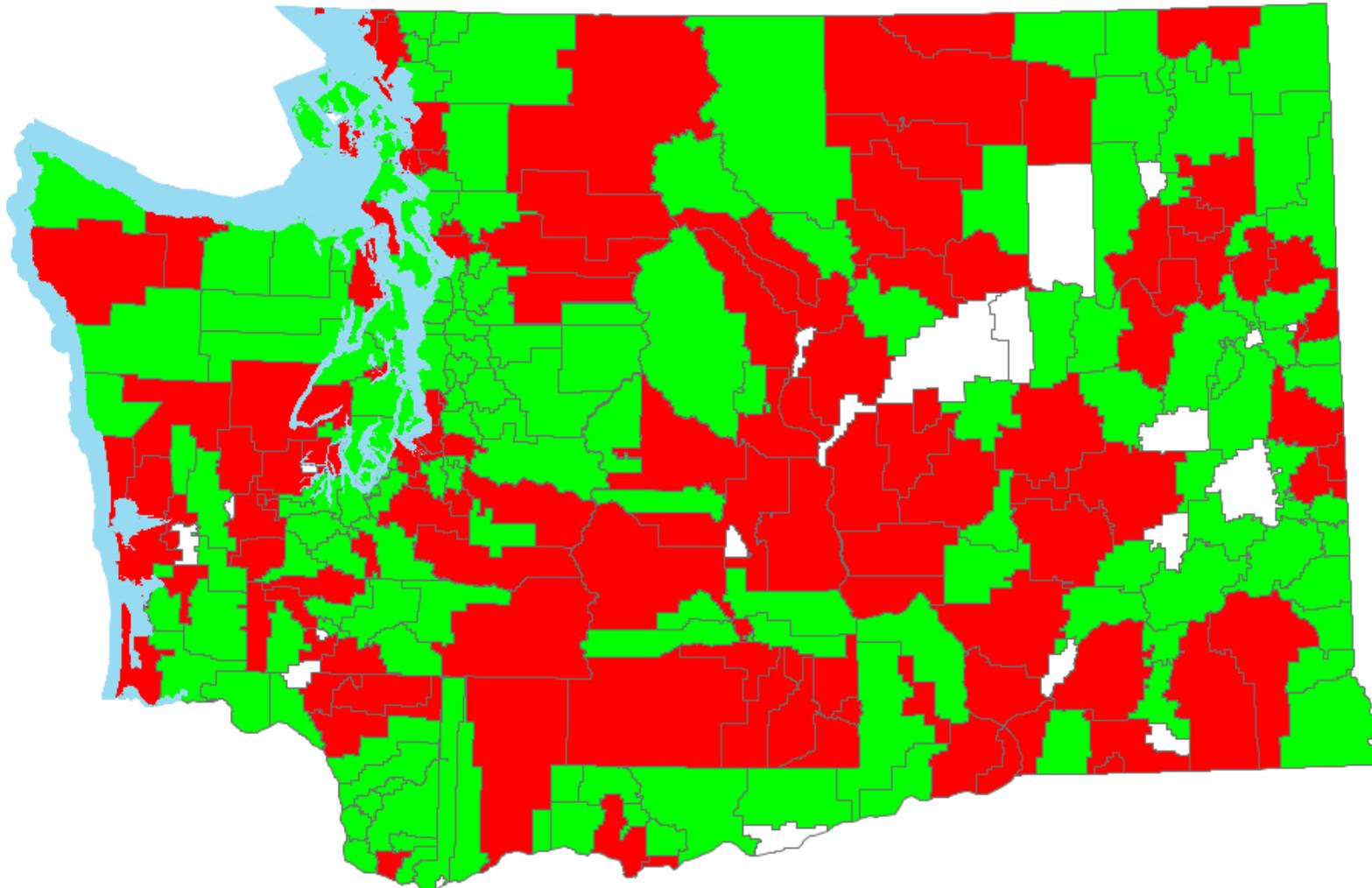


Based on OSPI data of percentage meeting standard for the fifth grade math Smarter Balanced assessment, results have been rounded, coloring cut based on consortium estimates of level three or four from the field test

No Results (Non-HS or Suppressed)	White
At or Above Field Test Est. 44%	Green
Less than 44%	Red



Level Three or Four on the Eighth Grade Mathematics Smarter Balanced Assessment

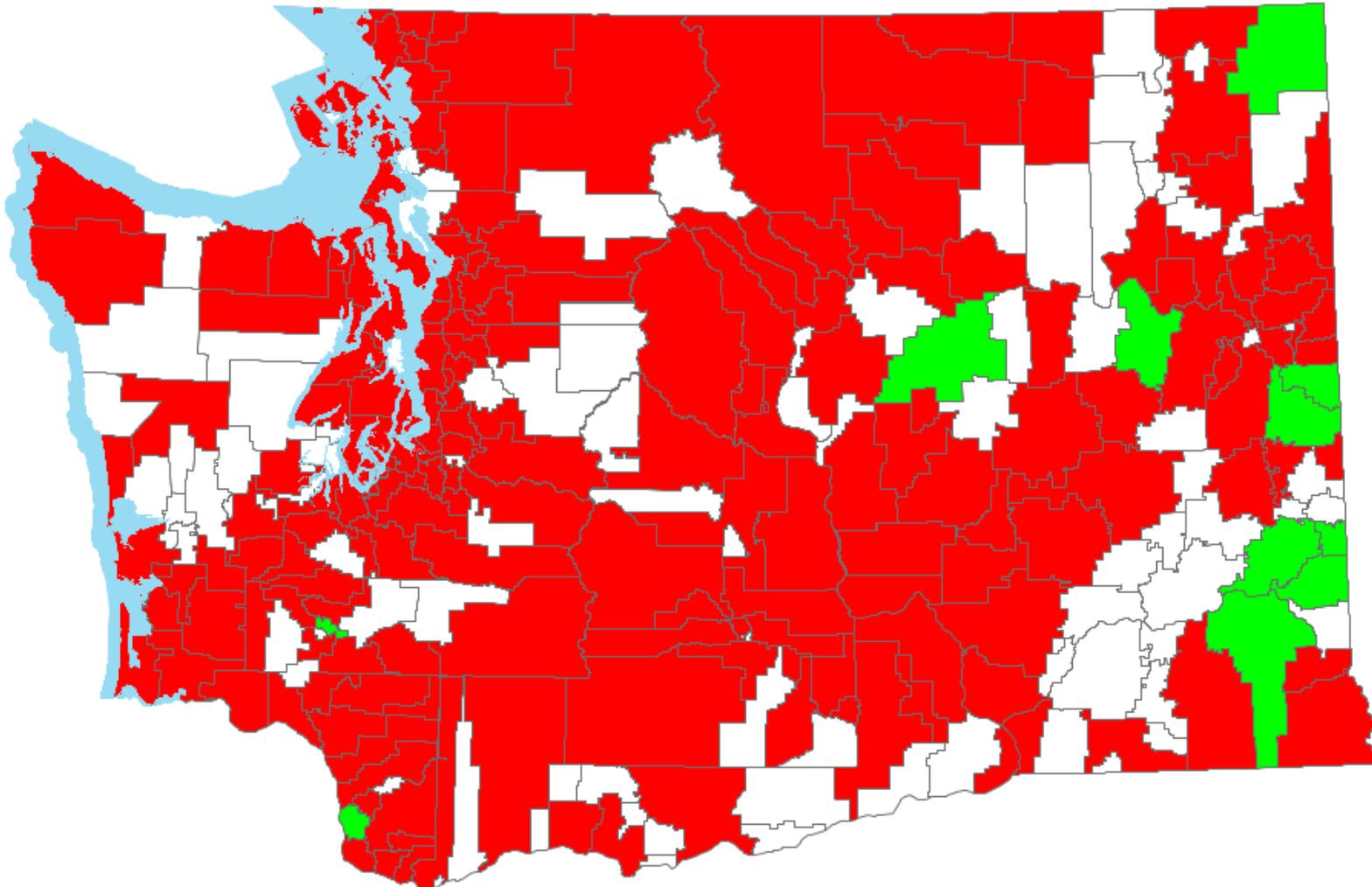


Based on OSPI data of percentage meeting standard for the eighth grade math Smarter Balanced assessment, results have been rounded, cuts for coloring based on consortium estimates of level three or four from the field test

No Results (Non-HS or Suppressed)	White
At or Above Field Test Est. 41%	Green
Less than 41%	Red



Level Three or Four on the Eleventh Grade Mathematics Smarter Balanced Assessment

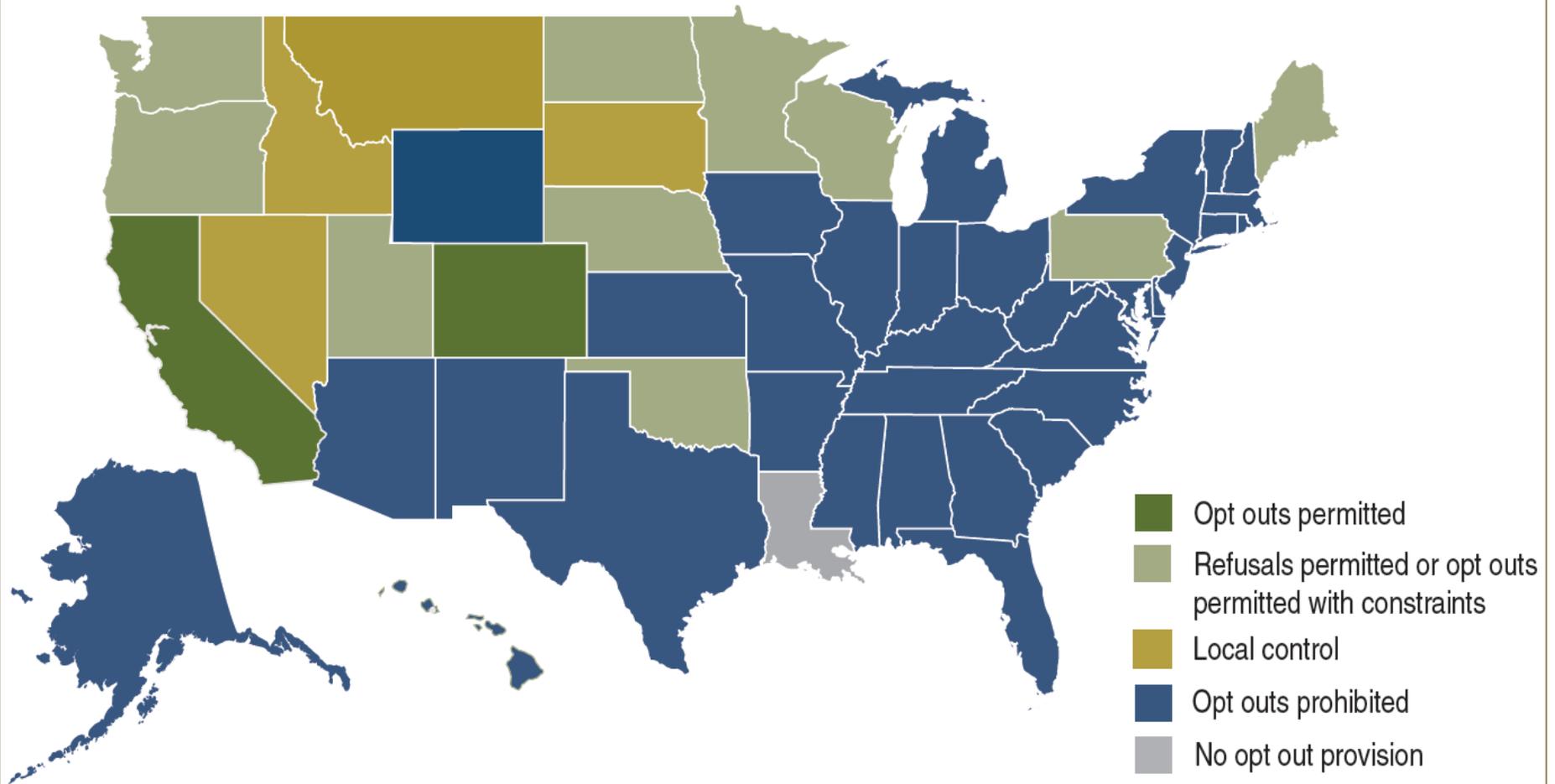


Based on OSPI data of percentage meeting standard for the eleventh grade math Smarter Balanced assessment, results have been rounded, coloring cut based on consortium estimates of level three or four from the field test

No Results (Non-HS or Suppressed)	White
At or Above Field Test Est. 41%	Green
Less than 41%	Red



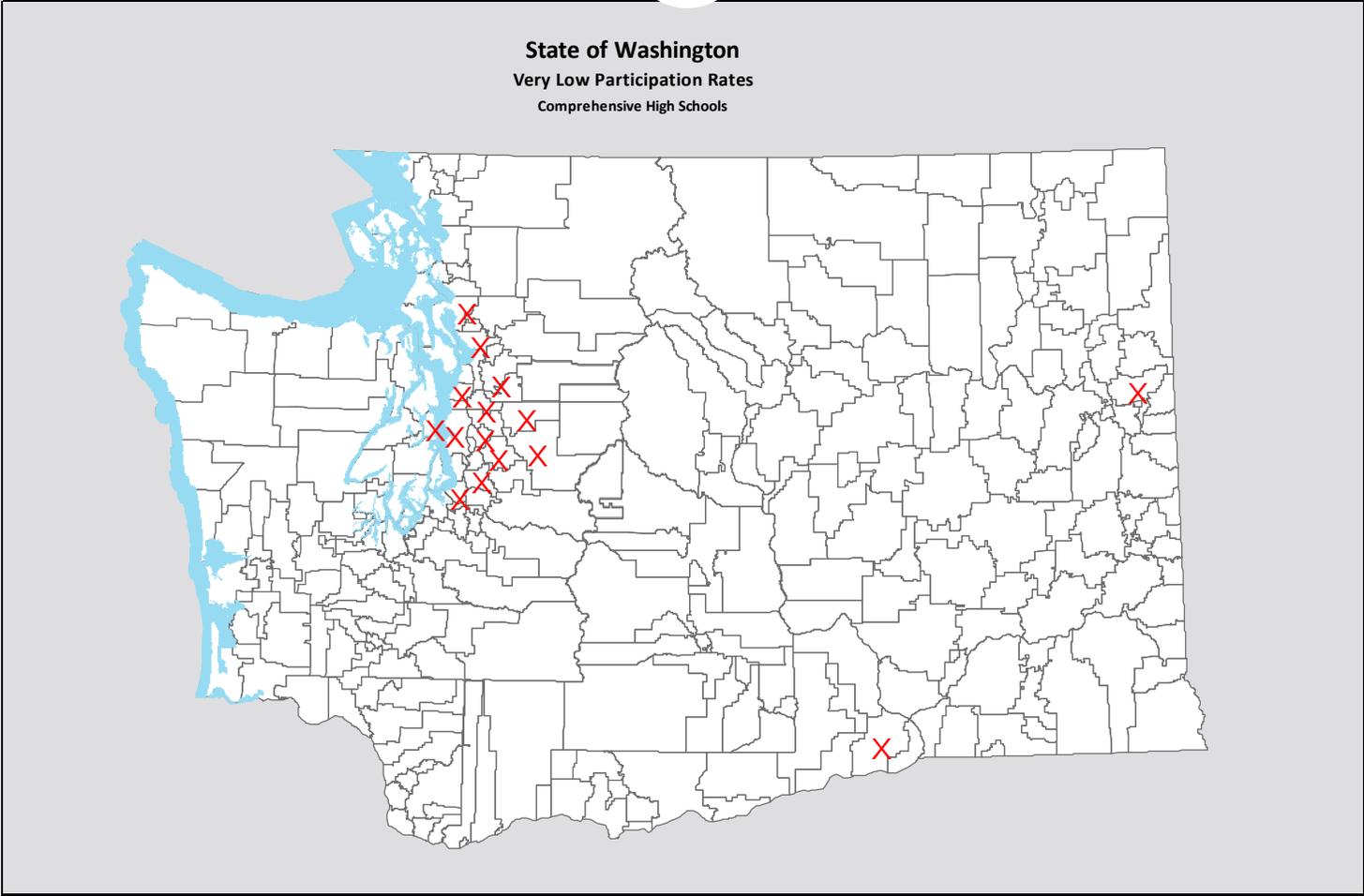
Most States Require All Students To Take State Tests



Source: http://www.nasbe.org/wp-content/uploads/Lorenzo_Opt-Outs-by-State.pdf



Comprehensive High Schools with Very Low Participation Rates



Test Refusals – School Level



- Of the 2162 schools with data, about 20% (464) did not meet federal participation rates.
 - ✦ Over 95% of high schools failed to meet part rate requirements.
- Per Federal requirements,
 - ✦ Test refusals are identified as non-participants
 - ✦ Students are identified as Not Meeting Standard
 - ✦ Factor into the denominator for Proficiency rate calculations

RESULT – schools with low participation rates will have low proficiency rates.



School Level Differences



- For elementary and middle schools, the participation rates were variable but were mostly high.
- For high schools, the participation rates were mostly very low.

School Level	ELA Participation %			Math Participation %			Average Participation %		
	Low	High	Median	Low	High	Median	Low	High	Median
Elementary	35	95	95	25	95	95	30	95	95
Middle	86	95	95	87	95	95	86	95	95
High	5	90	14	5	87	16	5	88	17



Within District Differences



- School by school participation rates vary considerably within districts but are mostly very low.

School	Enrollment	FRL %	ELA Participation	MATH Participation	Average Participation
HIGH SCHOOL 1	285	19	< 5	< 5	< 5
HIGH SCHOOL 2	330	26	< 5	< 5	< 5
HIGH SCHOOL 3	1143	31	< 5	< 5	< 5
HIGH SCHOOL 4	1640	39	< 5	< 5	< 5
HIGH SCHOOL 5	1612	18	6	< 5	< 5
HIGH SCHOOL 6	1095	34	8	< 5	6
HIGH SCHOOL 7	1747	15	8	23	15
HIGH SCHOOL 8	168	47	20	18	19
HIGH SCHOOL 9	983	40	34	15	24
HIGH SCHOOL 10	863	70	30	26	28
HIGH SCHOOL 11	107	80	45	32	39
HIGH SCHOOL 12	1263	60	72	34	53
HIGH SCHOOL 13	1375	67	68	61	65
HIGH SCHOOL 14	484	81	90	87	88



School Testing Participation Rates

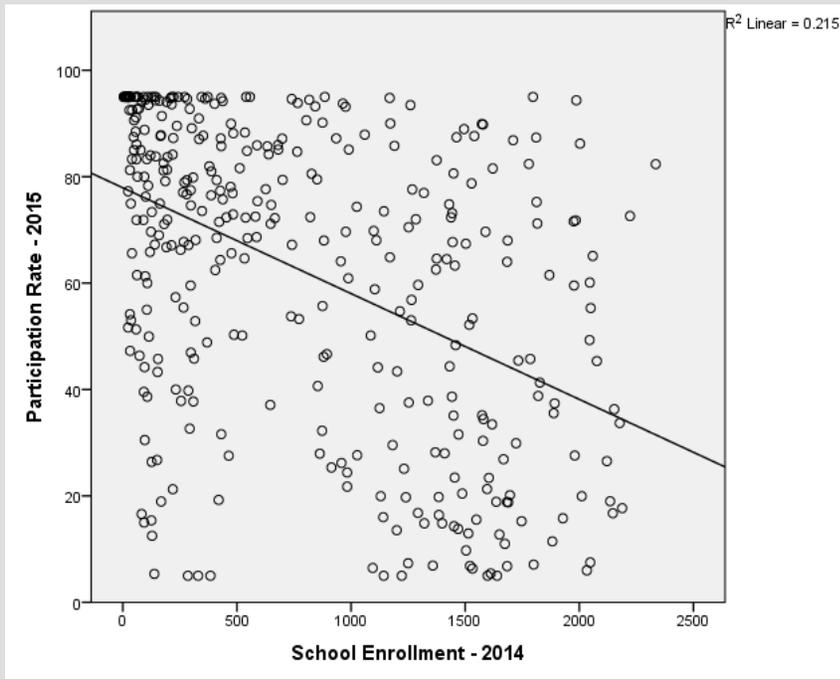


- Generating new data using the Index data file and 2015 AYP data files from the Washington Report Card.
- Using statistical analyses (multiple regression) to:
 - ✦ Estimate how schools should perform on participation rate based on school size and FRL rates
 - ✦ Compare the actual participation rate to the estimated participation rate
 - ✦ Identify the schools who performed best (and worst) after considering size and poverty level.
- Basically, regression tells us who participated at higher (or lower) rates than the data would predict?



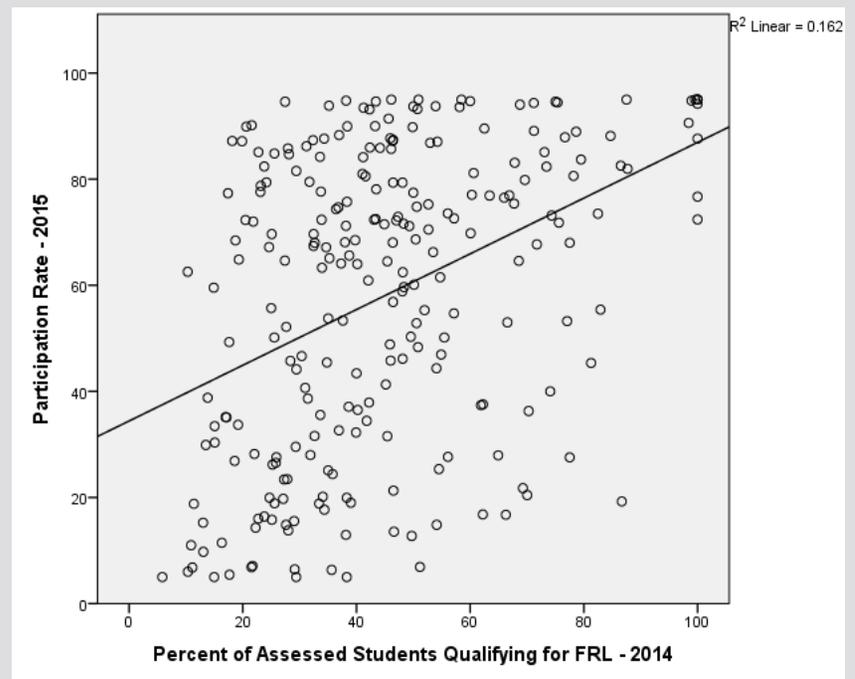
Power of Multiple Regression

This is a moderate and negative correlation ($R = -0.464$).



Participation rates are lower at larger schools.

This is a moderate and positive correlation ($r = 0.403$).



Participation rates are lower at low poverty schools.



High Schools that Exceeded Predicted Participation Rates



District	School	Enroll	FRL %	ELA Part.	Math Part.	Average Part.	Predicted Rate	Residual (+/-)
VANCOUVER SD	SKYVIEW HS	2003	29	86	86	86	37	50
MEAD SD	MEAD SENIOR HS	1573	23	91	89	90	41	49
BETHEL SD	KAPOWSIN HS	1811	36	90	85	87	40	47
LAKE STEVENS SD	LAKE STEVENS SHS	1779	23	74	91	82	38	44
YAKIMA SD	EISENHOWER HS	1987	70	95	94	94	51	43
OAK HARBOR SD	OAK HARBOR HS	1540	35	90	85	88	46	42
CHENEY SD	CHENEY HS	1169	41	94	95	95	54	41
YELM SD	YELM HS	1260	40	95	92	93	54	40
BETHEL SD	BETHEL HS	1578	47	92	88	90	51	39
ARLINGTON SD	ARLINGTON HS	1621	26	84	79	82	43	39
BETHEL SD	SPANAWAY LAKE HS	1710	51	89	85	87	50	37
STEILACOOM HIST. SD	STEILACOOM HS	875	18	89	91	90	53	37
ORTING SD	ORTING HS	740	33	95	94	95	58	37
PUYALLUP SD	EMERALD RIDGE HS	1528	23	77	80	79	42	36
PASCO SD	CHIAWANA HS	2335	69	75	90	82	46	36



High Schools that Did Not Meet Participation Rate Predictions



District	School	Enroll	FRL %	ELA Part.	Math Part.	Average Part.	Predicted Rate	Residual
EASTMONT SD	EASTMONT SHS	1358	48	9	< 5	7	56	-49
TACOMA SD	FOSS HS	983	70	22	21	22	69	-47
SEATTLE PS	NATHAN HALE HS	1143	31	< 5	< 5	< 5	51	-46
SEATTLE PS	INGRAHAM HS	1095	34	8	< 5	6	52	-46
TACOMA SD	OAKLAND HS	232	80	49	31	40	84	-44
HIGHLINE SD	HIGHLINE HS	1293	64	20	14	17	61	-44
FEDERAL WAY SD	DECATUR HS	1200	50	20	7	14	57	-43
SEATTLE PS	CLEVELAND HS	863	70	30	26	28	69	-41
FEDERAL WAY SD	T JEFFERSON HS	1399	54	21	8	15	56	-41
SEATTLE PS	GARFIELD HS	1640	39	< 5	< 5	< 5	46	-41
KENT SD	KENTLAKE HS	1532	37	8	< 5	6	47	-40
ISSAQUAH SD	LIBERTY SR HS	1222	13	< 5	< 5	< 5	45	-40
KENNEWICK SD	KENNEWICK HS	1487	70	34	7	20	60	-40
ABERDEEN SD	WEATHERWAX HS	914	55	34	17	25	65	-39
KENNEWICK SD	SOUTHRIDGE HS	1650	49	21	< 5	13	50	-37



How Did Some High Schools Achieve the High Participation Rates?



- Skyview High School: 50 percentage points above expected

‘Administrators and staff emphasized the importance of doing well for enrolling in college down the road. School staff bent over backwards to get students in front of the computers used for testing.’

- Cheney High School: +95% Participation

‘Administrators and staff developed a test administration plan to personalize the experience for our students. Our teachers take ownership in the success of their students.’

- West Valley High School: +95% Participation

‘Staff made a concerted effort to reduce ‘testing stress’ for students and communicated the benefits of doing well on the test to the students. The students wanted to do well on the tests.’



Questions?



If you have questions, please contact:
Andrew Parr at andrew.parr@k12.wa.us
Parker Teed at parker.teed@k12.wa.us



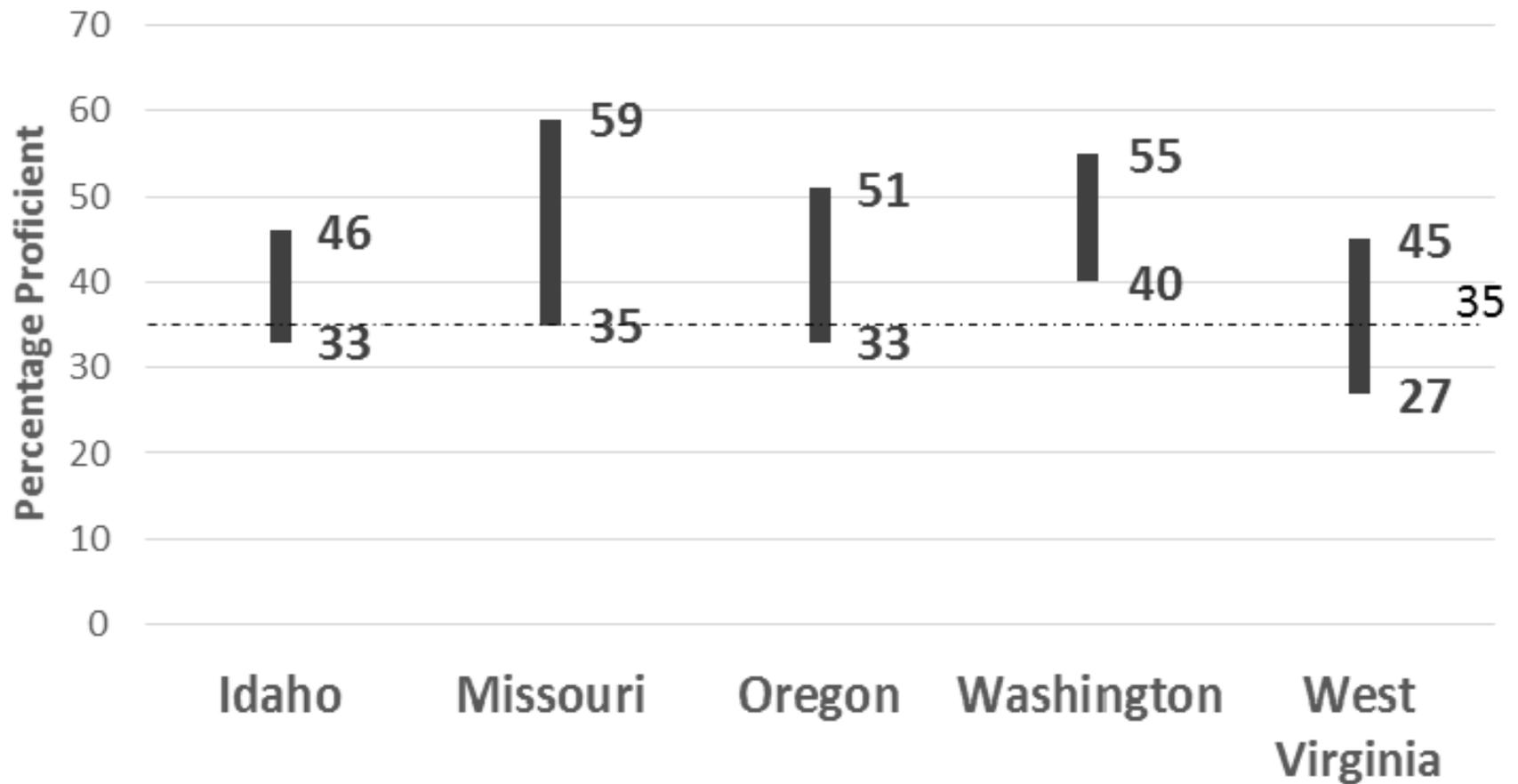
Additional Information



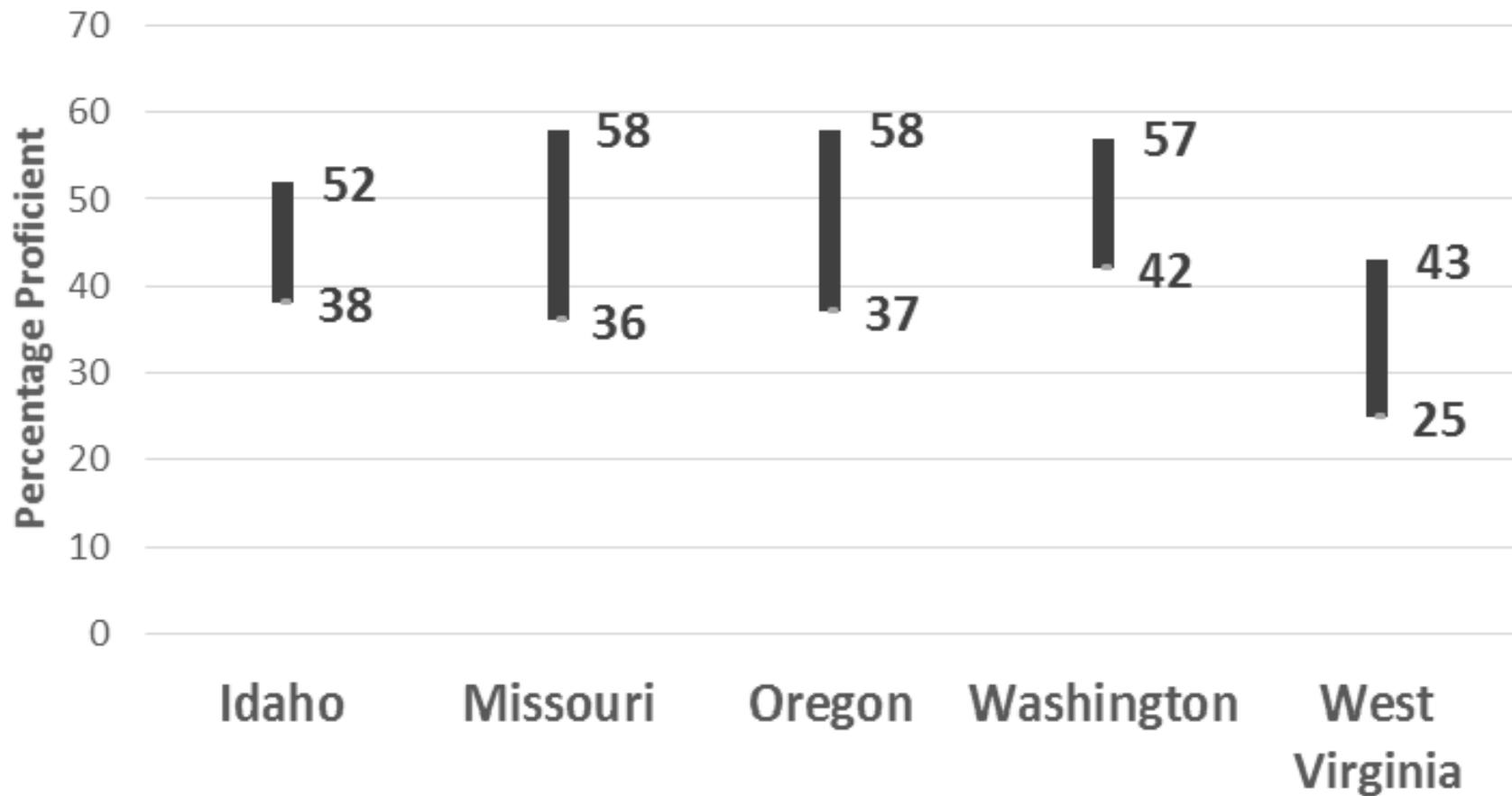
- The following slides introduce other analyses included in the board packet on pages 114 to 119 of the board packet.
- These analyses can be found at www.sbe.wa.gov/materials.php



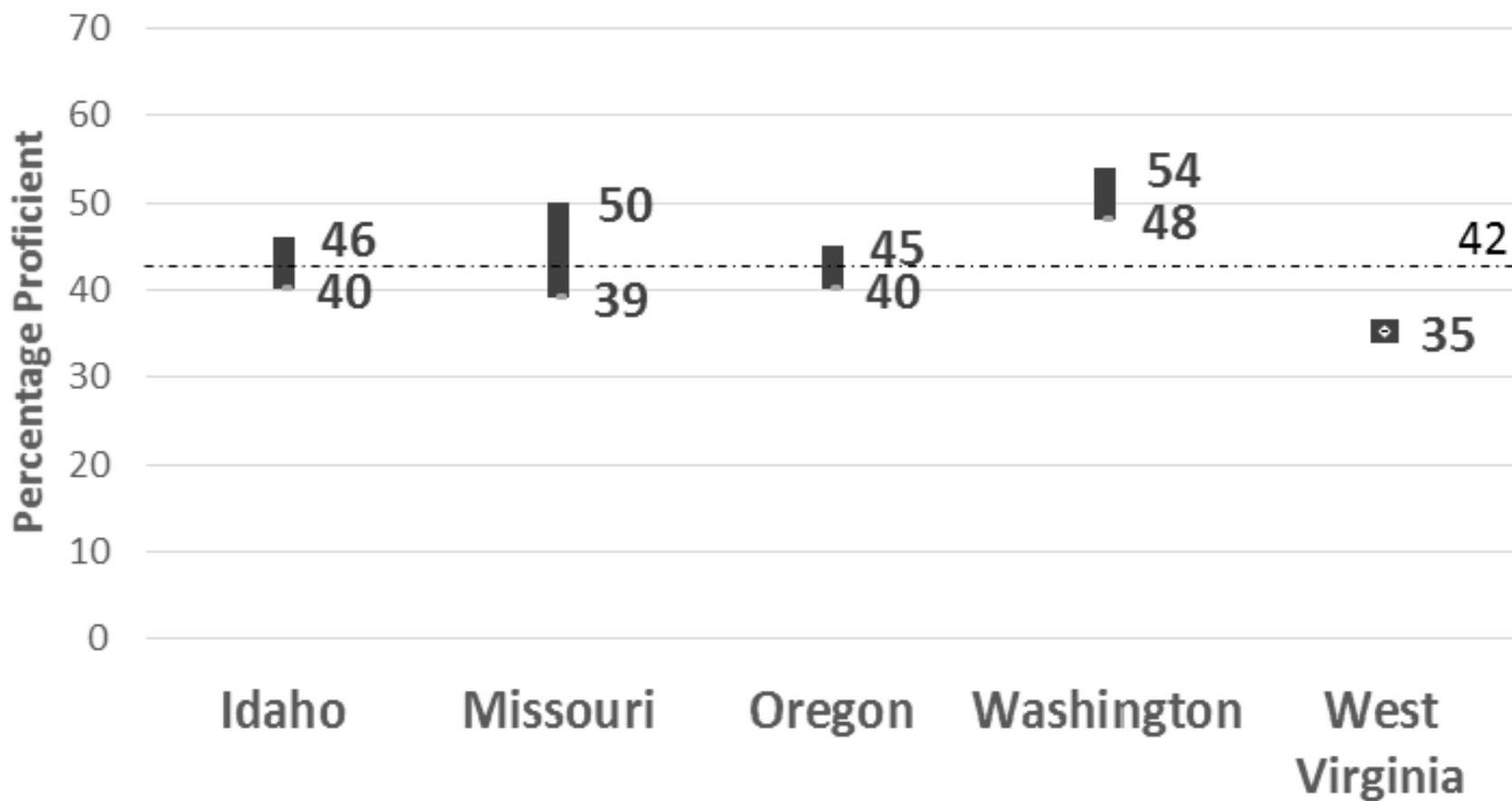
Fourth Grade Reading



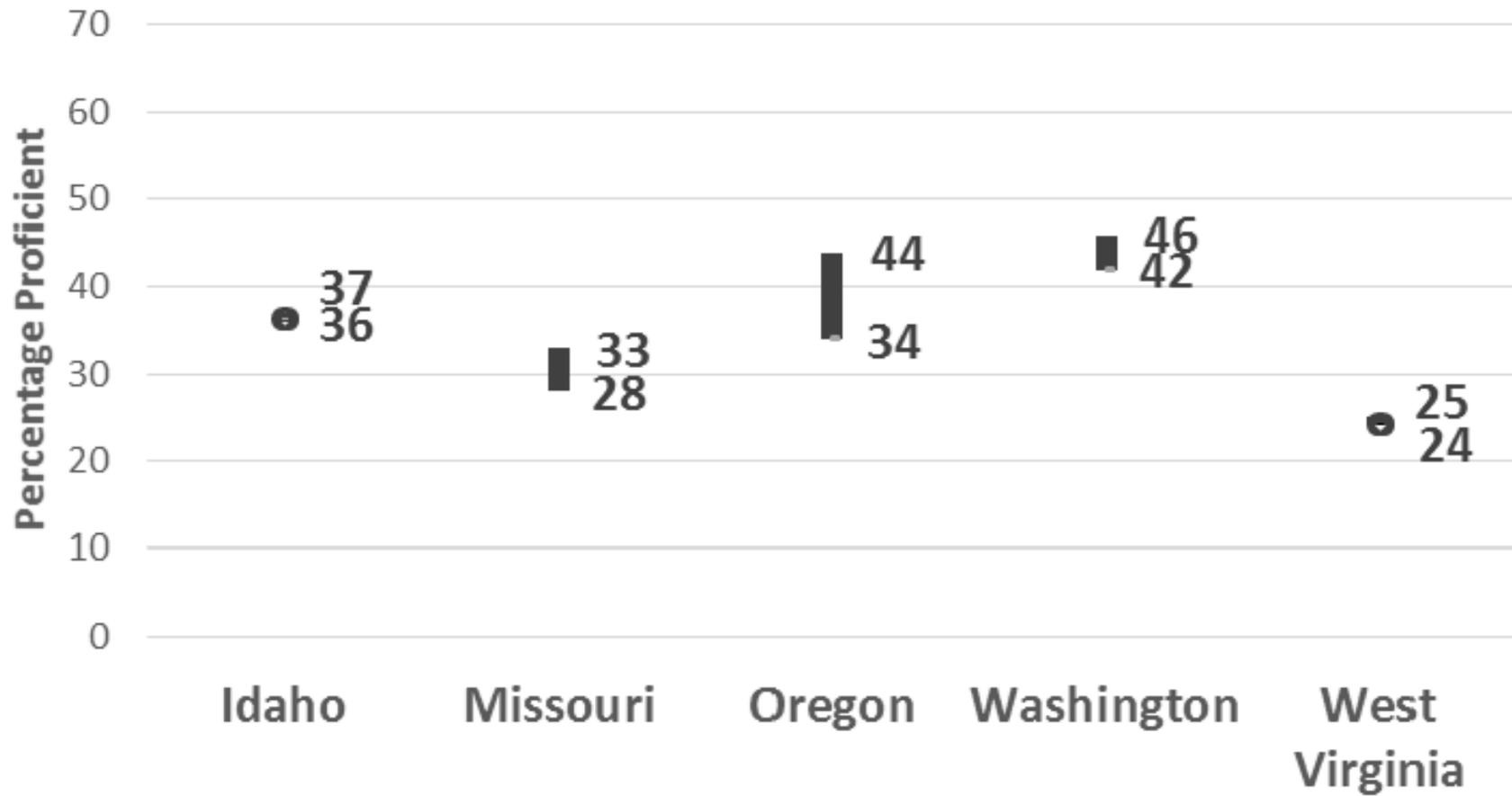
Eighth Grade Reading



Fourth Grade Math



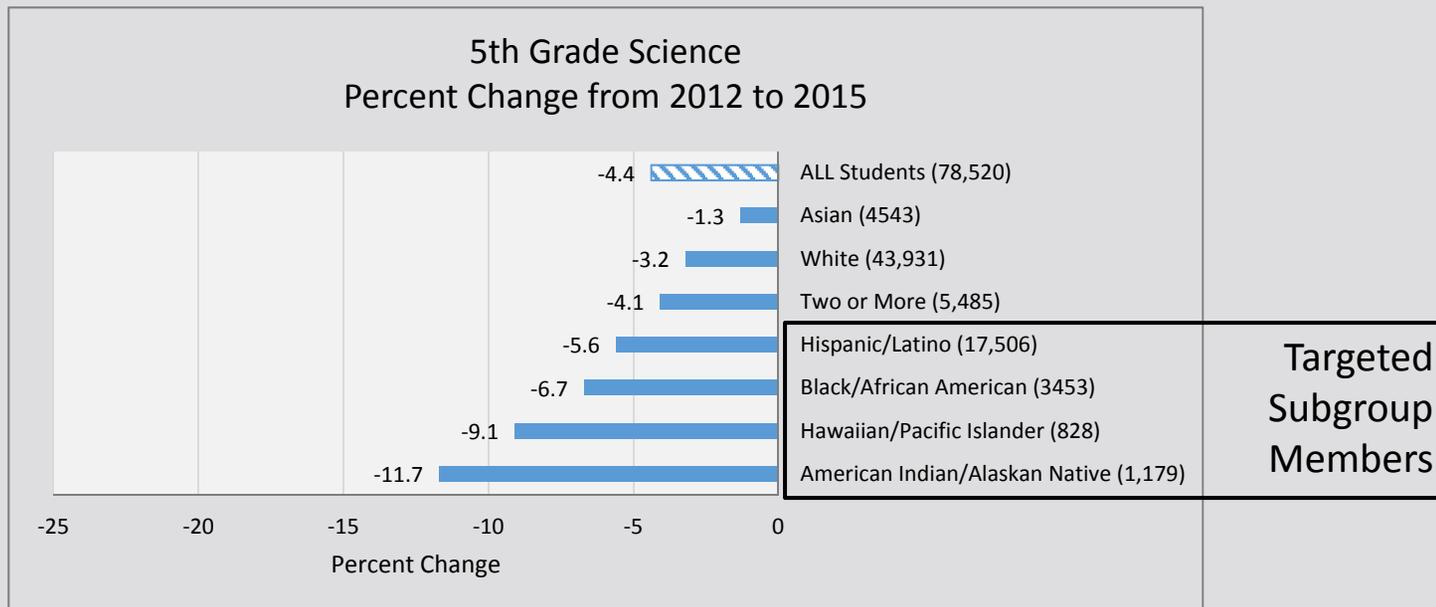
Eighth Grade Math



5th Grade Science



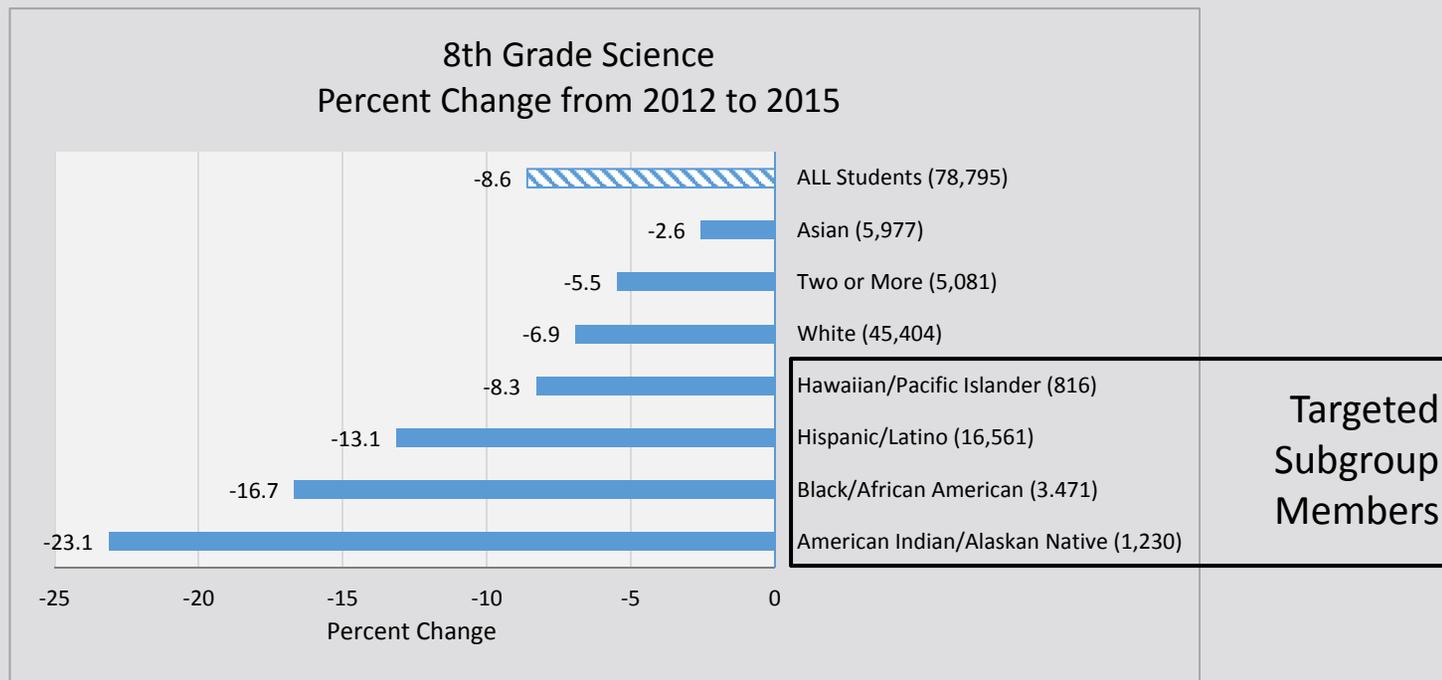
- The percentage of students Meeting Standards declined in 2015 from 2014 for all student groups.
- The Targeted Subgroup members showed the greatest decline.



8th Grade Science



- The achievement gap in science is increasing because the declines for the Targeted Subgroup members are larger than the other groups.

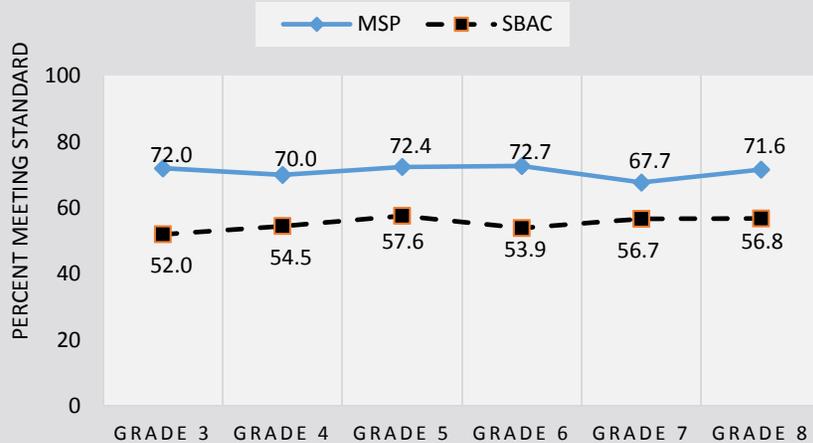


Comparison of MSP and SBAC

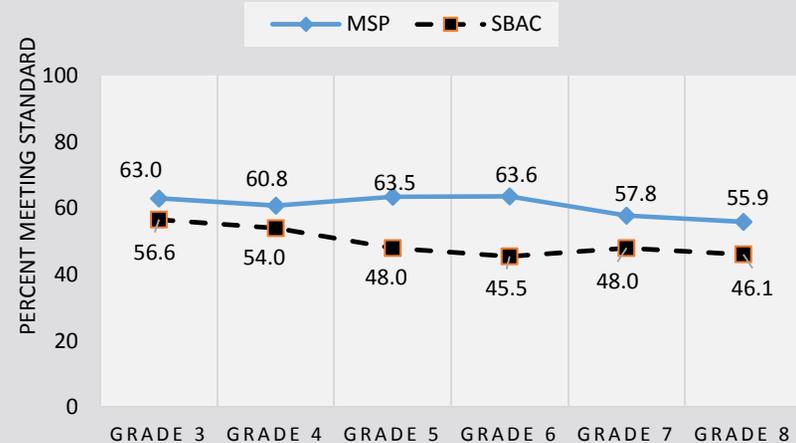
The percentages of students meeting standard on the 2015 SBAC ELA are 10 to 20 percentage points lower than 2014 MSP Reading percentages.

The percentages of students meeting standard on the 2015 SBAC Math are 7 to 18 percentage points lower than the comparable 2014 MSP Math percentages.

MSP READING AND SBAC ELA



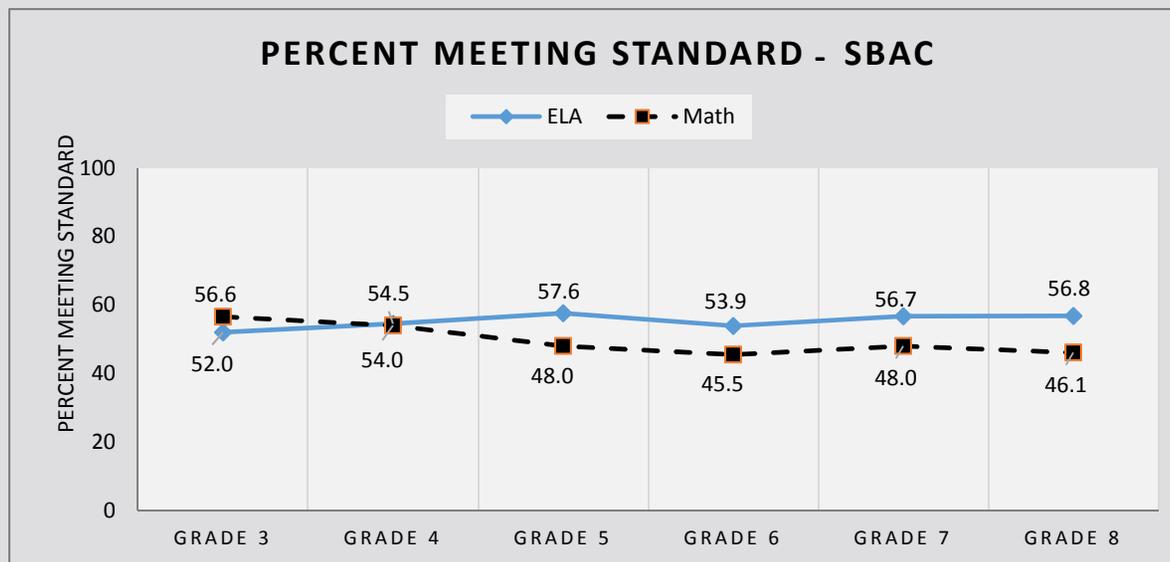
MSP MATH AND SBAC MATH



SBAC ELA and Math



- The performance on the SBAC ELA increases from the lower grades to the upper grades
- The performance on the SBAC Math decreases from the lower grades to the upper grades



Questions?



If you have questions, please contact:
Andrew Parr at andrew.parr@k12.wa.us
Parker Teed at parker.teed@k12.wa.us

