

MISSOURI STATE BOARD OF EDUCATION AGENDA ITEM:		August 2015	
AN UPDATE ON EDUCATOR PREPARATION			
STATUTORY AUTHORITY: Sections 161.092, 168.011, 168.021, 168.071, 168.081, 168.400, 168.405, and 168.409, RSMo		<input type="checkbox"/> Consent Item	<input type="checkbox"/> Action Item
		<input checked="" type="checkbox"/> Report Item	
<p>DEPARTMENT GOAL NO. 3:</p> <p>Missouri will prepare, develop, and support effective educators.</p> <p>SUMMARY:</p> <p>In June, the Department recommended changes in testing time, number of test items, and reconvening of both the bias review committee and content advisory committees for specific assessments. These were recommendations made by the Missouri Advisory Board for Educator Preparation (MABEP) and the Missouri Advisory Council for the Certification of Educators (MACCE). This presentation contains updates on the following:</p> <ul style="list-style-type: none"> • A decrease in the number of scored items and an increase in testing time will be implemented beginning in September 2015 for the following seven assessments: <ul style="list-style-type: none"> ○ Middle School <ul style="list-style-type: none"> ▪ Mathematics ▪ Science ▪ Social Science ○ Secondary School <ul style="list-style-type: none"> ▪ Biology ▪ Chemistry ▪ Mathematics ▪ Physics • Content Advisory Committees will be convened this fall to confirm the alignment of the test frameworks to the Missouri Learning Standards and national standards. The frameworks for the following 13 assessments will be reviewed: <ul style="list-style-type: none"> ○ Middle School <ul style="list-style-type: none"> ▪ Mathematics ▪ Science ▪ Social Science ○ Secondary School <ul style="list-style-type: none"> ▪ Biology ▪ Chemistry ▪ Mathematics ▪ Physics 			

- Social Science Multi-Content
 - United States History
 - World History
 - Political Science
 - Unified Science Multi-Content
 - Chemistry
 - Physics
 - Mild Moderate Multi-Content
 - ML/SS Mathematics
- Findings from the Bias Review Committee, which met on July 8 and 9, 2015, will be presented. The panel included six PK-12 educators and nine representatives from educator preparation programs to review the following five assessments:
 - Elementary Multiple-Content Assessments
 - English Language Arts
 - Mathematics
 - Science
 - Social Studies
 - Building Level Administrator Assessment.

This presentation will include a review of impact data collected from September 2014 through July 2015. Findings from an analysis of assessment validity and reliability, which is provided in the technical manuals for the content assessments, will also be presented.

PRESENTER(S):

Paul Katnik, Assistant Commissioner, and Gale "Hap" Hairston, Director, Educator Preparation, Office of Educator Quality will assist with the presentation and discussion of this agenda item.

Missouri Department of Elementary and Secondary Education Impact Data for the Missouri Content Assessments								
Assessment	Change: April 12, 2015 to July 7, 2015							
	Test Takers		Required Passing Score	As of Apr '15		As of July '15		% Change Apr to July 1 st / Best
	As of Apr '15 N=	As of July '15 N=		1st	Best	1st	Best	
Middle School Education								
Mathematics	215	324	49/80	38%	45%	41%	50%	+3 / +5
* <i>Science</i>	145	211	46/80	43%	52%	51%	61%	+8 / +9
Social Science	133	223	49/80	48%	56%	52%	60%	+4 / +4
Secondary Education								
* <i>Biology</i>	66	107	53/80	45%	55%	50%	56%	+5 / +1
* <i>Chemistry</i>	25	43	48/80	40%	52%	51%	60%	+11 / +8
* <i>Mathematics</i>	99	150	54/80	14%	19%	19%	29%	+5 / +10
* <i>Physics</i>	12	15	57/80	25%	25%	33%	40%	+8 / +15
Social Science Multi-Content								
United States History	112	158	20/32	45%	48%	49%	56%	+4 / +8
World History	109	154	20/32	50%	51%	52%	58%	+2 / +7
Political Science	107	153	20/32	43%	47%	46%	56%	+3 / +9
Unified Sciences								
* <i>Chemistry</i>	11	13	19/32	0%	18%	8%	46%	+8 / +28
* <i>Physics</i>	5	9	21/32	Low N	Low N	11%	33%	--- / ---
Special Education								
* <i>ML/SS Mathematics</i>	52	102	18/32	44%	50%	40%	48%	+4 / -2

*Shortage Area



EDUCATOR PREPARATION *UPDATE*

August 10-11, 2015

Missouri Department
of Elementary and Secondary Education

Teacher Development Process

Minimum requirements

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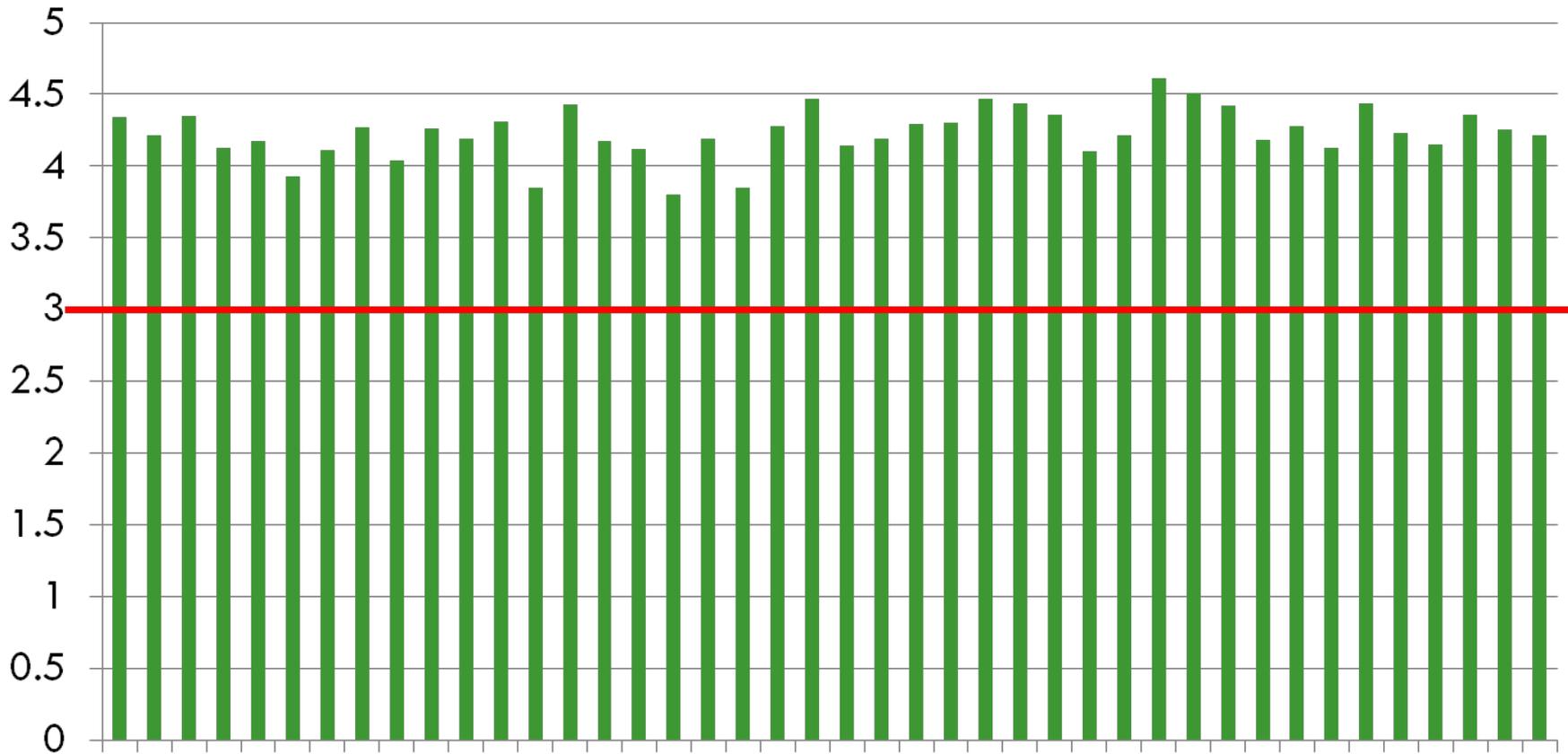
- *Entry assessment (MoGEA and the Educator Profile)*
- *Content and pedagogy coursework*
- *Early field experience (30 clock hours)*
- *Mid-level experience (45 clock hours)*
- *Content assessment*
- *Clinical experience (12 weeks)*
- *Performance assessment*

Impact Data Summary (April 24 to July 7)

- *4,332 additional assessments added*
- *Passing rate increased in 37 / 56 (66%) assessments*
- *Average rate of increase = 7%*
- *Passing rate decreased in 9 / 56 (16%) assessments*
- *Average rate of decrease = 7.6%*
- *No change in passing rate of 10 / 56 (18%) assessments*

Content Validity (1,066 Teachers)

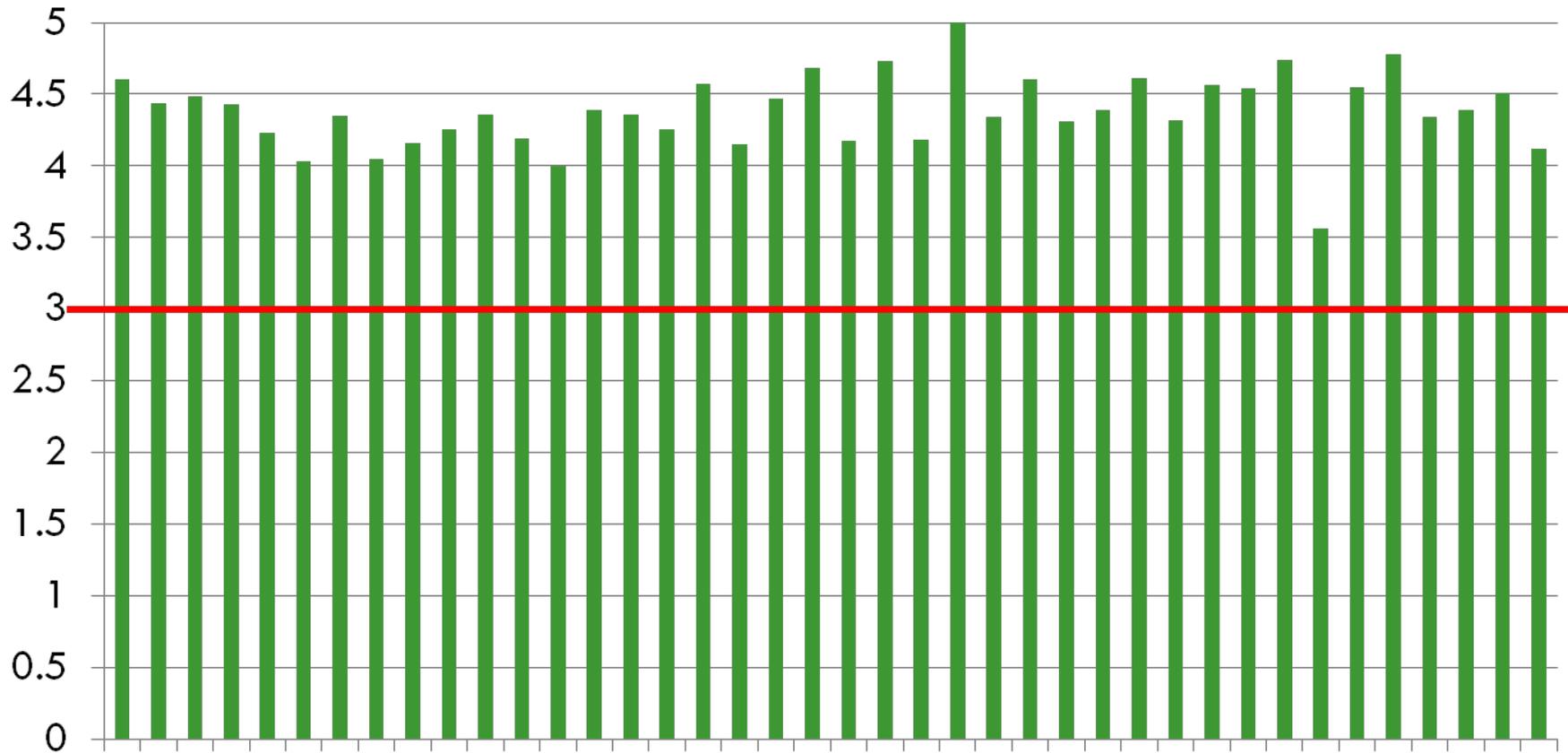
Assessments



A rating of 3 or higher is an indication that the content addressed is appropriate for a certification assessment.

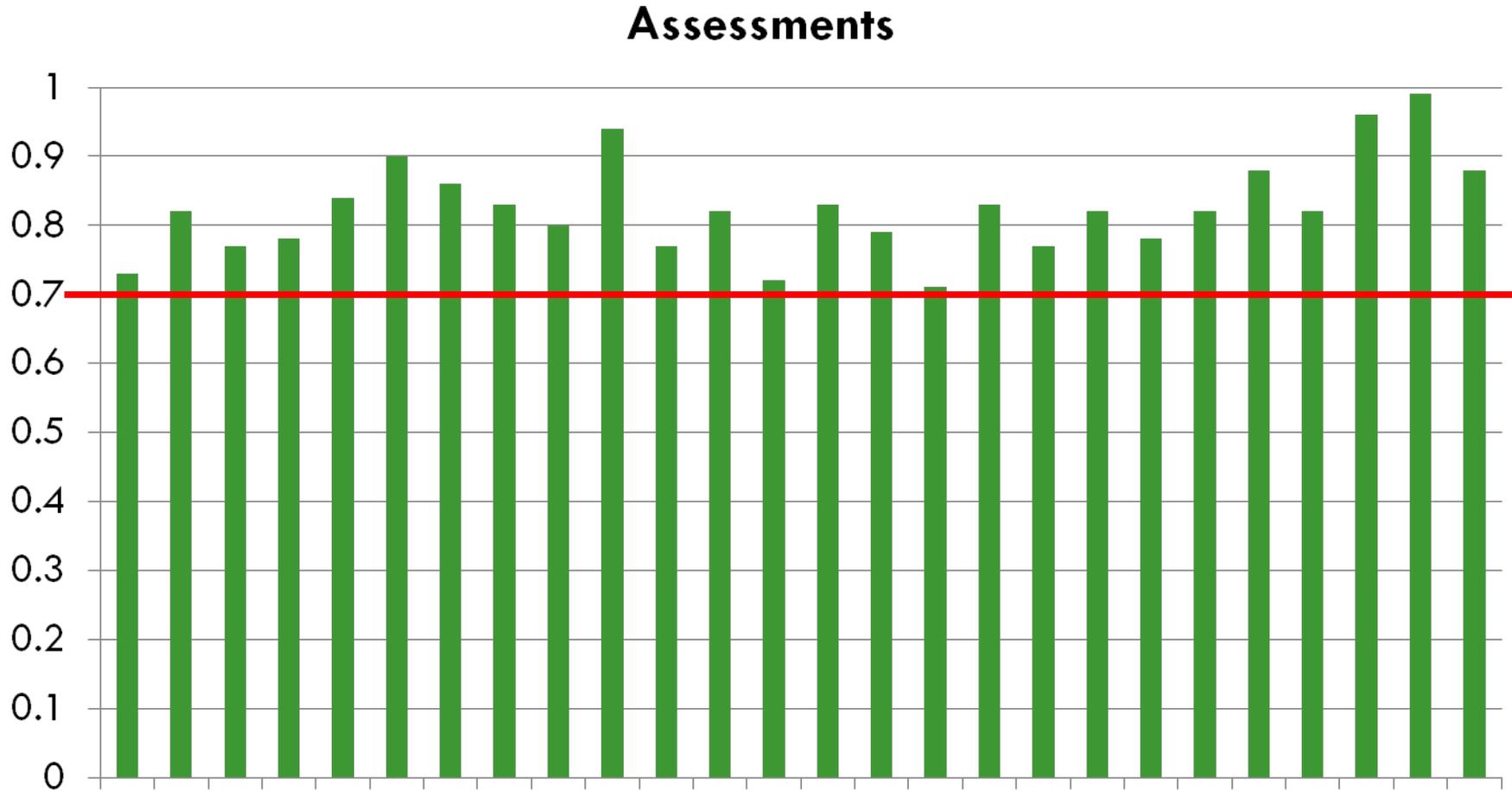
Content Validity (498 College faculty)

Assessments



A rating of 3 or higher is an indication that the content addressed is appropriate for a certification assessment.

Reliability Coefficients



A rating of .70 or higher is an indication that the content assessment reliably assesses the intended content.

Reliability coefficients are only available for assessments with a sufficient N size (26 assessments).

Bias Review Committee Results

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Assessment	Items free of bias	Items flagged for potential bias	% of assessment free of bias
Elementary English	138	4	97%
Elementary Mathematics	123	3	98%
Elementary Science	117	5	96%
Elementary Social Studies	116	4	97%
Building Administrator	174	0	100%

Reliability of Constructed Response Scoring

Assessment	2 Raters Same score	2 Raters Adjacent Scores	2 Raters Inter-rater Reliability
Building Administrator Item #1	68	31	72%
Building Administrator Item #2	73	27	73%
Superintendent Item #1	74	26	72%
Superintendent Item #2	77	23	79%