Appendix L—DECISION ACCURACY AND CONSISTENCY RESULTS

Table L-1. 2009 MEPA: Accuracy and Consistency Summary
Spring 2009 Administration—Grade Span K–2

		Accuracy		Consistency	Kappa (κ)
Overall Indices		0.762		0.674	0.552

				Accuracy	Consistency
Indices conditional on performance level		Level 1 & Level 2*		0.847	0.784
		Level 3		0.730	0.647
		Level 4		0.668	0.559
		Level 5		0.846	0.717

			Accuracy		Consistency
		Accuracy	False Positives	False Negatives	
Indices at performance level cutpoints	1&2:3	0.916	0.042	0.043	0.882
	3:4	0.903	0.057	0.040	0.865
	4:5	0.942	0.039	0.019	0.919

1 = *Level 1;* 2 = *Level 2;* 3 = *Level 3*; 4 = *Level 4*; 5 = *Level 5.*

Table L-2. 2009 MEPA: Accuracy and Consistency Summary
Fall 2009 Administration—Grade Span K–2

		Accuracy		Consistency	Kappa (κ)
Overall Indices		0.786		0.708	0.604

				Accuracy	Consistency
Indices conditional on performance level		Level 1		0.882	0.837
		Level 2		0.630	0.520
		Level 3		0.740	0.647
		Level 4 & Level 5*		0.878	0.788

			Accuracy		Consistency
		Accuracy	False Positives	False Negatives	
Indices at performance level cutpoints	1:2	0.923	0.039	0.037	0.892
	2:3	0.917	0.047	0.037	0.884
	3:4&5	0.945	0.035	0.021	0.922

1 = *Level 1;* 2 = *Level 2;* 3 = *Level 3*; 4 = *Level 4*; 5 = *Level 5.*

*Because of restricted sample sizes it was necessary to collapse performance levels in order to obtain stable and accurate decision accuracy and consistency results. Thus, in some conditions it was necessary to collapse performance levels 1 and 2, whereas in other conditions it was necessary to collapse performance levels 4 and 5.

Table L-3. 2009 MEPA: Accuracy and Consistency Summary
Spring 2009 Administration—Grade Span 3–4

		Accuracy		Consistency	Kappa (κ)
Overall Indices		0.802		0.723	0.611

				Accuracy	Consistency
Indices conditional on performance level		Level 1 & Level 2*		0.819	0.725
		Level 3		0.742	0.654
		Level 4		0.789	0.720
		Level 5		0.883	0.797

		Accuracy			Consistency
		Accuracy	False Positives	False Negatives	
Indices at performance level cutpoints	1&2:3	0.958	0.019	0.024	0.941
	3:4	0.916	0.044	0.039	0.883
	4:5	0.927	0.046	0.027	0.899

1 = *Level 1;* 2 = *Level 2;* 3 = *Level 3*; 4 = *Level 4*; 5 = *Level 5.*

Table L-4. 2009 MEPA: Accuracy and Consistency Summary
Fall 2009 Administration—Grade Span 3–4

		Accuracy		Consistency	Kappa (κ)
Overall Indices		0.800		0.729	0.627

				Accuracy	Consistency
Indices conditional on performance level		Level 1		0.892	0.863
		Level 2		0.653	0.544
		Level 3		0.651	0.537
		Level 4 & Level 5*		0.905	0.831

		Accuracy			Consistency
		Accuracy	False Positives	False Negatives	
Indices at performance level cutpoints	1:2	0.925	0.042	0.033	0.895
	2:3	0.928	0.043	0.029	0.900
	3:4&5	0.945	0.035	0.020	0.923

1 = *Level 1;* 2 = *Level 2;* 3 = *Level 3*; 4 = *Level 4*; 5 = *Level 5.*

*Because of restricted sample sizes it was necessary to collapse performance levels in order to obtain stable and accurate decision accuracy and consistency results. Thus, in some conditions it was necessary to collapse performance levels 1 and 2, whereas in other conditions it was necessary to collapse performance levels 4 and 5.

Table L-5. 2009 MEPA: Accuracy and Consistency Summary
Spring 2009 Administration—Grade Span 5–6

		Accuracy		*Consistency*	*Kappa (κ)*
Overall Indices		0.784		0.702	0.594

				Accuracy	*Consistency*
Indices conditional on performance level	*Level 1 & Level 2**			0.833	0.753
	Level 3			0.738	0.652
	Level 4			0.720	0.628
	Level 5			0.888	0.805

		Accuracy			*Consistency*
		Accuracy	*False Positives*	*False Negatives*	
Indices at performance level cutpoints	*1&2:3*	0.948	0.024	0.028	0.927
	3:4	0.912	0.048	0.040	0.877
	4:5	0.924	0.048	0.029	0.894

1 = *Level 1;* 2 = *Level 2;* 3 = *Level 3*; 4 = *Level 4*; 5 = *Level 5.*

Table L-6. 2009 MEPA: Accuracy and Consistency Summary
Fall 2009 Administration—Grade Span 5–6

		Accuracy		*Consistency*	*Kappa (κ)*
Overall Indices		0.792		0.720	0.617

				Accuracy	*Consistency*
Indices conditional on performance level	*Level 1*			0.894	0.864
	Level 2			0.635	0.523
	Level 3			0.655	0.543
	Level 4 & Level 5*			0.889	0.811

		Accuracy			*Consistency*
		Accuracy	*False Positives*	*False Negatives*	
Indices at performance level cutpoints	*1:2*	0.929	0.040	0.032	0.901
	2:3	0.926	0.043	0.031	0.897
	3:4&5	0.936	0.040	0.025	0.910

1 = *Level 1;* 2 = *Level 2;* 3 = *Level 3*; 4 = *Level 4*; 5 = *Level 5.*

*Because of restricted sample sizes it was necessary to collapse performance levels in order to obtain stable and accurate decision accuracy and consistency results. Thus, in some conditions it was necessary to collapse performance levels 1 and 2, whereas in other conditions it was necessary to collapse performance levels 4 and 5.

Table L-7. 2009 MEPA: Accuracy and Consistency Summary
Spring 2009 Administration—Grade Span 7–8

		Accuracy		Consistency	Kappa (κ)
Overall Indices		0.770		0.688	0.581

				Accuracy	Consistency
Indices conditional on performance level		Level 1 & Level 2*		0.853	0.793
		Level 3		0.730	0.643
		Level 4		0.597	0.485
		Level 5		0.886	0.802

		Accuracy			Consistency
		Accuracy	False Positives	False Negatives	
Indices at performance level cutpoints	1&2:3	0.931	0.034	0.035	0.904
	3:4	0.911	0.051	0.038	0.875
	4:5	0.925	0.047	0.028	0.896

1 = *Level 1;* 2 = *Level 2;* 3 = *Level 3*; 4 = *Level 4*; 5 = *Level 5.*

Table L-8. 2009 MEPA: Accuracy and Consistency Summary
Fall 2009 Administration—Grade Span 7–8

		Accuracy		Consistency	Kappa (κ)
Overall Indices		0.807		0.739	0.639

				Accuracy	Consistency
Indices conditional on performance level		Level 1		0.903	0.876
		Level 2		0.661	0.551
		Level 3		0.660	0.548
		Level 4 & Level 5*		0.899	0.826

		Accuracy			Consistency
		Accuracy	False Positives	False Negatives	
Indices at performance level cutpoints	1:2	0.932	0.038	0.030	0.904
	2:3	0.932	0.040	0.028	0.905
	3:4&5	0.943	0.036	0.022	0.920

1 = *Level 1;* 2 = *Level 2;* 3 = *Level 3*; 4 = *Level 4*; 5 = *Level 5.*

*Because of restricted sample sizes it was necessary to collapse performance levels in order to obtain stable and accurate decision accuracy and consistency results. Thus, in some conditions it was necessary to collapse performance levels 1 and 2, whereas in other conditions it was necessary to collapse performance levels 4 and 5.

Table L-9. 2009 MEPA: Accuracy and Consistency Summary
Spring 2009 Administration—Grade Span 9–12

		Accuracy		*Consistency*	*Kappa (κ)*
Overall Indices		0.781		0.704	0.591

				Accuracy	*Consistency*
Indices conditional on performance level		*Level 1 & Level 2**		0.849	0.783
		Level 3		0.791	0.726
		Level 4		0.555	0.440
		Level 5		0.879	0.789

		Accuracy			*Consistency*
		Accuracy	*False Positives*	*False Negatives*	
Indices at performance level cutpoints	*1&2:3*	0.935	0.032	0.034	0.908
	3:4	0.913	0.051	0.036	0.878
	4:5	0.930	0.044	0.026	0.902

1 = *Level 1;* 2 = *Level 2;* 3 = *Level 3*; 4 = *Level 4*; 5 = *Level 5.*

Table L-10. 2009 MEPA: Accuracy and Consistency Summary
Fall 2009 Administration—Grade Span 9–12

		Accuracy		*Consistency*	*Kappa (κ)*
Overall Indices		0.777		0.697	0.591

				Accuracy	*Consistency*
Indices conditional on performance level		*Level 1*		0.852	0.796
		Level 2		0.592	0.480
		Level 3		0.762	0.677
		Level 4 & Level 5*		0.885	0.799

		Accuracy			*Consistency*
		Accuracy	*False Positives*	*False Negatives*	
Indices at performance level cutpoints	*1:2*	0.925	0.039	0.037	0.895
	2:3	0.914	0.048	0.038	0.880
	3:4&5	0.936	0.040	0.024	0.910

1 = *Level 1;* 2 = *Level 2;* 3 = *Level 3*; 4 = *Level 4*; 5 = *Level 5.*

*Because of restricted sample sizes it was necessary to collapse performance levels in order to obtain stable and accurate decision accuracy and consistency results. Thus, in some conditions it was necessary to collapse performance levels 1 and 2, whereas in other conditions it was necessary to collapse performance levels 4 and 5.