Completer Impact on K-12 Student Learning Analysis using Transformed Mean Value-Added Scores (VAS) provided by the Department of Elementary and Secondary Education (DESE)

Addresses CAEP Standards R4.1, R5.4

Overall scores include the subjects of English Language Arts (ELA), Math, and Science (if available) and is a weighted mean. The ADE transforms this mean score for ease of interpretation. The following explanation is provided – "A score of 80 equals the value-added score of 0. A standard deviation of 35 is used to spread the scores around 80 so that school means scores will typically range from 65-95." The formula used in Arkansas School Ratings is: Transformed Mean VAS = (Mean VAS x 35) + 80.

The ADE has provided the following guide to make meaning of the VAS.

> **Transformed Score = 80** On average, your completers' students met expected growth.

> **Transformed Score greater than 80** On average, your completers' students are exceeding expected growth. The higher the score above 80, the greater the magnitude with which students of your completers exceeded their growth expectation.

> **Transformed Score less than 80** On average, students of your completers are not meeting expected growth in achievement. The lower the score below 80, the greater the degree to which students, on average, failed to meet expected growth.

The ADE provides three years of three cohorts of data (as it becomes available). Due to the privacy agreement signed with the ADE and Harding University's respect for privacy of our completers and their K-12 students, the following are simply observations from the actual report received from the ADE. **NOTE:** One limitation of analyzing the data that should be considered is that the data provided is based on where the teacher prepared for licensure and what area he or she was teaching in the K-12 school – not necessarily that he or she is teaching in the area for which they initially were trained with the EPP.

What conclusions have been made from reviewing the data?

The EPP's 2018 completers had scores attributed to them that were within 1-point difference of the student expected growth of 80.0 from DESE, which is above, but similar, to all AR providers. The EPP completer group from 2019 did not produce any reported VAS scores. The EPP completers from 2020 had scores attributed to them that were within 3-point difference of the student expected growth of 80.0 from DESE for ELA, Math, and Science, with no scores reaching the expected student growth rate of 80.0. However, all AR provider average scores for 2020 EPP completers were below the expected growth rate of 80.0. This is most likely due to continued, long-term effects from COVID-19. The EPP will continue to monitor the VAS scores to determine trends post-COVID.

Harding University EPP - 2020 Completer Cohort (Year 1 = 2020-2021)

	2020-21		2021-2022		2022-2023	
	VAS	N	VAS	N	VAS	N
ELA	78.8	18				
MATH	79.42	17				
SCIENCE	77.03	8				

	2020-21	2021-22	2022-23
Number of Completers with Growth Data	33		
Percent of Completers with Growth Data	28.21		

All AR Providers EPP - 2020 Completer Cohort (Year 1 = 2020-2021)

	2020-21		2021-2022		2022-2023	
	VAS	N	VAS	N	VAS	N
ELA	79.63	655				
MATH	78.82	572				
SCIENCE	79.01	347				

Harding University EPP - 2019 Completer Cohort (Year 1 = 2019-2020)

	2019-2020		2020-2021		2021-2022	
	VAS	N	VAS	N	VAS	N
ELA	COVID	0		0		
MATH	COVID	0		0		
SCIENCE	COVID	0		0		

	2019-20	2020-21	2021-22
Number of Completers with Growth Data	COVID	0	
Percent of Completers with Growth Data	COVID	0	

All AR Providers EPP - 2019 Completer Cohort (Year 1 = 2019-2020)

	2019-2020		2020-2021		2021-2022	
	VAS	N	VAS	N	VAS	N
ELA	COVID		79.4	629		
MATH	COVID		79.34	552		
SCIENCE	COVID		79.93	329		

Harding University EPP - 2018 Completer Cohort (Year 1 = 2018-2019)

	2018-19		2019-20		2020-21	
	VAS	N	VAS	N	VAS	N
ELA	79.48	30	COVID		79.67	26
MATH	79.87	19	COVID		80.82	24
SCIENCE	79.67	14	COVID		79.86	9

	2018-19	2019-20	2020-21
Number of Completers with Growth Data	42	COVID	41
Percent of Completers with Growth Data	23.6	COVID	23.03

All AR Providers EPP - 2018 Completer Cohort (Year 1 = 2018-2019)

	2018-19		2019-20		2020-21	
	VAS	N	VAS	N	VAS	N
ELA	79.19	309	COVID		79.62	651
MATH	78.84	556	COVID		79.92	585
SCIENCE	79.04	428	COVID		79.51	334

Harding University EPP - 2017 Completer Cohort (Year 1 = 2017-2018)

| | 2017-18 | | 2018-19 | | 2019-20 | |
	VAS	N	VAS	N	VAS	N
ELA		0		0	COVID	
MATH		0		0	COVID	
SCIENCE		0		0	COVID	

All AR Providers EPP - 2017 Completer Cohort (Year 1 = 2017-2018)

| | 2017-18 | | 2018-19 | | 2019-20 | |
	VAS	N	VAS	N	VAS	N
ELA	79.35	537	79.27	508	COVID	
MATH	78.95	506	79.48	483	COVID	
SCIENCE	78.95	397	79.25	391	COVID	

Harding University EPP - 2016 Completer Cohort (Year 1 = 2016-2017)

| | 2016-17 | | 2017-18 | | 2018-19 | |
	VAS	N	VAS	N	VAS	N
ELA	80.38	19	79.96	21	80.93	19
MATH	80.65	23	78.8	24	81.88	23
SCIENCE	76.9	12	81.73	13	79.89	14

All AR Providers EPP - 2016 Completer Cohort (Year 1 = 2016-2017)

| | 2016-17 | | 2017-18 | | 2018-19 | |
	VAS	N	VAS	N	VAS	N
ELA	78.84	635	79.43	607	79.29	556
MATH	78.66	646	79.28	642	79.91	583
SCIENCE	87.74	236	79.83	218	79.34	219

Harding University EPP - 2015 Completer Cohort (Year 1 = 2015-2016)

| | 2015-16 | | 2016-17 | | 2017-18 | |
	VAS	N	VAS	N	VAS	N
ELA	80.33	40	80.52	31	80.95	26
MATH	80.35	33	79.92	26	81.37	19
SCIENCE	NA	NA	100	16	80.2	20

All AR Providers EPP - 2015 Completer Cohort (Year 1 = 2015-2016)

| | 2015-16 | | 2016-17 | | 2017-18 | |
	VAS	N	VAS	N	VAS	N
ELA	77.94	971	79.65	653	79.48	626
MATH	78.63	956	79.73	662	79.46	635
SCIENCE	NA	NA	85.69	406	79.27	438