

# Alabama PACT

*12/31/2020 Quarterly Valuation*

*February 2021*

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Alabama PACT Board

Sherman Actuarial Services, LLC (SAS) was retained to report on the funding status and projected cash flows of PACT as of December 31, 2020. Since this is a quarterly valuation, there is less detail provided than in the full valuation as of September 30, 2020. The Summary of Funding section on page 4 describes the current results and compares those results to the September 30, 2020 valuation.

## Assumptions and Methods

### 1. Data and Assets

The valuation was performed using contract data supplied by the Plan Administrator as of December 31, 2020 and financial data reported to you as of December 31, 2020. SAS did not audit the data although they were reviewed for reasonableness and consistency with the audited September 30, 2020 information. The results of the analysis are dependent on the accuracy of the data.

The asset value as of December 31, 2020 was \$99,142,733.

### 2. Weighted Average Tuition (WAT)

The assumed WAT values are shown in the following table. The assumed credit hours were unchanged from the September 30, 2020 valuation at 13 hours per semester. The December 31<sup>st</sup> results are based on the weighting of PACT beneficiaries from recent experience, the 2010 tuition rates, and an increase of 3% as of September 1, 2015, an increase of 6% as of September 1, 2016, an increase of 8% as of September 1, 2017, an increase of 7% as of September 1, 2018, an increase of 7% as of September 1, 2019 and an increase of 7% as of September 1, 2020.

	September 30, 2020	December 31, 2020
	Valuation	Valuation
Auburn/Alabama	\$10,926	\$10,926
Regional	8,462	8,462
Junior & CC	4,896	4,896
OOS & Private	9,008	9,008

### 3. Tuition Inflation

For the December 31, 2020 valuation, we assumed a tuition inflation assumption of 0% per year.

### 4. Investment return

The investment return assumption was unchanged from the September 30, 2020 valuation as shown below.

Fiscal Year	September 30, 2020	December 31, 2020
<u>Ending</u>	<u>Valuation</u>	<u>Valuation</u>
2021	0.15%	0.15%
2022-23	0.15%	0.15%
2024	0.00%	0.00%
2025	0.00%	0.00%
2026	0.00%	0.00%
2027	0.40%	0.40%
2028	1.00%	1.00%

### 5. Payment of Tuition

The December 31, 2020 valuation assumed usage of 128 credit hours at a rate of 13 hours per semester, which is the same as was assumed for the September 30, 2020 valuation.

### 6. Education Trust Fund Payments

We assumed total future contributions of \$233,466,400 from the Education Trust Fund into the PACT Trust Fund. These payments have a present value of \$209,531,633.

### 7. Cancellations

The assumed cancellation of PACT contracts based on the grade of the beneficiary was unchanged from that assumed as of September 30, 2020 and are shown below.

Age 0 through 9th grade	0% per year
10th grade	1%
11th grade	1%
12th grade	1%

### 8. School Choice

Contract beneficiaries are assumed to attend school according to the probabilities shown in the following table:

<u>College Type</u>	<u>September 30, 2020</u>	<u>December 31, 2020</u>
Private/Out-of-State	17%	17%
Community College	15%	15%
University of Alabama and Auburn University	53%	53%
Other Alabama Universities	15%	15%

## 9. Administration Expenses

For the December 31, 2020 valuation, we assumed the administrative expenses will be \$450,000 for the remainder of FYE21, \$600,000 for future fiscal years through 2027. From 2028 to 2031 it is lowered \$100,000 per year.

## 10. Discount Rate

For the December 31, 2020 valuation, we assumed a discount rate of 3.5% to determine the present value of payments to be received and benefits to be paid.

## 11. Other

All other assumptions and methods are identical to those used in the September 30, 2020 actuarial valuation.

## Purpose of This Report

This report is prepared for the PACT Board. It is expected that this report will be used to monitor the funding status and projected cash flows of the PACT. Use of this report for any other purpose may not be appropriate and may result in mistaken conclusions due to failure to understand applicable assumptions, methodologies, or inapplicability of the report for that purpose. No one may make any representations or warranties based on any statements or conclusions contained in this report without the written consent of SAS.

## Qualifications

Daniel Sherman is an Associate of the Society of Actuaries, and a Member of the American Academy of Actuaries. He served as the actuary to the Alabama PACT plan for eleven years, and is the current actuary for the Texas, and West Virginia prepaid tuition programs. He meets the Qualification Standards of the Academy to render the actuarial opinions contained herein. This report has been prepared in accordance with all applicable Actuarial Standards of Practice, and we are available to answer questions concerning it.

SHERMAN ACTUARIAL SERVICES, LLC



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Daniel Sherman, ASA, MAAA  
CEO and Consulting Actuary

**Summary of Funding**

The table below is a summary of the results showing the total costs to maintain the program as of December 31, 2020. Note that although the funded status is 123.7%, the cash flow projections show that the fund will need to be monitored in order to maintain sufficient assets.

	<b>September 30, 2020 Annual Valuation</b>	<b>December 31, 2020 Valuation</b>
<b>Assets</b>		
a. Market Value of Assets	99,965,199	99,142,733
b. Present Value of future contract purchaser payments	2,467,299	2,209,729
c. Administrative Expenses	(4,914,672)	(4,766,570)
d. Present Value of Education Trust Fund payments	217,416,567	209,531,633
e. Subtotal (a + b + c + d)	314,934,393	306,117,525
<b>Liabilities</b>		
f. Present Value of tuition and cancellation payments	263,101,765	246,592,469
<b>Funded Status</b>		
g. Reserve (e – f)	51,832,765	59,525,056
h. Funded Ratio	119.3%	123.7%

**Projected Cash Flow**  
**December 31, 2020 Valuation**  
**(millions)**

Fiscal Year	Benefit Payments	Contract Holder Payments	Education Trust Fund Payments	Admin Expenses	Income	EOY Assets
12/31/2020						\$ 99,100
1/1/21 - 09/30/21	-\$ 37,800	\$ 1,000	\$ 23,900	-\$ 450	\$ 150	85,900
10/01/21 - 09/30/22	-64,900	700	32,200	-600	0	53,300
10/01/22 - 09/30/23	-51,100	300	33,500	-600	100	35,500
10/01/23 - 09/30/24	-40,600	200	33,700	-600	0	28,200
10/01/24 - 09/30/25	-30,400	100	38,400	-600	0	35,700
10/01/25 - 09/30/26	-18,100	0	39,200	-600	0	56,200
10/01/26 - 09/30/27	-10,400	0	32,500	-600	300	77,900
10/01/27 - 09/30/28	-7,000	0	0	-500	700	71,100
10/01/28 - 09/30/29	-4,600	0	0	-400	700	66,800
10/01/29 - 09/30/30	-2,400	0	0	-300	700	64,800
10/01/30 - 09/30/31	-900	0	0	-200	600	64,300
10/01/31 - 09/30/32	-100	0	0	-100	600	64,700
Total	-\$ 268,300	\$ 2,300	\$ 233,400	-\$ 5,550		

The sum of the values may not match the total shown due to rounding.

Assumptions

- Settlement
- Fall 2010 Tuition rates, increased 3% as of September 1, 2015, 6% as of September 1, 2016, 8% as of September 1, 2017, 7% as of September 1, 2018, 7% as of September 1, 2019, 7% as of September 1, 2020
- Tuition Inflation at 0%
- Normal Cancellation rates