

## Audited Financial Statements

The Pennsylvania State University Fiscal Year Ended June 30, 2018

#### THE PENNSYLVANIA STATE UNIVERSITY

#### **UNIVERSITY OFFICERS**

as of October 23, 2018

#### **ERIC J. BARRON**

President

#### STEPHEN S. DUNHAM

Vice President and General Counsel

#### **DAVID J. GRAY**

Senior Vice President for Finance and Business/Treasurer

#### A. CRAIG HILLEMEIER

Dean, Penn State College of Medicine; Chief Executive Officer, Penn State Health; and Senior Vice President for Health Affairs, Penn State University

#### **NICHOLAS P. JONES**

Executive Vice President and Provost

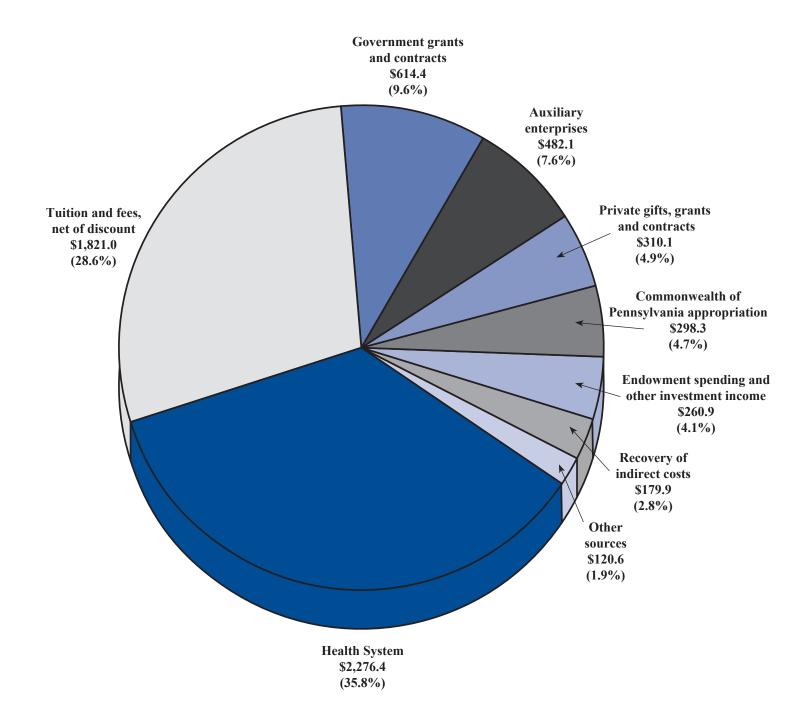
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### **OPERATING REVENUES BY SOURCE (\$6.4 billion)**

### For the Year Ended June 30, 2018

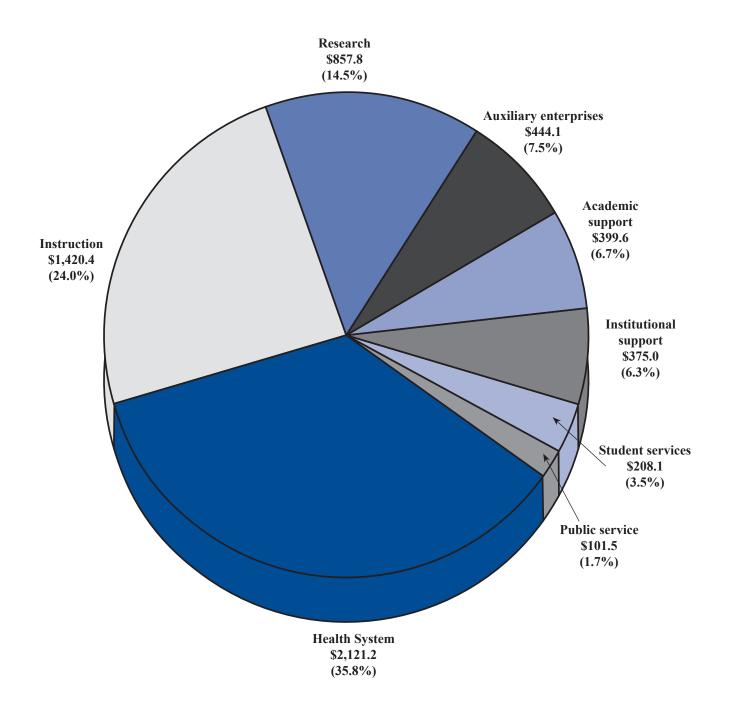
(\$ in millions)



### **OPERATING EXPENSES BY FUNCTION (\$5.9 billion)**

### For the Year Ended June 30, 2018

(\$ in millions)







Office of the Corporate Controller

The Pennsylvania State University 408 Old Main University Park, PA 16802-1505 (814) 865-1355 FAX: (814) 863-0701

October 23, 2018

Dr. Eric J. Barron, President The Pennsylvania State University 201 Old Main University Park, PA 16802

#### Dear Dr. Barron:

The audited consolidated financial statements of The Pennsylvania State University and subsidiaries (the "University") for the fiscal years ended June 30, 2018 and 2017 are presented on the accompanying pages. These financial statements represent a complete and permanent record of the finances of the University as of and for the years then ended.

These financial statements have been audited by Deloitte & Touche LLP, independent auditors, and their report has been made a part of this record.

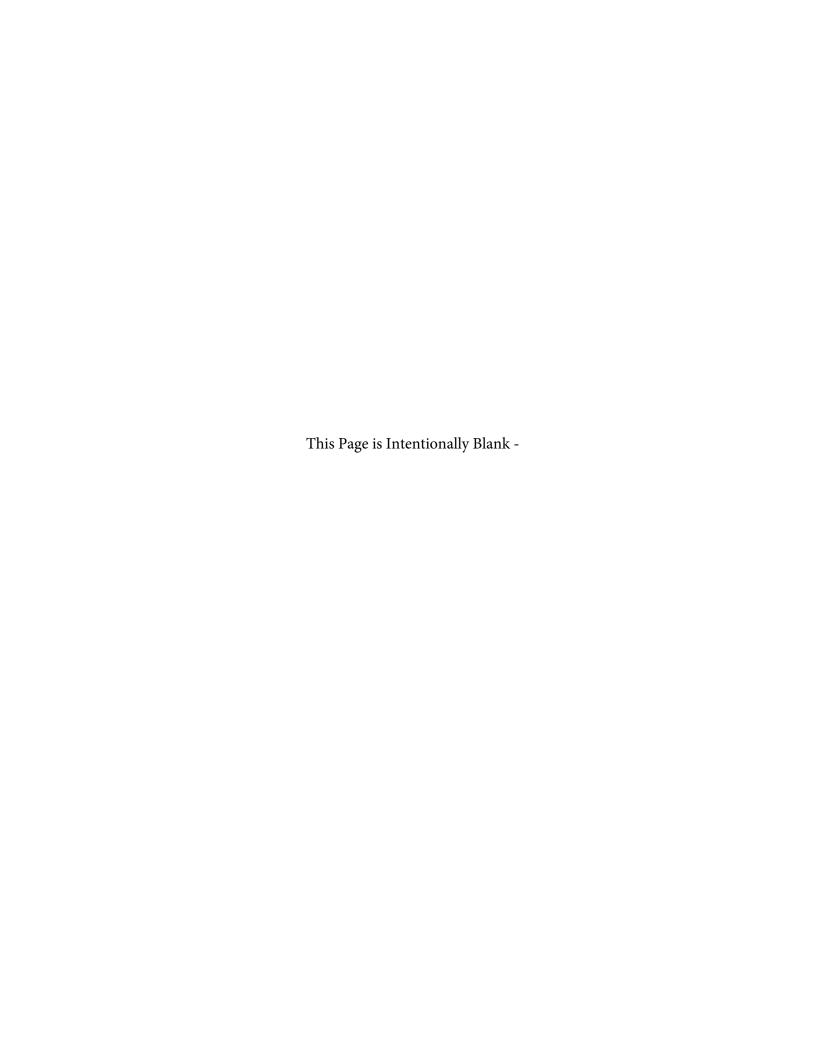
Respectfully submitted,

Joseph J. Doncsecz

Associate Vice President for Finance and Corporate Controller

David J. Gray

Senior Vice President for Finance and Business, and Treasurer





Deloitte & Touche LLP 1700 Market Street Philadelphia, PA 19103-3984

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#### INDEPENDENT AUDITORS' REPORT

To the Board of Trustees of The Pennsylvania State University University Park, Pennsylvania

We have audited the accompanying consolidated financial statements of The Pennsylvania State University and its subsidiaries (the "University"), which comprise the consolidated statements of financial position as of June 30, 2018 and 2017, and the related consolidated statements of activities and cash flows for the years then ended, and the related notes to the consolidated financial statements.

#### Management's Responsibility for the Consolidated Financial Statements

Management is responsible for the preparation and fair presentation of these consolidated financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of consolidated financial statements that are free from material misstatement, whether due to fraud or error.

#### Auditors' Responsibility

Our responsibility is to express an opinion on these consolidated financial statements based on our audits. We conducted our audits in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the consolidated financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the consolidated financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the consolidated financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the University's preparation and fair presentation of the consolidated financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the University's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the consolidated financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

#### Opinion

In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the financial position of the University as of June 30, 2018 and 2017, and the changes in its net assets and its cash flows for the years then ended in accordance with accounting principles generally accepted in the United States of America.

October 23, 2018

Deloitte & Touche UP

# THE PENNSYLVANIA STATE UNIVERSITY CONSOLIDATED STATEMENTS OF FINANCIAL POSITION ASSETS JUNE 30, 2018 AND 2017

#### 2 30, 2010 AND 201

(in thousands)

	June 30, 2018	June 30, 2017
Current assets:		
Cash and cash equivalents	\$ 2,089,105	\$ 1,761,703
Short-term investments	331,421	325,758
Deposits held by bond trustees	87,459	138,954
Deposits held for others	36,845	37,031
Accounts receivable, net of allowances of \$84,647 and \$88,731	568,924	542,603
Contributions receivable, net	62,318	60,893
Loans to students, net of allowances of \$639 and \$570	9,352	9,461
Inventories	48,721	48,152
Prepaid expenses and other assets	109,481	105,807
Total current assets	3,343,626	3,030,362
Noncurrent assets:		
Deposits held by bond trustees	15,200	40,000
Contributions receivable, net	134,167	140,165
Loans to students, net of allowances of \$2,804 and \$2,548	50,015	49,121
Total investment in plant, net	5,248,322	4,921,412
Beneficial interest in perpetual trusts	23,587	19,854
Investments	6,065,540	5,716,986
Other assets	136,815	112,391
Total noncurrent assets	11,673,646	10,999,929

Total assets \$15,017,272 \$14,030,291

# THE PENNSYLVANIA STATE UNIVERSITY CONSOLIDATED STATEMENTS OF FINANCIAL POSITION LIABILITIES AND NET ASSETS JUNE 30, 2018 AND 2017

(in thousands)

	June 30, 2018	June 30, 2017
Current liabilities:		
Accounts payable and other accrued expenses	\$ 712,590	\$ 689,885
Deferred revenue	358,004	341,261
Long-term debt	57,164	49,432
Present value of annuities payable	6,781	6,574
Accrued postretirement benefits	61,286	56,466
Total current liabilities	1,195,825	1,143,618
Noncurrent liabilities:		
Deposits held in custody for others	28,031	32,724
Deferred revenue	783	1,218
Long-term debt	1,393,013	1,419,961
Present value of annuities payable	52,455	51,496
Accrued postretirement benefits	2,132,269	2,261,996
Refundable United States Government student loans	46,708	46,713
Other liabilities	243,794	230,067
Total noncurrent liabilities	3,897,053	4,044,175
Total liabilities	5,092,878	5,187,793
Net assets:		
Unrestricted -		
Undesignated	1,743	1,692
Designated for specific purposes	3,878,698	3,350,691
Net investment in plant	3,316,763	3,169,239
Total unrestricted - The Pennsylvania State University	7,197,204	6,521,622
Noncontrolling interest	223,647	4,609
Total unrestricted	7,420,851	6,526,231
Temporarily restricted	784,883	708,103
Permanently restricted	1,718,660	1,608,164
Total net assets	9,924,394	8,842,498
Total liabilities and net assets	\$15,017,272	\$14,030,291

# THE PENNSYLVANIA STATE UNIVERSITY CONSOLIDATED STATEMENT OF ACTIVITIES FOR THE YEAR ENDED JUNE 30, 2018

(in thousands)

	Unrestricted	Temporarily Restricted	Permanently Restricted	Total
Operating revenues and other support:				
Tuition and fees, net of discounts of \$214,774	\$ 1,820,971	\$ -	\$ -	\$ 1,820,971
Commonwealth of Pennsylvania -				
Appropriations	298,312	-	-	298,312
Special contracts	70,800	-	-	70,800
Department of General Services projects	47,809	-	-	47,809
United States Government grants and contracts	495,851	=	=	495,851
Private grants and contracts	222,350	-	=	222,350
Gifts and pledges	75,367	12,433	=	87,800
Endowment spending	105,183	4 500	-	105,183
Other investment income	154,092	1,598	-	155,690
Sales and services of educational activities	100,992	-	-	100,992
Recovery of indirect costs	179,879	-	-	179,879
Auxiliary enterprises	482,089	-	-	482,089
Health System revenue, net of provision for bad debts of \$50,660	2,276,366	-	-	2,276,366
Other sources	19,648	(4.040)	-	19,648
Net assets released from restrictions	4,318	(4,318)		
Total operating revenues and other support	6,354,027	9,713		6,363,740
Operating expenses:				
Educational and general -				
Instruction	1,420,364	-	-	1,420,364
Research	857,786	-	-	857,786
Public service	101,470	-	-	101,470
Academic support	399,597	-	-	399,597
Student services	208,112	-	-	208,112
Institutional support	375,025			375,025
Total educational and general	3,362,354	-	-	3,362,354
Auxiliary enterprises	444,125	-	-	444,125
Health System expense	2,121,177			2,121,177
Total operating expenses	5,927,656			5,927,656
Increase in net assets from operating				
activities	426,371	9,713	-	436,084
Nonoperating activities:				
Gifts and pledges	_	_	99,039	99,039
Current year investment returns	94,495	69,206	13,543	177,244
Endowment appreciation utilized	(73,903)	-	-	(73,903)
Changes in funds held by others in perpetuity	(* -,) -	_	3,732	3,732
Write-offs and disposals of assets	(14,887)	_	-	(14,887)
Nonperiodic change in postretirement benefit plan	243,506	-	_	243,506
Actuarial adjustment on annuities payable		(2,139)	(5,818)	(7,957)
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Increase in net assets from nonoperating activities	249,211	67,067	110,496	426,774
Increase in net assets - The Pennsylvania	,		,	
State University	675,582	76,780	110,496	862,858
-	,	-,	.,	,
Noncontrolling interest:	200.000			200 000
Capital contributions - Health System	200,000	-	-	200,000
Excess of revenues over expenses Increase in net assets - noncontrolling interest	<u>19,038</u> 219,038			<u>19,038</u> 219,038
Increase in total net assets	894,620	76,780	110,496	1,081,896
Net assets at the beginning of the year				
	6,526,231	708,103	1,608,164	8,842,498
Net assets at the end of the year	\$ 7,420,851	\$ 784,883	\$ 1,718,660	\$ 9,924,394

See notes to consolidated financial statements.

# THE PENNSYLVANIA STATE UNIVERSITY CONSOLIDATED STATEMENT OF ACTIVITIES FOR THE YEAR ENDED JUNE 30, 2017

(in thousands)

	Unrestricted	Temporarily Restricted	Permanently Restricted	Total
Operating revenues and other support:	<b>.</b> . <b></b>	•	•	<b>4</b> 4 <b>7</b> 00 400
Tuition and fees, net of discounts of \$205,002	\$ 1,786,430	\$ -	\$ -	\$ 1,786,430
Commonwealth of Pennsylvania -	000 704			202 704
Appropriations	296,764	-	-	296,764
Special contracts	68,933	-	-	68,933
Department of General Services projects	47,500	-	-	47,500
United States Government grants and contracts	479,717	-	-	479,717
Private grants and contracts	216,596	-	=	216,596
Gifts and pledges	62,906	24,631	=	87,537
Endowment spending	98,521	-	-	98,521
Other investment income	140,235	1,046	-	141,281
Sales and services of educational activities	84,508	=	=	84,508
Recovery of indirect costs	171,442	=	=	171,442
Auxiliary enterprises	465,716	=	=	465,716
Health System revenue, net of provision for bad debts of \$46,251	2,073,496	=	=	2,073,496
Other sources	40,628	-	=	40,628
Net assets released from restrictions	2,859	(2,859)		
Total operating revenues and other support	6,036,251	22,818		6,059,069
Operating expenses:				
Educational and general -				
Instruction	1,402,451	=	=	1,402,451
Research	810,985	-	-	810,985
Public service	100,573	-	-	100,573
Academic support	404,098	-	-	404,098
Student services	204,943	-	-	204,943
Institutional support	400,646	-	-	400,646
Total educational and general	3,323,696			3,323,696
Auxiliary enterprises	426,204	-	-	426,204
Health System expense	1,927,155	-	-	1,927,155
Total operating expenses	5,677,055			5,677,055
Increase in net assets from operating				
activities	359,196	22,818	_	382,014
	555,150	22,010		302,014
Nonoperating activities:			00 500	00.500
Gifts and pledges	-	-	83,529	83,529
Current year investment returns	160,882	136,561	9,056	306,499
Endowment appreciation utilized	(75,871)	-	-	(75,871)
Changes in funds held by others in perpetuity	- (4.045)	-	5,204	5,204
Write-offs and disposals of assets	(4,815)	=	=	(4,815)
Nonperiodic change in postretirement benefit plan	(51,116)	-	<del>-</del>	(51,116)
Actuarial adjustment on annuities payable		(2,349)	(8,463)	(10,812)
Increase in net assets from nonoperating				
activities	29,080	134,212	89,326	252,618
Increase in net assets - The Pennsylvania				
State University	388,276	157,030	89,326	634,632
	000,270	107,000	00,020	001,002
Noncontrolling interest:				
Excess of revenues over expenses	922			922
Increase in net assets - noncontrolling interest	922			922
Increase in total net assets	389,198	157,030	89,326	635,554
Net assets at the beginning of the year	6,137,033	551,073	1,518,838	8,206,944
Net assets at the end of the year	\$ 6,526,231	\$ 708,103	\$ 1,608,164	\$ 8,842,498

See notes to consolidated financial statements.

# THE PENNSYLVANIA STATE UNIVERSITY CONSOLIDATED STATEMENTS OF CASH FLOWS FOR THE YEARS ENDED JUNE 30, 2018 AND 2017 (in thousands)

Cash flows from operating activities:	June 30, 2018	June 30, 2017
Increase in net assets	\$ 1,081,896	\$ 635,554
Adjustments to reconcile change in net assets to net cash provided by operating activities -	7.057	40.040
Actuarial adjustment on annuities payable	7,957	10,812
Contributions restricted for long-term investment	(93,274)	(98,202)
Interest and dividends restricted for long-term investment	(89,759)	(78,598)
Net realized and unrealized (gains) losses on long-term investments	(258,722)	(408,457)
Capital contributions - Health System	(200,000)	250 524
Depreciation expense	371,570	350,531
Amortization expense	(194)	(52)
Loss on early extinguishment of debt	45.005	3,688
Write-offs and disposals of assets	15,905	5,126
Contributions of land, buildings and equipment	(6,625)	(2,960) 154
Contribution to government student loan funds Provision for bad debts	62,616	63.136
	186	,
Decrease (increase) in deposits held for others Increase in receivables		(26,792)
Increase in inventories	(121,554) (622)	(95,725) (5,679)
Increase in prepaid expenses and other assets	(41,911)	(954)
(Decrease) increase in accounts payable and other accrued expenses	(7,423)	118,800
Increase in deferred revenue	16,309	26,319
		169,939
(Decrease) increase in accrued postretirement benefits  Net cash provided by operating activities	(124,909) 611,446	666,640
Net cash provided by operating activities	011,440	000,040
Cash flows from investing activities:		
Purchase of land, buildings and equipment	(681,899)	(647,429)
Decrease (increase) in deposits held by bond trustees	76,295	(47,867)
Advances on student loans	(10,121)	(10,652)
Collections on student loans	8,490	10,900
Proceeds from sale of donated financial assets	-	236
Purchase of investments	(3,184,549)	(3,761,462)
Proceeds from sale of investments	3,156,165	3,720,543
Net cash used in investing activities	(635,619)	(735,731)
•		
Cash flows from financing activities:		
Contributions restricted for long-term investment	93,274	98,202
Interest and dividends restricted for long-term investment	89,759	78,598
Capital contributions - Health System	200,000	<del>-</del>
Payments of annuity obligations	(6,810)	(6,602)
Proceeds from long-term debt	74,607	368,213
Principal payments on long-term debt	(99,675)	(103,303)
Proceeds related to government student loan funds, net of collection costs	420	172
Net cash provided by financing activities	351,575	435,280
Net increase in cash and cash equivalents	327,402	366,189
Cash and cash equivalents at the beginning of the year	1,761,703	1,395,514
Cash and cash equivalents at the end of the year	\$ 2,089,105	\$ 1,761,703

Supplemental disclosures of cash flow information (Note 2)

## THE PENNSYLVANIA STATE UNIVERSITY NOTES TO CONSOLIDATED FINANCIAL STATEMENTS FOR THE YEARS ENDED JUNE 30, 2018 AND 2017

#### 1. THE UNIVERSITY AND RELATED ENTITIES

The Pennsylvania State University ("the University"), which was created as an instrumentality of the Commonwealth of Pennsylvania ("the Commonwealth" or "Pennsylvania"), is organized as a non-profit corporation under the laws of the Commonwealth. As Pennsylvania's land grant university, the University is committed to improving the lives of the people of Pennsylvania, the nation and the world through its integrated, tri-part mission of high-quality teaching, research and outreach.

#### Basis of Presentation

The financial statements of the University include, on a consolidated basis, the consolidated financial statements of Penn State Health ("the Health System"), a Pennsylvania non-profit corporation, and its wholly owned subsidiaries, and the financial statements of The Corporation for Penn State and its subsidiaries ("the Corporation"). See Note 11 for additional information about the Health System. The Corporation is a non-profit member corporation organized in 1985 for the exclusive purpose of benefiting and promoting the interests of the University, the Corporation's sole member. The Corporation's financial statements consist primarily of the assets and revenues of The Pennsylvania College of Technology ("Penn College"), a wholly owned subsidiary of the Corporation. All transactions among the University, the Health System, and the Corporation have been eliminated.

#### 2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

#### Basis of Accounting

The University's consolidated financial statements are prepared on the accrual basis of accounting in conformity with accounting principles generally accepted in the United States of America (GAAP). The Financial Accounting Standards Board (FASB) Accounting Standards Codification (ASC) is the source of authoritative GAAP.

The University's consolidated financial statements include statements of financial position, activities and cash flows. In accordance with FASB ASC requirements, net assets and the changes in net assets are classified as permanently restricted, temporarily restricted or unrestricted.

Permanently restricted net assets consist primarily of the historical amounts of endowed gifts. Additionally, contributions receivable and remainder interests, which are required by donors to be permanently retained, are included at their estimated net present values.

Temporarily restricted net assets consist of contributions receivable and remainder interests whose ultimate use is not permanently restricted. In addition, the excess of current market value over the historical cost of permanently restricted endowments is classified as temporarily restricted net assets.

*Unrestricted* net assets are all the remaining net assets of the University. Net unrealized losses on permanently restricted endowment funds for which historical cost exceeds market value are recorded as a reduction to unrestricted net assets.

Revenue from temporarily restricted sources is reclassified as unrestricted revenue when the circumstances of the restriction have been fulfilled. Donor-restricted revenues whose restrictions are met within the same fiscal year are reported as unrestricted income.

#### Use of Estimates

The preparation of financial statements in conformity with GAAP requires management to make estimates and assumptions that affect the reported amounts on the financial statements and the disclosure of contingencies and commitments. Actual results could differ from those estimates.

#### Revenue Recognition

Tuition revenue is recognized in the fiscal year in which the substantial portion of the educational term occurs. Institutional financial aid provided by the University for tuition and fees is reflected as a reduction of tuition and fee revenue. Revenues for auxiliary enterprises are recognized as the related goods and services are delivered and rendered. Grant revenues are recognized as the eligible grant activities are conducted. Payments received in advance for tuition, goods and services are deferred.

Unconditional promises to give are recognized as revenues and receivables in the year made and consist of written or oral promises to contribute to the University in the future. Contributions receivable are recorded with the revenue assigned to the appropriate category of restriction. The amounts are present valued based on timing of expected collections.

The Health System has agreements with third-party payors that provide for payments to its subsidiaries at amounts different from their established rates. Payment arrangements include prospectively determined rates per discharge, reimbursed costs, discounted charges and per diem payments. Net patient service revenue is reported at the estimated net realizable amounts from patients, third-party payors and others for services rendered, including estimated retroactive adjustments under reimbursement agreements with third-party payors. In addition, net patient service revenue is net of provision for bad debts of \$50.7 million and \$46.3 million for the years ended June 30, 2018 and 2017, respectively. Retroactive adjustments are accrued on an estimated basis in the period the related services are rendered and adjusted in future periods as final settlements are determined or such estimates change.

The subsidiaries of the Health System provide care to patients who meet certain criteria under its charity care policy without charge or at amounts less than established rates. The Health System does not pursue collection of amounts determined to qualify as charity care; these amounts are not reported as net patient service revenue. The amounts of direct and indirect costs for services and supplies furnished under the Health System's charity care policy totaled approximately \$26.0 million and \$27.4 million for the years ended June 30, 2018 and 2017, respectively, and is based on a ratio of the Health System's operational costs to its gross charges. The amount of charges foregone for services and supplies furnished under the Health System's charity policy totaled approximately \$53.2 million during 2018 and 2017, respectively.

#### Fair Value of Financial Instruments

The University has provided fair value estimates for certain financial instruments. Fair value information presented in the financial statements is based on information available at June 30, 2018 and 2017. The carrying amounts of cash and cash equivalents, accounts receivable and accounts payable and other accrued expenses approximate fair value because of the terms and relatively short maturity of these financial instruments. The carrying values of the University's loans to students are also reasonable estimates of their fair value, as the total outstanding loans to students as of June 30, 2018 and 2017 have been made at the rates available to students for similar loans at such times. Investments are reported at fair value as disclosed in Note 3. The fair value of the University's bonds payable is disclosed in Note 7. See Note 5 for further discussion of fair value measurements.

#### Cash Flows

The following items are included as supplemental disclosure to the statements of cash flows for the years ended June 30:

(in thousands of dollars)	2018	2017
Interest paid	\$ 51,533	\$ 42,826
Non-cash acquisitions of land, buildings		
and equipment	12.426	33.010

Capitalized costs accrued related to construction are \$88.7 million and \$73.6 million as of June 30, 2018 and 2017, respectively. Taxes paid for 2018 and 2017 are considered immaterial. Cash and cash equivalents include certain investments in highly liquid instruments with initial maturities of 90 days or less, except for such assets held by the University's investment managers as part of their long-term investment strategies. Short-term investments include other current investments held for general operating purposes with maturities greater than 3 months but less than 12 months.

#### Accounts Receivable

Accounts receivable, net at June 30 consists of the following:

(in thousands of dollars)	<u>2018</u>	<u>2017</u>
Grants and contracts, net of allowance of \$2,267 and \$2,214	\$ 181,641	\$ 187,903
Patient accounts receivable, net of allowance of \$61,634 and \$61,448	250,789	197,613
Student receivables, net of allowance of \$13,840 and \$18,500 Investment and interest receivable	49,102 7.990	54,162 47,197
Other, net of allowance of \$6,906 and \$6,569	79,402	55,728
Total accounts receivable, net	\$ 568,924	\$ 542,603

The University maintains allowances for doubtful accounts to reflect management's best estimate of probable losses inherent in receivable balances. Management determines the allowances for doubtful accounts based on known factors, historical experience, and other currently available evidence. Receivables are written off when management determines they will not be collected.

Related to patient accounts receivable associated with services provided to patients who have third-party coverage, management analyzes contractually due amounts and provides an allowance for doubtful accounts (for example, for expected uncollectible deductibles and copayments or for payors who are known to be having financial difficulties that make the realization of amounts due unlikely). For receivables from self-pay patients, the subsidiaries of the Health System record a provision for bad debts in the period of service on the basis of past experience, which indicates that many patients are unable or unwilling to pay the portion of their bill for which they are financially responsible. In estimating the allowance for doubtful accounts, account age is taken into consideration. The difference between the standard rates (or the discounted rates if negotiated) and the amounts actually collected after all reasonable collection efforts have been exhausted is charged off against the allowance for doubtful accounts.

#### Loans to Students

Loans to students are disbursed to qualified students based on need and include loans granted by the University from institutional resources and under federal government loan programs. Students have a grace period until repayment is required based upon the earlier of graduation or no longer achieving at least half-time enrollment status. The grace period varies depending on the type of loan. Loans accrue interest after the grace period and are repaid directly to the University. Loans to students are uncollateralized and carry default risk. At June 30, 2018 and 2017, student loans represent 0.4% of total assets, respectively.

The availability of funds for loans under federal government revolving loan programs is dependent on reimbursements to the pool from repayments of outstanding loans. Funds advanced by the federal government of \$46.7 million at June 30, 2018 and 2017, are ultimately refundable to the government and are classified as liabilities in the consolidated statements of financial position. Outstanding loans cancelled under the program result in a reduction of the funds available to loan and a decrease in the liability to the federal government.

Loans to students consisted of the following at June 30:

(in thousands of dollars)	<u>2018</u>			<u>2017</u>	
Loans to students: Federal government loan programs:	\$	42.720	\$	40.770	
Perkins loan program Health Professions Student Loans and Loans for Disadvantaged Students	Ψ 	20	Φ	42,772 39	
Federal government loan programs Institutional loan programs		42,740 20,070 62,810		42,811 18,889 61,700	
Less allowance for doubtful accounts: Balance, beginning of year Provision for doubtful accounts Balance, end of year		(3,118) (325) (3,443)		(2,526) (592) (3,118)	
Loans to students, net	\$	59,367	\$	58,582	

Allowances for doubtful accounts are established based on prior collection experience and current economic factors which, in management's judgment, could influence the ability of loan recipients to repay the amounts according to the terms of the loan. Further, the University does not evaluate credit quality of student loans receivable after the initial approval of the loan. Loans to students are considered past due when payment is not received by the due date, and interest continues to accrue until the loan is paid in full or written off. When loans to students are deemed uncollectible, an allowance for doubtful accounts is established.

The University considers the age of the amounts outstanding in determining the collectability of loans to students. The aging of the loans to students based on days delinquent and the related allowance for doubtful accounts at June 30 are as follows:

	101101101	(in t	housands of dollar	rs)	
2040	45 days <u>or less</u>	46-75 days	76-105 <u>days</u>	Over <u>105 days</u>	<u>Total</u>
2018 Loans to students: Federal government loan programs Institutional loan programs	\$ 36,928 	\$ 37 22	\$ 43 19	\$ 5,732 2,757	\$ 42,740 20,070
Total loans to students	54,200	59	62	8,489	62,810
Allowance for doubtful accounts: Federal government loan					
programs Institutional loan programs					(594) (2,849)
Total allowance for doubtful accounts					(3,443)
Total loans to students, net					<u>\$ 59,367</u>
2017 Loans to students:	45 days <u>or less</u>	(in t 46-75 days	housands of dollar 76-105 <u>days</u>	os) Over <u>105 days</u>	<u>Total</u>
		·	76-105	Over	Total \$ 42,811 18,889
Loans to students: Federal government loan programs	or less \$ 36,638	46-75 days \$ 31	76-105 <u>days</u> \$ 37	Over 105 days \$ 6,105	\$ 42,811
Loans to students: Federal government loan programs Institutional loan programs  Total loans to students  Allowance for doubtful accounts:	or less \$ 36,638 	46-75 days \$ 31 21	76-105 days \$ 37 16	Over 105 days \$ 6,105 2,796	\$ 42,811 18,889
Loans to students: Federal government loan programs Institutional loan programs  Total loans to students  Allowance for doubtful accounts: Federal government loan programs Institutional loan programs	or less \$ 36,638 	46-75 days \$ 31 21	76-105 days \$ 37 16	Over 105 days \$ 6,105 2,796	\$ 42,811 18,889
Loans to students: Federal government loan programs Institutional loan programs  Total loans to students  Allowance for doubtful accounts: Federal government loan programs	or less \$ 36,638 	46-75 days \$ 31 21	76-105 days \$ 37 16	Over 105 days \$ 6,105 2,796	\$ 42,811 18,889 61,700

#### Inventories

Inventories are stated at the lower of cost or net realizable value on the first-in, first-out basis.

#### <u>Investments</u>

The University's noncurrent investments represent the University's endowment and other investments held for general operating purposes. The University's investments are reported at fair value in the accompanying financial statements. Investments in equity securities with readily determinable fair values and all investments in debt securities are reported at fair values with gains and losses included in the consolidated statements of activities. In the management of investments, the University authorizes certain investment managers to purchase derivative securities to attain a desired market position; and the University may directly invest in derivative securities to attain a desired market position. The University does not trade or issue derivative financial instruments other than through the investment management practices noted above. The University

records derivative securities at fair value with gains and losses reflected in the consolidated statements of activities.

The estimated fair value amounts for marketable debt, equity and fixed income securities held by the University have been determined using available market information as supplied by the various financial institutions that act as trustees or custodians for the University. For non-liquid holdings, generally limited partnership investments in private real estate, venture capital, private equity, natural resources, and private debt, estimated fair value is determined based upon financial information provided by the general partner. This financial information includes assumptions and methods that were reviewed by University management. The University believes that the estimated fair value is a reasonable estimate of market value as of June 30, 2018 and 2017. Because the limited partnerships are not readily marketable, the estimated value is subject to uncertainty and, therefore, may differ from the value that would have been used had a ready market existed, and such differences could be material.

Income on operating investments and income used for the annual distribution under the annual spending policy for endowments are reported in operating revenues within the consolidated statement of activities.

#### Beneficial Interest in Perpetual Trusts

The University is the beneficiary of certain perpetual trusts held and administered by outside trustees. The fair value of these trust assets has been recorded as permanently restricted net assets and related beneficial interest in perpetual trusts in the consolidated financial statements.

#### Investment in Plant

Total investment in plant as of June 30 is comprised of the following:

(in thousands of dollars)	<u>2018</u>		<u>2017</u>
Land	\$ 149,603	\$	134,153
Buildings	7,218,469		6,771,677
Improvements other than buildings	706,585		678,049
Equipment	1,612,938		1,497,053
Total plant	9,687,595		9,080,932
Less accumulated depreciation	(4,439,273	)	(4,159,520)
Total investment in plant, net	\$ 5,248,322	\$	4,921,412

The value of land, buildings, and equipment is recorded at cost or, if received as gifts, at fair value at date of gift commitment. The University does not capitalize the cost of library books. Depreciation is computed over the estimated useful lives of the assets using the straight-line method. Useful lives range from 4 to 50 years for buildings, 10 to 20 years for improvements other than buildings, and 1 to 20 years for equipment. Depreciation expense was \$371.6 million and \$350.5 million for the fiscal years ended June 30, 2018 and 2017, respectively. The University has certain building and equipment lease agreements in effect which are considered capital leases that are included as long-term debt in the statements of financial position. These leases have been capitalized at the lower of fair market value or net present value of the minimum lease payments. Buildings and equipment held under capital leases are amortized on a straight-line basis over the shorter of the lease terms or the estimated useful lives of the assets. The capitalized cost and accumulated depreciation of the leases at June 30, 2018 and 2017 were \$131.2 million and \$68.6 million, and \$188.0 million and \$85.4 million, respectively.

#### Accounts Payable and Other Accrued Expenses

Accounts payable and other accrued expenses at June 30 consist of the following:

(in thousands of dollars)	2018		2017	
Accounts payable (non-Health System) Health System accounts payable	\$	299,611	\$	265,025
and other accrued expenses		283,700		262,722
Accrued payroll and other related liabilities		108,782		143,546
Accrued bond interest		17,594		15,705
Student deposits		2,903		2,887
Total accounts payable and other				
accrued expenses	\$	712,590	\$	689,885

#### Impairment of Long-Lived Assets

Long-lived assets, which include investment in plant and definite-lived intangible assets, are assessed for impairment whenever events or changes in circumstances indicate the carrying amount of the asset may not be recoverable. An impairment loss is recognized in change in net assets in the period that the impairment occurs.

#### **Asset Retirement Obligations**

The University has recognized liabilities for asset retirement obligations. The University has identified asbestos abatement and the decommissioning of the Breazeale Nuclear Reactor as conditional asset retirement obligations. These obligations are reported as part of other noncurrent liabilities within the consolidated statement of financial position. The following table details the change in liabilities for the years ended June 30:

	(in thousands of dollars)
Balance as of June 30, 2016	\$ 74,102
Adjustment to liability	12,892
Accretion expense	3,164
Liabilities settled	(6,945)
Balance as of June 30, 2017	83,213
Adjustment to liability	2,855
Accretion expense	3,577
Liabilities settled	(8,414)
Balance as of June 30, 2018	\$ 81,23 <u>1</u>

#### **Annuities Payable**

Annuities payable consist of annuity payments currently due and the actuarial amount of annuities payable. The actuarial amount of annuities payable is the present value of the aggregate liability for annuity payments over the expected lives of the beneficiaries.

#### **Net Assets**

Net assets consist of the following at June 30:

(in thousands of dollars)	<u>2018</u>	<u>2017</u>
Unrestricted net assets	\$ 7,420,851	\$ 6,526,231
Temporarily restricted net assets: Future contributions Annuity and life income funds Contributions for property, plant and equipment Term endowments and accumulated endowment gains Total temporarily restricted net assets	\$ 152,409 30,082 10,850 591,542 \$ 784,883	32,070 6,278 523,575
Permanently restricted net assets: Future contributions Annuity and life income funds Student loan funds Perpetual trusts and other funds Endowment funds Total permanently restricted net assets	\$ 104,219 38,331 17,310 32,268 1,526,532 \$ 1,718,660	36,069 16,890 28,013 1,437,458
Total net assets	\$ 9,924,394	\$ 8,842,498

#### Income Taxes

The University files U.S. federal and state tax returns. The statute of limitations on the University's federal returns generally remains open for three years following the year they are filed. In accordance with ASC 740 Income Taxes Topic, the University continues to evaluate tax positions and has determined there is no material impact on the University financial statements.

#### Recent Accounting Pronouncements

In May 2014, the FASB issued Accounting Standards Update ("ASU") 2014-09, "Revenue from Contracts with Customers." This update clarifies the principles for recognizing revenue that (1) removes inconsistencies and weaknesses in revenue requirements, (2) provides a more robust framework for addressing revenue issues, (3) improves comparability of revenue recognition practices across entities, industries, jurisdictions, and capital markets, (4) provides more useful information to users of financial statements through improved disclosure requirements, and (5) simplifies the preparation of financial statements by reducing the number of requirements to which an entity must refer. In August 2015, the FASB issued ASU 2015-14, "Revenue from Contracts with Customers; Deferral of the Effective Date." This update defers the effective date of the original ASU. The update is now effective for the University beginning July 1, 2018. The University is currently in the process of analyzing this guidance, and believes that any impact to the consolidated financial statements will be immaterial.

In July 2015, the FASB issued ASU 2015-11, "Inventory; Simplifying the Measurement of Inventory." This update requires entities to measure inventory within the scope of the update at the lower of cost and net realizable value and was effective for the University beginning July 1, 2017. The adoption of this guidance did not have a material impact on the consolidated financial statements.

In January 2016, the FASB issued ASU 2016-01, "Financial Instruments – Overall; Recognition and Measurement of Financial Assets and Financial Liabilities." This guidance addresses certain aspects of recognition, measurement, presentation, and disclosure of financial instruments. This guidance is effective for the University beginning July 1, 2018. The University has not yet evaluated the impact this guidance may have on its consolidated financial statements.

In February 2016, the FASB issued ASU 2016-02, "Leases." This update requires substantial changes to lease accounting to increase transparency and comparability among organizations by recognizing lease

assets and lease liabilities on the balance sheet and disclosing key information about leasing arrangements. The main difference between previous GAAP and this guidance is the recognition of lease assets and lease liabilities by lessees for those leases classified as operating under previous GAAP. This update is effective for the University beginning July 1, 2019 with early adoption permitted. The University has not yet evaluated the impact this guidance may have on its consolidated financial statements.

In August 2016, the FASB issued ASU 2016-14, "Not-for-Profit Entities; Presentation of Financial Statements of Not-for-Profit Entities." This update amends the requirements for financial statements and notes in Topic 958, Not-for-Profit Entities. The most significant amendment requires a not-for-profit entity ("NFP") to present on the face of the statement of financial position amounts for two classes of net assets at the end of the period, rather than for the currently required three classes. That is, an NFP will report amounts for net assets with donor restrictions and net assets without donor restrictions, as well as the currently required amount for total net assets. This update is effective for the University beginning July 1, 2018 with early adoption permitted. The University has not yet evaluated the impact this guidance may have on its consolidated financial statements.

In August 2016, the FASB issued ASU 2016-15, "Statement of Cash Flows; Classification of Certain Cash Receipts and Cash Payments." This update provides guidance on eight specific cash flows issues with the objective of reducing the existing diversity in practice. This update is effective for the University beginning July 1, 2018 with early adoption permitted. The University has not yet evaluated the impact this guidance may have on its consolidated financial statements.

In January 2017, the FASB issued ASU 2017-02, "Not-for-Profit Entities—Consolidation; Clarifying When a Not-for-Profit Entity That Is a General Partner or a Limited Partner Should Consolidate a For-Profit Limited Partnership or Similar Entity." This update amends the consolidation guidance in Subtopic 958-810, Not-for-Profit Entities—Consolidation, to clarify when a NFP that is a general partner or a limited partner should consolidate a for-profit limited partnership or similar legal entity once the amendments in ASU 2015-02 become effective. This update was effective for the University beginning July 1, 2017. The adoption of this guidance did not have a material impact on the consolidated financial statements.

In March 2017, the FASB issued ASU 2017-07, "Compensation – Retirement Benefits; Improving the Presentation of Net Periodic Pension Cost and Net Periodic Postretirement Benefit Cost." This update requires that an employer report the service cost component in the same line items as other compensation costs arising from services rendered by the pertinent employees during the period. In addition, the other components of net benefit cost are required to be presented in the income statement separately from the service cost component and outside a subtotal of income from operations. This update is effective for the University beginning July 1, 2018 with early adoption permitted. The University has not yet evaluated the impact this guidance may have on its consolidated financial statements.

In June 2018, the FASB issued ASU 2018-08, "Not-for-Profit Entities; Clarifying the Scope and the Accounting Guidance for Contributions Received and Contributions Made." This update clarifies and improves current guidance about whether a transfer of assets (or the reduction, settlement, or cancellation of liabilities) is a contribution or an exchange transaction. In addition, this update requires that an entity determine whether a contribution is conditional on the basis of whether an agreement includes a barrier that must be overcome and either a right of return of assets transferred or a right of release of a promisor's obligation to transfer assets. This update is effective for the University beginning July 1, 2018. The University is currently in the process of analyzing this guidance, and believes that any impact to the consolidated financial statements will be immaterial.

In August 2018, the FASB issued ASU 2018-13, "Fair Value Measurement; Disclosure Framework – Changes to the Disclosure Requirements for Fair Value Measurement." This update modifies the disclosure requirements on fair value measurements in Topic 820, Fair Value Measurement. This update is effective for the University beginning July 1, 2020, with early adoption permitted. The University has not yet evaluated the impact this guidance may have on its consolidated financial statements.

#### 3. INVESTMENTS

Investments by major category as of June 30 are summarized as follows:

(in thousands of dollars)	<u>2018</u>	<u>2017</u>
Money markets Fixed income:	\$ 183,623	\$ 144,065
U.S. government/agency	874,684	1,030,281
U.S. corporate	791,604	972,121
Foreign	202,459	183,270
Other	441,925	228,070
Equities	2,135,407	1,911,096
Private capital	 1,767,259	 1,573,841
Total	\$ 6,396,961	\$ 6,042,744

Other fixed income investments consist of collateralized mortgage obligations, mortgage-backed securities and asset-backed securities. Equity investments are comprised of domestic and foreign common stocks. Private capital consists primarily of interests in private real estate, venture capital, private equity, natural resources, private debt, commodities and hedge fund limited partnerships.

Futures contracts comprise the University's beneficially held derivative instruments at June 30, 2018 and 2017, and are included in the fair value of the University's investments. These contracts are fully cash collateralized and marked to market daily. The fair value of derivative instruments is included in the fair value of the University's investments within the money market category. Futures contracts have minimal credit risk because the counterparties are the exchanges themselves. Fully cash collateralized derivative securities comprised \$4.0 million, 0.06% of total investments, and \$5.2 million, 0.09% of total investments at June 30, 2018 and 2017, respectively. The University's derivatives consist of S&P 500 futures at June 30, 2018 and 2017 and are employed as a low cost, passive investment vehicle with daily liquidity which allows the University to maintain desired market exposure in light of irregular cash flows.

The following schedules summarize the investment return and its classification in the consolidated statement of activities for the years ended June 30:

(in thousands of dollars) 2018	<u>U</u>	nrestricted		nporarily estricted	ermanently Restricted	<u>Total</u>
Investment income Net realized gains Net unrealized gains Total returns	\$ <u>\$</u>	185,372 73,428 21,067 279,867	\$ <u>\$</u>	1,598 34,663 34,543 70,804	\$ 13,543 - - 13,543	\$ 200,513 108,091 55,610 364,214
(in thousands of dollars) 2017	<u>U</u>	nrestricted		nporarily estricted	ermanently Restricted	<u>Total</u>
Investment income Net realized gains Net unrealized gains Total returns	\$ <u>\$</u>	162,885 82,810 78,072 323,767	\$	1,046 43,339 93,222 137,607	\$ 9,056 - - 9,056	\$ 172,987 126,149 171,294 470,430

#### 4. ENDOWMENT NET ASSETS

The University's endowment includes both donor-restricted endowment funds and funds designated to function as endowments. As required by GAAP, net assets associated with endowment funds, including funds designated to function as endowments, are classified and reported based on the existence or absence of donor-imposed restrictions.

The ASC Not-for-Profit Entities Presentation of Financial Statements Subtopic (ASC Subtopic 958-205) provides guidance on the net asset classification of donor-restricted endowment funds for not-for-profit organizations subject to an enacted version of the Uniform Prudent Management of Institutional Funds Act ("UPMIFA") and improves disclosure about an organization's endowment funds regardless of whether the organization is subject to UPMIFA. The Commonwealth of Pennsylvania has not adopted UPMIFA but rather has enacted Pennsylvania Act 141 ("PA Act 141"). PA Act 141 permits an organization's trustees to define income as a stipulated percentage of endowment assets (between 2% and 7% of the fair value of the assets averaged over a period of at least three preceding years) without regard to actual interest, dividend, or realized and unrealized gains.

The University has interpreted PA Act 141 to permit the University to spend the earnings of its endowment based on a total return approach, without regard to the fair value of the original gift. As a result of this interpretation, the University classifies as permanently restricted net assets the original value of gifts donated to the permanent endowment, the original value of subsequent gifts to the permanent endowment, and accumulations to the permanent endowment made in accordance with the direction of the applicable donor gift instrument at the time the accumulation is added to the fund. Funds functioning as endowments are established at the direction of University management and are classified as unrestricted net assets due to the lack of external donor restrictions. Gains and losses attributable to permanent endowments are recorded as temporarily restricted net assets and gains and losses attributable to funds functioning as endowments are recorded as unrestricted net assets.

From time to time, due to unfavorable market fluctuations, the fair value of some assets associated with individual donor-restricted endowment funds may fall below the level that donors require to be retained as a perpetual fund, while other assets are unaffected to the same extent and maintain or exceed the level required. The aggregate amount of deficiencies at June 30, 2018 and 2017 was \$1.4 million and \$1.3 million, respectively, reported in unrestricted net assets on the consolidated statement of activities. Subsequent investment gains will be used to restore the balance up to the fair market value of the original gift. Subsequent gains above that amount will be recorded as temporarily restricted net assets.

Endowment net asset composition by type of fund as of June 30:

(in thousands of dollars) <u>2018</u>	<u>Uı</u>	nrestricted	emporarily Restricted	F	Permanently <u>Restricted</u>	<u>Total</u>
Donor-restricted endowment funds Funds functioning as	\$	(1,424)	\$ 589,395	\$	1,511,704	\$ 2,099,675
endowments		762,836	-		-	762,836
Total net assets	\$	761,412	\$ 589,395	\$	1,511,704	\$ 2,862,511
(in thousands of dollars) 2017	<u>Uı</u>	nrestricted	emporarily Restricted	F	Permanently Restricted	<u>Total</u>
Donor-restricted endowment funds Funds functioning as	\$	(1,299)	\$ 521,602	\$	1,424,224	\$ 1,944,527
endowments		651,647	_		_	651,647
Total net assets	\$	650,348	\$ 521,602	\$	1,424,224	\$ 2,596,174

Changes in endowment net assets for the years ended June 30:

(in thousands of dollars)  2018	<u>U</u>	Inrestricted		mporarily <u>estricted</u>	I	Permanently <u>Restricted</u>	<u>Total</u>
Endowment net assets, beginning of the year Endowment return:	\$	650,348	\$	521,602	\$	1,424,224	\$ 2,596,174
Endowment earnings Net realized gains Net unrealized gains		31,280 86,307 11,891		17 33,681 33,442		3,805 - -	35,102 119,988 45,333
Reclassification of funds with deficiencies Total endowment return Contributions Endowment spending		(125) 129,353 - (105,183)		125 67,265 528		3,805 83,675	 200,423 84,203 (105,183)
Transfers to create funds functioning as endowments Endowment net assets,		86,894		<u>-</u>			 86,894
end of the year	\$	761,412	\$	589,395	\$	1,511,704	\$ 2,862,511
-						<u> </u>	
(in thousands of dollars)  2017	<u>U</u>	Inrestricted		mporarily estricted	ſ	Permanently <u>Restricted</u>	<u>Total</u>
2017  Endowment net assets, beginning of the year Endowment return:	<u>U</u> \$	587,234		estricted 398,384	\$	1,330,966	\$ 2,316,584
2017  Endowment net assets, beginning of the year Endowment return: Endowment earnings Net realized gains Net unrealized gains			<u>R</u>	<u>estricted</u>		Restricted	\$ <u></u>
Endowment net assets, beginning of the year Endowment return: Endowment earnings Net realized gains Net unrealized gains Reclassification of funds with deficiencies Total endowment return Contributions		587,234  22,650 89,401 27,652  6,054 145,757	<u>R</u>	398,384 20 41,482		1,330,966	\$ 2,316,584 26,068 130,883 114,929 271,880 90,353
2017  Endowment net assets, beginning of the year Endowment return: Endowment earnings Net realized gains Net unrealized gains Reclassification of funds with deficiencies Total endowment return		587,234 22,650 89,401 27,652 6,054	<u>R</u>	398,384 20 41,482 87,277 (6,054) 122,725		1,330,966 3,398	\$ 2,316,584 26,068 130,883 114,929

Not included above are the endowment net assets of subsidiaries of \$20.2 million and \$18.1 million as of June 30, 2018 and 2017, respectively.

The University has adopted investment and spending policies for endowment assets that attempt to provide a relatively predictable stream of funding to programs supported by its endowment while seeking to maintain, over time, the purchasing power of the endowment assets. The overall management objective for the University's pooled endowment funds is to preserve or grow the real (inflation-adjusted) purchasing power of the assets through a prudent long-term investment strategy. This objective would be achieved on a total return basis. Under these policies, as approved by the Board of Trustees and the Penn State Investment Council, the primary investment objective of the University's pooled endowment is to attain a real total return (net of investment management fees) that at least equals a total annual effective spending rate of 5.25% (program spending of 4.5% plus administrative costs of 0.75%) over the long term.

To satisfy its long-term rate-of-return objectives, the University relies on a total return strategy in which investment returns are achieved through both capital appreciation (realized and unrealized) and current yield (interest and dividends). The University targets diversified asset allocation that places a greater emphasis on equity-based investments to achieve its long-term return objectives within prudent risk constraints. The endowment assets of the University are invested in a broad range of equities and fixed income securities, thereby limiting the market risk exposure in any one institution or individual investment.

The University has a policy of appropriating for distribution each year a certain percentage (4.5% for 2018 and 2017) of its pooled endowment fund's average fair market value over the prior five years preceding the fiscal year in which the distribution is planned. Accordingly, over the long term, the University expects the current spending policy to allow its endowment to provide generous current spending while preserving "intergenerational equity". This is consistent with the University's objective to maintain the purchasing power of the endowment assets held in perpetuity as well as to provide additional real growth through new gifts and investment returns.

#### 5. FAIR VALUE MEASUREMENTS

The University utilizes the following fair value hierarchy, which prioritizes into three broad levels the inputs to valuation techniques used to measure fair value:

- Level 1 Quoted prices (unadjusted) for identical assets or liabilities in active markets as of the measurement date. Such instruments valued at Level 1 primarily consist of securities that are directly held and actively traded in public markets.
- Level 2 Inputs other than unadjusted quoted prices that are observable for the asset or liability, directly or indirectly, including quoted prices for similar assets or liabilities in active markets, inputs other than quoted prices that are observable for the asset or liability, and inputs that are derived from observable market data by correlation or other means.
- Level 3 Unobservable inputs that cannot be corroborated by observable market data.

In instances in which the inputs used to measure fair value fall into different levels of the fair value hierarchy, the fair value measurement has been determined based on the lowest level input that is significant to the fair value measurement in its entirety. The University's assessment of significance of a particular item to the fair value measurement in its entirety requires judgment, including consideration of inputs specific to the asset.

The following table presents information as of June 30, 2018 about the University's financial assets and liabilities that are measured at fair value on a recurring basis:

(in thousands of dollars)	Quoted Prices in Active Markets For Identical Assets Level 1			Significant Other Observable Inputs Level 2	Significant Unobservable Inputs <u>Level 3</u>			Total <u>Fair Value</u>
Assets:								
Long-term Investment Pool:	_		_		_		_	
Money markets	\$	152,310	\$	756	\$	-	\$	153,066
Fixed income								
U.S. government/agency		-		86,060		-		86,060
U.S. corporate		-		152,990		-		152,990
Foreign		-		70,523		-		70,523
Other		-		91,022		-		91,022
Equities	_	914,841		<u>85</u>		<del>_</del>		914,926
Total	\$	1,067,151	\$	401,436	\$		\$	1,468,587
Operating investments:								
Money markets	\$	30,558	\$	_	\$	_	\$	30,558
Fixed income	Ψ	00,000	Ψ		Ψ		Ψ	00,000
U.S. government/agency		43,736		744,887		_		788,623
U.S. corporate		79,872		558,742		_		638,614
Foreign		15,023		116,913		_		131,936
Other		29,255		321,648		-		350,903
Equities		158,312		321,046 7		5,297		163,616
Total	\$	356,756	\$	1,742,197	\$	5,297 5,297	\$	2,104,250
Total	φ	330,730	Ψ	1,142,191	Ψ	5,291	Ψ	2,104,230
Deposits held by bond trustees:								
Money markets	\$	102,659	\$	-	\$	-	\$	102,659
,	•	•					•	,
Beneficial interest in perpetual								
trusts	\$	-	\$	-	\$	23,587	\$	23,587
12.1.992								
<u>Liabilities</u> :								
Present value of annuities	•		_		Φ.	E0 000	^	E0 000
payable	\$	-	\$	-	\$	59,236	\$	59,236

The following table presents information as of June 30, 2017 about the University's financial assets and liabilities that are measured at fair value on a recurring basis:

(in thousands of dollars)	Δ	uoted Prices in Active Markets For Identical Assets Level 1		Significant Other Observable Inputs Level 2		Significant nobservable Inputs Level 3		Total <u>Fair Value</u>
Assets: Long-term Investment Pool:								
Money markets	\$	128,632	\$	_	\$	_	\$	128,632
Fixed income	Ψ	120,002	Ψ		Ψ		Ψ	120,002
U.S. government/agency		85,021		80,107		_		165,128
U.S. corporate		-		243,578		-		243,578
Foreign		_		86,431		-		86,431
Other		_		32,905		-		32,905
Equities		1,102,498		<u> </u>		<u> </u>		1,102,498
Total	\$	<u>1,316,151</u>	\$	443,021	\$	<u> </u>	\$	1,759,172
Operating investments:								
Money markets Fixed income	\$	15,424	\$	9	\$	-	\$	15,433
U.S. government/agency		633,619		231,535		_		865,154
U.S. corporate		82,513		646,029		_		728,542
Foreign		11,948		84,892		-		96,840
Other		20,031		175,134		-		195,165
Equities		146,726		<sup>′</sup> 16		4,688		151,430
Total	\$	910,261	\$	1,137,615	\$	4,688	\$	2,052,564
Deposits held by bond trustees: Money markets	\$	178,954	\$	_	\$	_	\$	178,954
,	•	,	*		•		•	,
Beneficial interest in perpetual trusts	\$	-	\$	-	\$	19,854	\$	19,854
<u>Liabilities</u> : Present value of annuities			•		<b>*</b>	<b>50.3</b> 73	•	<b>5</b> 0.0 <b>5</b> -
payable	\$	-	\$	-	\$	58,070	\$	58,070

The fair value tables above exclude investments of \$2,824.1 million and \$2,231.0 million as of June 30, 2018 and 2017, respectively, which are measured at net asset value (NAV) per share or its equivalent and are not classified in the fair value hierarchy.

The Long-term Investment Pool (LTIP) is a mutual fund-like vehicle used for investing the University's endowment funds, funds functioning as endowments, and other operating funds that are expected to be held long-term. A share method of accounting for the LTIP is utilized by the University. Each participating fund enters into and withdraws from the LTIP based on monthly share values. At June 30, 2018 and 2017, fair value of endowment funds and funds functioning as endowments within the LTIP totaled \$2,891.7 million and \$2,615.6 million, respectively. At June 30, 2018 and 2017, fair value of operating funds included in the LTIP totaled \$1,398.3 million and \$1,370.9 million, respectively.

The following tables present information related to changes in Level 3 for each category of financial assets and liabilities for year ended June 30, 2018:

(in thousands of dollars)		Operating vestments	Beneficial Interest in <u>Perpetual Trusts</u>			
Assets:	•	4.000	•	40.054		
Beginning balance	\$	4,688	\$	19,854		
Total realized and unrealized		602		2 651		
gains Gifts		002		3,651 82		
Purchases		7		02		
Ending balance	\$	5,297	\$	23,587		
Enamy Salamos	Ψ	<u> </u>	Ψ			
	Pre	esent Value				
	of	f Annuities				
		<u>Payable</u>				
<u>Liabilities:</u>						
Beginning balance	\$	58,070				
Actuarial adjustment of liability		2,255				
Gifts		986				
Sales		(2,075)				
Ending balance	<u>\$</u>	<u>59,236</u>				

The following tables present information related to changes in Level 3 for each category of financial assets and liabilities for year ended June 30, 2017:

(in thousands of dollars)		Operating vestments	Beneficial Interest in Perpetual Trusts			
Assets:	<u>11.1</u>	vestificitis	<u>ı cıp</u>	etuai 11usts		
Beginning balance	\$	4,214	\$	14,558		
Total realized and unrealized	•	,	·	,		
gains		540		5,296		
Sales		(66)				
Ending balance	\$	4,688	\$	<u> 19,854</u>		
		esent Value f Annuities <u>Payable</u>				
<u>Liabilities:</u>						
Beginning balance	\$	53,859				
Actuarial adjustment of liability		3,460				
Gifts		3,144				
Sales		(2,393)				
Ending balance	Φ.	58.070				

There were no transfers of assets between Level 3 and Level 2 and between Level 1 and Level 2 in 2018 and 2017.

The following table presents the fair value and redemption frequency for those investments whose fair value is not readily determinable and is estimated using NAV or its equivalent as of June 30, 2018 and 2017:

		Fair	Value		_	Infunded mmitments At	Redemption	Redemption
(in thousands of dollars)		<u>2018</u>	value	2017	<u>Jun</u>	ne 30, 2018	<u>Frequency</u>	Notice Period
Commingled Funds: Non-U.S. Equity Subtotal	<u>\$</u> \$	927,41 <u>5</u> 927,41 <u>5</u>	<u>\$</u> \$	627,998 627,998			Quarterly/ Daily/Monthly	5-90 days
Marketable Investment Partnerships:								
Absolute Return	\$	59,528	\$	56,471			Quarterly Quarterly/	60 days
Distressed Debt		54,317		60,406			Semi Annual	60-90 days
Commodities		82,833		126,846			Monthly Monthly/ Quarterly/	30-60 days
Opportunistic		268,806		123,387			Annually	30-90 days
Directional Long/Short		303,068		289,472			Monthly	30 days
Subtotal	\$	768,552	\$	656,582				
Non-Marketable Investment Partnerships:								
Private Real Estate	\$	66,430	\$	83,925	\$	55,910		
Venture Capital		383,882		323,408		188,914		
Private Equity		390,952		297,386		311,824		
Natural Resources		142,396		130,146		55,451		
Private Debt	_	144,497		111,563	_	205,236		
Subtotal	<u>\$</u>	1,128,157	\$	946,428	\$	817,335		
Total	\$	2,824,124	\$	2,231,008	\$	817,335		

Commingled Funds include investments that aggregate assets from multiple investors and are managed collectively following a prescribed strategy. Redemptions vary from daily to quarterly with required notification of 90 days or less. The non-U.S. equity strategy is invested in developed and developing countries outside of the United States, and spans the entire equity capitalization spectrum. These collective portfolios preclude the need to obtain securities registration in foreign countries.

Marketable Investment Partnerships include several hedge funds whose underlying positions are traded via public securities markets. Liquidity terms range from quarterly to annually with advance notification for redemption ranging from 30 to 90 days. The fair values of the investments for each fund in this category have been estimated using the net asset value of the LTIP's share holdings in the fund. Five major investment strategies are included within this category. Absolute Return refers to relative value strategies. Directional refers to equity long/short strategies in both U.S. and non-U.S. markets. Opportunistic refers to global multistrategy. Distressed Debt refers to securities rated below investment grade, along with non-rated debt. Commodities refer to publicly traded commodity instruments primarily including futures and options.

Nonmarketable Investment Partnerships include limited partnership interests in a variety of illiquid investments. The fair values of the investments for each fund in this category have been estimated using the net asset value of the LTIP's ownership interest in partner's capital and cannot be redeemed. Realizations from each fund are received as the underlying investments are liquidated or distributed, typically within 10 years after initial commitment. Unfunded commitments represent remaining commitments of the LTIP's drawdown funds as of June 30, 2018. Five major investment strategies are included within this category. Private Real Estate includes properties primarily located in the U.S. Venture Capital includes non-public startups and enterprises in early stages of growth located globally. Private Equity includes buyouts of previously public companies as well as enterprises that are planning to go public in the near future, including

funds focusing on opportunities outside the U.S. Natural Resources largely include companies primarily involved in oil and natural gas in addition to a variety of other natural resources. Private Debt includes global private credit securities rated below investment grade as well as non-rated debt.

#### 6. CONTRIBUTIONS RECEIVABLE

Contributions receivable are summarized as follows as of June 30:

(in thousands of dollars)	<u>2018</u>	<u>2017</u>
In one year or less	\$ 69,963	\$ 66,076
Between one year and five years	70,295	78,025
More than five years	 114,7 <u>50</u>	 112,650
Contributions receivable, gross	255,008	256,751
Less allowance	(6,427)	(4,299)
Less discount	(52,096)	 (51,394)
Contributions receivable, net	\$ 196,485	\$ 201,058

Contributions received during the years ended June 30, 2018 and 2017 are discounted at rates ranging from 2.33% to 2.90% and 1.24% to 2.46%, respectively. The discount rates for prior periods ranged from 0.11% to 6.28%.

At June 30, 2018 and 2017, the University has received bequest intentions and certain other conditional promises to give of \$104.6 million and \$103.3 million, respectively. These intentions and conditional promises to give are not included in the consolidated financial statements.

The following table summarizes the change in contributions receivable, net during the year ended June 30, 2018:

	(in thousands of dollars)		
Balance at the beginning of year	\$ 201,058		
New pledges		100,794	
Collections on pledges	(102,537)		
Increase in allowance		(2,128)	
Increase in unamortized discounts		(702)	
Balance at the end of year	\$	196,485	

#### 7. LONG-TERM DEBT

The various bond issues, notes payable and capital lease obligations that are included in long-term debt in the statements of financial position consist of the following at June 30:

(in thousands of dollars)	<u>201</u>	<u>8</u>	20	<u>017</u>
The Pennsylvania State University Bonds Series 2018 Series 2017A Series 2017B Series 2016A Series 2016B Series 2015A Series 2015B Series 2010 Series 2009B Series 2007B	· :	64,210 157,080 125,000 119,580 221,480 62,320 104,335 127,580 74,235 47,545	\$	157,080 125,000 122,165 229,775 63,780 108,000 131,380 74,235 51,065
Pennsylvania Higher Educational Facilities Authority University Revenue Bonds (issued for The Pennsylvania State University) Series 2006 Series 2004 Series 2002		2,410 2,540 1,995		2,655 2,840 2,435
Lycoming County Authority College Revenue Bonds (issued for Penn College) Series 2016 Series 2015 Series 2012 Series 2011		52,465 5,030 23,255 37,735		54,190 6,390 24,275 37,810
Total bonds payable Unamortized bond premiums Unamortized deferred bond costs		228,795 146,254 (5,981)	1	1,193,075 142,442 (5,952)
Notes payable and capital leases Notes payable Capital lease obligations		24,632 56,477		26,983 112,845
Total long term debt	ф 4	81,109 450 177	<u> </u>	139,828
Total long-term debt	<u>\$ 1,4</u>	<u>450,177</u>	<b>\$</b> 1	1 <u>,469,393</u>

	Interest rate		
Debt issuance	<u>mode</u>	Interest rates	Payment ranges and maturity
		_	(in thousands of dollars)
The Pennsylvania St	ate University	Bonds	
			\$975 to \$2,320 through September 2037 with
			\$16,650 and \$18,255 due September 2043 and
Series 2018	Fixed	2.00% - 5.00%	September 2048, respectively
			\$2,400 to \$5,965 through September 2037 with
			\$34,750 and \$44,620 due September 2042 and
Series 2017A	Fixed	2.00% - 5.00%	September 2047, respectively
			\$2,660 to \$3,830 through September 2032 with
			\$21,305 and \$56,595 due September 2037 and
Series 2017B	Fixed	1.275% - 3.793%	September 2047, respectively
			\$2,690 to \$6,465 through September 2036 with
Series 2016A	Fixed	5.00%	\$37,520 due September 2041
Series 2016B	Fixed	4.00% - 5.00%	\$7,165 to \$22,195 through September 2036
			\$1,520 to \$3,445 through September 2035 with
Series 2015A	Fixed	4.00% - 5.00%	\$20,000 due September 2040
Series 2015B	Fixed	4.00% - 5.00%	\$3,820 to \$8,435 through September 2035
			\$3,955 to \$6,595 through March 2030 with
			\$21,805 and \$44,245 due March 2035 and
Series 2010	Fixed	3.375% - 5.00%	March 2040, respectively
Series 2009B	Variable	1.73%	June 2031
Series 2007B	Fixed	5.25%	\$3,710 to \$5,955 through August 2027
Pennsylvania Higher			
Authority ("PHEFA	") University R	Revenue Bonds	
			\$255 to \$280 through September 2020 with
Series 2006	Fixed	4.35% - 5.125%*	\$1,610 due September 2025
			\$310 to \$325 through September 2019 with
Series 2004	Fixed	4.70% - 5.00%*	\$1,905 due September 2024
Series 2002	Fixed	5.00%*	\$2,435 due March 2022
*Annual interest costs	to the Universit	y for interest rates gr	eater than 3.00% are subsidized by PHEFA.
Lycoming County Au	thority Colleg	e Revenue Bonds	
			\$1,545 to \$3,615 through October 2032 with
Series 2016	Fixed	2.125% - 5.00%	\$19,345 due October 2037
Series 2015	Fixed	2.50% - 4.00%	\$465 to \$1,590 through January 2025
			\$1,080 to \$1,170 through May 2020 with \$2,565,
			\$6,395 and \$12,045 due May 2022, May 2026
Series 2012	Fixed	2.50% - 5.00%	and May 2032, respectively
			\$1,565 to \$1,850 through July 2021 with
			\$14,170 and \$18,705 due July 2026 and
Series 2011	Fixed	4.00% - 5.24%	July 2030, respectively

The Series 2018 Bonds are general obligation bonds issued in May 2018 for the purpose of financing various construction and renovation projects. The Series 2018 Bonds are subject to early redemption provisions, at the option of the University, beginning September 2028. The bonds maturing in September 2043 and September 2048 are subject to mandatory sinking fund redemption.

The Series 2009B Bonds are currently paying interest on a variable rate basis at a long term rate for the period June 1, 2018 through May 31, 2019. The University has the option to convert to another variable rate (daily, weekly, monthly or flexible) or to a fixed rate basis (such rates are generally determined on a market basis) at respective conversion dates. The bonds currently pay interest at 1.73% with adjustment on the respective date to the rate the remarketing agent believes will cause the bonds to have a market value equal to the principal. The 2009B bondholders have the right to tender bonds on the purchase dates while such bonds bear interest at the daily, weekly or monthly rate. The 2009B Bonds were issued subject to the self-liquidity program established

by the University on the date of issuance pursuant to which the University will provide liquidity for the 2009B Bonds from its general funds in the event of insufficient remarketing proceeds.

The University has complied with all financial debt covenants for the years ended June 30, 2018 and 2017.

Maturities and sinking fund requirements on bonds payable for each of the next five fiscal years and thereafter are summarized as follows:

		Annual
Year	Ins	tallments
	(in thousand	ds of dollars)
2019	\$	35,825
2020		38,760
2021		40,475
2022		42,390
2023		44,380
Thereafter	1	,026,965
	\$ 1	,228,795

The fair value of the University's bonds payable is estimated based on current rates offered for similar issues with similar security, terms and maturities using available market information as supplied by the various financial institutions who act as trustees or custodians for the University. At June 30, 2018, the carrying value and estimated fair value of the University's bonds payable, including issuance premiums and deferred bond costs, are \$1,369.1 million and \$1,347.6 million, respectively. At June 30, 2017, the carrying value and estimated fair value of the University's bonds payable, including issuance premiums and deferred bond costs, were \$1,329.6 million and \$1,337.5 million, respectively. Certain bond issues have associated issuance premiums; these issuance premiums total \$146.3 million and \$142.4 million at June 30, 2018 and 2017, respectively and are presented within the statement of financial position as long-term debt. These issuance premiums will be amortized over the term of the respective outstanding bonds. Certain bond issues have associated deferred bond costs; these deferred bond costs total \$6.0 million at June 30, 2018 and 2017 and are presented within the statement of financial position as a reduction in long-term debt. These deferred bond costs will be amortized over the term of the respective outstanding bonds.

#### Notes payable and capital leases

The University has three notes payable included within the consolidated statements of financial position at June 30, 2018 with balances of \$6.9 million, \$8.0 million, and \$9.7 million. These notes have payments due annually through June 2024, June 2025, and March 2026 and bear interest at 2.60%, 2.85%, and 2.80%, respectively. The current portion of payments due under these notes totals \$3.3 million at June 30, 2018.

The University has certain building and equipment lease agreements in effect which are considered capital leases. Future minimum lease payments under capital leases together with the present value of the net minimum lease payments as of June 30, 2018 are as follows:

<u>Year</u>	(in thousands of dollars)		
2019	\$	13,767	
2020		10,901	
2021		8,444	
2022		5,308	
2023		4,202	
Thereafter		33,833	
Total minimum lease payments		76,455	
Less imputed interest		(19,978)	
Capital lease obligation		56,477	
Current portion		11,469	
Long-term portion	<u>\$ 45,008</u>		

#### 8. OPERATING LEASES

The University has certain lease agreements in effect which are considered operating leases. During the year ended June 30, 2018, the University recorded expenses of \$22.1 million for leased equipment and \$31.1 million for leased building space. During the year ended June 30, 2017, the University recorded expenses of \$23.6 million for leased equipment and \$30.5 million for leased building space.

Future minimum lease payments under operating leases as of June 30, 2018 are as follows:

<u>Year</u>	(in thousands of dollars)	
2019	\$ 30,152	
2020 2021	20,656 14,497	
2022 2023	10,919 8,574	
Thereafter	29,345	
Total minimum lease payments	<u>\$ 114,143</u>	

#### 9. RETIREMENT BENEFITS

The University provides retirement benefits for substantially all regular employees, primarily through either contributory defined benefit plans administered by the Commonwealth of Pennsylvania State Employees' Retirement System ("SERS") and The Public School Employees' Retirement System or defined contribution plans administered by the Teachers Insurance and Annuity Association – College Retirement Equity Fund and Fidelity Investments. The University is billed for its share of the estimated actuarial cost of the defined benefit plans (\$121.0 million and \$104.9 million for the years ended June 30, 2018 and 2017, respectively). The University's total cost for retirement benefits, included in expenses, is \$269.7 million and \$246.3 million for the years ended June 30, 2018 and 2017, respectively.

The SERS is the administrator of a cost-sharing, multi-employer retirement system established by the Commonwealth of Pennsylvania to provide pension benefits for employees of state government and certain independent agencies. As provided by statute, the SERS Board of Trustees has exclusive control and management responsibility of the funds and full power to invest the funds. The SERS funding policy provides for periodic member contributions at statutory rates and employer contributions at actuarially determined rates (expressed as a percentage of annual gross pay) that are sufficient to accumulate assets to pay benefits when due. The University's contributions to this plan for the years ended June 30, 2018 and 2017 were \$118.2 million and \$102.6 million, respectively, and represent approximately 6.0% of total contributions to the plan based on projections for fiscal year 2018. The plan is funded at less than 65% with the funded ratio of the plan at 59.4% as of December 31, 2017.

#### 10. POSTRETIREMENT BENEFITS

The University sponsors a retiree medical plan covering eligible retirees and eligible dependents. This program includes a Preferred Provider Organization ("PPO") plan (both a traditional and a qualified high deductible option) for retirees and their dependents who are not eligible for Medicare, and a Medicare Advantage PPO plan. In addition, the University provides certain retiree life insurance benefits to eligible retirees as described below.

Employees who were hired prior to January 1, 2010 are eligible for medical coverage after they retire if either of the following requirements are satisfied:

 they are at least age 60 and have at least 15 years of continuous regular full-time employment and participation in a University-sponsored medical plan immediately preceding the retirement date regardless of age, if they have at least 25 years of regular full-time service. The last 10 of those 25 years of University service must be continuous and they must participate in a University-sponsored medical plan during the last 10 years immediately preceding the retirement date.

Effective January 1, 2016, any non-union employee who retires on or before December 31, 2020 will receive a \$5,000 term life insurance policy benefit at no cost to the employee. If a non-union employee retires after December 31, 2020, no life insurance benefit is provided. For union employees, a \$5,000 term life insurance policy is provided at no cost to the employee regardless of their retirement date.

The retiree PPO medical plan is a self-funded program, and all medical claims, death benefits and other expenses are paid from the unrestricted net assets of the University. The Medicare Advantage PPO plan and life insurance program are fully-insured. The retirees pay varying amounts for coverage under the medical plan.

For those employees who were hired after December 31, 2009, the University will contribute funds each month on their behalf to a Retirement Healthcare Savings Plan. This plan is designed to help pay for qualified medical and health-related expenses in retirement, including the purchase of a health insurance policy.

Retirees will be eligible to access their Retirement Healthcare Savings Plan account when they are no longer actively employed at Penn State and have satisfied either of the following requirements:

- completed 25 years of continuous full-time service and are age 60 or older
- completed a minimum of 15 years of continuous full-time service and are age 65 or older.

Included in unrestricted net assets at June 30, 2018 and 2017 are the following amounts that have not yet been recognized in net periodic postretirement cost: unrecognized prior service cost (benefit) of (\$4.1) million and (\$8.5) million and unrecognized actuarial loss of \$459.7 million and \$707.6 million, respectively.

The following sets forth the plan's benefit obligation, plan assets and funded status reconciled with the amounts recognized in the University's consolidated statements of financial position at June 30:

Change in benefit obligation: (in thousands of dollars)		<u>2018</u>		<u>2017</u>
Benefit obligation at beginning of year Service cost Interest cost Actuarial loss (gain) Benefits paid Plan amendment Plan assumptions	\$	2,318,462 47,477 92,448 (95,091) (58,199) 1,312 (112,854)	\$	2,148,522 50,368 90,719 33,287 (51,860) (6,845) 54,271
Benefit obligation at end of year	\$	2,193,555	\$	2,318,462
Change in plan assets: (in thousands of dollars)		<u>2018</u>		<u>2017</u>
Fair value of plan assets at beginning of year Employer contributions Benefits paid Fair value of plan assets at end of year	\$ <u>\$</u>	58,199 (58,199)	\$	51,860 (51,860)
Funded status Unrecognized prior service cost (benefit) Unrecognized net actuarial loss Accrued postretirement benefit expense	\$	(2,193,555) - - (2,193,555)	\$ <u>\$</u>	(2,318,462) - - (2,318,462)

Net periodic postretirement cost includes the following components for the years ended June 30: (in thousands of dollars)

	<u>2018</u>		<u>2017</u>	
Service cost	\$	47,477	\$	50,368
Interest cost		92,448		90,719
Amortization of prior service cost		(3,131)		(19,392)
Amortization of unrecognized net loss		40,003		48,990
Net periodic postretirement cost	\$	176,797	\$	170,685

The assumed healthcare cost trend rate used in measuring the accumulated postretirement benefit obligation was 7.20% and 7.50% for the years ended June 30, 2018 and 2017, respectively, reduced each year to an ultimate level of 5.00%. The postretirement benefit obligation discount rate was 4.46% and 4.21% for the years ended June 30, 2018 and 2017, respectively. During 2018, the plan had favorable demographic experience compared to assumptions. In addition, the plan had positive per capita medical claims experience over the past 3 years contributing to favorable results during 2018.

If the healthcare cost trend rate assumptions were increased by 1% in each year, the accumulated postretirement benefit obligation would be increased by \$452.6 million and \$498.4 million as of June 30, 2018 and 2017, respectively. The effect of this change on the sum of the service cost and interest cost components of the net periodic postretirement benefit cost would be an increase of \$34.2 million and \$35.5 million as of June 30, 2018 and 2017, respectively. If the healthcare cost trend rate assumptions were decreased by 1% in each year, the accumulated postretirement benefit obligation would be decreased by \$348.3 million and \$384.9 million as of June 30, 2018 and 2017, respectively. The effect of this change on the sum of the service cost and interest cost components of the net periodic postretirement benefit cost would be a decrease of \$25.7 million and \$26.6 million as of June 30, 2018 and 2017, respectively.

Gains and losses in excess of 10% of the accumulated postretirement benefit obligation are amortized over the average future service to assumed retirement of active participants.

Postretirement benefits expected to be paid for the years ended June 30 are as follows:

	(in thousands of dollars)
2019	\$ 61,286
2020	65,658
2021	70,434
2022	75,589
2023	80,977
2024-28	486,823

#### 11. PENN STATE HEALTH

Penn State Health was organized exclusively for the charitable, educational, and scientific purposes as defined and limited by Section 501(c)(3) of the Internal Revenue Code of 1986. The Health System's purpose is to promote, support and further the charitable, educational, and scientific purposes of the University. The Health System is controlled by the University with a minority ownership by Highmark Health.

The wholly owned subsidiaries of the Health System include the Milton S. Hershey Medical Center ("MSHMC"), Saint Joseph's Regional Health Network and Medical Group ("SJRHN/SJMG"), Penn State Community Medical Group ("PSCMG"), Nittany Health, Inc. ("Nittany"), Central PA Health Network ("CIN") and 4814 Development Assoc., Inc. ("4814 DA, Inc.").

In July 2015, the Health System acquired SJRHN/SJMG. SJRHN/SJMG is a 180-bed, not-for-profit acute care hospital that provides inpatient, outpatient, and emergency care services to the Berks County Region.

In January 2016, the ownership of Nittany transferred from the University to the Health System. Nittany (formerly Penn State Hershey Health System, Inc.) is a corporate investor in healthcare joint ventures,

which are supportive of the missions of the Health System. Nittany's objectives are consistent with the strategic objective to extend the range of healthcare services offered by and through the Health System over a broader geographic region. Nittany recorded non-controlling interest related to the acquisition of additional ownership interest in a joint venture. This non-controlling interest is recorded in unrestricted net assets within the consolidated statements of financial position with a value at June 30, 2018 and 2017 of \$1.9 million and \$4.6 million, respectively.

In May 2016, the ownership of MSHMC transferred from the University to the Health System. At June 30, 2018, MSHMC is a 548-bed, not-for-profit acute care, academic medical center located in Hershey, Pennsylvania. The University retains ownership of the buildings and land occupied by MSHMC, which is colocated with the University's College of Medicine. The clinical facilities of the Medical Center complex are leased to MSHMC. MSHMC makes certain payments to support the College of Medicine. MSHMC is a Level 1 Regional Trauma Center and provides inpatient, outpatient, and emergency care services to residents of central Pennsylvania through its central facility in Hershey and 36 medical group sites. Additionally, MSHMC operates an ambulatory surgical center, which provides endoscopy procedures to the Centre County Region.

In February 2017, the Health System established PSCMG. The purpose of PSCMG is to extend the ambulatory clinical footprint of the Health System into a broader geographic region. In October 2017, the Health System, through an asset purchase agreement, began operations of 16 medical group sites.

In July 2017, CIN ownership was transferred from joint ownership by MSHMC and SJRHN/SJMG to direct ownership by the Health System. The purpose of CIN is to develop population health initiatives across the Health System organization.

In October 2017, the Health System established 4814 DA, Inc. The purpose of 4814 DA, Inc. was to acquire property in Cumberland County, which is intended to be the future site of an acute care hospital. The land acquisition took place in October 2017.

In January 2018, Highmark Health purchased a 20% minority interest in the Health System. The Health System received cash contributions of \$200.0 million in exchange for three board seats and certain reserve powers. The contributions are recorded as capital contributions within non-controlling interest on the statement of activities. Additionally, the Health System recorded non-controlling interest, excess of revenues over expenses of \$21.7 million related to this minority interest. The total non-controlling interest related to Highmark Health is recorded in unrestricted net assets within the consolidated statements of financial position with a value at June 30, 2018 of \$221.7 million.

During 2018, the Health System received cash contributions related to the Community Health Reinvestment Act from Highmark Health. The cash contributions of \$30.0 million are recorded as Health System revenue on the consolidated statements of activities. Additionally, during 2018, the Health System paid Highmark Health \$146.3 million related to employee benefit expenses and recorded \$544.0 million in net patient revenue related to Highmark Health Third Party Payor contracts.

#### 12. CONTINGENCIES AND COMMITMENTS

#### **Contractual Obligations**

The University has contractual obligations for the construction of new buildings and for additions to existing buildings in the amount of \$1,239.8 million of which \$1,019.8 million has been paid or accrued as of June 30, 2018. The contract costs are being financed from available resources and from borrowings.

#### **Letters of Credit**

The University has available letters of credit in the amount of \$31.8 million and \$25.7 million as of June 30, 2018 and 2017, respectively. These letters of credit are used primarily to comply with minimum state and federal regulatory laws that govern various University activities. The fair value of these letters of credit approximates contract values based on the nature of the fee arrangements with the issuing banks.

#### Guarantees

The University has a contract with a third party whereby the third party acts as an agent of the University in connection with procurement of electricity. The University guarantees the payment of the obligations of the third party incurred on behalf of the University to counterparties.

#### Self-Insurance

The University has a coordinated program of commercial and self-insurance for medical malpractice claims at MSHMC through the use of a qualified trust and a domestic captive insurance company in combination with a self-insured retention layer and is supplementing this program through participation in the Pennsylvania Medical Care Availability and Reduction of Error Fund ("MCARE Fund"), in accordance with Pennsylvania law. An estimate of the present value, discounted at 2% for the years ended June 30, 2018 and 2017, of the medical malpractice claims liability in the amount of \$131.1 million and \$120.4 million is recorded as of June 30, 2018 and 2017, respectively.

The subsidiaries of the Health System are self-insured for all medical malpractice claims asserted on or after July 1, 2003, for all amounts that are below the coverage of excess insurance policies and not included in the insurance coverage of the MCARE Fund. Under the self-insurance program, the Health System is required to maintain a malpractice trust fund in an amount at least equal to the expected loss of known claims. The balance of this trust fund was \$31.5 million and \$27.4 million at June 30, 2018 and 2017, respectively. The Health System intends to fund any claims due during the next year from cash flows from operations.

With approval from the Pennsylvania Department of Labor and Industry ("PA-DLI"), the University elected to self-insure potential obligations applicable to Pennsylvania workers' compensation. Certain claims under the program are contractually administered by a private agency. The University purchased insurance coverage for excess obligations over \$600,000 per incident. An estimate of the self-insured workers' compensation claims liability in the amount of \$6.8 million and \$7.0 million, discounted at 2.73% and 1.89%, respectively, is recorded as of June 30, 2018 and 2017, respectively. The University has established a trust fund, in the amount of \$13.2 million at June 30, 2018 and 2017 as required by PA-DLI, to provide for the payment of claims under this self-insurance program. The Health System is self-insured for workers' compensation claims and has purchased excess policies through commercial insurers which cover individual claims in excess of \$750,000 per incident for workers' compensation claims.

The University and the Health System are self-insured for certain health care benefits provided to employees. The University, MSHMC and SJRHN/SJMG have purchased excess policies which cover employee health benefit claims in excess of \$600,000, \$575,000 and \$375,000 per employee per year, respectively. The University and the Health System provide for reported claims and claims incurred but not reported.

#### Litigation and Contingencies

In November 2011, the University was made aware of certain allegations in a Commonwealth of Pennsylvania Grand Jury presentment. Various legal proceedings and investigations have arisen as a result of such allegations, including criminal proceedings against former officers and employees of the University. Certain claims and civil litigation have been filed against the University with anticipation that other complaints could be filed. The University has recognized an expense of \$4.0 million and \$16.0 million for the years ended June 30, 2018 and 2017, respectively, with such amounts included in institutional support within the consolidated statement of activities. Additional claims could be paid in the future but without having knowledge of the number and nature of such claims the University is unable to predict the outcome of these matters or the ultimate legal and financial liability and at this time cannot reasonably estimate the possible loss or range of loss. Accordingly, no amounts have been accrued in the financial statements for these claims.

In addition to the settlement costs, the University has incurred costs for the fiscal years ended June 30, 2018 and 2017 totaling \$3.5 million and \$4.9 million, respectively, for internal investigation, legal, communications and other related costs. These costs are included in institutional support within the consolidated statement of activities.

By jury verdict and court orders in October and November 2016 and March 2017, the University was found liable for compensatory and punitive damages of \$12.3 million and was ordered to pay attorney's fees and costs of \$1.7 million in a lawsuit brought by a former employee alleging whistleblower liability, defamation and misrepresentation. In October 2017, the University agreed to settle with the plaintiff for a lesser amount pursuant to a confidential settlement agreement. The amount per the settlement agreement is accrued as of June 30, 2017 and included in institutional support within the consolidated statement of activities.

The University has submitted claims to insurance carriers related to the claims that have been settled or paid. Some insurance claims have been paid and other insurance claims remain outstanding.

Based on its operation of the Health System (see Note 11), the University, like the rest of the healthcare industry, is subject to numerous laws and regulations of federal, state and local governments. Compliance with these laws and regulations can be subject to government review and interpretation, as well as regulatory actions. Recently, government reviews of healthcare providers for compliance with regulations have increased. Although the University believes it has done its best to comply with these numerous regulations, such government reviews could result in significant repayments of previously billed and collected revenues from patient services.

On July 12, 2013, the University received a preliminary report from the U.S. Department of Education based on the program review of the University's compliance with the Clery Act, a federal law related to campus safety. A final program review determination was made in November 2016, which assessed a fine in the amount of \$2.4 million. The fine has been paid and the Department of Education's program review is now closed.

Various other legal proceedings have arisen in the normal course of conducting University business. The outcome of such litigation is not expected to have a material effect on the financial position of the University.

#### 13. SUBSEQUENT EVENTS

The University has evaluated subsequent events through October 23, 2018, the date on which the consolidated financial statements were issued. It did not identify any subsequent events to be disclosed other than those below or previously noted.



#### THE PENNSYLVANIA STATE UNIVERSITY

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as of June 30, 2018 MEMBERS

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The Pennsylvania State University

ACADEMIC TRUSTEE

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Department of Surgery Penn State Health Milton S. Hershev Medical Center

and College of Medicine

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The Pennsylvania State University

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President

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President

Bank of New York Mellon

ANNE RII FY

Teacher

Executive Vice President and Treasure American Farm Bureau Federation

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KATHLEEN L. CASEY

Senior Advisor

Public Leadership Education Network

H. JESSE ARNELLE

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Chairman Eat'n Park Hospitality Group, Incorporated

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Advisor

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The Barash Group

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Vice President and Senior Business Banker Reliance Bank

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L. J. ROWELL, JR.

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Head Coach, Silkotek

CECILE M. SPRINGER

President, Springer Associates

LINDA B. STRUMPF

PAUL V. SUHEY

Orthopedic Surgeon Martin & Suhey Orthopedics

HELEN D WISE

Retired Chief of Staff for Governor Casev Commonwealth of Pennsylvania

BOYD E. WOLFF

Retired, Owner and Operator Wolfden Farms

QUENTIN E. WOOD

Retired Chairman of the Board and Chief Executive Officer Quaker State Corporation

BARRY K. ROBINSON Chief Counsel for Economic Affairs U.S. Department of Commerce

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