

**Report of the**  
**Department of Human Resource Management**  
**Workers' Compensation Program**  
**Settlements in Fiscal Year 2016**  
**and**  
**Experience-based Premium Recommendations**  
**Pursuant to**  
**2016 Virginia Acts of Assembly**  
**Chapter 780, Item 84.F.1**

**October 1, 2016**

## **Workers' Compensation Settlements in Fiscal Year 2016**

The Workers' Compensation Program settled six Workers' Compensation claims during Fiscal 2016, avoiding \$369,405.87 in expected future costs. Exhibit A provides a list of all settlements. Savings are calculated as follows:

Total Case Reserves (Future Exposure)	\$504,224.62
Total Settlement Amounts	\$134,818.75
Cost Avoidance due to Settlements	\$369,405.87

All settlements have been approved by the Virginia Workers' Compensation Commission as being in the best interest of the claimant or the dependents as required by Rule 1.7 of the Rules of the Commission.

Prior to the approval of all settlements, the Workers' Compensation Program staff must:

- obtain the most current medical information
- obtain a current rehabilitation report indicating the employee's inability to return to any type of gainful employment
- determine if the employee has taken disability or service retirement through the Virginia Retirement System
- determine if the employee is receiving social security disability benefits
- confirm that the employee does not have health insurance through Department of Human Resource Management
- conduct an analysis of the benefit to the Commonwealth of Virginia when comparing the amount of settlement to the estimated future exposure that would be created for the Virginia Retirement System
- obtain approval from the Director of Workers' Compensation

After it has been determined that it is in both the claimant's and the Commonwealth of Virginia's best interest to settle the claim, it is submitted to the Office of the Attorney General for approval. If the Office of the Attorney General concurs with the recommendation, the proposed compromise settlement is submitted to the Virginia Workers' Compensation Commission for their approval.

# Experience-based Premium Recommendations

## Objective

The study provides recommendations to the Governor and the General Assembly of the agency-by-agency cost of experience-based premiums for the Department of Human Resource Management Workers' Compensation Program for FY2018 and FY2019 using the latest actuarial data.

## Recommendation

The recommendation is to have workers' compensation premiums equal to the cash flow needs of the program. Total premiums recommended for each fiscal year are:

<b><u>Recommended FY2018 Premium</u></b>	<b><u>Recommended FY 2019 Premium</u></b>
<b>\$79,907,205</b>	<b>\$81,972,563</b>

## Background

Experience-based premiums are based on the marketplace premise that the higher the cost of claims, the higher the premiums. The policyholder's claim history, the number and dollar amount of previous claims, projected payroll, as well as other risk factors determine premiums. With experience-based premiums, the policyholder absorbs any increase in premium costs, and retains savings if premiums decrease. This gives the policyholder a monetary incentive to prevent accidents and control costs.

The Department of Planning and Budget conducted an evaluation study of the Workers' Compensation Program and in December of 1998 issued a report *Experience-Based Premiums for the Commonwealth's Self-Insurance Programs*. They recommended that the Workers' Compensation Program should adopt experience-based premiums. Because of the increased cost of premiums and the cost shifting between agencies, experience-based premiums were phased in over a two-year period. Premiums for FY2000 were capped at no more than a 50 percent increase or decrease, compared to FY1998 premiums. Premiums for FY2001 were experience-based with no cap. Premiums for FY2002 were identical to FY2001 and did not reflect loss or payroll trends or exposure (payroll) growth between 2000 and 2002. Premiums for FY2003-FY2017 were also experience-based.

Since FY1998, total premiums collected equaled the actuarial projection of the expected cash flow needs of the program. There is no requirement that the workers' compensation program be actuarially sound. The workers' compensation program has consistently been in a deficit fund position since 1987.

## **Benefits of Experience-based Premiums**

With so many competing goals existing in the work environment today, claims and loss control receive little attention by agency management when there are no consequences. Experience-based premiums have created agency management awareness of the cost of their claims. It has also provided a financial incentive for agencies to control costs. When an agency has an effective loss control program, premiums typically will be reduced due to improved experience (unless the agency has a significant increase in projected payroll).

Since 1999 agencies have been required to analyze their workplace accidents, develop goals and strategies to reduce or eliminate them, and to create opportunities, whenever possible, to return employees to work. Since implementing experience-based premiums, agencies have made significant headway in controlling workplace injuries. Creating experience-based premiums has definitely increased agency attention to their safety and loss control needs.

The Workers' Compensation Program has created an extensive training and inspection program that assists agencies with their initiatives to:

- eliminate or reduce premises hazards
- reduce or control exposures
- create training programs to increase control of risk
- improve workplace safety
- reduce program costs
- reduce the frequency and severity of claims
- return employees to work in a transitional or modified duty capacity

## **Methodology**

Oliver Wyman Actuarial Consulting, Inc. (Oliver Wyman) was asked to provide an allocation of the projected FY2018 and FY2019 costs of the workers' compensation self-insurance program to the Commonwealth's agencies. The allocation was to reflect the historical experience of the individual agencies. It was also requested that they rely on their annual analysis of the overall reserve requirements of the self-insurance program.

The Department of Planning and Budget provided payroll information. Actual premiums charged to each agency and their claims history was provided by the State Employee Workers' Compensation Services.

The actuary provides three premium options based upon their reserve analysis. The figures represent the total of the projected program and administrative expenses and projected losses for FY2018 and FY2019 under three scenarios:

1. Indicated Undiscounted Actuarial Premium (cashflow) – the premium required to pay the ultimate cost of claims anticipated to occur during FY2018 plus the FY2018 program and administrative expenses.
2. Pay As You Go – projection of loss and expense payments (net of anticipated investment income) to be made during FY2018 on all accident years.

3. Pay As You Go Plus One Year's Cashflow – projection of loss and expense payments (net of anticipated investment income) to be made during FY2018 plus the amount required so that the FY2018 ending fund balance is equal to the FY2019 cash flow.

It is the recommendation of the Department of Human Resource Management that the program continue to allocate premiums on the Pay As You Go basis. This scenario represents a 0.7 percent decrease in overall premiums for FY2018 as compared to FY2017 and a 2.6 percent overall increase in premiums for FY2019 as compared to FY2018.

Total premiums recommended are \$79,907,205 for FY2018 and \$81,972,563 for FY2019. Exhibit B provides recommended workers' compensation premiums by agency on a Pay as You Go (cash flow) basis for FY2018 and FY2019. The complete actuarial study is attached (Exhibit C) which provides details of the individual calculations that were performed to arrive at the final premium recommendations.

## EXHIBIT A

## Fiscal Year 2016 Workers' Compensation Settlements

Claimant Name	Date of Injury	Settlement Amount	Future Exposure	Cost Avoidance due to Settlement
Matilde St. Cyr	12/26/2013	\$ 8,333.33	\$ 109,518.24	\$ 101,184.91
Latoya P Waddler	3/7/2012	\$ 15,000.00	\$ 26,131.14	\$ 11,131.14
Josef A. Espinosa	8/1/2007	\$ 32,000.00	\$ 49,196.86	\$ 17,196.86
David Botkin	6/19/2013	\$ 46,235.42	\$ 239,227.01	\$ 192,991.59
Morris Daniels	7/11/2014	\$ 11,000.00	\$ 33,496.24	\$ 22,496.24
Betty Hudson	1/30/2015	\$ 22,250.00	\$ 46,655.13	\$ 24,405.13
<b>TOTALS</b>		<b>\$ 134,818.75</b>	<b>\$ 504,224.62</b>	<b>\$ 369,405.87</b>

**COMMONWEALTH OF VIRGINIA  
SELF INSURANCE FUND  
WORKERS' COMPENSATION PREMIUM FOR FISCAL YEARS 2018 & 2019**

Agency Code	Agency Name	FY 2017 Actual Premium	Projected Premium	
			Pay As You Go FY 2018	Pay As You Go FY 2019
(1)	(2)	(3)	(4)	(5)
100	Senate of Virginia	10,992	10,433	10,702
101	Virginia House of Delegates	15,243	14,878	15,262
103	Magistrate System	34,088	30,976	31,777
107	Division of Legislative Services	6,234	5,617	5,763
109	Division of Legislative Automated Systems	2,320	2,096	2,150
110	Joint Legislative Audit and Review Commission	3,285	3,135	3,216
111	Supreme Court of Virginia	40,767	18,831	19,318
112	Judicial Inquiry and Review Commission	537	501	514
113	Circuit Courts	31,375	37,208	38,170
114	General District Courts	61,049	58,564	60,078
115	Juvenile and Domestic Relations District Courts	91,275	53,855	55,247
116	Combined District Courts	14,558	13,704	14,058
117	Virginia State Bar	10,270	9,864	10,119
119	Lieutenant Governor	236	225	231
121	Office of the Governor	3,764	3,789	3,887
122	Department of Planning and Budget	5,483	5,210	5,345
123	Department of Military Affairs	354,589	450,227	461,864
125	Court of Appeals of Virginia	9,531	9,408	9,651
127	Department of Emergency Management	16,495	21,662	22,222
129	Department of Human Resource Management	9,419	9,289	9,529
132	Department of Elections	2,260	2,231	2,289
133	Auditor of Public Accounts	9,207	8,522	8,742
136	Virginia Information Technologies Agency	26,635	20,299	20,823
140	Department of Criminal Justice Services	9,295	8,642	8,865
141	Attorney General and Department of Law	33,295	36,051	36,982
146	The Science Museum of Virginia	25,704	14,696	15,076
147	Office of the State Inspector General	3,759	3,915	4,017
148	Virginia Commission for the Arts	452	394	404
151	Department of Accounts	13,444	12,360	12,679
152	Department of the Treasury	9,925	8,590	8,812
154	Department of Motor Vehicles	672,414	741,290	760,450
156	Department of State Police	6,605,199	6,250,200	6,411,748
157	Compensation Board	1,393	1,332	1,367
158	Virginia Retirement System	30,343	29,388	30,147
160	Virginia Criminal Sentencing Commission	925	879	902

161	Department of Taxation	70,114	68,994	70,778
162	Department of Accounts Transfer Payments	140	145	149
165	Department of Housing and Community Development	10,097	8,458	8,677
166	Secretary of the Commonwealth	1,476	1,390	1,426
171	State Corporation Commission	102,448	103,683	106,363
172	Virginia Lottery	43,752	52,103	53,449
174	Virginia College Savings Plan	9,263	8,903	9,133
175	Virginia Office for Protection and Advocacy	0	0	0
180	Secretary of Administration	1,154	1,079	1,107
181	Department of Labor and Industry	53,696	48,625	49,882
182	Virginia Employment Commission	107,534	93,438	95,853
183	Secretary of Natural Resources	656	618	634
184	Secretary of Technology	490	441	453
185	Secretary of Education	675	634	651
186	Secretary of Transportation	908	844	866
187	Secretary of Public Safety	1,053	972	997
188	Secretary of Health and Human Resources	667	609	625
190	Secretary of Finance	637	578	593
191	Virginia Workers' Compensation Commission	88,244	97,314	99,830
192	Secretary of Commerce and Trade	577	550	564
193	Secretary of Agriculture and Forestry	423	394	404
194	Department of General Services	264,501	291,217	298,744
199	Department of Conservation and Recreation	761,488	785,134	805,427
200	Childrens Services Act	1,353	1,110	1,139
201	Department of Education, Central Office Operations	29,006	29,643	30,409
202	The Library of Virginia	10,695	9,471	9,716
203	Wilson Workforce and Rehabilitation Center	290,491	262,082	268,856
204	The College of William and Mary In Virginia	612,697	667,561	684,815
207	University of Virginia	4,205,406	3,982,659	4,085,598
208	Virginia Polytechnic Institute and State University	3,229,640	3,167,904	3,249,785
209	University of Virginia Medical Center	7,037,168	7,091,233	7,274,520
211	Virginia Military Institute	332,203	282,285	289,581
212	Virginia State University	214,869	194,482	199,509
213	Norfolk State University	393,638	347,601	356,586
214	Longwood University	277,182	326,297	334,731
215	University of Mary Washington	375,799	417,561	428,354
216	James Madison University	1,477,715	1,467,621	1,505,554
217	Radford University	528,041	521,616	535,099
218	Virginia School for the Deaf and the Blind	54,436	54,227	55,628
221	Old Dominion University	966,749	1,010,406	1,036,522
222	Department of Professional and Occupational Regulation	13,616	12,736	13,065
223	Department of Health Professions	26,707	26,329	27,010
226	Board of Accountancy	978	968	993
229	VPI Cooperative Extension and Agricultural Experiment Station	205,564	201,489	206,697
233	Board of Bar Examiners	1,056	965	990
234	VSU Cooperative Extension and Agricultural Research Services	13,852	15,625	16,029
236	Virginia Commonwealth University	1,715,621	1,846,566	1,894,294
238	Virginia Museum of Fine Arts	124,673	138,261	141,835
239	Frontier Culture Museum of Virginia	6,719	6,286	6,448
241	Richard Bland College	35,124	35,038	35,943
242	Christopher Newport University	434,873	458,673	470,528



245	State Council of Higher Education for Virginia	4,180	4,248	4,357
246	University of Virginia's College at Wise	116,443	122,101	125,257
247	George Mason University	1,030,054	1,210,915	1,242,213
260	Virginia Community College System	2,314,201	2,566,895	2,633,241
262	Department of Rehabilitative Services	120,198	87,421	89,680
263	Virginia Rehabilitation Center for the Blind and Vision Impaired	4,103	3,964	4,066
268	Virginia Institute of Marine Science	147,612	206,819	212,165
301	Department of Agriculture and Consumer Services	127,639	134,547	138,025
307	Virginia Agricultural Council	33	13	13
330	Virginia-Israel Advisory Board	217	181	186
350	Department of Small Business and Supplier Diversity	3,194	2,775	2,846
400	Jamestown 2007	0	161	165
402	Marine Resources Commission	241,280	198,477	203,607
403	Department of Game and Inland Fisheries	609,725	571,026	585,785
405	Virginia Racing Commission	887	2,346	2,406
409	Department of Mines, Minerals and Energy	237,614	293,235	300,814
411	Department of Forestry	315,923	260,909	267,653
413	Commission on the Virginia Alcohol Safety Action Program	1,305	2,958	3,034
417	Gunston Hall	2,675	2,803	2,875
423	Department of Historic Resources	9,461	9,744	9,996
425	Jamestown-Yorktown Foundation	121,542	107,746	110,531
440	Department of Environmental Quality	362,281	401,199	411,568
454	Office of Commonwealth Preparedness	909	842	864
501	Department of Transportation	13,150,941	12,106,403	12,419,317
505	Department of Rail and Public Transportation	6,529	6,642	6,814
506	Motor Vehicle Dealer Board	3,352	4,877	5,003
601	Department of Health	1,292,929	1,599,769	1,641,118
602	Department of Medical Assistance Services	44,954	44,901	46,062
606	Virginia Board for People with Disabilities	782	807	828
702	Department for the Blind and Vision Impaired	101,986	82,658	84,795
720	Department of Behavioral Health and Developmental Services	68,294	68,483	70,253
751	Department for the Deaf and Hard-of-Hearing	827	801	822
765	Department of Social Services	223,898	202,363	207,594
766	Virginia Parole Board	1,546	1,426	1,463
777	Department of Juvenile Justice	2,722,339	2,908,304	2,983,475
778	Department of Forensic Science	211,438	195,213	200,259
792	Mental Health Treatment Centers	8,329,358	8,612,975	8,835,594
793	Intellectual Disabilities Training Centers	3,850,889	3,216,402	3,299,537
794	Virginia Center for Behavioral Rehabilitation	645,864	571,318	586,085
799	Department of Corrections	9,030,579	9,238,206	9,476,986
820	Capitol Square Preservation Council	135	140	144
834	Virginia Freedom of Information Advisory Council	208	203	208
839	Virginia Commission on Youth	401	324	332
841	Department of Aviation	35,102	38,380	39,372
842	Chesapeake Bay Commission	99	93	96
844	Joint Commission on Health Care	681	581	596
847	Joint Commission on Technology and Science	149	102	105
848	Indigent Defense Commission	43,683	48,936	50,201
859	Virginia Sesquicentennial of the American Civil War Commission	71	0	0
876	Virginia Conflict of Interest and Ethics Advisory Council	0	255	261
912	Department of Veterans Services	526,904	669,319	686,619

937	Southern Virginia Higher Education Center	2,853	2,886	2,961
938	New College Institute	1,180	956	981
942	Virginia Museum of Natural History	2,500	2,344	2,404
948	Southwest Virginia Higher Education Center	8,456	6,800	6,976
957	Commonwealth's Attorneys' Services Council	671	661	678
960	Department of Fire Programs	134,512	111,939	114,832
961	Division of Capitol Police	115,004	150,460	154,349
999	Department of Alcoholic Beverage Control	1,798,743	1,778,874	1,824,852
	Statewide Total	80,430,952	79,907,205	81,972,563

# **FY 2018 AND 2019 WORKERS' COMPENSATION PREMIUM ALLOCATION**

COMMONWEALTH OF VIRGINIA

SEPTEMBER 19, 2016



Oliver Wyman  
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Ms. Kristie McClaren, Director  
Workers Compensation Program  
Department of Human Resource Management  
Workers' Compensation Services  
Commonwealth of Virginia  
James Monroe Building, 6th Floor  
101 North 14th Street  
Richmond, Virginia 23219

September 19, 2016

Subject: FY 2018 and FY 2019 Workers' Compensation Premium Allocation

Dear Kristie:

Enclosed please find our allocation of workers' compensation self-insured program premium for FY 2018 and FY 2019. By "premium," we mean the amount that the Department of Human Resource Management, Workers' Compensation Services (DHRM/WCS) charges back to each agency within the Commonwealth in order to cover the costs of the self-insurance program. You requested that we provide an allocation, based on data valued as of March 31, 2016, for fiscal years ending June 30, 2018 and June 30, 2019.

The attached text and exhibits summarize our methods and results.

Sincerely,

A handwritten signature in blue ink that reads "Jennifer K Price".

Jennifer K. Price, FCAS, MAAA  
Direct Dial: (404) 239-6421

A handwritten signature in blue ink that reads "Chad C. Wischmeyer".

Chad C. Wischmeyer, FCAS, MAAA, CFA  
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Enclosure

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# 1

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## Executive Summary

### Purpose

Oliver Wyman Actuarial Consulting, Inc. (Oliver Wyman) was asked by Department of Human Resource Management, Workers' Compensation Services (DHRM/WCS) to provide an allocation of the projected FY 2018 and FY 2019 costs of the workers' compensation self-insurance program to the Commonwealth's agencies. The allocation is designed to reflect the historical experience of the individual agencies. We relied on our preliminary June 30, 2016 annual analysis of the overall self-insurance program which was completed using data valued as of March 31, 2016.

### Results

DHRM/WCS requested that we allocate three specific figures based on our preliminary analysis as of June 30, 2016. These figures represent the total of the projected program and administrative expenses and projected losses for FY 2018 and FY 2019 under the following three scenarios. It should be noted that the scenarios defined below refer to FY 2018 only; however, they are equally applicable to FY 2019.

1. Indicated Undiscounted Actuarial Premium - the premium required to pay the ultimate cost of claims anticipated to occur during FY 2018 plus the FY 2018 program and administrative expenses.

It should be noted that the indicated actuarial premium does not include any provision to reduce the projected deficiency in the workers' compensation fund. In addition, the premium estimates contain no margin for potential adverse contingencies.

2. Pay As You Go (CashFlow) - our projection of loss and expense payments (net of anticipated investment income) to be made during FY 2018 on all accident years.
3. Pay As You Go (CashFlow) Plus One Year's CashFlow – the projection of loss and expense payments (net of anticipated investment income) to be made during FY 2018 plus the amount required so that the FY 2018 ending fund balance is equal to the estimated FY 2019 cashflow.

DHRM requested that we allocate the three overall premium figures to individual agencies with no capping of individual agency premium changes. Exhibit 1 shows actual FY 2017 premium and projected FY 2018 and FY 2019 premium on a "Pay As You Go" basis, using experience modification factors derived based on the NCCI experience modification formula.

In general, the allocation process first estimates a commercial premium figure for each agency. The commercial premium is derived from the agency payroll by NCCI class code, the latest NCCI loss costs in Virginia, the agency experience modification factor, and an estimated expense loading. The target statewide premium for the Commonwealth is then allocated to individual agencies in proportion to their estimated commercial premiums.

For many of the agencies with the largest indicated changes, the loss experience has been considerably worse than the overall average. Exhibit 2 presents estimated ultimate loss ratios (including IBNR) by agency. Individual agency loss ratios can be compared to the overall loss ratio of 120.7% to determine if an individual agency's experience is better or worse than average. Individual agency premium changes are also influenced by the payroll underlying the calculations. A comparison of the payroll underlying the FY 2017 and FY 2018 premium calculations is shown in column (3) of Exhibit 5. To allow for meaningful comparisons, the FY 2017 payroll shown on this exhibit only is the estimate provided for our FY 2017 premium allocation as opposed to any updated figures.

It is important to note that this analysis depends heavily on the payroll provided by the Department of Planning and Budget. If the provided payroll is incorrect or incomplete, our projections will likely need to be revised. Historical and projected payroll and premiums by agency are displayed in Exhibit 4.

## Accounting Projections

The Accounting Projections section presents our five-year accounting projections for the Workers' Compensation program. These exhibits show our projections of various income statement and balance sheet items for this five-year period under several premium scenarios.

The first row of each accounting exhibit shows the fund balance at the beginning of the year. For 2016, the fund balance at the beginning of the year is the fund balance as of June 30, 2015 as provided by the Commonwealth. For other fiscal years, it is the fund balance at the end of the prior fiscal year (row 8). For example, the ending fund balance for FY 2016 becomes the beginning of the year fund balance for FY 2017. The premium shown on row 2 varies depending on the funding assumptions presented.

Row 3 represents transfers. Row 4 represents our projections of loss payments by fiscal year for all accident years combined.

The program expenses (row 5) and administrative expenses (row 6) for 2016 through 2021 were provided by DHRM/WCS.

The anticipated investment income is presented as row 7. For FYs 2017 through 2021, this projection is based on the fund balance at the beginning of the year, assumed premium collections at the beginning of the year, loss and expense payments made evenly throughout



the year, and an assumed rate of return. Per instructions from WCS, we use an annual rate of return of 1.38%.

The inflow of funds (i.e. premium and investment income) is added to the fund balance at the beginning of the year and projected outflows (i.e., loss payments, program expenses, administrative expenses, and transfers) are subtracted from this total to arrive at the projected end of year fund balance (row 8). For comparison purposes, our projected undiscounted and discounted reserves at the end of each fiscal year are presented in rows 9 and 10, respectively. The resulting fund positions are presented in rows 11 and 12 on an undiscounted and a discounted basis, respectively.

The two major components of the accounting projections are expected revenue (i.e., premium and investment income) and expected losses and expenses. The loss portion of the accounting projections is subject to actuarial analysis. The revenue portion is dependent upon the level of funding available from the Commonwealth. We provide accounting projections under various assumptions, as discussed above and in the following paragraphs.

## Premium Scenarios

The premiums for 2016 and 2017 were provided by DHRM/WCS. For 2018 through 2021, the accounting projections are presented using the following six premium scenarios:

- Premium Based on Projected Cashflow
- Premium Based on Projected Cashflow Plus One Year's Cashflow
- Premium Based on Projection of Undiscounted Losses and Expenses
- Premium Based on Projection of Discounted Losses and Expenses
- Oliver Wyman Recommended Funding
- 2018 Premium Equal to 2017 Premium

Exhibit ACCT PROJ-1 shows the Cashflow, or Pay As You Go projected premiums and fund balances. The Cashflow premiums represent our projections of loss and expense payments to be made during FYs 2018 through 2019. Exhibit ACCT PROJ-2 shows the "Cashflow Plus One Year's Cashflow" premium scenario. Under this scenario, the premium collected for FY 2018 is equal to the estimated loss and expense payments to be made (net of anticipated investment income) during FY 2018 plus the amount required so that the FY 2018 ending fund balance is equal to the FY 2019 cash flow.

Exhibit ACCT PROJ-3 shows the projected fund balances using the undiscounted actuarial premium estimates. The undiscounted actuarial premium estimates are the premium amounts required to pay the ultimate cost of claims anticipated to occur during FY 2018 through FY 2021 plus the program and administrative expenses in each of these years. Exhibit ACCT PROJ-4 shows the projected fund balances using the discounted actuarial premium estimates. This scenario considers the investment income that could be earned on the premium until the loss

and expense payments come due if the premium funds were invested and yield a 1.38% annual rate of return.

The Oliver Wyman Recommended Funding amount assumes that the Commonwealth is committed to a fully funded program on an undiscounted basis. That is, we have assumed that the Commonwealth will make a non-recurring contribution in FY 2018 in an amount equal to the undiscounted fund deficiency as of June 30, 2017, and that each year's fully funded premium is equivalent to undiscounted expected ultimate losses plus all expenses of program operation. This can be seen in Exhibit ACCT PROJ-5.

Exhibit ACCT PROJ-6 shows the projected fund balances where 2018 premium equals 2017 premium and 2019 through 2021 premiums are based on estimated cash flows.

Please note that Virginia Commonwealth University Hospital Authority (VCUHA) is not submitting claims for accidents occurring on or after July 1, 2001. Therefore, the premium and loss payment estimates in the accounting projections do not include a provision for VCUHA losses occurring in FY 2002 and subsequent. The premium and loss payment estimates do include a provision for payments on any VCUHA claims with accident dates prior to July 1, 2001. The VCUHA premiums for FYs 2017 through 2021 were derived in Oliver Wyman's June 30, 2016 analysis of VCUHA's workers' compensation losses.

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## Data

For purposes of this report, DHRM/WCS and the Department of Planning and Budget provided the following information:

1. Payroll by agency for FY 2013-2015 and budgeted payroll by agency for FY 2018-2019.
2. Actual losses as of March 31, 2016, by agency, for accidents occurring in FY 2013-2015.
3. Actual charged premiums by agency for FY 2013-2017.

In addition, we relied on Virginia loss costs and experience rating plan values effective April 1, 2016 and established by the National Council on Compensation Insurance.

For the majority of the agencies, 2013, 2014, and 2015 payroll were distributed to workers' compensation class code using actual data for fiscal year 2013, fiscal year 2014, and fiscal year 2015, respectively. Payroll for 2018 and 2019 was distributed to class code based on actual data for fiscal year 2015 provided by the Department of Accounts.

For the following agencies, results of 2004 payroll audits were used to distribute payroll to workers' compensation class codes for FY 2013 through FY 2019.

<u>Agency Number</u>	<u>Agency Name</u>
204	The College of William & Mary
207	University of Virginia
208	Virginia Polytechnic Institute & State University
209	University of Virginia Medical Center
211	Virginia Military Institute
214	Longwood University
215	University of Mary Washington
216	James Madison University
221	Old Dominion University
236	Virginia Commonwealth University
246	University of Virginia at Wise
247	George Mason University
268	Virginia Institute of Marine Science

For the following agencies, updated payroll by class code was not available and therefore we used the same distribution as in our prior report:

<u>Agency Number</u>	<u>Agency Name</u>
948	Southwest VA High Ed Center

For the following agencies, updated payroll by class code was not available and therefore, consistent with instructions from DHRM/WCS for our prior report, we assumed all the payroll was allocated to class code 8810:

<u>Agency Number</u>	<u>Agency Name</u>
307	Virginia Agriculture Council
820	Capitol Square Preservation Council
834	Virginia Freedom of Information Advisory Council
839	Virginia Commission of Youth
842	Chesapeake Bay Commission
844	Joint Commission on Health
847	Comm. on Tech. & Sciences
859	Virginia Sesquicentennial of the American Civil War Commission

Several agencies are using the payroll distributions of the agencies with which they were previously included. Specifically, agency 200 (Comprehensive Services for At-Risk Youth and Families) is using the payroll distribution of agency 765 (Department of Social Services) in FY 2013 and FY 2014. Agency 229 (VPI & SU Coop Ext Agri Expmt) is using the payroll distribution of agency 208 (Virginia Polytechnic Institute & State University). Agency 241 (Richard Bland College) is using the payroll distribution of agency 204 (The College of William & Mary). Agency 876 (Virginia Conflict of Interest and Ethics Advisory Council) is using the payroll distribution of agency 107 (Division of Legislative Services). For agency 961 (Division of Capitol Police), we were instructed to use payroll distribution of FY2012 for FY2013. For agency 766 (Virginia Parole Board), we were instructed to allocate all payroll to class code 8810 because some positions were incorrectly classified as class code 7720. In addition, for agency 405 (Virginia Racing Commission), we were instructed to allocate payroll of class code 8833 to class code 9410 because the positions were incorrectly classified as class code 8833.

Please note that Virginia Commonwealth University Hospital Authority (VCUHA) is not submitting claims for accidents occurring on or after July 1, 2001. Therefore, none of the total premium amounts under each of the three scenarios include any provision for VCUHA losses. A separate premium structure for VCUHA losses occurring during FYs 2001 and prior has been established in a study as of June 30, 2016.

# 3

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## Methodology

### *STEP 1 Calculate FY 2018 Manual Premium*

Manual Premium is equal to the product of payroll (in hundreds of dollars) and the National Council on Compensation Insurance (NCCI) loss cost per hundred dollars of payroll, by class code. The NCCI files advisory loss costs by class code which include a provision for statutory losses and loss adjustment expense. They do not include expense provisions for production, general expense, taxes, and profit and contingency allowance. We added a provision of 25% of premium for these expenses to allow comparison to premiums under a commercially-insured program. ***This provision for expenses was included for comparison purposes only; it does not constitute an opinion as to an appropriate expense ratio for the Commonwealth's self-insured program and does not affect the resulting allocation of premium to the Commonwealth's agencies.***

### *STEP 2 Calculate Experience Modification Factors*

An experience modification factor is intended to capture the relationship between the loss potential of an individual insured relative to the average for the class of insureds. For example, if the loss experience of an insured in the last three years indicates losses 10% lower than the average for similar insureds, then we would assign an experience modification of 0.90 to that insured and apply that factor to their manual premium for the prospective years.

We have allocated premiums using the experience modification factor formula published by NCCI. The formula, as published, is:

$$\text{ExperienceModificationFactor} = M = \frac{A_p + [W \times A_e] + [(1 - W) \times E_e] + B}{E + B}$$

$A$  represents the actual losses of the agency for accidents occurring in FY 2013-2015.  $E$  represents the expected losses for the same period according to the NCCI Experience Rating Plan. The weighting factor ( $W$ ) and ballast value ( $B$ ) vary with the size of the insured. These two values are the means by which the actuarial concept of credibility is reflected in the experience rating plan. Credibility is a means of assigning weight to the indication of a given body of information relative to another independent indication (in this case, an experience modification factor of 1.00), based on characteristics of the insured (such as size).

The subscripts indicate primary and excess losses, according to the definitions in the NCCI Experience Rating Plan Manual. Actual primary losses reflect claim frequency, and include the

first \$16,000 of each loss. Actual excess losses are obtained by subtracting the actual primary losses from the actual incurred losses, where the actual incurred losses are limited to \$245,000. In addition, as prescribed by NCCI, medical only losses are reduced by 70% in the experience modification factor calculation.

Our calculations differ slightly from strict application of the NCCI formula in two respects. First, the NCCI formula is intended to apply to pure loss (indemnity and medical) amounts only. We have included allocated loss adjustment expenses (i.e. expenses assigned to individual claims) with losses. However, the Commonwealth's allocated loss adjustment expenses are minimal and therefore we do not believe this issue is material. Second, the NCCI formula requires that single-claim accidents be limited to \$245,000 and multiple-claim accidents be limited to a total of \$490,000. For simplicity in this analysis, we have limited each individual claim to \$245,000 without any multiple-claim accident limits.

New agencies are assigned an experience modification factor of 1.00. As experience for the new agency becomes available, the agency's experience modification factor will be based on its own experience.

### *STEP 3 Calculate FY 2018 and FY 2019 Estimated Commercial Premiums*

The estimated commercial premium for each agency is equal to the manual premium, calculated in Step 1, multiplied by the experience modification factor calculated in Step 2. The sum of the agency estimated commercial premiums is shown at the bottom of column (8) (Exhibit 2 for FY 2018 and Exhibit 3 for FY 2019). It should be noted that the loss portion of the commercial premiums are derived using loss costs and an experience rating formula published by NCCI. If the Commonwealth were to seek a commercial insurance policy, they would be rated based on their own loss experience as opposed to this formulaic approach (which only uses the loss experience to a limited extent) and the resulting premium would be significantly different.

Agencies 147 and 162 were new agencies effective July 1, 2012 and agency 400 was a new agency effective April 22, 2016. Since the Commonwealth charges premiums on a pay as you go basis, the estimated commercial premiums for these agencies have been adjusted to only include a provision for payments on claims with accident dates of July 1, 2012 and subsequent for agencies 147 and 162 and accident dates of April 22, 2016 and subsequent for agency 400.

Column (8) of Exhibit 2 shows a statewide total FY 2018 estimated commercial premium of \$69,878,117. This is the sum of the estimated commercial premiums calculated for each agency; that is, each agency is assigned a credibility factor in calculating its own experience modification factor. Below the statewide total is a "Target" estimated commercial premium of \$72,747,940. This target premium was calculated for the Commonwealth as a whole; that is, one credibility factor is assigned to the Commonwealth as a whole and one experience modification factor is calculated for the Commonwealth as a whole. The two premiums differ due to the credibility of individual agencies versus the credibility for the Commonwealth as a whole. ***The "Target" estimated commercial***

***premium is shown for illustrative purposes only; the allocation of the recommended premium is based on the premium calculations by agency.***

### ***STEP 4 Adjusted FY 2018 and FY 2019 Estimated Commercial Premium***

The FY 2018 and FY 2019 Adjusted Estimated Commercial Premiums are derived by applying uniform factors to the FY 2018 and FY 2019 Estimated Commercial Premiums of each agency so that the total Estimated Commercial Premiums equals the Statewide targets. Additionally, the adjusted Estimated Commercial Premium reflects nine months of loss cost trend for FY 2018 and twenty-one months of loss cost trend for FY 2019 between the average accident date underlying the NCCI loss costs and the average accident dates of FY 2018 and FY 2019.

### ***STEP 5 Calculate Other Targets***

There are three different total premium figures which are allocated in Exhibits 2 and 3. These represent the scenarios requested by DHRM/WCS. The scenarios, which are defined for FY 2018 only, are:

1. Indicated Undiscounted Actuarial Premium - the premium required to pay the ultimate cost of claims anticipated to occur during FY 2018 plus the FY 2018 program and administrative expenses.

It should be noted that the indicated actuarial premium does not include any provision to reduce the projected deficiency in the workers' compensation fund. In addition, the premium estimates contain no margin for potential adverse contingencies.

2. Pay As You Go (CashFlow) - our projection of loss and expense payments (net of anticipated investment income) to be made during FY 2018 on all accident years.
3. Pay As You Go (CashFlow) Plus One Year's Cashflow – the projection of loss and expense payments (net of anticipated investment income) to be made during FY 2018 plus the amount required so that the FY 2018 ending fund balance is equal to the estimated FY 2019 cash flow.

All of the above are based on our preliminary reserve analysis as of June 30, 2016.

### ***STEP 6 Allocation***

Each of the targets described above is allocated to the individual agencies in proportion to the Estimated FY 2018 and FY 2019 Adjusted Estimated Commercial Premium.

## **Key Assumptions**

1. We used advisory loss costs and the experience rating plan filed by the National Council on Compensation Insurance (NCCI) in Virginia as the basis for our calculation of modified FY

2018 manual premium which in turn was used to allocate the overall premium. We are assuming that these rating values are appropriate for allocation purposes for the Commonwealth and its agencies.

2. We generally used the listing of agencies with payroll in FY 2018 and/or FY 2019 to allocate FY 2018 and FY 2019 costs. If there is an agency which does not appear in that listing but which should have been allocated a share of the costs for FY 2018 and FY 2019, we will need to revise our allocation.
3. For the majority of the agencies, 2013, 2014, and 2015 payroll were distributed to workers' compensation class code using actual data for fiscal year 2013, fiscal year 2014, and fiscal year 2015 provided by the Department of Accounts. Exceptions are documented in the Methodology section of this report.
4. We assumed an annual loss trend of approximately -0.1% in excess of payroll increases.
5. We included a provision of 25% of premium for production, general expense, taxes, and profit and contingency allowance in order to allow comparison to commercially-insured programs. We are not expressing any opinion as to the appropriateness of this expense ratio for the self-insured program of the Commonwealth. This assumption does not affect the allocation of premium.



# 4

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## Distribution and Use

Usage and Responsibility of Client - This analysis was prepared for the sole use of the Commonwealth, specifically DHRM/WCS, and its accountants, auditors and attorneys, for the purpose of allocating program funding amounts to individual agencies. The conclusions in this study are related to its stated purpose only and may not be applicable for other purposes. All decisions in connection with the implementation or use of advice or recommendations contained in this report are the sole responsibility of DHRM/WCS.

Third Party Reliance and Due Diligence - Oliver Wyman's consent to any distribution of this report (whether herein or in the written agreement pursuant to which this report has been issued) to parties other than DHRM/WCS does not constitute advice by Oliver Wyman to any such third parties and shall be solely for informational purposes and not for purposes of reliance by any such third parties. Oliver Wyman assumes no liability related to third party use of this report or any actions taken or decisions made as a consequence of the results, advice or recommendations set forth herein. This report should not replace the due diligence on behalf of any such third party.

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## Considerations and Limitations

**Data Verification (Claim and Exposure)** – For our analysis, we relied on data and information provided by DHRM/WCS without independent audit. Though we have reviewed the data for reasonableness and consistency, we have not audited or otherwise verified this data. It should also be noted that our review of data may not always reveal imperfections. We have assumed that the data provided is both accurate and complete. The results of our analysis are dependent on this assumption. If this data or information is inaccurate or incomplete, our findings and conclusions may need to be revised.

**Discounting** – Additional uncertainty is introduced with discounting of unpaid loss and ALAE. In addition to the risk of underestimating or overestimating the overall amount of the nominal unpaid loss and ALAE, there is the additional risk that the timing of the future payment of those liabilities will differ from the expected payout, or that the future actual yield on the underlying assets (if any) will differ from the assumed yield rate used for determining present value factors. Actual loss and ALAE payments could occur materially more or less rapidly than projected, due to random variations. We have not included any specific provision for this additional risk.

**Interest Rate** – We used an interest rate of 1.38% to discount loss reserves. The 1.38% interest rate was provided by DHRM/WCS. Evaluation of the reasonableness of the 1.38% rate is outside the scope of our analysis.

**Prospective Accident Period Estimates** – The prospective accident period estimates used in this analysis are based on estimated loss costs and the projected exposures. It should be noted that prospective period loss and ALAE estimates are directly related to the projected exposures. Therefore, if actual exposures differ from the projection, prospective accident period estimates would need to be adjusted accordingly.

**Rounding and Accuracy** – Our models may retain more digits than those displayed. In addition, the results of certain calculations may be presented in the exhibits with more or less digits than would be considered significant. As a result, it should be recognized that (i) there may be rounding differences between the results of calculations presented in the exhibits and replications of those calculations based on displayed underlying amounts, and (ii) calculation results may not have been adjusted to reflect the precision of the calculation.

**Unanticipated Changes** – Our conclusions are based on an analysis of the DHRM/WCS data and on the estimation of the outcome of many contingent events. Future costs were developed from the historical claim experience and covered exposure, with adjustments for anticipated changes. Our estimates make no provision for extraordinary future emergence of new classes

of losses or types of losses not sufficiently represented in historical databases or which are not yet quantifiable.

**Internal / External Changes** – The sources of uncertainty affecting our estimates are numerous and include factors internal and external to DHRM/WCS. Internal factors include items such as changes in claim reserving or settlement practices. The most significant external influences include, but are not limited to, changes in the legal, social, or regulatory environment surrounding the claims process. Uncontrollable factors such as general economic conditions also contribute to the variability.

**Uncertainty Inherent in Projections** – While this analysis complies with applicable Actuarial Standards of Practice and Statements of Principles, users of this analysis should recognize that our projections involve estimates of future events, and are subject to economic and statistical variations from expected values. We have not anticipated any extraordinary changes to the legal, social, or economic environment that might affect the frequency or severity of claims. For these reasons, no assurance can be given that the emergence of actual losses will correspond to the projections in this analysis.

**Medicare, Medicaid and SCHIP Extension Act** – The Medicare, Medicaid and SCHIP Extension Act of 2007 (the Act) was enacted in part to ensure that Medicare does not pay medical benefits for beneficiaries whose medical treatments arise out of a liability or work-related accident. While Medicare has always been a secondary payer of these benefits, Medicare's rights to reimbursement have not been frequently exercised in the past (particularly for liability claims). New reporting requirements under the Act enable Medicare to enforce its liens against primary payers and effectuate the reimbursement process. The ability of liability and workers' compensation insurers to procure full and final medical settlements is likely to be substantially diminished under this Act. The passage of this Act increases the uncertainty in any estimate of ultimate losses and we have not attempted to quantify the impact of this Act on DHRM/WCS's projected ultimate losses.

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## Acknowledgment of Qualifications

Jennifer Price and Chad Wischmeyer are both Fellows of the Casualty Actuarial Society (FCAS) and Members of the American Academy of Actuaries (MAAA) and meet the Qualification Standards of the American Academy of Actuaries to provide the actuarial analysis contained herein.

# 7

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## Glossary

### Accident Period

The period in which the event giving rise to a claim occurred, regardless of when the claim is actually reported.

### Actuarial Central Estimate

An estimate that represents an expected value over the range of reasonably possible outcomes. Such range of reasonably possible outcomes may not include all conceivable outcomes.

### Allocated Loss Adjustment Expense (ALAE)

Expense costs associated with the handling and settling of an individual claim that can be directly attributed to the particular claim. Fees paid to outside defense attorneys and investigation firms are examples of this expense cost.

### Case Reserves

The unpaid loss estimates established by adjusters on an individual claim basis.

### Claim

A demand for payment under the coverage provided by a plan or contract. As used throughout this Glossary, it also includes suits, potentially compensable events, notifications, and unasserted claims.

### Claim Frequency

The number of claims that occur over a period of time per unit of exposure.

### Claim Reporting Pattern

The rate at which claims are assumed to be reported over time.

### Claim Severity

The average cost per claim.

### Coefficient of Variation

A statistical measure of dispersion. The coefficient of variation is calculated as the standard deviation of the random process divided by the expected value (mean).

### Credibility

A measure of the predictive value of a body of data.

**Development**

The change between valuation dates in the observed values of certain fundamental quantities that may be used in the unpaid loss estimation process.

For example, the number of reported claims associated with events occurring within a particular period will change from one valuation date to the next until all claims have been reported. In a similar fashion, the paid loss amounts for events occurring within a particular period will change from one valuation date to the next until all claims have been reported and closed. The change in the number of reported claims or the change in the paid loss amounts is referred to as development. The concept of development also applies to reported incurred losses.

**Estimated Ultimate Incurred Losses**

The estimated cost of claims during a period. Ultimate incurred losses represent the total of paid claim amounts, case reserves, and IBNR.

**Event**

The incident or activity that triggers potential for loss or allocated loss adjustment expense payment.

**Exposure**

A measure of the underlying potential for claim costs.

**IBNR**

The unpaid loss estimate for: (a) events that have occurred for which claims have not been reported as of the accounting date, (b) future development of the case reserves, (c) claims that have been reported but not yet recorded in the loss listing, and (d) claims that have been closed but that will be reopened.

**Loss**

The cost associated with a claim. The cost may or may not include loss adjustment expenses.

**Loss Adjustment Expenses**

The costs of administering, determining coverage for, settling, or defending claims. Loss adjustment expenses include allocated loss adjustment expenses and unallocated loss adjustment expenses.

**Loss Cost / Pure Premium**

The loss amount per exposure unit.

**Method**

The systematic procedure for developing an actuarial estimate.

**Model**

A mathematical or empirical representation of a specified phenomenon.

**Occurrence Insurance Coverage**

A policy that provides coverage for all claims arising from events that occur during the policy period, no matter when they are reported.

**Occurrence Period**

The period in which the event giving rise to a claim occurred, regardless of when the claim is actually reported.

**Paid Losses**

The total aggregate dollar amount paid on all reported claims as of a certain date.

**Payment Pattern**

The rate at which claims are paid over time.

**Recorded Date**

The date on which the claim is first entered in the statistical records of the insurer or claims administrator.

**Recorded Loss Reserve or Liability**

The provision for unpaid loss amounts shown in a published financial statement or in an internal statement of financial condition.

**Report Date**

The date on which the claim is first reported or recorded (in practice it is often taken to be the recorded date).

**Report Period**

The period in which a claim is reported, regardless of the time period in which the event occurred.

**Reported Incurred Loss Amount**

The total of paid loss amounts and case reserves.

**Review Date**

The date through which information is considered in the unpaid loss estimate analysis.

**Salvage**

Recoveries due to the sale of damaged or recovered property.

**Subrogation**

Recoveries from a third party responsible for the event for which a claim has already been paid.

**Unallocated Loss Adjustment Expense (ULAE)**

Loss adjustment expenses that cannot be attributed to an individual claim. Typically includes salaries, utilities, and rent apportioned to the loss adjustment expense function but not readily assignable to specific claims.

**Undiscounted Unpaid Loss Estimate**

The unpaid loss estimate presented on a basis that does not reflect the time value of money.

**Unpaid Loss Estimate**

The estimate of the obligation for future payments resulting from losses due to past events.

**Valuation Date**

The date through which transactions are included in the data used in the unpaid loss estimate analysis.



# Exhibits

**COMMONWEALTH OF VIRGINIA**  
**SELF INSURANCE FUND**  
**WORKERS' COMPENSATION PREMIUM FOR FISCAL YEARS 2018 & 2019**  
**PERCENTAGE CHANGE FROM FY 2017 PREMIUM**  
**EXPERIENCE MODIFICATION FACTORS BASED ON NCCI FORMULA AND NO CAPPING OF INDIVIDUAL AGENCY PREMIUMS**  
**(INCLUDES IMPACT OF PAYROLL GROWTH)**

Agency Code (1)	Agency Name (2)	FY 2017 Actual Premium (3)	Projected Premium		Percent Changes	
			Pay As You Go FY 2018 (4)	Pay As You Go FY 2019 (5)	FY 2017 to FY 2018 (6)	FY 2018 to FY 2019 (7)
100	Senate of Virginia	10,992	10,433	10,702	-5.1%	2.6%
101	Virginia House of Delegates	15,243	14,878	15,262	-2.4%	2.6%
103	Magistrate System	34,088	30,976	31,777	-9.1%	2.6%
107	Division of Legislative Services	6,234	5,617	5,763	-9.9%	2.6%
109	Division of Legislative Automated Systems	2,320	2,096	2,150	-9.7%	2.6%
110	Joint Legislative Audit and Review Commission	3,285	3,135	3,216	-4.5%	2.6%
111	Supreme Court of Virginia	40,767	18,831	19,318	-53.8%	2.6%
112	Judicial Inquiry and Review Commission	537	501	514	-6.7%	2.6%
113	Circuit Courts	31,375	37,208	38,170	18.6%	2.6%
114	General District Courts	61,049	58,564	60,078	-4.1%	2.6%
115	Juvenile and Domestic Relations District Courts	91,275	53,855	55,247	-41.0%	2.6%
116	Combined District Courts	14,558	13,704	14,058	-5.9%	2.6%
117	Virginia State Bar	10,270	9,864	10,119	-4.0%	2.6%
119	Lieutenant Governor	236	225	231	-4.6%	2.6%
121	Office of the Governor	3,764	3,789	3,887	0.7%	2.6%
122	Department of Planning and Budget	5,483	5,210	5,345	-5.0%	2.6%
123	Department of Military Affairs	354,589	450,227	461,864	27.0%	2.6%
125	Court of Appeals of Virginia	9,531	9,408	9,651	-1.3%	2.6%
127	Department of Emergency Management	16,495	21,662	22,222	31.3%	2.6%
129	Department of Human Resource Management	9,419	9,289	9,529	-1.4%	2.6%
132	Department of Elections	2,260	2,231	2,289	-1.3%	2.6%
133	Auditor of Public Accounts	9,207	8,522	8,742	-7.4%	2.6%
136	Virginia Information Technologies Agency	26,635	20,299	20,823	-23.8%	2.6%
140	Department of Criminal Justice Services	9,295	8,642	8,865	-7.0%	2.6%
141	Attorney General and Department of Law	33,295	36,051	36,982	8.3%	2.6%
146	The Science Museum of Virginia	25,704	14,696	15,076	-42.8%	2.6%
147	Office of the State Inspector General	3,759	3,915	4,341	4.2%	10.9%
148	Virginia Commission for the Arts	452	394	404	-12.8%	2.6%
151	Department of Accounts	13,444	12,360	12,679	-8.1%	2.6%
152	Department of the Treasury	9,925	8,590	8,812	-13.4%	2.6%
154	Department of Motor Vehicles	672,414	741,290	760,450	10.2%	2.6%
156	Department of State Police	6,605,199	6,250,200	6,411,748	-5.4%	2.6%
157	Compensation Board	1,393	1,332	1,367	-4.4%	2.6%
158	Virginia Retirement System	30,343	29,388	30,147	-3.1%	2.6%
160	Virginia Criminal Sentencing Commission	925	879	902	-5.0%	2.6%
161	Department of Taxation	70,114	68,994	70,778	-1.6%	2.6%
162	Department of Accounts Transfer Payments	140	145	161	3.5%	10.9%
165	Department of Housing and Community Development	10,097	8,458	8,677	-16.2%	2.6%

**COMMONWEALTH OF VIRGINIA  
SELF INSURANCE FUND**

Exhibit 1A

**WORKERS' COMPENSATION PREMIUM FOR FISCAL YEARS 2018 & 2019  
PERCENTAGE CHANGE FROM FY 2017 PREMIUM**

**EXPERIENCE MODIFICATION FACTORS BASED ON NCCI FORMULA AND NO CAPPING OF INDIVIDUAL AGENCY PREMIUMS  
(INCLUDES IMPACT OF PAYROLL GROWTH)**

Agency Code (1)	Agency Name (2)	FY 2017 Actual Premium (3)	Projected Premium		Percent Changes	
			Pay As You Go FY 2018 (4)	Pay As You Go FY 2019 (5)	FY 2017 to FY 2018 (6)	FY 2018 to FY 2019 (7)
166	Secretary of the Commonwealth	1,476	1,390	1,426	-5.9%	2.6%
171	State Corporation Commission	102,448	103,683	106,363	1.2%	2.6%
172	Virginia Lottery	43,752	52,103	53,449	19.1%	2.6%
174	Virginia College Savings Plan	9,263	8,903	9,133	-3.9%	2.6%
175	Virginia Office for Protection and Advocacy	0	0	0	N/A	N/A
180	Secretary of Administration	1,154	1,079	1,107	-6.5%	2.6%
181	Department of Labor and Industry	53,696	48,625	49,882	-9.4%	2.6%
182	Virginia Employment Commission	107,534	93,438	95,853	-13.1%	2.6%
183	Secretary of Natural Resources	656	618	634	-5.7%	2.6%
184	Secretary of Technology	490	441	453	-9.9%	2.6%
185	Secretary of Education	675	634	651	-6.0%	2.6%
186	Secretary of Transportation	908	844	866	-7.1%	2.6%
187	Secretary of Public Safety	1,053	972	997	-7.7%	2.6%
188	Secretary of Health and Human Resources	667	609	625	-8.8%	2.6%
190	Secretary of Finance	637	578	593	-9.2%	2.6%
191	Virginia Workers' Compensation Commission	88,244	97,314	99,830	10.3%	2.6%
192	Secretary of Commerce and Trade	577	550	564	-4.8%	2.6%
193	Secretary of Agriculture and Forestry	423	394	404	-7.0%	2.6%
194	Department of General Services	264,501	291,217	298,744	10.1%	2.6%
199	Department of Conservation and Recreation	761,488	785,134	805,427	3.1%	2.6%
200	Childrens Services Act	1,353	1,110	1,139	-17.9%	2.6%
201	Department of Education, Central Office Operations	29,006	29,643	30,409	2.2%	2.6%
202	The Library of Virginia	10,695	9,471	9,716	-11.4%	2.6%
203	Wilson Workforce and Rehabilitation Center	290,491	262,082	268,856	-9.8%	2.6%
204	The College of William and Mary In Virginia	612,697	667,561	684,815	9.0%	2.6%
207	University of Virginia	4,205,406	3,982,659	4,085,598	-5.3%	2.6%
208	Virginia Polytechnic Institute and State University	3,229,640	3,167,904	3,249,785	-1.9%	2.6%
209	University of Virginia Medical Center	7,037,168	7,091,233	7,274,520	0.8%	2.6%
211	Virginia Military Institute	332,203	282,285	289,581	-15.0%	2.6%
212	Virginia State University	214,869	194,482	199,509	-9.5%	2.6%
213	Norfolk State University	393,638	347,601	356,586	-11.7%	2.6%
214	Longwood University	277,182	326,297	334,731	17.7%	2.6%
215	University of Mary Washington	375,799	417,561	428,354	11.1%	2.6%
216	James Madison University	1,477,715	1,467,621	1,505,554	-0.7%	2.6%
217	Radford University	528,041	521,616	535,099	-1.2%	2.6%
218	Virginia School for the Deaf and the Blind	54,436	54,227	55,628	-0.4%	2.6%
221	Old Dominion University	966,749	1,010,406	1,036,522	4.5%	2.6%
222	Department of Professional and Occupational Regulation	13,616	12,736	13,065	-6.5%	2.6%

**COMMONWEALTH OF VIRGINIA  
SELF INSURANCE FUND**

Exhibit 1A

**WORKERS' COMPENSATION PREMIUM FOR FISCAL YEARS 2018 & 2019  
PERCENTAGE CHANGE FROM FY 2017 PREMIUM**

**EXPERIENCE MODIFICATION FACTORS BASED ON NCCI FORMULA AND NO CAPPING OF INDIVIDUAL AGENCY PREMIUMS  
(INCLUDES IMPACT OF PAYROLL GROWTH)**

Agency Code (1)	Agency Name (2)	FY 2017 Actual Premium (3)	Projected Premium		Percent Changes	
			Pay As You Go FY 2018 (4)	Pay As You Go FY 2019 (5)	FY 2017 to FY 2018 (6)	FY 2018 to FY 2019 (7)
223	Department of Health Professions	26,707	26,329	27,010	-1.4%	2.6%
226	Board of Accountancy	978	968	993	-1.0%	2.6%
229	VPI Cooperative Extension and Agricultural Experiment Station	205,564	201,489	206,697	-2.0%	2.6%
233	Board of Bar Examiners	1,056	965	990	-8.6%	2.6%
234	VSU Cooperative Extension and Agricultural Research Services	13,852	15,625	16,029	12.8%	2.6%
236	Virginia Commonwealth University	1,715,621	1,846,566	1,894,294	7.6%	2.6%
238	Virginia Museum of Fine Arts	124,673	138,261	141,835	10.9%	2.6%
239	Frontier Culture Museum of Virginia	6,719	6,286	6,448	-6.4%	2.6%
241	Richard Bland College	35,124	35,038	35,943	-0.2%	2.6%
242	Christopher Newport University	434,873	458,673	470,528	5.5%	2.6%
245	State Council of Higher Education for Virginia	4,180	4,248	4,357	1.6%	2.6%
246	University of Virginia's College at Wise	116,443	122,101	125,257	4.9%	2.6%
247	George Mason University	1,030,054	1,210,915	1,242,213	17.6%	2.6%
260	Virginia Community College System	2,314,201	2,566,895	2,633,241	10.9%	2.6%
262	Department of Rehabilitative Services	120,198	87,421	89,680	-27.3%	2.6%
263	Virginia Rehabilitation Center for the Blind and Vision Impaired	4,103	3,964	4,066	-3.4%	2.6%
268	Virginia Institute of Marine Science	147,612	206,819	212,165	40.1%	2.6%
301	Department of Agriculture and Consumer Services	127,639	134,547	138,025	5.4%	2.6%
307	Virginia Agricultural Council	33	13	13	-61.3%	2.6%
330	Virginia-Israel Advisory Board	217	181	186	-16.7%	2.6%
350	Department of Small Business and Supplier Diversity	3,194	2,775	2,846	-13.1%	2.6%
400	Jamestown 2007	0	161	206	N/A	27.6%
402	Marine Resources Commission	241,280	198,477	203,607	-17.7%	2.6%
403	Department of Game and Inland Fisheries	609,725	571,026	585,785	-6.3%	2.6%
405	Virginia Racing Commission	887	2,346	2,406	164.4%	2.6%
409	Department of Mines, Minerals and Energy	237,614	293,235	300,814	23.4%	2.6%
411	Department of Forestry	315,923	260,909	267,653	-17.4%	2.6%
413	Commission on the Virginia Alcohol Safety Action Program	1,305	2,958	3,034	126.6%	2.6%
417	Gunston Hall	2,675	2,803	2,875	4.8%	2.6%
423	Department of Historic Resources	9,461	9,744	9,996	3.0%	2.6%
425	Jamestown-Yorktown Foundation	121,542	107,746	110,531	-11.4%	2.6%
440	Department of Environmental Quality	362,281	401,199	411,568	10.7%	2.6%
454	Office of Commonwealth Preparedness	909	842	864	-7.4%	2.6%
501	Department of Transportation	13,150,941	12,106,403	12,419,317	-7.9%	2.6%
505	Department of Rail and Public Transportation	6,529	6,642	6,814	1.7%	2.6%
506	Motor Vehicle Dealer Board	3,352	4,877	5,003	45.5%	2.6%
601	Department of Health	1,292,929	1,599,769	1,641,118	23.7%	2.6%
602	Department of Medical Assistance Services	44,954	44,901	46,062	-0.1%	2.6%

**COMMONWEALTH OF VIRGINIA  
SELF INSURANCE FUND**

Exhibit 1A

**WORKERS' COMPENSATION PREMIUM FOR FISCAL YEARS 2018 & 2019  
PERCENTAGE CHANGE FROM FY 2017 PREMIUM**

**EXPERIENCE MODIFICATION FACTORS BASED ON NCCI FORMULA AND NO CAPPING OF INDIVIDUAL AGENCY PREMIUMS  
(INCLUDES IMPACT OF PAYROLL GROWTH)**

Agency Code (1)	Agency Name (2)	FY 2017 Actual Premium (3)	Projected Premium		Percent Changes	
			Pay As You Go FY 2018 (4)	Pay As You Go FY 2019 (5)	FY 2017 to FY 2018 (6)	FY 2018 to FY 2019 (7)
606	Virginia Board for People with Disabilities	782	807	828	3.2%	2.6%
702	Department for the Blind and Vision Impaired	101,986	82,658	84,795	-19.0%	2.6%
720	Department of Behavioral Health and Developmental Services	68,294	68,483	70,253	0.3%	2.6%
751	Department for the Deaf and Hard-of-Hearing	827	801	822	-3.1%	2.6%
765	Department of Social Services	223,898	202,363	207,594	-9.6%	2.6%
766	Virginia Parole Board	1,546	1,426	1,463	-7.8%	2.6%
777	Department of Juvenile Justice	2,722,339	2,908,304	2,983,475	6.8%	2.6%
778	Department of Forensic Science	211,438	195,213	200,259	-7.7%	2.6%
792	Mental Health Treatment Centers	8,329,358	8,612,975	8,835,594	3.4%	2.6%
793	Intellectual Disabilities Training Centers	3,850,889	3,216,402	3,299,537	-16.5%	2.6%
794	Virginia Center for Behavioral Rehabilitation	645,864	571,318	586,085	-11.5%	2.6%
799	Department of Corrections	9,030,579	9,238,206	9,476,986	2.3%	2.6%
820	Capitol Square Preservation Council	135	140	144	3.4%	2.6%
834	Virginia Freedom of Information Advisory Council	208	203	208	-2.5%	2.6%
839	Virginia Commission on Youth	401	324	332	-19.3%	2.6%
841	Department of Aviation	35,102	38,380	39,372	9.3%	2.6%
842	Chesapeake Bay Commission	99	93	96	-6.0%	2.6%
844	Joint Commission on Health Care	681	581	596	-14.7%	2.6%
847	Joint Commission on Technology and Science	149	102	105	-31.7%	2.6%
848	Indigent Defense Commission	43,683	48,936	50,201	12.0%	2.6%
859	Virginia Sesquicentennial of the American Civil War Commission	71	0	0	-100.0%	N/A
876	Virginia Conflict of Interest and Ethics Advisory Council	0	255	261	N/A	2.6%
912	Department of Veterans Services	526,904	669,319	686,619	27.0%	2.6%
937	Southern Virginia Higher Education Center	2,853	2,886	2,961	1.2%	2.6%
938	New College Institute	1,180	956	981	-19.0%	2.6%
942	Virginia Museum of Natural History	2,500	2,344	2,404	-6.2%	2.6%
948	Southwest Virginia Higher Education Center	8,456	6,800	6,976	-19.6%	2.6%
957	Commonwealth's Attorneys' Services Council	671	661	678	-1.6%	2.6%
960	Department of Fire Programs	134,512	111,939	114,832	-16.8%	2.6%
961	Division of Capitol Police	115,004	150,460	154,349	30.8%	2.6%
999	Department of Alcoholic Beverage Control	1,798,743	1,778,874	1,824,852	-1.1%	2.6%
	Statewide Total	80,430,952	79,907,205	81,972,941	-0.7%	2.6%

# COMMONWEALTH OF VIRGINIA

Exhibit 1B

## SELF INSURANCE FUND

### WORKERS' COMPENSATION PREMIUM FOR FISCAL YEARS 2018 & 2019

#### EXPERIENCE MODIFICATION FACTORS BASED ON NCCI FORMULA AND NO CAPPING OF INDIVIDUAL AGENCY PREMIUMS PAY-AS-YOU-GO RATE CHANGE FOR AGENCIES 147, 162 AND 400 SET EQUAL TO THE CHANGE OF OTHER AGENCIES

Agency Code	Agency Name	FY 2017 Actual Premium	FY 2017 Experience Modification Factor	Projected Premium - Pay As You Go FY 2018	FY 2018 Experience Modification Factor	FY 2018 to FY 2019 Pay as You Go Rate Change	Projected Premium - Pay As You Go FY 2019
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
100	Senate of Virginia	10,992	1.08	10,433	1.08	2.6%	10,702
101	Virginia House of Delegates	15,243	0.87	14,878	0.87	2.6%	15,262
103	Magistrate System	34,088	1.14	30,976	1.14	2.6%	31,777
107	Division of Legislative Services	6,234	0.92	5,617	0.92	2.6%	5,763
109	Division of Legislative Automated Systems	2,320	0.97	2,096	0.97	2.6%	2,150
110	Joint Legislative Audit and Review Commission	3,285	0.96	3,135	0.96	2.6%	3,216
111	Supreme Court of Virginia	40,767	0.83	18,831	0.83	2.6%	19,318
112	Judicial Inquiry and Review Commission	537	0.99	501	0.99	2.6%	514
113	Circuit Courts	31,375	0.97	37,208	0.97	2.6%	38,170
114	General District Courts	61,049	0.89	58,564	0.89	2.6%	60,078
115	Juvenile and Domestic Relations District Courts	91,275	1.09	53,855	1.09	2.6%	55,247
116	Combined District Courts	14,558	0.85	13,704	0.85	2.6%	14,058
117	Virginia State Bar	10,270	0.98	9,864	0.98	2.6%	10,119
119	Lieutenant Governor	236	1.00	225	1.00	2.6%	231
121	Office of the Governor	3,764	0.96	3,789	0.96	2.6%	3,887
122	Department of Planning and Budget	5,483	0.97	5,210	0.97	2.6%	5,345
123	Department of Military Affairs	354,589	1.33	450,227	1.33	2.6%	461,864
125	Court of Appeals of Virginia	9,531	1.16	9,408	1.16	2.6%	9,651
127	Department of Emergency Management	16,495	1.74	21,662	1.74	2.6%	22,222
129	Department of Human Resource Management	9,419	0.90	9,289	0.90	2.6%	9,529
132	Department of Elections	2,260	0.97	2,231	0.97	2.6%	2,289
133	Auditor of Public Accounts	9,207	1.48	8,522	1.48	2.6%	8,742
136	Virginia Information Technologies Agency	26,635	0.77	20,299	0.77	2.6%	20,823
140	Department of Criminal Justice Services	9,295	0.92	8,642	0.92	2.6%	8,865
141	Attorney General and Department of Law	33,295	0.86	36,051	0.86	2.6%	36,982
146	The Science Museum of Virginia	25,704	0.92	14,696	0.92	2.6%	15,076
147	Office of the State Inspector General	3,759	0.88	3,915	0.88	2.6%	4,017
148	Virginia Commission for the Arts	452	0.99	394	0.99	2.6%	404
151	Department of Accounts	13,444	0.87	12,360	0.87	2.6%	12,679
152	Department of the Treasury	9,925	0.91	8,590	0.91	2.6%	8,812
154	Department of Motor Vehicles	672,414	1.51	741,290	1.51	2.6%	760,450
156	Department of State Police	6,605,199	2.08	6,250,200	2.08	2.6%	6,411,748
157	Compensation Board	1,393	0.98	1,332	0.98	2.6%	1,367
158	Virginia Retirement System	30,343	0.77	29,388	0.77	2.6%	30,147
160	Virginia Criminal Sentencing Commission	925	0.99	879	0.99	2.6%	902
161	Department of Taxation	70,114	1.13	68,994	1.13	2.6%	70,778
162	Department of Accounts Transfer Payments	140	0.99	145	0.99	2.6%	149
165	Department of Housing and Community Development	10,097	0.89	8,458	0.89	2.6%	8,677
166	Secretary of the Commonwealth	1,476	0.98	1,390	0.98	2.6%	1,426
171	State Corporation Commission	102,448	0.75	103,683	0.75	2.6%	106,363
172	Virginia Lottery	43,752	1.94	52,103	1.94	2.6%	53,449
174	Virginia College Savings Plan	9,263	0.90	8,903	0.90	2.6%	9,133
175	Virginia Office for Protection and Advocacy	0	1.00	0	1.00	N/A	0

# COMMONWEALTH OF VIRGINIA

Exhibit 1B

## SELF INSURANCE FUND

### WORKERS' COMPENSATION PREMIUM FOR FISCAL YEARS 2018 & 2019

#### EXPERIENCE MODIFICATION FACTORS BASED ON NCCI FORMULA AND NO CAPPING OF INDIVIDUAL AGENCY PREMIUMS PAY-AS-YOU-GO RATE CHANGE FOR AGENCIES 147, 162 AND 400 SET EQUAL TO THE CHANGE OF OTHER AGENCIES

Agency Code	Agency Name	FY 2017 Actual Premium	FY 2017 Experience Modification Factor	Projected Premium - Pay As You Go FY 2018	FY 2018 Experience Modification Factor	FY 2018 to FY 2019 Pay as You Go Rate Change	Projected Premium - Pay As You Go FY 2019
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
180	Secretary of Administration	1,154	0.98	1,079	0.98	2.6%	1,107
181	Department of Labor and Industry	53,696	0.82	48,625	0.82	2.6%	49,882
182	Virginia Employment Commission	107,534	1.79	93,438	1.79	2.6%	95,853
183	Secretary of Natural Resources	656	0.99	618	0.99	2.6%	634
184	Secretary of Technology	490	0.99	441	0.99	2.6%	453
185	Secretary of Education	675	0.99	634	0.99	2.6%	651
186	Secretary of Transportation	908	0.99	844	0.99	2.6%	866
187	Secretary of Public Safety	1,053	0.99	972	0.99	2.6%	997
188	Secretary of Health and Human Resources	667	0.99	609	0.99	2.6%	625
190	Secretary of Finance	637	0.99	578	0.99	2.6%	593
191	Virginia Workers' Compensation Commission	88,244	1.07	97,314	1.07	2.6%	99,830
192	Secretary of Commerce and Trade	577	0.99	550	0.99	2.6%	564
193	Secretary of Agriculture and Forestry	423	1.00	394	1.00	2.6%	404
194	Department of General Services	264,501	0.86	291,217	0.86	2.6%	298,744
199	Department of Conservation and Recreation	761,488	1.12	785,134	1.12	2.6%	805,427
200	Childrens Services Act	1,353	0.99	1,110	0.99	2.6%	1,139
201	Department of Education, Central Office Operations	29,006	0.94	29,643	0.94	2.6%	30,409
202	The Library of Virginia	10,695	0.94	9,471	0.94	2.6%	9,716
203	Wilson Workforce and Rehabilitation Center	290,491	1.51	262,082	1.51	2.6%	268,856
204	The College of William and Mary In Virginia	612,697	0.69	667,561	0.69	2.6%	684,815
207	University of Virginia	4,205,406	1.17	3,982,659	1.17	2.6%	4,085,598
208	Virginia Polytechnic Institute and State University	3,229,640	0.88	3,167,904	0.88	2.6%	3,249,785
209	University of Virginia Medical Center	7,037,168	1.35	7,091,233	1.35	2.6%	7,274,520
211	Virginia Military Institute	332,203	1.15	282,285	1.15	2.6%	289,581
212	Virginia State University	214,869	0.84	194,482	0.84	2.6%	199,509
213	Norfolk State University	393,638	1.04	347,601	1.04	2.6%	356,586
214	Longwood University	277,182	0.91	326,297	0.91	2.6%	334,731
215	University of Mary Washington	375,799	1.26	417,561	1.26	2.6%	428,354
216	James Madison University	1,477,715	1.02	1,467,621	1.02	2.6%	1,505,554
217	Radford University	528,041	0.71	521,616	0.71	2.6%	535,099
218	Virginia School for the Deaf and the Blind	54,436	0.86	54,227	0.86	2.6%	55,628
221	Old Dominion University	966,749	0.84	1,010,406	0.84	2.6%	1,036,522
222	Department of Professional and Occupational Regulation	13,616	0.85	12,736	0.85	2.6%	13,065
223	Department of Health Professions	26,707	0.79	26,329	0.79	2.6%	27,010
226	Board of Accountancy	978	0.99	968	0.99	2.6%	993
229	VPI Cooperative Extension and Agricultural Experiment Station	205,564	0.56	201,489	0.56	2.6%	206,697
233	Board of Bar Examiners	1,056	0.99	965	0.99	2.6%	990
234	VSU Cooperative Extension and Agricultural Research Services	13,852	0.84	15,625	0.84	2.6%	16,029
236	Virginia Commonwealth University	1,715,621	0.75	1,846,566	0.75	2.6%	1,894,294
238	Virginia Museum of Fine Arts	124,673	0.83	138,261	0.83	2.6%	141,835
239	Frontier Culture Museum of Virginia	6,719	1.91	6,286	1.91	2.6%	6,448
241	Richard Bland College	35,124	0.73	35,038	0.73	2.6%	35,943
242	Christopher Newport University	434,873	0.77	458,673	0.77	2.6%	470,528

# COMMONWEALTH OF VIRGINIA

Exhibit 1B

## SELF INSURANCE FUND

### WORKERS' COMPENSATION PREMIUM FOR FISCAL YEARS 2018 & 2019

#### EXPERIENCE MODIFICATION FACTORS BASED ON NCCI FORMULA AND NO CAPPING OF INDIVIDUAL AGENCY PREMIUMS

#### PAY-AS-YOU-GO RATE CHANGE FOR AGENCIES 147, 162 AND 400 SET EQUAL TO THE CHANGE OF OTHER AGENCIES

Agency Code	Agency Name	FY 2017 Actual Premium	FY 2017 Experience Modification Factor	Projected Premium - Pay As You Go FY 2018	FY 2018 Experience Modification Factor	FY 2018 to FY 2019 Pay as You Go Rate Change	Projected Premium - Pay As You Go FY 2019
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
245	State Council of Higher Education for Virginia	4,180	0.95	4,248	0.95	2.6%	4,357
246	University of Virginia's College at Wise	116,443	0.94	122,101	0.94	2.6%	125,257
247	George Mason University	1,030,054	0.56	1,210,915	0.56	2.6%	1,242,213
260	Virginia Community College System	2,314,201	1.08	2,566,895	1.08	2.6%	2,633,241
262	Department of Rehabilitative Services	120,198	0.90	87,421	0.90	2.6%	89,680
263	Virginia Rehabilitation Center for the Blind and Vision Impaired	4,103	1.17	3,964	1.17	2.6%	4,066
268	Virginia Institute of Marine Science	147,612	1.01	206,819	1.01	2.6%	212,165
301	Department of Agriculture and Consumer Services	127,639	1.82	134,547	1.82	2.6%	138,025
307	Virginia Agricultural Council	33	1.00	13	1.00	2.6%	13
330	Virginia-Israel Advisory Board	217	1.23	181	1.23	2.6%	186
350	Department of Small Business and Supplier Diversity	3,194	0.95	2,775	0.95	2.6%	2,846
400	Jamestown 2007	0	1.00	161	1.00	2.6%	165
402	Marine Resources Commission	241,280	1.48	198,477	1.48	2.6%	203,607
403	Department of Game and Inland Fisheries	609,725	1.78	571,026	1.78	2.6%	585,785
405	Virginia Racing Commission	887	0.96	2,346	0.96	2.6%	2,406
409	Department of Mines, Minerals and Energy	237,614	0.81	293,235	0.81	2.6%	300,814
411	Department of Forestry	315,923	1.03	260,909	1.03	2.6%	267,653
413	Commission on the Virginia Alcohol Safety Action Program	1,305	0.98	2,958	0.98	2.6%	3,034
417	Gunston Hall	2,675	0.97	2,803	0.97	2.6%	2,875
423	Department of Historic Resources	9,461	0.87	9,744	0.87	2.6%	9,996
425	Jamestown-Yorktown Foundation	121,542	1.03	107,746	1.03	2.6%	110,531
440	Department of Environmental Quality	362,281	0.62	401,199	0.62	2.6%	411,568
454	Office of Commonwealth Preparedness	909	0.98	842	0.98	2.6%	864
501	Department of Transportation	13,150,941	0.70	12,106,403	0.70	2.6%	12,419,317
505	Department of Rail and Public Transportation	6,529	0.91	6,642	0.91	2.6%	6,814
506	Motor Vehicle Dealer Board	3,352	0.95	4,877	0.95	2.6%	5,003
601	Department of Health	1,292,929	0.78	1,599,769	0.78	2.6%	1,641,118
602	Department of Medical Assistance Services	44,954	1.05	44,901	1.05	2.6%	46,062
606	Virginia Board for People with Disabilities	782	0.99	807	0.99	2.6%	828
702	Department for the Blind and Vision Impaired	101,986	1.10	82,658	1.10	2.6%	84,795
720	Department of Behavioral Health and Developmental Services	68,294	1.73	68,483	1.73	2.6%	70,253
751	Department for the Deaf and Hard-of-Hearing	827	0.99	801	0.99	2.6%	822
765	Department of Social Services	223,898	1.50	202,363	1.50	2.6%	207,594
766	Virginia Parole Board	1,546	0.98	1,426	0.98	2.6%	1,463
777	Department of Juvenile Justice	2,722,339	2.09	2,908,304	2.09	2.6%	2,983,475
778	Department of Forensic Science	211,438	0.96	195,213	0.96	2.6%	200,259
792	Mental Health Treatment Centers	8,329,358	2.02	8,612,975	2.02	2.6%	8,835,594
793	Intellectual Disabilities Training Centers	3,850,889	1.18	3,216,402	1.18	2.6%	3,299,537
794	Virginia Center for Behavioral Rehabilitation	645,864	1.05	571,318	1.05	2.6%	586,085
799	Department of Corrections	9,030,579	1.06	9,238,206	1.06	2.6%	9,476,986
820	Capitol Square Preservation Council	135	1.00	140	1.00	2.6%	144
834	Virginia Freedom of Information Advisory Council	208	1.00	203	1.00	2.6%	208
839	Virginia Commission on Youth	401	0.99	324	0.99	2.6%	332



# COMMONWEALTH OF VIRGINIA

Exhibit 1B

## SELF INSURANCE FUND

### WORKERS' COMPENSATION PREMIUM FOR FISCAL YEARS 2018 & 2019

#### EXPERIENCE MODIFICATION FACTORS BASED ON NCCI FORMULA AND NO CAPPING OF INDIVIDUAL AGENCY PREMIUMS

#### PAY-AS-YOU-GO RATE CHANGE FOR AGENCIES 147, 162 AND 400 SET EQUAL TO THE CHANGE OF OTHER AGENCIES

Agency Code (1)	Agency Name (2)	FY 2017 Actual Premium (3)	FY 2017 Experience Modification Factor (4)	Projected Premium - Pay As You Go FY 2018 (5)	FY 2018 Experience Modification Factor (6)	FY 2018 to FY 2019 Pay as You Go Rate Change (7)	Projected Premium - Pay As You Go FY 2019 (8)
841	Department of Aviation	35,102	1.23	38,380	1.23	2.6%	39,372
842	Chesapeake Bay Commission	99	1.00	93	1.00	2.6%	96
844	Joint Commission on Health Care	681	0.99	581	0.99	2.6%	596
847	Joint Commission on Technology and Science	149	1.00	102	1.00	2.6%	105
848	Indigent Defense Commission	43,683	1.19	48,936	1.19	2.6%	50,201
859	Virginia Sesquicentennial of the American Civil War Commission	71	1.00	0	1.00	N/A	0
876	Virginia Conflict of Interest and Ethics Advisory Council	0	0.92	255	0.92	2.6%	261
912	Department of Veterans Services	526,904	1.79	669,319	1.79	2.6%	686,619
937	Southern Virginia Higher Education Center	2,853	0.97	2,886	0.97	2.6%	2,961
938	New College Institute	1,180	0.99	956	0.99	2.6%	981
942	Virginia Museum of Natural History	2,500	0.98	2,344	0.98	2.6%	2,404
948	Southwest Virginia Higher Education Center	8,456	0.89	6,800	0.89	2.6%	6,976
957	Commonwealth's Attorneys' Services Council	671	0.99	661	0.99	2.6%	678
960	Department of Fire Programs	134,512	1.01	111,939	1.01	2.6%	114,832
961	Division of Capitol Police	115,004	1.35	150,460	1.35	2.6%	154,349
999	Department of Alcoholic Beverage Control	1,798,743	1.37	1,778,874	1.37	2.6%	1,824,852
Statewide Total		80,430,952		79,907,205			81,972,563

Note: At the direction of DHRM/WCS, the pay-as-you-go rate change for agencies 147, 162, and 400 was set equal to the change for all other agencies.

**COMMONWEALTH OF VIRGINIA**  
**SELF INSURANCE FUND**  
**WORKERS' COMPENSATION PREMIUM FOR FISCAL YEAR 2018**  
**BASED ON LOSSES FROM OLIVER WYMAN'S REPORT AS OF 6/30/16**  
**EXPERIENCE MODIFICATION FACTOR BASED ON NCCI FORMULA**

Agency Code	Agency Name	Fiscal Year 2018 Premium Based on Oliver Wyman's June 30, 2016 Report										
		2013-2015 Estimated Ultimate Incurred Losses (3)	2013-2015 Actual Premium (4)	2013-2015 Estimated Ultimate Loss Ratio (5) = (3)/(4)	FY 2018 Manual Premium (Incl. Expenses) (6)	Experience Modification Factor (7)	FY 2018 Estimated Commercial Premium (8) = (6)x(7)	Adjusted FY 2018 Estimated Commercial Premium (9)	Indicated Undiscounted Actuarial Premium (10)	Pay As You Go (11)	Pay As You Go Plus (12)	
100	Senate of Virginia	20,369	30,586	66.6%	8,447	1.08	9,122	9,487	14,820	10,433	16,265	
101	Virginia House of Delegates	25,868	47,883	54.0%	14,953	0.87	13,009	13,530	21,134	14,878	23,195	
103	Magistrate System	83,561	135,746	61.6%	23,759	1.14	27,086	28,169	44,001	30,976	48,292	
107	Division of Legislative Services	8,513	18,249	46.6%	5,339	0.92	4,912	5,108	7,979	5,617	8,758	
109	Division of Legislative Automated Systems	2,975	6,039	49.3%	1,890	0.97	1,833	1,906	2,978	2,096	3,268	
110	Joint Legislative Audit and Review Commission	4,396	10,314	42.6%	2,856	0.96	2,742	2,851	4,454	3,135	4,888	
111	Supreme Court of Virginia	33,678	71,667	47.0%	19,839	0.83	16,466	17,125	26,750	18,831	29,358	
112	Judicial Inquiry and Review Commission	695	1,545	45.0%	443	0.99	438	456	712	501	781	
113	Circuit Courts	65,558	111,461	58.8%	33,541	0.97	32,535	33,836	52,854	37,208	58,008	
114	General District Courts	111,247	205,277	54.2%	57,538	0.89	51,209	53,257	83,190	58,564	91,303	
115	Juvenile and Domestic Relations District Courts	109,775	151,126	72.6%	43,203	1.09	47,091	48,975	76,501	53,855	83,961	
116	Combined District Courts	24,065	51,931	46.3%	14,098	0.85	11,983	12,462	19,467	13,704	21,365	
117	Virginia State Bar	16,997	32,095	53.0%	8,801	0.98	8,625	8,970	14,012	9,864	15,378	
119	Lieutenant Governor	298	882	33.8%	197	1.00	197	205	319	225	351	
121	Office of the Governor	5,812	15,254	38.1%	3,451	0.96	3,313	3,446	5,383	3,789	5,908	
122	Department of Planning and Budget	8,514	17,762	47.9%	4,696	0.97	4,566	4,738	7,401	5,210	8,122	
123	Department of Military Affairs	1,094,328	893,425	122.5%	296,002	1.33	393,683	409,428	639,548	450,227	701,914	
125	Court of Appeals of Virginia	19,374	25,616	75.6%	7,092	1.16	8,226	8,555	13,364	9,408	14,667	
127	Department of Emergency Management	81,168	47,559	170.7%	10,886	1.74	18,942	19,699	30,771	21,662	33,772	
129	Department of Human Resource Management	13,901	42,069	33.0%	9,025	0.90	8,123	8,447	13,195	9,289	14,482	
132	Department of Elections	3,072	6,837	44.9%	2,012	0.97	1,951	2,029	3,170	2,231	3,479	
133	Auditor of Public Accounts	26,073	16,963	153.7%	5,035	1.48	7,452	7,750	12,106	8,522	13,286	
136	Virginia Information Technologies Agency	44,991	96,956	46.4%	23,051	0.77	17,749	18,459	28,834	20,299	31,646	
140	Department of Criminal Justice Services	14,938	33,080	45.2%	8,214	0.92	7,556	7,859	12,276	8,642	13,473	
141	Attorney General and Department of Law	59,057	99,672	59.3%	36,655	0.86	31,523	32,784	51,210	36,051	56,204	
146	The Science Museum of Virginia	29,534	65,354	45.2%	13,968	0.92	12,850	13,364	20,876	14,696	22,912	
147	Office of the State Inspector General	14,105	10,063	140.2%	10,330	0.88	9,090	3,561	5,562	3,915	6,104	
148	Virginia Commission for the Arts	555	1,271	43.6%	348	0.99	344	358	559	394	614	
151	Department of Accounts	18,543	32,577	56.9%	12,422	0.87	10,807	11,240	17,557	12,360	19,269	
152	Department of the Treasury	13,513	32,007	42.2%	8,254	0.91	7,511	7,812	12,203	8,590	13,392	
154	Department of Motor Vehicles	2,664,154	1,758,037	151.5%	429,266	1.51	648,192	674,115	1,053,004	741,290	1,155,689	
156	Department of State Police	18,747,416	15,159,072	123.7%	2,627,520	2.08	5,465,242	5,683,815	8,878,421	6,250,200	9,744,208	
157	Compensation Board	1,815	4,772	38.0%	1,189	0.98	1,165	1,212	1,893	1,332	2,077	
158	Virginia Retirement System	51,893	111,021	46.7%	33,373	0.77	25,697	26,725	41,745	29,388	45,816	
160	Virginia Criminal Sentencing Commission	1,172	2,914	40.2%	777	0.99	769	800	1,249	879	1,371	
161	Department of Taxation	120,307	210,350	57.2%	53,389	1.13	60,329	62,742	98,007	68,994	107,564	
162	Department of Accounts Transfer Payments	507	131	386.5%	340	0.99	337	132	206	145	226	
165	Department of Housing and Community Development	13,587	31,131	43.6%	8,310	0.89	7,396	7,692	12,015	8,458	13,186	
166	Secretary of the Commonwealth	1,906	4,958	38.4%	1,240	0.98	1,215	1,264	1,974	1,390	2,167	
171	State Corporation Commission	219,828	225,141	97.6%	120,882	0.75	90,661	94,287	147,282	103,683	161,644	
172	Virginia Lottery	335,875	91,999	365.1%	23,484	1.94	45,559	47,381	74,012	52,103	81,229	
174	Virginia College Savings Plan	12,830	28,012	45.8%	8,649	0.90	7,785	8,096	12,646	8,903	13,879	
175	Virginia Office for Protection and Advocacy	0	5,810	0.0%	0	1.00	0	0	0	0	0	
180	Secretary of Administration	1,474	3,528	41.8%	962	0.98	943	981	1,532	1,079	1,682	

**COMMONWEALTH OF VIRGINIA**  
**SELF INSURANCE FUND**  
**WORKERS' COMPENSATION PREMIUM FOR FISCAL YEAR 2018**  
**BASED ON LOSSES FROM OLIVER WYMAN'S REPORT AS OF 6/30/16**

**EXPERIENCE MODIFICATION FACTOR BASED ON NCCI FORMULA**

Fiscal Year 2018 Premium Based on Oliver Wyman's June 30, 2016 Report											
Agency Code	Agency Name	2013-2015	2013-2015	2013-2015	Experience Modification Factor	FY 2018	FY 2018	Adjusted	Indicated Undiscounted Actuarial Premium	Pay As You Go	Pay As You Go Plus
		Estimated Ultimate Incurred Losses	Actual Premium	Estimated Ultimate Loss Ratio		Manual Premium (Incl. Expenses)	Estimated Commercial Premium	Estimated Commercial Premium			
(1)	(2)	(3)	(4)	(5) = (3)/(4)	(6)	(7)	(8) = (6)x(7)	(9)	(10)	(11)	(12)
181	Department of Labor and Industry	81,869	108,724	75.3%	51,852	0.82	42,519	44,219	69,072	48,625	75,808
182	Virginia Employment Commission	304,689	342,691	88.9%	45,644	1.79	81,703	84,970	132,728	93,438	145,671
183	Secretary of Natural Resources	773	2,129	36.3%	546	0.99	541	562	878	618	964
184	Secretary of Technology	596	2,001	29.8%	390	0.99	386	401	627	441	688
185	Secretary of Education	850	1,774	47.9%	560	0.99	555	577	901	634	989
186	Secretary of Transportation	1,134	2,233	50.8%	745	0.99	738	767	1,199	844	1,316
187	Secretary of Public Safety	1,186	1,985	59.7%	858	0.99	850	884	1,380	972	1,515
188	Secretary of Health and Human Resources	872	1,998	43.6%	538	0.99	532	554	865	609	949
190	Secretary of Finance	746	1,642	45.4%	511	0.99	506	526	822	578	902
191	Virginia Workers' Compensation Commission	712,203	266,121	267.6%	79,526	1.07	85,093	88,496	138,235	97,314	151,715
192	Secretary of Commerce and Trade	695	1,948	35.7%	486	0.99	481	500	781	550	857
193	Secretary of Agriculture and Forestry	494	929	53.2%	344	1.00	344	358	559	394	614
194	Department of General Services	743,805	1,050,836	70.8%	296,097	0.86	254,643	264,827	413,674	291,217	454,014
199	Department of Conservation and Recreation	2,326,571	1,924,622	120.9%	612,973	1.12	686,529	713,986	1,115,284	785,134	1,224,042
200	Childrens Services Act	1,077	0	N/A	981	0.99	971	1,010	1,577	1,110	1,731
201	Department of Education, Central Office Operations	50,843	118,342	43.0%	27,575	0.94	25,920	26,957	42,108	29,643	46,215
202	The Library of Virginia	17,543	49,055	35.8%	8,810	0.94	8,281	8,613	13,453	9,471	14,765
203	Wilson Workforce and Rehabilitation Center	5,437,327	710,365	765.4%	151,766	1.51	229,167	238,333	372,288	262,082	408,592
204	The College of William and Mary In Virginia	2,095,360	2,012,109	104.1%	845,974	0.69	583,722	607,067	948,271	667,561	1,040,743
207	University of Virginia	14,592,576	8,545,214	170.8%	2,976,478	1.17	3,482,479	3,621,755	5,657,374	3,982,659	6,209,058
208	Virginia Polytechnic Institute and State University	14,343,412	10,013,490	143.2%	3,147,783	0.88	2,770,049	2,880,833	4,500,014	3,167,904	4,938,836
209	University of Virginia Medical Center	22,526,538	13,562,693	166.1%	4,593,074	1.35	6,200,650	6,448,635	10,073,110	7,091,233	11,055,398
211	Virginia Military Institute	661,285	594,052	111.3%	214,637	1.15	246,833	256,704	400,986	282,285	440,088
212	Virginia State University	666,353	655,102	101.7%	202,449	0.84	170,058	176,859	276,263	194,482	303,203
213	Norfolk State University	1,194,087	1,093,461	109.2%	292,256	1.04	303,946	316,102	493,768	347,601	541,918
214	Longwood University	1,226,415	638,697	192.0%	313,536	0.91	285,318	296,729	463,506	326,297	508,705
215	University of Mary Washington	1,307,388	761,465	171.7%	289,778	1.26	365,120	379,722	593,146	417,561	650,988
216	James Madison University	5,731,705	2,726,299	210.2%	1,258,140	1.02	1,283,303	1,334,627	2,084,758	1,467,621	2,288,055
217	Radford University	1,771,296	1,510,870	117.2%	642,404	0.71	456,107	474,348	740,957	521,616	813,212
218	Virginia School for the Deaf and the Blind	113,623	239,933	47.4%	55,135	0.86	47,416	49,313	77,029	54,227	84,540
221	Old Dominion University	3,460,921	2,116,430	163.5%	1,051,797	0.84	883,510	918,844	1,435,284	1,010,406	1,575,246
222	Department of Professional and Occupational Regulation	20,875	49,507	42.2%	13,101	0.85	11,136	11,582	18,091	12,736	19,855
223	Department of Health Professions	44,882	83,390	53.8%	29,143	0.79	23,023	23,943	37,401	26,329	41,048
226	Board of Accountancy	1,210	2,065	58.6%	855	0.99	847	880	1,375	968	1,509
229	VPI Cooperative Extension and Agricultural Experiment S	527,779	0	N/A	314,614	0.56	176,184	183,230	286,215	201,489	314,126
233	Board of Bar Examiners	1,340	3,152	42.5%	853	0.99	844	878	1,371	965	1,505
234	VSU Cooperative Extension and Agricultural Research S	28,327	45,986	61.6%	16,265	0.84	13,663	14,209	22,195	15,625	24,360
236	Virginia Commonwealth University	6,569,308	4,572,344	143.7%	2,152,876	0.75	1,614,657	1,679,233	2,623,051	1,846,566	2,878,840
238	Virginia Museum of Fine Arts	256,954	287,216	89.5%	145,659	0.83	120,897	125,732	196,401	138,261	215,553
239	Frontier Culture Museum of Virginia	267,356	13,691	1952.7%	2,878	1.91	5,497	5,716	8,929	6,286	9,800
241	Richard Bland College	70,387	0	N/A	41,969	0.73	30,637	31,863	49,771	35,038	54,624
242	Christopher Newport University	1,378,332	965,550	142.8%	520,868	0.77	401,068	417,108	651,545	458,673	715,081
245	State Council of Higher Education for Virginia	5,582	15,070	37.0%	3,910	0.95	3,714	3,863	6,034	4,248	6,622
246	University of Virginia's College at Wise	252,011	273,722	92.1%	113,581	0.94	106,766	111,036	173,444	122,101	190,358
247	George Mason University	4,265,652	3,912,095	109.0%	1,890,780	0.56	1,058,837	1,101,183	1,720,107	1,210,915	1,887,845

**COMMONWEALTH OF VIRGINIA  
SELF INSURANCE FUND  
WORKERS' COMPENSATION PREMIUM FOR FISCAL YEAR 2018  
BASED ON LOSSES FROM OLIVER WYMAN'S REPORT AS OF 6/30/16**

**EXPERIENCE MODIFICATION FACTOR BASED ON NCCI FORMULA**

Agency Code	Agency Name	Fiscal Year 2018 Premium Based on Oliver Wyman's June 30, 2016 Report									
		2013-2015 Estimated Ultimate Incurred Losses	2013-2015 Actual Premium	2013-2015 Estimated Ultimate Loss Ratio	FY 2018 Manual Premium (Incl. Expenses)	Experience Modification Factor	FY 2018 Estimated Commercial Premium	Adjusted FY 2018 Estimated Commercial Premium	Indicated Undiscounted Actuarial Premium	Pay As You Go	Pay As You Go Plus
(1)	(2)	(3)	(4)	(5) = (3)/(4)	(6)	(7)	(8) = (6)x(7)	(9)	(10)	(11)	(12)
260	Virginia Community College System	10,861,770	5,641,919	192.5%	2,078,260	1.08	2,244,520	2,334,286	3,646,279	2,566,895	4,001,849
262	Department of Rehabilitative Services	171,095	357,445	47.9%	84,935	0.90	76,442	79,499	124,181	87,421	136,291
263	Virginia Rehabilitation Center for the Blind and Vision Imp	13,353	20,028	66.7%	2,962	1.17	3,466	3,604	5,630	3,964	6,179
268	Virginia Institute of Marine Science	395,742	553,906	71.4%	179,054	1.01	180,845	188,077	293,787	206,819	322,436
301	Department of Agriculture and Consumer Services	3,899,792	338,600	1151.7%	64,642	1.82	117,649	122,354	191,124	134,547	209,762
307	Virginia Agricultural Council	44	115	37.9%	11	1.00	11	12	18	13	20
330	Virginia-Israel Advisory Board	5,870	129	4538.8%	129	1.23	158	165	257	181	282
350	Department of Small Business and Supplier Diversity	4,489	16,568	27.1%	2,554	0.95	2,426	2,523	3,942	2,775	4,326
400	Jamestown 2007	0	0	N/A	663	1.00	663	147	229	161	251
402	Marine Resources Commission	1,285,722	409,261	314.2%	117,264	1.48	173,551	180,492	281,938	198,477	309,431
403	Department of Game and Inland Fisheries	2,327,279	1,614,636	144.1%	280,512	1.78	499,311	519,280	811,143	571,026	890,242
405	Virginia Racing Commission	4,541	5,215	87.1%	2,137	0.96	2,051	2,133	3,332	2,346	3,657
409	Department of Mines, Minerals and Energy	813,659	703,337	115.7%	316,552	0.81	256,407	266,662	416,540	293,235	457,159
411	Department of Forestry	665,230	1,150,128	57.8%	221,497	1.03	228,142	237,266	370,622	260,909	406,763
413	Commission on the Virginia Alcohol Safety Action Progra	3,341	1,759	190.0%	2,639	0.98	2,587	2,690	4,202	2,958	4,612
417	Gunston Hall	3,840	5,931	64.7%	2,527	0.97	2,451	2,549	3,981	2,803	4,370
423	Department of Historic Resources	15,381	27,611	55.7%	9,794	0.87	8,521	8,861	13,842	9,744	15,192
425	Jamestown-Yorktown Foundation	233,743	397,321	58.8%	91,470	1.03	94,214	97,982	153,054	107,746	167,979
440	Department of Environmental Quality	1,031,480	697,015	148.0%	565,826	0.62	350,812	364,842	569,903	401,199	625,478
454	Office of Commonwealth Preparedness	1,314	3,509	37.5%	751	0.98	736	766	1,196	842	1,312
501	Department of Transportation	38,206,328	39,379,821	97.0%	15,122,813	0.70	10,585,969	11,009,337	17,197,170	12,106,403	18,874,165
505	Department of Rail and Public Transportation	10,111	19,550	51.7%	6,382	0.91	5,808	6,040	9,435	6,642	10,355
506	Motor Vehicle Dealer Board	5,587	10,039	55.7%	4,489	0.95	4,264	4,435	6,927	4,877	7,603
601	Department of Health	4,727,616	3,406,119	138.8%	1,793,404	0.78	1,398,855	1,454,800	2,272,475	1,599,769	2,494,077
602	Department of Medical Assistance Services	103,117	106,572	96.8%	37,392	1.05	39,262	40,832	63,782	44,901	70,002
606	Virginia Board for People with Disabilities	1,094	2,983	36.7%	712	0.99	705	734	1,146	807	1,258
702	Department for the Blind and Vision Impaired	196,953	348,977	56.4%	65,707	1.10	72,277	75,168	117,416	82,658	128,866
720	Department of Behavioral Health and Developmental Ser	192,588	42,271,080	0.5%	34,614	1.73	59,882	62,277	97,280	68,483	106,767
751	Department for the Deaf and Hard-of-Hearing	1,079	2,585	41.7%	708	0.99	700	728	1,138	801	1,249
765	Department of Social Services	1,475,167	487,654	302.5%	117,966	1.50	176,949	184,025	287,457	202,363	315,489
766	Virginia Parole Board	2,012	3,294	61.1%	1,272	0.98	1,247	1,297	2,026	1,426	2,223
777	Department of Juvenile Justice	7,244,226	10,590,584	68.4%	1,216,772	2.09	2,543,053	2,644,758	4,131,252	2,908,304	4,534,114
778	Department of Forensic Science	627,704	313,063	200.5%	177,809	0.96	170,697	177,523	277,301	195,213	304,342
792	Mental Health Treatment Centers	23,527,658	0	N/A	3,728,355	2.02	7,531,278	7,832,479	12,234,748	8,612,975	13,427,829
793	Intellectual Disabilities Training Centers	15,267,354	0	N/A	2,383,438	1.18	2,812,457	2,924,936	4,568,906	3,216,402	5,014,446
794	Virginia Center for Behavioral Rehabilitation	1,849,041	538,171	343.6%	475,778	1.05	499,567	519,546	811,559	571,318	890,699
799	Department of Corrections	28,897,001	30,867,144	93.6%	7,620,742	1.06	8,077,987	8,401,052	13,122,890	9,238,206	14,402,579
820	Capitol Square Preservation Council	141	294	47.9%	122	1.00	122	127	199	140	218
834	Virginia Freedom of Information Advisory Council	249	669	37.2%	177	1.00	177	184	288	203	316
839	Virginia Commission on Youth	477	995	47.9%	286	0.99	283	294	460	324	505
841	Department of Aviation	197,109	88,914	221.7%	27,285	1.23	33,560	34,902	54,519	38,380	59,836
842	Chesapeake Bay Commission	126	88	142.0%	82	1.00	82	85	133	93	145
844	Joint Commission on Health Care	879	2,192	40.1%	513	0.99	508	528	825	581	905
847	Joint Commission on Technology and Science	191	423	45.2%	89	1.00	89	93	145	102	159
848	Indigent Defense Commission	128,306	153,110	83.8%	35,958	1.19	42,790	44,501	69,513	48,936	76,292
859	Virginia Sesquicentennial of the American Civil War Com	89	355	25.0%	0	1.00	0	0	0	0	0
876	Virginia Conflict of Interest and Ethics Advisory Council	0	0	N/A	242	0.92	223	232	362	255	397
912	Department of Veterans Services	1,572,144	1,281,930	122.6%	326,961	1.79	585,260	608,666	950,769	669,319	1,043,484
937	Southern Virginia Higher Education Center	4,489	6,904	65.0%	2,602	0.97	2,524	2,625	4,100	2,886	4,500

**COMMONWEALTH OF VIRGINIA  
 SELF INSURANCE FUND  
 WORKERS' COMPENSATION PREMIUM FOR FISCAL YEAR 2018  
 BASED ON LOSSES FROM OLIVER WYMAN'S REPORT AS OF 6/30/16**

**EXPERIENCE MODIFICATION FACTOR BASED ON NCCI FORMULA**

Agency Code	Agency Name	Fiscal Year 2018 Premium Based on Oliver Wyman's June 30, 2016 Report									
		2013-2015 Estimated Ultimate Incurred Losses	2013-2015 Actual Premium	2013-2015 Estimated Ultimate Loss Ratio	FY 2018 Manual Premium (Incl. Expenses)	Experience Modification Factor	FY 2018 Estimated Commercial Premium	Adjusted FY 2018 Estimated Commercial Premium	Indicated Undiscounted Actuarial Premium	Pay As You Go	Pay As You Go Plus
(1)	(2)	(3)	(4)	(5) = (3)/(4)	(6)	(7)	(8) = (6)x(7)	(9)	(10)	(11)	(12)
938	New College Institute	1,486	3,176	46.8%	845	0.99	836	870	1,359	956	1,491
942	Virginia Museum of Natural History	4,666	8,993	51.9%	2,091	0.98	2,049	2,131	3,329	2,344	3,654
948	Southwest Virginia Higher Education Center	13,479	22,119	60.9%	6,681	0.89	5,946	6,184	9,659	6,800	10,601
957	Commonwealth's Attorneys' Services Council	846	2,078	40.7%	584	0.99	578	601	939	661	1,030
960	Department of Fire Programs	225,029	314,629	71.5%	96,912	1.01	97,881	101,795	159,010	111,939	174,516
961	Division of Capitol Police	361,295	210,094	172.0%	97,455	1.35	131,564	136,826	213,729	150,460	234,571
999	Department of Alcoholic Beverage Control	8,082,425	3,667,851	220.4%	1,135,377	1.37	1,555,466	1,617,674	2,526,894	1,778,874	2,773,306
	Total	271,858,210	225,286,023	120.7%	64,953,517	1.12	69,878,117	72,666,119	113,508,344	79,907,205	124,577,200
	Target						72,747,940				

Note: Losses are gross of recoveries.

**COMMONWEALTH OF VIRGINIA**  
**SELF INSURANCE FUND**  
**WORKERS' COMPENSATION PREMIUM FOR FISCAL YEAR 2019**  
**BASED ON LOSSES FROM OLIVER WYMAN'S REPORT AS OF 6/30/16**

**EXPERIENCE MODIFICATION FACTOR BASED ON NCCI FORMULA**

		Fiscal Year 2019 Premium Based on Oliver Wyman's June 30, 2016 Report										
Agency Code	Agency Name	2013-2015	2013-2015	2013-2015	FY 2019	Experience	FY 2019	Adjusted	Indicated		Pay As	
		Estimated Ultimate Incurred Losses	Actual Premium	Estimated Ultimate Loss Ratio	Manual Premium (Incl. Expenses)	Modification Factor	Estimated Commercial Premium	Estimated Commercial Premium	Actuarial Premium	Pay As You Go	Pay As You Go Plus	
(1)	(2)	(3)	(4)	(5) = (3)/(4)	(6)	(7)	(8) = (6)x(7)	(9)	(10)	(11)	(12)	
100	Senate of Virginia	20,369	30,586	66.6%	8,447	1.08	9,122	9,474	14,850	10,702	10,869	
101	Virginia House of Delegates	25,868	47,883	54.0%	14,953	0.87	13,009	13,511	21,178	15,262	15,500	
103	Magistrate System	83,561	135,746	61.6%	23,759	1.14	27,086	28,130	44,093	31,777	32,271	
107	Division of Legislative Services	8,513	18,249	46.6%	5,339	0.92	4,912	5,101	7,996	5,763	5,852	
109	Division of Legislative Automated Systems	2,975	6,039	49.3%	1,890	0.97	1,833	1,904	2,984	2,150	2,184	
110	Joint Legislative Audit and Review Commission	4,396	10,314	42.6%	2,856	0.96	2,742	2,847	4,463	3,216	3,266	
111	Supreme Court of Virginia	33,678	71,667	47.0%	19,839	0.83	16,466	17,101	26,805	19,318	19,618	
112	Judicial Inquiry and Review Commission	695	1,545	45.0%	443	0.99	438	455	713	514	522	
113	Circuit Courts	65,558	111,461	58.8%	33,541	0.97	32,535	33,790	52,964	38,170	38,763	
114	General District Courts	111,247	205,277	54.2%	57,538	0.89	51,209	53,184	83,363	60,078	61,012	
115	Juvenile and Domestic Relations District Courts	109,775	151,126	72.6%	43,203	1.09	47,091	48,908	76,660	55,247	56,106	
116	Combined District Courts	24,065	51,931	46.3%	14,098	0.85	11,983	12,445	19,507	14,058	14,277	
117	Virginia State Bar	16,997	32,095	53.0%	8,801	0.98	8,625	8,958	14,041	10,119	10,276	
119	Lieutenant Governor	298	882	33.8%	197	1.00	197	204	320	231	234	
121	Office of the Governor	5,812	15,254	38.1%	3,451	0.96	3,313	3,441	5,394	3,887	3,948	
122	Department of Planning and Budget	8,514	17,762	47.9%	4,696	0.97	4,556	4,731	7,416	5,345	5,428	
123	Department of Military Affairs	1,094,328	893,425	122.5%	296,002	1.33	393,683	408,868	640,875	461,864	469,046	
125	Court of Appeals of Virginia	19,374	25,616	75.6%	7,092	1.16	8,226	8,544	13,392	9,651	9,801	
127	Department of Emergency Management	81,168	47,559	170.7%	10,886	1.74	18,942	19,672	30,835	22,222	22,568	
129	Department of Human Resource Management	13,901	42,069	33.0%	9,025	0.90	8,123	8,436	13,223	9,529	9,677	
132	Department of Elections	3,072	6,837	44.9%	2,012	0.97	1,951	2,026	3,176	2,289	2,325	
133	Auditor of Public Accounts	26,073	16,963	153.7%	5,035	1.48	7,452	7,739	12,131	8,742	8,878	
136	Virginia Information Technologies Agency	44,991	96,956	46.4%	23,051	0.77	17,749	18,434	28,894	20,823	21,147	
140	Department of Criminal Justice Services	14,938	33,080	45.2%	8,214	0.92	7,556	7,848	12,301	8,865	9,003	
141	Attorney General and Department of Law	59,057	99,672	59.3%	36,655	0.86	31,523	32,739	51,316	36,982	37,557	
146	The Science Museum of Virginia	29,534	65,354	45.2%	13,968	0.92	12,850	13,346	20,919	15,076	15,310	
147	Office of the State Inspector General	14,105	10,063	140.2%	10,330	0.88	9,090	3,843	6,024	4,341	4,409	
148	Virginia Commission for the Arts	555	1,271	43.6%	348	0.99	344	357	560	404	410	
151	Department of Accounts	18,543	32,577	56.9%	12,422	0.87	10,807	11,224	17,593	12,679	12,876	
152	Department of the Treasury	13,513	32,007	42.2%	8,254	0.91	7,511	7,801	12,228	8,812	8,949	
154	Department of Motor Vehicles	2,664,154	1,758,037	151.5%	429,266	1.51	648,192	673,193	1,055,188	760,450	772,276	
156	Department of State Police	18,747,416	15,159,072	123.7%	2,627,520	2.08	5,465,242	5,676,039	8,896,835	6,411,748	6,511,455	
157	Compensation Board	1,815	4,772	38.0%	1,189	0.98	1,165	1,210	1,897	1,367	1,388	
158	Virginia Retirement System	51,893	111,021	46.7%	33,373	0.77	25,697	26,688	41,832	30,147	30,616	
160	Virginia Criminal Sentencing Commission	1,172	2,914	40.2%	777	0.99	769	799	1,252	902	916	
161	Department of Taxation	120,307	210,350	57.2%	53,389	1.13	60,329	62,656	98,210	70,778	71,878	
162	Department of Accounts Transfer Payments	507	131	386.5%	340	0.99	337	142	223	161	163	
165	Department of Housing and Community Development	13,587	31,131	43.6%	8,310	0.89	7,396	7,681	12,040	8,677	8,812	
166	Secretary of the Commonwealth	1,906	4,958	38.4%	1,240	0.98	1,215	1,262	1,978	1,426	1,448	
171	State Corporation Commission	219,828	225,141	97.6%	120,882	0.75	90,661	94,158	147,587	106,363	108,017	
172	Virginia Lottery	335,875	91,999	365.1%	23,484	1.94	45,559	47,316	74,165	53,449	54,280	
174	Virginia College Savings Plan	12,830	28,012	45.8%	8,649	0.90	7,785	8,085	12,672	9,133	9,275	
175	Virginia Office for Protection and Advocacy	0	5,810	0.0%	0	1.00	0	0	0	0	0	
180	Secretary of Administration	1,474	3,528	41.8%	962	0.98	943	980	1,535	1,107	1,124	

**COMMONWEALTH OF VIRGINIA  
SELF INSURANCE FUND  
WORKERS' COMPENSATION PREMIUM FOR FISCAL YEAR 2019  
BASED ON LOSSES FROM OLIVER WYMAN'S REPORT AS OF 6/30/16**

**EXPERIENCE MODIFICATION FACTOR BASED ON NCCI FORMULA**

		Fiscal Year 2019 Premium Based on Oliver Wyman's June 30, 2016 Report									
Agency Code	Agency Name	2013-2015 Estimated Ultimate Incurred Losses	2013-2015 Actual Premium	2013-2015 Estimated Ultimate Loss Ratio	FY 2019 Manual Premium (Incl. Expenses)	Experience Modification Factor	FY 2019 Estimated Commercial Premium	Adjusted FY 2019 Estimated Commercial Premium	Indicated Undiscounted Actuarial Premium	Pay As You Go	Pay As You Go Plus
(1)	(2)	(3)	(4)	(5) = (3)/(4)	(6)	(7)	(8) = (6)x(7)	(9)	(10)	(11)	(12)
181	Department of Labor and Industry	81,869	108,724	75.3%	51,852	0.82	42,519	44,158	69,216	49,882	50,658
182	Virginia Employment Commission	304,689	342,691	88.9%	45,644	1.79	81,703	84,854	133,004	95,853	97,343
183	Secretary of Natural Resources	773	2,129	36.3%	546	0.99	541	562	880	634	644
184	Secretary of Technology	596	2,001	29.8%	390	0.99	386	401	628	453	460
185	Secretary of Education	850	1,774	47.9%	560	0.99	555	576	903	651	661
186	Secretary of Transportation	1,134	2,233	50.8%	745	0.99	738	766	1,201	866	879
187	Secretary of Public Safety	1,186	1,985	59.7%	858	0.99	850	883	1,383	997	1,012
188	Secretary of Health and Human Resources	872	1,998	43.6%	538	0.99	532	553	867	625	634
190	Secretary of Finance	746	1,642	45.4%	511	0.99	506	525	823	593	603
191	Virginia Workers' Compensation Commission	712,203	266,121	267.6%	79,526	1.07	85,093	88,375	138,522	99,830	101,382
192	Secretary of Commerce and Trade	695	1,948	35.7%	486	0.99	481	499	783	564	573
193	Secretary of Agriculture and Forestry	494	929	53.2%	344	1.00	344	357	560	404	410
194	Department of General Services	743,805	1,050,836	70.8%	296,097	0.86	254,643	264,465	414,532	298,744	303,390
199	Department of Conservation and Recreation	2,326,571	1,924,622	120.9%	612,973	1.12	686,529	713,009	1,117,597	805,427	817,952
200	Childrens Services Act	1,077	0	N/A	981	0.99	971	1,008	1,581	1,139	1,157
201	Department of Education, Central Office Operations	50,843	118,342	43.0%	27,575	0.94	25,920	26,920	42,196	30,409	30,882
202	The Library of Virginia	17,543	49,055	35.8%	8,810	0.94	8,281	8,601	13,481	9,716	9,867
203	Wilson Workforce and Rehabilitation Center	5,437,327	710,365	765.4%	151,766	1.51	229,167	238,006	373,060	268,856	273,037
204	The College of William and Mary In Virginia	2,095,360	2,012,109	104.1%	845,974	0.69	583,722	606,237	950,238	684,815	695,465
207	University of Virginia	14,592,576	8,545,214	170.8%	2,976,478	1.17	3,482,479	3,616,800	5,669,108	4,085,598	4,149,132
208	Virginia Polytechnic Institute and State University	14,343,412	10,013,490	143.2%	3,147,783	0.88	2,770,049	2,876,891	4,509,347	3,249,785	3,300,321
209	University of Virginia Medical Center	22,526,538	13,562,693	166.1%	4,593,074	1.35	6,200,650	6,439,812	10,094,002	7,274,520	7,387,643
211	Virginia Military Institute	661,285	594,052	111.3%	214,637	1.15	246,833	256,353	401,818	289,581	294,084
212	Virginia State University	666,353	655,102	101.7%	202,449	0.84	170,058	176,617	276,836	199,509	202,612
213	Norfolk State University	1,194,087	1,093,461	109.2%	292,256	1.04	303,946	315,670	494,792	356,586	362,131
214	Longwood University	1,226,415	638,697	192.0%	313,536	0.91	285,318	296,323	464,468	334,731	339,937
215	University of Mary Washington	1,307,388	761,465	171.7%	289,778	1.26	365,120	379,203	594,377	428,354	435,015
216	James Madison University	5,731,705	2,726,299	210.2%	1,258,140	1.02	1,283,303	1,332,801	2,089,082	1,505,554	1,528,967
217	Radford University	1,771,296	1,510,870	117.2%	642,404	0.71	456,107	473,699	742,494	535,099	543,420
218	Virginia School for the Deaf and the Blind	113,623	239,933	47.4%	55,135	0.86	47,416	49,245	77,189	55,628	56,493
221	Old Dominion University	3,460,921	2,116,430	163.5%	1,051,797	0.84	883,510	917,587	1,438,260	1,036,522	1,052,640
222	Department of Professional and Occupational Regulation	20,875	49,507	42.2%	13,101	0.85	11,136	11,566	18,129	13,065	13,268
223	Department of Health Professions	44,882	83,390	53.8%	29,143	0.79	23,023	23,911	37,479	27,010	27,430
226	Board of Accountancy	1,210	2,065	58.6%	855	0.99	847	879	1,378	993	1,009
229	VPI Cooperative Extension and Agricultural Experiment Station	527,779	0	N/A	314,614	0.56	176,184	182,980	286,809	206,697	209,911
233	Board of Bar Examiners	1,340	3,152	42.5%	853	0.99	844	877	1,374	990	1,006
234	VSU Cooperative Extension and Agricultural Research Services	28,327	45,986	61.6%	16,265	0.84	13,663	14,190	22,241	16,029	16,278
236	Virginia Commonwealth University	6,569,308	4,572,344	143.7%	2,152,876	0.75	1,614,657	1,676,935	2,628,491	1,894,294	1,923,752
238	Virginia Museum of Fine Arts	256,954	287,216	89.5%	145,659	0.83	120,897	125,560	196,808	141,835	144,041
239	Frontier Culture Museum of Virginia	267,356	13,691	1952.7%	2,878	1.91	5,497	5,709	8,948	6,448	6,549
241	Richard Bland College	70,387	0	N/A	41,969	0.73	30,637	31,819	49,874	35,943	36,502
242	Christopher Newport University	1,378,332	965,550	142.8%	520,868	0.77	401,068	416,538	652,897	470,528	477,845
245	State Council of Higher Education for Virginia	5,582	15,070	37.0%	3,910	0.95	3,714	3,857	6,046	4,357	4,425
246	University of Virginia's College at Wise	252,011	273,722	92.1%	113,581	0.94	106,766	110,884	173,804	125,257	127,205
247	George Mason University	4,265,652	3,912,095	109.0%	1,890,780	0.56	1,058,837	1,099,677	1,723,674	1,242,213	1,261,531

**COMMONWEALTH OF VIRGINIA  
SELF INSURANCE FUND  
WORKERS' COMPENSATION PREMIUM FOR FISCAL YEAR 2019  
BASED ON LOSSES FROM OLIVER WYMAN'S REPORT AS OF 6/30/16**

**EXPERIENCE MODIFICATION FACTOR BASED ON NCCI FORMULA**

		Fiscal Year 2019 Premium Based on Oliver Wyman's June 30, 2016 Report									
Agency Code	Agency Name	2013-2015 Estimated Ultimate Incurred Losses	2013-2015 Actual Premium	2013-2015 Estimated Ultimate Loss Ratio	FY 2019 Manual Premium (Incl. Expenses)	Experience Modification Factor	FY 2019 Estimated Commercial Premium	Adjusted FY 2019 Estimated Commercial Premium	Indicated Undiscounted Actuarial Premium	Pay As You Go	Pay As You Go Plus
(1)	(2)	(3)	(4)	(5) = (3)/(4)	(6)	(7)	(8) = (6)x(7)	(9)	(10)	(11)	(12)
260	Virginia Community College System	10,861,770	5,641,919	192.5%	2,078,260	1.08	2,244,520	2,331,093	3,653,842	2,633,241	2,674,190
262	Department of Rehabilitative Services	171,095	357,445	47.9%	84,935	0.90	76,442	79,390	124,439	89,680	91,075
263	Virginia Rehabilitation Center for the Blind and Vision Impaired	13,353	20,028	66.7%	2,962	1.17	3,466	3,599	5,642	4,066	4,129
268	Virginia Institute of Marine Science	395,742	553,906	71.4%	179,054	1.01	180,845	187,820	294,396	212,165	215,464
301	Department of Agriculture and Consumer Services	3,899,792	338,600	1151.7%	64,642	1.82	117,649	122,187	191,521	138,025	140,171
307	Virginia Agricultural Council	44	115	37.9%	11	1.00	11	12	18	13	13
330	Virginia-Israel Advisory Board	5,870	129	4538.8%	129	1.23	158	164	258	186	189
350	Department of Small Business and Supplier Diversity	4,489	16,568	27.1%	2,554	0.95	2,426	2,520	3,950	2,846	2,891
400	Jamestown 2007	0	0	N/A	663	1.00	663	182	285	206	209
402	Marine Resources Commission	1,285,722	409,261	314.2%	117,264	1.48	173,551	180,245	282,522	203,607	206,774
403	Department of Game and Inland Fisheries	2,327,279	1,614,636	144.1%	280,512	1.78	499,311	518,570	812,825	585,785	594,894
405	Virginia Racing Commission	4,541	5,215	87.1%	2,137	0.96	2,051	2,130	3,339	2,406	2,444
409	Department of Mines, Minerals and Energy	813,659	703,337	115.7%	316,552	0.81	256,407	266,297	417,404	300,814	305,492
411	Department of Forestry	665,230	1,150,128	57.8%	221,497	1.03	228,142	236,941	371,390	267,653	271,815
413	Commission on the Virginia Alcohol Safety Action Program	3,341	1,759	190.0%	2,639	0.98	2,587	2,686	4,211	3,034	3,082
417	Gunston Hall	3,840	5,931	64.7%	2,527	0.97	2,451	2,545	3,990	2,875	2,920
423	Department of Historic Resources	15,381	27,611	55.7%	9,794	0.87	8,521	8,849	13,871	9,996	10,152
425	Jamestown-Yorktown Foundation	233,743	397,321	58.8%	91,470	1.03	94,214	97,848	153,371	110,531	112,250
440	Department of Environmental Quality	1,031,480	697,015	148.0%	565,826	0.62	350,812	364,343	571,085	411,568	417,968
454	Office of Commonwealth Preparedness	1,314	3,509	37.5%	751	0.98	736	765	1,198	864	877
501	Department of Transportation	38,206,328	39,379,821	97.0%	15,122,813	0.70	10,585,969	10,994,275	17,232,837	12,419,317	12,612,446
505	Department of Rail and Public Transportation	10,111	19,550	51.7%	6,382	0.91	5,808	6,032	9,455	6,814	6,920
506	Motor Vehicle Dealer Board	5,587	10,039	55.7%	4,489	0.95	4,264	4,429	6,942	5,003	5,081
601	Department of Health	4,727,616	3,406,119	138.8%	1,793,404	0.78	1,398,855	1,452,810	2,277,188	1,641,118	1,666,639
602	Department of Medical Assistance Services	103,117	106,572	96.8%	37,392	1.05	39,262	40,776	63,914	46,062	46,778
606	Virginia Board for People with Disabilities	1,094	2,983	36.7%	712	0.99	705	733	1,148	828	840
702	Department for the Blind and Vision Impaired	196,953	348,977	56.4%	65,707	1.10	72,277	75,065	117,660	84,795	86,114
720	Department of Behavioral Health and Developmental Services	192,588	42,271,080	0.5%	34,614	1.73	59,882	62,192	97,482	70,253	71,346
751	Department for the Deaf and Hard-of-Hearing	1,079	2,585	41.7%	708	0.99	700	727	1,140	822	835
765	Department of Social Services	1,475,167	487,654	302.5%	117,966	1.50	176,949	183,774	288,054	207,594	210,822
766	Virginia Parole Board	2,012	3,294	61.1%	1,272	0.98	1,247	1,295	2,030	1,463	1,486
777	Department of Juvenile Justice	7,244,226	10,590,584	68.4%	1,216,772	2.09	2,543,053	2,641,139	4,139,820	2,983,475	3,029,870
778	Department of Forensic Science	627,704	313,063	200.5%	177,809	0.96	170,697	177,281	277,876	200,259	203,373
792	Mental Health Treatment Centers	23,527,658	0	N/A	3,728,355	2.02	7,531,278	7,821,763	12,260,123	8,835,594	8,972,994
793	Intellectual Disabilities Training Centers	15,267,354	0	N/A	2,383,438	1.18	2,812,457	2,920,935	4,578,382	3,299,537	3,350,847
794	Virginia Center for Behavioral Rehabilitation	1,849,041	538,171	343.6%	475,778	1.05	499,567	518,835	813,242	586,085	595,199
799	Department of Corrections	28,897,001	30,867,144	93.6%	7,620,742	1.06	8,077,987	8,389,558	13,150,107	9,476,986	9,624,359
820	Capitol Square Preservation Council	141	294	47.9%	122	1.00	122	127	199	144	146
834	Virginia Freedom of Information Advisory Council	249	669	37.2%	177	1.00	177	184	288	208	211
839	Virginia Commission on Youth	477	995	47.9%	286	0.99	283	294	461	332	337
841	Department of Aviation	197,109	88,914	221.7%	27,285	1.23	33,560	34,855	54,632	39,372	39,985
842	Chesapeake Bay Commission	126	88	142.0%	82	1.00	82	85	133	96	97
844	Joint Commission on Health Care	879	2,192	40.1%	513	0.99	508	527	827	596	605
847	Joint Commission on Technology and Science	191	423	45.2%	89	1.00	89	93	145	105	106
848	Indigent Defense Commission	128,306	153,110	83.8%	35,958	1.19	42,790	44,440	69,658	50,201	50,981
859	Virginia Sesquicentennial of the American Civil War Commission	89	355	25.0%	0	1.00	0	0	0	0	0
876	Virginia Conflict of Interest and Ethics Advisory Council	0	0	N/A	242	0.92	223	231	363	261	265
912	Department of Veterans Services	1,572,144	1,281,930	122.6%	326,961	1.79	585,260	607,833	952,741	686,619	697,296
937	Southern Virginia Higher Education Center	4,489	6,904	65.0%	2,602	0.97	2,524	2,621	4,108	2,961	3,007



**COMMONWEALTH OF VIRGINIA**  
**SELF INSURANCE FUND**  
**WORKERS' COMPENSATION PREMIUM FOR FISCAL YEAR 2019**  
**BASED ON LOSSES FROM OLIVER WYMAN'S REPORT AS OF 6/30/16**

**EXPERIENCE MODIFICATION FACTOR BASED ON NCCI FORMULA**

		Fiscal Year 2019 Premium Based on Oliver Wyman's June 30, 2016 Report									
Agency Code	Agency Name	2013-2015 Estimated Ultimate Incurred Losses	2013-2015 Actual Premium	2013-2015 Estimated Ultimate Loss Ratio	FY 2019 Manual Premium (Incl. Expenses)	Experience Modification Factor	FY 2019 Estimated Commercial Premium	Adjusted FY 2019 Estimated Commercial Premium	Indicated Undiscounted Actuarial Premium	Pay As You Go	Pay As You Go Plus
(1)	(2)	(3)	(4)	(5) = (3)/(4)	(6)	(7)	(8) = (6)x(7)	(9)	(10)	(11)	(12)
938	New College Institute	1,486	3,176	46.8%	845	0.99	836	869	1,361	981	996
942	Virginia Museum of Natural History	4,666	8,993	51.9%	2,091	0.98	2,049	2,128	3,336	2,404	2,442
948	Southwest Virginia Higher Education Center	13,479	22,119	60.9%	6,681	0.89	5,946	6,175	9,679	6,976	7,084
957	Commonwealth's Attorneys' Services Council	846	2,078	40.7%	584	0.99	578	600	941	678	688
960	Department of Fire Programs	225,029	314,629	71.5%	96,912	1.01	97,881	101,656	159,340	114,832	116,618
961	Division of Capitol Police	361,295	210,094	172.0%	97,455	1.35	131,564	136,639	214,172	154,349	156,749
999	Department of Alcoholic Beverage Control	8,082,425	3,667,851	220.4%	1,135,377	1.37	1,555,466	1,615,461	2,532,134	1,824,852	1,853,230
	Total	271,858,210	225,286,023	120.7%	64,953,517	1.12	69,878,117	72,567,038	113,744,286	81,972,941	83,247,675
	Target						72,747,940				

Note: Losses are gross of recoveries.





**COMMONWEALTH OF VIRGINIA  
WORKERS' COMPENSATION  
SELF INSURANCE FUND  
HISTORICAL PAYROLL AND PREMIUMS**

Agency Code	Agency Name	Historical & Projected Payroll							Actual Premiums				
		2013	2014	2015	2016	2017	2018	2019	2013	2014	2015	2016	2017
		(3a)	(3b)	(3c)	(3d)	(3e)	(3f)	(3g)	(4a)	(4b)	(4c)	(4d)	(4e)
601	Department of Health	172,751,826	172,218,837	171,217,692	173,203,286	173,203,286	173,203,286	173,203,286	1,151,427	1,184,243	1,070,448	1,229,845	1,292,929
602	Department of Medical Assistance Services	24,975,181	25,558,270	27,678,535	29,920,755	29,920,755	29,920,755	29,920,755	36,555	37,597	32,419	42,603	44,954
606	Virginia Board for People with Disabilities	606,712	633,621	521,996	593,747	593,747	593,747	593,747	1,043	1,073	866	931	782
702	Department for the Blind and Vision Impaired	10,429,499	10,923,512	11,531,105	12,426,001	12,426,001	12,426,001	12,426,001	124,192	127,731	117,083	120,548	101,986
720	Department of Behavioral Health and Developmental Services	16,656,487	18,812,423	21,607,493	23,748,966	23,748,966	23,748,966	23,748,966	13,414,671	13,796,990	15,059,419	57,459	68,294
751	Department for the Deaf and Hard-of-Hearing	545,161	570,075	546,640	589,602	589,602	589,602	589,602	890	916	778	837	827
765	Department of Social Services	84,400,583	87,495,899	90,073,266	95,466,880	95,466,880	95,466,880	95,466,880	173,509	178,454	135,691	179,968	223,898
766	Virginia Parole Board	983,993	1,032,633	1,037,192	1,060,309	1,060,309	1,060,309	1,060,309	934	961	1,399	1,517	1,546
777	Department of Juvenile Justice	85,156,535	89,288,438	79,754,247	80,163,727	80,163,727	80,163,727	80,163,727	3,424,307	3,521,900	3,644,378	2,693,595	2,722,339
778	Department of Forensic Science	18,993,289	19,648,530	19,808,829	20,130,874	20,130,874	20,130,874	20,130,874	101,034	103,913	108,116	139,321	211,438
792	Mental Health Treatment Centers	177,601,179	172,945,100	183,358,513	187,674,132	187,674,132	187,674,132	187,674,132	0	0	0	7,510,939	8,329,358
793	Intellectual Disabilities Training Centers	124,984,729	122,076,027	92,762,211	76,732,877	76,732,877	76,732,877	76,732,877	0	0	0	3,788,186	3,850,889
794	Virginia Center for Behavioral Rehabilitation	14,352,188	15,186,212	15,581,724	16,475,472	16,475,472	16,475,472	16,475,472	265,305	272,866	0	776,246	645,864
799	Department of Corrections	447,136,609	458,013,040	444,341,670	461,326,688	461,326,688	461,326,688	461,326,688	9,907,100	10,189,453	10,770,591	9,192,711	9,030,579
820	Capitol Square Preservation Council	0	44,432	88,578	101,999	101,999	101,999	101,999	145	149	0	66	135
834	Virginia Freedom of Information Advisory Council	151,647	114,953	135,832	147,684	147,684	147,684	147,684	222	228	219	171	208
839	Virginia Commission on Youth	219,925	218,262	261,257	238,286	238,286	238,286	238,286	333	342	320	327	401
841	Department of Aviation	2,214,683	2,421,223	2,313,986	2,487,527	2,487,527	2,487,527	2,487,527	29,876	30,727	28,310	33,322	35,102
842	Chesapeake Bay Commission	61,150	64,133	64,849	68,004	68,004	68,004	68,004	0	0	88	95	99
844	Joint Commission on Health Care	439,170	457,541	449,216	427,432	427,432	427,432	427,432	771	793	628	672	681
847	Joint Commission on Technology and Science	65,963	99,449	97,627	74,352	74,352	74,352	74,352	161	166	95	148	149
848	Indigent Defense Commission	28,465,703	29,422,754	29,349,645	29,965,002	29,965,002	29,965,002	29,965,002	58,569	60,238	34,303	48,143	43,683
859	Virginia Sesquicentennial of the American Civil War Commission	105,339	44,358	46,334	48,038	0	0	0	100	103	152	66	71
876	Virginia Conflict of Interest and Ethics Advisory Council	0	0	0	201,753	201,753	201,753	201,753	0	0	0	0	0
912	Department of Veterans Services	23,916,030	24,595,695	24,926,710	29,268,422	29,268,422	29,268,422	29,268,422	385,106	396,082	500,741	526,662	526,904
937	Southern Virginia Higher Education Center	1,714,501	1,813,094	1,927,339	2,168,104	2,168,104	2,168,104	2,168,104	2,222	2,286	2,396	2,636	2,853
938	New College Institute	590,493	722,248	789,191	703,959	703,959	703,959	703,959	1,150	1,183	843	1,061	1,180
942	Virginia Museum of Natural History	1,731,252	1,763,828	1,670,535	1,742,547	1,742,547	1,742,547	1,742,547	2,674	2,750	3,569	4,030	2,500
948	Southwest Virginia Higher Education Center	1,437,101	1,453,561	1,516,842	1,278,425	1,278,425	1,278,425	1,278,425	7,576	7,792	6,751	7,556	8,456
957	Commonwealth's Attorneys' Services Council	418,675	420,336	444,144	486,409	486,409	486,409	486,409	729	750	598	617	671
960	Department of Fire Programs	4,857,053	5,000,041	4,983,358	5,063,203	5,063,203	5,063,203	5,063,203	99,413	102,246	112,969	99,704	134,512
961	Division of Capitol Police	4,151,519	4,502,217	4,508,996	4,777,199	4,777,199	4,777,199	4,777,199	68,151	70,094	71,849	89,778	115,004
999	Department of Alcoholic Beverage Control	69,231,220	73,480,603	75,168,091	77,661,740	77,661,740	77,661,740	77,661,740	1,223,719	1,258,595	1,185,537	1,687,474	1,798,743
	Statewide Total	6,362,676,729	6,602,040,024	6,701,452,352	6,942,464,201	6,942,968,399	6,942,968,399	6,942,968,399	72,672,223	74,748,612	77,865,188	78,650,032	80,430,952
750	* Prior to Adjustment	1,209,001	0	0	0	0	0	0	165,945	0	0	0	0
777	* Prior to Adjustment	84,624,937	89,288,438	79,754,247	80,163,727	80,163,727	80,163,727	80,163,727	3,351,341	3,521,900	3,644,378	2,693,595	2,722,339
799	* Prior to Adjustment	446,459,206	458,013,040	444,341,670	461,326,688	461,326,688	461,326,688	461,326,688	9,814,121	10,189,453	10,770,591	9,192,711	9,030,579

# COMMONWEALTH OF VIRGINIA WORKERS' COMPENSATION SELF INSURANCE FUND

## SUMMARY OF PAYROLL, PREMIUMS, AND EXPERIENCE MODIFICATION FACTORS

Agency Code (1)	Agency Name (2)	2017 Payroll* (3a)	2018 Payroll (3b)	Payroll % Change (3c)	Pay As You Go Premium			Prior Experience Modification Factor (5a)	Current Experience Modification Factor (5b)	Adjusted FY 2018 Estimated Commercial Premium (6)
					2017 (4a)	2018 (4b)	% Change (4c)			
100	Senate of Virginia	6,986,786	7,038,958	0.7%	10,992	10,433	-5.1%	1.06	1.08	9,487
101	Virginia House of Delegates	11,942,264	12,461,130	4.3%	15,243	14,878	-2.4%	0.86	0.87	13,530
103	Magistrate System	20,325,294	19,799,474	-2.6%	34,088	30,976	-9.1%	1.13	1.14	28,169
107	Division of Legislative Services	4,565,215	4,449,137	-2.5%	6,234	5,617	-9.9%	0.92	0.92	5,108
109	Division of Legislative Automated Systems	1,611,584	1,574,721	-2.3%	2,320	2,096	-9.7%	0.97	0.97	1,906
110	Joint Legislative Audit and Review Commission	2,329,630	2,379,855	2.2%	3,285	3,135	-4.5%	0.95	0.96	2,851
111	Supreme Court of Virginia	14,416,717	14,734,945	2.2%	40,767	18,831	-53.8%	1.71	0.83	17,125
112	Judicial Inquiry and Review Commission	376,752	368,753	-2.1%	537	501	-6.7%	0.99	0.99	456
113	Circuit Courts	25,828,055	27,951,241	8.2%	31,375	37,208	18.6%	0.92	0.97	33,836
114	General District Courts	47,661,849	47,948,604	0.6%	61,049	58,564	-4.1%	0.90	0.89	53,257
115	Juvenile and Domestic Relations District Courts	35,134,091	36,002,565	2.5%	91,275	53,855	-41.0%	1.85	1.09	48,975
116	Combined District Courts	11,817,758	11,748,020	-0.6%	14,558	13,704	-5.9%	0.83	0.85	12,462
117	Virginia State Bar	6,561,812	6,412,221	-2.3%	10,270	9,864	-4.0%	0.97	0.98	8,970
119	Lieutenant Governor	158,888	163,871	3.1%	236	225	-4.6%	1.00	1.00	205
121	Office of the Governor	2,698,179	2,876,224	6.6%	3,764	3,789	0.7%	0.94	0.96	3,446
122	Department of Planning and Budget	3,847,947	3,913,718	1.7%	5,483	5,210	-5.0%	0.96	0.97	4,738
123	Department of Military Affairs	14,014,336	15,084,883	7.6%	354,589	450,227	27.0%	1.06	1.33	409,428
125	Court of Appeals of Virginia	5,870,169	5,909,797	0.7%	9,531	9,408	-1.3%	1.14	1.16	8,555
127	Department of Emergency Management	7,320,807	6,811,735	-7.0%	16,495	21,662	31.3%	1.26	1.74	19,699
129	Department of Human Resource Management	7,211,676	7,520,907	4.3%	9,419	9,289	-1.4%	0.88	0.90	8,447
132	Department of Elections	1,586,276	1,676,272	5.7%	2,260	2,231	-1.3%	0.96	0.97	2,029
133	Auditor of Public Accounts	7,765,047	7,821,246	0.7%	9,207	8,522	-7.4%	1.42	1.48	7,750
136	Virginia Information Technologies Agency	23,388,370	18,914,307	-19.1%	26,635	20,299	-23.8%	0.76	0.77	18,459
140	Department of Criminal Justice Services	6,755,641	6,593,552	-2.4%	9,295	8,642	-7.0%	0.89	0.92	7,859
141	Attorney General and Department of Law	28,188,964	29,933,487	6.2%	33,295	36,051	8.3%	0.85	0.86	32,784
146	The Science Museum of Virginia	3,728,407	3,779,738	1.4%	25,704	14,696	-42.8%	1.38	0.92	13,364
147	Office of the State Inspector General	2,498,570	2,726,050	9.1%	3,759	3,915	4.2%	0.90	0.88	3,561
148	Virginia Commission for the Arts	307,353	289,746	-5.7%	452	394	-12.8%	0.99	0.99	358
151	Department of Accounts	10,177,639	10,317,712	1.4%	13,444	12,360	-8.1%	0.89	0.87	11,240
152	Department of the Treasury	6,754,623	6,878,598	1.8%	9,925	8,590	-13.4%	0.99	0.91	7,812
154	Department of Motor Vehicles	90,461,444	92,259,326	2.0%	672,414	741,290	10.2%	1.28	1.51	674,115
156	Department of State Police	153,138,066	154,781,863	1.1%	6,605,199	6,250,200	-5.4%	2.33	2.08	5,683,815
157	Compensation Board	957,714	990,671	3.4%	1,393	1,332	-4.4%	0.98	0.98	1,212
158	Virginia Retirement System	26,900,317	27,810,654	3.4%	30,343	29,388	-3.1%	0.76	0.77	26,725
160	Virginia Criminal Sentencing Commission	629,738	647,339	2.8%	925	879	-5.0%	0.99	0.99	800
161	Department of Taxation	45,798,677	46,227,633	0.9%	70,114	68,994	-1.6%	1.07	1.13	62,742
162	Department of Accounts Transfer Payments	271,962	283,403	4.2%	140	145	3.5%	0.99	0.99	132
165	Department of Housing and Community Development	6,012,315	5,825,860	-3.1%	10,097	8,458	-16.2%	0.90	0.89	7,692
166	Secretary of the Commonwealth	1,014,891	1,033,287	1.8%	1,476	1,390	-5.9%	0.98	0.98	1,264
171	State Corporation Commission	44,331,586	44,321,166	0.0%	102,448	103,683	1.2%	0.75	0.75	94,287
172	Virginia Lottery	18,681,290	18,907,945	1.2%	43,752	52,103	19.1%	1.57	1.94	47,381
174	Virginia College Savings Plan	7,012,231	7,207,888	2.8%	9,263	8,903	-3.9%	0.89	0.90	8,096
175	Virginia Office for Protection and Advocacy	0	0	N/A	0	0	N/A	0.99	1.00	0
180	Secretary of Administration	793,428	802,061	1.1%	1,154	1,079	-6.5%	0.98	0.98	981
181	Department of Labor and Industry	7,852,283	7,846,205	-0.1%	53,696	48,625	-9.4%	0.84	0.82	44,219
182	Virginia Employment Commission	40,647,978	37,432,438	-7.9%	107,534	93,438	-13.1%	1.76	1.79	84,970
183	Secretary of Natural Resources	446,491	455,137	1.9%	656	618	-5.7%	0.99	0.99	562
184	Secretary of Technology	333,376	324,919	-2.5%	490	441	-9.9%	0.99	0.99	401

**COMMONWEALTH OF VIRGINIA**  
**WORKERS' COMPENSATION**  
**SELF INSURANCE FUND**  
**SUMMARY OF PAYROLL, PREMIUMS, AND EXPERIENCE MODIFICATION FACTORS**

Agency Code (1)	Agency Name (2)	2017 Payroll* (3a)	2018 Payroll (3b)	Payroll % Change (3c)	Pay As You Go Premium			Prior Experience Modification Factor (5a)	Current Experience Modification Factor (5b)	Adjusted FY 2018 Estimated Commercial Premium (6)
					2017 (4a)	2018 (4b)	% Change (4c)			
185	Secretary of Education	459,167	466,756	1.7%	675	634	-6.0%	0.99	0.99	577
186	Secretary of Transportation	618,069	621,198	0.5%	908	844	-7.1%	0.99	0.99	767
187	Secretary of Public Safety	716,679	715,284	-0.2%	1,053	972	-7.7%	0.99	0.99	884
188	Secretary of Health and Human Resources	454,147	448,130	-1.3%	667	609	-8.8%	0.99	0.99	554
190	Secretary of Finance	433,672	425,786	-1.8%	637	578	-9.2%	0.99	0.99	526
191	Virginia Workers' Compensation Commission	16,643,391	17,366,290	4.3%	88,244	97,314	10.3%	0.93	1.07	88,496
192	Secretary of Commerce and Trade	392,960	404,711	3.0%	577	550	-4.8%	0.99	0.99	500
193	Secretary of Agriculture and Forestry	287,960	286,756	-0.4%	423	394	-7.0%	0.99	1.00	358
194	Department of General Services	34,435,935	34,304,356	-0.4%	264,501	291,217	10.1%	0.72	0.86	264,827
199	Department of Conservation and Recreation	28,871,775	30,211,385	4.6%	761,488	785,134	3.1%	1.10	1.12	713,986
200	Childrens Services Act	900,380	817,344	-9.2%	1,353	1,110	-17.9%	0.99	0.99	1,010
201	Department of Education, Central Office Operations	19,518,237	20,879,354	7.0%	29,006	29,643	2.2%	0.89	0.94	26,957
202	The Library of Virginia	6,690,269	6,467,421	-3.3%	10,695	9,471	-11.4%	0.94	0.94	8,613
203	Wilson Workforce and Rehabilitation Center	13,968,742	13,823,717	-1.0%	290,491	262,082	-9.8%	1.56	1.51	238,333
204	The College of William and Mary In Virginia	140,423,012	145,155,573	3.4%	612,697	667,561	9.0%	0.64	0.69	607,067
207	University of Virginia	554,075,262	574,723,597	3.7%	4,205,406	3,982,659	-5.3%	1.26	1.17	3,621,755
208	Virginia Polytechnic Institute and State University	543,194,216	563,433,581	3.7%	3,229,640	3,167,904	-1.9%	0.91	0.88	2,880,833
209	University of Virginia Medical Center	455,844,324	495,757,494	8.8%	7,037,168	7,091,233	0.8%	1.50	1.35	6,448,635
211	Virginia Military Institute	28,776,423	28,696,136	-0.3%	332,203	282,285	-15.0%	1.31	1.15	256,704
212	Virginia State University	48,852,568	45,798,816	-6.3%	214,869	194,482	-9.5%	0.84	0.84	176,859
213	Norfolk State University	60,147,326	54,967,728	-8.6%	393,638	347,601	-11.7%	1.01	1.04	316,102
214	Longwood University	46,801,587	47,895,823	2.3%	277,182	326,297	17.7%	0.77	0.91	296,729
215	University of Mary Washington	49,097,343	47,808,952	-2.6%	375,799	417,561	11.1%	1.08	1.26	379,722
216	James Madison University	195,534,962	203,697,305	4.2%	1,477,715	1,467,621	-0.7%	1.05	1.02	1,334,627
217	Radford University	79,945,885	81,481,895	1.9%	528,041	521,616	-1.2%	0.68	0.71	474,348
218	Virginia School for the Deaf and the Blind	6,435,807	6,134,193	-4.7%	54,436	54,227	-0.4%	0.83	0.86	49,313
221	Old Dominion University	177,082,817	180,294,936	1.8%	966,749	1,010,406	4.5%	0.80	0.84	918,844
222	Department of Professional and Occupational Regulation	10,634,377	10,331,711	-2.8%	13,616	12,736	-6.5%	0.84	0.85	11,582
223	Department of Health Professions	13,626,218	13,698,254	0.5%	26,707	26,329	-1.4%	0.79	0.79	23,943
226	Board of Accountancy	665,527	712,624	7.1%	978	968	-1.0%	0.99	0.99	880
229	VPI Cooperative Extension and Agricultural Experiment Station	56,182,426	56,314,020	0.2%	205,564	201,489	-2.0%	0.56	0.56	183,230
233	Board of Bar Examiners	725,988	710,504	-2.1%	1,056	965	-8.6%	0.98	0.99	878
234	VSU Cooperative Extension and Agricultural Research Services	3,902,274	4,494,617	15.2%	13,852	15,625	12.8%	0.84	0.84	14,209
236	Virginia Commonwealth University	422,642,210	437,869,571	3.6%	1,715,621	1,846,566	7.6%	0.71	0.75	1,679,233
238	Virginia Museum of Fine Arts	14,096,288	14,340,080	1.7%	124,673	138,261	10.9%	0.81	0.83	125,732
239	Frontier Culture Museum of Virginia	1,159,597	1,194,383	3.0%	6,719	6,286	-6.4%	1.83	1.91	5,716
241	Richard Bland College	6,962,100	7,201,177	3.4%	35,124	35,038	-0.2%	0.74	0.73	31,863
242	Christopher Newport University	57,298,003	59,060,959	3.1%	434,873	458,673	5.5%	0.73	0.77	417,108
245	State Council of Higher Education for Virginia	3,028,553	3,258,066	7.6%	4,180	4,248	1.6%	0.93	0.95	3,863
246	University of Virginia's College at Wise	17,615,808	18,919,214	7.4%	116,443	122,101	4.9%	0.94	0.94	111,036
247	George Mason University	384,259,937	389,216,012	1.3%	1,030,054	1,210,915	17.6%	0.48	0.56	1,101,183

**COMMONWEALTH OF VIRGINIA  
WORKERS' COMPENSATION  
SELF INSURANCE FUND**

**SUMMARY OF PAYROLL, PREMIUMS, AND EXPERIENCE MODIFICATION FACTORS**

Agency Code (1)	Agency Name (2)	2017 Payroll* (3a)	2018 Payroll (3b)	Payroll % Change (3c)	Pay As You Go Premium			Prior Experience Modification Factor (5a)	Current Experience Modification Factor (5b)	Adjusted FY 2018 Estimated Commercial Premium (6)
					2017 (4a)	2018 (4b)	% Change (4c)			
260	Virginia Community College System	571,855,759	560,832,128	-1.9%	2,314,201	2,566,895	10.9%	0.92	1.08	2,334,286
262	Department of Rehabilitative Services	53,124,328	51,748,767	-2.6%	120,198	87,421	-27.3%	1.19	0.90	79,499
263	Virginia Rehabilitation Center for the Blind and Vision Impaired	1,193,322	1,140,633	-4.4%	4,103	3,964	-3.4%	1.02	1.17	3,604
268	Virginia Institute of Marine Science	23,382,271	24,014,330	2.7%	147,612	206,819	40.1%	0.73	1.01	188,077
301	Department of Agriculture and Consumer Services	25,591,427	25,023,522	-2.2%	127,639	134,547	5.4%	1.64	1.82	122,354
307	Virginia Agricultural Council	22,352	9,353	-58.2%	33	13	-61.3%	1.00	1.00	12
330	Virginia-Israel Advisory Board	116,197	107,250	-7.7%	217	181	-16.7%	1.26	1.23	165
350	Department of Small Business and Supplier Diversity	2,289,637	2,128,291	-7.0%	3,194	2,775	-13.1%	0.94	0.95	2,523
400	Jamestown 2007	0	552,235	N/A	0	161	N/A	N/A	1.00	147
402	Marine Resources Commission	7,328,242	7,155,604	-2.4%	241,280	198,477	-17.7%	1.78	1.48	180,492
403	Department of Game and Inland Fisheries	24,497,455	23,745,013	-3.1%	609,725	571,026	-6.3%	1.80	1.78	519,280
405	Virginia Racing Commission	431,142	324,526	-24.7%	887	2,346	164.4%	0.98	0.96	2,133
409	Department of Mines, Minerals and Energy	13,012,677	12,563,201	-3.5%	237,614	293,235	23.4%	0.69	0.81	266,662
411	Department of Forestry	11,894,938	11,838,132	-0.5%	315,923	260,909	-17.4%	1.12	1.03	237,266
413	Commission on the Virginia Alcohol Safety Action Program	557,975	554,500	-0.6%	1,305	2,958	126.6%	0.99	0.98	2,690
417	Gunston Hall	328,905	340,040	3.4%	2,675	2,803	4.8%	0.97	0.97	2,549
423	Department of Historic Resources	2,438,209	2,483,987	1.9%	9,461	9,744	3.0%	0.87	0.87	8,861
425	Jamestown-Yorktown Foundation	7,890,629	8,030,825	1.8%	121,542	107,746	-11.4%	1.14	1.03	97,982
440	Department of Environmental Quality	50,386,415	50,103,700	-0.6%	362,281	401,199	10.7%	0.64	0.62	364,842
454	Office of Commonwealth Preparedness	624,951	625,950	0.2%	909	842	-7.4%	0.98	0.98	766
501	Department of Transportation	422,002,877	426,374,623	1.0%	13,150,941	12,106,403	-7.9%	0.78	0.70	11,009,337
505	Department of Rail and Public Transportation	3,785,186	3,849,572	1.7%	6,529	6,642	1.7%	0.78	0.91	6,040
506	Motor Vehicle Dealer Board	1,253,000	1,401,883	11.9%	3,352	4,877	45.5%	0.78	0.95	4,435
601	Department of Health	176,235,363	173,203,286	-1.7%	1,292,929	1,599,769	23.7%	0.69	0.78	1,454,800
602	Department of Medical Assistance Services	28,468,219	29,920,755	5.1%	44,954	44,901	-0.1%	1.02	1.05	40,832
606	Virginia Board for People with Disabilities	537,298	593,747	10.5%	782	807	3.2%	0.98	0.99	734
702	Department for the Blind and Vision Impaired	11,867,806	12,426,001	4.7%	101,986	82,658	-19.0%	1.29	1.10	75,168
720	Department of Behavioral Health and Developmental Services	22,263,564	23,748,966	6.7%	68,294	68,483	0.3%	1.73	1.73	62,277
751	Department for the Deaf and Hard-of-Hearing	562,631	589,602	4.8%	827	801	-3.1%	0.99	0.99	728
765	Department of Social Services	92,786,127	95,466,880	2.9%	223,898	202,363	-9.6%	1.59	1.50	184,025
766	Virginia Parole Board	1,062,957	1,060,309	-0.2%	1,546	1,426	-7.8%	0.98	0.98	1,297
777	Department of Juvenile Justice	82,148,036	80,163,727	-2.4%	2,722,339	2,908,304	6.8%	1.91	2.09	2,644,758
778	Department of Forensic Science	20,403,913	20,130,874	-1.3%	211,438	195,213	-7.7%	0.83	0.96	177,523
792	Mental Health Treatment Centers	188,493,235	187,674,132	-0.4%	8,329,358	8,612,975	3.4%	1.87	2.02	7,832,479
793	Intellectual Disabilities Training Centers	95,288,860	76,732,877	-19.5%	3,850,889	3,216,402	-16.5%	1.05	1.18	2,924,936
794	Virginia Center for Behavioral Rehabilitation	16,038,372	16,475,472	2.7%	645,864	571,318	-11.5%	1.13	1.05	519,546
799	Department of Corrections	457,800,685	461,326,688	0.8%	9,030,579	9,238,206	2.3%	1.05	1.06	8,401,052
820	Capitol Square Preservation Council	91,221	101,999	11.8%	135	140	3.4%	1.00	1.00	127
834	Virginia Freedom of Information Advisory Council	140,059	147,684	5.4%	208	203	-2.5%	1.00	1.00	184
839	Virginia Commission on Youth	267,755	238,286	-11.0%	401	324	-19.3%	1.01	0.99	294
841	Department of Aviation	2,382,945	2,487,527	4.4%	35,102	38,380	9.3%	1.17	1.23	34,902
842	Chesapeake Bay Commission	66,866	68,004	1.7%	99	93	-6.0%	1.00	1.00	85
844	Joint Commission on Health Care	463,165	427,432	-7.7%	681	581	-14.7%	0.99	0.99	528
847	Joint Commission on Technology and Science	100,664	74,352	-26.1%	149	102	-31.7%	1.00	1.00	93
848	Indigent Defense Commission	30,260,795	29,965,002	-1.0%	43,683	48,936	12.0%	1.05	1.19	44,501
859	Virginia Sesquicentennial of the American Civil War Commission	47,624	0	-100.0%	71	0	-100.0%	1.00	1.00	0
876	Virginia Conflict of Interest and Ethics Advisory Council	0	201,753	N/A	0	255	N/A	N/A	0.92	232
912	Department of Veterans Services	25,611,286	29,268,422	14.3%	526,904	669,319	27.0%	1.65	1.79	608,666

**COMMONWEALTH OF VIRGINIA  
WORKERS' COMPENSATION  
SELF INSURANCE FUND  
SUMMARY OF PAYROLL, PREMIUMS, AND EXPERIENCE MODIFICATION FACTORS**

Agency Code (1)	Agency Name (2)	2017 Payroll* (3a)	2018 Payroll (3b)	Payroll % Change (3c)	Pay As You Go Premium			Prior Experience Modification Factor (5a)	Current Experience Modification Factor (5b)	Adjusted FY 2018 Estimated Commercial Premium (6)
					2017 (4a)	2018 (4b)	% Change (4c)			
937	Southern Virginia Higher Education Center	1,981,652	2,168,104	9.4%	2,853	2,886	1.2%	0.97	0.97	2,625
938	New College Institute	811,314	703,959	-13.2%	1,180	956	-19.0%	0.98	0.99	870
942	Virginia Museum of Natural History	1,718,466	1,742,547	1.4%	2,500	2,344	-6.2%	0.98	0.98	2,131
948	Southwest Virginia Higher Education Center	1,555,991	1,278,425	-17.8%	8,456	6,800	-19.6%	0.88	0.89	6,184
957	Commonwealth's Attorneys' Services Council	456,879	486,409	6.5%	671	661	-1.6%	0.99	0.99	601
960	Department of Fire Programs	5,100,731	5,063,203	-0.7%	134,512	111,939	-16.8%	1.07	1.01	101,795
961	Division of Capitol Police	4,634,731	4,777,199	3.1%	115,004	150,460	30.8%	1.11	1.35	136,826
999	Department of Alcoholic Beverage Control	76,612,689	77,661,740	1.4%	1,798,743	1,778,874	-1.1%	1.35	1.37	1,617,674
	Statewide Total	6,840,786,498	6,942,968,399	1.5%	80,430,952	79,907,205	-0.7%	1.13	1.12	72,666,119

\*Column (3a) uses the estimated FY2017 payroll used in the FY2017 premium allocation.

For agencies that are shown separately for the first time in this study, column (4a) is estimated using the distribution of manual losses.



**COMMONWEALTH OF VIRGINIA  
SELF INSURANCE FUND**

Exhibit 6

**SUMMARY OF COMBINED AGENCY CODES**

<b>GIVEN AGENCY:</b>	<b>ROLLED INTO:</b>
10 Virginia Polytechnic Institute & State University	208 Virginia Polytechnic Institute and State University
11 Department of State Police	156 Department of State Police
100 Senate of Virginia	100 Senate of Virginia
101 Virginia House of Delegates	101 Virginia House of Delegates
103 Magistrate System	103 Magistrate System
107 Division of Legislative Services	107 Division of Legislative Services
108 VA Code Commission	108 VA Code Commission
109 Division of Legislative Automated Systems	109 Division of Legislative Automated Systems
110 Joint Legislative Audit and Review Commission	110 Joint Legislative Audit and Review Commission
111 Supreme Court of Virginia	111 Supreme Court of Virginia
112 Judicial Inquiry and Review Commission	112 Judicial Inquiry and Review Commission
113 Circuit Courts	113 Circuit Courts
114 General District Courts	114 General District Courts
115 Juvenile and Domestic Relations District Courts	115 Juvenile and Domestic Relations District Courts
116 Combined District Courts	116 Combined District Courts
117 Virginia State Bar	117 Virginia State Bar
119 Lieutenant Governor	119 Lieutenant Governor
121 Office of the Governor	121 Office of the Governor
122 Department of Planning and Budget	122 Department of Planning and Budget
123 Department of Military Affairs	123 Department of Military Affairs
125 Court of Appeals of Virginia	125 Court of Appeals of Virginia
127 Department of Emergency Management	127 Department of Emergency Management
128 Virginia Veteran's Care Center	912 Department of Veterans Services
129 Department of Human Resource Management	129 Department of Human Resource Management
132 Department of Elections	132 Department of Elections
133 Auditor of Public Accounts	133 Auditor of Public Accounts
136 Virginia Information Technologies Agency	136 Virginia Information Technologies Agency
140 Department of Criminal Justice Services	140 Department of Criminal Justice Services
141 Attorney General and Department of Law	141 Attorney General and Department of Law
142 Virginia State Crime Commission	107 Division of Legislative Services
143 Division of Debt Collection	141 Attorney General and Department of Law
146 The Science Museum of Virginia	146 The Science Museum of Virginia
147 Office of the State Inspector General	147 Office of the State Inspector General
148 Virginia Commission for the Arts	148 Virginia Commission for the Arts
151 Department of Accounts	151 Department of Accounts
152 Department of the Treasury	152 Department of the Treasury
154 Department of Motor Vehicles	154 Department of Motor Vehicles
156 Department of State Police	156 Department of State Police
157 Compensation Board	157 Compensation Board
158 Virginia Retirement System	158 Virginia Retirement System
160 Virginia Criminal Sentencing Commission	160 Virginia Criminal Sentencing Commission
161 Department of Taxation	161 Department of Taxation
162 Department of Accounts Transfer Payments	162 Department of Accounts Transfer Payments
163 Department for the Aging	262 Department of Rehabilitative Services
165 Department of Housing and Community Development	165 Department of Housing and Community Development
166 Secretary of the Commonwealth	166 Secretary of the Commonwealth
170 Human Rights Council	141 Attorney General and Department of Law
171 State Corporation Commission	171 State Corporation Commission
172 Virginia Lottery	172 Virginia Lottery
174 Virginia College Savings Plan	174 Virginia College Savings Plan

**COMMONWEALTH OF VIRGINIA  
SELF INSURANCE FUND**

**SUMMARY OF COMBINED AGENCY CODES**

<b>GIVEN AGENCY:</b>	<b>ROLLED INTO:</b>
175 Virginia Office for Protection and Advocacy	175 Virginia Office for Protection and Advocacy
180 Secretary of Administration	180 Secretary of Administration
181 Department of Labor and Industry	181 Department of Labor and Industry
182 Virginia Employment Commission	182 Virginia Employment Commission
183 Secretary of Natural Resources	183 Secretary of Natural Resources
184 Secretary of Technology	184 Secretary of Technology
185 Secretary of Education	185 Secretary of Education
186 Secretary of Transportation	186 Secretary of Transportation
187 Secretary of Public Safety	187 Secretary of Public Safety
188 Secretary of Health and Human Resources	188 Secretary of Health and Human Resources
190 Secretary of Finance	190 Secretary of Finance
191 Virginia Workers' Compensation Commission	191 Virginia Workers' Compensation Commission
192 Secretary of Commerce and Trade	192 Secretary of Commerce and Trade
193 Secretary of Agriculture and Forestry	193 Secretary of Agriculture and Forestry
194 Department of General Services	194 Department of General Services
199 Department of Conservation and Recreation	199 Department of Conservation and Recreation
200 Childrens Services Act	200 Childrens Services Act
201 Department of Education, Central Office Operations	201 Department of Education, Central Office Operations
202 The Library of Virginia	202 The Library of Virginia
203 Wilson Workforce and Rehabilitation Center	203 Wilson Workforce and Rehabilitation Center
204 The College of William and Mary In Virginia	204 The College of William and Mary In Virginia
207 University of Virginia	207 University of Virginia
208 Virginia Polytechnic Institute and State University	208 Virginia Polytechnic Institute and State University
209 University of Virginia Medical Center	209 University of Virginia Medical Center
211 Virginia Military Institute	211 Virginia Military Institute
212 Virginia State University	212 Virginia State University
213 Norfolk State University	213 Norfolk State University
214 Longwood University	214 Longwood University
215 University of Mary Washington	215 University of Mary Washington
216 James Madison University	216 James Madison University
217 Radford University	217 Radford University
218 Virginia School for the Deaf and the Blind	218 Virginia School for the Deaf and the Blind
221 Old Dominion University	221 Old Dominion University
222 Department of Professional and Occupational Regulation	222 Department of Professional and Occupational Regulation
223 Department of Health Professions	223 Department of Health Professions
226 Board of Accountancy	226 Board of Accountancy
229 VPI Cooperative Extension and Agricultural Experiment Station	229 VPI Cooperative Extension and Agricultural Experiment Station
232 Dept of Minority Business Enterprise	350 Department of Small Business and Supplier Diversity
233 Board of Bar Examiners	233 Board of Bar Examiners
234 VSU Cooperative Extension and Agricultural Research Services	234 VSU Cooperative Extension and Agricultural Research Services
236 Virginia Commonwealth University	236 Virginia Commonwealth University
238 Virginia Museum of Fine Arts	238 Virginia Museum of Fine Arts
239 Frontier Culture Museum of Virginia	239 Frontier Culture Museum of Virginia
241 Richard Bland College	241 Richard Bland College
242 Christopher Newport University	242 Christopher Newport University
245 State Council of Higher Education for Virginia	245 State Council of Higher Education for Virginia
246 University of Virginia's College at Wise	246 University of Virginia's College at Wise
247 George Mason University	247 George Mason University
260 Virginia Community College System	260 Virginia Community College System
261 Virginia Community College System	260 Virginia Community College System
262 Department of Rehabilitative Services	262 Department of Rehabilitative Services

**COMMONWEALTH OF VIRGINIA  
SELF INSURANCE FUND**

Exhibit 6

**SUMMARY OF COMBINED AGENCY CODES**

<b>GIVEN AGENCY:</b>	<b>ROLLED INTO:</b>
263 Virginia Rehabilitation Center for the Blind and Vision Impaired	263 Virginia Rehabilitation Center for the Blind and Vision Impaired
268 Virginia Institute of Marine Science	268 Virginia Institute of Marine Science
275 New River Community College	260 Virginia Community College System
276 Southside Virginia Community College	260 Virginia Community College System
277 Paul D. Camp Community College	260 Virginia Community College System
278 Rappahannock Community College	260 Virginia Community College System
279 Danville Community College	260 Virginia Community College System
280 Northern Virginia Community College	260 Virginia Community College System
282 Piedmont Virginia Community College	260 Virginia Community College System
283 J. Sargeant Reynolds Community College	260 Virginia Community College System
284 Eastern Shore Community College	260 Virginia Community College System
285 Patrick Henry Community College	260 Virginia Community College System
286 Virginia Western Community College	260 Virginia Community College System
287 Dabney S. Lancaster Community College	260 Virginia Community College System
288 Wytheville Community College	260 Virginia Community College System
290 John Tyler Community College	260 Virginia Community College System
291 Blue Ridge Community College	260 Virginia Community College System
292 Central Virginia Community College	260 Virginia Community College System
293 Thomas Nelson Community College	260 Virginia Community College System
294 Southwest Virginia Community College	260 Virginia Community College System
295 Tidewater Community College	260 Virginia Community College System
296 Virginia Highlands Community College	260 Virginia Community College System
297 Germanna Community College	260 Virginia Community College System
298 Lord Fairfax Community College	260 Virginia Community College System
299 Mountain Empire Community College	260 Virginia Community College System
301 Department of Agriculture and Consumer Services	301 Department of Agriculture and Consumer Services
307 Virginia Agricultural Council	307 Virginia Agricultural Council
319 Chippokes Plantation Farm Foundation	199 Department of Conservation and Recreation
325 Department of Business Assistance	350 Department of Small Business and Supplier Diversity
330 Virginia-Israel Advisory Board	330 Virginia-Israel Advisory Board
350 Department of Small Business and Supplier Diversity	350 Department of Small Business and Supplier Diversity
400 Jamestown 2007	400 Jamestown 2007
402 Marine Resources Commission	402 Marine Resources Commission
403 Department of Game and Inland Fisheries	403 Department of Game and Inland Fisheries
405 Virginia Racing Commission	405 Virginia Racing Commission
409 Department of Mines, Minerals and Energy	409 Department of Mines, Minerals and Energy
411 Department of Forestry	411 Department of Forestry
413 Commission on the Virginia Alcohol Safety Action Program	413 Commission on the Virginia Alcohol Safety Action Program
417 Gunston Hall	417 Gunston Hall
422 State Air Pollution Control Board	422 State Air Pollution Control Board
423 Department of Historic Resources	423 Department of Historic Resources
425 Jamestown-Yorktown Foundation	425 Jamestown-Yorktown Foundation
440 Department of Environmental Quality	440 Department of Environmental Quality
454 Office of Commonwealth Preparedness	454 Office of Commonwealth Preparedness
501 Department of Transportation	501 Department of Transportation
502 Central Garage	501 Department of Transportation
505 Department of Rail and Public Transportation	505 Department of Rail and Public Transportation
506 Motor Vehicle Dealer Board	506 Motor Vehicle Dealer Board
510 VDOT - Central Office	501 Department of Transportation
511 VDOT - Bristol District	501 Department of Transportation

**COMMONWEALTH OF VIRGINIA  
SELF INSURANCE FUND**

**SUMMARY OF COMBINED AGENCY CODES**

<b>GIVEN AGENCY:</b>	<b>ROLLED INTO:</b>
512 VDOT - Salem District	501 Department of Transportation
513 VDOT - Lynchburg District	501 Department of Transportation
514 VDOT - Richmond District	501 Department of Transportation
515 VDOT - Suffolk District	501 Department of Transportation
516 VDOT - Fredicksburg District	501 Department of Transportation
517 VDOT - Culpeper District	501 Department of Transportation
518 VDOT - Staunton District	501 Department of Transportation
519 VDOT - Northern Virginia District	501 Department of Transportation
520 VDOT - Hourly	501 Department of Transportation
601 Department of Health	601 Department of Health
602 Department of Medical Assistance Services	602 Department of Medical Assistance Services
606 Virginia Board for People with Disabilities	606 Virginia Board for People with Disabilities
701 Department of Corrections	799 Department of Corrections
702 Department for the Blind and Vision Impaired	702 Department for the Blind and Vision Impaired
703 Central State Hospital	792 Mental Health Treatment Centers
704 Eastern State Hospital	792 Mental Health Treatment Centers
705 Southwestern Virginia Mental Health Institute	792 Mental Health Treatment Centers
706 Western State Hospital	792 Mental Health Treatment Centers
707 Central Virginia Training Center	793 Intellectual Disabilities Training Centers
708 Dejarnette Center	792 Mental Health Treatment Centers
709 Powhatan Correctional Center	799 Department of Corrections
711 Virginia Correctional Enterprises	799 Department of Corrections
716 Correctional Center for Women	799 Department of Corrections
717 Southhampton Correctional Center	799 Department of Corrections
718 Bland Correctional Center	799 Department of Corrections
719 James River Correctional Center	799 Department of Corrections
720 Department of Behavioral Health and Developmental Services	720 Department of Behavioral Health and Developmental Services
721 Powhatan Recep & Class Center	799 Department of Corrections
723 Southeastern Virginia Training Center	793 Intellectual Disabilities Training Centers
724 Catawba Hospital	792 Mental Health Treatment Centers
725 Northern Virginia Training Center	793 Intellectual Disabilities Training Centers
726 Southside Virginia Training Center	793 Intellectual Disabilities Training Centers
728 Northern Virginia Mental Health Institute	792 Mental Health Treatment Centers
729 Piedmont Geriatric Hospital	792 Mental Health Treatment Centers
730 Brunswick Correctional Center	799 Department of Corrections
733 Sussex I Correctional Center	799 Department of Corrections
737 St. Brides Correctional Center	799 Department of Corrections
738 Southwestern Virginia Training Center	793 Intellectual Disabilities Training Centers
739 Southern Virginia Mental Health Insititute	792 Mental Health Treatment Centers
742 Dept of Corrections - Employee Relations Training Unit	799 Department of Corrections
743 Fluvanna Women's Correctional Center	799 Department of Corrections
744 Mecklenburg Correctional Center	799 Department of Corrections
745 Nottoway Correctional Center	799 Department of Corrections
747 Marion Correctional Treatment Center	799 Department of Corrections
748 Hiram W. Davis Medical Center	793 Intellectual Disabilities Training Centers
749 Buckingham Correctional Center	799 Department of Corrections
750 Department of Correctional Education	750 Department of Correctional Education
751 Department for the Deaf and Hard-of-Hearing	751 Department for the Deaf and Hard-of-Hearing
752 Deep Meadow Correctional Center	799 Department of Corrections
753 Deerfield Correctional Center	799 Department of Corrections
754 Augusta Correctional Center	799 Department of Corrections

**COMMONWEALTH OF VIRGINIA  
SELF INSURANCE FUND**

Exhibit 6

**SUMMARY OF COMBINED AGENCY CODES**

<b>GIVEN AGENCY:</b>	<b>ROLLED INTO:</b>
756 Dept of Corrections - Division of Field Operations	799 Department of Corrections
757 Western Regional Field Units	799 Department of Corrections
760 Central Regional Field Units	799 Department of Corrections
761 Eastern Regional Field Units	799 Department of Corrections
765 Department of Social Services	765 Department of Social Services
766 Virginia Parole Board	766 Virginia Parole Board
767 Dept of Corrections - Division of Community Corrections	799 Department of Corrections
768 Keen Mountain Correctional Center	799 Department of Corrections
769 Greensville Correctional Center	799 Department of Corrections
770 Dillwyn Correctional Center	799 Department of Corrections
771 Indian Creek Correctional Center	799 Department of Corrections
772 Haynesville Correctional Center	799 Department of Corrections
773 Coffeewood Correctional Center	799 Department of Corrections
774 Luenburg Correctional Center	799 Department of Corrections
777 Department of Juvenile Justice	777 Department of Juvenile Justice
778 Department of Forensic Science	778 Department of Forensic Science
786 Culpeper Correctional Facility for Women	799 Department of Corrections
792 Mental Health Treatment Centers	792 Mental Health Treatment Centers
793 Intellectual Disabilities Training Centers	793 Intellectual Disabilities Training Centers
794 Virginia Center for Behavioral Rehabilitation	794 Virginia Center for Behavioral Rehabilitation
795 Division of Institutions	799 Department of Corrections
799 Department of Corrections	799 Department of Corrections
820 Capitol Square Preservation Council	820 Capitol Square Preservation Council
834 Virginia Freedom of Information Advisory Council	834 Virginia Freedom of Information Advisory Council
839 Virginia Commission on Youth	839 Virginia Commission on Youth
840 Virginia Housing Study Commission	840 Virginia Housing Study Commission
841 Department of Aviation	841 Department of Aviation
842 Chesapeake Bay Commission	842 Chesapeake Bay Commission
844 Joint Commission on Health Care	844 Joint Commission on Health Care
847 Joint Commission on Technology and Science	847 Joint Commission on Technology and Science
848 Indigent Defense Commission	848 Indigent Defense Commission
859 Virginia Sesquicentennial of the American Civil War Commission	859 Virginia Sesquicentennial of the American Civil War Commission
876 Virginia Conflict of Interest and Ethics Advisory Council	876 Virginia Conflict of Interest and Ethics Advisory Council
912 Department of Veterans Services	912 Department of Veterans Services
916 Governor's Employment & Training Dept	916 Governor's Employment & Training Dept
921 Institute for Organizational Contributions	921 Institute for Organizational Contributions
934 Innovative Technology Authority	934 Innovative Technology Authority
937 Southern Virginia Higher Education Center	937 Southern Virginia Higher Education Center
938 New College Institute	938 New College Institute
942 Virginia Museum of Natural History	942 Virginia Museum of Natural History
948 Southwest Virginia Higher Education Center	948 Southwest Virginia Higher Education Center
957 Commonwealth's Attorneys' Services Council	957 Commonwealth's Attorneys' Services Council
960 Department of Fire Programs	960 Department of Fire Programs
961 Division of Capitol Police	961 Division of Capitol Police
962 Department of Employment Dispute Resolution	129 Department of Human Resource Management
999 Department of Alcoholic Beverage Control	999 Department of Alcoholic Beverage Control

# **Accounting Projections**

**COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF HUMAN RESOURCE MANAGEMENT  
WORKERS' COMPENSATION SERVICES  
SELF INSURANCE FUND  
REVIEW AS OF 6/30/16**

**ACCOUNTING PROJECTIONS WITH THE CASHFLOW PREMIUM  
WORKERS' COMPENSATION**

	FISCAL YEARS ENDING					
	2016	2017	2018	2019	2020	2021
1. FUND BALANCE (BEGINNING OF YEAR)	34,187	33,704	36,817	36,817	36,817	36,817
2. PREMIUM	79,346	81,293	80,653	82,746	84,686	86,373
2a. COMMONWEALTH AGENCIES	78,967	80,431	79,907	81,973	83,885	85,543
2b. VCUHA EFFECTIVE 2002	379	862	745	774	801	830
3. NET CASH TRANSFERRED OUT	508	0	0	0	0	0
TRANSFER OF RESERVE	0	0	0	0	0	0
TRANSFER FROM W/C	0	0	0	0	0	0
4. LOSS PAYMENTS	65,246	64,928	67,065	68,812	70,394	71,713
4a. PAYMENTS ON CURRENT ACCIDENT YEAR	10,834	10,363	10,343	10,323	10,305	10,287
4b. PAYMENTS ON ALL PRIOR ACCIDENT YEARS	54,412	54,565	56,722	58,488	60,089	61,426
5. PROGRAM EXPENSES	13,370	13,386	13,721	14,064	14,416	14,776
6. ADMINISTRATIVE EXPENSES	845	906	924	942	961	980
7. INVESTMENT INCOME	139	1,040	1,057	1,072	1,085	1,096
8. FUND BALANCE (END OF YEAR)	33,704	36,817	36,817	36,817	36,817	36,817
<b>REQUIRED RESERVE</b>						
9. UNDISCOUNTED	969,623	1,003,762	1,035,628	1,065,625	1,093,929	1,120,819
9a. COMMONWEALTH AGENCIES	937,508	972,431	1,004,975	1,035,674	1,064,707	1,092,352
9b. VCUHA	32,115	31,331	30,654	29,950	29,222	28,467
10. DISCOUNTED	781,809	809,626	835,543	859,939	882,971	904,899
10a. COMMONWEALTH AGENCIES	762,551	790,585	816,619	841,161	864,369	886,505
10b. VCUHA	19,258	19,040	18,924	18,778	18,602	18,394
<b>FUND POSITION</b>						
11. UNDISCOUNTED	(935,919)	(966,945)	(998,811)	(1,028,807)	(1,057,112)	(1,084,002)
12. DISCOUNTED	(748,105)	(772,808)	(798,725)	(823,121)	(846,153)	(868,081)

- NOTE: (1) PRIOR YEAR END FUND BALANCE EXCEPT THE BALANCE FOR 6/30/2016 PROVIDED BY DHRM.  
(2) 2016 - 2017 FROM DHRM, 2018 - 2021 ARE CASHFLOW.  
VCUHA PREMIUMS FOR 2017-2021 EQUAL ESTIMATED LOSS PAYMENTS PLUS 10% ADMINISTRATIVE FEES FROM OUR ANALYSIS AS OF JUNE 30, 2016.  
(3) FROM DHRM - A NEGATIVE NUMBER REPRESENTS CASH TRANSFERRED IN.  
(4) 2016 BASED ON DATA PROVIDED BY DHRM; 2017 THROUGH 2021 FROM EXH. WC TOTAL-5.  
(5), (6) FROM DHRM  
(7)  $1.38\% \times (\text{ROW (1)} + \text{ROW (2)} - \text{ROW (3)} - (\text{ROW (4)} \times 5) - (\text{ROW (5)} \times 5) - (\text{ROW (6)} \times 5))$ ; EXCEPT 2016 PROVIDED BY DHRM.  
(8)  $\text{ROW (1)} + \text{ROW (2)} - \text{ROW (3)} - \text{ROW (4)} - \text{ROW (5)} - \text{ROW (6)} + \text{ROW (7)}$ .  
(9), (10) REQUIRED RESERVES ARE EXPECTED VALUE PROJECTIONS FROM EXH. WC TOTAL-3 AND WC TOTAL-4; VCUHA FROM SEPARATE ANALYSIS AS OF JUNE 30, 2016.  
(11)  $\text{ROW (8)} - \text{ROW (9)}$   
(12)  $\text{ROW (8)} - \text{ROW (10)}$   
DOLLARS ARE IN THOUSANDS.  
\* ESTIMATES EXCLUDE VCUHA ACCIDENTS OCCURRING ON OR AFTER 7/1/2001; EFFECTIVE 7/1/2001, VCUHA IS NO LONGER A STATE AGENCY.

**COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF HUMAN RESOURCE MANAGEMENT  
WORKERS' COMPENSATION SERVICES  
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**ACCOUNTING PROJECTIONS WITH CASHFLOW PREMIUM PLUS ONE YEAR'S CASHFLOW  
WORKERS' COMPENSATION**

	FISCAL YEARS ENDING					
	2016	2017	2018	2019	2020	2021
1. FUND BALANCE (BEGINNING OF YEAR)	34,187	33,704	36,817	82,104	84,021	85,659
2. PREMIUM	79,346	81,293	125,323	84,021	85,659	89,261
2a. COMMONWEALTH AGENCIES	78,967	80,431	124,577	83,248	84,858	88,431
2b. VCUHA EFFECTIVE 2002	379	862	745	774	801	830
3. NET CASH TRANSFERRED OUT	508	0	0	0	0	0
TRANSFER OF RESERVE	0	0	0	0	0	0
TRANSFER FROM W/C	0	0	0	0	0	0
4. LOSS PAYMENTS	65,246	64,928	67,065	68,812	70,394	71,713
4a. PAYMENTS ON CURRENT ACCIDENT YEAR	10,834	10,363	10,343	10,323	10,305	10,287
4b. PAYMENTS ON ALL PRIOR ACCIDENT YEARS	54,412	54,565	56,722	58,488	60,089	61,426
5. PROGRAM EXPENSES	13,370	13,386	13,721	14,064	14,416	14,776
6. ADMINISTRATIVE EXPENSES	845	906	924	942	961	980
7. INVESTMENT INCOME	139	1,040	1,674	1,714	1,750	1,810
8. FUND BALANCE (END OF YEAR)	33,704	36,817	82,104	84,021	85,659	89,261
<b>REQUIRED RESERVE</b>						
9. UNDISCOUNTED	969,623	1,003,762	1,035,628	1,065,625	1,093,929	1,120,819
9a. COMMONWEALTH AGENCIES	937,508	972,431	1,004,975	1,035,674	1,064,707	1,092,352
9b. VCUHA	32,115	31,331	30,654	29,950	29,222	28,467
10. DISCOUNTED	781,809	809,626	835,543	859,939	882,971	904,899
10a. COMMONWEALTH AGENCIES	762,551	790,585	816,619	841,161	864,369	886,505
10b. VCUHA	19,258	19,040	18,924	18,778	18,602	18,394
<b>FUND POSITION</b>						
11. UNDISCOUNTED	(935,919)	(966,945)	(953,524)	(981,603)	(1,008,270)	(1,031,558)
12. DISCOUNTED	(748,105)	(772,808)	(753,439)	(775,917)	(797,312)	(815,638)

- NOTE: (1) PRIOR YEAR END FUND BALANCE EXCEPT THE BALANCE FOR 6/30/2016 PROVIDED BY DHRM.  
(2) 2016 - 2017 FROM DHRM, 2018 THROUGH 2021 PRODUCE AN ENDING FUND BALANCE EQUAL TO THE FOLLOWING YEAR'S ESTIMATED CASH FLOW.  
VCUHA PREMIUMS FOR 2017-2021 EQUAL ESTIMATED LOSS PAYMENTS PLUS 10% ADMINISTRATIVE FEES FROM OUR ANALYSIS AS OF JUNE 30, 2016.  
(3) FROM DHRM - A NEGATIVE NUMBER REPRESENTS CASH TRANSFERRED IN.  
(4) 2016 BASED ON DATA PROVIDED BY DHRM; 2017 THROUGH 2021 FROM EXH. WC TOTAL-5.  
(5), (6) FROM DHRM  
(7)  $1.38\% \times (\text{ROW } (1)+\text{ROW } (2)-\text{ROW } (3)-(\text{ROW } (4) \times .5)-(\text{ROW } (5) \times .5)-(\text{ROW } (6) \times .5))$ ; EXCEPT 2016 PROVIDED BY DHRM.  
(8)  $\text{ROW } (1)+\text{ROW } (2)-\text{ROW } (3)-\text{ROW } (4)-\text{ROW } (5)-\text{ROW } (6)+\text{ROW } (7)$ .  
(9), (10) REQUIRED RESERVES ARE EXPECTED VALUE PROJECTIONS FROM EXH. WC TOTAL-3 AND WC TOTAL-4; VCUHA FROM SEPARATE ANALYSIS AS OF JUNE 30, 2016.  
(11)  $\text{ROW } (8)-\text{ROW } (9)$   
(12)  $\text{ROW } (8)-\text{ROW } (10)$   
DOLLARS ARE IN THOUSANDS.  
\* ESTIMATES EXCLUDE VCUHA ACCIDENTS OCCURRING ON OR AFTER 7/1/2001; EFFECTIVE 7/1/2001, VCUHA IS NO LONGER A STATE AGENCY.



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**ACCOUNTING PROJECTIONS WITH THE UNDISCOUNTED ACTUARIAL PREMIUM  
WORKERS' COMPENSATION**

	FISCAL YEARS ENDING					
	2016	2017	2018	2019	2020	2021
1. FUND BALANCE (BEGINNING OF YEAR)	34,187	33,704	36,817	70,882	103,562	135,017
2. PREMIUM	79,346	81,293	114,254	114,518	114,804	115,114
2a. COMMONWEALTH AGENCIES	78,967	80,431	113,508	113,744	114,003	114,284
2b. VCUHA EFFECTIVE 2002	379	862	745	774	801	830
3. NET CASH TRANSFERRED OUT	508	0	0	0	0	0
TRANSFER OF RESERVE	0	0	0	0	0	0
TRANSFER FROM W/C	0	0	0	0	0	0
4. LOSS PAYMENTS	65,246	64,928	67,065	68,812	70,394	71,713
4a. PAYMENTS ON CURRENT ACCIDENT YEAR	10,834	10,363	10,343	10,323	10,305	10,287
4b. PAYMENTS ON ALL PRIOR ACCIDENT YEARS	54,412	54,565	56,722	58,488	60,089	61,426
5. PROGRAM EXPENSES	13,370	13,386	13,721	14,064	14,416	14,776
6. ADMINISTRATIVE EXPENSES	845	906	924	942	961	980
7. INVESTMENT INCOME	139	1,040	1,521	1,980	2,422	2,848
8. FUND BALANCE (END OF YEAR)	33,704	36,817	70,882	103,562	135,017	165,510
<b>REQUIRED RESERVE</b>						
9. UNDISCOUNTED	969,623	1,003,762	1,035,628	1,065,625	1,093,929	1,120,819
9a. COMMONWEALTH AGENCIES	937,508	972,431	1,004,975	1,035,674	1,064,707	1,092,352
9b. VCUHA	32,115	31,331	30,654	29,950	29,222	28,467
10. DISCOUNTED	781,809	809,626	835,543	859,939	882,971	904,899
10a. COMMONWEALTH AGENCIES	762,551	790,585	816,619	841,161	864,369	886,505
10b. VCUHA	19,258	19,040	18,924	18,778	18,602	18,394
<b>FUND POSITION</b>						
11. UNDISCOUNTED	(935,919)	(966,945)	(964,746)	(962,062)	(958,912)	(955,309)
12. DISCOUNTED	(748,105)	(772,808)	(764,660)	(756,376)	(747,954)	(739,389)

- NOTE: (1) PRIOR YEAR END FUND BALANCE EXCEPT THE BALANCE FOR 6/30/2016 PROVIDED BY DHRM.  
(2) 2016 - 2017 FROM DHRM, 2018 AND FORWARD BASED ON PROJECTIONS OF ULTIMATE LOSSES FROM WC TOTAL-2 PLUS ESTIMATED VCUHA LOSS PAYMENTS AND PROGRAM AND ADMINISTRATIVE EXPENSES IN ROWS 5 AND 6.  
VCUHA PREMIUMS FOR 2017-2021 EQUAL ESTIMATED LOSS PAYMENTS PLUS 10% ADMINISTRATIVE FEES FROM OUR ANALYSIS AS OF JUNE 30, 2016.  
(3) FROM DHRM - A NEGATIVE NUMBER REPRESENTS CASH TRANSFERRED IN.  
(4) 2016 BASED ON DATA PROVIDED BY DHRM; 2017 THROUGH 2021 FROM EXH. WC TOTAL-5.  
(5), (6) FROM DHRM  
(7)  $1.38\% \times (\text{ROW (1)} + \text{ROW (2)} - \text{ROW (3)} - (\text{ROW (4)} \times 5) - (\text{ROW (5)} \times 5) - (\text{ROW (6)} \times 5))$ ; EXCEPT 2016 PROVIDED BY DHRM.  
(8)  $\text{ROW (1)} + \text{ROW (2)} - \text{ROW (3)} - \text{ROW (4)} - \text{ROW (5)} - \text{ROW (6)} + \text{ROW (7)}$ .  
(9), (10) REQUIRED RESERVES ARE EXPECTED VALUE PROJECTIONS FROM EXH. WC TOTAL-3 AND WC TOTAL-4; VCUHA FROM SEPARATE ANALYSIS AS OF JUNE 30, 2016.  
(11)  $\text{ROW (8)} - \text{ROW (9)}$   
(12)  $\text{ROW (8)} - \text{ROW (10)}$   
DOLLARS ARE IN THOUSANDS.  
\* ESTIMATES EXCLUDE VCUHA ACCIDENTS OCCURRING ON OR AFTER 7/1/2001; EFFECTIVE 7/1/2001, VCUHA IS NO LONGER A STATE AGENCY.

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**ACCOUNTING PROJECTIONS WITH THE DISCOUNTED ACTUARIAL PREMIUM  
WORKERS' COMPENSATION**

	FISCAL YEARS ENDING					
	2016	2017	2018	2019	2020	2021
1. FUND BALANCE (BEGINNING OF YEAR)	34,187	33,704	36,817	52,755	67,059	79,886
2. PREMIUM	79,346	81,293	96,373	96,639	96,927	97,237
2a. COMMONWEALTH AGENCIES	78,967	80,431	95,627	95,866	96,126	96,407
2b. VCUHA EFFECTIVE 2002	379	862	745	774	801	830
3. NET CASH TRANSFERRED OUT	508	0	0	0	0	0
TRANSFER OF RESERVE	0	0	0	0	0	0
TRANSFER FROM W/C	0	0	0	0	0	0
4. LOSS PAYMENTS	65,246	64,928	67,065	68,812	70,394	71,713
4a. PAYMENTS ON CURRENT ACCIDENT YEAR	10,834	10,363	10,343	10,323	10,305	10,287
4b. PAYMENTS ON ALL PRIOR ACCIDENT YEARS	54,412	54,565	56,722	58,488	60,089	61,426
5. PROGRAM EXPENSES	13,370	13,386	13,721	14,064	14,416	14,776
6. ADMINISTRATIVE EXPENSES	845	906	924	942	961	980
7. INVESTMENT INCOME	139	1,040	1,274	1,483	1,671	1,841
8. FUND BALANCE (END OF YEAR)	33,704	36,817	52,755	67,059	79,886	91,495
<b>REQUIRED RESERVE</b>						
9. UNDISCOUNTED	969,623	1,003,762	1,035,628	1,065,625	1,093,929	1,120,819
9a. COMMONWEALTH AGENCIES	937,508	972,431	1,004,975	1,035,674	1,064,707	1,092,352
9b. VCUHA	32,115	31,331	30,654	29,950	29,222	28,467
10. DISCOUNTED	781,809	809,626	835,543	859,939	882,971	904,899
10a. COMMONWEALTH AGENCIES	762,551	790,585	816,619	841,161	864,369	886,505
10b. VCUHA	19,258	19,040	18,924	18,778	18,602	18,394
<b>FUND POSITION</b>						
11. UNDISCOUNTED	(935,919)	(966,945)	(982,874)	(998,565)	(1,014,043)	(1,029,324)
12. DISCOUNTED	(748,105)	(772,808)	(782,788)	(792,879)	(803,085)	(813,404)

- NOTE: (1) PRIOR YEAR END FUND BALANCE EXCEPT THE BALANCE FOR 6/30/2016 PROVIDED BY DHRM.  
(2) 2016 - 2017 FROM DHRM, 2018 AND FORWARD BASED ON PROJECTIONS OF ULTIMATE LOSSES FROM WC TOTAL-2 PLUS ESTIMATED VCUHA  
VCUHA PREMIUMS FOR 2017-2021 EQUAL ESTIMATED LOSS PAYMENTS PLUS 10% ADMINISTRATIVE FEES FROM OUR ANALYSIS AS OF JUNE 30, 2016.  
(3) FROM DHRM - A NEGATIVE NUMBER REPRESENTS CASH TRANSFERRED IN.  
(4) 2016 BASED ON DATA PROVIDED BY DHRM; 2017 THROUGH 2021 FROM EXH. WC TOTAL-5.  
(5), (6) FROM DHRM  
(7)  $1.38\% \times (\text{ROW (1)} + \text{ROW (2)} - \text{ROW (3)} - (\text{ROW (4)} \times .5) - (\text{ROW (5)} \times .5) - (\text{ROW (6)} \times .5))$ ; EXCEPT 2016 PROVIDED BY DHRM.  
(8)  $\text{ROW (1)} + \text{ROW (2)} - \text{ROW (3)} - \text{ROW (4)} - \text{ROW (5)} - \text{ROW (6)} + \text{ROW (7)}$ .  
(9), (10) REQUIRED RESERVES ARE EXPECTED VALUE PROJECTIONS FROM EXH. WC TOTAL-3 AND WC TOTAL-4; VCUHA FROM SEPARATE ANALYSIS AS OF JUNE 30, 2016.  
(11)  $\text{ROW (8)} - \text{ROW (9)}$   
(12)  $\text{ROW (8)} - \text{ROW (10)}$   
DOLLARS ARE IN THOUSANDS.  
\* ESTIMATES EXCLUDE VCUHA ACCIDENTS OCCURRING ON OR AFTER 7/1/2001; EFFECTIVE 7/1/2001, VCUHA IS NO LONGER A STATE AGENCY.

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**ACCOUNTING PROJECTIONS WITH OLIVER WYMAN'S RECOMMENDED FUNDING  
WORKERS' COMPENSATION**

	FISCAL YEARS ENDING					
	2016	2017	2018	2019	2020	2021
1. FUND BALANCE (BEGINNING OF YEAR)	34,187	33,704	36,817	1,035,628	1,065,625	1,093,930
2. PREMIUM	79,346	81,293	1,065,867	98,739	98,601	98,507
2a. COMMONWEALTH AGENCIES	78,967	80,431	1,065,122	97,965	97,800	97,677
2b. VCUHA EFFECTIVE 2002	379	862	745	774	801	830
3. NET CASH TRANSFERRED OUT	508	0	0	0	0	0
TRANSFER OF RESERVE	0	0	0	0	0	0
TRANSFER FROM W/C	0	0	0	0	0	0
4. LOSS PAYMENTS	65,246	64,928	67,065	68,812	70,394	71,713
4a. PAYMENTS ON CURRENT ACCIDENT YEAR	10,834	10,363	10,343	10,323	10,305	10,287
4b. PAYMENTS ON ALL PRIOR ACCIDENT YEARS	54,412	54,565	56,722	58,488	60,089	61,426
5. PROGRAM EXPENSES	13,370	13,386	13,721	14,064	14,416	14,776
6. ADMINISTRATIVE EXPENSES	845	906	924	942	961	980
7. INVESTMENT INCOME	139	1,040	14,653	15,076	15,474	15,852
8. FUND BALANCE (END OF YEAR)	33,704	36,817	1,035,628	1,065,625	1,093,930	1,120,819
<b>REQUIRED RESERVE</b>						
9. UNDISCOUNTED	969,623	1,003,762	1,035,628	1,065,625	1,093,929	1,120,819
9a. COMMONWEALTH AGENCIES	937,508	972,431	1,004,975	1,035,674	1,064,707	1,092,352
9b. VCUHA	32,115	31,331	30,654	29,950	29,222	28,467
10. DISCOUNTED	781,809	809,626	835,543	859,939	882,971	904,899
10a. COMMONWEALTH AGENCIES	762,551	790,585	816,619	841,161	864,369	886,505
10b. VCUHA	19,258	19,040	18,924	18,778	18,602	18,394
<b>FUND POSITION</b>						
11. UNDISCOUNTED	(935,919)	(966,945)	0	0	0	0
12. DISCOUNTED	(748,105)	(772,808)	200,086	205,686	210,959	215,920

NOTE: (1) PRIOR YEAR END FUND BALANCE EXCEPT THE BALANCE FOR 6/30/2016 PROVIDED BY DHRM.  
(2) ACTUAL 2016 AND PROJECTED 2017 PREMIUMS; 2018 SET TO PRODUCE \$0 FUND POSITION.  
VCUHA PREMIUMS FOR 2017-2021 EQUAL ESTIMATED LOSS PAYMENTS PLUS 10% ADMINISTRATIVE FEES FROM OUR ANALYSIS AS OF JUNE 30, 2016.  
(3) FROM DHRM - A NEGATIVE NUMBER REPRESENTS CASH TRANSFERRED IN.  
(4) 2016 BASED ON DATA PROVIDED BY DHRM; 2017 THROUGH 2021 FROM EXH. WC TOTAL-5.  
(5), (6) FROM DHRM  
(7)  $1.38\% \times (\text{ROW (1)} + \text{ROW (2)} - \text{ROW (3)} - (\text{ROW (4)} \times 5) - (\text{ROW (5)} \times 5) - (\text{ROW (6)} \times 5))$ ; EXCEPT 2016 PROVIDED BY DHRM.  
(8)  $\text{ROW (1)} + \text{ROW (2)} - \text{ROW (3)} - \text{ROW (4)} - \text{ROW (5)} - \text{ROW (6)} + \text{ROW (7)}$ .  
(9), (10) REQUIRED RESERVES ARE EXPECTED VALUE PROJECTIONS FROM EXH. WC TOTAL-3 AND WC TOTAL-4; VCUHA FROM SEPARATE ANALYSIS AS OF JUNE 30, 2016.  
(11)  $\text{ROW (8)} - \text{ROW (9)}$   
(12)  $\text{ROW (8)} - \text{ROW (10)}$   
DOLLARS ARE IN THOUSANDS.  
\* ESTIMATES EXCLUDE VCUHA ACCIDENTS OCCURRING ON OR AFTER 7/1/2001; EFFECTIVE 7/1/2001, VCUHA IS NO LONGER A STATE AGENCY.

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**ACCOUNTING PROJECTIONS WITH 2018 PREMIUM EQUAL TO 2017 PREMIUM  
WORKERS' COMPENSATION**

	FISCAL YEARS ENDING					
	2016	2017	2018	2019	2020	2021
1. FUND BALANCE (BEGINNING OF YEAR)	34,187	33,704	36,817	37,348	37,348	37,348
2. PREMIUM	79,346	81,293	81,176	82,739	84,679	86,366
2a. COMMONWEALTH AGENCIES	78,967	80,431	80,431	81,966	83,877	85,535
2b. VCUHA EFFECTIVE 2002	379	862	745	774	801	830
3. NET CASH TRANSFERRED OUT	508	0	0	0	0	0
TRANSFER OF RESERVE	0	0	0	0	0	0
TRANSFER FROM W/C	0	0	0	0	0	0
4. LOSS PAYMENTS	65,246	64,928	67,065	68,812	70,394	71,713
4a. PAYMENTS ON CURRENT ACCIDENT YEAR	10,834	10,363	10,343	10,323	10,305	10,287
4b. PAYMENTS ON ALL PRIOR ACCIDENT YEARS	54,412	54,565	56,722	58,488	60,089	61,426
5. PROGRAM EXPENSES	13,370	13,386	13,721	14,064	14,416	14,776
6. ADMINISTRATIVE EXPENSES	845	906	924	942	961	980
7. INVESTMENT INCOME	139	1,040	1,065	1,079	1,092	1,104
8. FUND BALANCE (END OF YEAR)	33,704	36,817	37,348	37,348	37,348	37,348
<b>REQUIRED RESERVE</b>						
9. UNDISCOUNTED	969,623	1,003,762	1,035,628	1,065,625	1,093,929	1,120,819
9a. COMMONWEALTH AGENCIES	937,508	972,431	1,004,975	1,035,674	1,064,707	1,092,352
9b. VCUHA	32,115	31,331	30,654	29,950	29,222	28,467
10. DISCOUNTED	781,809	809,626	835,543	859,939	882,971	904,899
10a. COMMONWEALTH AGENCIES	762,551	790,585	816,619	841,161	864,369	886,505
10b. VCUHA	19,258	19,040	18,924	18,778	18,602	18,394
<b>FUND POSITION</b>						
11. UNDISCOUNTED	(935,919)	(966,945)	(998,280)	(1,028,276)	(1,056,581)	(1,083,471)
12. DISCOUNTED	(748,105)	(772,808)	(798,194)	(822,590)	(845,622)	(867,550)

NOTE: (1) PRIOR YEAR END FUND BALANCE EXCEPT THE BALANCE FOR 6/30/2016 PROVIDED BY DHRM.  
(2) 2016 - 2017 FROM DHRM, 2018=2017, 2019 - 2021 ARE CASHFLOW.  
VCUHA PREMIUMS FOR 2017-2021 EQUAL ESTIMATED LOSS PAYMENTS PLUS 10% ADMINISTRATIVE FEES FROM OUR ANALYSIS AS OF JUNE 30, 2016.  
(3) FROM DHRM - A NEGATIVE NUMBER REPRESENTS CASH TRANSFERRED IN.  
(4) 2016 BASED ON DATA PROVIDED BY DHRM; 2017 THROUGH 2021 FROM EXH. WC TOTAL-5.  
(5), (6) FROM DHRM  
(7)  $1.38\% \times (\text{ROW } (1)+\text{ROW } (2)-\text{ROW } (3)-(\text{ROW } (4) \times .5)-(\text{ROW } (5) \times .5)-(\text{ROW } (6) \times .5))$ ; EXCEPT 2016 PROVIDED BY DHRM.  
(8)  $\text{ROW } (1)+\text{ROW } (2)-\text{ROW } (3)-\text{ROW } (4)-\text{ROW } (5)-\text{ROW } (6)+\text{ROW } (7)$ .  
(9), (10) REQUIRED RESERVES ARE EXPECTED VALUE PROJECTIONS FROM EXH. WC TOTAL-3 AND WC TOTAL-4; VCUHA FROM SEPARATE ANALYSIS AS OF JUNE 30, 2016.  
(11)  $\text{ROW } (8)-\text{ROW } (9)$   
(12)  $\text{ROW } (8)-\text{ROW } (10)$   
DOLLARS ARE IN THOUSANDS.  
\* ESTIMATES EXCLUDE VCUHA ACCIDENTS OCCURRING ON OR AFTER 7/1/2001; EFFECTIVE 7/1/2001, VCUHA IS NO LONGER A STATE AGENCY.



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