



Certified Medicaid Planner™ (CMP™) Certification Exam Technical Report

2017-2018 Data

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Scope of Work

This report documents the procedures and results of the item and test analyses performed by Deborah L. Schnipke, PhD¹ from ACS Ventures, LLC for the Certified Medicaid Planner™ (CMP™) certification exam² on behalf of the Certified Medicaid Planner™ Governing Board for all candidates who tested from January 1, 2017 to December 31, 2018. Test, item, and option statistics were calculated for the 2017-2018 data, and this report summarizes those analyses.

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Executive Summary

In 2015, the Certified Medicaid Planner™ Governing Board began the process of updating the Certified Medicaid Planner™ certification exam forms, and the new forms (2017A and 2017B, named based on the first year of administration) began being administered on January 1, 2017. In 2017, eleven candidates took form 2017A and none took form 2017B. In 2018, thirty candidates took form 2017A and one took form 2017B. Form 2017B is primarily being used for repeat test takers at this point.

The CMP™ certification exam is only given in English and all items are objectively scored (they are all multiple-choice items scored right/wrong with no partial credit). Forms 2017A and 2017B have a passing standard of 65% and have 160 scored items. Candidates have 3 hours to take the exam.

Because of the small sample sizes, all results in this report should be considered preliminary. Table 1 provides a summary of the 2018 results, in the format for the NCCA Annual Report, calculated in Lertap (Nelson, 2014).

¹ Dr. Schnipke’s biographical information is included in Appendix A.

² General information about the CMP™ exam may be found at <https://cmpboard.org/>.



Table 1. Summary of the 2018 Analyses

	Form: 2017A	Form 2017B
Name of Credential:	Certified Medicaid Planner™	Certified Medicaid Planner™
Reporting Period (calendar year or specify testing period)	Jan 1 - Dec 31, 2018	Jan 1 - Dec 31, 2018
Form creation date (approx.)*	December 2015	December 2015
Total # of candidates tested on this exam form in reporting year:	30	1
% of Candidates Passing in this reporting year*	86.7%	100.0%
Passing Point (indicate metric used):	65%	65%
Average Score (indicate metric used):	70.9%	68.8%
Raw or Scaled Score?*	Percent	Percent
Standard Deviation (indicate metric used):	9.1%	N/A
Standard Error of Measurement (indicate metric used):	2.90%	N/A
Decision Consistency Estimate and Methodology (provide numeric value and identify the method):	Brennan-Kane index = .894	N/A
Reliability Estimate and Methodology (provide numeric value and identify the method):	Coefficient Alpha = .90	N/A
Total # of Items on Exam (fixed or variable length? If variable, provide range and maximum number of items):	160 items	160 items
Explanation / Specific details on stats (metric used, methods, etc as noted in parenthesis above)	All statistics calculated in Lertap.	All statistics calculated in Lertap.



Pass Rate History

Table 2 shows the test form, pass rate, reliability, and decision consistency history of the CMP™ exam since the program began.

Table 2. Pass rate history

Date of analysis	Testing Window	Test Form	N candidates	N passing	% passing	Reliability (alpha)	Decision Consistency	Software
1/2/2013	before 2013	Form 1	127	52	41%	0.96	0.95	Lertap
6/1/2014	Jan 1 - Dec 31 2013	Form 1	13	7	54%	0.98	0.97	Lertap
6/1/2015	Jan 1 - Dec 31 2014	Form 1	6	6	100%	0.51	N/A	Lertap
5/1/2016	Jan 1 - Dec 31 2015	Form 1	20	14	70%	0.80	0.83	BB Class
6/1/2017	Jan 1 - Dec 31 2016	Form 1	14	7	50%	0.97	0.96	Lertap
6/1/2018	Jan 1 - Dec 31 2017	2017A	11	10	91%	0.79	0.87	Lertap
3/9/2019	Jan 1 - Dec 31 2018	2017A&B ³	31	27	87%	0.90	0.89	Lertap
Total	Before 2013-2018	All	222	123	55%			

³ In 2018, 30 candidates took form 2017A and 1 took form 2017B. N candidates, N passing, and % passing are based on all 31 candidates. Reliability and decision consistency are based only on form 2071A.



Candidate Results

Table 3 shows the candidate score results on the percent correct metric, and Table 4 shows a comparison of scores for people who passed the exam and those who failed for Form 2017A. (The one candidate who took form 2017B had a passing score of 110 out of 160 (68.8%) and is excluded from the analyses in the remainder of the report. When more candidates take Form 2017B, analyses will be run.)

Table 3. Summary of Candidate Scores (Percentage Scores)

	2017	2018	Total
Form	2017A	2017A	2017A
Number of Candidates	11	30	41
Lowest score	60.6%	31.3%	31.3%
Highest score	80.0%	80.0%	80.0%
Median Score	75.0%	73.4%	73.8%
Mean Score	72.7%	70.9%	71.4%
Standard Deviation	5.9%	9.1%	8.4%
Standard Error of Measurement	2.7%	2.9%	2.9%

Table 4. Comparison of Scores for People who Passed and People who Failed Form 2017A

		Number of Candidates	Percent of Candidates	Mean Raw Score	Mean Percent Score	SD Raw Score	Minimum Raw Score	Median Raw Score	Maximum Raw Score
2017	People who Passed	10	90.91%	118.2	74%	7.6	104	121	128
	People who Failed	1	9.09%	97.0	61%	0.0	97	97	97
	Total	11		116.3	73%	9.5	97	120	128
2018	People who Passed	26	86.67%	117.6	74%	6.8	104	119	128
	People who Failed	4	13.33%	86.0	54%	20.8	50	98	99
	Total	30		113.4	71%	14.6	50	118	128
Total	People who Passed	36	87.80%	117.8	74%	7.0	104	120	128
	People who Failed	5	12.20%	88.2	55%	19.1	50	97	99
	Total	41		114.2	71%	13.5	50	118	128



Test Statistics

As shown in Table 5, for the 2017-2018 (Total) data, the exam has good (>.85) reliability and decision consistency (Brennan-Kane Index of Dependability and the Proportion of Consistent Placings) and reasonable measurement error. Conditional standard error of measurement (CSEM) is on the raw-score metric and is calculated via the Lord 1984 Method IV (using compound binomial method).

Table 5. Test Statistics for Form 2017A

	2017	2018	Total
Number of Candidates	11	30	41
Reliability (coefficient alpha)	.79	.90	.88
CSEM at the cut score (raw score metric)	4.66	4.94	4.91
Brennan-Kane Index of Dependability	.87	.89	.89
Proportion of Consistent Placings, p(0)	.92	.88	.88
Estimated number of incorrect classifications	0	3	4
Mean P Value	.73	.71	.71
Mean Point-Biserial Correlation Coefficient	.18	.26	.26



Item Statistics

Using the combined 2017-2018 data for form 2017A, Appendix B provides the item statistics for all 160 items, and Appendix C provides the option analysis for all 160 items. Table 6 shows the option statistics for items that should be reviewed to determine if the keys are correct. The last column of Table 6 indicates which options should be checked based on the data. In the accompanying password-protected Excel file, the item stem (questions without the options) is listed with summary item statistics on the “Item Stats” tab to help identify the items in the item banking system.

In Table 6:

- Item ID (first column)
- Option indicates what response the candidates selected. If no candidates selected an option, it does not appear in the table. “Missing” indicates candidates who did not respond to the item.
- Wt. is 1.00 for the key (correct answer) and 0.00 otherwise.
- N is the number of candidates who selected each option.
- P Value is the proportion of candidates who selected each option. It should generally be selected more often than the other options.
- PtBis is the point-biserial correlation for each option. It should be positive for the key, indicating that higher-ability candidates are more likely to choose the correct answer than lower-ability candidates. PtBis is usually negative for the other options, indicating higher-ability candidates are less likely to choose the incorrect options than lower-ability candidates.
- Ave Score is the average raw score (out of 160) of the candidates who selected each option. It should be highest for the key, indicating that high-ability candidates are choosing the correct answer.

Of particular note (highlighted in yellow in Table 6):

- On **item 1143**, only options A and D were selected by candidates. Neither option was scored as correct, but it appears that Option A is the key, based on the response data.
- On **item 1260**, only options B and C were selected by candidates. Neither option was scored as correct, but it appears that Option C is the key, based on the response data.
- On **item 1420**, A and “T” were selected by candidates. T appears to be the key, based on the response data, but A is the key in the system. T appears to be a coding error. Is this a true-false question that did not get imported correctly?

Table 6. Option statistics for potentially problematic or mis-keyed items on Form 2017A (underlining indicates the key in the test driver)

Item ID	Option	Wt.	N	P Value	PtBis	Ave Score	Notes
1130	<u>A</u>	<u>1.00</u>	<u>13</u>	<u>0.32</u>	<u>-0.12</u>	<u>112.46</u>	
	B	0.00	21	0.51	0.25	117.43	B looks like key
	C	0.00	6	0.15	-0.21	107.33	
	Missing	0.00	1	0.02	-0.06	109.00	

Item ID	Option	Wt.	N	P Value	PtBis	Ave Score	Notes
1134	A	0.00	9	0.22	-0.16	110.22	
	<u>B</u>	<u>1.00</u>	<u>4</u>	<u>0.10</u>	<u>-0.04</u>	<u>113.25</u>	
	C	0.00	28	0.68	0.15	115.57	C looks like key
1137	A	0.00	26	0.63	-0.11	113.00	Popular but low PtBis
	B	0.00	2	0.05	0.17	124.50	High PtBis
	<u>C</u>	<u>1.00</u>	<u>11</u>	<u>0.27</u>	<u>0.07</u>	<u>116.55</u>	Marked key
	D	0.00	2	0.05	-0.14	106.00	Clearly not key
1143	A	0.00	27	0.66	0.03	114.48	A looks like key
	D	0.00	11	0.27	0.03	114.91	
	<u>X</u>	<u>1.00</u>	<u>0</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	X = no key in data
	Missing	0.00	3	0.07	-0.11	108.67	
1153	<u>A</u>	<u>1.00</u>	<u>7</u>	<u>0.17</u>	<u>-0.13</u>	<u>111.14</u>	Neg PtBis for key
	B	0.00	4	0.10	0.06	116.75	
	C	0.00	19	0.46	0.00	114.16	Popular but 0 PtBis
	D	0.00	10	0.24	0.07	115.80	
	Missing	0.00	1	0.02	-0.06	109.00	
1155	<u>A</u>	<u>1.00</u>	<u>8</u>	<u>0.20</u>	<u>0.10</u>	<u>117.63</u>	Ok PtBis, but low p
	C	0.00	2	0.05	-0.67	74.50	
	D	0.00	29	0.71	0.27	116.52	D looks like key
	Missing	0.00	2	0.05	-0.14	106.00	
1156	A	0.00	22	0.54	0.25	117.32	A looks like key
	B	0.00	2	0.05	0.13	122.00	
	<u>C</u>	<u>1.00</u>	<u>9</u>	<u>0.22</u>	<u>0.06</u>	<u>116.56</u>	
	D	0.00	3	0.07	-0.39	95.33	
	Missing	0.00	5	0.12	-0.28	104.20	
1175	<u>A</u>	<u>1.00</u>	<u>7</u>	<u>0.17</u>	<u>0.05</u>	<u>116.57</u>	Very difficult
	B	0.00	34	0.83	-0.08	113.68	
1177	<u>A</u>	<u>1.00</u>	<u>10</u>	<u>0.24</u>	<u>0.06</u>	<u>116.30</u>	Very difficult
	B	0.00	13	0.32	-0.06	113.08	
	C	0.00	17	0.41	-0.01	114.06	
	Missing	0.00	1	0.02	-0.06	109.00	
1179	<u>A</u>	<u>1.00</u>	<u>11</u>	<u>0.27</u>	<u>0.20</u>	<u>119.27</u>	Very difficult
	C	0.00	5	0.12	-0.31	102.80	



Item ID	Option	Wt.	N	P Value	PtBis	Ave Score	Notes
	D	0.00	25	0.61	0.00	114.20	
1180	<u>A</u>	<u>1.00</u>	<u>16</u>	<u>0.39</u>	<u>-0.16</u>	<u>112.13</u>	Neg PtBis
	B	0.00	2	0.05	0.13	122.00	
	C	0.00	3	0.07	0.10	119.00	
	D	0.00	20	0.49	0.01	114.30	Popular, but low PtBis
1181	A	0.00	23	0.56	0.01	114.35	Popular, but low PtBis
	B	0.00	7	0.17	0.22	120.57	High PtBis
	C	0.00	1	0.02	-0.75	50.00	
	<u>D</u>	<u>1.00</u>	<u>8</u>	<u>0.20</u>	<u>0.12</u>	<u>118.13</u>	Very difficult
	Missing	0.00	2	0.05	-0.14	106.00	
1200	A	0.00	25	0.61	0.25	116.84	A looks like key
	B	0.00	3	0.07	-0.34	98.00	
	<u>C</u>	<u>1.00</u>	<u>10</u>	<u>0.24</u>	<u>-0.05</u>	<u>113.70</u>	
	D	0.00	2	0.05	-0.05	111.00	
	Missing	0.00	1	0.02	-0.08	107.00	
1201	A	0.00	1	0.02	-0.75	50.00	
	B	0.00	1	0.02	-0.10	106.00	
	C	0.00	37	0.90	0.39	115.92	C looks like key
	<u>D</u>	<u>1.00</u>	<u>2</u>	<u>0.05</u>	<u>0.05</u>	<u>118.00</u>	
1205	A	0.00	19	0.46	0.22	117.42	A looks like key
	B	0.00	13	0.32	-0.21	110.08	
	<u>C</u>	<u>1.00</u>	<u>7</u>	<u>0.17</u>	<u>0.01</u>	<u>115.29</u>	
	D	0.00	2	0.05	-0.14	106.00	
1235	A	0.00	15	0.37	0.05	115.00	Popular but low PtBis
	<u>B</u>	<u>1.00</u>	<u>2</u>	<u>0.05</u>	<u>0.15</u>	<u>124.00</u>	Very difficult
	C	0.00	9	0.22	-0.17	109.78	Clearly not key
	D	0.00	13	0.32	0.09	116.00	Popular but low PtBis
	Missing	0.00	2	0.05	-0.14	106.00	
1236	<u>A</u>	<u>1.00</u>	<u>9</u>	<u>0.22</u>	<u>-0.10</u>	<u>112.33</u>	
	C	0.00	21	0.51	0.40	119.38	C looks like key
	D	0.00	7	0.17	-0.36	103.57	
	Missing	0.00	4	0.10	-0.11	109.50	
1248	<u>A</u>	<u>1.00</u>	<u>7</u>	<u>0.17</u>	<u>0.17</u>	<u>120.14</u>	Very difficult



Item ID	Option	Wt.	N	P Value	PtBis	Ave Score	Notes
	B	0.00	1	0.02	-0.18	99.00	
	C	0.00	6	0.15	0.10	117.33	
	D	0.00	27	0.66	-0.17	112.48	Popular but neg PtBis
1260	B	0.00	1	0.02	0.00	114.00	
	C	0.00	38	0.93	0.24	115.08	C looks like key
	<u>X</u>	<u>1.00</u>	<u>0</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	X = no key in data
	Missing	0.00	2	0.05	-0.29	97.00	
1420	<u>A</u>	<u>1.00</u>	<u>11</u>	<u>0.27</u>	<u>-0.06</u>	<u>113.45</u>	
	T	0.00	27	0.66	0.06	114.74	T looks like key; data miscoded?
	Missing	0.00	3	0.07	-0.05	111.67	

Equating Policy

Until 2017, the CMP™ program used only one version of the test and, thus, no equating procedures were in effect. However, changes made in 2014 to the test development process call for using two alternate tests. Changes to the process also incorporated new item writing guidelines and appropriate psychometric analysis/review to ensure the different test versions are properly equated.

The Test Development Committee performed an item-writing workshop on October 22, 2013, to train item writers to draft new test items. The updates were completed in mid-2015.

In September 2015, a Standard Setting meeting was conducted using a modified-Angoff procedure. Each item in the item bank (i.e., all current and new items) were rated by subject matter experts (SMEs) to estimate the percentage of minimally qualified candidates who the SMEs believe will answer each item correctly. The Angoff estimates were used to balance the estimated difficulty of two new test forms (Forms 2017a and 2017b) in December 2015. The new forms were first used in January 2017.

As soon as sufficient data (approximately 50 candidates per form)⁴ are available, a concurrent Rasch analysis will be performed for Forms 2017a and 2017b, placing all of the items on a common scale. If the forms are found to be non-equivalent at the passing standard based on the Rasch measures (difficulty values), an analysis will be performed to determine if any candidates near the passing standard were unfairly classified as failing on the harder form. The CMP™ Governing Board will determine if any such candidates should be rescored. The passing standard will be translated to the Rasch scale and applied to the future test forms to ensure that the pass/fail decisions are equivalent.

⁴As of December 31, 2018, insufficient data are available (41 candidates on form 2017A and 1 candidate on form 2017B), thus equating analyses have not yet been performed.

Pretest items will be embedded in future forms so that candidate data can be collected for future operational items. Due to the low testing volumes (6-30 candidates per year in 2013-2018), two new forms will be created every 4 years, also with pretest items, and in preparation for new forms assembly, the current forms will be calibrated, anchoring the operational items to the base scale, placing the Rasch measures for the pretest items on that scale. New forms will be pre-equated (i.e., they built to have equivalent Rasch measures), and the passing standard will be applied to each form.

References

Nelson, L.R. (2014). Lertap 5, Version 10. Perth, Western Australia: Curtin University of Technology (lertap.com).

Appendix A. Deborah L. Schnipke, Ph.D.

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Dr. Deborah Schnipke is a Senior Psychometric Consultant at ACS Ventures, LLC. She has over 20 years of experience working in measurement, providing psychometric expertise for all aspects of the test development process in a variety of fields. Her work includes designing/redesigning testing programs, conducting job task analysis studies, developing test specifications, training item writers and reviewers, performing item and test analyses, assembling balanced test forms, conducting standard setting studies, scaling and equating test forms, investigating test security breaches, providing guidance and psychometric services for third-party accreditation, auditing testing programs for adherence to psychometric standards, and performing differential item functioning analyses, timing analyses, etc. She has conducted and published research on a variety of topics, including job task analyses, item selection algorithms, adaptive testing, response time analyses, differential item function, test security, test design, etc. She is invested in ensuring that exams are reliable, valid, and fair, and in compliance with industry standards, such as the AERA/APA/NCME standards and NCCA accreditation standards. She has experience as a speaker, reviewer, discussant, and author for major psychometric journals and conferences. Dr. Schnipke earned her Ph.D. in Quantitative Psychology from Johns Hopkins University.



Appendix B. Item Statistics

Table B contains the following information for all 160 items on Form 2017A:

- Item ID (first column)
- Percentage of candidates who selected each option (A, B, C, D, or T) or who did not respond (Missing)
- Difficulty: proportion of candidates who answered correctly (p value)
- Discrimination: point-biserial correlation (PtBis) between score on item (right/wrong) and test score
- Check Options: notes about options that should be reviewed to determine if there is a problem with the item

Table B. Item Statistics for Form 2017A

ItemID	A	B	C	D	T	Missing	Difficulty	Discrimination	Check Options
1099	20%	5%	10%	<u>56%</u>		10%	0.56	0.35	
1100	<u>71%</u>	5%	7%	12%		5%	0.71	0.45	
1101		<u>90%</u>	2%	7%			0.90	0.60	
1102		<u>98%</u>		2%			0.98	0.75	
1103		<u>32%</u>	56%			12%	0.32	0.16	
1104	2%		<u>85%</u>	12%			0.85	0.25	
1105	<u>98%</u>	2%					0.98	0.00	
1106		<u>93%</u>		2%		5%	0.93	0.55	
1107		<u>98%</u>		2%			0.98	0.75	
1108	<u>95%</u>	2%	2%				0.95	0.67	
1109	2%	<u>93%</u>		5%			0.93	0.52	
1110	10%		2%	<u>83%</u>		5%	0.83	0.30	
1111	<u>98%</u>	2%					0.98	0.18	
1112	10%	2%	<u>80%</u>	5%		2%	0.80	0.35	
1113	29%	<u>61%</u>		5%		5%	0.61	0.18	
1114		<u>71%</u>	7%	20%		2%	0.71	0.14	
1115		2%	24%	<u>71%</u>		2%	0.71	0.36	



ItemID	A	B	C	D	T	Missing	Difficulty	Discrimination	Check Options
1116		12%	12%	<u>76%</u>			0.76	- 0.05	
1117			<u>100%</u>				1.00	0.00	
1118	<u>95%</u>	2%	2%				0.95	0.59	
1119	37%	<u>51%</u>	5%	2%		5%	0.51	- 0.02	
1120		<u>98%</u>	2%				0.98	- 0.01	
1121		5%	2%	<u>93%</u>			0.93	0.18	
1122		<u>100%</u>					1.00	0.00	
1123	5%	10%	<u>83%</u>			2%	0.83	0.33	
1124	44%	<u>56%</u>					0.56	- 0.10	
1126	<u>37%</u>	7%	2%	51%		2%	0.37	0.34	
1127	<u>93%</u>		7%				0.93	- 0.11	
1128		<u>80%</u>	2%	10%		7%	0.80	0.37	
1129	5%	2%	<u>93%</u>				0.93	0.43	
1130	<u>32%</u>	51%	15%			2%	0.32	- 0.12	Option B?
1131	17%	5%	<u>68%</u>	10%			0.68	0.10	
1132		<u>100%</u>					1.00	0.00	
1133		5%	15%	<u>80%</u>			0.80	- 0.06	
1134	22%	<u>10%</u>	68%				0.10	- 0.04	Option C?
1135	<u>98%</u>	2%					0.98	0.18	
1136	<u>98%</u>		2%				0.98	0.75	
1137	63%	5%	<u>27%</u>	5%			0.27	0.07	Option A?
1138	<u>93%</u>	5%	2%				0.93	0.10	
1139	<u>98%</u>			2%			0.98	0.17	
1140		<u>100%</u>					1.00	0.00	
1141	2%	10%	<u>66%</u>	20%		2%	0.66	0.28	



ItemID	A	B	C	D	T	Missing	Difficulty	Discrimination	Check Options
1142		<u>98%</u>				2%	0.98	- 0.02	
1143	66%			27%		7%	0.00	0.00	Option A?
1144	<u>68%</u>	22%	2%	7%			0.68	0.10	
1145		2%	12%	<u>85%</u>			0.85	0.66	
1146	2%	20%	<u>68%</u>	2%		7%	0.68	0.53	
1147		5%	7%	<u>85%</u>		2%	0.85	- 0.07	
1148	<u>66%</u>	10%	24%				0.66	0.00	
1150	5%	12%	<u>76%</u>	7%			0.76	0.08	
1151	<u>85%</u>		15%				0.85	- 0.10	
1152	<u>93%</u>		2%			5%	0.93	0.22	
1153	<u>17%</u>	10%	46%	24%		2%	0.17	- 0.13	Option C?
1154	<u>59%</u>		39%	2%			0.59	0.23	
1155	<u>20%</u>		5%	71%		5%	0.20	0.10	Option D?
1156	54%	5%	<u>22%</u>	7%		12%	0.22	0.06	Option A?
1157		5%	<u>51%</u>	39%		5%	0.51	0.26	
1158	<u>63%</u>	12%	20%	2%		2%	0.63	0.43	
1159	<u>90%</u>		5%	2%		2%	0.90	0.54	
1160			12%	<u>88%</u>			0.88	0.53	
1161	<u>98%</u>	2%					0.98	0.75	
1162		10%	<u>88%</u>	2%			0.88	0.38	
1163	12%	<u>80%</u>	5%	2%			0.80	- 0.01	
1164			2%	<u>98%</u>			0.98	0.75	
1165	12%	<u>66%</u>	15%			7%	0.66	0.29	
1166			<u>46%</u>	49%		5%	0.46	0.16	
1167	10%		22%	<u>63%</u>		5%	0.63	- 0.01	



ItemID	A	B	C	D	T	Missing	Difficulty	Discrimination	Check Options
1168		<u>95%</u>	2%	2%			0.95	0.57	
1169	<u>68%</u>	10%	15%	7%			0.68	0.30	
1170		<u>78%</u>		17%		5%	0.78	0.07	
1171	5%	7%	<u>71%</u>	12%		5%	0.71	0.46	
1172		<u>85%</u>	2%	12%			0.85	0.56	
1173	5%	<u>68%</u>	2%	24%			0.68	-0.13	
1174	2%	2%	<u>95%</u>				0.95	-0.06	
1175	<u>17%</u>	83%					0.17	0.05	Option B?
1176	2%	<u>85%</u>	10%			2%	0.85	0.51	
1177	<u>24%</u>	32%	41%			2%	0.24	0.06	Check B&C
1178	7%	<u>80%</u>	5%	7%			0.80	0.45	
1179	<u>27%</u>		12%	61%			0.27	0.20	Option D?
1180	<u>39%</u>	5%	7%	49%			0.39	-0.16	Option D?
1181	56%	17%	2%	<u>20%</u>		5%	0.20	0.12	Option A?
1182			<u>98%</u>	2%			0.98	0.75	
1183	<u>83%</u>	5%	12%				0.83	0.17	
1184	<u>78%</u>	2%	15%	5%			0.78	0.45	
1185	2%	<u>85%</u>		7%		5%	0.85	0.22	
1186		<u>83%</u>	15%	2%			0.83	0.71	
1187	<u>68%</u>	2%	15%	5%		10%	0.68	0.40	
1188	<u>93%</u>	2%				5%	0.93	0.33	
1189	2%	5%	<u>93%</u>				0.93	0.49	
1190			<u>100%</u>				1.00	0.00	
1191	7%	<u>80%</u>		12%			0.80	0.51	
1192	29%	<u>68%</u>	2%				0.68	-0.26	

ItemID	A	B	C	D	T	Missing	Difficulty	Discrimination	Check Options
1193		5%	10%	<u>85%</u>			0.85	0.07	
1194	27%	10%	<u>61%</u>			2%	0.61	0.05	
1195	20%	<u>59%</u>	22%				0.59	0.48	
1196	15%	12%	<u>32%</u>	32%		10%	0.32	0.05	
1197		<u>95%</u>	2%	2%			0.95	0.59	
1198	5%		<u>85%</u>	7%		2%	0.85	0.24	
1199		22%	7%	<u>71%</u>			0.71	0.14	
1200	61%	7%	<u>24%</u>	5%		2%	0.24	-0.05	Option A?
1201	2%	2%	90%	<u>5%</u>			0.05	0.05	Option C?
1202	15%	5%	<u>41%</u>	32%		7%	0.41	0.20	
1203	7%	<u>76%</u>	2%	15%			0.76	-0.20	
1204	20%	15%	<u>56%</u>	5%		5%	0.56	-0.02	
1205	46%	32%	<u>17%</u>	5%			0.17	0.01	Option A?
1206	<u>78%</u>			22%			0.78	0.26	
1207	<u>93%</u>	7%					0.93	0.55	
1208	41%	<u>41%</u>	15%	2%			0.41	0.17	
1209		<u>98%</u>		2%			0.98	0.75	
1210	10%		<u>46%</u>	32%		12%	0.46	0.21	
1211	2%	<u>66%</u>	29%	2%			0.66	0.14	
1212	<u>61%</u>	2%	32%	2%		2%	0.61	0.03	
1213	10%	12%	<u>56%</u>	22%			0.56	0.18	
1214	7%	<u>90%</u>		2%			0.90	0.53	
1215		<u>93%</u>		7%			0.93	-0.09	
1216	5%	<u>66%</u>	22%	7%			0.66	0.30	
1217	20%	<u>71%</u>	5%	2%		2%	0.71	0.33	

ItemID	A	B	C	D	T	Missing	Difficulty	Discrimination	Check Options
1219		2%	34%	<u>63%</u>			0.63	0.12	
1220	20%	17%	<u>63%</u>				0.63	0.14	
1221		2%		<u>98%</u>			0.98	0.18	
1222	12%		5%	<u>83%</u>			0.83	0.57	
1223			10%	<u>90%</u>			0.90	0.14	
1224		7%		<u>93%</u>			0.93	0.03	
1225		10%	<u>88%</u>			2%	0.88	-0.05	
1226	2%	<u>98%</u>					0.98	0.75	
1227			<u>59%</u>	29%		12%	0.59	-0.17	
1228			<u>100%</u>				1.00	0.00	
1229		2%		<u>98%</u>			0.98	0.75	
1230	<u>93%</u>	5%	2%				0.93	-0.10	
1231	<u>76%</u>		10%			15%	0.76	0.06	
1232	2%	10%		<u>88%</u>			0.88	0.34	
1233	5%	5%		<u>90%</u>			0.90	0.55	
1234	10%		<u>85%</u>			5%	0.85	0.61	
1235	37%	<u>5%</u>	22%	32%		5%	0.05	0.15	Option A&D
1236	<u>22%</u>		51%	17%		10%	0.22	-0.10	Option C?
1237	2%	<u>90%</u>	7%				0.90	0.48	
1239		<u>98%</u>	2%				0.98	0.75	
1241	20%		5%	<u>76%</u>			0.76	0.11	
1242		<u>98%</u>	2%				0.98	0.75	
1243	<u>63%</u>		15%	17%		5%	0.63	0.11	
1244		2%	10%	<u>83%</u>		5%	0.83	0.43	
1245	<u>98%</u>	2%					0.98	0.75	



ItemID	A	B	C	D	T	Missing	Difficulty	Discrimination	Check Options
1246	24%	2%	<u>73%</u>				0.73	0.39	
1247	2%	29%	<u>68%</u>				0.68	0.19	
1248	<u>17%</u>	2%	15%	66%			0.17	0.17	Option D?
1249	5%		<u>46%</u>	49%			0.46	- 0.06	
1250	<u>78%</u>	10%	10%	2%			0.78	0.14	
1251	7%	7%	<u>68%</u>	7%		10%	0.68	0.15	
1252	<u>95%</u>	2%		2%			0.95	0.54	
1253	2%	<u>93%</u>	5%				0.93	0.53	
1254	<u>76%</u>	5%	5%	15%			0.76	0.38	
1255		<u>93%</u>	2%	5%			0.93	0.59	
1256	<u>39%</u>	56%		5%			0.39	0.13	
1257	15%	17%	<u>51%</u>	12%		5%	0.51	0.14	
1258	15%	<u>83%</u>		2%			0.83	0.27	
1259		<u>95%</u>	5%				0.95	- 0.15	
1260		2%	93%			5%	0.00	0.00	Option C?
1420	<u>27%</u>				66%	7%	0.27	- 0.06	Option T?
1421		10%	22%	<u>61%</u>		7%	0.61	0.19	
1424	10%	<u>44%</u>		22%		24%	0.44	0.23	



Appendix C. Option Statistics

Table C contains the following information for all 160 items on Form 2017A:

- Item ID (first column)
- Option indicates what response the candidates selected. If no candidates selected an option, it does not appear in the table
- Wt. is 1.00 for the key (correct answer) and 0.00 otherwise
- N is the number of candidates who selected each option
- P is the proportion of candidates who selected each option
- PtBis is the point-biserial correlation for each option
- Avg. is the average raw score (out of 160) of the candidates who selected each option

Table C. Option Statistics for Form 2017A

	option	wt.	n	p	PtBis	avg.
1099	A	0.00	8	0.20	-0.20	108.63
	B	0.00	2	0.05	-0.12	107.00
	C	0.00	4	0.10	0.02	115.00
	<u>D</u>	<u>1.00</u>	<u>23</u>	<u>0.56</u>	<u>0.35</u>	<u>118.78</u>
	Missing	0.00	4	0.10	-0.31	101.50
1100	option	wt.	n	p	PtBis	avg.
	<u>A</u>	<u>1.00</u>	<u>29</u>	<u>0.71</u>	<u>0.45</u>	<u>118.31</u>
	B	0.00	2	0.05	-0.13	106.50
	C	0.00	3	0.07	-0.42	94.00
	D	0.00	5	0.12	-0.05	112.20
Missing	0.00	2	0.05	-0.29	97.00	
1101	option	wt.	n	p	PtBis	avg.
	<u>B</u>	<u>1.00</u>	<u>37</u>	<u>0.90</u>	<u>0.60</u>	<u>116.89</u>
	C	0.00	1	0.02	-0.75	50.00
	D	0.00	3	0.07	-0.25	102.00
1102	option	wt.	n	p	PtBis	avg.
	<u>B</u>	<u>1.00</u>	<u>40</u>	<u>0.98</u>	<u>0.75</u>	<u>115.78</u>
	D	0.00	1	0.02	-0.75	50.00
1103	option	wt.	n	p	PtBis	avg.
	<u>B</u>	<u>1.00</u>	<u>13</u>	<u>0.32</u>	<u>0.16</u>	<u>118.00</u>
	C	0.00	23	0.56	-0.20	111.74
Missing	0.00	5	0.12	0.03	115.40	
1104	option	wt.	n	p	PtBis	avg.
	A	0.00	1	0.02	-0.75	50.00
	<u>C</u>	<u>1.00</u>	<u>35</u>	<u>0.85</u>	<u>0.25</u>	<u>115.71</u>
	D	0.00	5	0.12	0.06	116.20



1105	option	wt.	n	p	PtBis	avg.
	<u>A</u>	<u>1.00</u>	<u>40</u>	<u>0.98</u>	<u>0.00</u>	<u>114.20</u>
	B	0.00	1	0.02	-0.01	113.00
1106	option	wt.	n	p	PtBis	avg.
	<u>B</u>	<u>1.00</u>	<u>38</u>	<u>0.93</u>	<u>0.55</u>	<u>116.29</u>
	D	0.00	1	0.02	-0.75	50.00
	Missing	0.00	2	0.05	-0.14	106.00
1107	option	wt.	n	p	PtBis	avg.
	<u>B</u>	<u>1.00</u>	<u>40</u>	<u>0.98</u>	<u>0.75</u>	<u>115.78</u>
	D	0.00	1	0.02	-0.75	50.00
1108	option	wt.	n	p	PtBis	avg.
	<u>A</u>	<u>1.00</u>	<u>39</u>	<u>0.95</u>	<u>0.67</u>	<u>116.23</u>
	B	0.00	1	0.02	-0.75	50.00
	C	0.00	1	0.02	-0.19	98.00
1109	option	wt.	n	p	PtBis	avg.
	A	0.00	1	0.02	-0.75	50.00
	<u>B</u>	<u>1.00</u>	<u>38</u>	<u>0.93</u>	<u>0.52</u>	<u>116.21</u>
	D	0.00	2	0.05	-0.11	107.50
1110	option	wt.	n	p	PtBis	avg.
	A	0.00	4	0.10	-0.27	103.25
	C	0.00	1	0.02	-0.08	107.00
	<u>D</u>	<u>1.00</u>	<u>34</u>	<u>0.83</u>	<u>0.30</u>	<u>116.15</u>
	Missing	0.00	2	0.05	-0.14	106.00
1111	option	wt.	n	p	PtBis	avg.
	<u>A</u>	<u>1.00</u>	<u>40</u>	<u>0.98</u>	<u>0.18</u>	<u>114.58</u>
	B	0.00	1	0.02	-0.19	98.00
1112	option	wt.	n	p	PtBis	avg.
	A	0.00	4	0.10	-0.05	112.00
	B	0.00	1	0.02	-0.75	50.00
	<u>C</u>	<u>1.00</u>	<u>33</u>	<u>0.80</u>	<u>0.35</u>	<u>116.64</u>
	D	0.00	2	0.05	-0.03	112.50
	Missing	0.00	1	0.02	-0.06	109.00
1113	option	wt.	n	p	PtBis	avg.
	A	0.00	12	0.29	-0.06	112.83
	<u>B</u>	<u>1.00</u>	<u>25</u>	<u>0.61</u>	<u>0.18</u>	<u>116.48</u>
	D	0.00	2	0.05	-0.06	110.50
	Missing	0.00	2	0.05	-0.29	97.00
1114	option	wt.	n	p	PtBis	avg.
	<u>B</u>	<u>1.00</u>	<u>29</u>	<u>0.71</u>	<u>0.14</u>	<u>115.69</u>



	C	0.00	3	0.07	-0.46	92.33
	D	0.00	8	0.20	0.12	117.50
	Missing	0.00	1	0.02	-0.06	109.00
1115	option	wt.	n	p	PtBis	avg.
	B	0.00	1	0.02	-0.75	50.00
	C	0.00	10	0.24	-0.12	111.40
	<u>D</u>	<u>1.00</u>	<u>29</u>	<u>0.71</u>	<u>0.36</u>	<u>117.52</u>
	Missing	0.00	1	0.02	-0.06	109.00
1116	option	wt.	n	p	PtBis	avg.
	B	0.00	5	0.12	-0.04	112.60
	C	0.00	5	0.12	0.06	116.40
	<u>D</u>	<u>1.00</u>	<u>31</u>	<u>0.76</u>	<u>-0.05</u>	<u>114.06</u>
1117	option	wt.	n	p	PtBis	avg.
	<u>C</u>	<u>1.00</u>	<u>41</u>	<u>1.00</u>	<u>0.00</u>	<u>114.17</u>
1118	option	wt.	n	p	PtBis	avg.
	<u>A</u>	<u>1.00</u>	<u>39</u>	<u>0.95</u>	<u>0.59</u>	<u>116.00</u>
	B	0.00	1	0.02	-0.75	50.00
	C	0.00	1	0.02	-0.08	107.00
1119	option	wt.	n	p	PtBis	avg.
	A	0.00	15	0.37	0.22	118.07
	<u>B</u>	<u>1.00</u>	<u>21</u>	<u>0.51</u>	<u>-0.02</u>	<u>114.38</u>
	C	0.00	2	0.05	-0.11	107.50
	D	0.00	1	0.02	-0.18	99.00
	Missing	0.00	2	0.05	-0.29	97.00
1120	option	wt.	n	p	PtBis	avg.
	<u>B</u>	<u>1.00</u>	<u>40</u>	<u>0.98</u>	<u>-0.01</u>	<u>114.18</u>
	C	0.00	1	0.02	0.00	114.00
1121	option	wt.	n	p	PtBis	avg.
	B	0.00	2	0.05	-0.17	104.00
	C	0.00	1	0.02	-0.10	106.00
	<u>D</u>	<u>1.00</u>	<u>38</u>	<u>0.93</u>	<u>0.18</u>	<u>114.92</u>
1122	option	wt.	n	p	PtBis	avg.
	<u>B</u>	<u>1.00</u>	<u>41</u>	<u>1.00</u>	<u>0.00</u>	<u>114.17</u>
1123	option	wt.	n	p	PtBis	avg.
	A	0.00	2	0.05	0.07	118.50
	B	0.00	4	0.10	-0.51	93.25
	<u>C</u>	<u>1.00</u>	<u>34</u>	<u>0.83</u>	<u>0.33</u>	<u>116.35</u>
	Missing	0.00	1	0.02	0.01	115.00



1124	option	wt.	n	p	PtBis	avg.
	A	0.00	18	0.44	0.06	115.11
	<u>B</u>	<u>1.00</u>	<u>23</u>	<u>0.56</u>	<u>-0.10</u>	<u>113.43</u>
1126	option	wt.	n	p	PtBis	avg.
	<u>A</u>	<u>1.00</u>	<u>15</u>	<u>0.37</u>	<u>0.34</u>	<u>120.80</u>
	B	0.00	3	0.07	-0.37	96.67
	C	0.00	1	0.02	-0.18	99.00
	D	0.00	21	0.51	-0.10	112.90
	Missing	0.00	1	0.02	-0.06	109.00
1127	option	wt.	n	p	PtBis	avg.
	<u>A</u>	<u>1.00</u>	<u>38</u>	<u>0.93</u>	<u>-0.11</u>	<u>113.82</u>
	C	0.00	3	0.07	0.09	118.67
1128	option	wt.	n	p	PtBis	avg.
	<u>B</u>	<u>1.00</u>	<u>33</u>	<u>0.80</u>	<u>0.37</u>	<u>116.82</u>
	C	0.00	1	0.02	-0.75	50.00
	D	0.00	4	0.10	0.03	115.25
	Missing	0.00	3	0.07	-0.19	105.00
1129	option	wt.	n	p	PtBis	avg.
	A	0.00	2	0.05	0.00	114.00
	B	0.00	1	0.02	-0.75	50.00
	<u>C</u>	<u>1.00</u>	<u>38</u>	<u>0.93</u>	<u>0.43</u>	<u>115.87</u>
1130	option	wt.	n	p	PtBis	avg.
	<u>A</u>	<u>1.00</u>	<u>13</u>	<u>0.32</u>	<u>-0.12</u>	<u>112.46</u>
	B	0.00	21	0.51	0.25	117.43
	C	0.00	6	0.15	-0.21	107.33
	Missing	0.00	1	0.02	-0.06	109.00
1131	option	wt.	n	p	PtBis	avg.
	A	0.00	7	0.17	-0.14	110.14
	B	0.00	2	0.05	-0.14	106.00
	<u>C</u>	<u>1.00</u>	<u>28</u>	<u>0.68</u>	<u>0.10</u>	<u>115.39</u>
	D	0.00	4	0.10	0.06	116.75
1132	option	wt.	n	p	PtBis	avg.
	<u>B</u>	<u>1.00</u>	<u>41</u>	<u>1.00</u>	<u>0.00</u>	<u>114.17</u>
1133	option	wt.	n	p	PtBis	avg.
	B	0.00	2	0.05	0.04	116.50
	C	0.00	6	0.15	0.02	114.67
	<u>D</u>	<u>1.00</u>	<u>33</u>	<u>0.80</u>	<u>-0.06</u>	<u>113.94</u>
1134	option	wt.	n	p	PtBis	avg.
	A	0.00	9	0.22	-0.16	110.22



	<u>B</u>	<u>1.00</u>	<u>4</u>	<u>0.10</u>	<u>-0.04</u>	<u>113.25</u>
	C	0.00	28	0.68	0.15	115.57
1135	option	wt.	n	p	PtBis	avg.
	<u>A</u>	<u>1.00</u>	<u>40</u>	<u>0.98</u>	<u>0.18</u>	<u>114.58</u>
	B	0.00	1	0.02	-0.19	98.00
1136	option	wt.	n	p	PtBis	avg.
	<u>A</u>	<u>1.00</u>	<u>40</u>	<u>0.98</u>	<u>0.75</u>	<u>115.78</u>
	C	0.00	1	0.02	-0.75	50.00
1137	option	wt.	n	p	PtBis	avg.
	A	0.00	26	0.63	-0.11	113.00
	B	0.00	2	0.05	0.17	124.50
	<u>C</u>	<u>1.00</u>	<u>11</u>	<u>0.27</u>	<u>0.07</u>	<u>116.55</u>
	D	0.00	2	0.05	-0.14	106.00
1138	option	wt.	n	p	PtBis	avg.
	<u>A</u>	<u>1.00</u>	<u>38</u>	<u>0.93</u>	<u>0.10</u>	<u>114.61</u>
	B	0.00	2	0.05	0.00	114.00
	C	0.00	1	0.02	-0.19	98.00
1139	option	wt.	n	p	PtBis	avg.
	<u>A</u>	<u>1.00</u>	<u>40</u>	<u>0.98</u>	<u>0.17</u>	<u>114.55</u>
	D	0.00	1	0.02	-0.18	99.00
1140	option	wt.	n	p	PtBis	avg.
	<u>B</u>	<u>1.00</u>	<u>41</u>	<u>1.00</u>	<u>0.00</u>	<u>114.17</u>
1141	option	wt.	n	p	PtBis	avg.
	A	0.00	1	0.02	-0.19	98.00
	B	0.00	4	0.10	0.07	117.00
	<u>C</u>	<u>1.00</u>	<u>27</u>	<u>0.66</u>	<u>0.28</u>	<u>117.22</u>
	D	0.00	8	0.20	-0.33	105.13
	Missing	0.00	1	0.02	-0.06	109.00
1142	option	wt.	n	p	PtBis	avg.
	<u>B</u>	<u>1.00</u>	<u>40</u>	<u>0.98</u>	<u>-0.02</u>	<u>114.15</u>
	Missing	0.00	1	0.02	0.01	115.00
1143	option	wt.	n	p	PtBis	avg.
	A	0.00	27	0.66	0.03	114.48
	D	0.00	11	0.27	0.03	114.91
	<u>X</u>	<u>1.00</u>	<u>0</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	Missing	0.00	3	0.07	-0.11	108.67
1144	option	wt.	n	p	PtBis	avg.
	<u>A</u>	<u>1.00</u>	<u>28</u>	<u>0.68</u>	<u>0.10</u>	<u>115.39</u>



	B	0.00	9	0.22	-0.23	108.33
	C	0.00	1	0.02	0.08	121.00
	D	0.00	3	0.07	0.08	118.00
1145	option	wt.	n	p	PtBis	avg.
	B	0.00	1	0.02	-0.19	98.00
	C	0.00	5	0.12	-0.64	91.20
	<u>D</u>	<u>1.00</u>	<u>35</u>	<u>0.85</u>	<u>0.66</u>	<u>117.91</u>
1146	option	wt.	n	p	PtBis	avg.
	A	0.00	1	0.02	0.03	117.00
	B	0.00	8	0.20	-0.26	107.13
	<u>C</u>	<u>1.00</u>	<u>28</u>	<u>0.68</u>	<u>0.53</u>	<u>119.29</u>
	D	0.00	1	0.02	-0.75	50.00
	Missing	0.00	3	0.07	-0.18	105.67
1147	option	wt.	n	p	PtBis	avg.
	B	0.00	2	0.05	0.06	118.00
	C	0.00	3	0.07	0.04	116.00
	<u>D</u>	<u>1.00</u>	<u>35</u>	<u>0.85</u>	<u>-0.07</u>	<u>113.94</u>
	Missing	0.00	1	0.02	-0.06	109.00
1148	option	wt.	n	p	PtBis	avg.
	<u>A</u>	<u>1.00</u>	<u>27</u>	<u>0.66</u>	<u>0.00</u>	<u>114.52</u>
	B	0.00	4	0.10	-0.27	103.25
	C	0.00	10	0.24	0.14	117.60
1150	option	wt.	n	p	PtBis	avg.
	A	0.00	2	0.05	-0.29	97.00
	B	0.00	5	0.12	0.02	114.80
	<u>C</u>	<u>1.00</u>	<u>31</u>	<u>0.76</u>	<u>0.08</u>	<u>115.00</u>
	D	0.00	3	0.07	0.04	116.00
1151	option	wt.	n	p	PtBis	avg.
	<u>A</u>	<u>1.00</u>	<u>35</u>	<u>0.85</u>	<u>-0.10</u>	<u>113.77</u>
	C	0.00	6	0.15	0.07	116.50
1152	option	wt.	n	p	PtBis	avg.
	<u>A</u>	<u>1.00</u>	<u>38</u>	<u>0.93</u>	<u>0.22</u>	<u>115.08</u>
	C	0.00	1	0.02	0.00	114.00
	Missing	0.00	2	0.05	-0.29	97.00
1153	option	wt.	n	p	PtBis	avg.
	<u>A</u>	<u>1.00</u>	<u>7</u>	<u>0.17</u>	<u>-0.13</u>	<u>111.14</u>
	B	0.00	4	0.10	0.06	116.75
	C	0.00	19	0.46	0.00	114.16
	D	0.00	10	0.24	0.07	115.80
	Missing	0.00	1	0.02	-0.06	109.00



1154	option	wt.	n	p	PtBis	avg.
	<u>A</u>	<u>1.00</u>	<u>24</u>	<u>0.59</u>	<u>0.23</u>	<u>117.13</u>
	C	0.00	16	0.39	-0.27	109.56
	D	0.00	1	0.02	0.03	117.00
1155	option	wt.	n	p	PtBis	avg.
	<u>A</u>	<u>1.00</u>	<u>8</u>	<u>0.20</u>	<u>0.10</u>	<u>117.63</u>
	C	0.00	2	0.05	-0.67	74.50
	D	0.00	29	0.71	0.27	116.52
	Missing	0.00	2	0.05	-0.14	106.00
1156	option	wt.	n	p	PtBis	avg.
	A	0.00	22	0.54	0.25	117.32
	B	0.00	2	0.05	0.13	122.00
	<u>C</u>	<u>1.00</u>	<u>9</u>	<u>0.22</u>	<u>0.06</u>	<u>116.56</u>
	D	0.00	3	0.07	-0.39	95.33
	Missing	0.00	5	0.12	-0.28	104.20
1157	option	wt.	n	p	PtBis	avg.
	B	0.00	2	0.05	-0.44	88.00
	<u>C</u>	<u>1.00</u>	<u>21</u>	<u>0.51</u>	<u>0.26</u>	<u>118.00</u>
	D	0.00	16	0.39	-0.04	113.44
	Missing	0.00	2	0.05	-0.14	106.00
1158	option	wt.	n	p	PtBis	avg.
	<u>A</u>	<u>1.00</u>	<u>26</u>	<u>0.63</u>	<u>0.43</u>	<u>118.88</u>
	B	0.00	5	0.12	-0.18	107.80
	C	0.00	8	0.20	-0.38	103.75
	D	0.00	1	0.02	-0.10	106.00
	Missing	0.00	1	0.02	0.01	115.00
1159	option	wt.	n	p	PtBis	avg.
	<u>A</u>	<u>1.00</u>	<u>37</u>	<u>0.90</u>	<u>0.54</u>	<u>116.65</u>
	C	0.00	2	0.05	-0.60	78.50
	D	0.00	1	0.02	-0.18	99.00
	Missing	0.00	1	0.02	-0.06	109.00
1160	option	wt.	n	p	PtBis	avg.
	C	0.00	5	0.12	-0.55	94.40
	<u>D</u>	<u>1.00</u>	<u>36</u>	<u>0.88</u>	<u>0.53</u>	<u>116.92</u>
1161	option	wt.	n	p	PtBis	avg.
	<u>A</u>	<u>1.00</u>	<u>40</u>	<u>0.98</u>	<u>0.75</u>	<u>115.78</u>
	B	0.00	1	0.02	-0.75	50.00
1162	option	wt.	n	p	PtBis	avg.
	B	0.00	4	0.10	-0.47	94.75



	<u>C</u>	<u>1.00</u>	<u>36</u>	<u>0.88</u>	<u>0.38</u>	<u>116.19</u>
	D	0.00	1	0.02	0.06	119.00
1163	option	wt.	n	p	PtBis	avg.
	A	0.00	5	0.12	-0.03	113.20
	<u>B</u>	<u>1.00</u>	<u>33</u>	<u>0.80</u>	<u>-0.01</u>	<u>114.27</u>
	C	0.00	2	0.05	-0.04	111.50
	D	0.00	1	0.02	0.08	121.00
1164	option	wt.	n	p	PtBis	avg.
	C	0.00	1	0.02	-0.75	50.00
	<u>D</u>	<u>1.00</u>	<u>40</u>	<u>0.98</u>	<u>0.75</u>	<u>115.78</u>
1165	option	wt.	n	p	PtBis	avg.
	A	0.00	5	0.12	0.17	120.20
	<u>B</u>	<u>1.00</u>	<u>27</u>	<u>0.66</u>	<u>0.29</u>	<u>117.33</u>
	C	0.00	6	0.15	-0.39	101.50
	Missing	0.00	3	0.07	-0.27	101.00
1166	option	wt.	n	p	PtBis	avg.
	<u>C</u>	<u>1.00</u>	<u>19</u>	<u>0.46</u>	<u>0.16</u>	<u>117.05</u>
	D	0.00	20	0.49	-0.14	112.25
	Missing	0.00	2	0.05	-0.14	106.00
1167	option	wt.	n	p	PtBis	avg.
	A	0.00	4	0.10	-0.39	98.00
	C	0.00	9	0.22	0.33	122.56
	<u>D</u>	<u>1.00</u>	<u>26</u>	<u>0.63</u>	<u>-0.01</u>	<u>114.38</u>
	Missing	0.00	2	0.05	-0.14	106.00
1168	option	wt.	n	p	PtBis	avg.
	<u>B</u>	<u>1.00</u>	<u>39</u>	<u>0.95</u>	<u>0.57</u>	<u>115.95</u>
	C	0.00	1	0.02	-0.06	109.00
	D	0.00	1	0.02	-0.75	50.00
1169	option	wt.	n	p	PtBis	avg.
	<u>A</u>	<u>1.00</u>	<u>28</u>	<u>0.68</u>	<u>0.30</u>	<u>117.21</u>
	B	0.00	4	0.10	-0.05	112.00
	C	0.00	6	0.15	-0.47	98.83
	D	0.00	3	0.07	0.11	119.33
1170	option	wt.	n	p	PtBis	avg.
	<u>B</u>	<u>1.00</u>	<u>32</u>	<u>0.78</u>	<u>0.07</u>	<u>114.88</u>
	D	0.00	7	0.17	-0.18	108.71
	Missing	0.00	2	0.05	0.13	122.00
1171	option	wt.	n	p	PtBis	avg.
	A	0.00	2	0.05	0.10	120.00



	B	0.00	3	0.07	-0.11	109.00
	<u>C</u>	<u>1.00</u>	<u>29</u>	<u>0.71</u>	<u>0.46</u>	<u>118.41</u>
	D	0.00	5	0.12	-0.47	97.20
	Missing	0.00	2	0.05	-0.29	97.00
1172	option	wt.	n	p	PtBis	avg.
	<u>B</u>	<u>1.00</u>	<u>35</u>	<u>0.85</u>	<u>0.56</u>	<u>117.37</u>
	C	0.00	1	0.02	-0.75	50.00
	D	0.00	5	0.12	-0.26	104.60
1173	option	wt.	n	p	PtBis	avg.
	A	0.00	2	0.05	0.01	115.00
	<u>B</u>	<u>1.00</u>	<u>28</u>	<u>0.68</u>	<u>-0.13</u>	<u>113.25</u>
	C	0.00	1	0.02	-0.19	98.00
	D	0.00	10	0.24	0.17	118.20
1174	option	wt.	n	p	PtBis	avg.
	A	0.00	1	0.02	-0.08	107.00
	B	0.00	1	0.02	0.15	127.00
	<u>C</u>	<u>1.00</u>	<u>39</u>	<u>0.95</u>	<u>-0.06</u>	<u>114.03</u>
1175	option	wt.	n	p	PtBis	avg.
	<u>A</u>	<u>1.00</u>	<u>7</u>	<u>0.17</u>	<u>0.05</u>	<u>116.57</u>
	B	0.00	34	0.83	-0.08	113.68
1176	option	wt.	n	p	PtBis	avg.
	A	0.00	1	0.02	-0.75	50.00
	<u>B</u>	<u>1.00</u>	<u>35</u>	<u>0.85</u>	<u>0.51</u>	<u>117.11</u>
	C	0.00	4	0.10	-0.29	102.25
	Missing	0.00	1	0.02	0.10	123.00
1177	option	wt.	n	p	PtBis	avg.
	<u>A</u>	<u>1.00</u>	<u>10</u>	<u>0.24</u>	<u>0.06</u>	<u>116.30</u>
	B	0.00	13	0.32	-0.06	113.08
	C	0.00	17	0.41	-0.01	114.06
	Missing	0.00	1	0.02	-0.06	109.00
1178	option	wt.	n	p	PtBis	avg.
	A	0.00	3	0.07	-0.25	102.00
	<u>B</u>	<u>1.00</u>	<u>33</u>	<u>0.80</u>	<u>0.45</u>	<u>117.33</u>
	C	0.00	2	0.05	0.06	118.00
	D	0.00	3	0.07	-0.52	89.00
1179	option	wt.	n	p	PtBis	avg.
	<u>A</u>	<u>1.00</u>	<u>11</u>	<u>0.27</u>	<u>0.20</u>	<u>119.27</u>
	C	0.00	5	0.12	-0.31	102.80
	D	0.00	25	0.61	0.00	114.20



1180	option	wt.	n	p	PtBis	avg.
	<u>A</u>	<u>1.00</u>	<u>16</u>	<u>0.39</u>	<u>-0.16</u>	<u>112.13</u>
	B	0.00	2	0.05	0.13	122.00
	C	0.00	3	0.07	0.10	119.00
	D	0.00	20	0.49	0.01	114.30
1181	option	wt.	n	p	PtBis	avg.
	A	0.00	23	0.56	0.01	114.35
	B	0.00	7	0.17	0.22	120.57
	C	0.00	1	0.02	-0.75	50.00
	<u>D</u>	<u>1.00</u>	<u>8</u>	<u>0.20</u>	<u>0.12</u>	<u>118.13</u>
	Missing	0.00	2	0.05	-0.14	106.00
1182	option	wt.	n	p	PtBis	avg.
	<u>C</u>	<u>1.00</u>	<u>40</u>	<u>0.98</u>	<u>0.75</u>	<u>115.78</u>
	D	0.00	1	0.02	-0.75	50.00
1183	option	wt.	n	p	PtBis	avg.
	<u>A</u>	<u>1.00</u>	<u>34</u>	<u>0.83</u>	<u>0.17</u>	<u>115.38</u>
	B	0.00	2	0.05	-0.54	82.00
	C	0.00	5	0.12	0.13	118.80
1184	option	wt.	n	p	PtBis	avg.
	<u>A</u>	<u>1.00</u>	<u>32</u>	<u>0.78</u>	<u>0.45</u>	<u>117.53</u>
	B	0.00	1	0.02	-0.75	50.00
	C	0.00	6	0.15	-0.22	107.17
	D	0.00	2	0.05	-0.01	113.50
1185	option	wt.	n	p	PtBis	avg.
	A	0.00	1	0.02	0.01	115.00
	<u>B</u>	<u>1.00</u>	<u>35</u>	<u>0.85</u>	<u>0.22</u>	<u>115.51</u>
	D	0.00	3	0.07	-0.09	109.67
	Missing	0.00	2	0.05	-0.29	97.00
1186	option	wt.	n	p	PtBis	avg.
	<u>B</u>	<u>1.00</u>	<u>34</u>	<u>0.83</u>	<u>0.71</u>	<u>118.59</u>
	C	0.00	6	0.15	-0.44	99.83
	D	0.00	1	0.02	-0.75	50.00
1187	option	wt.	n	p	PtBis	avg.
	<u>A</u>	<u>1.00</u>	<u>28</u>	<u>0.68</u>	<u>0.40</u>	<u>118.11</u>
	B	0.00	1	0.02	-0.75	50.00
	C	0.00	6	0.15	0.13	118.33
	D	0.00	2	0.05	-0.17	104.00
	Missing	0.00	4	0.10	-0.31	101.50
1188	option	wt.	n	p	PtBis	avg.
	<u>A</u>	<u>1.00</u>	<u>38</u>	<u>0.93</u>	<u>0.33</u>	<u>115.47</u>



	B	0.00	1	0.02	-0.18	99.00
	Missing	0.00	2	0.05	-0.29	97.00
1189	option	wt.	n	p	PtBis	avg.
	A	0.00	1	0.02	-0.18	99.00
	B	0.00	2	0.05	-0.48	85.50
	<u>C</u>	<u>1.00</u>	<u>38</u>	<u>0.93</u>	<u>0.49</u>	<u>116.08</u>
1190	option	wt.	n	p	PtBis	avg.
	<u>C</u>	<u>1.00</u>	<u>41</u>	<u>1.00</u>	<u>0.00</u>	<u>114.17</u>
1191	option	wt.	n	p	PtBis	avg.
	A	0.00	3	0.07	-0.53	88.67
	<u>B</u>	<u>1.00</u>	<u>33</u>	<u>0.80</u>	<u>0.51</u>	<u>117.73</u>
	D	0.00	5	0.12	-0.23	106.00
1192	option	wt.	n	p	PtBis	avg.
	A	0.00	12	0.29	0.22	118.83
	<u>B</u>	<u>1.00</u>	<u>28</u>	<u>0.68</u>	<u>-0.26</u>	<u>112.04</u>
	C	0.00	1	0.02	0.04	118.00
1193	option	wt.	n	p	PtBis	avg.
	B	0.00	2	0.05	0.10	120.00
	C	0.00	4	0.10	-0.19	106.50
	<u>D</u>	<u>1.00</u>	<u>35</u>	<u>0.85</u>	<u>0.07</u>	<u>114.71</u>
1194	option	wt.	n	p	PtBis	avg.
	A	0.00	11	0.27	0.26	119.91
	B	0.00	4	0.10	-0.50	93.75
	<u>C</u>	<u>1.00</u>	<u>25</u>	<u>0.61</u>	<u>0.05</u>	<u>115.12</u>
	Missing	0.00	1	0.02	-0.06	109.00
1195	option	wt.	n	p	PtBis	avg.
	A	0.00	8	0.20	-0.19	108.88
	<u>B</u>	<u>1.00</u>	<u>24</u>	<u>0.59</u>	<u>0.48</u>	<u>119.88</u>
	C	0.00	9	0.22	-0.41	103.67
1196	option	wt.	n	p	PtBis	avg.
	A	0.00	6	0.15	0.06	116.17
	B	0.00	5	0.12	-0.33	102.20
	<u>C</u>	<u>1.00</u>	<u>13</u>	<u>0.32</u>	<u>0.05</u>	<u>115.92</u>
	D	0.00	13	0.32	0.13	116.77
	Missing	0.00	4	0.10	-0.05	112.00
1197	option	wt.	n	p	PtBis	avg.
	<u>B</u>	<u>1.00</u>	<u>39</u>	<u>0.95</u>	<u>0.59</u>	<u>116.00</u>
	C	0.00	1	0.02	-0.75	50.00
	D	0.00	1	0.02	-0.08	107.00



1198	option	wt.	n	p	PtBis	avg.
	A	0.00	2	0.05	-0.52	83.50
	<u>C</u>	<u>1.00</u>	<u>35</u>	<u>0.85</u>	<u>0.24</u>	<u>115.63</u>
	D	0.00	3	0.07	0.12	120.00
	Missing	0.00	1	0.02	-0.08	107.00
1199	option	wt.	n	p	PtBis	avg.
	B	0.00	9	0.22	0.16	118.22
	C	0.00	3	0.07	-0.56	87.33
	<u>D</u>	<u>1.00</u>	<u>29</u>	<u>0.71</u>	<u>0.14</u>	<u>115.69</u>
1200	option	wt.	n	p	PtBis	avg.
	A	0.00	25	0.61	0.25	116.84
	B	0.00	3	0.07	-0.34	98.00
	<u>C</u>	<u>1.00</u>	<u>10</u>	<u>0.24</u>	<u>-0.05</u>	<u>113.70</u>
	D	0.00	2	0.05	-0.05	111.00
	Missing	0.00	1	0.02	-0.08	107.00
1201	option	wt.	n	p	PtBis	avg.
	A	0.00	1	0.02	-0.75	50.00
	B	0.00	1	0.02	-0.10	106.00
	C	0.00	37	0.90	0.39	115.92
	<u>D</u>	<u>1.00</u>	<u>2</u>	<u>0.05</u>	<u>0.05</u>	<u>118.00</u>
1202	option	wt.	n	p	PtBis	avg.
	A	0.00	6	0.15	-0.04	112.83
	B	0.00	2	0.05	-0.67	74.50
	<u>C</u>	<u>1.00</u>	<u>17</u>	<u>0.41</u>	<u>0.20</u>	<u>117.88</u>
	D	0.00	13	0.32	0.25	119.08
	Missing	0.00	3	0.07	-0.27	101.00
1203	option	wt.	n	p	PtBis	avg.
	A	0.00	3	0.07	0.09	118.33
	<u>B</u>	<u>1.00</u>	<u>31</u>	<u>0.76</u>	<u>-0.20</u>	<u>112.90</u>
	C	0.00	1	0.02	0.00	114.00
	D	0.00	6	0.15	0.14	118.67
1204	option	wt.	n	p	PtBis	avg.
	A	0.00	8	0.20	0.07	116.13
	B	0.00	6	0.15	0.02	114.67
	<u>C</u>	<u>1.00</u>	<u>23</u>	<u>0.56</u>	<u>-0.02</u>	<u>114.35</u>
	D	0.00	2	0.05	0.10	120.00
	Missing	0.00	2	0.05	-0.29	97.00
1205	option	wt.	n	p	PtBis	avg.
	A	0.00	19	0.46	0.22	117.42
	B	0.00	13	0.32	-0.21	110.08



	<u>C</u>	<u>1.00</u>	<u>7</u>	<u>0.17</u>	<u>0.01</u>	<u>115.29</u>
	D	0.00	2	0.05	-0.14	106.00
1206	option	wt.	n	p	PtBis	avg.
	<u>A</u>	<u>1.00</u>	<u>32</u>	<u>0.78</u>	<u>0.26</u>	<u>116.22</u>
	D	0.00	9	0.22	-0.29	106.89
1207	option	wt.	n	p	PtBis	avg.
	<u>A</u>	<u>1.00</u>	<u>38</u>	<u>0.93</u>	<u>0.55</u>	<u>116.29</u>
	B	0.00	3	0.07	-0.56	87.33
1208	option	wt.	n	p	PtBis	avg.
	A	0.00	17	0.41	0.25	118.24
	<u>B</u>	<u>1.00</u>	<u>17</u>	<u>0.41</u>	<u>0.17</u>	<u>117.41</u>
	C	0.00	6	0.15	-0.31	104.17
	D	0.00	1	0.02	-0.75	50.00
1209	option	wt.	n	p	PtBis	avg.
	<u>B</u>	<u>1.00</u>	<u>40</u>	<u>0.98</u>	<u>0.75</u>	<u>115.78</u>
	D	0.00	1	0.02	-0.75	50.00
1210	option	wt.	n	p	PtBis	avg.
	A	0.00	4	0.10	0.03	115.50
	<u>C</u>	<u>1.00</u>	<u>19</u>	<u>0.46</u>	<u>0.21</u>	<u>117.74</u>
	D	0.00	13	0.32	-0.07	112.85
	Missing	0.00	5	0.12	-0.31	103.00
1211	option	wt.	n	p	PtBis	avg.
	A	0.00	1	0.02	-0.75	50.00
	<u>B</u>	<u>1.00</u>	<u>27</u>	<u>0.66</u>	<u>0.14</u>	<u>115.85</u>
	C	0.00	12	0.29	0.14	117.08
	D	0.00	1	0.02	-0.19	98.00
1212	option	wt.	n	p	PtBis	avg.
	<u>A</u>	<u>1.00</u>	<u>25</u>	<u>0.61</u>	<u>0.03</u>	<u>114.88</u>
	B	0.00	1	0.02	0.10	123.00
	C	0.00	13	0.32	-0.12	111.77
	D	0.00	1	0.02	0.14	126.00
	Missing	0.00	1	0.02	-0.08	107.00
1213	option	wt.	n	p	PtBis	avg.
	A	0.00	4	0.10	-0.14	108.25
	B	0.00	5	0.12	0.09	117.40
	<u>C</u>	<u>1.00</u>	<u>23</u>	<u>0.56</u>	<u>0.18</u>	<u>116.70</u>
	D	0.00	9	0.22	-0.22	108.56
1214	option	wt.	n	p	PtBis	avg.
	A	0.00	3	0.07	-0.68	81.33



	<u>B</u>	<u>1.00</u>	<u>37</u>	<u>0.90</u>	<u>0.53</u>	<u>116.59</u>
	D	0.00	1	0.02	0.10	123.00
1215	option	wt.	n	p	PtBis	avg.
	<u>B</u>	<u>1.00</u>	<u>38</u>	<u>0.93</u>	<u>-0.09</u>	<u>113.89</u>
	D	0.00	3	0.07	0.07	117.67
1216	option	wt.	n	p	PtBis	avg.
	A	0.00	2	0.05	0.13	122.00
	<u>B</u>	<u>1.00</u>	<u>27</u>	<u>0.66</u>	<u>0.30</u>	<u>117.41</u>
	C	0.00	9	0.22	-0.14	110.56
	D	0.00	3	0.07	-0.49	90.67
1217	option	wt.	n	p	PtBis	avg.
	A	0.00	8	0.20	-0.08	112.00
	<u>B</u>	<u>1.00</u>	<u>29</u>	<u>0.71</u>	<u>0.33</u>	<u>117.31</u>
	C	0.00	2	0.05	-0.67	74.50
	D	0.00	1	0.02	0.15	127.00
	Missing	0.00	1	0.02	-0.08	107.00
1219	option	wt.	n	p	PtBis	avg.
	B	0.00	1	0.02	0.08	121.00
	C	0.00	14	0.34	-0.18	110.71
	<u>D</u>	<u>1.00</u>	<u>26</u>	<u>0.63</u>	<u>0.12</u>	<u>115.77</u>
1220	option	wt.	n	p	PtBis	avg.
	A	0.00	8	0.20	-0.28	106.50
	B	0.00	7	0.17	0.07	116.14
	<u>C</u>	<u>1.00</u>	<u>26</u>	<u>0.63</u>	<u>0.14</u>	<u>116.00</u>
1221	option	wt.	n	p	PtBis	avg.
	B	0.00	1	0.02	-0.19	98.00
	<u>D</u>	<u>1.00</u>	<u>40</u>	<u>0.98</u>	<u>0.18</u>	<u>114.58</u>
1222	option	wt.	n	p	PtBis	avg.
	A	0.00	5	0.12	-0.56	94.00
	C	0.00	2	0.05	-0.19	103.00
	<u>D</u>	<u>1.00</u>	<u>34</u>	<u>0.83</u>	<u>0.57</u>	<u>117.79</u>
1223	option	wt.	n	p	PtBis	avg.
	C	0.00	4	0.10	-0.16	107.75
	<u>D</u>	<u>1.00</u>	<u>37</u>	<u>0.90</u>	<u>0.14</u>	<u>114.86</u>
1224	option	wt.	n	p	PtBis	avg.
	B	0.00	3	0.07	-0.05	111.67
	<u>D</u>	<u>1.00</u>	<u>38</u>	<u>0.93</u>	<u>0.03</u>	<u>114.37</u>
1225	option	wt.	n	p	PtBis	avg.



	B	0.00	4	0.10	0.06	116.50
	C	1.00	36	0.88	-0.05	114.06
	Missing	0.00	1	0.02	-0.06	109.00
1226	option	wt.	n	p	PtBis	avg.
	A	0.00	1	0.02	-0.75	50.00
	B	1.00	40	0.98	0.75	115.78
1227	option	wt.	n	p	PtBis	avg.
	C	1.00	24	0.59	-0.17	112.67
	D	0.00	12	0.29	0.12	116.67
	Missing	0.00	5	0.12	0.03	115.40
1228	option	wt.	n	p	PtBis	avg.
	C	1.00	41	1.00	0.00	114.17
1229	option	wt.	n	p	PtBis	avg.
	B	0.00	1	0.02	-0.75	50.00
	D	1.00	40	0.98	0.75	115.78
1230	option	wt.	n	p	PtBis	avg.
	A	1.00	38	0.93	-0.10	113.87
	B	0.00	2	0.05	0.23	128.00
	C	0.00	1	0.02	-0.19	98.00
1231	option	wt.	n	p	PtBis	avg.
	A	1.00	31	0.76	0.06	114.87
	C	0.00	4	0.10	0.08	117.50
	Missing	0.00	6	0.15	-0.18	108.33
1232	option	wt.	n	p	PtBis	avg.
	A	0.00	1	0.02	-0.75	50.00
	B	0.00	4	0.10	0.00	114.00
	D	1.00	36	0.88	0.34	115.97
1233	option	wt.	n	p	PtBis	avg.
	A	0.00	2	0.05	-0.61	78.00
	B	0.00	2	0.05	-0.17	104.00
	D	1.00	37	0.90	0.55	116.68
1234	option	wt.	n	p	PtBis	avg.
	A	0.00	4	0.10	-0.65	87.50
	C	1.00	35	0.85	0.61	117.69
	Missing	0.00	2	0.05	-0.14	106.00
1235	option	wt.	n	p	PtBis	avg.
	A	0.00	15	0.37	0.05	115.00
	B	1.00	2	0.05	0.15	124.00



	C	0.00	9	0.22	-0.17	109.78
	D	0.00	13	0.32	0.09	116.00
	Missing	0.00	2	0.05	-0.14	106.00
1236	option	wt.	n	p	PtBis	avg.
	<u>A</u>	<u>1.00</u>	<u>9</u>	<u>0.22</u>	<u>-0.10</u>	<u>112.33</u>
	C	0.00	21	0.51	0.40	119.38
	D	0.00	7	0.17	-0.36	103.57
	Missing	0.00	4	0.10	-0.11	109.50
1237	option	wt.	n	p	PtBis	avg.
	A	0.00	1	0.02	-0.75	50.00
	<u>B</u>	<u>1.00</u>	<u>37</u>	<u>0.90</u>	<u>0.48</u>	<u>116.35</u>
	C	0.00	3	0.07	-0.11	108.67
1239	option	wt.	n	p	PtBis	avg.
	<u>B</u>	<u>1.00</u>	<u>40</u>	<u>0.98</u>	<u>0.75</u>	<u>115.78</u>
	C	0.00	1	0.02	-0.75	50.00
1241	option	wt.	n	p	PtBis	avg.
	A	0.00	8	0.20	-0.13	110.50
	C	0.00	2	0.05	-0.04	111.50
	<u>D</u>	<u>1.00</u>	<u>31</u>	<u>0.76</u>	<u>0.11</u>	<u>115.29</u>
1242	option	wt.	n	p	PtBis	avg.
	<u>B</u>	<u>1.00</u>	<u>40</u>	<u>0.98</u>	<u>0.75</u>	<u>115.78</u>
	C	0.00	1	0.02	-0.75	50.00
1243	option	wt.	n	p	PtBis	avg.
	<u>A</u>	<u>1.00</u>	<u>26</u>	<u>0.63</u>	<u>0.11</u>	<u>115.69</u>
	C	0.00	6	0.15	0.12	118.17
	D	0.00	7	0.17	-0.23	107.43
	Missing	0.00	2	0.05	-0.14	106.00
1244	option	wt.	n	p	PtBis	avg.
	B	0.00	1	0.02	0.10	123.00
	C	0.00	4	0.10	-0.41	97.25
	<u>D</u>	<u>1.00</u>	<u>34</u>	<u>0.83</u>	<u>0.43</u>	<u>116.91</u>
	Missing	0.00	2	0.05	-0.29	97.00
1245	option	wt.	n	p	PtBis	avg.
	<u>A</u>	<u>1.00</u>	<u>40</u>	<u>0.98</u>	<u>0.75</u>	<u>115.78</u>
	B	0.00	1	0.02	-0.75	50.00
1246	option	wt.	n	p	PtBis	avg.
	A	0.00	10	0.24	-0.40	104.60
	B	0.00	1	0.02	-0.08	107.00
	<u>C</u>	<u>1.00</u>	<u>30</u>	<u>0.73</u>	<u>0.39</u>	<u>117.60</u>



1247	option	wt.	n	p	PtBis	avg.
	A	0.00	1	0.02	-0.75	50.00
	B	0.00	12	0.29	0.02	114.67
	<u>C</u>	<u>1.00</u>	<u>28</u>	<u>0.68</u>	<u>0.19</u>	<u>116.25</u>
1248	option	wt.	n	p	PtBis	avg.
	<u>A</u>	<u>1.00</u>	<u>7</u>	<u>0.17</u>	<u>0.17</u>	<u>120.14</u>
	B	0.00	1	0.02	-0.18	99.00
	C	0.00	6	0.15	0.10	117.33
	D	0.00	27	0.66	-0.17	112.48
1249	option	wt.	n	p	PtBis	avg.
	A	0.00	2	0.05	-0.17	104.00
	<u>C</u>	<u>1.00</u>	<u>19</u>	<u>0.46</u>	<u>-0.06</u>	<u>113.89</u>
	D	0.00	20	0.49	0.09	115.45
1250	option	wt.	n	p	PtBis	avg.
	<u>A</u>	<u>1.00</u>	<u>32</u>	<u>0.78</u>	<u>0.14</u>	<u>115.38</u>
	B	0.00	4	0.10	-0.34	100.25
	C	0.00	4	0.10	0.20	122.50
	D	0.00	1	0.02	-0.19	98.00
1251	option	wt.	n	p	PtBis	avg.
	A	0.00	3	0.07	0.00	114.00
	B	0.00	3	0.07	0.09	118.33
	<u>C</u>	<u>1.00</u>	<u>28</u>	<u>0.68</u>	<u>0.15</u>	<u>115.89</u>
	D	0.00	3	0.07	-0.07	111.00
	Missing	0.00	4	0.10	-0.31	101.50
1252	option	wt.	n	p	PtBis	avg.
	<u>A</u>	<u>1.00</u>	<u>39</u>	<u>0.95</u>	<u>0.54</u>	<u>115.85</u>
	B	0.00	1	0.02	-0.01	113.00
	D	0.00	1	0.02	-0.75	50.00
1253	option	wt.	n	p	PtBis	avg.
	A	0.00	1	0.02	0.01	115.00
	<u>B</u>	<u>1.00</u>	<u>38</u>	<u>0.93</u>	<u>0.53</u>	<u>116.24</u>
	C	0.00	2	0.05	-0.67	74.50
1254	option	wt.	n	p	PtBis	avg.
	<u>A</u>	<u>1.00</u>	<u>31</u>	<u>0.76</u>	<u>0.38</u>	<u>117.29</u>
	B	0.00	2	0.05	-0.14	106.00
	C	0.00	2	0.05	-0.52	83.50
	D	0.00	6	0.15	-0.10	111.00
1255	option	wt.	n	p	PtBis	avg.
	<u>B</u>	<u>1.00</u>	<u>38</u>	<u>0.93</u>	<u>0.59</u>	<u>116.45</u>



	C	0.00	1	0.02	-0.18	99.00
	D	0.00	2	0.05	-0.60	78.50
1256	option	wt.	n	p	PtBis	avg.
	<u>A</u>	<u>1.00</u>	<u>16</u>	<u>0.39</u>	<u>0.13</u>	<u>117.00</u>
	B	0.00	23	0.56	-0.08	113.22
	D	0.00	2	0.05	-0.20	102.50
1257	option	wt.	n	p	PtBis	avg.
	A	0.00	6	0.15	-0.14	109.50
	B	0.00	7	0.17	-0.39	102.71
	<u>C</u>	<u>1.00</u>	<u>21</u>	<u>0.51</u>	<u>0.14</u>	<u>116.52</u>
	D	0.00	5	0.12	0.24	122.80
	Missing	0.00	2	0.05	0.13	122.00
1258	option	wt.	n	p	PtBis	avg.
	A	0.00	6	0.15	0.01	114.50
	<u>B</u>	<u>1.00</u>	<u>34</u>	<u>0.83</u>	<u>0.27</u>	<u>116.00</u>
	D	0.00	1	0.02	-0.75	50.00
1259	option	wt.	n	p	PtBis	avg.
	<u>B</u>	<u>1.00</u>	<u>39</u>	<u>0.95</u>	<u>-0.15</u>	<u>113.77</u>
	C	0.00	2	0.05	0.13	122.00
1260	option	wt.	n	p	PtBis	avg.
	B	0.00	1	0.02	0.00	114.00
	C	0.00	38	0.93	0.24	115.08
	<u>X</u>	<u>1.00</u>	<u>0</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	Missing	0.00	2	0.05	-0.29	97.00
1420	option	wt.	n	p	PtBis	avg.
	<u>A</u>	<u>1.00</u>	<u>11</u>	<u>0.27</u>	<u>-0.06</u>	<u>113.45</u>
	T	0.00	27	0.66	0.06	114.74
	Missing	0.00	3	0.07	-0.05	111.67
1421	option	wt.	n	p	PtBis	avg.
	B	0.00	4	0.10	0.00	114.00
	C	0.00	9	0.22	-0.16	110.22
	<u>D</u>	<u>1.00</u>	<u>25</u>	<u>0.61</u>	<u>0.19</u>	<u>116.64</u>
	Missing	0.00	3	0.07	-0.18	105.67
1424	option	wt.	n	p	PtBis	avg.
	A	0.00	4	0.10	0.14	120.00
	<u>B</u>	<u>1.00</u>	<u>18</u>	<u>0.44</u>	<u>0.23</u>	<u>118.22</u>
	D	0.00	9	0.22	-0.52	100.89
	Missing	0.00	10	0.24	0.10	116.50