

MARTIN O'MALLEY  
Governor

ANTHONY G. BROWN  
Lt. Governor



THERESE M GOLDSMITH  
Commissioner

BETH SAMMIS  
KAREN STAKEM HORNIG  
Deputy Commissioners

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August 31, 2011

Thomas V. Mike Miller, Jr.  
President of the Senate  
Room 200 B  
Legislative Services Building  
Annapolis, Maryland 21401-1991

Michael E. Busch  
Speaker of the House of Delegates  
Room 200 B  
Legislative Services Building  
Annapolis, Maryland 21401-1991

Dear President Miller and Speaker Busch:

Pursuant to the requirements of § 10-109(e) of the Insurance Article, the Maryland Insurance Administration is submitting a report summarizing statistical information that relates to life and health insurance producer examinations administered during 2010. If you have any questions or concerns, please do not hesitate to call me at 410-468-2090.

Sincerely,

A handwritten signature in cursive script that reads "Therese M. Goldsmith".

Therese M. Goldsmith  
Insurance Commissioner

Enclosure

cc: Chairman Thomas M. Middleton  
Chairman Peter A. Hammen  
Sarah T. Albert

## MEMORANDUM

June 3, 2011

TO: Therese M. Goldsmith, Insurance Commissioner  
Maryland Insurance Administration

FROM: John Weiner, Vice President & Chief Science Officer  
PSI Services LLC

SUBJECT: HB 1100 Demographic Survey Report

This report is submitted by PSI Services LLC to the Maryland Insurance Administration in order to assist the Administration in meeting its obligations under HB 1100, which requires that the Administration prepare and publish a report summarizing statistical information that relates to the life and health insurance producer examinations administered during the preceding calendar year. HB 1100 calls for the following information for all examinees combined and separately by race or ethnicity, gender, race or ethnicity within gender, educational level, and native language: (i) the total number of examinees; (ii) the percentage and number of examinees who passed the examination; (iii) the mean scaled scores on the examination; (iv) the standard deviation of scaled scores on the examination; and (v) the correct answer rate and correlation for each test question and each test form.

### Results

The report presents information for the period January 1, 2010 through December 31, 2010. Results include all examinees that took one or more of the life and health insurance producer examinations during this period.

**All Examinees Combined.** Results are provided addressing items i - v above for all examinees combined in the following tables:

- Table 1a. Number of Examinees, by Form
- Table 2a. Percentage and Number of Examinees Who Passed the Examination
- Table 3a. Examination Score Means and Standards Deviations
- Table 4. Summary of Correct Answer Rate and Correlation of Each Test Form
- Appendix A. Correct Answer Rate and Correlation of Each Test Question

**Demographic Subgroups.** As seen in Tables 1b-f, the response rates to the demographic questions were too low to be considered representative of the examinees tested. Of the 11,276 tests taken during 2010, 51% of the examinees (5,787) did not report gender, 70% (7,888) did not report race/ethnicity, 69% (7,834) did not report education level, and 72% (8,120) did not report native language. This low response rate renders suspect most subgroup analyses because the data cannot be presumed to be representative of the examinee population. That is, it is possible that a different sample, or a larger sample, would obtain

substantially different scores than those obtained by the examinees that happened to report demographic information.

While there has been an improved willingness to report demographic information compared to prior years, the amount of missing demographic data was still too large to support meaningful analyses of data by race or ethnicity, race or ethnicity within gender, educational level, and native language. Although the amount of missing data for gender is also large, tentative results are provided for gender groups.

Table 2.b presents passing rate results by gender group, illustrating the concern with missing demographic data. The results indicate small gender group differences in passing rates, with female examinees passing at a lower rate, ranging from 1% to 10%. However, the passing rate for examinees who did not report their gender was higher than both males and females, and thus, it is difficult to know whether the observed male-female differences would remain if all examinees reported their gender.

Table 3.b provides test mean scores and standard deviations by gender group, illustrating the same concern with missing demographic data. While the mean scores tend to be slightly lower for female examinees, the means are higher for the larger group that did not report gender, and thus the observed gender group differences may not be representative of the examinee population.

PSI recommends that further efforts be undertaken to promote increased candidate responses to demographic questions in order to support future statistical reporting for subgroups.

**Table 1. Number of Examinees, by Form**

a. All Examinees Combined

Exam	Portion	Total
Life Producer	General	1929
	State	1650
Accident and Health Producer	General	1467
	State	1478
LAH Combo	General	2492
	State	2260
Total		11276

Table 1 (continued)

b. Gender

Exam	Portion	Unspecified/ No Response	Female	Male
Life Producer	General	956	410	563
	State	850	334	466
Accident and Health Producer	General	759	266	442
	State	762	259	457
LAH Combo	General	1276	447	769
	State	1184	382	694
Total		5787	2098	3391

c. Race/Ethnicity

Exam	Portion	Unspecified/ No Response	Am. Indian	Asian	Black / AA	Nat. Hawaiian	White	Two or more
Life Producer	General	1354	2	46	344	1	160	22
	State	1186	2	39	278	2	121	22
Accident and Health Producer	General	1015	0	15	165	2	246	24
	State	1022	0	16	177	1	242	20
LAH Combo	General	1721	2	34	266	1	449	19
	State	1590	1	28	218	1	400	22
Total		7888	7	178	1448	8	1618	129

d. Education

Exam	Portion	Unspecified/ No Response	HS/GED	Some Coll	2 YR degree	BA	BS	Mstrs	Doct
Life Producer	General	1344	106	175	60	184	5	46	9
	State	1159	90	147	49	160	2	39	4
Accident and Health Producer	General	1026	74	142	47	133	0	36	9
	State	1030	76	143	46	134	1	39	9
LAH Combo	General	1713	99	211	61	334	4	62	8
	State	1562	68	187	63	313	1	60	6
Total		7834	513	1005	326	1258	13	282	45

Table 1 (continued)

e. Native Language

Exam	Portion	Unspecified/ No Response	Arab.	Chin.	Eng.	Fre.	Ital.	Kor.	Pol.	Span.	Tag.	Viet.
Life Producer	General	1412	8	10	384	7	0	1	0	90	6	11
	State	1233	6	7	292	11	0	1	0	87	7	6
Accident and Health Producer	General	1059	0	5	382	4	0	4	1	10	0	2
	State	1066	0	6	389	3	0	4	1	7	0	2
LAH Combo	General	1743	3	9	657	6	2	11	0	53	0	8
	State	1607	4	8	581	3	3	8	0	41	0	5
Total		8120	21	45	2685	34	5	29	2	288	13	34

Table 1. (continued)

f. Race within Gender

Unspecified Gender								
Exam	Portion	Unspecified/ No Response	Am. Indian	Asian	Black / AA	Nat. Hawaiian	White	Two or more
Life Producer	General	953			1		1	1
	State	848			1			1
Accident and Health Producer	General	758					1	
	State	760					2	
LAH Combo	General	1268			5		3	
	State	1179			4		1	
Total		5766			11		8	2

  

Male								
Exam	Portion	Unspecified/ No Response	Am. Indian	Asian	Black / AA	Nat. Hawaiian	White	Two or more
Life Producer	General	269	1	22	177	1	78	15
	State	228	1	21	137	2	62	15
Accident and Health Producer	General	207		10	86	1	127	11
	State	213		11	93	1	130	9
LAH Combo	General	355	2	12	125	1	265	9
	State	330	1	9	113	1	230	10
Total		1602	5	85	731	7	892	69

  

Female								
Exam	Portion	Unspecified/ No Response	Am. Indian	Asian	Black / AA	Nat. Hawaiian	White	Two or more
Life Producer	General	132	1	24	166		81	6
	State	110	1	18	140		59	6
Accident and Health Producer	General	50		5	79	1	118	13
	State	49		5	84		110	11
LAH Combo	General	98		22	136		181	10
	State	81		19	101		169	12
Total		520	2	93	706	1	718	58

**Table 2. Percentage and Number of Examinees Who Passed the Examination, Total and by Gender**

a. All Examinees Combined

Exam	Portion	Total	No. Pass	% PASS
Life Producer	General	1929	821	42.6 ✓
	State	1650	908	55.0
Accident and Health Producer	General	1467	1109	75.6 ✓
	State	1478	1138	77.0
LAH Combo	General	2492	1531	61.4 ✓
	State	2260	1616	71.5

b. Gender

Exam	Portion	Result	Unspecified/ No Response	FEMALE	MALE
	General	No.	429	150	242
		%	44.87	36.59	42.98
	State	No.	475	165	268
		%	55.88	49.40	57.51
Accident and Health Producer	General	No.	588	191	330
		%	77.47	71.80	74.66
	State	No.	606	191	341
		%	79.53	73.75	74.62
LAH Combo	General	No.	813	235	483
		%	63.71	52.57	62.81
	State	No.	869	252	495
		%	73.40	65.97	71.33

**Table 3. Examination Score Means and Standard Deviations, Total and by Gender**

a. All Examinees Combined

Exam	Portion	Total	MEAN	STDEV
Life Producer	General	1929	39.54	7.86
	State	1650	13.81	3.11
Accident and Health Producer	General	1467	45.88	6.70
	State	1478	15.13	2.51
LAH Combo	General	2492	78.52	12.31
	State	2260	14.79	2.75

b. Gender

Exam	Portion	Result	MEAN	SD
Life Producer	General	Unspecified/ No Response	39.7	8.1
		FEMALE	38.7	7.6
		MALE	39.9	7.7
	State	Unspecified/ No Response	13.9	3.1
		FEMALE	13.4	3.0
		MALE	14.0	3.2
Accident and Health Producer	General	Unspecified/ No Response	46.2	6.6
		FEMALE	45.2	6.7
		MALE	45.8	6.9
	State	Unspecified/ No Response	15.2	2.4
		FEMALE	14.9	2.7
		MALE	15.1	2.5
LAH Combo	General	Unspecified/ No Response	79.2	12.4
		FEMALE	76.6	11.9
		MALE	78.5	12.4
	State	Unspecified/ No Response	14.9	2.7
		FEMALE	14.3	2.9
		MALE	14.7	2.7

**Table 4. Summary of Correct Answer Rate and Correlation of Each Test Form**

Exam	Portion	# of Items in Bank	Mean # Examinees per item	Mean % Correct	Mean Correlation*
Life Producer	General	128	902	67.0	0.298
	State	52	633	71.3	0.329
Accident and Health Producer	General	112	786	75.0	0.296
	State	56	527	77.4	0.293
LAH Combo	General	151	1813	71.7	0.272
	State	73	618	74.3	0.308

\*Item-total point-biserial correlation coefficient.



## Appendix A. Correct Answer Rate and Correlation of Each Test Question

### Life Producer General Item Statistics

Item ID	% Correct	Correlation	No. Examinees
LPG001	92.3	0.356	665
LPG002	77.5	0.370	806
LPG003	50.3	0.375	964
LPG004	83.0	0.307	1308
LPG005	80.5	0.377	550
LPG006	74.2	0.444	942
LPG007	89.5	0.297	761
LPG008	86.2	0.270	616
LPG009	44.3	0.246	630
LPG010	86.4	0.350	559
LPG011	53.0	0.444	541
LPG012	52.2	0.302	550
LPG013	76.7	0.267	1313
LPG014	78.8	0.376	780
LPG015	75.1	0.295	1282
LPG016	66.1	0.251	773
LPG017	73.9	0.287	779
LPG018	60.6	0.388	996
LPG019	89.1	0.444	948
LPG020	45.8	0.453	1924
LPG021	63.6	0.327	1280
LPG022	44.2	0.291	1291
LPG023	84.8	0.489	475
LPG024	76.1	0.301	771
LPG025	75.8	0.281	654
LPG026	62.7	0.395	644
LPG027	70.8	0.385	1358
LPG028	83.1	0.358	396
LPG029	64.2	0.402	363
LPG030	69.6	0.289	289
LPG031	52.7	0.190	281
LPG032	83.2	0.341	333
LPG033	85.2	0.356	644
LPG034	85.6	0.339	458
LPG035	73.8	0.308	940
LPG036	56.6	0.201	366
LPG037	47.6	0.053	410
LPG038	66.0	0.467	362
LPG039	40.9	0.131	1927
LPG040	86.8	0.185	959
LPG041	75.5	0.287	412

Item ID	% Correct	Correlation	No. Examinees
LPG042	89.2	0.227	983
LPG043	86.1	0.329	367
LPG044	62.3	0.312	895
LPG045	70.4	0.259	948
LPG046	87.0	0.234	1280
LPG047	68.9	0.370	678
LPG048	82.1	0.272	1276
LPG049	92.1	0.211	793
LPG050	70.4	0.454	764
LPG051	60.6	0.112	648
LPG052	79.8	0.329	1022
LPG053	56.1	0.344	1264
LPG054	59.6	0.188	1925
LPG055	52.7	0.297	1926
LPG056	66.4	0.247	1928
LPG057	53.9	0.289	1281
LPG058	31.2	0.410	644
LPG059	74.7	0.355	475
LPG060	76.4	0.183	749
LPG061	71.4	0.302	784
LPG062	92.5	0.347	934
LPG063	79.0	0.196	1925
LPG064	86.2	0.323	1926
LPG065	72.1	0.351	631
LPG066	53.2	0.305	993
LPG067	69.9	0.430	987
LPG068	76.7	0.299	536
LPG069	87.0	0.244	1927
LPG070	53.9	0.250	1927
LPG071	83.6	0.395	1278
LPG072	63.5	0.378	1927
LPG073	56.0	0.401	473
LPG074	94.8	0.284	345
LPG075	76.0	0.188	776
LPG076	48.4	0.222	934
LPG077	56.1	0.265	472
LPG078	68.6	0.449	628
LPG079	90.3	0.294	1183
LPG080	62.7	0.277	628
LPG081	59.5	0.268	619
LPG082	80.5	0.291	665
LPG083	50.4	0.214	458
LPG084	95.0	0.259	739
LPG085	43.1	0.193	1926
LPG086	67.0	0.288	1928

Item ID	% Correct	Correlation	No. Examinees
LPG087	62.0	0.414	1925
LPG088	74.5	0.247	809
LPG089	36.0	0.161	653
LPG090	62.6	0.372	1293
LPG091	51.2	0.231	766
LPG092	61.1	0.311	455
LPG093	56.6	0.259	768
LPG094	44.3	0.148	623
LPG095	53.2	0.316	904
LPG096	69.6	0.174	448
LPG097	67.9	0.115	1924
LPG098	71.7	0.333	484
LPG099	71.0	0.382	518
LPG100	80.0	0.338	1927
LPG101	47.7	0.270	421
LPG102	41.5	0.320	318
LPG103	77.0	0.436	713
LPG104	46.7	0.437	1926
LPG105	53.9	0.287	386
LPG106	75.5	0.358	265
LPG107	65.0	0.164	514
LPG108	83.9	0.393	1026
LPG109	75.0	0.375	1926
LPG110	59.9	0.389	464
LPG111	87.5	0.420	359
LPG112	78.4	0.286	436
LPG113	65.9	0.388	970
LPG114	88.9	0.237	395
LPG115	54.8	0.109	688
LPG116	64.5	0.235	836
LPG117	56.8	0.192	389
LPG118	87.1	0.342	556
LPG119	44.4	0.198	505
LPG120	54.2	0.283	1192
LPG121	50.4	0.290	1380
LPG122	56.7	0.371	612
LPG123	39.4	0.070	462
LPG124	48.8	0.432	299
LPG125	53.1	0.223	729
LPG126	25.3	-0.137	1928
LPG127	40.5	0.217	1928
LPG128	47.2	0.329	752

### Life Producer State Item Statistics

Item ID	% Correct	Correlation	No. Examinees
AHG001	90.6	0.331	1466
AHG002	78.8	0.516	709
AHG003	85.2	0.224	1010
AHG004	78.7	0.255	253
AHG005	80.5	0.268	215
AHG006	89.7	0.398	773
AHG007	46.1	0.276	679
AHG008	84.2	0.485	316
AHG009	93.6	0.276	760
AHG010	75.1	0.420	269
AHG011	96.4	0.273	801
AHG012	81.1	0.403	731
AHG013	75.7	0.308	243
AHG014	81.0	0.212	232
AHG015	69.9	0.245	755
AHG016	67.2	0.327	403
AHG017	90.6	0.259	384
AHG018	91.2	0.139	1466
AHG019	71.4	0.272	735
AHG020	61.7	0.308	746
AHG021	65.5	0.461	440
AHG022	73.3	0.309	1466
AHG023	45.1	0.262	741
AHG024	74.0	0.396	701
AHG025	31.9	-0.001	576
AHG026	67.5	0.256	757
AHG027	77.9	0.209	710
AHG028	86.8	0.444	795
AHG029	75.0	0.417	667
AHG030	86.7	0.256	1465
AHG031	78.3	0.407	732
AHG032	83.6	0.207	712
AHG033	50.9	0.295	719
AHG034	75.8	0.336	740
AHG035	89.3	0.304	636
AHG036	57.8	0.179	729
AHG037	62.2	0.338	283
AHG038	89.7	0.323	300
AHG039	88.0	0.305	718
AHG040	88.5	0.253	209
AHG041	37.3	0.186	169
AHG042	50.6	0.380	1466
AHG043	81.7	0.330	1467

Item ID	% Correct	Correlation	No. Examinees
AHG044	90.6	0.354	586
AHG045	90.2	0.351	721
AHG046	62.3	0.242	175
AHG047	68.0	0.372	738
AHG048	87.7	0.190	897
AHG049	94.8	0.303	1467
AHG050	96.9	0.235	1467
AHG051	92.0	0.366	364
AHG052	90.0	0.399	1467
AHG053	62.7	0.368	209
AHG054	97.1	0.240	313
AHG055	86.4	0.475	301
AHG056	77.0	0.155	1467
AHG057	96.1	0.278	953
AHG058	46.1	0.171	764
AHG059	55.5	0.186	715
AHG060	80.4	0.444	729
AHG061	62.1	0.109	728
AHG062	82.1	0.343	521
AHG063	92.9	0.264	198
AHG064	73.2	0.305	190
AHG065	88.0	0.297	651
AHG066	79.2	0.296	739
AHG067	70.4	0.113	753
AHG068	86.4	0.458	734
AHG069	68.1	0.382	1467
AHG070	55.7	0.410	167
AHG071	51.3	0.091	152
AHG072	47.5	0.113	162
AHG073	79.6	0.488	191
AHG074	50.9	0.208	642
AHG075	70.3	0.130	1467
AHG076	93.5	0.308	1467
AHG077	59.1	0.219	1464
AHG078	69.6	0.272	688
AHG079	70.3	0.453	532
AHG080	90.5	0.237	494
AHG081	65.4	0.356	497
AHG082	95.1	0.256	695
AHG083	75.1	0.380	788
AHG084	68.8	0.340	628
AHG085	94.3	0.304	477
AHG086	77.9	0.374	458
AHG087	78.3	0.353	423
AHG088	93.3	0.252	1466

Item ID	% Correct	Correlation	No. Examinees
AHG089	81.8	0.253	1466
AHG090	81.6	0.318	718
AHG091	86.8	0.332	970
AHG092	83.6	0.228	1466
AHG093	50.6	0.364	726
AHG094	56.0	0.274	1467
AHG095	63.1	0.252	750
AHG096	94.7	0.291	1467
AHG097	94.9	0.354	509
AHG098	99.2	0.179	1465
AHG099	79.4	0.362	830
AHG100	90.2	0.295	1466
AHG101	77.5	0.342	1466
AHG102	69.8	0.110	706
AHG103	87.3	0.386	481
AHG104	63.4	0.271	1463
AHG105	49.7	0.374	712
AHG106	84.9	0.288	1466
AHG107	50.6	0.319	168
AHG108	48.5	0.402	754
AHG109	76.1	0.272	1466
AHG110	29.3	0.104	748
AHG111	62.8	0.061	1466
AHG112	65.3	0.457	1467

### Accident and Health Producer General Item Statistics

Item ID	% Correct	Correlation	No. Examinees
AHG001	90.6	0.331	1466
AHG002	78.8	0.516	709
AHG003	85.2	0.224	1010
AHG004	78.7	0.255	253
AHG005	80.5	0.268	215
AHG006	89.7	0.398	773
AHG007	46.1	0.276	679
AHG008	84.2	0.485	316
AHG009	93.6	0.276	760
AHG010	75.1	0.420	269
AHG011	96.4	0.273	801
AHG012	81.1	0.403	731
AHG013	75.7	0.308	243
AHG014	81.0	0.212	232
AHG015	69.9	0.245	755
AHG016	67.2	0.327	403
AHG017	90.6	0.259	384
AHG018	91.2	0.139	1466
AHG019	71.4	0.272	735
AHG020	61.7	0.308	746
AHG021	65.5	0.461	440
AHG022	73.3	0.309	1466
AHG023	45.1	0.262	741
AHG024	74.0	0.396	701
AHG025	31.9	-0.001	576
AHG026	67.5	0.256	757
AHG027	77.9	0.209	710
AHG028	86.8	0.444	795
AHG029	75.0	0.417	667
AHG030	86.7	0.256	1465
AHG031	78.3	0.407	732
AHG032	83.6	0.207	712
AHG033	50.9	0.295	719
AHG034	75.8	0.336	740
AHG035	89.3	0.304	636
AHG036	57.8	0.179	729
AHG037	62.2	0.338	283
AHG038	89.7	0.323	300
AHG039	88.0	0.305	718
AHG040	88.5	0.253	209
AHG041	37.3	0.186	169
AHG042	50.6	0.380	1466
AHG043	81.7	0.330	1467

Item ID	% Correct	Correlation	No. Examinees
AHG044	90.6	0.354	586
AHG045	90.2	0.351	721
AHG046	62.3	0.242	175
AHG047	68.0	0.372	738
AHG048	87.7	0.190	897
AHG049	94.8	0.303	1467
AHG050	96.9	0.235	1467
AHG051	92.0	0.366	364
AHG052	90.0	0.399	1467
AHG053	62.7	0.368	209
AHG054	97.1	0.240	313
AHG055	86.4	0.475	301
AHG056	77.0	0.155	1467
AHG057	96.1	0.278	953
AHG058	46.1	0.171	764
AHG059	55.5	0.186	715
AHG060	80.4	0.444	729
AHG061	62.1	0.109	728
AHG062	82.1	0.343	521
AHG063	92.9	0.264	198
AHG064	73.2	0.305	190
AHG065	88.0	0.297	651
AHG066	79.2	0.296	739
AHG067	70.4	0.113	753
AHG068	86.4	0.458	734
AHG069	68.1	0.382	1467
AHG070	55.7	0.410	167
AHG071	51.3	0.091	152
AHG072	47.5	0.113	162
AHG073	79.6	0.488	191
AHG074	50.9	0.208	642
AHG075	70.3	0.130	1467
AHG076	93.5	0.308	1467
AHG077	59.1	0.219	1464
AHG078	69.6	0.272	688
AHG079	70.3	0.453	532
AHG080	90.5	0.237	494
AHG081	65.4	0.356	497
AHG082	95.1	0.256	695
AHG083	75.1	0.380	788
AHG084	68.8	0.340	628
AHG085	94.3	0.304	477
AHG086	77.9	0.374	458
AHG087	78.3	0.353	423
AHG088	93.3	0.252	1466



Item ID	% Correct	Correlation	No. Examinees
AHG089	81.8	0.253	1466
AHG090	81.6	0.318	718
AHG091	86.8	0.332	970
AHG092	83.6	0.228	1466
AHG093	50.6	0.364	726
AHG094	56.0	0.274	1467
AHG095	63.1	0.252	750
AHG096	94.7	0.291	1467
AHG097	94.9	0.354	509
AHG098	99.2	0.179	1465
AHG099	79.4	0.362	830
AHG100	90.2	0.295	1466
AHG101	77.5	0.342	1466
AHG102	69.8	0.110	706
AHG103	87.3	0.386	481
AHG104	63.4	0.271	1463
AHG105	49.7	0.374	712
AHG106	84.9	0.288	1466
AHG107	50.6	0.319	168
AHG108	48.5	0.402	754
AHG109	76.1	0.272	1466
AHG110	29.3	0.104	748
AHG111	62.8	0.061	1466
AHG112	65.3	0.457	1467

### Accident and Health Producer State Item Statistics

Item ID	% Correct	Correlation	No. Examinees
AHS001	75.1	0.254	497
AHS002	88.3	0.313	111
AHS003	92.2	0.200	115
AHS004	97.5	0.259	118
AHS005	74.7	0.368	99
AHS006	66.2	0.230	995
AHS007	70.8	0.261	1000
AHS008	80.0	0.321	504
AHS009	84.0	0.185	487
AHS010	71.7	0.400	120
AHS011	64.1	0.461	128
AHS012	89.2	0.228	1474
AHS013	79.9	0.334	149
AHS014	91.3	0.161	149
AHS015	96.5	0.159	115
AHS016	57.5	0.333	457
AHS017	76.0	0.478	121
AHS018	75.4	0.386	398
AHS019	81.0	0.286	485
AHS020	67.7	0.269	480
AHS021	87.5	0.311	272
AHS022	93.1	0.193	478
AHS023	99.1	0.143	117
AHS024	96.8	0.267	495
AHS025	34.1	0.166	511
AHS026	79.7	0.300	354
AHS027	75.6	0.422	954
AHS028	86.3	0.386	234
AHS029	95.6	0.145	339
AHS030	68.8	0.394	385
AHS031	78.7	0.413	982
AHS032	78.5	0.324	492
AHS033	73.4	0.260	1006
AHS034	65.4	0.357	736
AHS035	70.2	0.390	739
AHS036	74.0	0.336	965
AHS037	92.5	0.259	134
AHS038	94.2	0.234	1476
AHS039	90.1	0.306	507
AHS040	94.4	0.255	450
AHS041	89.2	0.229	491
AHS042	67.2	0.347	256
AHS043	80.3	0.325	244

Item ID	% Correct	Correlation	No. Examinees
AHS044	99.6	0.072	757
AHS045	90.2	0.266	530
AHS046	73.4	0.318	1475
AHS047	74.2	0.284	1476
AHS048	80.7	0.470	373
AHS049	41.5	0.283	241
AHS050	32.9	0.162	228
AHS051	95.5	0.276	330
AHS052	98.0	0.237	393
AHS053	82.0	0.376	511
AHS054	45.9	0.326	1476
AHS055	45.6	0.350	700
AHS056	30.3	0.362	379

### LAH Combo Producer General Item Statistics

Item ID	% Correct	Correlation	No. Examinees
LCG001	83.0	0.349	989
LCG002	58.2	0.345	1203
LCG003	73.2	0.273	1651
LCG004	88.5	0.295	2489
LCG005	71.4	0.283	1201
LCG006	79.3	0.387	1230
LCG007	81.8	0.271	957
LCG008	88.1	0.364	1240
LCG009	43.9	0.250	1286
LCG010	83.3	0.130	384
LCG011	85.6	0.363	418
LCG012	85.5	0.378	1034
LCG013	66.8	0.246	1008
LCG014	65.9	0.351	1301
LCG015	53.2	0.050	2488
LCG016	88.4	0.341	1676
LCG017	89.4	0.357	1244
LCG018	66.2	0.395	2490
LCG019	57.6	0.273	2489
LCG020	95.9	0.202	1579
LCG021	74.5	0.336	361
LCG022	49.9	0.376	441
LCG023	82.4	0.221	425
LCG024	86.1	0.458	628
LCG025	77.8	0.412	1002
LCG026	75.7	0.341	2489
LCG027	78.1	0.267	2489
LCG028	86.9	0.322	2489
LCG029	85.0	0.189	2489
LCG030	72.9	0.153	2488
LCG031	62.0	0.367	2488
LCG032	84.4	0.191	1786
LCG033	87.4	0.334	799
LCG034	86.2	0.284	1043
LCG035	51.8	0.087	1071
LCG036	93.0	0.204	2488
LCG037	87.3	0.334	1020
LCG038	80.6	0.241	2490
LCG039	82.7	0.188	1663
LCG040	61.7	0.330	2490
LCG041	79.1	0.327	1673
LCG042	75.8	0.307	2488
LCG043	58.1	0.251	2489

Item ID	% Correct	Correlation	No. Examinees
LCG044	62.9	0.223	895
LCG045	91.9	0.275	1721
LCG046	93.2	0.306	953
LCG047	90.3	0.296	493
LCG048	92.2	0.306	2490
LCG049	71.1	0.194	484
LCG050	36.4	0.225	2488
LCG051	62.3	0.309	494
LCG052	77.0	0.354	974
LCG053	87.2	0.356	2489
LCG054	61.6	0.347	1665
LCG055	63.4	0.229	2488
LCG056	63.5	0.356	2490
LCG057	57.3	0.318	1645
LCG058	40.6	0.426	825
LCG059	75.4	0.390	627
LCG060	83.2	0.121	2489
LCG061	67.2	0.317	2488
LCG062	92.2	0.288	2489
LCG063	80.9	0.212	2489
LCG064	88.0	0.271	2490
LCG065	76.3	0.241	859
LCG066	97.1	0.288	2489
LCG067	96.4	0.185	2489
LCG068	92.1	0.357	2489
LCG069	59.2	0.328	515
LCG070	96.4	0.297	749
LCG071	79.7	0.338	846
LCG072	75.3	0.146	2489
LCG073	93.0	0.296	2489
LCG074	61.6	0.231	2489
LCG075	79.3	0.279	2488
LCG076	63.4	0.071	2489
LCG077	67.7	0.331	1256
LCG078	75.4	0.474	2489
LCG079	94.2	0.172	465
LCG080	78.3	0.204	498
LCG081	92.4	0.251	2487
LCG082	48.2	0.360	2488
LCG083	69.1	0.405	2489
LCG084	52.0	0.142	1232
LCG085	75.2	0.299	2490
LCG086	93.1	0.223	2490
LCG087	70.1	0.279	2489
LCG088	61.6	0.167	2489

Item ID	% Correct	Correlation	No. Examinees
LCG089	84.6	0.235	2488
LCG090	96.2	0.188	1253
LCG091	37.4	0.164	2489
LCG092	62.5	0.323	2489
LCG093	71.3	0.382	2490
LCG094	63.1	0.211	961
LCG095	52.1	0.209	804
LCG096	58.2	0.329	1662
LCG097	71.2	0.306	1033
LCG098	46.0	0.194	1024
LCG099	65.0	0.304	993
LCG100	79.2	0.211	606
LCG101	62.6	0.070	2489
LCG102	39.0	0.117	2490
LCG103	58.1	0.387	1240
LCG104	69.6	0.421	626
LCG105	74.8	0.353	630
LCG106	80.1	0.367	1250
LCG107	53.1	0.273	2489
LCG108	79.3	0.189	2490
LCG109	72.7	0.265	2489
LCG110	65.1	0.326	2489
LCG111	52.3	0.316	2488
LCG112	74.4	0.401	2488
LCG113	52.0	0.422	2490
LCG114	64.1	0.029	2489
LCG115	93.9	0.314	2490
LCG116	87.5	0.328	2489
LCG117	75.6	0.312	2489
LCG118	69.1	0.434	1565
LCG119	78.1	0.078	1046
LCG120	72.1	0.440	2488
LCG121	50.8	0.085	1083
LCG122	71.6	0.263	905
LCG123	59.1	0.200	700
LCG124	89.2	0.275	686
LCG125	40.9	0.292	474
LCG126	89.0	0.327	2489
LCG127	76.1	0.303	2490
LCG128	74.1	0.189	2489
LCG129	87.6	0.250	2490
LCG130	74.4	0.271	2490
LCG131	80.7	0.320	2489
LCG132	85.5	0.308	2489
LCG133	75.8	0.228	2490

Item ID	% Correct	Correlation	No. Examinees
LCG134	72.9	0.174	2490
LCG135	75.2	0.399	2489
LCG136	88.5	0.312	2489
LCG137	68.4	0.306	2488
LCG138	56.2	0.270	2489
LCG139	47.1	0.030	1625
LCG140	51.1	0.251	2490
LCG141	21.9	-0.010	2489
LCG142	63.6	0.219	2488
LCG143	90.4	0.269	2489
LCG144	55.8	0.298	1017
LCG145	47.9	0.301	2489
LCG146	72.4	0.230	2489
LCG147	13.4	-0.196	2488
LCG148	37.9	0.276	2488
LCG149	68.8	0.072	2488
LCG150	55.2	0.315	999
LCG151	77.0	0.380	2489

### LAH Combo Producer State Item Statistics

Item ID	% Correct	Correlation	No. Examinees
LCS001	82.0	0.366	778
LCS002	87.9	0.365	1500
LCS003	75.1	0.298	1541
LCS004	73.4	0.388	1475
LCS005	64.3	0.238	814
LCS006	67.1	0.372	751
LCS007	82.6	0.279	598
LCS008	85.6	0.256	737
LCS009	86.8	0.247	438
LCS010	63.9	0.320	432
LCS011	88.6	0.292	484
LCS012	48.3	0.228	422
LCS013	59.7	0.296	745
LCS014	89.3	0.264	776
LCS015	72.9	0.301	505
LCS016	62.1	0.361	570
LCS017	73.2	0.477	276
LCS018	75.0	0.350	728
LCS019	81.8	0.328	555
LCS020	85.4	0.410	267
LCS021	74.4	0.314	293
LCS022	64.1	0.381	733
LCS023	67.5	0.390	710
LCS024	90.4	0.286	385
LCS025	92.6	0.218	298
LCS026	66.3	0.380	300
LCS027	98.0	0.178	454
LCS028	97.8	0.311	546
LCS029	32.1	0.190	551
LCS030	80.8	0.314	551
LCS031	69.2	0.336	689
LCS032	87.7	0.304	358
LCS033	84.9	0.319	284
LCS034	95.8	0.176	577
LCS035	74.4	0.399	574
LCS036	69.4	0.260	756
LCS037	88.7	0.163	793
LCS038	73.2	0.173	462
LCS039	78.0	0.449	709
LCS040	78.1	0.333	744
LCS041	68.0	0.336	763
LCS042	70.8	0.274	1081
LCS043	65.8	0.375	1176



Item ID	% Correct	Correlation	No. Examinees
LCS044	62.3	0.324	786
LCS045	92.4	0.293	712
LCS046	69.2	0.364	295
LCS047	91.4	0.258	244
LCS048	95.4	0.277	495
LCS049	83.5	0.339	734
LCS050	96.2	0.264	291
LCS051	60.2	0.346	372
LCS052	89.5	0.271	382
LCS053	88.0	0.290	617
LCS054	71.2	0.311	1137
LCS055	60.4	0.366	1117
LCS056	83.0	0.381	2257
LCS057	46.8	0.165	374
LCS058	48.5	0.395	307
LCS059	38.6	0.172	386
LCS060	88.4	0.303	292
LCS061	82.8	0.328	785
LCS062	94.7	0.282	264
LCS063	97.2	0.272	287
LCS064	56.9	0.284	436
LCS065	52.4	0.449	783
LCS066	88.8	0.375	258
LCS067	46.5	0.301	471
LCS068	60.7	0.308	412
LCS069	76.6	0.437	739
LCS070	42.9	0.235	597
LCS071	47.6	0.242	288
LCS072	40.7	0.329	536
LCS073	97.0	0.296	271