



## MEMORANDUM

DATE January 9, 2023

TO: Members, Licensing and Examinations Committee

FROM: Kristy Underwood, Executive Officer

SUBJECT: Review and Discussion of the Exam Pass Rates

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### **Background**

The Board reports on its examination pass and fail scores for each of its licensing categories at every Board meeting. In addition to the overall pass rate, the Board reports the pass rate by language of exam as well as by pathway to examination eligibility (traditional school, apprenticeship program, out of state/country). The Board has historically seen lower passage rates in the Spanish exam and recently has seen a drop in the overall scores for both the barbering and cosmetology exam pass rates. The Board implemented a reduction of hours for both barbering and cosmetology on January 1, 2022 and implemented a new exam on July 1, 2022. However, it is not clear if either of these factors have a direct impact to the examination pass rates.

In a review of total examination pass rates for the last 5 years, the scores have remained fairly consistent as indicated in the table below:

### **OVERALL PASS RATE**

	2018	2019	2020	2021	2022
Barber	59%	44%	52%	57%	47%
Cosmetology	58%	58%	57%	58%	53%
Electrology	63%	74%	60%	78%	74%
Esthetician	76%	79%	73%	65%	65%
Manicurist	69%	72%	72%	70%	61%

The pass rates for candidates who took the exam in Spanish and apprentices have also been fairly consistent, though much lower than the overall pass rates of all categories combined:

**SPANISH**

	2018	2019	2020	2021	2022
Barber	49%	21%	25%	30%	21%
Cosmetology	32%	33%	36%	31%	22%
Esthetician	45%	43%	42%	38%	45%
Manicurist	49%	51%	45%	58%	53%

\*No electrologists took the examination in Spanish.

**APPRENTICE**

	2018	2019	2020	2021	2022
Barber	48%	28%	43%	46%	38%
Cosmetology	38%	38%	40%	36%	27%

**SCHOOLS ONLY**

	2018	2019	2020	2021	2022
Barber	64%	45%	60%	63%	53%
Cosmetology	64%	64%	62%	65%	61%
Electrology	63%	81%	50%	78%	76%
Esthetician	76%	79%	74%	65%	65%
Manicurist	69%	73%	73%	71%	61%

The issue of low Spanish passage rates has historically been discussed at the Board’s Sunset Review. As such, significant work has been completed to determine a cause for the low passage rates. Board staff have worked with the exam vendor to ensure translations are adequate, there have been town hall meetings with schools, the examination is displayed in both English and Spanish on the examinations, and translation guides have been provided to all schools. Despite these efforts, the examination scores have not significantly improved.

**School Performance**

Board staff recently reviewed pass rates by each school to determine if targeted outreach could be provided. What was found, was that many schools that are currently performing poorly have been performing poorly for multiple years. It should be noted that there are no laws or regulations that require a school to maintain a minimum pass rate on examinations.

The attached charts show pass rates for all license types by each school. The pass rates displayed are for the years 2019, 2020, 2021 and 2022. The data for 2022 is separated by the previous examination, which ended June 30, 2022, and the current examination that was implemented on July 1, 2022.

In reviewing the pass rates by school, the following was found:

### **147 Schools offering a Barber Program**

20% of those schools have had a pass rate of 50% or lower for the last 4 years.

22% of those schools have had a pass rate of 60% or lower for the last 4 years.

### **202 Schools offering a Cosmetology Program**

17% of those schools have had a pass rate of 60% or lower for the last 4 years.

### **In 2019:**

41% of Barber Programs had a pass rate of 50% or less.

17% of Cosmetology Programs had a pass rate of 50% or less.

### **School Oversight**

The Board has limited oversight of approved schools. The Board's oversight consists of:

- Approval of equipment and space
- Approval of curriculum (which is set in statute)
- Requirement for schools to provide textbooks.
- Inspecting for health and safety violations.

The Bureau of Private Postsecondary of Education (BPPE) has oversight over student protections as well as:

- Financial information
- Student contracts
- Quality of education
- Educational program approval

*Note: This is not a comprehensive list of the BPPE's authority.*

### **Discussion**

The Board should consider its existing authority and role in determining and improving pass/fail rates.

As noted previously, the Board has limited oversight of schools. While the Board does approve the curriculum that each school must provide, this curriculum is set in statute and prior to January 1, 2022, was set in regulation.

The Board does not oversee quality of education, it does not have the authority to visit schools and observe their teaching methods, nor does it have the resources to do so. In fact, the Board only has specific statutory authority in section 7313 (b) of the Business and Professions Code to inspect for health and safety violations of schools.

(b) To ensure compliance with health and safety requirements adopted by the board, the executive officer and authorized representatives shall, except as provided in Section 159.5, have access to, and shall inspect the premises of, all schools in which the practice of barbering, cosmetology, or electrolysis is performed on the public. Notices of violation shall be issued to schools for violations of regulations governing conditions related to the health and safety of patrons. Each notice shall specify the

section violated and a timespan within which the violation must be corrected. A copy of the notice of violation shall be provided to the Bureau for Private Postsecondary Education.

### Additional Points for Discussion

- The Board has voted in the past to ask for sole-oversight of schools. This has been discussed in multiple past sunset reviews with no success.
- The Board does not have any oversight or requirements for instructors.
- The Board does have the responsibility of ensuring the validity of the examination and has had the current examination and past examination validated by the Department of Consumer Affairs Office of Professional Examination Services.
- The Board has oversight of the minimum equipment that each school must maintain. This is verified for any new school and is verified during any inspection of a school.
- The Board requires a Proof of Training (POT) to be submitted as part of the application for the examination. The POT is a form prescribed by the Board and there are no requirements in Board laws or regulations that require back-up information (i.e. transcripts, time cards, hour tracking, etc.) to be maintained by a school to show proof that all the curriculum requirements were met.
- The Board does not receive a fee for a new school applications and there is no renewal requirement for schools.
- All work relating to schools performed by Board staff is currently unfunded.
- Many schools have moved to a hybrid plan allowing for online education, however, because the Board has no distinction of whether teaching can be done online or not, the Board has no way of knowing if schools are conducting online training, nor what the on-line training consists of.
- The Board does not approve schools to teach in a specific language, however, schools must be approved by the BPPE to teach in non-English languages.

### Possible Recommendations

1. The Board can determine what an appropriate “cut-off” pass rate is to forward school information to the BPPE.
2. The Board can develop regulations to strengthen school authority with additional requirements, however, this would create a new workload that is unfunded.
3. The Board can seek statutory authority for a school application fee and renewal fee through the legislative process.

## Barber Pass Rates by School

	New Exam		Old Exam		2022 Overall		2021		2020		2019	
	7/1/2022-12/31/2022		1/1/2022-6/30/2022		% Pass	#	% Pass	#	% Pass	#	% Pass	#
1	100%	1	80%	5	80%	6						
2	0%	8	21%	14	21%	22	40%	5	33%	3	30%	10
3	39%	18	40%	35	40%	53	47%	19	44%	9	33%	21
4	33%	3	92%	13	81%	16	100%	11	100%	2	100%	4
5	20%	5	67%	3	38%	8	67%	3	100%	4	71%	17
6	0%	4	--	6	0%	10	50%	6	50%	2	100%	3
7	6%	17	85%	13	40%	30	62%	13	79%	14	68%	19
8	75%	4	100%	3	86%	7	0%	1	100%	1	100%	1
9	69%	13	46%	13	58%	26	64%	28	59%	17	47%	19
10			100%	1	100%	1	33%	3	14%	7	43%	14
11	19%	21	18%	11	19%	32	26%	23	40%	5	50%	4
12	20%	10	71%	14	50%	24	50%	8	25%	4	50%	2
13	60%	15	54%	13	57%	28	64%	14	62%	13	49%	65
14	20%	5	100%	2	43%	7	57%	7	25%	4	83%	6
15	38%	24	82%	22	59%	46	93%	54	82%	17	75%	65
16	20%	35	78%	36	49%	71	77%	61	63%	41	40%	104
17	31%	13	72%	18	55%	31	44%	25	50%	10	38%	22
18	36%	11	56%	25	50%	36	48%	25	70%	20	44%	48
19	0%	9	78%	9	39%	18	70%	10	67%	8	46%	37
20	54%	26	73%	33	64%	59	62%	52	67%	27	63%	64
21	0%	2	100%	2	50%	4	50%	8			50%	2
22	58%	19	86%	21	73%	40	72%	46	64%	22	82%	45
23	67%	3	--	2	40%	5			67%	3		
24	50%	2			50%	2						
25	25%	8	80%	10	56%	18	50%	10	33%	9	8%	12
26	60%	5	100%	2	71%	7						
27	0%	4	100%	6	60%	10	50%	4	33%	6	43%	14
28	31%	13	14%	7	25%	20	33%	3	100%	1	60%	5
29	13%	8	73%	22	57%	30	73%	60	81%	16	83%	66
30			67%	6	67%	6	33%	3	50%	2	100%	2
31	33%	21	77%	39	62%	60	64%	39	57%	14	70%	37
32	57%	8	50%	2	56%	10			90%	10	77%	44
33	53%	30	100%	38	79%	68	94%	32	100%	20	94%	31
34	75%	4	83%	6	80%	10	100%	2	50%	6	62%	26
35	100%	1	50%	2	67%	3	100%	2	100%	1		
36	47%	17	40%	5	45%	22	19%	16	38%	13	35%	20
37	8%	12	64%	25	46%	37	48%	27	25%	8	37%	27
38			--	3	0%	3	67%	3	75%	4	92%	12
39	13%	8	67%	6	36%	14	50%	6	78%	9	76%	17
40	0%	1	100%	1	50%	2	100%	1	40%	5	25%	8
41	31%	16	86%	22	63%	38	64%	22	58%	19	43%	42
42	0%	3	82%	11	64%	14	62%	13	57%	7	50%	8

43	44%	9	100%	1	50%	10	83%	6	88%	8	67%	3
44	48%	31	95%	22	68%	53	92%	38	73%	30	40%	65
45	36%	11	90%	10	62%	21	83%	18	83%	6	55%	11
46	0%	4	57%	14	44%	18	16%	19	43%	14	32%	34
47	0%	1	--	1	0%	2						
48	67%	3	100%	2	80%	5	38%	8	83%	6	69%	16
49	38%	24	86%	35	66%	59	95%	37	91%	23	39%	54
50	50%	2	80%	25	78%	27	76%	21	0%	3	78%	9
51	50%	22	72%	43	65%	65	69%	54	75%	20	56%	95
52	28%	32	45%	22	35%	54	66%	35	56%	18	52%	44
53	75%	4	25%	12	38%	16	50%	8	100%	1	60%	10
54	24%	34	64%	28	42%	62	57%	37	43%	7	53%	17
55	31%	16	50%	12	39%	28	14%	7	30%	10	0%	2
56	50%	2	100%	1	67%	3	0%	1	0%	1	0%	4
57	0%	1	50%	2	33%	3						
58	14%	7	63%	19	50%	26	83%	18	92%	13	86%	35
59	33%	12	20%	5	29%	17	50%	6	100%	1	100%	7
60	47%	17	53%	15	50%	32	78%	18	77%	13	67%	9
61	25%	28	60%	20	40%	48	69%	36	56%	41	44%	68
62	43%	14	65%	20	56%	34	55%	20	86%	22	53%	38
63	44%	39	85%	34	63%	73	65%	20	100%	6	57%	14
64	42%	12	92%	13	68%	25	68%	19	83%	6	57%	14
65	56%	9	91%	11	75%	20	100%	6	83%	6	25%	4
66	19%	16	74%	27	53%	43	67%	21	39%	23	37%	60
67	0%	3	33%	3	17%	6	33%	3	0%	2	17%	6
68	16%	19	52%	29	38%	48	68%	19	83%	6	76%	17
69	17%	6	100%	1	100%	7	63%	16	67%	3	64%	38
70	100%	1	75%	4	40%	5						
71	100%	1	50%	2	67%	3	100%	3	43%	7	45%	11
72	13%	15	100%	24	67%	39	35%	26	55%	11	38%	8
73	44%	18	29%	7	40%	25	38%	21	50%	8	33%	3
74	55%	20	56%	9	55%	29	50%	18	29%	7	57%	14
75	23%	22	50%	18	34%	40	87%	31	83%	29	60%	53
76	23%	31	83%	30	52%	61	65%	26	33%	9	70%	10
77	50%	2	100%	1	67%	3						
78	23%	13	38%	8	29%	21	33%	6	100%	4	47%	15
79	38%	34	60%	30	48%	64	59%	29	46%	28	38%	73
80			33%	3	33%	3	38%	8	36%	11	50%	8
81	100%	1			100%	1						
82	48%	21	88%	8	59%	29	89%	28	74%	19	49%	43
83	20%	5	33%	3	25%	8	30%	10	25%	8	40%	20
84	33%	3	13%	8	18%	11	17%	12	29%	7	18%	22
85	25%	20	75%	12	44%	32	56%	32	67%	9	77%	35
86	0%	4	14%	7	9%	11						
87	22%	9	70%	10	47%	19	67%	12	53%	15	51%	61
88	0%	3	100%	1	25%	4					36%	11
89	50%	6	60%	10	56%	16	61%	23	0%	3	63%	19
90	50%	10	43%	7	47%	17	50%	10	33%	3	100%	1

91	22%	9	55%	11	40%	20	67%	6	80%	5	47%	17
92	0%	1			0%	1			29%	7	25%	20
93	25%	8	50%	6	43%	14	100%	2	70%	10	51%	35
94	47%	17	67%	2	48%	19	80%	5				
95	0%	1	50%	4	40%	5	40%	5	25%	4	58%	12
96			80%	5	80%	5	40%	10	53%	17	11%	19
97	48%	27	48%	27	48%	54	58%	36	43%	14	43%	49
98	50%	8	56%	9	53%	17	55%	11	0%	1		
99	17%	24	67%	9	30%	33	68%	25	92%	12	47%	30
100	44%	9	48%	21	47%	30	44%	18	50%	6	64%	22
101			65%	17		17	63%	30	57%	7	71%	31
102	0%	1	83%	6	71%	7	100%	1				
103	42%	19	100%	5	54%	24	56%	9	80%	5	36%	14
104	39%	18	67%	12	48%	30	61%	23	75%	16	67%	27
105	56%	9	92%	13	77%	22	95%	20	100%	7	88%	25
106	59%	17	68%	19	64%	36	92%	13	100%	2	78%	9
107	59%	17	75%	16	67%	33	47%	15	82%	17	81%	16
108	29%	7	55%	11	44%	18	33%	3	80%	10	68%	19
109	100%	4	100%	5	100%	9	67%	3	0%	1	75%	4
110	3%	39	79%	43	43%	82	59%	41	46%	26	55%	38
111	4%	25	68%	41	44%	66	73%	26	82%	22	58%	76
112	30%	10	17%	6	25%	16	0%	5	40%	10	34%	38
113	20%	5	57%	7	42%	12	0%	1	40%	5	29%	17
114	50%	6	70%	10	63%	16	44%	9	100%	4	67%	9
115	50%	10	76%	17	67%	27	71%	21	78%	18	76%	29
116	33%	30	86%	74	71%	104	60%	98	42%	66	28%	113
117	0%	3	33%	3	17%	6	14%	7	0%	13	20%	25
118	100%	1	--	2	33%	3	63%	8	25%	4	0%	3
119	0%	1	--	3	0%	4	100%	1			100%	2
120	30%	10	86%	14	63%	24	63%	32	44%	18	79%	19
121	60%	5	57%	7	58%	12	45%	11	56%	16	44%	34
122	67%	6	50%	4	60%	10	83%	6	50%	3	80%	5
123	0%	1	67%	12	62%	13	67%	6	38%	13	32%	22
124	100%	4	100%	3	100%	7	64%	14	44%	9	63%	19
125	100%	1			100%	1	0%	2	100%	1	33%	3
126	100%	3	100%	3	100%	6	72%	25	100%	9	74%	31
127	40%	5			40%	5	67%	3	0%	2	25%	4
128	0%	5	50%	6	27%	11	42%	12	40%	10	38%	24
129			100%	1	100%	1	100%	4				
130	55%	11	75%	4	60%	15	79%	14			88%	8
131	42%	12	43%	14	42%	26	52%	23	67%	6	36%	14
132	100%	3	100%	6	100%	9	50%	4	50%	4	65%	17
133	100%	5	100%	2	100%	7	100%	4	100%	1		
134	50%	2	--	2	25%	4						
135	33%	6	78%	9	60%	15	81%	31	62%	13	44%	27
136	0%	1	50%	4	40%	5	27%	15	31%	16	40%	73
137	50%	2	90%	10	83%	12	45%	11				
138	31%	36	91%	35	61%	71	91%	66	88%	26	86%	88

139	33%	9	94%	16	72%	25	85%	27	80%	15	73%	30
140	0%	7	44%	9	25%	16	67%	6	50%	2	20%	5
141	33%	3	--	1	25%	4	100%	2	100%	1	100%	6
142	25%	4	71%	14	61%	18	38%	13	80%	5	50%	10
143	52%	27	100%	16	70%	43	93%	30	100%	12	96%	26
144	26%	42	72%	58	50%	100	60%	43	55%	29	58%	62
145	0%	6	14%	7	8%	13	0%	4	50%	4	54%	37
146	50%	2	--	1	33%	3						
147	50%	38	59%	22	53%	60	67%	45	50%	10	47%	32

Blank spaces=no candidates were examined.





## Cosmetology Pass Rates by School

	New Exam		Ols Exam									
	7/1/2022-12/31/2022		1/1/2022-6/30/2022		2022 Overall		2021		2020		2019	
	% Pass	#	% Pass	# Candidates	% Pass	#	% Pass	#	% Pass	#	% Pass	#
1	0%	1			0%	1						
2	20%	15	100%	4	37%	19						
3	64%	11	46%	13	54%	24	65%	17	70%	10	33%	21
4	25%	8	50%	4	33%	12	17%	6	38%	13	45%	22
5	36%	11	67%	9	50%	20	57%	14	90%	10	71%	14
6	23%	13	55%	20	42%	33	57%	7	73%	11	46%	35
7	56%	9	33%	3	50%	12	50%	6	50%	8	43%	7
8	13%	8	57%	30	47%	38	62%	13	50%	14	59%	22
9	83%	12	85%	13	8%	25	89%	18	75%	12	82%	39
10	54%	13	74%	31	68%	44	59%	49	74%	23	77%	43
11	38%	24	57%	21	47%	45	59%	41	63%	38	75%	68
12	70%	10	60%	10	65%	20	50%	16	80%	10	50%	6
13	50%	2	100%	1	67%	3	50%	2	0%	3	42%	12
14	19%	37	21%	35	25%	72	27%	41	38%	26	63%	41
15	67%	3	89%	9	83%	12					60%	25
16	46%	24	40%	10	44%	34	64%	22	70%	10	75%	4
17	--	3	67%	3	33%	6	40%	5			100%	1
18	--	1	70%	10	64%	11						
19	50%	4	100%	8	83%	12	85%	20	100%	2	100%	11
20	25%	8	100%	5	54%	13	96%	28	100%	9	81%	26
21	21%	19	89%	53	71%	72	85%	27	92%	24	71%	56
22	53%	30	74%	31	64%	61	76%	46	88%	17	89%	27
23	64%	14	67%	18	66%	32	63%	24	20%	10	70%	20
24	60%	5	100%	3	75%	8	80%	5				
25	67%	9	73%	30	72%	39	47%	19	50%	12	50%	20
26	14%	7	50%	4	27%	11	75%	4	67%	3	82%	11
27	46%	26	60%	20	52%	46	61%	62	59%	27	58%	76
28	48%	23	53%	19	50%	42	67%	21	59%	17	70%	44
29	49%	43	77%	39	62%	82	66%	126	65%	26	69%	72
30	75%	16	88%	8	79%	24	45%	22	50%	12	67%	15
31	67%	6	25%	4	50%	10	71%	7	100%	1	57%	7
32	50%	2	--	1	33%	3						
33	100%	1			100%	1	100%	1				
34	86%	21	85%	20	85%	41	88%	41	74%	27	89%	44
35	45%	11	63%	16	56%	27	100%	11	38%	8	62%	26
36	29%	7	73%	15	59%	22	67%	18	44%	16	59%	37
37	50%	2	100%	1	67%	3						
38	46%	26	80%	40	67%	66	61%	28	64%	25	79%	19
39	88%	8	75%	8	81%	16	68%	22	77%	13	75%	4

40	75%	8	85%	13	81%	21	91%	33	81%	21	67%	46
41	69%	55			76%	111						
42	60%	40	81%	43	71%	83	70%	53	71%	34	82%	50
43	33%	3			33%	3			33%	3	70%	33
44	50%	4	50%	2	50%	6	100%	3			100%	2
45	69%	16	84%	19	77%	35	65%	17	80%	10	89%	19
46	90%	10	89%	19	90%	29	80%	25	65%	17	82%	38
47	55%	11	88%	16	74%	27	79%	19	79%	19	77%	64
48	43%	7	80%	15	68%	22	67%	9	100%	9	100%	11
49	63%	48	82%	39	71%	87	81%	63	93%	44	81%	80
50	68%	34	76%	42	72%	76	83%	30	95%	19	74%	77
51	38%	13	50%	4	41%	17	60%	25	75%	8	75%	24
52	47%	15	60%	10	52%	25	63%	8	0%	5	28%	18
53	25%	4	71%	14	61%	18	67%	36	45%	11	76%	21
54	67%	9	80%	5	71%	14	88%	8	100%	4		
55	73%	11	60%	5	69%	16	70%	10	100%	1	78%	9
56	80%	15	68%	19	74%	34	81%	21	81%	16	72%	46
57	57%	7	89%	9	75%	16	55%	11	71%	14	93%	15
58	55%	33	67%	12	58%	45	74%	31	76%	17	82%	38
59	31%	13	68%	19	53%	32	53%	15	55%	11	76%	38
60	15%	40	58%	53	40%	93	69%	54	71%	21	70%	53
61	20%	5	--	6	9%	11	23%	13	57%	7	54%	13
62	45%	33	53%	17	48%	50	69%	29	75%	20	57%	51
63	--	3	--	1	0%	4	0%	2	38%	13	52%	21
64	100%	1			100%	1						
65	--	1	--	1	0%	2						
66	50%	4	78%	9	69%	13	50%	12	50%	2	30%	10
67	58%	12	75%	20	69%	32	59%	22	85%	13	69%	54
68	70%	10	83%	6	75%	16	67%	30	88%	16	81%	21
69	29%	17	67%	21	50%	38	64%	14	100%	13	61%	36
70	83%	35	92%	37	88%	72	82%	77	83%	18	91%	57
71	10%	10	33%	9	21%	19	37%	19	14%	7	35%	20
72	69%	13	60%	5	67%	18	65%	26	54%	13	86%	29
73	100%	9	79%	14	87%	23	86%	22	88%	8	85%	13
74	25%	8	75%	8	50%	16	28%	18	33%	21	65%	23
75	75%	53	84%	102	81%	155	83%	126	86%	63	82%	105
76	100%	10	84%	19	90%	29	75%	28	100%	19	85%	34
77	50%	2	100%	2	75%	4						
78	62%	26	83%	42	75%	68	76%	59	60%	10	88%	97
79	53%	38	58%	24	55%	62	57%	14	26%	19		
80	61%	33	57%	14	60%	47	70%	27	24%	17	63%	38
81	32%	28	38%	55	36%	83	49%	70	43%	35	34%	73
82	100%	3			100%	3	75%	4	86%	7	63%	8
83	75%	20	95%	20	85%	40	95%	37	92%	12	89%	27
84	100%	4	100%	5	100%	9	89%	9	57%	7	50%	14
85	30%	30	72%	29	51%	59	81%	43	83%	18	84%	31
86	63%	19	50%	12	58%	31	69%	13	86%	7	67%	3
87	44%	9	67%	12	57%	21	57%	23	33%	43	48%	64

88	--	11	31%	13	17%	24	25%	12	63%	8	23%	22
89	43%	7	73%	11	61%	18	38%	8	79%	19	90%	29
90	27%	15	70%	37	58%	52	69%	39	53%	36	42%	59
91	47%	15	52%	23	50%	38	61%	38	71%	21	71%	45
92	36%	11	86%	21	69%	32	80%	65	71%	34	81%	52
93	43%	7	100%	2	56%	9	0%	1	100%	2	73%	11
94	67%	12	50%	4	63%	16	80%	15	47%	17	0%	5
95	76%	29	81%	21	78%	50	82%	28	100%	15	100%	5
96	56%	27	36%	58	42%	85	44%	27	33%	6		
97	40%	5	33%	6	36%	11	67%	3	17%	6	33%	12
98	10%	20	76%	33	51%	53	84%	19	65%	23	63%	52
99	39%	18	20%	5	35%	23	40%	5	82%	11	64%	14
100	15%	13	100%	6	42%	19	67%	15	80%	5		
101	75%	4	58%	12	55%	16	41%	17	56%	18	51%	43
102	65%	17	73%	11	68%	28	72%	32	74%	19	66%	65
103	100%	1	50%	2	67%	3	76%	21	100%	2	50%	2
104	57%	14	83%	6	65%	20					73%	26
105	44%	9	56%	9	50%	18	64%	13	46%	13	31%	26
106	--	1			0%	1						
107	18%	11	50%	6	29%	17	65%	23	50%	4	25%	4
108	100%	4	100%	2	100%	6						
109	52%	27	61%	33	57%	60	72%	39	78%	55	75%	79
110	61%	28	59%	22	60%	50	60%	58	70%	27	62%	79
111	73%	11	83%	12	78%	23	100%	11	78%	9	77%	26
112	63%	8	44%	9	53%	17	70%	10	80%	10	70%	10
113	91%	22	86%	14	89%	36	95%	41	100%	26	95%	61
114	26%	23	28%	18	27%	41	35%	17	52%	25	43%	23
115	33%	3	100%	5	75%	8						
116	100%	1			100%	1	100%	1				
117	43%	7	75%	4	55%	11	100%	1				
118	25%	12	40%	10	32%	22	67%	9	75%	4	100%	2
119	64%	44	74%	43	69%	87	62%	69	61%	51	46%	122
120	38%	34	61%	31	49%	65	63%	24	52%	25	56%	61
121	75%	4	82%	11	80%	15	90%	21	58%	12	64%	11
122	68%	22	83%	6	71%	28						
123	35%	37	80%	35	57%	72	57%	21	39%	31	84%	37
124	36%	14	56%	9	43%	23	72%	18	89%	9	65%	23
125	40%	5	50%	2	43%	7	75%	8	90%	10	67%	15
126	15%	13	100%	2	27%	15	38%	8	100%	4	64%	22
127	43%	14	83%	6	55%	20	75%	20	100%	3	100%	6
128	60%	5	67%	3	63%	8	71%	7	100%	1	100%	1
129	29%	7	60%	5	42%	12	100%	1	0%	2		
130	42%	24	68%	22	54%	46	85%	40	71%	17	60%	62
131	9%	45	63%	54	38%	99	50%	66	52%	46	43%	95
132	50%	2	80%	5	71%	7					100%	1
133	40%	5	50%	4	44%	9						
134	63%	19	83%	12	71%	31	92%	12	64%	11	78%	18
135	48%	27	83%	23	64%	50	43%	14	45%	11	67%	27

136	79%	34	100%	22	88%	56	91%	32	100%	19	94%	49
137	60%	10	67%	12	64%	22	57%	14	75%	16	0%	1
138	57%	21	90%	10	68%	31	83%	41	72%	18	75%	40
139	55%	73	74%	61	63%	134	62%	116	55%	55	71%	98
140	58%	62	79%	53	68%	115	57%	83	60%	53	71%	91
141	47%	81	59%	86	53%	167	68%	84	58%	97	59%	72
142	44%	52	80%	44	60%	96	69%	65	41%	29	59%	92
143	67%	46	82%	56		102	69%	148	80%	71	73%	114
144	51%	53	57%	47	54%	100	48%	67	51%	45	69%	102
145	51%	37	76%	37	64%	74	83%	53	62%	45	62%	66
146	--	1	100%	3	75%	4						
147	58%	53	73%	52	66%	105	74%	105	75%	67	77%	130
148	46%	13	--	2	40%	15					80%	54
149	56%	68	70%	94	64%	162	75%	115	67%	76	65%	182
150	62%	117	74%	97	67%	214	72%	203	82%	110	72%	207
151	50%	22	71%	14	58%	36	52%	21	33%	6	35%	37
152	50%	4	38%	8	42%	12	53%	34	50%	8	54%	13
153	25%	4			25%	4						
154	41%	54	63%	43	51%	97	53%	43	30%	37	66%	56
155	--	3	38%	8	27%	11	42%	12	50%	2	40%	10
156	25%	8	29%	7	27%	15	67%	8	67%	3	40%	5
157	41%	17	80%	35	67%	52	58%	26				
158	33%	3	--	1	25%	4	80%	5	67%	3	75%	4
159	77%	48	100%	29	86%	77	93%	45	85%	41	90%	114
160	18%	11	30%	23	26%	34	70%	10	38%	24	29%	48
161	19%	26	18%	11	19%	37	20%	5	67%	6	76%	21
162	50%	14	43%	14	46%	28	0%	4	43%	7		
163	75%	20	83%	30	80%	50	56%	27	71%	17	78%	51
164	100%	17	88%	17	80%	34	76%	17	47%	15	60%	40
165	25%	12	67%	6	39%	18	67%	9	62%	13	52%	23
166	50%	36	86%	29	66%	65	72%	54	67%	21	76%	50
167	69%	29	65%	17	67%	46	81%	37	82%	11	81%	16
168	89%	9	83%	6	87%	15	65%	17	75%	8	77%	26
169	63%	35	81%	16	69%	51	87%	52	93%	15	90%	21
170	62%	26	85%	13	69%	39	83%	36	80%	20	69%	36
171	67%	9	94%	17	85%	26	90%	31	85%	20	75%	56
172	67%	9	83%	6	73%	15	80%	5	71%	7	75%	12
173	57%	49	74%	39	80%	88	69%	51	74%	58	76%	114
174	70%	27	75%	28	65%	55	79%	19	89%	19	62%	66
175	84%	25	86%	37	85%	62	76%	41	78%	58	75%	85
176	50%	14	86%	7	62%	21	80%	5	86%	7	70%	39
177	26%	23	56%	25	42%	48	57%	51	56%	18	79%	47
178	85%	26	75%	12	82%	38	77%	44	70%	20	82%	72
179	47%	15	67%	9	54%	24	29%	7	52%	23	59%	22
180	73%	22	86%	28	80%	50	81%	36	74%	31	60%	67
181	33%	4	x	x	33%	3						
182	71%	24	85%	13	76%	37	86%	29	85%	13	67%	46
183	50%	10	78%	9	63%	19	37%	19	29%	7	34%	29

184	67%	42	75%	60	72%	102	61%	28	69%	39	60%	62
185	46%	13	100%	21	79%	34	78%	27	88%	17	89%	38
186	75%	12	87%	15	81%	27	75%	32	33%	3	74%	31
187	100%	14	100%	3	100%	17	87%	15	100%	3	93%	14
188	43%	7	25%	4	36%	11	14%	7	50%	4	17%	12
189	38%	8	100%	3	54%	11	50%	6	50%	6	40%	5
190	18%	11	50%	18	38%	29	53%	19	44%	9	88%	17
191	--	3	75%	4	43%	7						
192	50%	2	--	1	33%	3					33%	27
193	68%	31	76%	37	72%	68	71%	76	87%	30	80%	49
194	57%	30	70%	30	63%	60	82%	60	57%	54	71%	99
195	29%	17	60%	10	41%	27	65%	20	82%	11	65%	23
196	33%	6	38%	8	36%	14	22%	9	29%	7	52%	21
197	67%	3	x	x	78%	9	0%	1	67%	6	75%	8
198	29%	17	86%	7	46%	24						
199	78%	9	50%	6	67%	15	67%	15	55%	11	56%	16
200	61%	23	67%	6	62%	29	69%	32	81%	32		
201	14%	7	100%	2	33%	9	27%	11	57%	14	54%	57
202	--	6	50%	4	20%	10	75%	4	50%	14	20%	5

Blank spaces=no candidates were examined.

## Electrology Pass Rates by School

New Exam		Old Exam										
7/1/2022-12/31/2022		1/1/2022-6/30/2022		2022 Overall		2021		2020		2019		
% Pass	#	% Pass	#	% Pass	#	% Pass	#	% Pass	#	% Pass	#	
1	67%	3	67%	24	61%	33	63%	24	50%	2	80%	30
2	83%	12	88%	8	86%	22	82%	38	50%	2	93%	15
3	78%	9	89%	9	84%	19	93%	14	67%	3	64%	11



## Esthetician Pass Rates by School

	New Exam		Old Exam		2022 Overall		2021		2020		2019	
	7/1/22-12-31-22		1/1/2022-6/30/2022		% Pass	#	% Pass	#	% Pass	#	% Pass	#
1	23%	22	25%	28	24%	50	43%	40	92%	13	80%	66
2	42%	24	82%	17	59%	41						
3	76%	49	75%	53	75%	102	72%	98	68%	41	71%	52
4	100%	1	0%	1	50%	2	0%	1				
5	68%	25	69%	42	69%	67	83%	30	81%	31	80%	91
6	100%	7	14%	7	57%	14	71%	7	100%	1	100%	2
7	55%	11	75%	16	67%	27	44%	18	100%	7	89%	9
8	67%	76	61%	126	63%	202	69%	149	89%	63	90%	88
9	88%	26	82%	34	85%	60	67%	39	80%	20	84%	94
10	57%	46	72%	29	63%	75	63%	57	86%	14	76%	25
11	58%	12	83%	18	73%	30	89%	9	50%	10	88%	24
12	42%	52	32%	53	37%	105	42%	97	71%	35	76%	33
13	71%	7	79%	14	76%	21	67%	24	60%	5	88%	16
14	39%	31	61%	38	51%	69	61%	38	100%	18	83%	6
15	83%	23	76%	21	80%	44	67%	36	100%	10	94%	35
16	62%	13	64%	11	63%	24	65%	17	87%	23	92%	39
17	29%	35	69%	82	52%	137	77%	145	90%	68	94%	118
18	--	1	0%	1	0%	2	33%	9	57%	28	76%	45
19	89%	38	62%	55	73%	93	67%	79	79%	53	77%	116
20	67%	3	80%	5	75%	8	50%	4				
21	--	1			0%	1			0%	1		
22	75%	12	63%	8	70%	20	0%	1	100%	3	88%	24
23	73%	88	60%	94	66%	182	61%	88	0%	1		
24	70%	64	53%	100	60%	164	68%	168	85%	60	83%	122
25	72%	113	64%	154	67%	267	75%	248	74%	78	85%	162
26	74%	38	77%	64	75%	102	63%	52	63%	8	89%	19
27	91%	11	100%	9	95%	20	100%	6	67%	3	67%	3
28	56%	32	69%	29	62%	61	75%	60	79%	38	73%	48
29	62%	29	57%	23	60%	52	72%	25	50%	24	83%	29
30	62%	13	43%	14	52%	27	65%	26				
31	65%	69	54%	102	58%	171	68%	98	63%	27	75%	38
32	88%	17	63%	27	73%	44	73%	40	82%	17	100%	12
33	74%	27	59%	17	68%	44	55%	42	67%	15	76%	29
34	72%	83	73%	97	73%	180	78%	167	84%	43	80%	121
35	95%	39	85%	33	90%	72	81%	54	100%	8	86%	21
36	92%	48	74%	58	82%	106	77%	61	90%	29	89%	55
37	71%	38	75%	52	73%	90	80%	40	100%	21	91%	65
38	86%	35	80%	50	82%	85	80%	30	72%	36	89%	28
39	85%	54	56%	41	73%	95	71%	79	77%	30	86%	91
40	94%	18	95%	19	95%	37	79%	28	100%	13	90%	30
41	71%	31	73%	30	69%	35	77%	43	69%	13	69%	36



42	67%	9	87%	15	79%	24	70%	23	100%	4	83%	6
43	17%	23	69%	36	49%	59	74%	70	83%	24	90%	50
44	74%	19	63%	16	69%	35	77%	43	67%	12	71%	7
45	62%	50	71%	38	66%	88	45%	31	56%	16	82%	28
46	59%	27	54%	35	56%	62	50%	24	55%	11	72%	29
47	75%	4			75%	4						
48	56%	27	48%	31	52%	58	53%	30	73%	15	82%	22
49	38%	65	52%	81	46%	146	55%	78	68%	34	58%	45
50	33%	3			33%	3	25%	4	100%	1	67%	3
51	81%	31	49%	43	62%	74	77%	39	92%	24	70%	40
52	57%	35	57%	28	57%	63	73%	22	63%	8	83%	42
53	40%	5	89%	9	71%	14						
54	100%	4	100%	2	100%	6	100%	3	70%	10		
55	82%	17	70%	20	76%	37	76%	17	89%	9	100%	21
56	45%	11	60%	10	52%	21	53%	19	86%	14	75%	16
57	84%	92	75%	114	79%	206	70%	184	81%	86	84%	140
58	78%	27	29%	24	55%	51	71%	22	71%	7	77%	22
59	69%	16	75%	16	72%	32	62%	39	73%	15	100%	23
60	88%	17	70%	23	78%	40	40%	20	91%	11	89%	18
61	64%	14	64%	36	64%	50	78%	27	88%	16	86%	44
62							25%	4	88%	16		
63	100%	4			100%	4						
64	60%	5			60%	5	100%	2				
65	100%	9			100%	9			88%	34	84%	45
66	79%	39	65%	57	71%	96	75%	57	69%	26	64%	36
67	93%	29	97%	33	95%	62	78%	82	90%	40	97%	35
68	65%	17	71%	7	67%	24	76%	17	80%	5	100%	5
69	75%	12	80%	10	77%	22	67%	9				
70	67%	15	64%	11	65%	26	38%	24	60%	10	100%	2
71	44%	16	40%	5	43%	21	46%	13	78%	9	57%	23
72	52%	29	66%	44	60%	73	48%	29	75%	8	87%	23
73	52%	21	53%	19	53%	40	44%	25	41%	22	62%	42
74	71%	34	73%	26	72%	60	91%	44	100%	22	84%	37
75	38%	13	64%	25	55%	38	66%	38	93%	27	500%	50
76	33%	6	77%	22	68%	28	58%	19	82%	34	79%	57
77	61%	66	70%	57	65%	123	64%	75	76%	17	100%	1
78	87%	31	78%	50	81%	81	82%	87	93%	43	85%	20
79	55%	38	64%	59	61%	97	51%	68	52%	21	89%	18
80	11%	19	48%	23	31%	42	37%	35	55%	22	63%	30
81	76%	21	61%	23	68%	44	70%	27	100%	16	87%	39
82	38%	55	53%	58	46%	113	53%	57	100%	8	86%	14
83	--	3			100%	7						
84	100%	5	60%	15	50%	18	42%	12	40%	10	100%	17
85	50%	14	43%	21	46%	35	48%	25	67%	12	79%	14
86	42%	19	100%	2	48%	21						
87	91%	11	43%	7	72%	18	79%	24	100%	9	95%	19
88	81%	58	64%	69	72%	127	64%	84	59%	54	81%	109

89	56%	18	63%	19	59%	37	64%	25	36%	14	79%	14
90	67%	8	71%	17	70%	23	61%	18	22%	9	33%	3
91	91%	35	74%	35	83%	70	93%	27	100%	23	100%	45
92							60%	5	100%	3		
93	56%	32	55%	29	56%	61	65%	20				
94	74%	86	43%	83	59%	169	51%	70	63%	41	61%	61
95	66%	198	49%	195	58%	393	46%	265	58%	106	61%	141
96	77%	83	18%	31	63%	49	35%	20	100%	5		
97	64%	9	63%	32	71%	51						
98	100%	2	100%	3	100%	5	100%	1				
99	100%	4	81%	16	85%	20	50%	44	59%	32	85%	48
100	63%	38	60%	55	61%	93	59%	29	100%	5		
101	69%	16	40%	10	58%	26	50%	4				
102	45%	11	56%	18	52%	29	40%	25	63%	8	67%	3
103	43%	14	57%	7	48%	21			100%	1		
104	28%	67	44%	52	35%	119	44%	77	73%	51	73%	123
105	91%	23	97%	29	94%	52	94%	66	100%	9		
106	50%	2			60%	5						
107	77%	57	72%	39	75%	96	62%	53	90%	21	78%	50
108	59%	22	44%	16	53%	38	73%	15	67%	9	57%	21
109	70%	47	70%	79	70%	126	76%	72	93%	30	91%	81
110	62%	47	57%	58	59%	105	65%	49	76%	29	78%	103
111	80%	86	76%	83	78%	169	76%	125	83%	54	88%	104
112	68%	50	70%	20	69%	70	40%	5				
113	68%	92	62%	134	65%	226	65%	102	75%	56	77%	111
114	81%	43	63%	52	72%	95	75%	56	83%	30	78%	58
115	81%	139	65%	130	74%	269	68%	220	75%	68	78%	134
116	100%	6			100%	6	0%	1				
117			100%	1	100%	1	0%	3	71%	7	82%	72
118	82%	22	69%	36	74%	58	71%	17				
119	60%	5	9%	11	25%	16	71%	7			60%	5
120	60%	10	44%	9	53%	19	23%	13	71%	7	75%	8
121	52%	23	44%	18	49%	41	63%	8	80%	5	79%	24
122	95%	19			95%	19	33%	3	90%	21	89%	18
123	43%	35	57%	94	53%	129	38%	55	77%	78	83%	149
124	60%	40	46%	13	57%	53	48%	25	17%	6	100%	2
125	59%	29	69%	29	64%	58	82%	22	90%	10		
126	71%	66	68%	62	70%	128	80%	93	91%	43	84%	74
127	79%	80	64%	94	71%	174	64%	64	73%	33	77%	65
128	69%	80	65%	85	67%	165	64%	129	67%	46	66%	100
129	74%	62	79%	58	77%	120	71%	115	67%	39	73%	77
130	67%	69	68%	78	67%	147	58%	153	51%	45	71%	92
131	81%	27	50%	26	66%	53	57%	46	83%	29	89%	19
132	67%	12	52%	21	58%	33	33%	15	50%	4	44%	9
133	38%	13	20%	20	27%	33	44%	58	69%	65	78%	188
134	76%	63	59%	78	67%	141	63%	87	80%	41	74%	86
135	76%	25	67%	30	71%	55	80%	40	90%	31	91%	54

136	82%	28	89%	45	86%	10	59%	27	90%	20	87%	39
137	42%	86	67%	176	59%	108	54%	212	75%	103	78%	122
138	89%	9	72%	18	78%	27	92%	50	95%	22	97%	32
139	50%	20	29%	7	44%	27	50%	10	75%	20	77%	30
140	84%	38	80%	25	83%	63	78%	63	79%	53	92%	65
141	67%	18	63%	16	65%	34	73%	37	100%	4	85%	20
142	57%	23	34%	29	44%	52	33%	15	60%	15	56%	16
143	89%	55	60%	52	75%	107	71%	59	72%	50	75%	44
144	57%	21	56%	39	57%	60	69%	62	70%	53	94%	47
145	70%	10	45%	11	57%	21	81%	27	67%	6	80%	15
146	54%	13	65%	17	60%	30	58%	12	100%	17	100%	1
147	38%	8	89%	19	74%	27	100%	2				
148	29%	21	19%	21	24%	42	59%	17	50%	10	0%	2
149	100%	1	100%	1	100%	1						
150	61%	23	62%	26	61%	49	76%	42	78%	9	84%	61
151	--	3	0%	1	0%	4	0%	1			0%	1
152	70%	27	63%	27	67%	54	42%	36	63%	8		
153	36%	39	90%	30	59%	69	90%	10				
154	68%	22	64%	11	67%	33	75%	16	50%	16	79%	34
155	64%	28	65%	23	65%	51	53%	49	83%	29	69%	29
156	67%	12	88%	25	81%	37	81%	26	88%	16	81%	47
157	73%	51	74%	38	73%	89	69%	26	61%	23	86%	28

Blank spaces=no candidates were examined.

## Manicure Pass Rates by School

	New Exam		Old Exam		2022 Overall		2021		2020		2019	
	7/1/22-12-31-22	#	1/1/2022-6/30/2022	#	% Pass	#	% Pass	#	% Pass	#	% Pass	#
1	21%	107	55%	132	40%	239	57%	162	73%	166	63%	295
2	59%	86	80%	70	69%	156	84%	43				
3	100%	5	100%	3	100%	8			50%	2	100%	1
4	33%	3	60%	5	50%	8	50%	4				
5	100%	1	92%	12	92%	13	88%	17	100%	6	100%	12
6	64%	75	72%	156	69%	231	76%	219	86%	211	85%	454
7	100%	4	79%	14	83%	18						
8	100%	2	0%	1	67%	3	0%	1	67%	3	67%	3
9	54%	84	46%	90	48%	174	63%	139	68%	117	57%	161
10	100%	10	80%	35	84%	45	75%	4	100%	13	73%	11
11	75%	4	57%	7	64%	11	71%	7	78%	9	81%	23
12	--	12	43%	14	23%	26	25%	8	50%	6	100%	2
13	61%	36	68%	28	64%	64	57%	53	86%	22	88%	59
14	50%	4	17%	6	30%	10	50%	6			100%	4
15	42%	177	71%	193	57%	370	84%	220	88%	173	85%	570
16	41%	29	71%	14	51%	43	88%	24	50%	2		
17	88%	8	50%	4	75%	12	60%	5	100%	6	80%	5
18	80%	20	73%	33	75%	53	57%	21				
19	71%	14	70%	20	71%	34	72%	18	90%	10	85%	27
20	89%	19	82%	11	87%	30	69%	26	0%	1	80%	10
21	50%	2			50%	2	100%	1				
22	80%	25	65%	17	74%	42	64%	14	86%	7	92%	12
23	55%	51	74%	43	64%	94	55%	31	82%	17	68%	31
24	88%	8	82%	11	84%	19	100%	9	86%	7	89%	19
25	70%	20	62%	26	65%	46	67%	46	96%	25		
26	78%	18	68%	34	71%	52	80%	15	89%	9	92%	13
27	60%	5	100%	2	71%	7	50%	2				
28	100%	1	83%	6	86%	7	0%	1				
29	89%	18	60%	15	76%	33	76%	34	83%	6	100%	1
30	100%	1	100%	8	100%	9						
31	50%	2	63%	8	60%	10	100%	4	100%	5		
32	100%	8	82%	11	89%	19	100%	9	80%	5	100%	6
33	91%	11	50%	6	76%	17	100%	1	50%	4	62%	13
34	100%	1	50%	12	54%	13	58%	12	75%	4	50%	2
35	28%	32	75%	51	57%	83	85%	92	83%	65	83%	175
36	100%	11	80%	15	88%	26	86%	7	100%	4	86%	7
37	55%	11	79%	14	68%	25	42%	12	0%	1	60%	5
38	57%	7			57%	7						
39	73%	48	51%	53	61%	101	63%	59	94%	18	93%	59
40	31%	84	44%	81	38%	165	66%	91	77%	70	70%	182
41	--	1			33%	1						

42	67%	3	100%	2	80%	5	50%	2	100%	4	60%	5
43	25%	4			15%	4						
44	75%	16	85%	20	81%	36	0%	5	76%	25	71%	152
45	76%	41	94%	36	84%	77	100%	13				
46	100%	1	0%	1	50%	2	100%	1			100%	1
47	20%	5	43%	7	33%	12	50%	2			25%	4
48	100%	9	56%	9	78%	18	94%	17	77%	13	84%	25
49	55%	51	78%	40	65%	91	78%	45	88%	117	100%	17
50	69%	29	53%	59	55%	88	62%	73	67%	55	82%	56
51	75%	4	91%	11	87%	15	100%	8			100%	5
52	79%	14	65%	17	71%	31	93%	14	86%	7	100%	1
53	33%	9	20%	5	29%	14	21%	14	100%	2	75%	8
54	58%	26	63%	32	60%	58	45%	29	77%	13	60%	20
55	83%	6	75%	4	80%	10	86%	14	100%	1		
56	75%	12	92%	12	83%	24	50%	6	89%	9	89%	9
57	38%	8	50%	2	40%	10	75%	4				
58	50%	4	55%	11	53%	15	50%	6	43%	23	48%	50
59	83%	6	88%	8	86%	14	40%	5	0%	2	50%	10
60	32%	95	53%	76	41%	171	66%	92	61%	129	51%	277
61	75%	8	54%	13	62%	21	71%	7	75%	4	86%	7
62	30%	30	77%	47	58%	77	85%	133	82%	158	87%	366
63	62%	60	77%	88	71%	148	81%	128	76%	173	87%	184
64	49%	39	39%	62	43%	101	25%	52	73%	30	60%	25
65	24%	54	59%	71	44%	125	66%	92	53%	79	41%	212
66	33%	9	67%	6	47%	15	50%	2	100%	1	67%	6
67	50%	6				6						
68	100%	3	67%	6	58%	9	100%	7	78%	9	64%	14
69	89%	9	63%	8	76%	17	69%	16	100%	6	67%	9
70	75%	4	80%	10	79%	14	56%	9			63%	8
71	77%	13	86%	7	80%	20						
72	78%	9	83%	12	81%	21	86%	7	100%	11	89%	18
73	91%	11	87%	15	88%	26	80%	20	88%	16	82%	28
74	69%	13	79%	19	75%	32	86%	42	91%	11	95%	22
75	47%	45	78%	55	64%	100	73%	22	61%	41	66%	53
76	17%	6	85%	13	63%	19	100%	7				
77	45%	11	43%	7	44%	18	80%	5				
78	83%	23	53%	17	70%	40	25%	12	100%	1		
79	78%	9			78%	9						
80						--	100%	1				
81	100%	1	57%	7	63%	8	73%	22				
82	92%	13	76%	25	82%	38	81%	16	100%	6	100%	1
83	80%	5	40%	5	60%	10	38%	8	100%	4	100%	6
84	80%	5	60%	15	65%	20	81%	42	63%	8	78%	18
85	51%	122	72%	109	61%	231	82%	186	74%	177	70%	483
86	28%	101	71%	85	47%	186	69%	110	65%	82	64%	302
87	85%	27	79%	48	81%	75	85%	47	91%	22	88%	8
88	--	1	55%	11	50%	12						

89	88%	8	50%	10	67%	18	71%	7	100%	4	100%	2
90	100%	23	83%	29	90%	52	91%	11	100%	2	100%	7
91	72%	18	72%	29	72%	47	88%	16	100%	9	100%	17
92	82%	11	50%	18	62%	29	73%	11	100%	5	94%	17
93	55%	11	57%	14	56%	25	33%	6	100%	2	83%	6
94	35%	20	66%	38	55%	58	81%	16	61%	56	73%	118
95	49%	51	51%	75	50%	126	32%	34	56%	59	70%	145
96	100%	2	100%	4	100%	6					0%	4
97	50%	2	100%	8	90%	10	80%	10	79%	24	94%	16
98	86%	7	93%	15	91%	22	63%	8	100%	2	100%	4
99	86%	14	76%	17	81%	31	63%	16	50%	2	75%	4
###	56%	16	79%	14	67%	30	92%	13	67%	6	100%	8
###	71%	17	63%	19	67%	36	75%	20	86%	7	100%	12
###	100%	10	85%	13	91%	23	79%	34	100%	3	83%	12
###	88%	17	57%	14	88%	31	63%	19	100%	7	100%	7
###	39%	36	35%	34	37%	70	60%	65	69%	42	83%	59
###	100%	5	30%	10	53%	15	70%	10	86%	21	92%	62
###						--	100%	1	100%	1	100%	3
###	100%	1			100%	1			100%	1	100%	10
###	48%	86	55%	94	52%	180	61%	85	85%	95	70%	147
###	59%	17	61%	23	60%	40	0%	4	50%	8	63%	35
###	100%	8	100%	5	100%	13	86%	7	100%	5	80%	5
###	100%	4			100%	4						
###	88%	8	100%	9	94%	17	100%	1	100%	11	93%	15
###	33%	3	100%	9	83%	12	75%	8	75%	8	64%	14
###	92%	12	80%	5	88%	17	67%	3	100%	5	75%	4
###	71%	7	17%	6	46%	13	60%	48	75%	32	71%	160
###	42%	12	56%	9	48%	21	67%	9	60%	15	77%	30
###	36%	33	41%	37	39%	70	71%	59	62%	29	64%	44
###	--	2	67%	3	33%	5	100%	4	50%	12	62%	13
###	40%	35	49%	39	45%	74	79%	137	80%	64	86%	139
###	50%	2	0%	1	33%	3	0%	1	50%	2	0%	1
###	55%	107	83%	95	68%	202	85%	47				
###	100%	3			100%	3	100%	1				
###	88%	17	69%	13	80%	30	69%	16	76%	21	74%	27
###	--	1			0%	1	50%	2	40%	5	89%	28
###	--	1			0%	1			0%	1	100%	1
###	86%	7	100%	5	92%	12	57%	7	0%	2	80%	20

Blank spaces=no candidates were examined.