

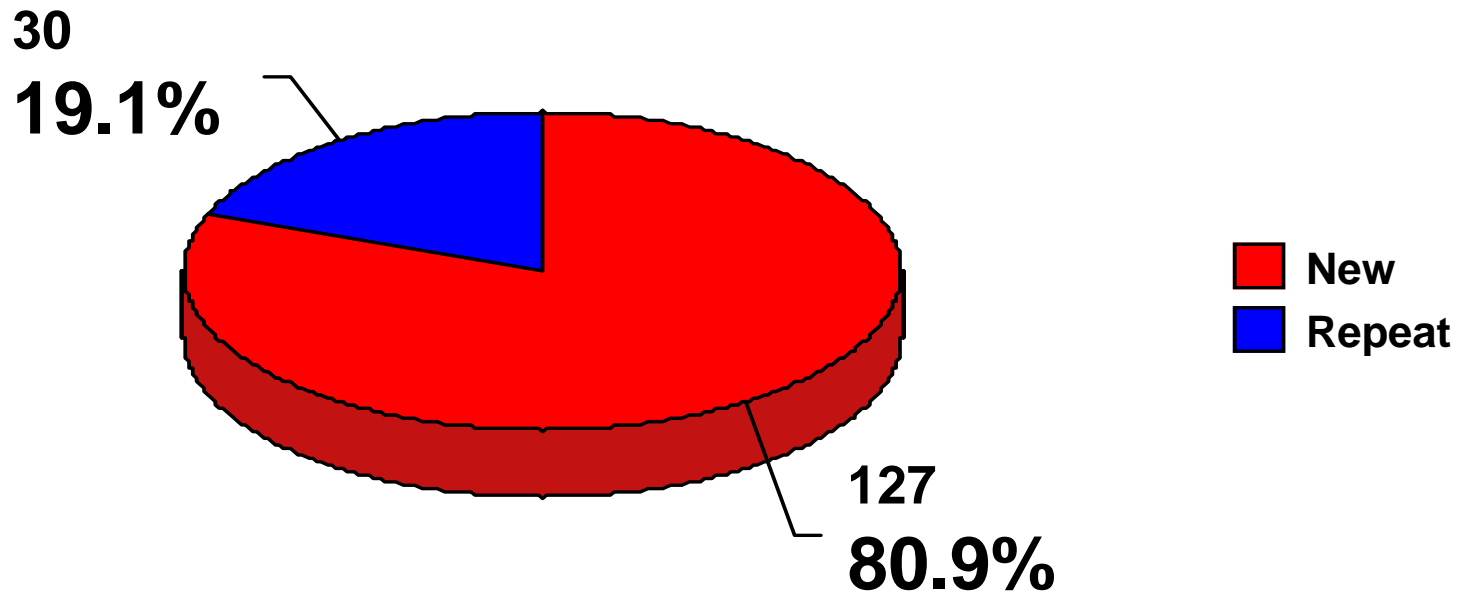
CSAO

Examination Results - 2003



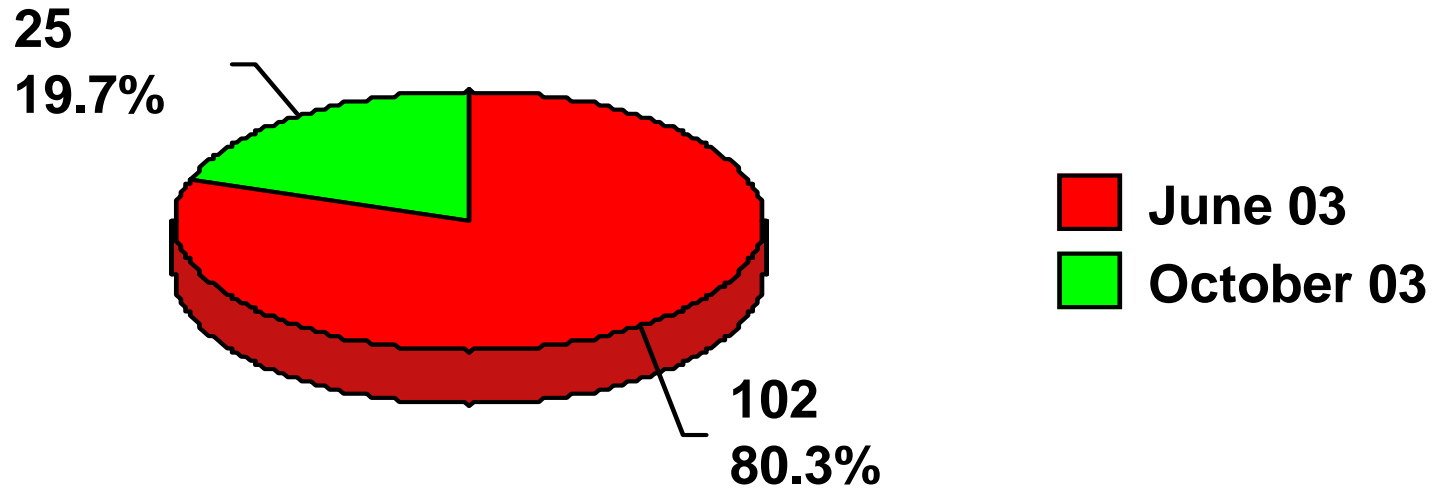
Analysis of Performance

New Versus Repeat Candidates 2003



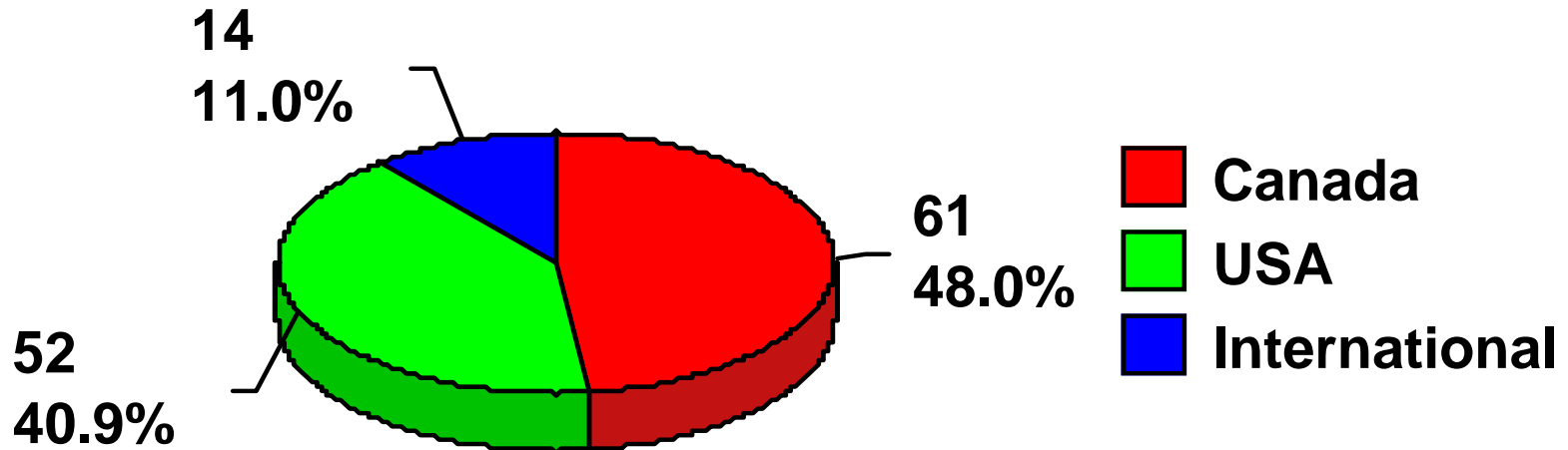
Candidates per Administration – 2003

(New Candidates n=127)



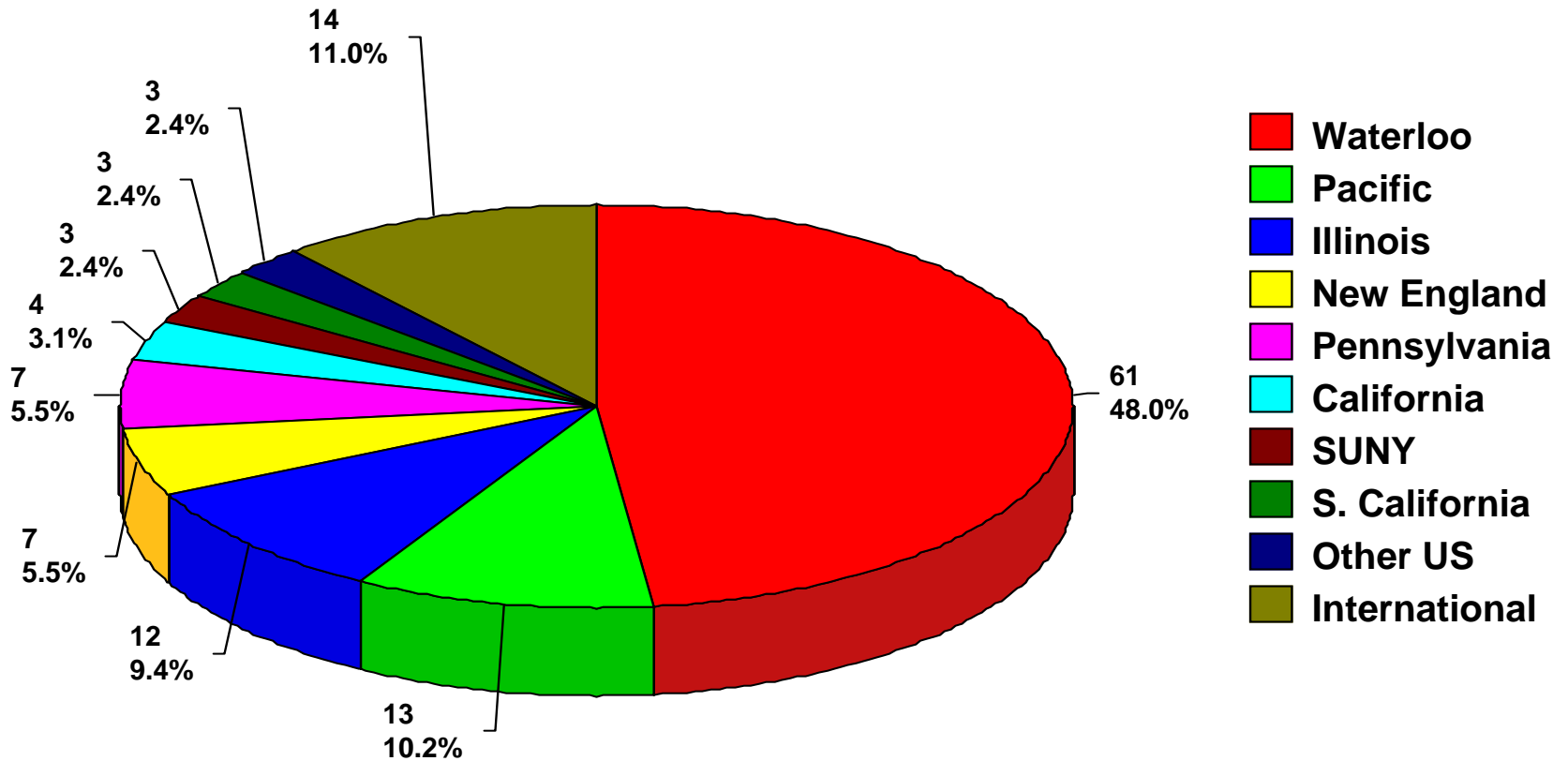
Candidates By Country – 2003

(New Candidates n=127)

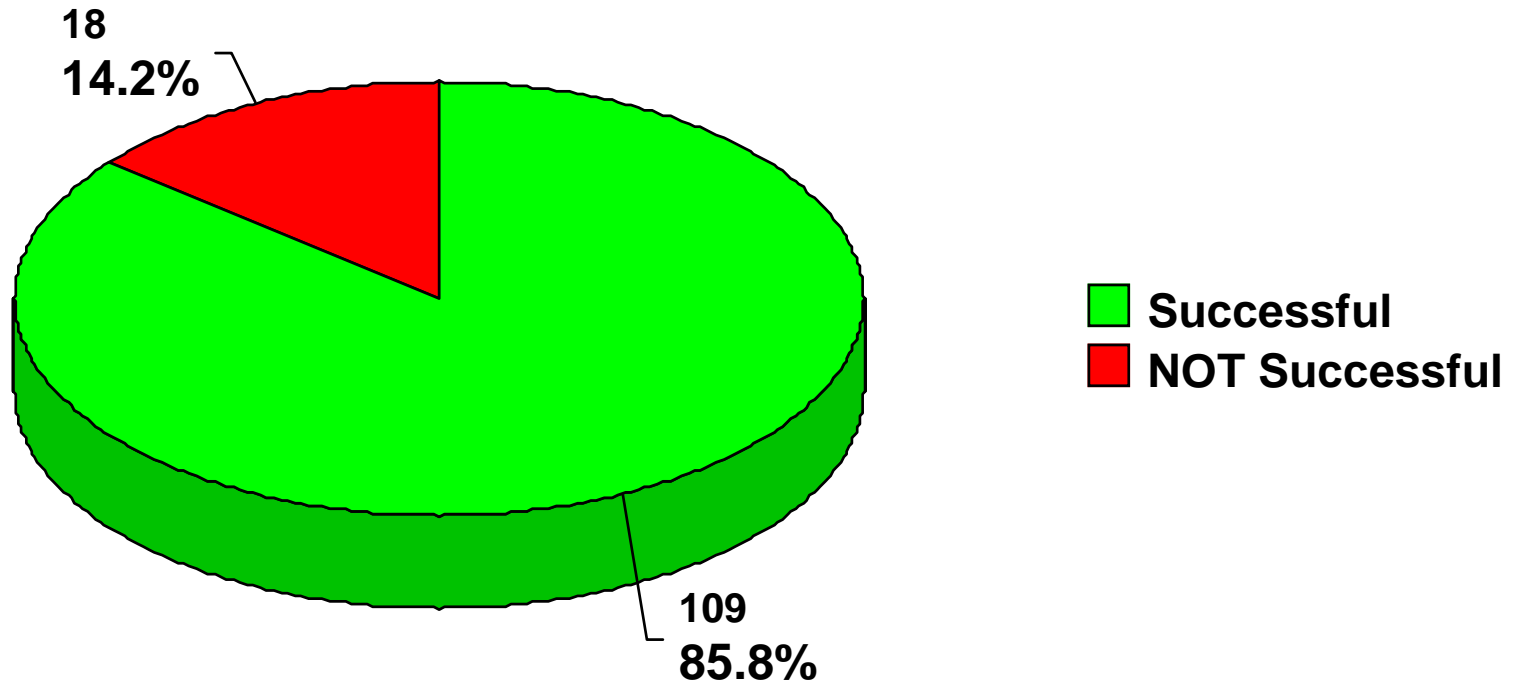


New Candidates By School For 2003

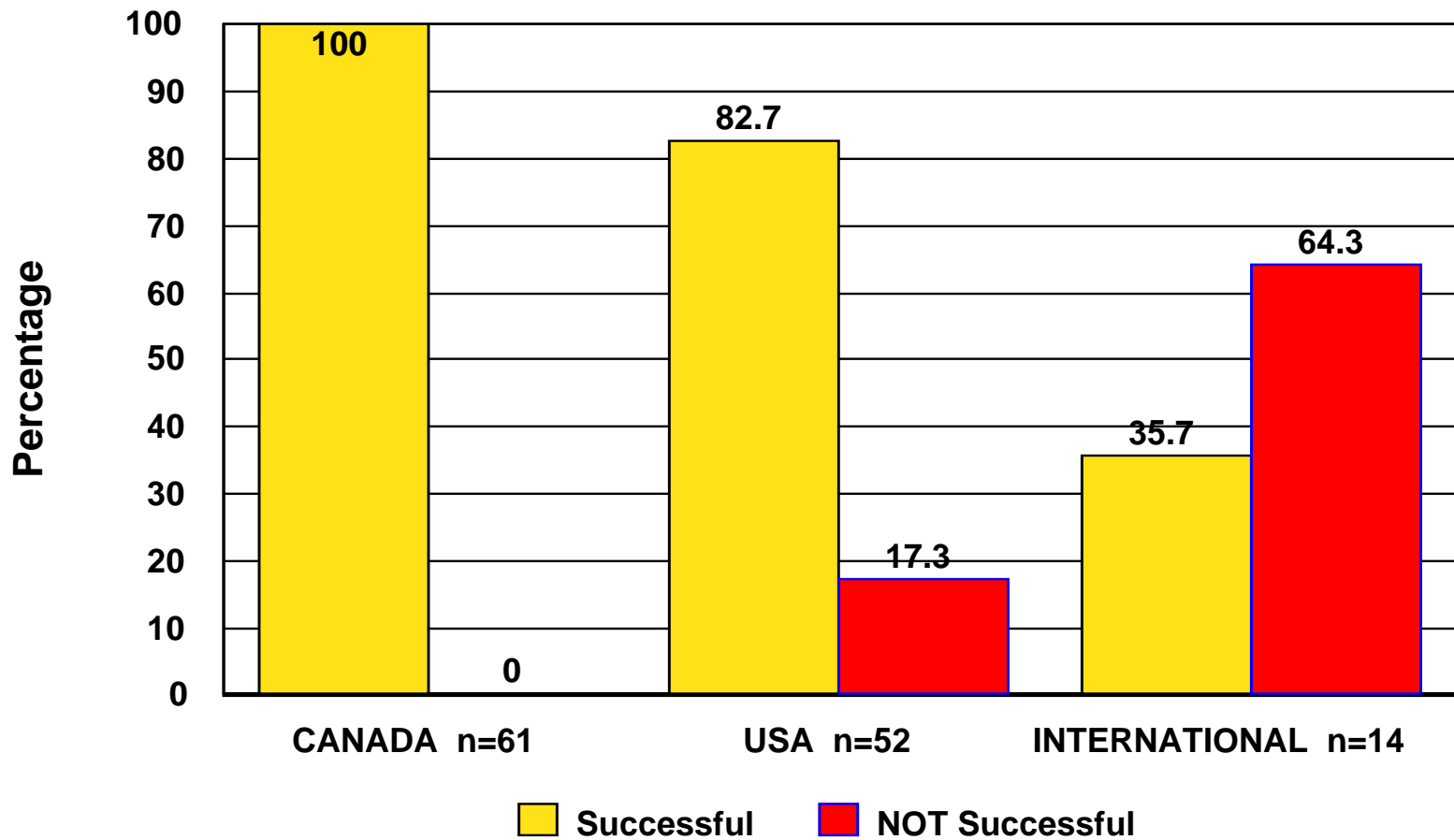
n=127



Percentage of ALL New Candidates Successfully Completing CSAO – 2003



Percentage by Group Successfully Completing CSAO For 2003





Key to Abbreviations

Written Components

- **BS= Biological Sciences**
- **VS= Visual Sciences**
- **OT= Ocular Therapeutics**
- **CJ= Clinical Judgment**



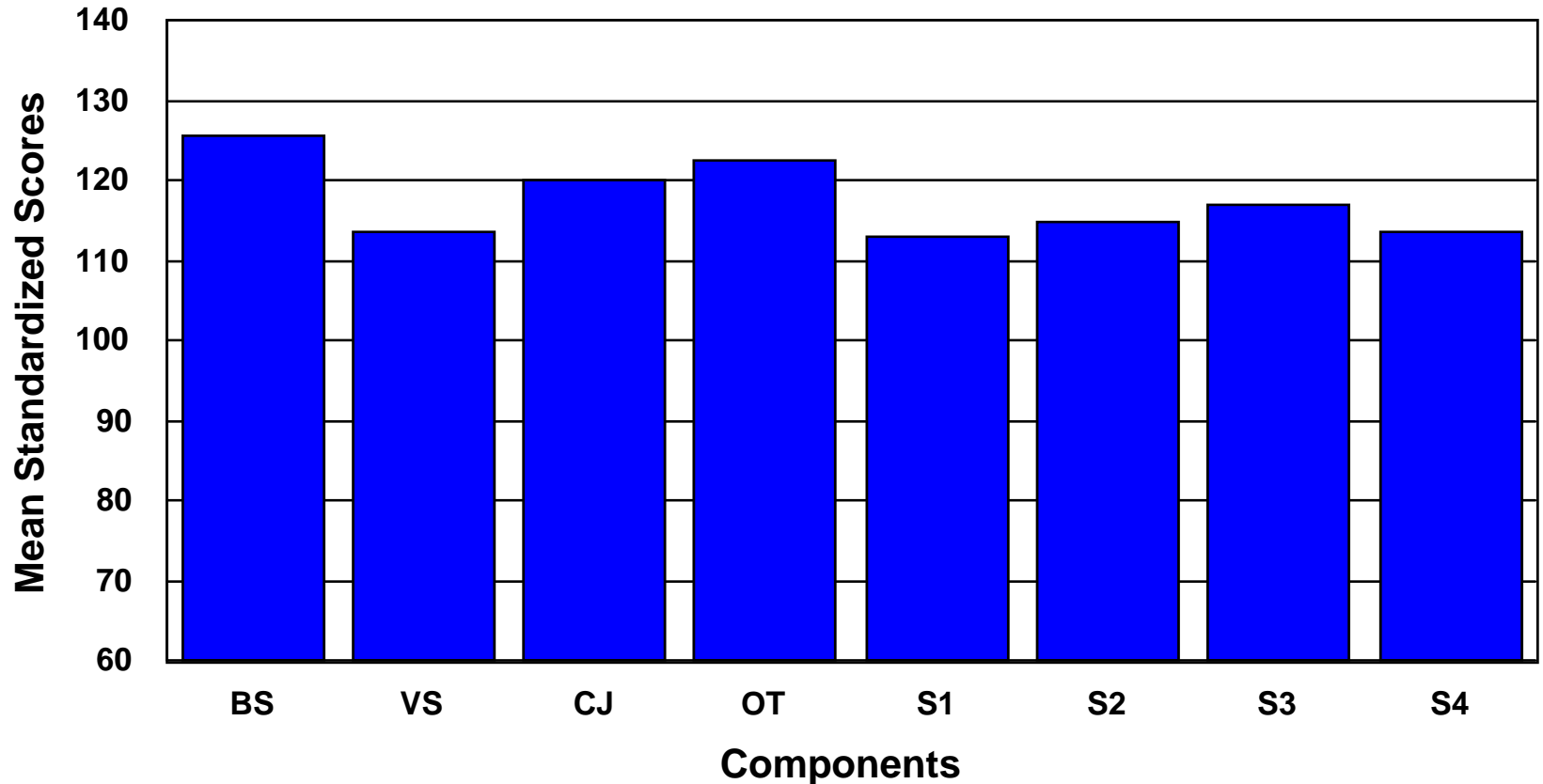
Key to Abbreviations

Skills Components

- **S1 = Interviewing & Assessing Refractive & Accommodative Conditions**
- **S2 = Assessing Ocular & Sensory Integrative Functions**
- **S3 = Assessing Ocular & Systemic Disease**
- **S4 = Assessing Ophthalmic Appliances**

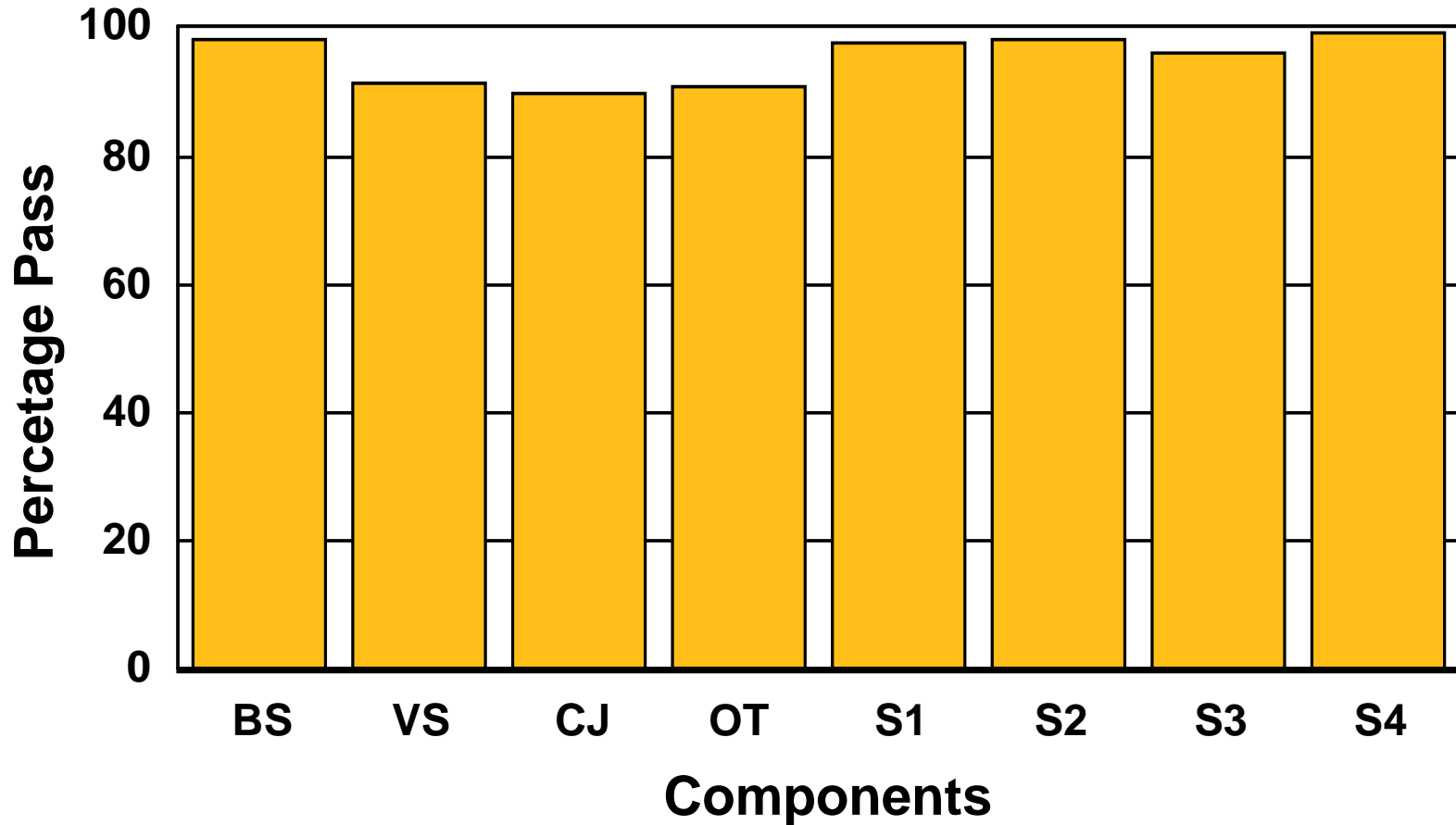
Performance By Component

For All 127 New Candidates - 2003

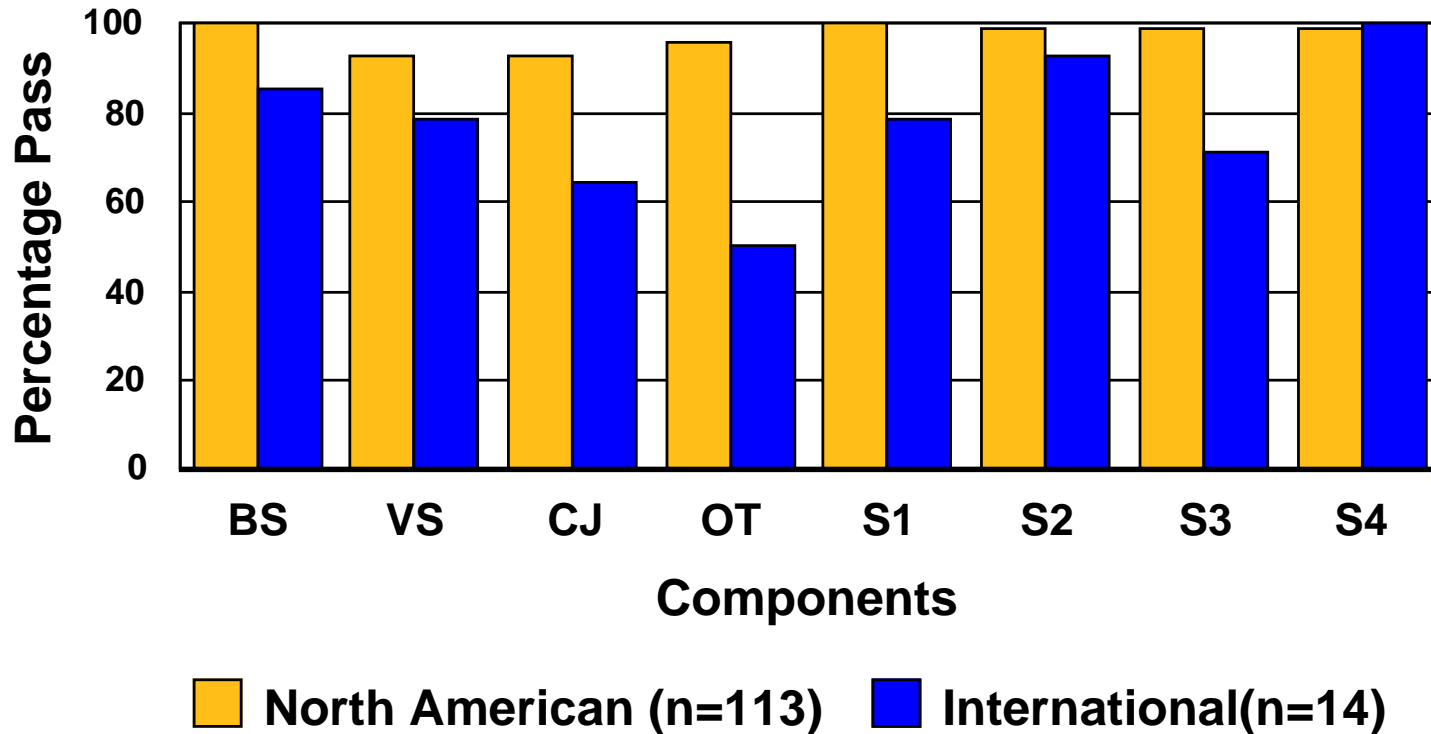


Pass Rate By Component

For All 127 New Candidates - 2003

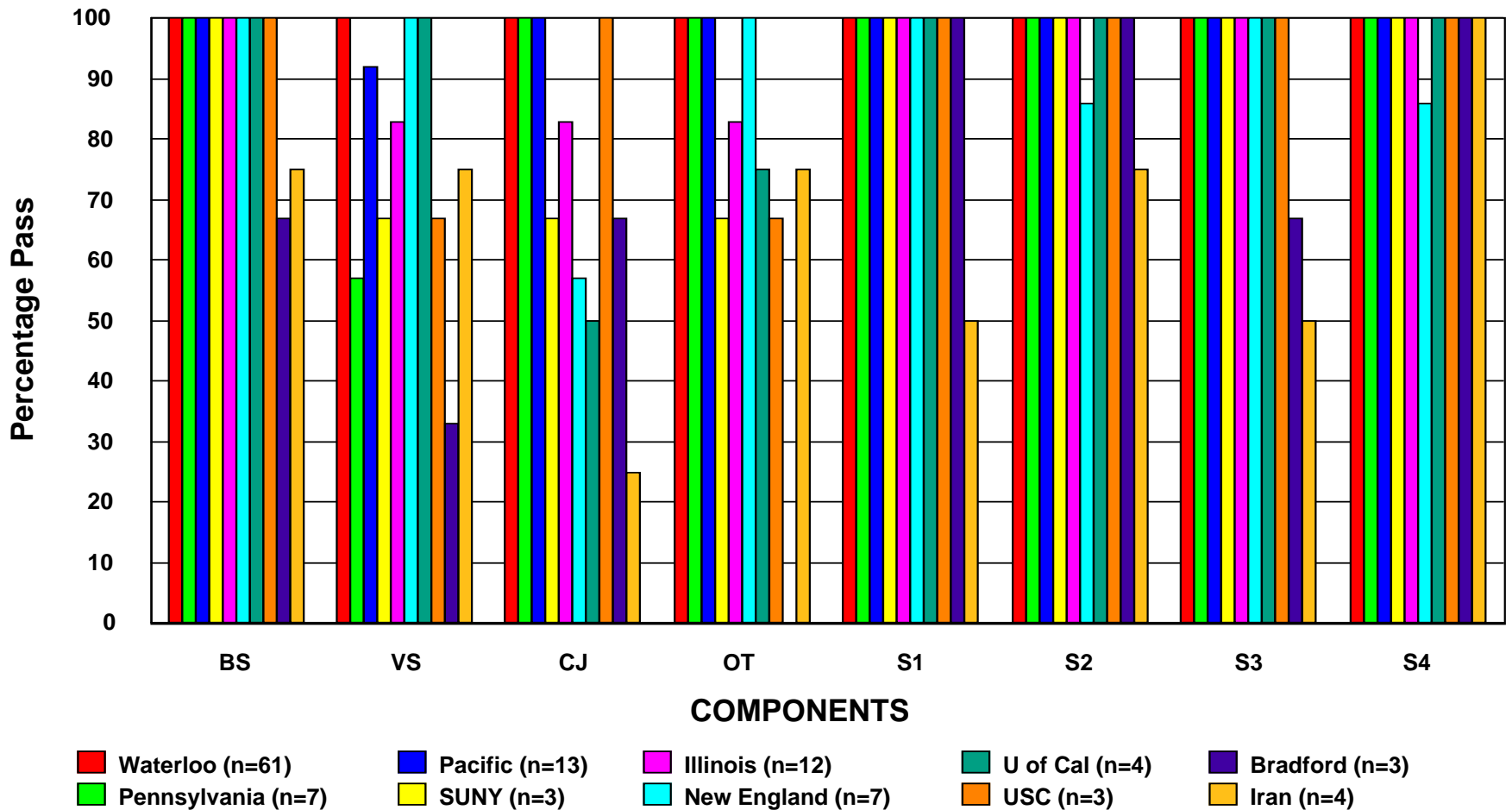


North American VS International Pass Rates For Each CSAO Component - 2003

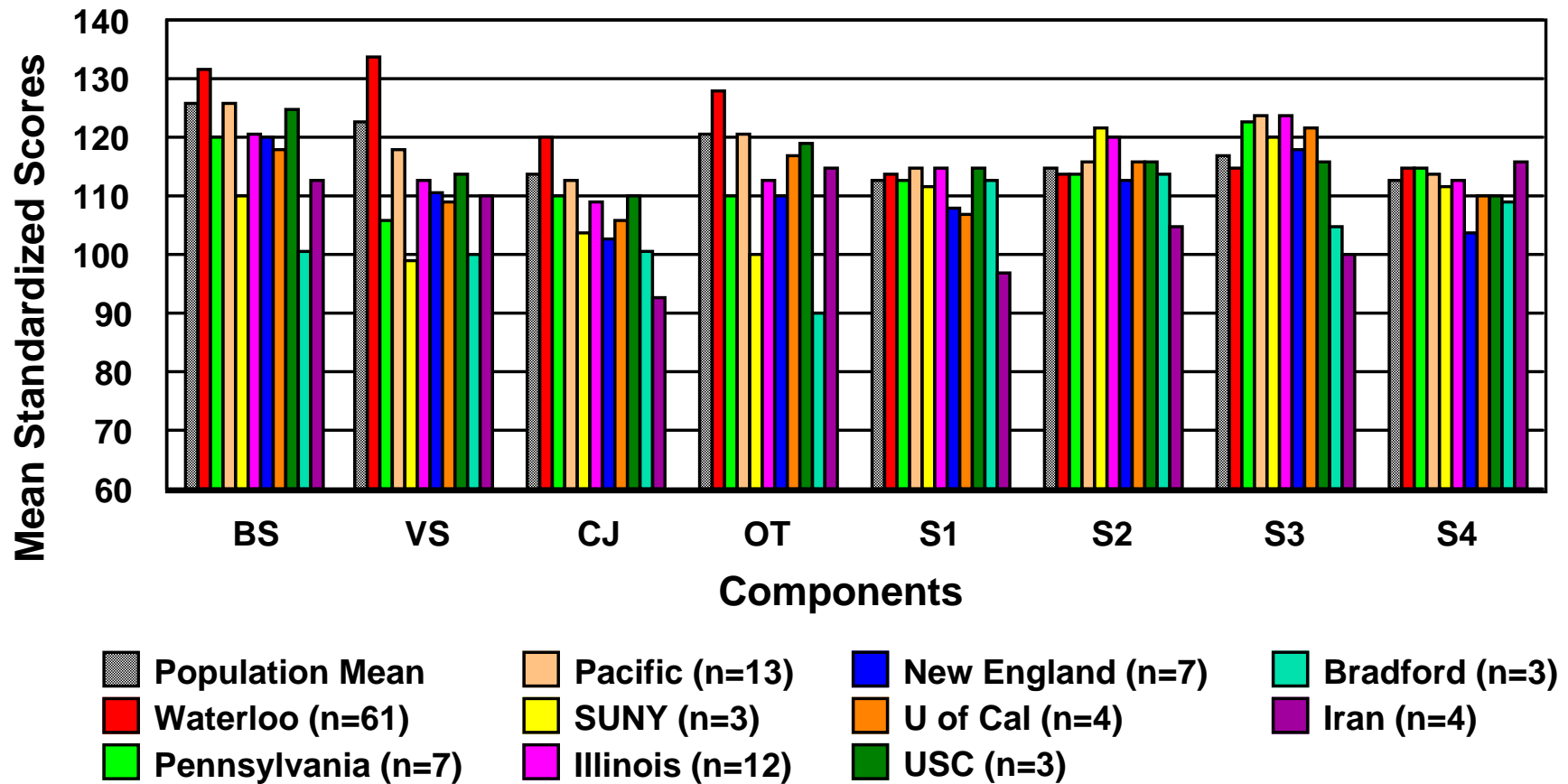


Passing Rate For Each CSAO Component - 2033

For Schools Sending 3 or More NEW Candidates



Comparison of 10 Institutions to Population Mean For All CSAO Components - 2003



Written Components - 2003

Comparison By Institution To Population Mean (PM)

If College not mentioned, NO significant difference from (PM)

- **Biological Sciences:** Waterloo significantly higher than PM;
Pennsylvania, SUNY, Illinois, New England and Bradford significantly lower than PM
- **Visual Sciences:** Waterloo significantly higher than PM;
Pennsylvania, SUNY, Illinois, New England, U Cal and Bradford significantly lower than PM
- **Clinical Judgment:** Waterloo significantly higher than PM;
Pennsylvania, Illinois, New England, Bradford and Iran significantly lower than PM
- **Ocular Therapeutics:** Waterloo significantly higher than PM;
Pennsylvania, Illinois, New England, Bradford significantly lower than PM

Skills Components -2003

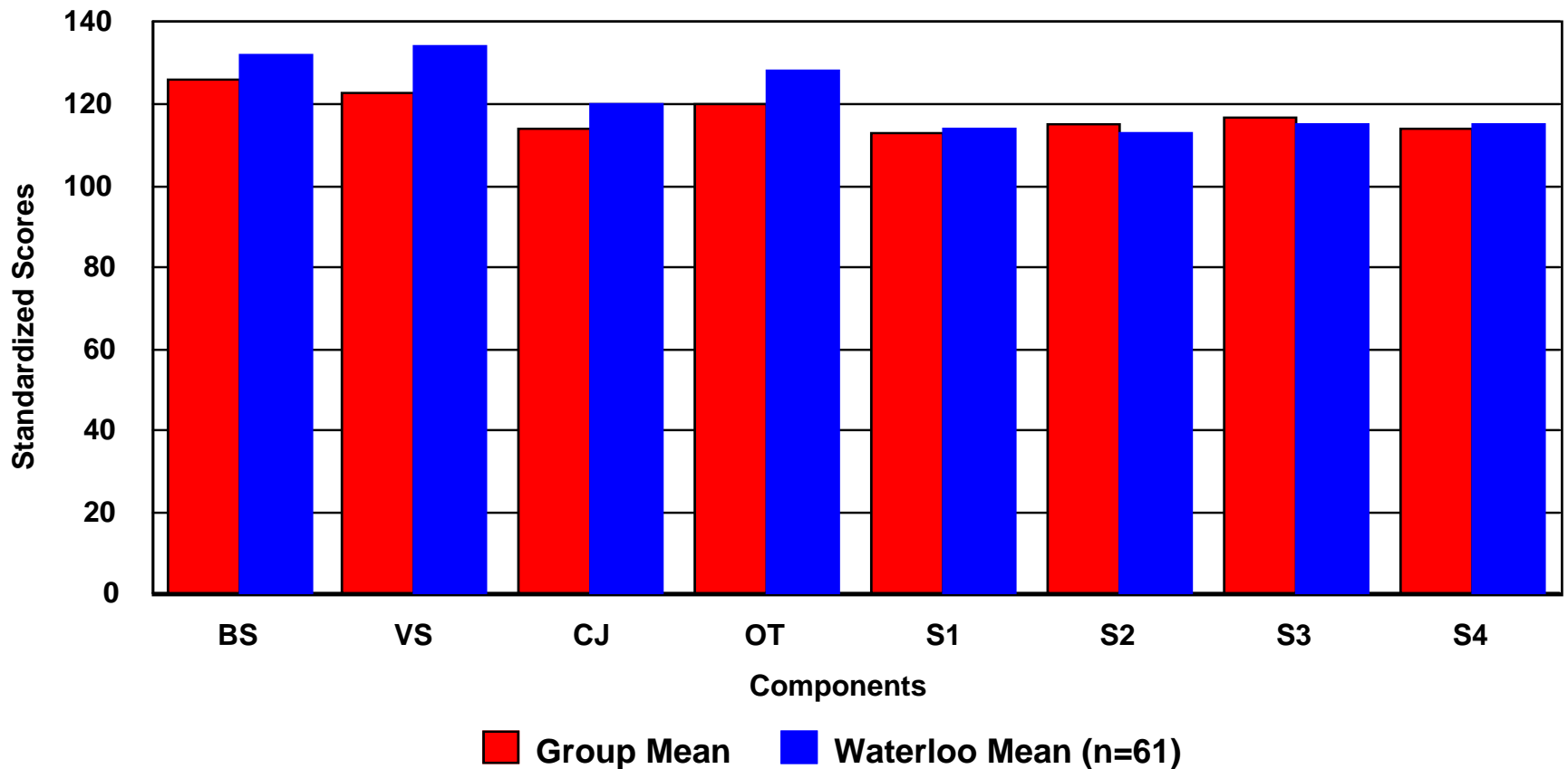
Comparison By Institution To Population Mean (PM)

If College not mentioned, NO significant difference from (PM)

- **Session 1:** New England significantly lower than PM
- **Session 2 :** Illinois significantly higher than PM
- **Session 3 :** Pacific, Illinois are significantly higher than PM;
- **Session 4 :** Waterloo significantly higher than PM
Bradford significantly lower than PM

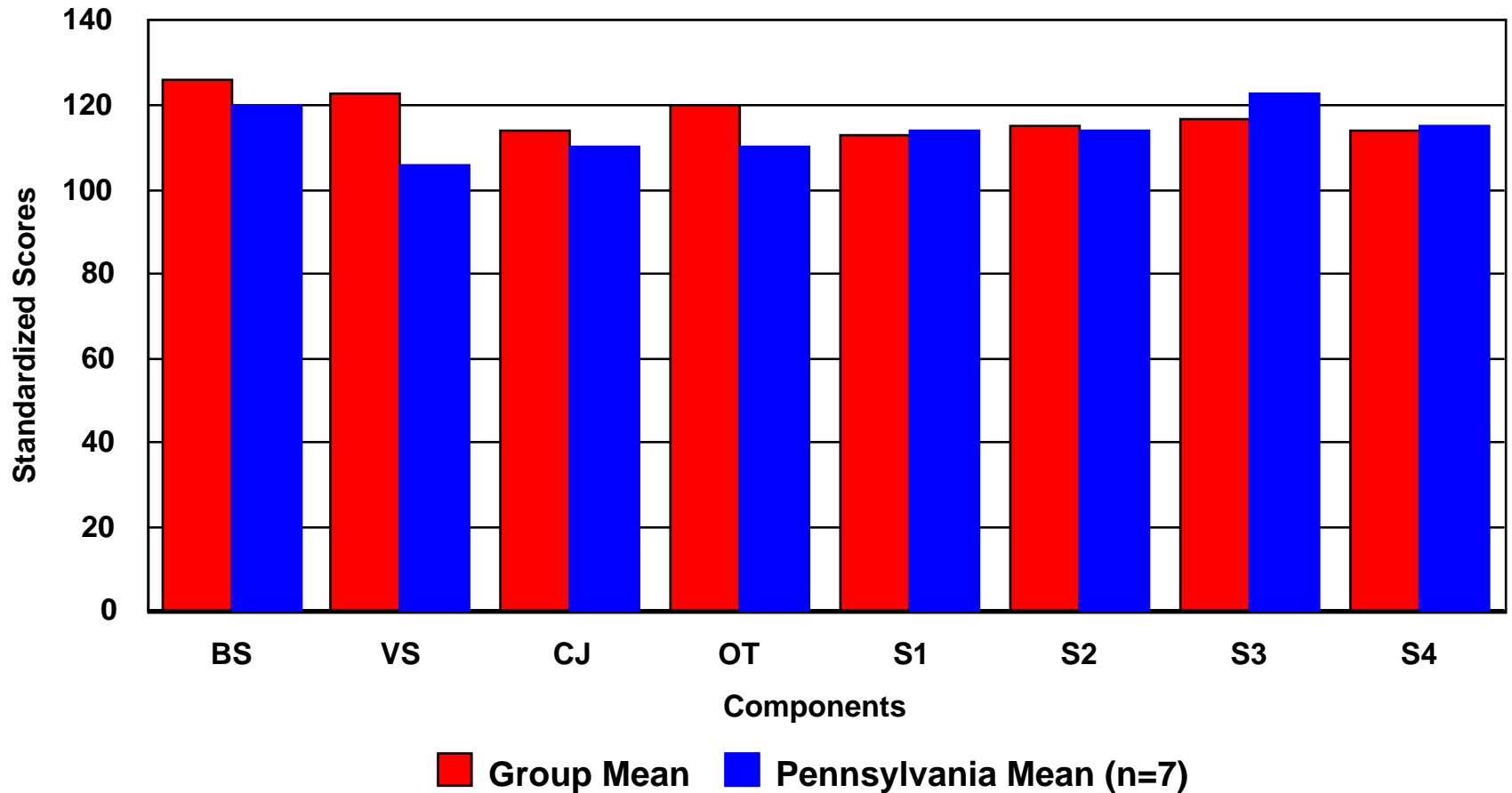
Waterloo University - New Candidates 2003

Comparison By Component To Group Mean



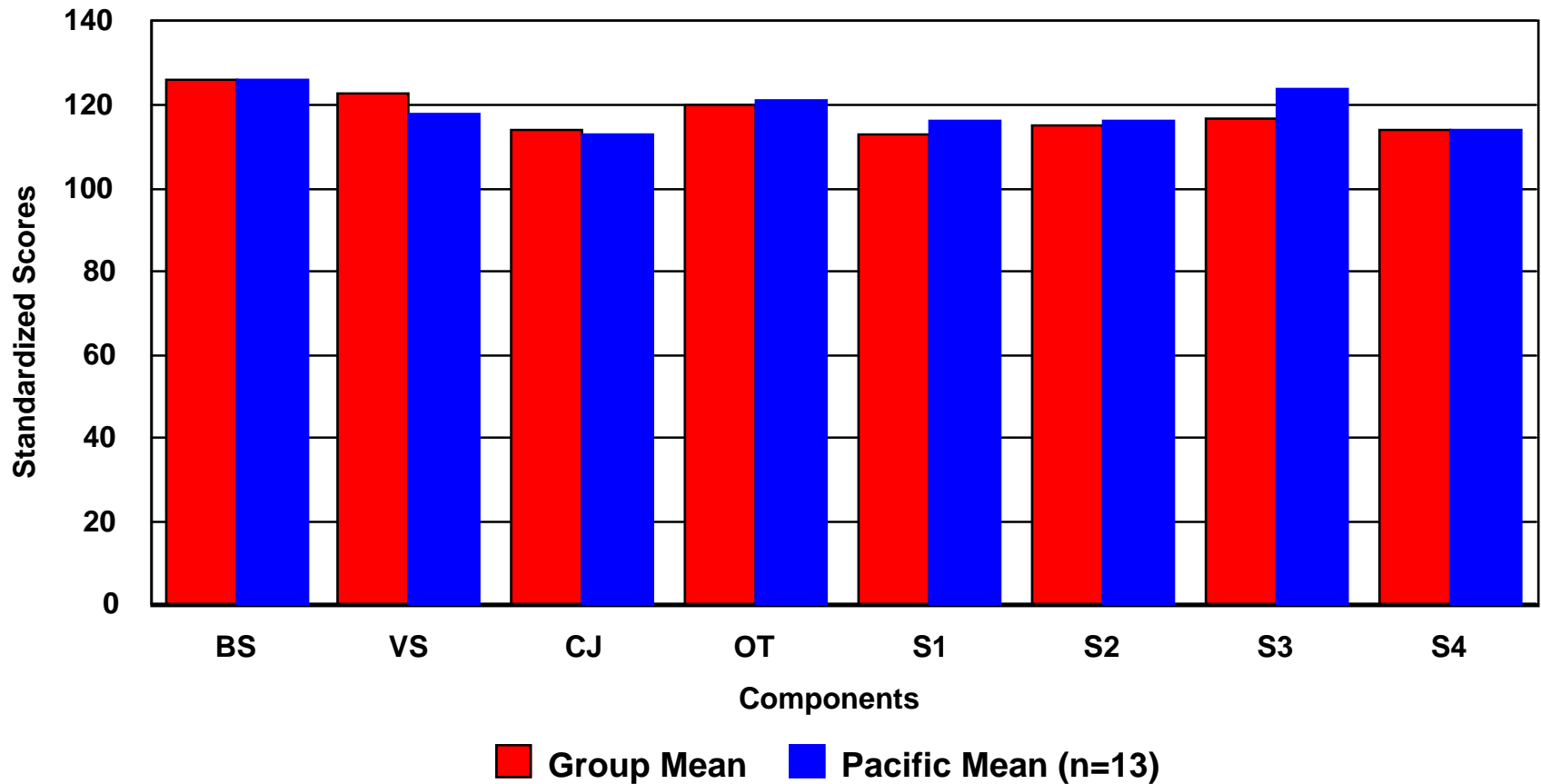
Pennsylvania - New Candidates 2003

Comparison By Component To Group Mean



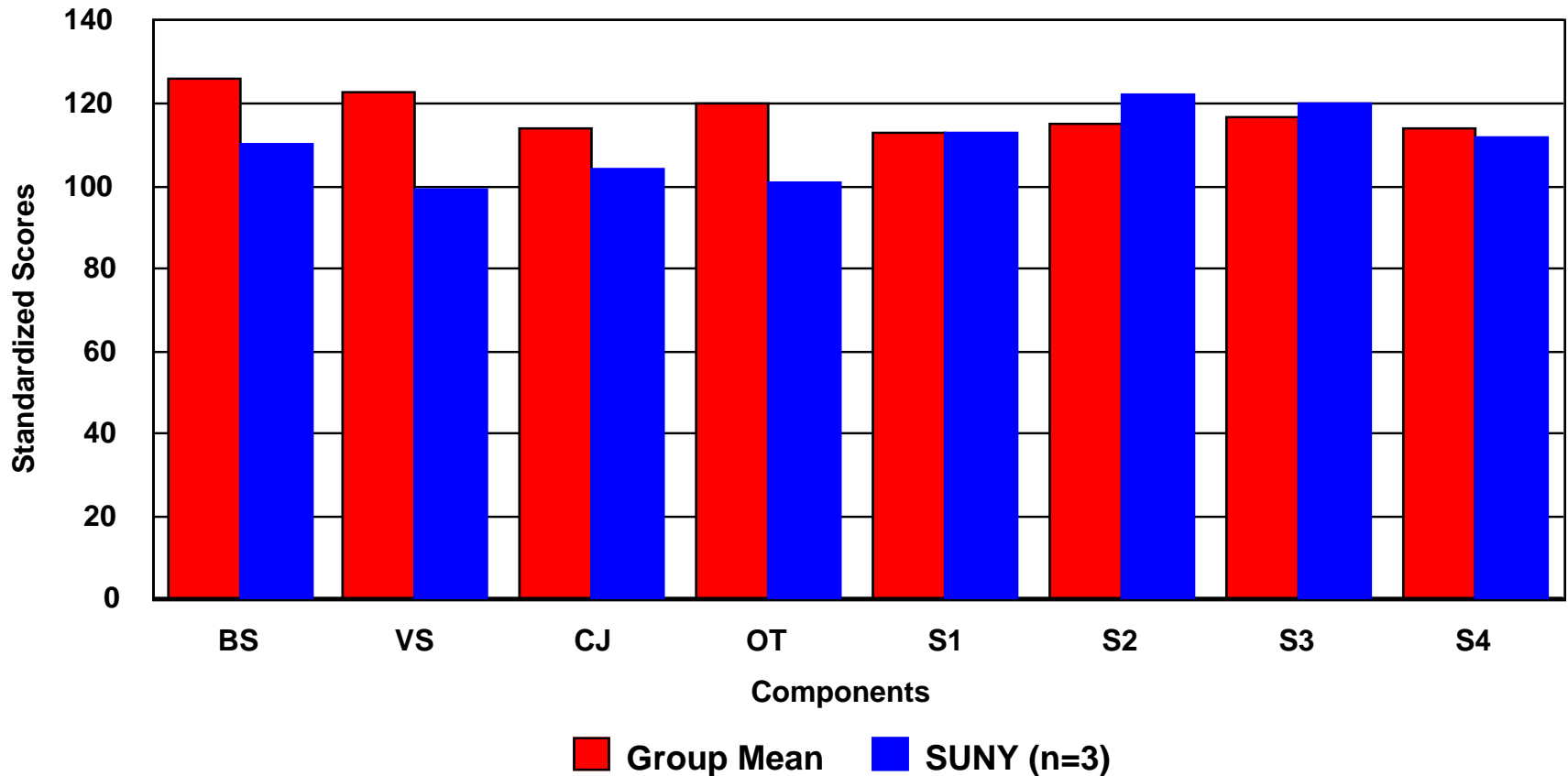
Pacific College - New Candidates 2003

Comparison By Component To Group Mean

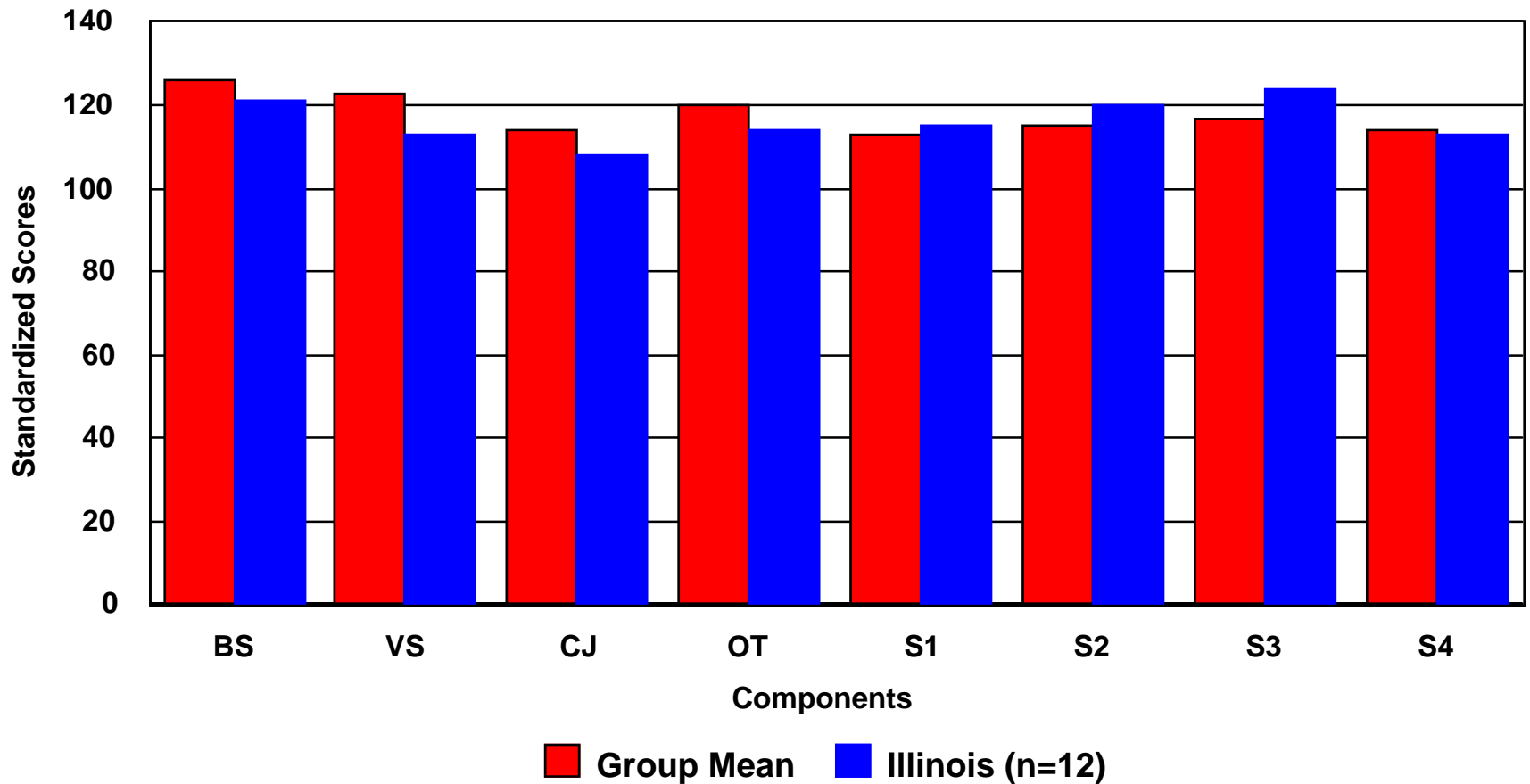


SUNY - New Candidates 2003

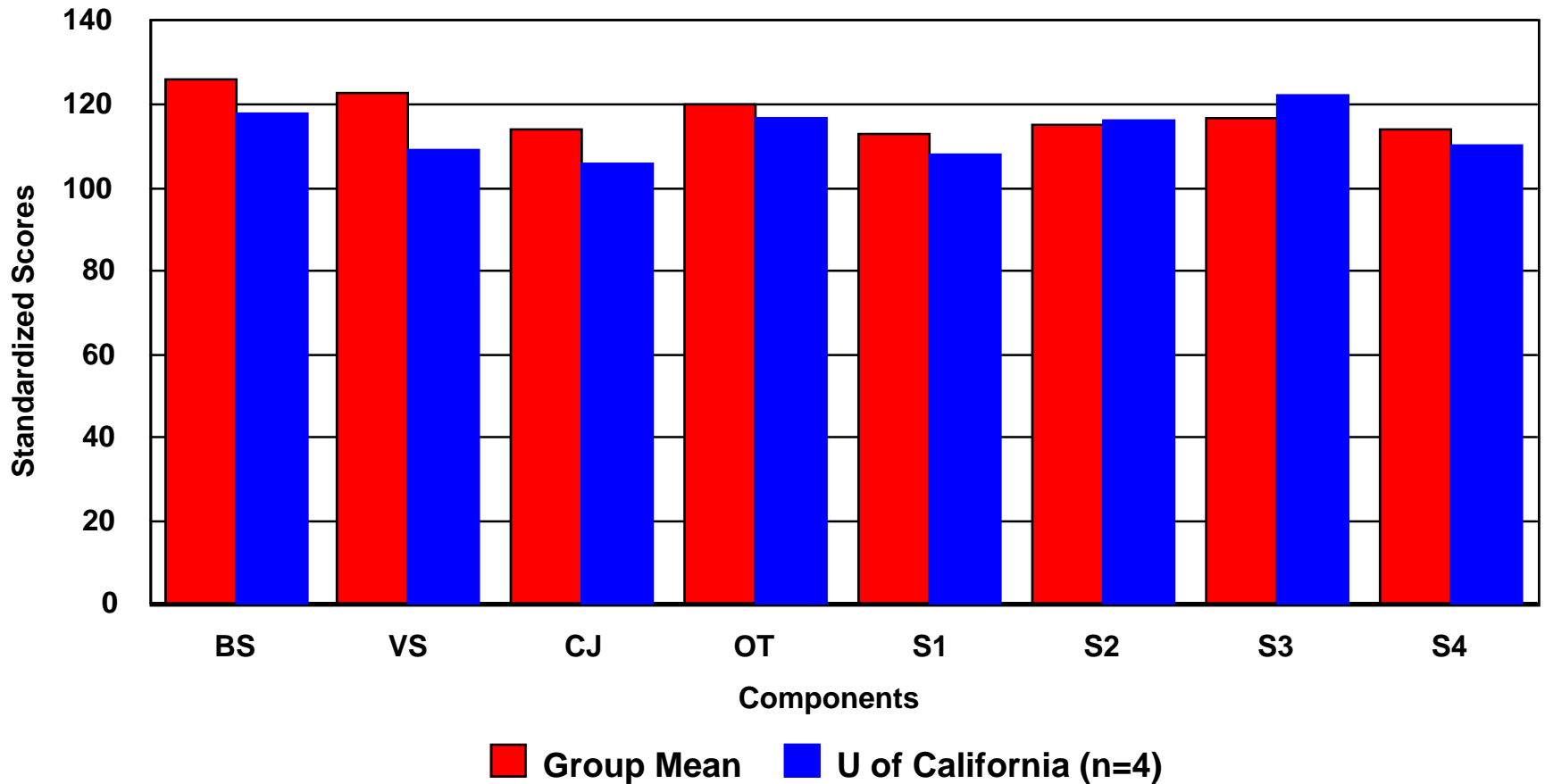
Comparison By Component To Group Mean



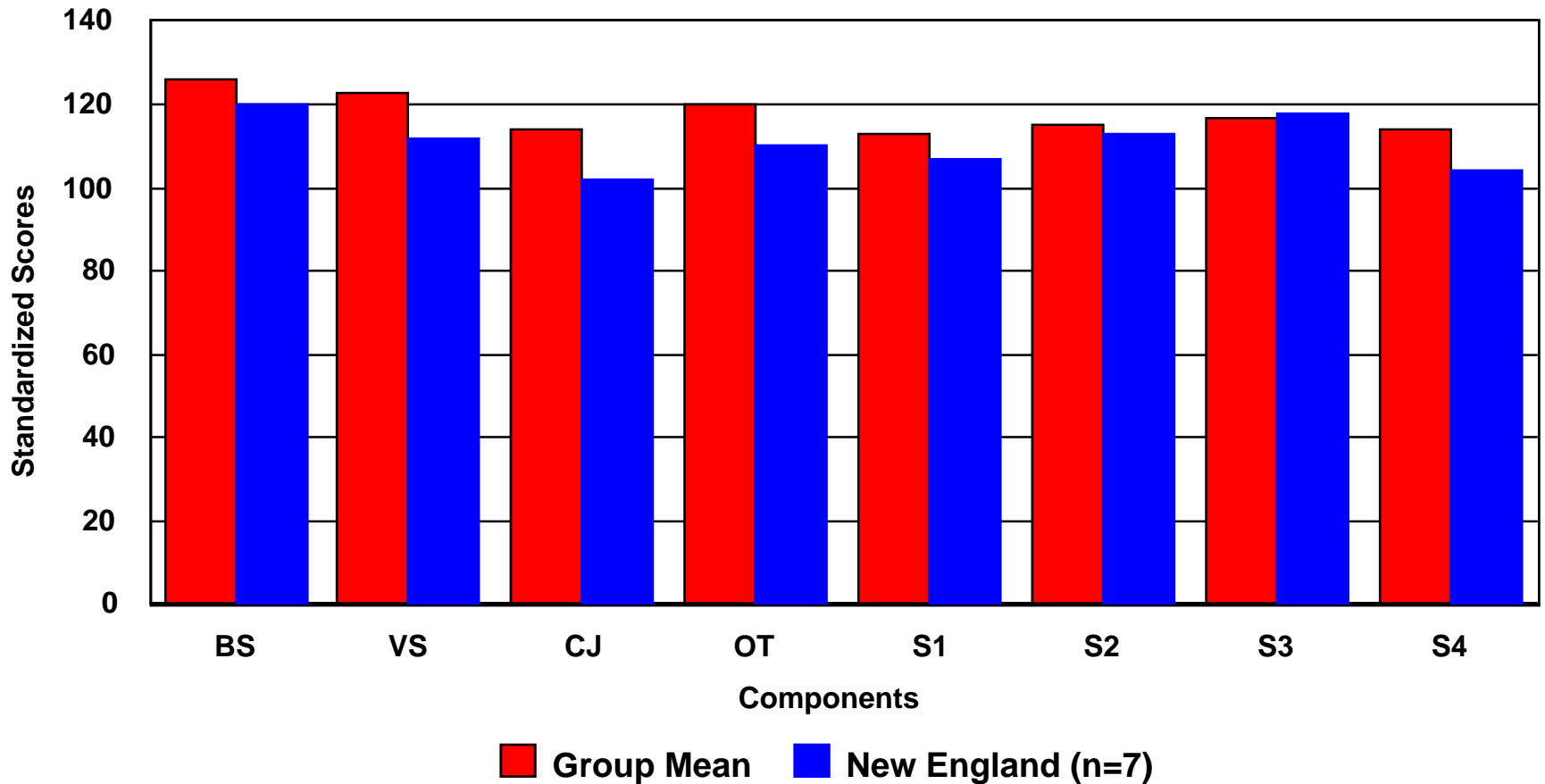
Illinois College - New Candidates 2003 Comparison By Component To Group Mean



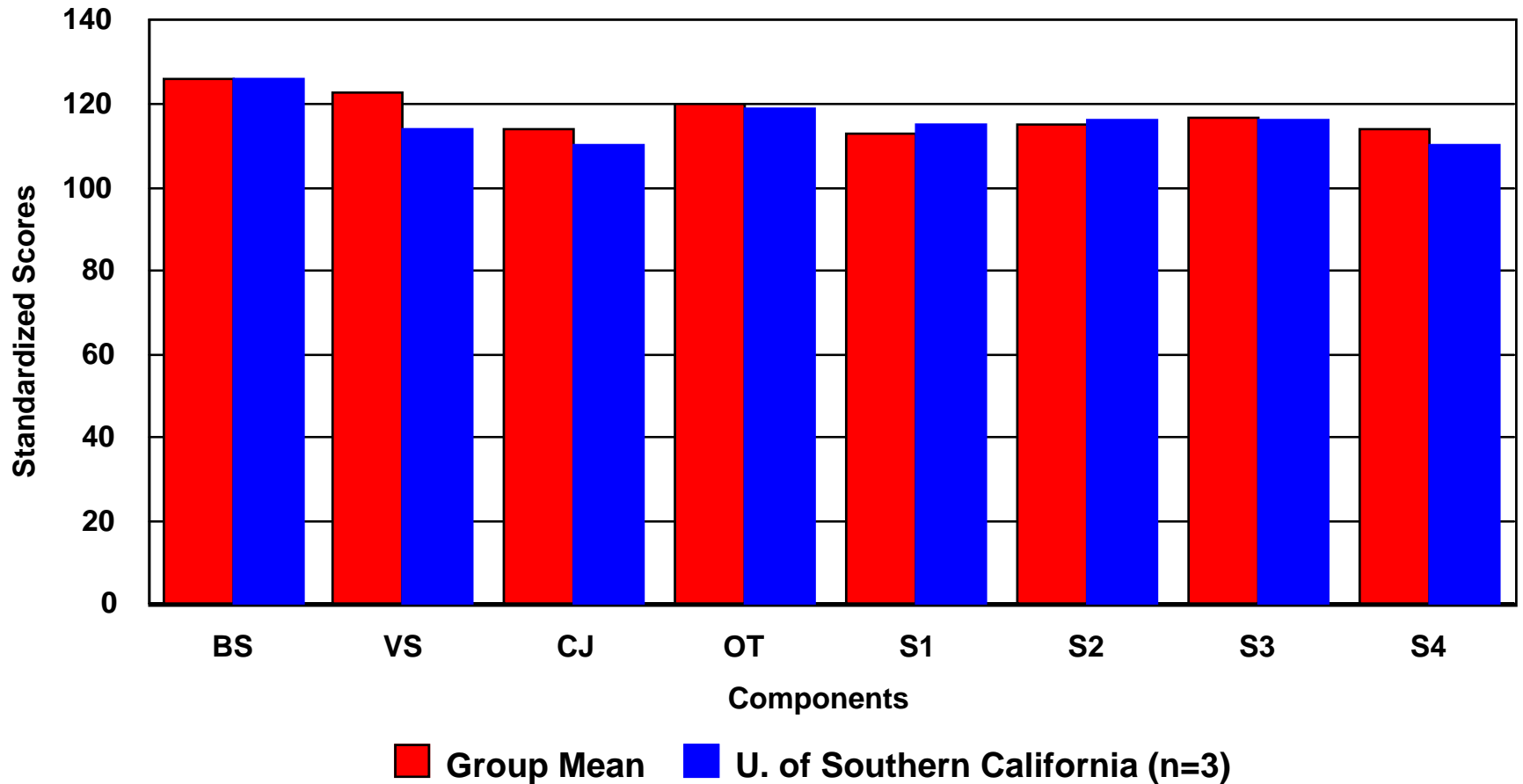
University of California - New Candidates 2003 Comparison By Component To Group Mean



New England College - New Candidates 2003 Comparison By Component To Group Mean

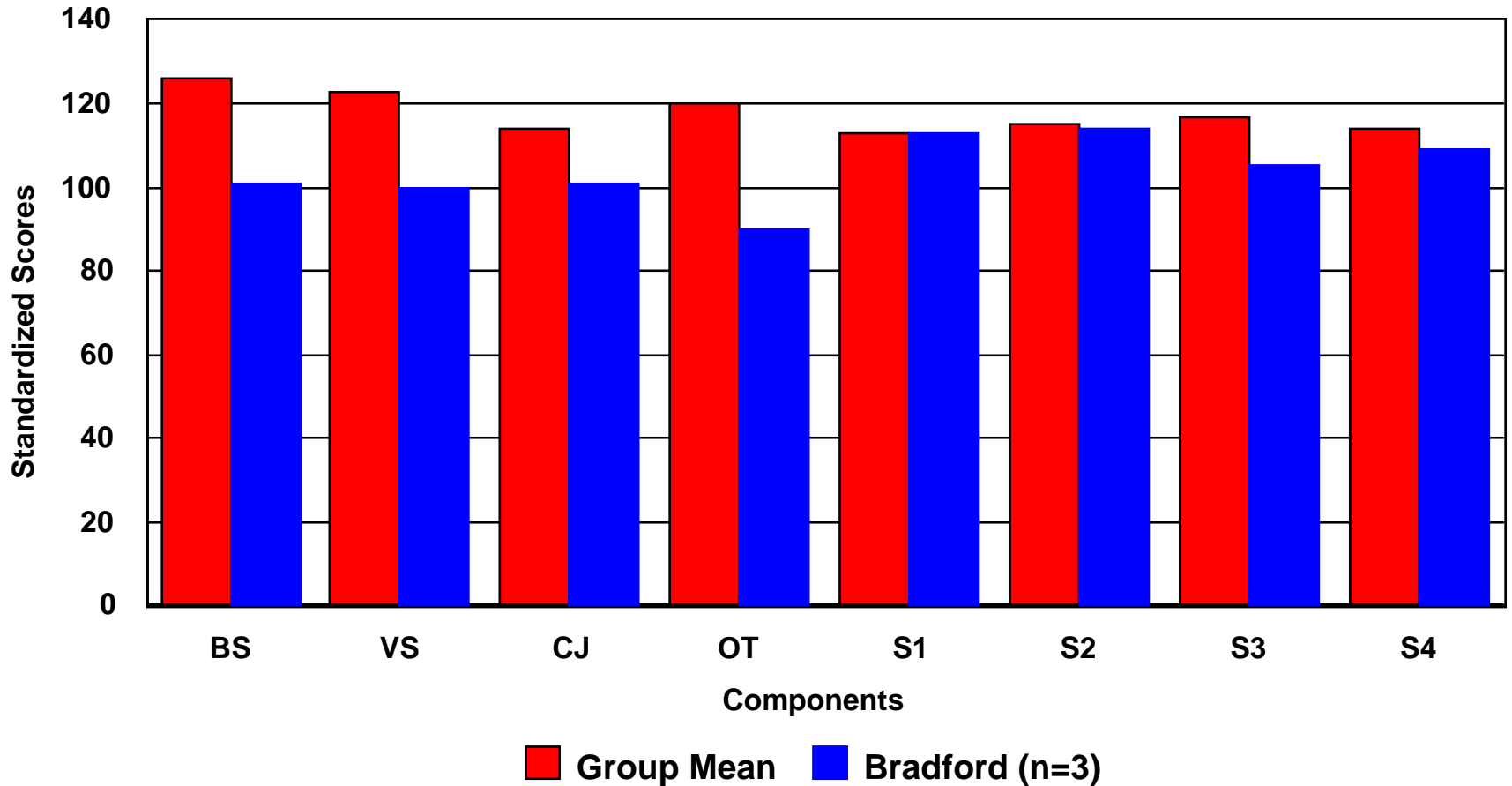


University of Southern California - New Candidates 2003 Comparison By Component To Group Mean



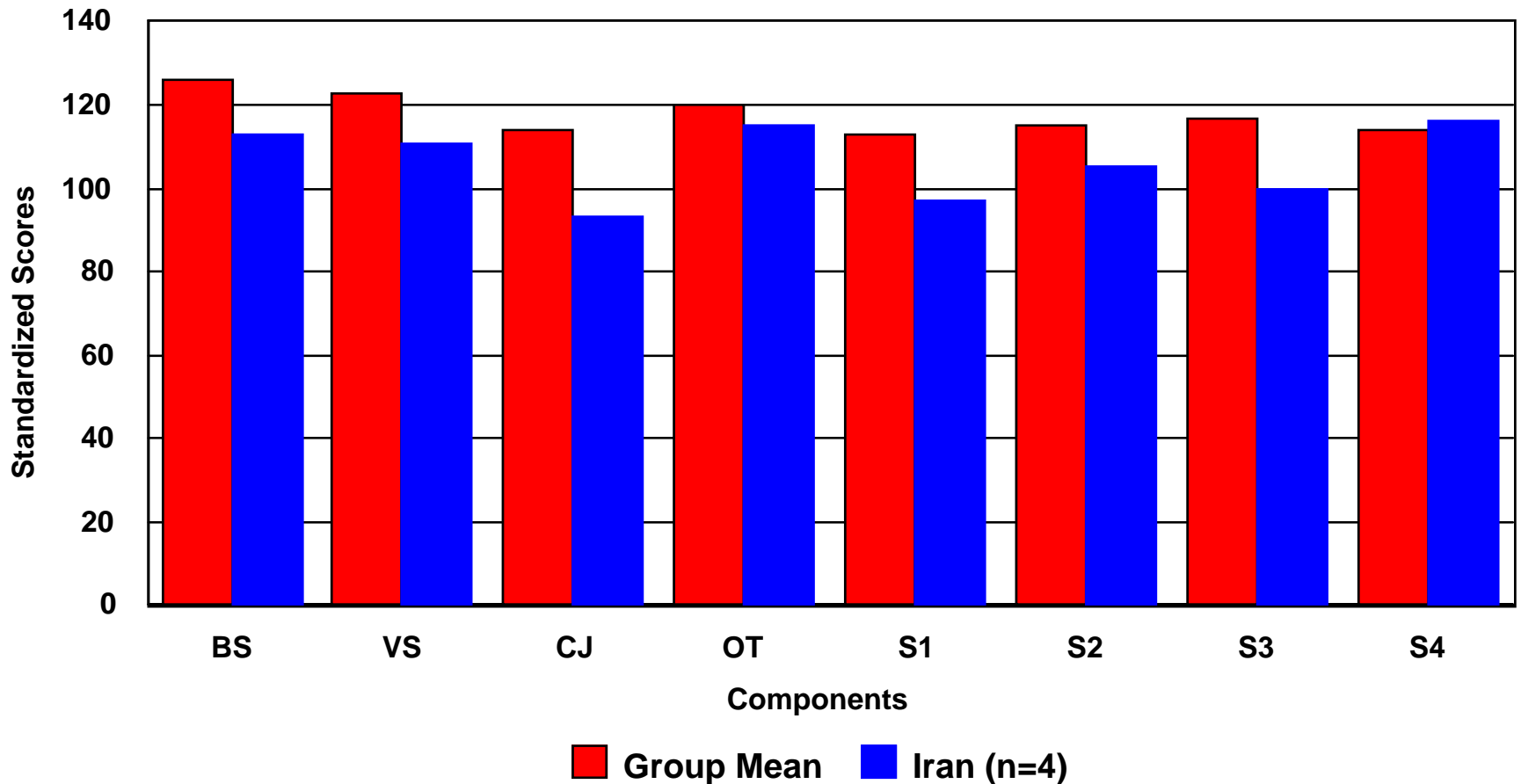
Bradford - New Candidates 2003

Comparison By Component To Group Mean

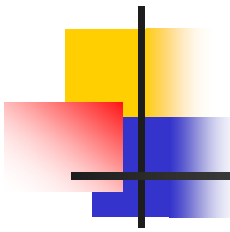


Iran - New Candidates 2003

Comparison By Component To Group Mean



Reliability Coefficients For CSAO Components 2003



Components	Standardized Cronbach's alpha
BS	.88
VS	.88
CJ	.73
OT	.72
S1	.66
S2	.68
S3	.77
S4	.73