



Executive Advisory Group

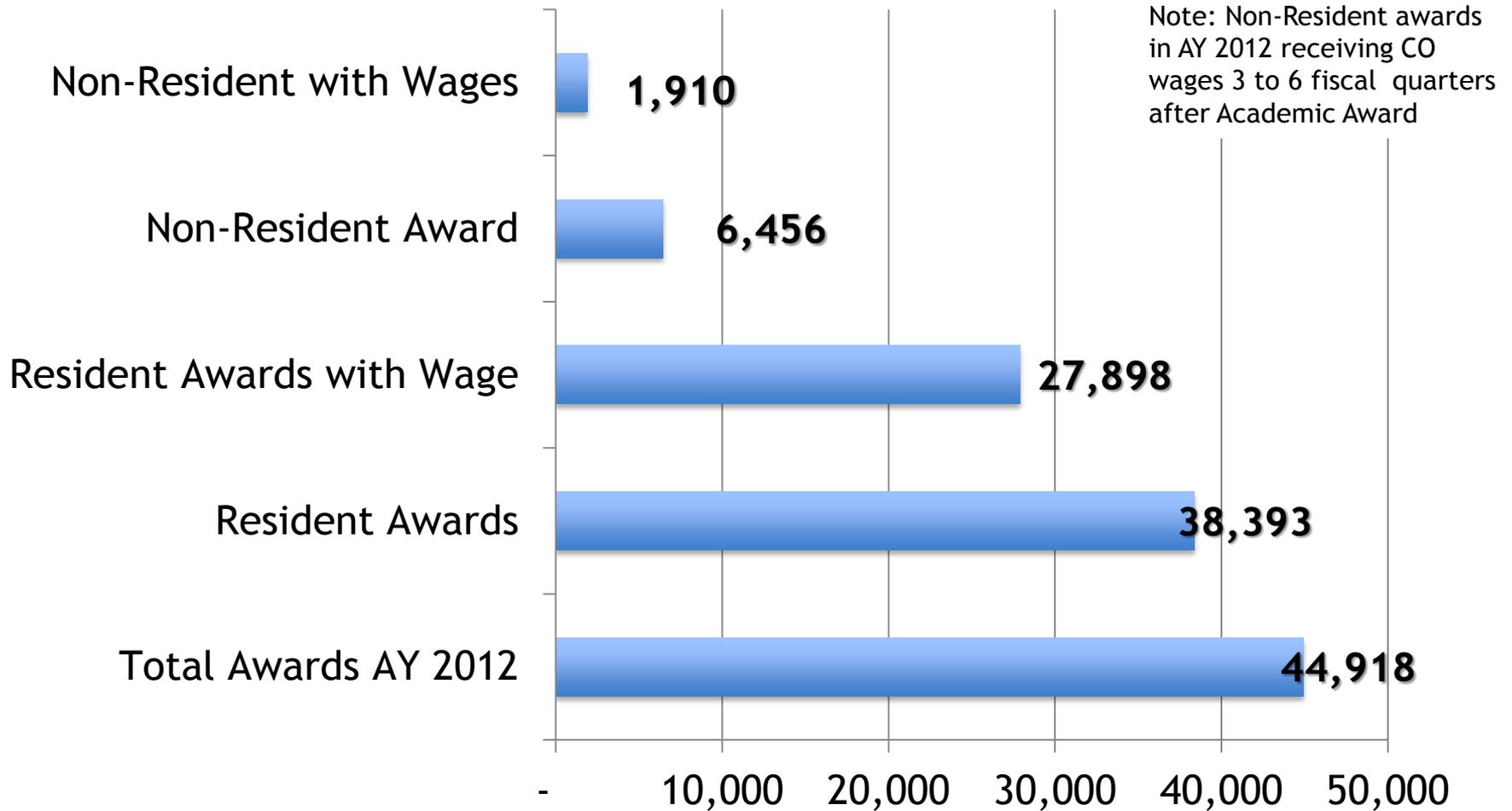
FAMET Recommendations: Data Definitions and Data Sources

September 24, 2014

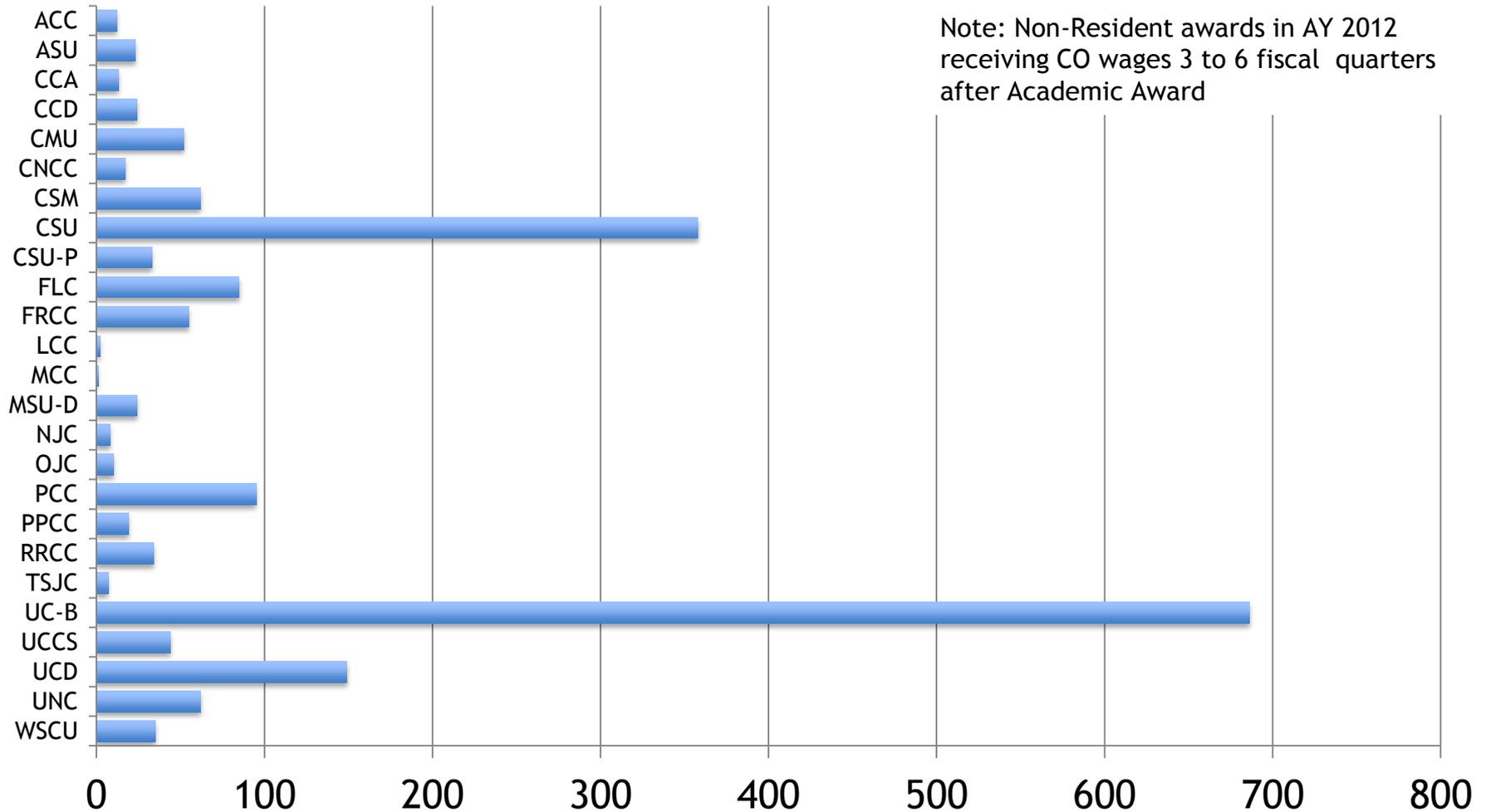


COLORADO
Department of
Higher Education

Awards and Wage Data AY 2012



Non-Resident Awards and Wage Data AY 2012 By Institution



Role and Mission: *Selectivity*

Definition

- **Admissions Factors:** Use the median of the following admission factors to create a weighted proxy index:
 - Entering ACT/SAT scores
 - High School GPA

Data Source

- Student Unit Record Data System (SURDS)

IHE	Index Score*	Statutory Category
Colorado School of Mines	68.8	Highly Selective
University of Colorado Boulder	63.5	Selective
Colorado State University-Fort Collins	61.2	Selective
University of Colorado Denver	57.6	Selective
University of Colorado-Colorado Springs	56.7	Selective
University of Northern Colorado	55.1	Selective
Fort Lewis College	55	Selective
Colorado Mesa University	54.8	Selective
Western State College of Colorado	53.9	Moderately Selective
Colorado State University-Pueblo	51.5	Moderately Selective
Adams State College	51	Moderately Selective
Metropolitan State College of Denver	49.6	Modified Open

*Index Score is the 3-year average of $10(\text{Median HSGPA}) + \text{Median ACT}$

Role and Mission: *Number of Campuses*

Definition

- **Higher Learning Commission (HLC) definition, which relies on location having all of the following four attributes:**
 - Is permanent in nature;
 - Offers courses in education programs leading to a degree, certificate, or other recognized educational credential;
 - Has its own faculty and administrative or supervisory organization; and,
 - Has its own budgetary and hiring authority.

Data Source

- Higher Learning Commission

Institution Name	Total Campus
Adams State U.	1
Arapahoe Comm. College	1
Colorado Mesa University	3
CO Northwestern Community College	2
CO School of Mines	1
Colorado State U. - Fort Collins	1
Colorado State U. - Pueblo	1
Comm. College of Aurora	1
Comm. College of Denver	1
Fort Lewis College	1
Front Range Community College	3
Lamar Community College	1
Metropolitan State University of Denver	1
Morgan Comm. College	1
Northeastern Junior College	1
Otero Junior College	1
Pikes Peak Community College	1
Pueblo Community College	4
Red Rocks Comm. College	2
Trinidad St. Junior College	2
University of CO - Boulder	1
University of CO - Colorado Springs	1
University of CO - Denver	2
University of Northern CO	1
Western State CO U.	1

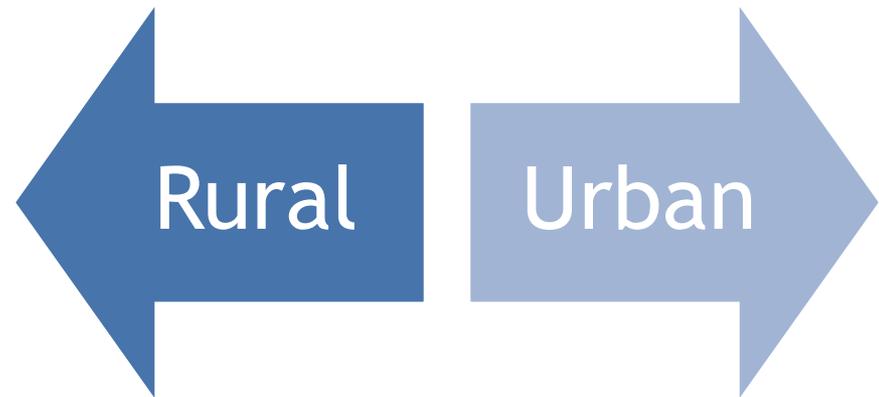
Role and Mission: *Rural or Urban*

Definition

- Population of home county counts.

Data Source

- U.S. Census Bureau



Population of Home County - 4-Year

Institution	County	Population
University of Colorado-Colorado Springs	El Paso	655,044
University of Colorado Denver	Denver	649,495
Metropolitan State College of Denver	Denver	649,495
Colorado School of Mines	Jefferson	551,798
Colorado State University-Fort Collins	Larimer	315,988
University of Colorado Boulder	Boulder	310,048
University of Northern Colorado	Weld	269,785
Colorado State University-Pueblo	Pueblo	161,451
Colorado Mesa University	Mesa	147,554
Fort Lewis College	La Plata	53,284
Adams State College	Alamosa	16,253
Western State College of Colorado	Gunnison	15,507

Population of Home County - 2-Year

Institution	County	Population
Pikes Peak Community College	El Paso	655,044
Community College of Denver	Denver	649,495
Arapahoe Community College	Arapahoe	607,070
Community College of Aurora	Arapahoe	607,070
Red Rocks Community College	Jefferson	551,798
Front Range Community College	Adams	469,193
Pueblo Community College	Pueblo	161,451
Morgan Community College	Morgan	28,404
Northeastern Junior College	Logan	22,450
Otero Junior College	Otero	18,703
Trinidad State Junior College	Las Animas	14,446
Lamar Community College	Prowers	12,291
Colorado Northwestern Community College	Rio Blanco	6,807

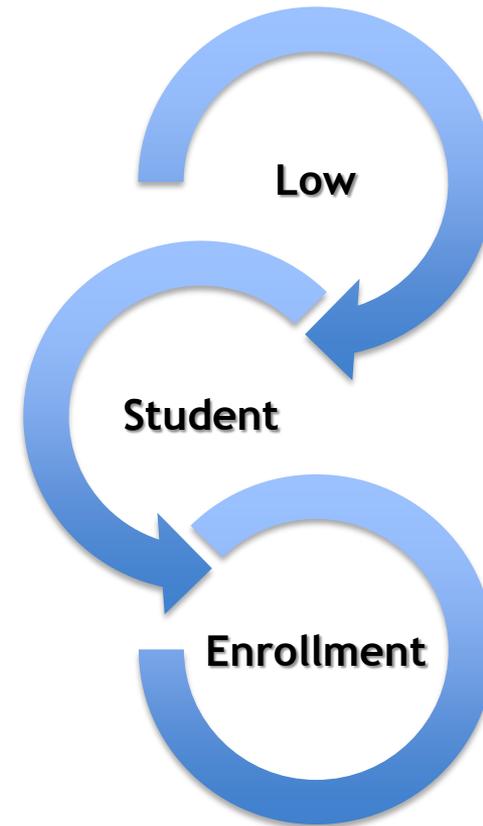
Role and Mission: *Low Student Enrollment*

Definition

- Actual enrollment on a gradient scale.

Data Source

- NCHEMS, NCES IPEDS



NCHEMS conducted a national comparative analysis on low student enrollment and presented results to the FAMET. The analysis illustrated how Colorado institutions fell comparatively based upon state and local appropriations, tuition, and fees / per college FTE. This clearly identified Adams State, Fort Lewis, and Western State as the outliers.

The majority of the FAMET agreed on this definition, *one member was undecided due not knowing how it would impact the overall model.*

- However, the team wants to reserve re-examination of this metric until the model is further developed and how this variable could be used to balance disproportionate outcomes.

Annual FTES, Colorado Public 4-Year Institutions

Institution	Annual FTES
University of Colorado Boulder	28,946
Colorado State University-Fort Collins	25,905
Metropolitan State College of Denver	17,506
University of Colorado Denver	15,110
University of Northern Colorado	11,546
University of Colorado-Colorado Springs	8,365
Colorado Mesa University	7,382
Colorado State University-Pueblo	6,291
Colorado School of Mines	5,318
Fort Lewis College	3,545
Adams State College	2,843
Western State College of Colorado	2,027

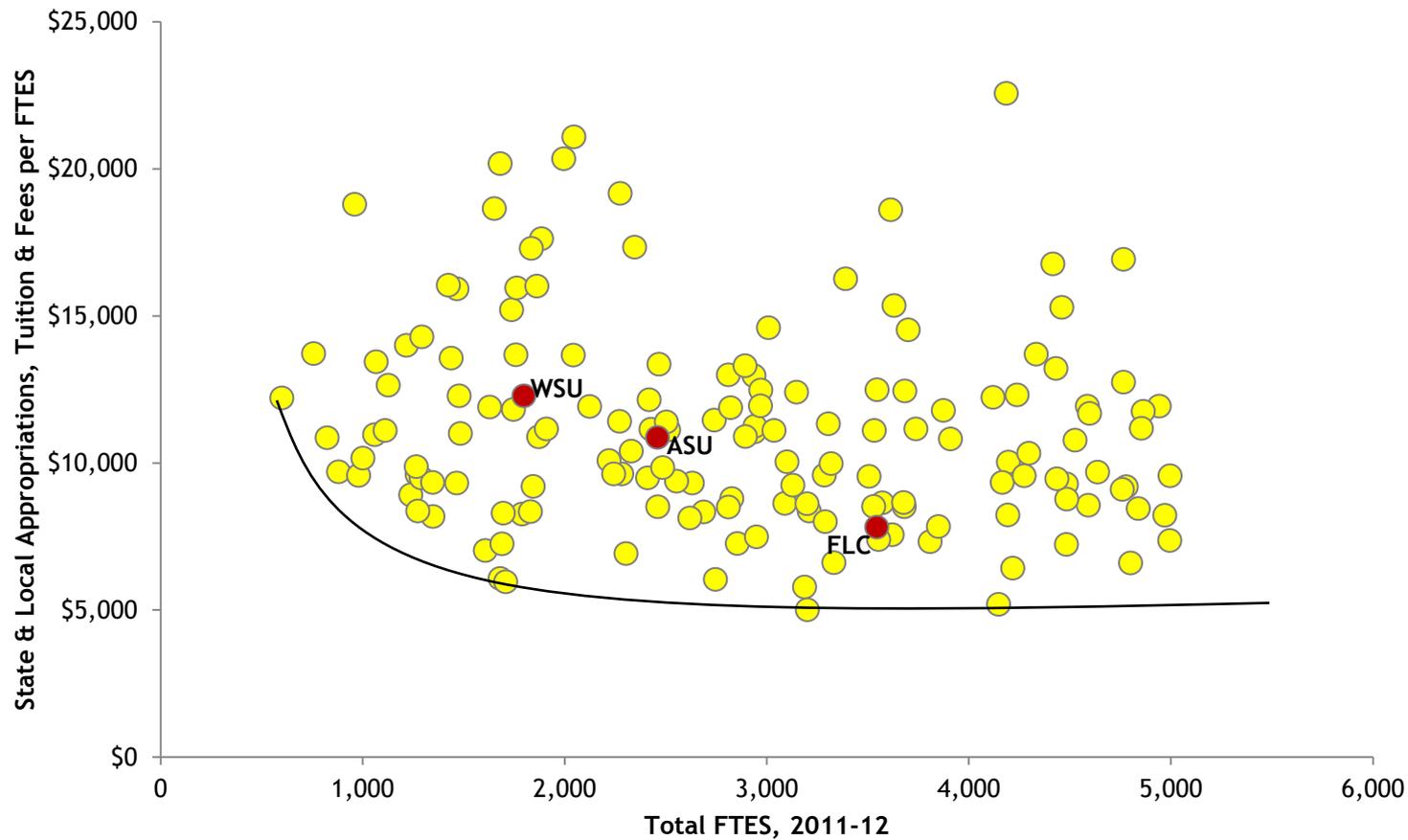
Annual FTES, Colorado Public 2-Year Institutions

Institution	Annual FTES
Front Range Community College	14,025
Pikes Peak Community College	10,967
Community College of Denver	8,277
Red Rocks Community College	6,546
Arapahoe Community College	6,067
Pueblo Community College	5,737
Community College of Aurora	4,822
Trinidad State Junior College	1,569
Northeastern Junior College	1,529
Otero Junior College	1,226
Morgan Community College	1,065
Colorado Northwestern Community College	796
Lamar Community College	705

Source: NCHEMS NCES IPED Enrollments, Fall 2011

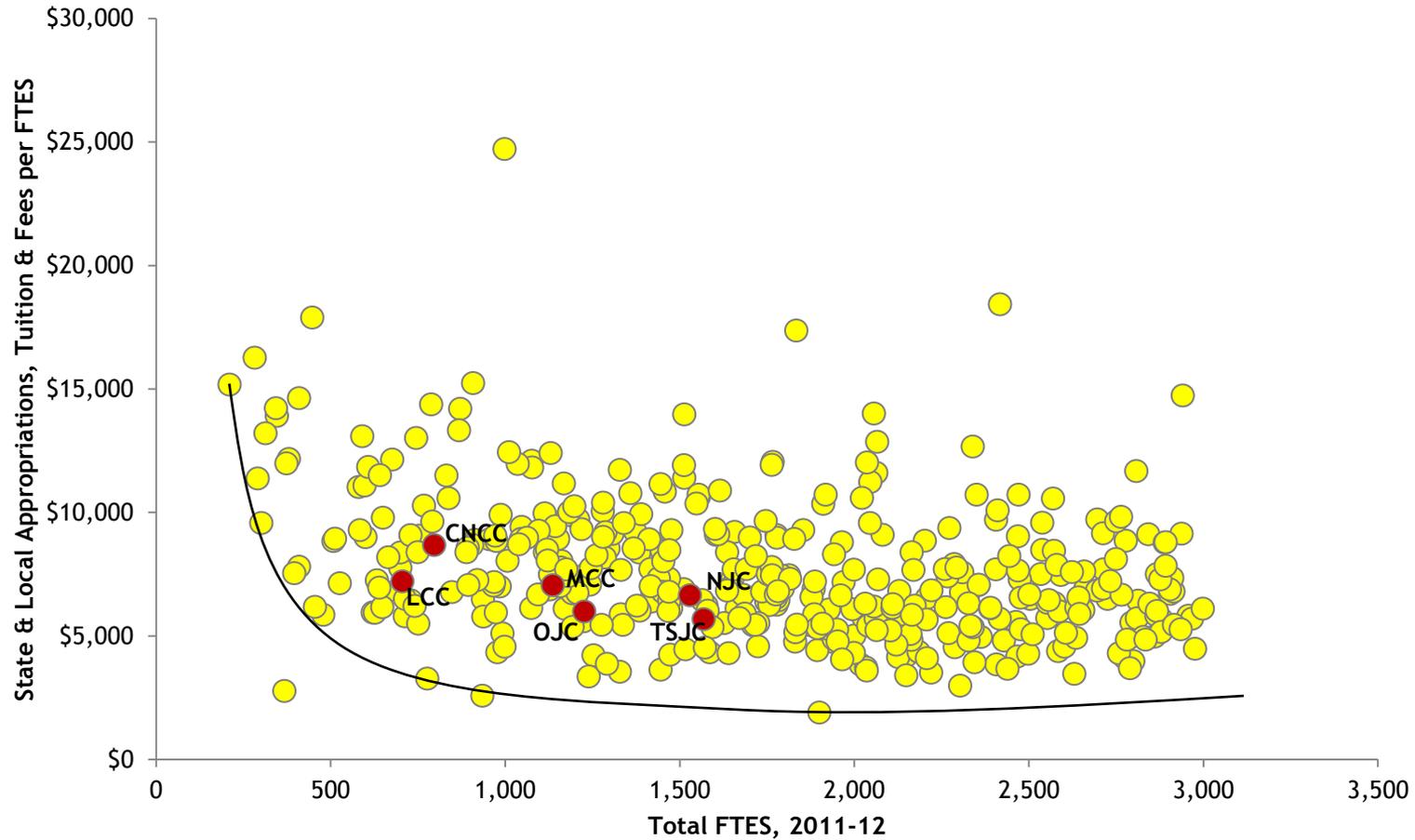
FTES vs. Total Funding per FTES, 2011-12

Public 4-year (<5,000 FTES)



Source: NCES, IPEDS 2011-12 Finance Files, 2011-12 Instructional Activity File.

FTES vs. Total Funding per FTES, 2011-12 Public Associates (<3,000 FTES)



Source: NCES, IPEDS 2011-12 Finance Files, 2011-12 Instructional Activity File.

Role and Mission: *Programs with a high cost per student*

Definition

- **NCHEMS High Cost Index Model:** An index score created by weighted undergraduate FTE divided by the un-weighted undergraduate FTE. Weights will be informed from the results of cost studies in other states.

Data Source

- NCHEMS, SURDS, other state studies

COMMUNITY COLLEGES AND STATE COLLEGE

Discipline Clusters	Lower Division	Upper Division	Masters	Doctoral
Liberal Arts, Math, Social Science, Languages, Other	1.0	2.0	4.0	5.0
05. Area, Ethnic, Cultural & Gender Studies	1.0	2.0	4.0	5.0
09. Communication, Journalism and related programs	1.0	2.0	4.0	5.0
16. Foreign Languages, Literature and Linguistics	1.0	2.0	4.0	5.0
19. Family and Consumer Sciences/Human Sciences	1.0	2.0	4.0	5.0
23. English Language & Literature/Letters	1.0	2.0	4.0	5.0
24. Liberal Arts & Sciences, General Studies and Humanities	1.0	2.0	4.0	5.0
25. Library Science	1.0	2.0	4.0	5.0
27. Mathematics & Statistics	1.0	2.0	4.0	5.0
28. Reserve Officer Training Corps	1.0	2.0	4.0	5.0
29. Military Technologies	1.0	2.0	4.0	5.0
30. Multi/Interdisciplinary Studies	1.0	2.0	4.0	5.0
38. Philosophy & Religious Studies	1.0	2.0	4.0	5.0
42. Psychology and Applied Psychology	1.0	2.0	4.0	5.0
45. Social Sciences	1.0	2.0	4.0	5.0
54. History	1.0	2.0	4.0	5.0
99. Honors Curriculum and Other	1.0	2.0	4.0	5.0

Source: Nevada System of Higher Education

Weights by Discipline Cluster

COMMUNITY COLLEGES AND STATE COLLEGE

Discipline Clusters	Lower Division	Upper Division	Masters	Doctoral
Liberal Arts, Math, Social Science, Languages, Other	1.0	2.0	4.0	5.0
05. Area, Ethnic, Cultural & Gender Studies	1.0	2.0	4.0	5.0
09. Communication, Journalism and related programs	1.0	2.0	4.0	5.0
16. Foreign Languages, Literature and Linguistics	1.0	2.0	4.0	5.0
19. Family and Consumer Sciences/Human Sciences	1.0	2.0	4.0	5.0
23. English Language & Literature/Letters	1.0	2.0	4.0	5.0
24. Liberal Arts & Sciences, General Studies and Humanities	1.0	2.0	4.0	5.0
25. Library Science	1.0	2.0	4.0	5.0
27. Mathematics & Statistics	1.0	2.0	4.0	5.0
28. Reserve Officer Training Corps	1.0	2.0	4.0	5.0
29. Military Technologies	1.0	2.0	4.0	5.0
30. Multi/Interdisciplinary Studies	1.0	2.0	4.0	5.0
38. Philosophy & Religious Studies	1.0	2.0	4.0	5.0
42. Psychology and Applied Psychology	1.0	2.0	4.0	5.0
45. Social Sciences	1.0	2.0	4.0	5.0
54. History	1.0	2.0	4.0	5.0
99. Honors Curriculum and Other	1.0	2.0	4.0	5.0
Basic Skills Cluster	1.0			
32. Basic Skills	1.5			
Business Cluster	1.0	2.0	4.0	6.0
44. Public Administration & Social Service Professions	1.0	2.0	4.0	6.0
52. Business Management, Marketing & related support services	1.0	2.0	4.0	6.0
Education Cluster	1.5	2.0	2.5	5.0
13. Education	1.5	2.0	2.5	5.0

Weights by Discipline Cluster

(continued)

Services Cluster	1.5	2.0	3.0	4.0
31. Parks, Recreation, Leisure & Fitness Studies	1.5	2.0	3.0	4.0
12. Personal & Culinary Services	1.5	2.0	3.0	4.0
43. Security and Protective Services	1.5	2.0	3.0	4.0
Visual and Performing Arts Cluster	1.5	2.5	5.0	5.0
50. Visual & Performing Arts	1.5	2.5	5.0	5.0
Trades/Tech Cluster	2.0	2.5		
46. Construction Trades	2.0	2.5		
47. Mechanic Repair Technologies/Technicians	2.0	2.5		
48. Precision Production	2.0	2.5		
49. Transportation & Materials Moving	2.0	2.5		
Sciences Cluster	2.0	3.0	5.0	8.0
01. Agricultural, Agriculture Operations & related sciences	2.0	3.0	5.0	8.0
03. Natural Resources & Conservation	2.0	3.0	5.0	8.0
11. Computer & Information Sciences & Support Services	2.0	3.0	5.0	8.0
26. Biological & Biomedical Sciences	2.0	3.0	5.0	8.0
40. Physical Sciences	2.0	3.0	5.0	8.0
Law Cluster	2.0	2.0	4.0	4.0
22. Legal Professions and Studies	2.0	2.0	4.0	4.0
Engineering/Architecture Cluster	2.0	3.0	5.0	8.0
04. Architecture	2.0	3.0	5.0	8.0
14. Engineering	2.0	3.0	5.0	8.0
15. Engineering Technologies/Technicians	2.0	3.0	5.0	8.0
Health Cluster	2.0	2.0	5.0	6.0
51. Nursing, Allied Health, Health Professions	2.0	2.5	5.0	6.0

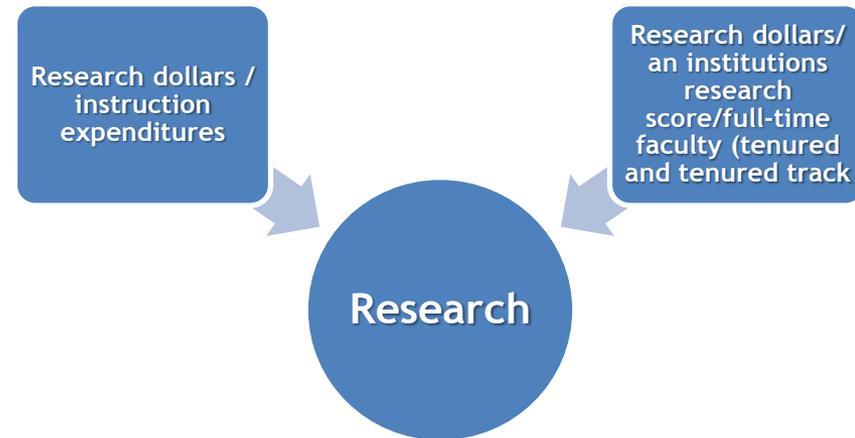
Role and Mission: *Research*

Definition

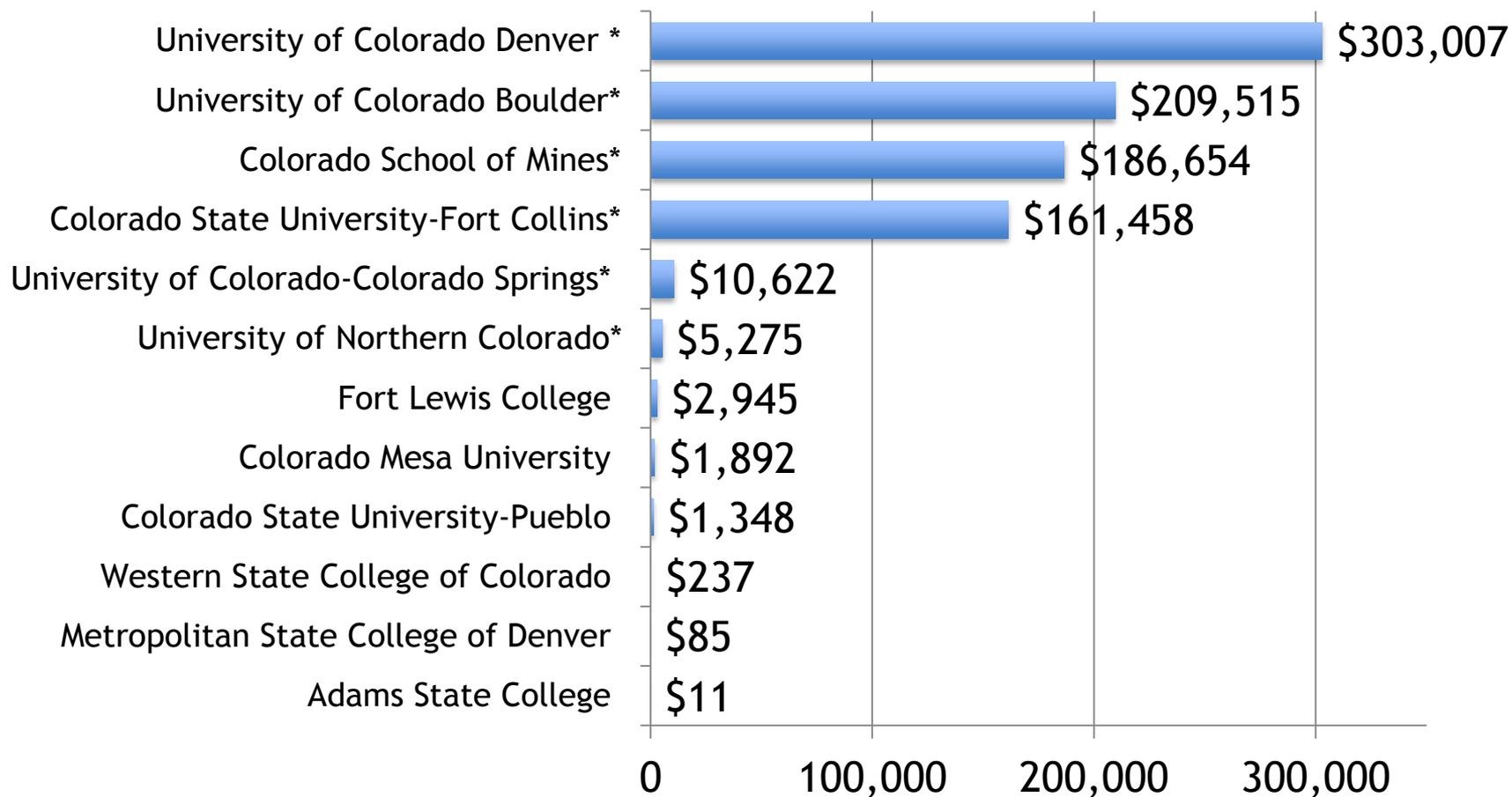
- **“Research-ness” Score:** NCHEMS presented two options for this metric.
 - Research dollars divided by instruction expenditures, and
 - Research dollars, divided by an institutions research score, divided by full-time faculty (tenured and tenured track)

Data Source

- IPEDS

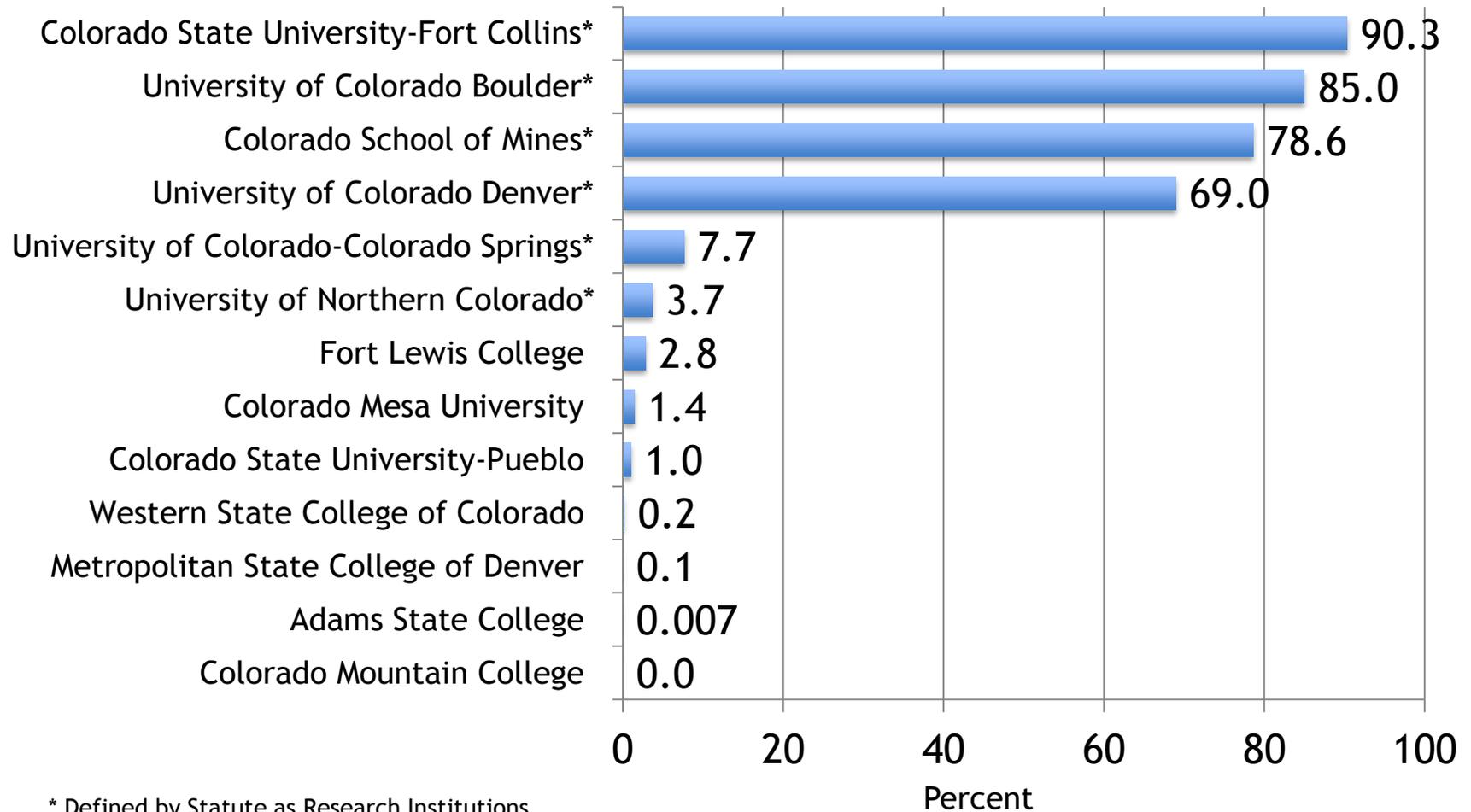


Research Expenditures per FT Faculty, 2011-12



* Defined by Statute as Research Institutions

Research \$ divided by Instruction \$



* Defined by Statute as Research Institutions

Role and Mission: *Pell-Eligible Students*

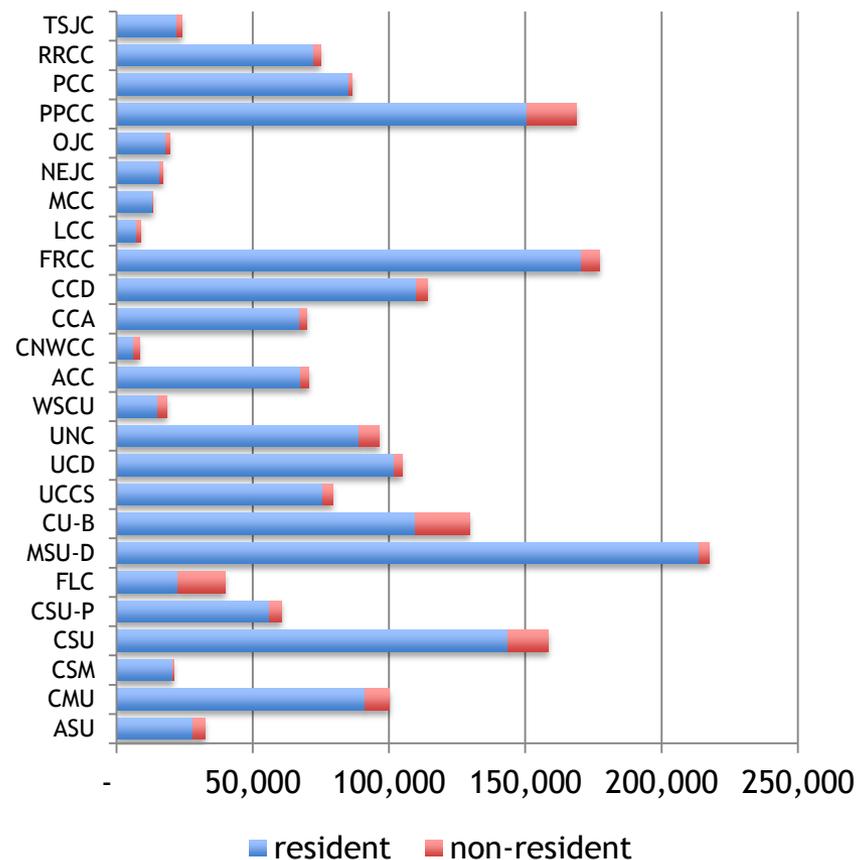
Definition

- Use Pell-Eligible as the metric:
 - Number of undergraduate students eligible for Pell at any time during the.

Data Source

- SURDS

Pell Eligible Credit Hours, 2013



Pell Eligible Credit Hours 2013	Pell Eligible Resident	Pell Eligible Non-Resident	Resident	Non-Resident	Total
4-Year					
Adams State College	28,169	4,222	87.00%	13.03%	32,391
Colorado Mesa University	91,166	8,931	91.10%	8.92%	100,097
Colorado School of Mines	20,842	61	99.70%	0.29%	20,903
Colorado State University-Fort Collins	143,576	14,959	90.60%	9.44%	158,535
Colorado State University-Pueblo	56,234	4,346	92.80%	7.17%	60,580
Fort Lewis College	22,675	17,365	56.60%	43.37%	40,040
Metropolitan State College of Denver	213,827	3,786	98.30%	1.74%	217,613
University of Colorado-Boulder	109,562	19,895	84.60%	15.37%	129,457
University of Colorado-Colorado Springs	75,809	3,475	95.60%	4.38%	79,284
University of Colorado-Denver	101,927	2,992	97.10%	2.85%	104,919
University of Northern Colorado	89,174	7,182	92.50%	7.45%	96,356
Western State College of Colorado	15,124	3,414	81.60%	18.42%	18,538
2-Year					
Arapahoe Community College	67,439	3,227	95.40%	4.57%	70,666
Colorado Northwestern Community College	6,366	2,128	74.90%	25.05%	8,494
Community College of Aurora	67,060	2,773	96.00%	3.97%	69,833
Community College of Denver	110,129	4,047	96.50%	3.54%	114,176
Front Range Community College	170,396	6,928	96.10%	3.91%	177,324
Lamar Community College	7,538	1,334	85.00%	15.04%	8,872
Morgan Community College	13,148	141	98.90%	1.06%	13,288
Northeastern Junior College	15,789	1,117	93.40%	6.61%	16,906
Otero Junior College	18,089	1,471	92.50%	7.52%	19,560
Pikes Peak Community College	150,747	18,020	89.30%	10.68%	168,767
Pueblo Community College	85,357	1,239	98.60%	1.43%	86,595
Red Rocks Community College	72,415	2,376	96.80%	3.18%	74,791
Trinidad State Junior College	22,149	2,016	91.70%	8.34%	24,165
Grand Total	1,774,705	137,443	92.8%	7.19%	1,912,147

Role and Mission: *Graduate programs with a high cost per student*

Definition

- **NCHEMS High Cost Index Model:** An index score created by weighted graduate FTE divided by the un-weighted graduate FTE. Weights will be informed from the results of cost studies in other states.

Data Source

- NCHEMS, SURDS, other state studies

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25. Library Science	1.0	2.0	4.0	5.0
27. Mathematics & Statistics	1.0	2.0	4.0	5.0
28. Reserve Officer Training Corps	1.0	2.0	4.0	5.0
29. Military Technologies	1.0	2.0	4.0	5.0
30. Multi/Interdisciplinary Studies	1.0	2.0	4.0	5.0
38. Philosophy & Religious Studies	1.0	2.0	4.0	5.0
42. Psychology and Applied Psychology	1.0	2.0	4.0	5.0
45. Social Sciences	1.0	2.0	4.0	5.0
54. History	1.0	2.0	4.0	5.0
99. Honors Curriculum and Other	1.0	2.0	4.0	5.0

Source: Nevada System of Higher Education

Weights by Discipline Cluster

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99. Honors Curriculum and Other	1.0	2.0	4.0	5.0
Basic Skills Cluster	1.0			
32. Basic Skills	1.5			
Business Cluster	1.0	2.0	4.0	6.0
44. Public Administration & Social Service Professions	1.0	2.0	4.0	6.0
52. Business Management, Marketing & related support services	1.0	2.0	4.0	6.0
Education Cluster	1.5	2.0	2.5	5.0
13. Education	1.5	2.0	2.5	5.0

Weights by Discipline Cluster

(continued)

Services Cluster	1.5	2.0	3.0	4.0
31. Parks, Recreation, Leisure & Fitness Studies	1.5	2.0	3.0	4.0
12. Personal & Culinary Services	1.5	2.0	3.0	4.0
43. Security and Protective Services	1.5	2.0	3.0	4.0
Visual and Performing Arts Cluster	1.5	2.5	5.0	5.0
50. Visual & Performing Arts	1.5	2.5	5.0	5.0
Trades/Tech Cluster	2.0	2.5		
46. Construction Trades	2.0	2.5		
47. Mechanic Repair Technologies/Technicians	2.0	2.5		
48. Precision Production	2.0	2.5		
49. Transportation & Materials Moving	2.0	2.5		
Sciences Cluster	2.0	3.0	5.0	8.0
01. Agricultural, Agriculture Operations & related sciences	2.0	3.0	5.0	8.0
03. Natural Resources & Conservation	2.0	3.0	5.0	8.0
11. Computer & Information Sciences & Support Services	2.0	3.0	5.0	8.0
26. Biological & Biomedical Sciences	2.0	3.0	5.0	8.0
40. Physical Sciences	2.0	3.0	5.0	8.0
Law Cluster	2.0	2.0	4.0	4.0
22. Legal Professions and Studies	2.0	2.0	4.0	4.0
Engineering/Architecture Cluster	2.0	3.0	5.0	8.0
04. Architecture	2.0	3.0	5.0	8.0
14. Engineering	2.0	3.0	5.0	8.0
15. Engineering Technologies/Technicians	2.0	3.0	5.0	8.0
Health Cluster	2.0	2.0	5.0	6.0
51. Nursing, Allied Health, Health Professions	2.0	2.5	5.0	6.0

Role and Mission: *Remediation*

Definition

- Proportion of first-time students identified as requiring remediation in a course level below 100.

Data Source

- SURDS

30 is the lowest level of remediation and currently requires completion of a three course sequence before entering into a credit bearing gateway course.

60 is the next level of remediation and currently requires completion of two courses before entering into a credit bearing gateway course.

90 is the highest level of remediation and currently requires completion of one course before entering into a credit bearing gateway course.

Performance: *Completion*

Definition

- **COMPLETION** - Certificates should be counted when issued for:
 - Gainful employment;
 - Programs spanning one year or more, or
 - For certificates of less than 24 hours, only those that represent the highest award earned at stop-out will be counted.
- Students earning multiple 1-2 year or 24 to 60 credit hour certificates in an academic year will have each earned certificate count as a separate outcome.

Data Source

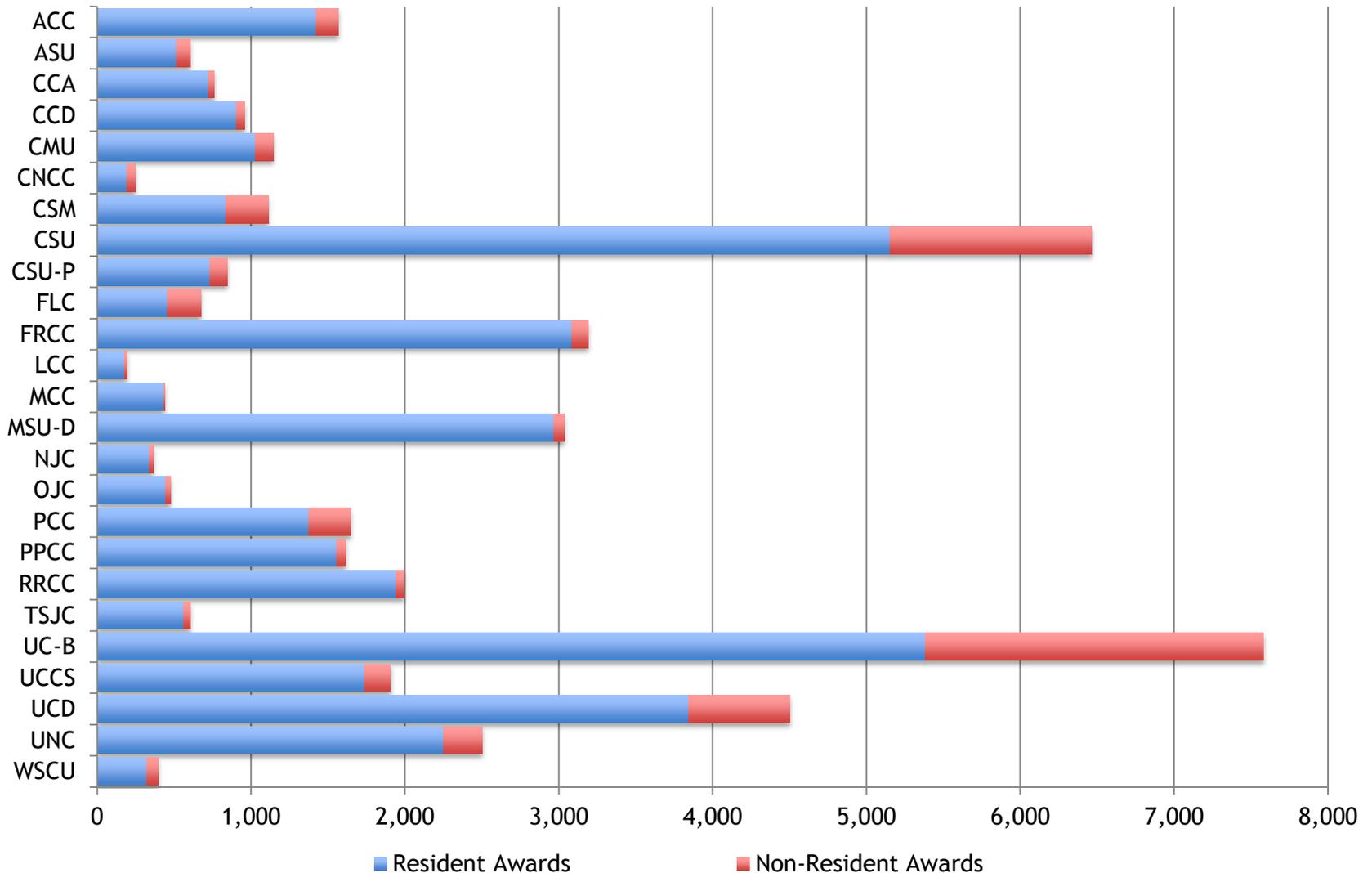
- SURDS

The amount shall be increased for each Pell-eligible

The FAMET also unanimously voted to include underserved populations in the completion metric as defined in the master plan

The FAMET group would like to opportunity to further discuss adding non-traditional students as an additional population to include in this metric.

Awards By Residency, AY 2012



Performance: *Completion (continued)*

Definition

- **TRANSFERS** - Minimum of 18 credit hours at time of transfer
- **ADDITIONAL** -include extra weighting for underserved populations in the completion metric.*

Data Source

- SURDS

Transfers:
Minimum of
18 Credit Hours

Performance: *Retention*

Definition

- Credit for number of students as follows:

- Four-year institutions - number of students who cross the threshold of completing:

- 30 credit hours
- 60 credit hours
- 90 credit hours

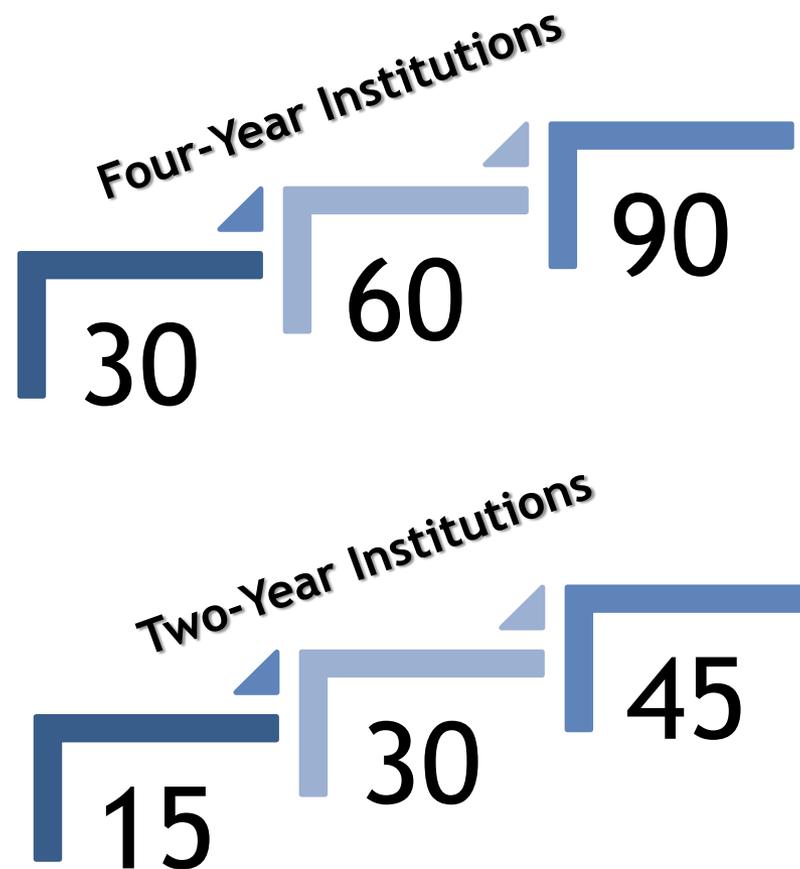
- **ADDITIONAL:**

- Two-year institutions - number of students who cross the threshold of completing:

- 15 credit hours
- 30 credit hours
- 45 credit hours

Data Source

- SURDS



Performance: *Successful Remediation*

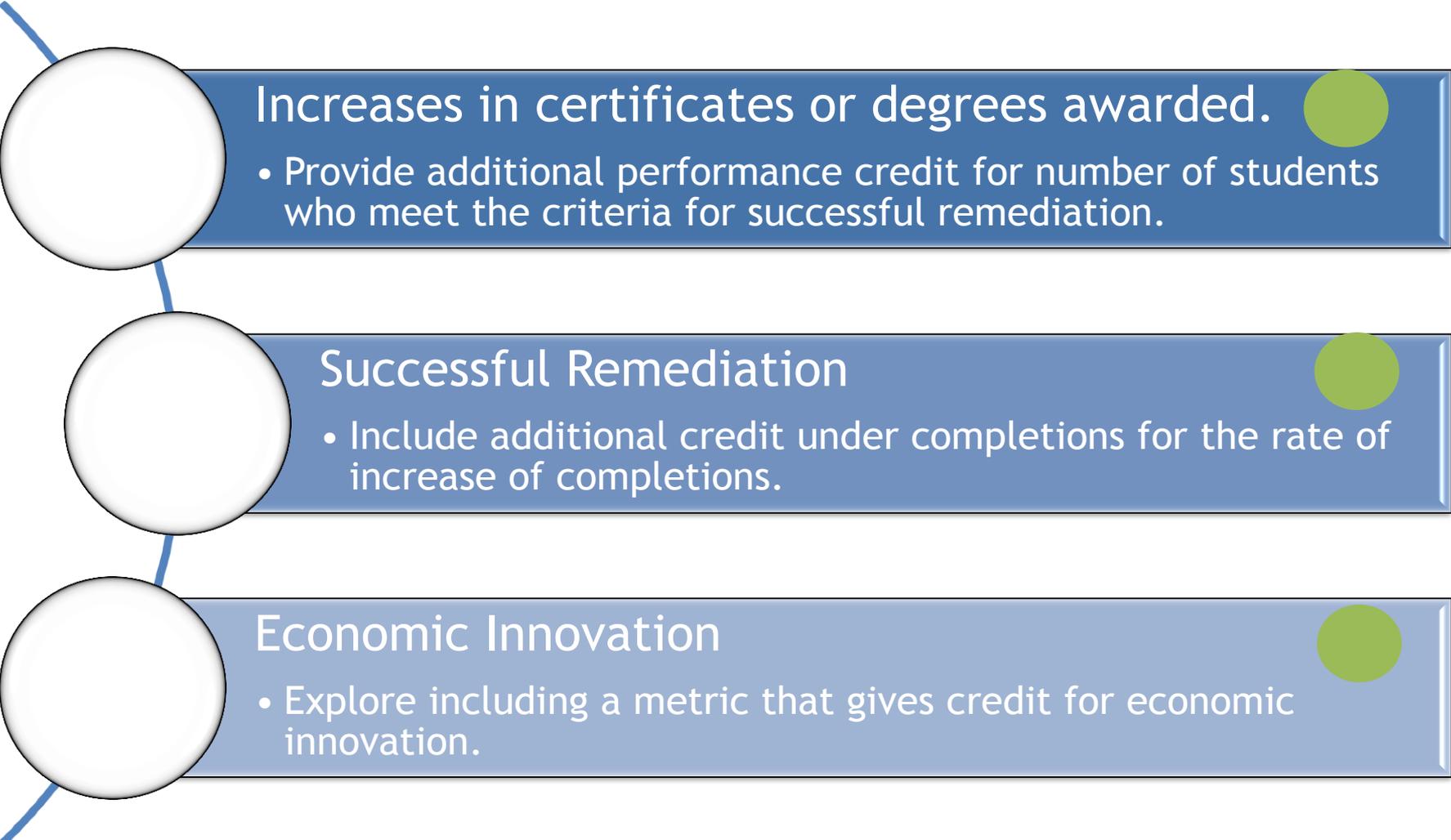
Definition

- The number of remedial students who **successfully complete** (within 30 credit hours):
 - 1st college credit gateway math course.
 - 1st college credit English gateway course.

Data Source

- SURDS

Additional Metrics



Increases in certificates or degrees awarded.

- Provide additional performance credit for number of students who meet the criteria for successful remediation.

Successful Remediation

- Include additional credit under completions for the rate of increase of completions.

Economic Innovation

- Explore including a metric that gives credit for economic innovation.

The Mays...

First generation

Closing the
achievement
gap

Limiting student
loan debt

Underserved
populations

Workforce
placement

Controlling
institutional
administrative
costs

Institutional
affordability

Career and
technical
programs

Technology
transfer

Cost studies



Questions



COLORADO
Department of
Higher Education

Priorities and Weights, Initial Discussion

Role and
Mission: Pell
Eligible

Must be *at least 10% of the COF Stipend*

COF Stipend

Must be *at least 52.5% of Total State Appropriation*

Priorities and Weights, Initial Discussion

Selectivity of the Institution

Number of Campuses

Rural or Urban

Low Student Enrollment

Programs That Have a High Cost Per Student

Research

Graduate Programs That Have a High Cost Per Student

Remediation

Place these factors in priority order to reflect their place in the institution's mission. Do not place numerical values in the boxes; think of this as a rank order for the factors on the left.

Highest Priority

Lowest Priority

Priorities and Weights, Initial Discussion

Lower Average = Greater Importance

