



PROGRESS REPORT

State Experiences Subcommittee

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Demographics and Other Little Known Facts about Study States

- Basic information on demographics compiled from two sources
 - Chronicle for Higher Education 2004-05 Almanac
 - [Http://chronicle.com/prm/weekly/almanac/2004/](http://chronicle.com/prm/weekly/almanac/2004/)
 - QuickFacts from US Census Bureau (2000)
 - [Http://quickfacts.census.gov/](http://quickfacts.census.gov/)
- Details on each state available in appendices





Demographic Information

Conclusions

- Arizona ranks 7th in population (2000 census) of the 11 states investigated.
- The western states tend to be more diverse than the other study states with California and Arizona leading the way. Hispanic/Latino students make up the largest minority group in each of the western states.
- Washington, California and Arizona have fewer students per 1000 population attending 4-year public institutions than the other study states.
- Arizona, California and Washington have more students per 1000 population attending 2-year public institutions than the other study states.
- The Midwestern and Eastern Study states tend to rely on private education more than the western states.





Arizona Plus 10 Additional Study States (4 Western, 1 Southern, 4 Midwestern and 1 Eastern State)

State	Population	White, not Hispanic	Largest Minority
Oregon	3,559,596	83.5%	Hispanic 8.0%
Colorado	4,550,688	74.5%	Hispanic 17.1%
Minnesota	5,059,375	88.2%	Black 3.5%
Wisconsin	5,472,299	87.3%	Black 5.7%
Arizona	5,580,811	63.8%	Hispanic 25.3%
Missouri	5,704,484	83.8%	Black 11.2%
Washington	6,131,445	78.9%	Hispanic 7.5%
North Carolina	8,407,248	70.2%	Black 21.6%
Michigan	10,079,985	78.6%	Black 14.2%
Pennsylvania	12,365,455	84.1%	Black 10.0%
California	35,484,453	46.7%	Hispanic 32.4%





Numbers of and Enrollment in Public 4-year Colleges and Universities

State	Population	Number of public 4-years	Enrollment in public 4-years
Oregon	3,559,596	9	76,155
Colorado	4,550,688	14	143,595
Minnesota	5,059,375	11	120,496
Wisconsin	5,472,299	13	149,193
Arizona	5,580,811	5 (2)	109,375
Missouri	5,704,484	13	123,818
Washington	6,131,445	11	96,556
North Carolina	8,407,248	16	169,792
Michigan	10,079,985	15	282,896
Pennsylvania	12,365,455	46	245,089
California	35,484,453	33	580,466



Numbers of and Enrollment in Public 2-year and Private 4-year Colleges and Universities

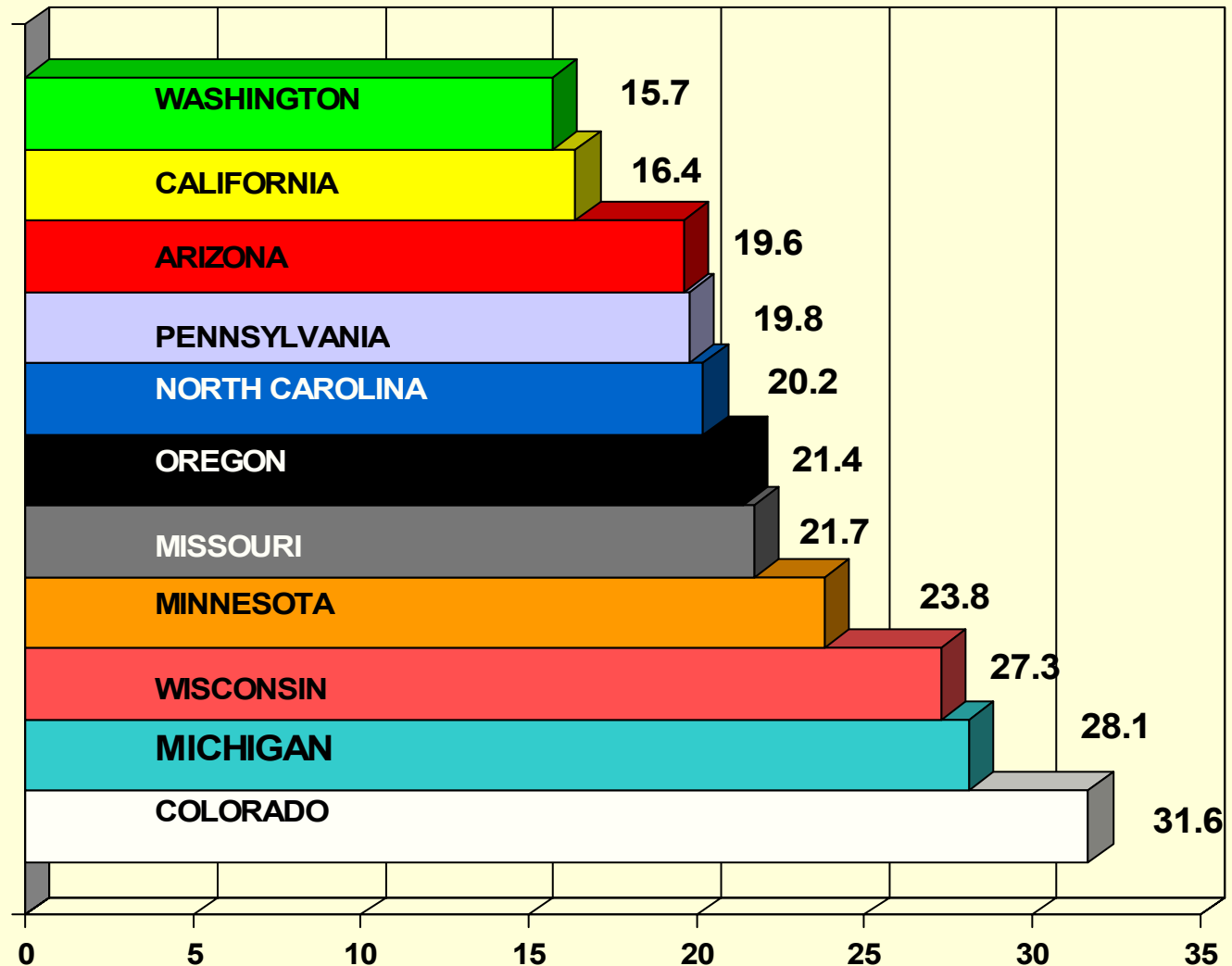
State	Two year colleges (N)	Two Year colleges Enrollment	Private non Profit 4-year (N)	Private 4-year Enrollment
Arizona	20	184,799	12	45744
California	110	1,462,716	148	301,688
Colorado	15	79,220	13	39,341
Michigan	30	199,258	58	102,302
Minnesota	41	105,445	35	76,374
Missouri	19	82,903	55	116,020
North Carolina	59	180,892	41	75,407
Oregon	17	86,490	24	27,426
Pennsylvania	21	108,869	97	245,803
Washington	34	180,467	20	44,450
Wisconsin	18	108,695	28	56,953





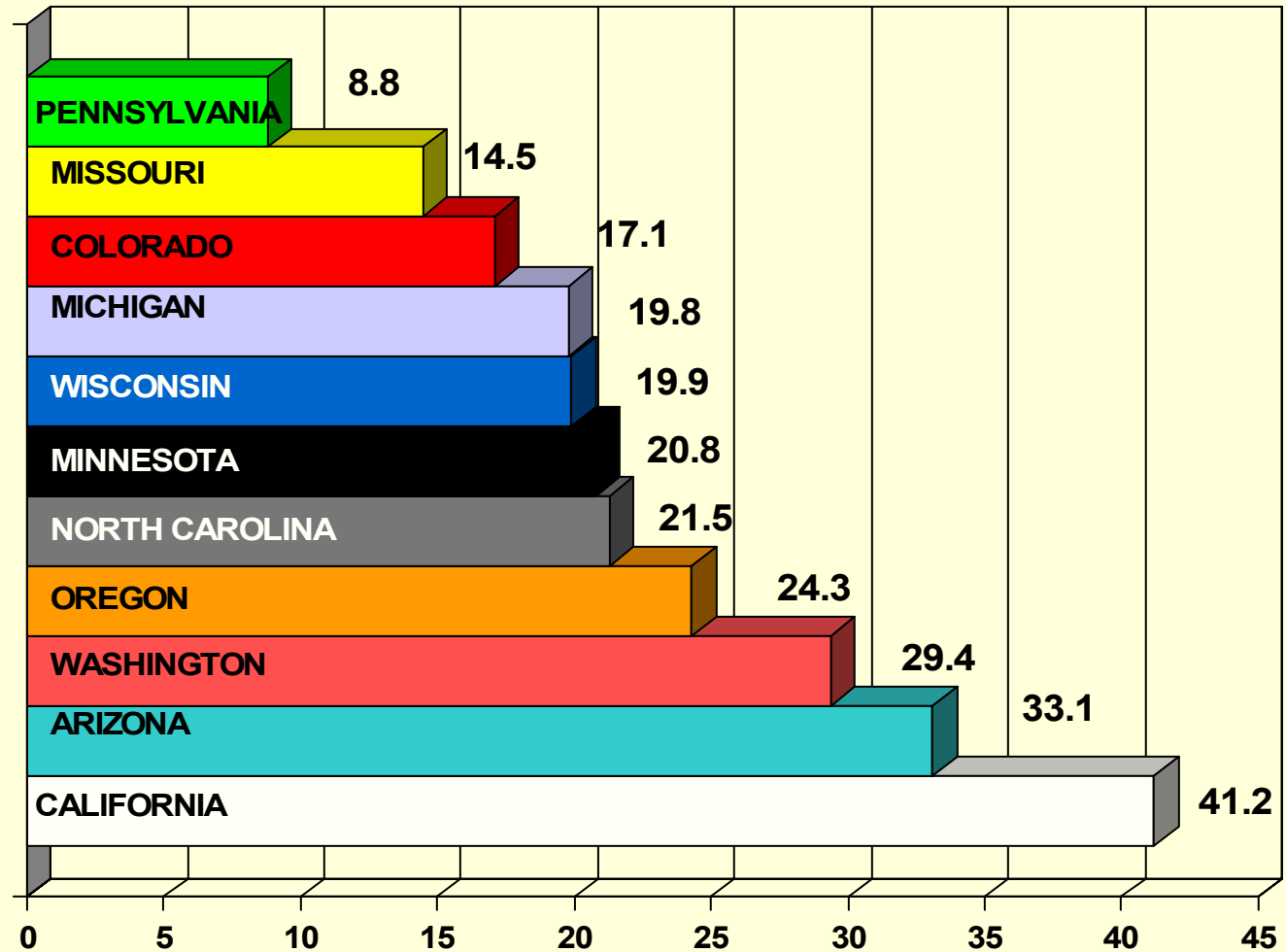
Participation in Higher Education

Enrollment Numbers in Public 4-year Colleges and Universities per 1000 Population



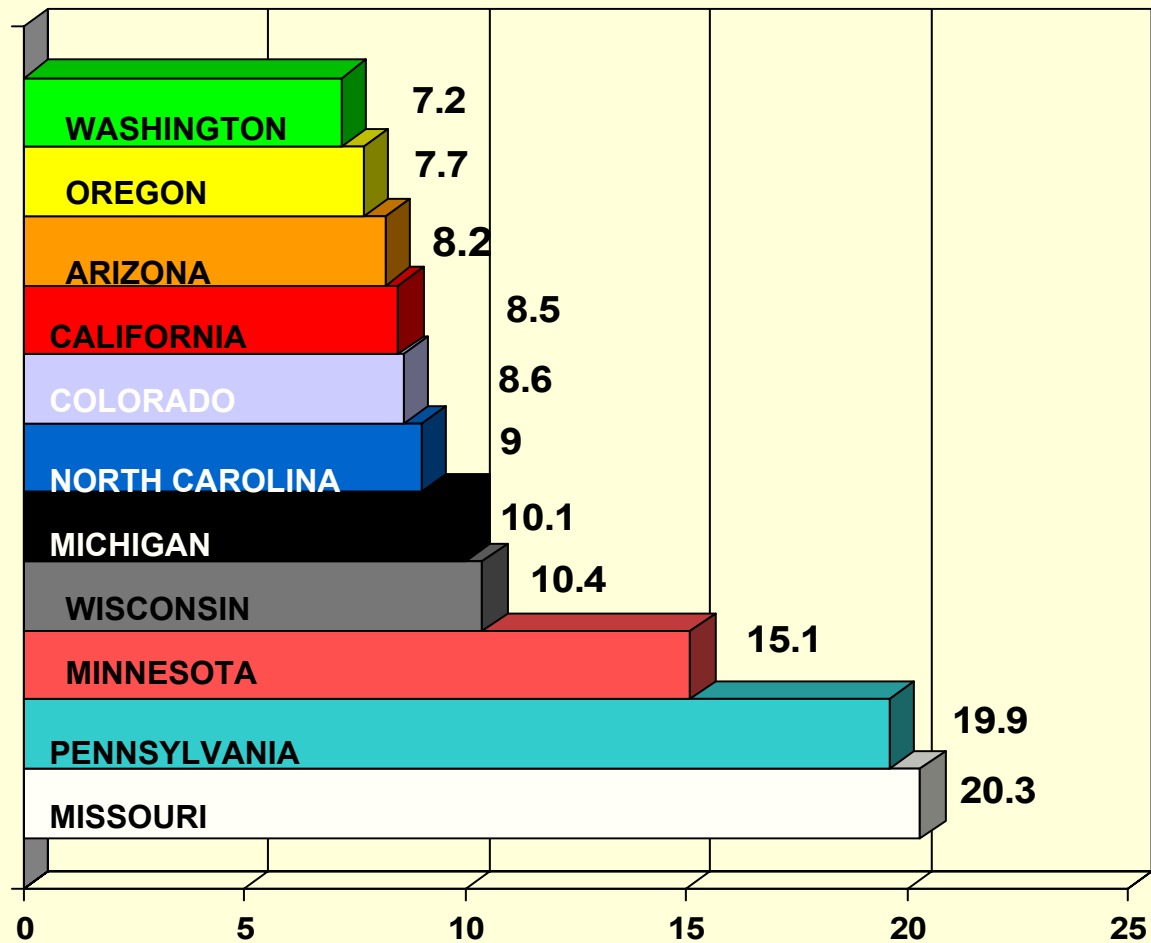
Participation in Higher Education

Enrollment Numbers in Public 2-year Colleges and Universities per 1000 Population



Participation in Higher Education

Enrollment Numbers in Private 4-Year Colleges and Universities per 1000 Population





Organization of 4-Year Public Universities in Study States

- Information from “Carnegie Classification of Higher Education”
 - [HTTP://Carnegie foundation.org/classification](http://Carnegie foundation.org/classification)
- Information also obtained from WEB pages of individual universities.
- Carnegie classifies ASU at the east campus as an engineering specialty university. For purposes of this study, it is classified as a masters university.
- Details for each state located in appendices





Organization of Study States

Conclusions

- Arizona students are partitioned into fewer public 4year institutions than are students in all other study states regardless of whether they have larger or smaller populations than does Arizona.
- Most of the study states (including Arizona) have a diversity of Carnegie typed institutions.
- The distribution of students among the types of institutions in Arizona deviates significantly from the norm.
- On average, roughly 50% of the undergraduate students who attend a public 4 year university in the study states attend a research university. In Arizona, approximately 90% of undergraduates attend a research university.



Organization of Higher Education in Study States. (Classifications for the most part from “Carnegie Classification of Higher Education”.)

		Doctoral Research Extensive	Doctoral Research Intensive	Masters I and 11	Baccalaureate
OR	3,559,596	2	1	3 (1)	0
CO	4,550,688	2	2	3 (1)	4
MN	5,059,375	1	0	7	3
WI	5,472,299	2	0	10	0
AZ	5,580,811	2 (1)	1(1)	1 (1)	0
MO	5,704,484	1	3	6	2
WA	6,131,445	2 (5)	0	3	1
NC	8,407,248	2	2	8	3
MI	10,079,985	4	3	8	0
PA	12,365,455	3	1	17	4 (20)
CA	35,484,453	8	2	19	1





Example of Most Complicated State Pennsylvania

- **State System of Higher Education**
 - 13 Masters
 - 1 Doctoral Research Intensive
- **Pennsylvania State University System**
 - 17 Baccalaureate/Associate (16 unclassified)
 - 3 Masters
 - 1 Research Extensive
- **University of Pittsburgh System**
 - 4 baccalaureate
 - 1 Research Extensive
- **Temple University System**
 - 3 Baccalaureate (unclassified)
 - 1 Research Extensive





Examples of Least Complicated States Wisconsin and Arizona

- One University in many places
(University of Wisconsin)
 - 10 Masters
 - 2 Research Extensive
- Arizona (5 Universities only)
 - 2 Research Extensive
 - 1 Research Intensive
 - 2 Masters (Actually ASU at the east campus is categorized as a specialty university)



FY 2002–03 Undergraduate Enrollment by Carnegie Type of Institution in Study States

Carnegie Classification	Number of Inst.	Total Enrollment	Percent of Total
Research Extensive (DRE)	29	701974	41.5
Research Intensive (DRI)	14	170018	10.1
Masters	81	743742	44.0
Baccalaureate	15	74175	4.4





FY 2002–03

**Percent of Total FTE Enrollment in the Study
State's Research Institutions**

Arizona	93.2%
California	41.9%
Colorado	62.6%
Michigan	69.2%
Minnesota	38.1%
Missouri	46.2%
North Carolina	51.7%
Oregon	79.0%
Pennsylvania	48.2%
Washington	62.8%
Wisconsin	43.5%






Financials and Enrollment

- All financial and enrollment information was obtained from the Common Data Set, National Center for Education Statistics (2002-2003)
- [HTTP://nces.ed.gov/ipeds/pas/.asp](http://nces.ed.gov/ipeds/pas/.asp)
- Faculty Salary Information was obtained through the Common Data Set using the Executive Peer Tool (2002-2003)
- [HTTP://nces.ed.gov/ipeds/pas/Expt.ast](http://nces.ed.gov/ipeds/pas/Expt.ast)





Financial and Enrollment Information Conclusions

- On Average Doctoral Research Extensive (DRE) universities have the largest enrollments, followed by Doctoral Research Intensive (DRI), then Master's (M) and Baccalaureate (B).
- On Average DRE universities are more expensive to operate than DRI, Masters and Baccalaureate institutions. This extends to faculty salaries.
- In the majority of study states the state investment is greater than the student investment. However, four states have crossed the 50% threshold and are closer to privatization.



ASU



NORTHERN ARIZONA UNIVERSITY



A

FY 2002–03 Average State Investment per FTE Student by Carnegie Type of Institution

Carnegie Classification	Number of Inst.	Fall 2002 Average FTE	2002–03 Average State Investment per FTE
Research Extensive (DRE)	29	28,506	\$9,637
Research Intensive (DRI)	14	13,521	\$6,083
Masters (M)	81	9,186	\$5,918
Baccalaureate (B)	15	4,070	\$6,161



FY 2002–03 Average State Investment Plus Student Investment per FTE Student by Carnegie Type of Institution

Carnegie Classification	Number of Inst.	Fall 2002 Average FTE	2002–03 Average State Investment plus Tuition & Fees per FTE
Research Extensive (DRE)	29	28,506	\$16,084
Research Intensive (DRI)	14	13,521	\$10,910
Masters	81	9,186	\$9,561
Baccalaureate	15	4,070	\$8,932



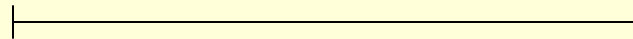


Privatization Index

- **Assumption:** The majority of the funds that fuel the instructional mission of public universities comes from state investment and student investment.
 - Simple formula to describe the state-student partnership (Privatization Index)
 - Privatization Index (PI) = *Total Student investment* divided by *Total State Investment plus Student Investment*

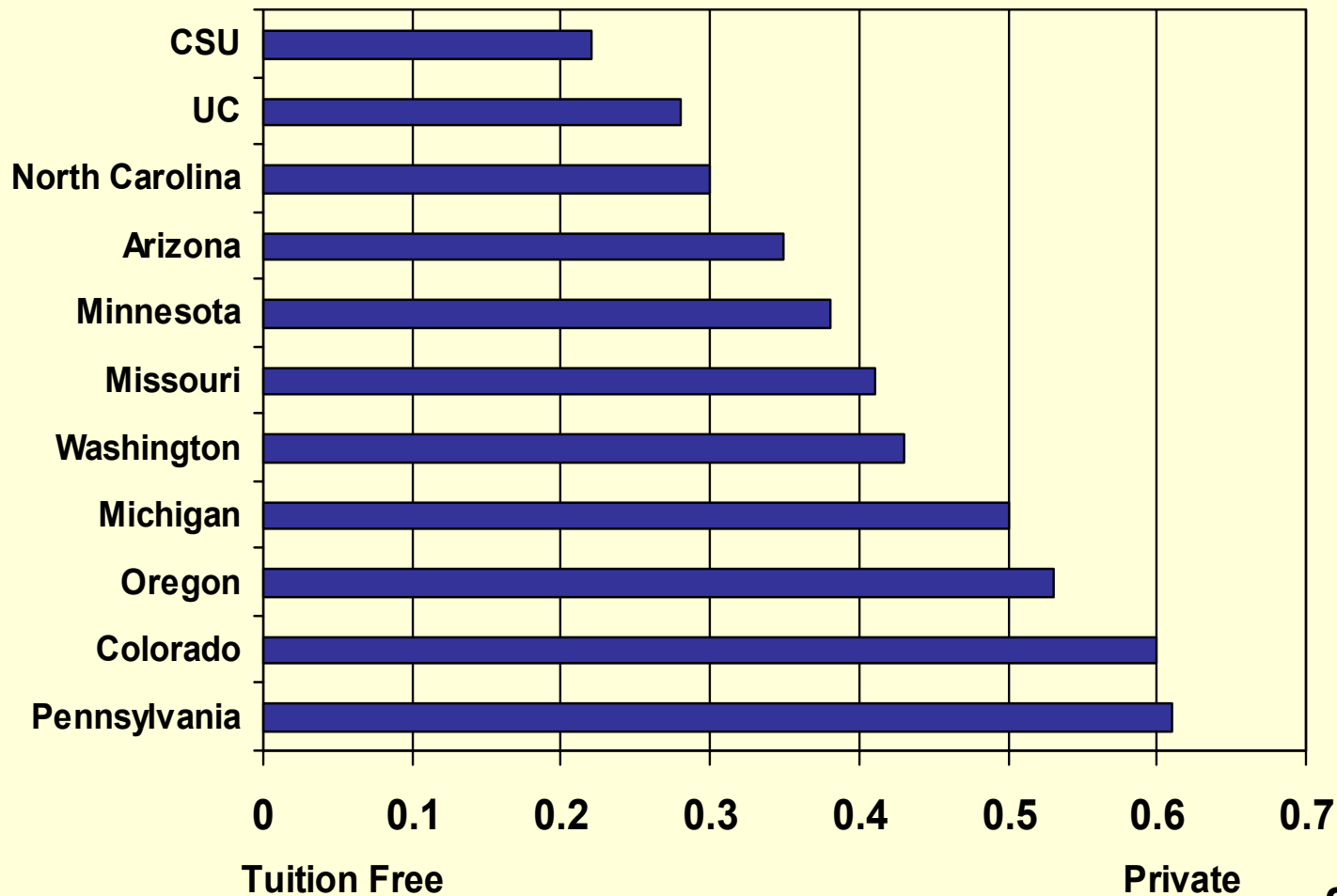
Tuition Free: PI= 0

Private: PI= 1





Privatization Index (based on IPEDS 2002-2003)





Faculty Salaries In Study States (Average)

	Professor		Associate Professor		Assistant Professor	
	Male	Female	Male	Female	Male	Female
DRE	\$97949	\$88800	\$76975	\$64957	\$60676	\$55480
DRI	\$81797	\$75751	\$62778	\$59129	\$52806	\$50621
M	\$72627	\$68976	\$58612	\$55866	\$49372	\$47515
B	\$67593	\$65467	\$55211	\$54812	\$47053	\$47796





Tuition Patterns and Differentials

- All information on tuition patterns comes from analyzing web pages of the individual universities. The information is for the 04-05 academic year.
- Details on each state can be found in the appendices. The numbers are approximate because the web pages are not always easy to interpret.




ASU



NORTHERN ARIZONA UNIVERSITY



UA



Tuition Patterns and Differentials Conclusions

- Arizona resident tuition rates remain a good buy for all universities but especially for DRE universities.
- In all of the study states, students had greater choices in tuition levels than in Arizona.
- Arizona's extensives had lower nonresident tuition rates than the vast majority of the comparator extensives.



Undergraduate Resident Tuition and Fee Patterns in Study States (L=Low, H=High)

	DRE		DRI		MI & II		Bacc.	
	L(\$)	H(\$)	L	H	L	H	L	H
AZ	4066	4086	4076	4076	4054	4054	NS	NS
CA	6570	7023	2936	2936	2516	3732	2680	2742
CO	3700	5900	3370	3386	3460	5068	2270	2811
MI	5065	¹⁰⁹⁹⁰	4332	6978	4586	6190	NS	NS
MN	8030	8030	NS	NS	4894	6306	7607	7668
MO	6662	6662	6752	7995	4260	5940	3618	4260
NC	4252	4450	3454	3519	2985	3626	2765	3392
OR	3546	3780	3174	3174	2548	3672	3528	3528
PA	8622	12784	6085	6085	5039	¹²⁴⁰²	8218	9210
WI	5835	5866	NS	NS	3210	4865	NS	NS
WA	5154	5972	NS	NS	4074	4453	3907	3907





Tuition Generalities

- **All universities in all states have a large differential between resident and nonresident tuition rates.**
- **The vast majority have differentials between undergraduate and graduate tuitions.**
- **Several have differentials between lower division and upper division**
- **Differentials among graduate programs almost always include Law and MBA but many others were also encountered.**
- **Differentials among undergraduate programs, when they occurred, usually included allied health, nursing, business and engineering**
- **Most states had significant differentials among Carnegie classifications.**





Minority Enrollments and Graduation Rates

- Information on enrollments and 1997 cohort graduation rates comes from National Center for Education 2003-04 using the Peer Executive Tool.
- Percent Minorities In the Population from U.S. CensusQuick Facts 2000.
- Information on minority graduation rates are calculated from the NCAA graduation rate data base.





Minority Enrollments and Graduation Rates

Conclusions

- American Indian, Hispanic and African American Students are underrepresented in the majority of the 4-year, public institutions, whereas Asian students tend to be overrepresented.
- Underrepresented minorities are more concentrated more in masters institutions. This is especially true for Hispanics.
- Graduation rates for underrepresented minority students have not reached parity with Asian or majority students in any of the study states.
- Doctoral Research Extensive Universities on average have higher graduation rates for all students that do other universities.
- Arizona's universities need to concentrate energies on improving graduation rates for all students.



**Minority Enrollment as a Percent of Total Enrollment in
Baccalaureate Universities (numbers in parentheses represent the
percent of the state's population represented by the minority group.
(NS indicates none in the state).**

	American Indian	Asian, Pacific Islander	African American	Hispanic
AZ (NS)	-	-	-	-
CA	0.9 (1.0)	5.9 (11.2)	3.9 (6.7)	26.5 (32.4)
CO	5.1 (1.0)	1.9 (2.3)	2.3 (3.8)	7.7 (17.1)
MI (NS)	-	-	-	-
MN	2.7 (1.1)	1.6 (2.9)	1.8 (3.5)	1.0 (2.9)
MO	1.7 (0.4)	1.0 (0.1)	6.5 (11.2)	1.9 (2.1)
NC	0.2 (1.2)	0.9 (1.4)	53.8 (21.6)	0.9 (4.7)
OR (NS)	-	-	-	-
PA	0.3 (0.1)	1.1 (1.8)	1.7 (10.0)	0.5 (3.2)
WA	4.6 (1.6)	4.2 (5.5)	4.5 (3.2)	4.2 (7.5)
WI (NS)	-	-	-	-



Minority Enrollment as a Percent of Total Enrollment in **Masters Universities (numbers in parentheses represent the % of the states population represented by the minority group)**

	American Indian	Asian, Pacific Islander	African American	Hispanic
AZ	2.2 (5.0)	3.7 (1.9)	4.8 (3.1)	16.3 (25.3)
CA	0.9 (1.0)	14.5 (11.2)	5.9 (6.7)	20.0 (32.4)
CO	1.3 (1.0)	2.4 (2.3)	3.4 (3.8)	14.7 (17.1)
MI	1.8 (0.6)	2.1 (1.8)	6.7 (14.2)	1.8 (3.3)
MN	1.0 (1.1)	1.9 (2.9)	1.8 (3.5)	0.8 (2.9)
MO	0.6 (0.4)	1.1 (0.1)	8.9 (11.2)	1.4 (2.1)
NC	3.2 (1.2)	1.6 (1.4)	36.6 (21.6)	1.7 (4.7)
OR	1.6 (1.3)	3.5 (3.2)	1.3 (1.6)	4.1 (8.0)
PA	0.2 (0.1)	1.6 (1.8)	14.9 (10.0)	1.4 (3.2)
WA	2.1 (1.6)	4.9 (5.5)	1.9 (3.2)	4.3 (7.5)
WI	0.8 (0.9)	2.1 (1.7)	1.9 (5.7)	1.6 (3.6)



Minority Enrollment as a Percent of Total Enrollment in **Doctoral Research Intensive Universities (numbers in parentheses represent the % of the states population represented by the minority group)**

	American Indian	Asian, Pacific Islander	African American	Hispanic
AZ	6.2 (5.0)	1.8 (1.9)	2.2 (3.1)	10.7 (25.3)
CA	0.7 (1.0)	24.9 (11.2)	3.5 (6.7)	12.5 (32.4)
CO	0.9 (1.0)	4.9 (2.3)	2.5 (3.8)	7.5 (17.1)
MI	0.6 (0.6)	2.1 (1.8)	7.3 (14.2)	1.6 (3.3)
MN N/S	-	-	-	-
MO	0.6 (0.4)	2.5 (0.1)	5.1 (3.5)	1.5 (2.1)
NC	0.5 (1.2)	2.4 (1.4)	16.0 (21.6)	1.6 (4.7)
OR	1.1 (1.3)	8.8 (3.2)	2.9 (1.6)	3.7 (8.0)
PA	0.2 (0.1)	0.9 (1.8)	6.0 (10.0)	0.8 (3.2)
WA N/S	-	-	-	-
WI N/S	-	-	-	-



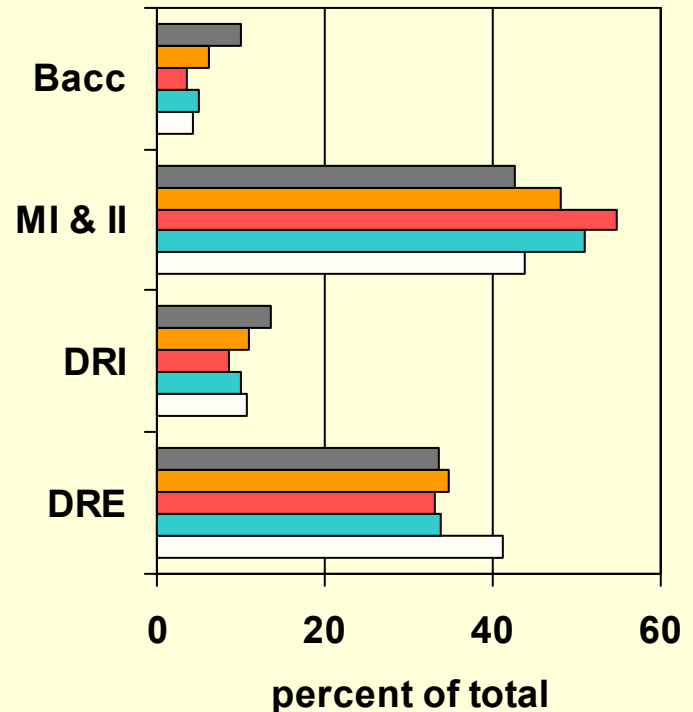
Minority Enrollment as a Percent of Total Enrollment in **Doctoral Research Extensive Universities (numbers in parentheses represent the % of the states population represented by the minority group**

	American Indian	Asian, Pacific Islander	African American	Hispanic
AZ	2.1 (5.0)	5.2 (1.9)	3.1 (3.1)	12.2 (25.3)
CA	0.6 (1.0)	30.7 (11.2)	2.9 (6.7)	12.7 (32.4)
CO	1.0 (1.0)	4.0 (2.3)	1.7 (3.8)	5.6 (17.1)
MI	0.5 (0.6)	6.1 (1.8)	11.8 (14.2)	2.7 (3.3)
MN	0.5 (1.1)	7.5 (2.9)	3.6 (3.5)	1.8 (2.9)
MO	0.6 (0.4)	2.5 (0.1)	5.1 (11.2)	1.5 (2.1)
NC	0.7 (1.2)	5.6 (1.4)	10.0 (21.6)	2.1 (4.7)
OR	1.2 (1.3)	6.8 (3.2)	1.5 (1.6)	3.1 (8.0)
PA	0.2 (0.1)	5.8 (1.8)	10.0 (10.4)	2.5 (3.2)
WA	1.1 (1.6)	12.8 (5.5)	2.4 (3.2)	3.5 (7.5)
WI	0.7 (0.9)	4.3 (1.7)	4.8 (5.7)	3.1 (3.6)



Enrollment Patterns of Underrepresented Minorities in Public 4-Year Colleges and Universities in the Study States

- Total enrollment of American Indians in public 4-year colleges and universities in study states was 15,916
- Total Enrollment of African Americans in in study states was 114,473
- Total enrollment of Hispanic non-white Americans in study states was 127,906
- Total enrollment of underrepresented minorities in in study states was 258200
- Total enrollment of all students in public 4-year, colleges and universities in study states was 1698909.



State 6-year Graduation Rates

(The state graduation rate is calculated from four years of data from the NCAA graduation rate database, 1997,1996,1995,1994 cohorts combined. Numbers are rounded.)

	American Indian/ Alaskan Native	Asian/Pacific Islander	African American	Hispanic	White
AZ	26%	56%	39%	43%	54%
CA	49%	67%	37%	48%	65%
CO	30%	48%	31%	36%	51%
MI	62%	74%	62%	53%	74%
MN	25%	41%	30%	35%	45%
MO	34%	52%	33%	41%	49%
NC	41%	62%	49%	52%	60%
OR	43%	53%	46%	40%	43%
PA	38%	53%	40%	49%	60%
WA	47%	65%	48%	55%	63%
WI	19%	52%	26%	39%	56%





Six-year, First time, Full Time Freshman Graduation Rate (1997Cohort) by Carnegie Classification (NS=None in State NA=Information not Available)

State	Total	DRE	DRI	Masters	Bacc
AZ	52.8	53.4	51.8	N/A	N/S
CA	52.1	77.2	44.2	43.2	30.3
CO	44.4	65.0	43.2	34.5	27.6
MI	48.8	60.4	52.0	41.8	N/S
MN	41.3	54.4	N/S	42.1	42.0
MO	49.0	66.5	46.6	49.6	31.7
NC	52.0	72.9	52.1	48.4	49.9
OR	41.4	60.2	33.2	31.1	N/S
PA	50.0	66.8	50.8	51.2	51.7
WA	57.1	65.7	N/S	53.0	52.2
WI	49.0	57.4	N/S	47.9	N/S

