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### **ABSTRACT**

This report presents tables, charts and analysis on projection of demand for Colorado postsecondary education from 1993 to 2002 for use as a baseline in policy making discussion. The projections are called "baseline" because they are based on an "All Things Remaining the Same" assumption, assuming that current enrollment patterns as measured by the last 6 years will apply in the future. The data and analysis cover the following topics: (1) headcount by institution type; (2) in-state graduate and undergraduate students; (3) out-of-state graduate and undergraduate students; (4) projections of first-time students; (5) population projections; (6) enrollment levels (full- or part-time); and (7) percentages of females. A section on financial implications of the projections covers revenue estimates, changes from 1986-87 to 1992-93, 1993-94 projections and 2001-02 projections. A final section looks at projection of degrees granted by level. An executive summary notes that overall, public, in-state headcount enrollment is likely to increase by 22.2 percent by 2001 and that to maintain a state share of cost per student of 66 percent, a \$100 million increase in state funding will be needed. In addition, overall undergraduate enrollment could grow at a slightly higher rate than graduate enrollment. (JB)



**Student Demand and Financial Projections** for Colorado Higher Education Fiscal Years 1993 through 2002

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ERIC<sub>RE EDUCATIONAL</sub> RESOURCES RMATION CENTER (ERIC)."

# Student Demand and Financial Projections for Colorado Higher Education Fiscal Years 1993 through 2002

## **EXECUTIVE SUMMARY**

This document presents a CCHE staff projection of demand for Colorado postsecondary education over the next ten years and of the financial implications of that demand. It is based on an "All Things Remaining the Same" assumption, assuming that current enrollment patterns (as measured by the enrollment history of the last six years) will apply in the future. As such, these projections should be considered a <u>baseline</u> for discussion. Policy changes by the Commission or the institutions, state and national economic conditions, facility limitations, and social conditions can all lead to changes in college going behavior, causing actual enrollments to vary to some degree, either up or down, from these projections.

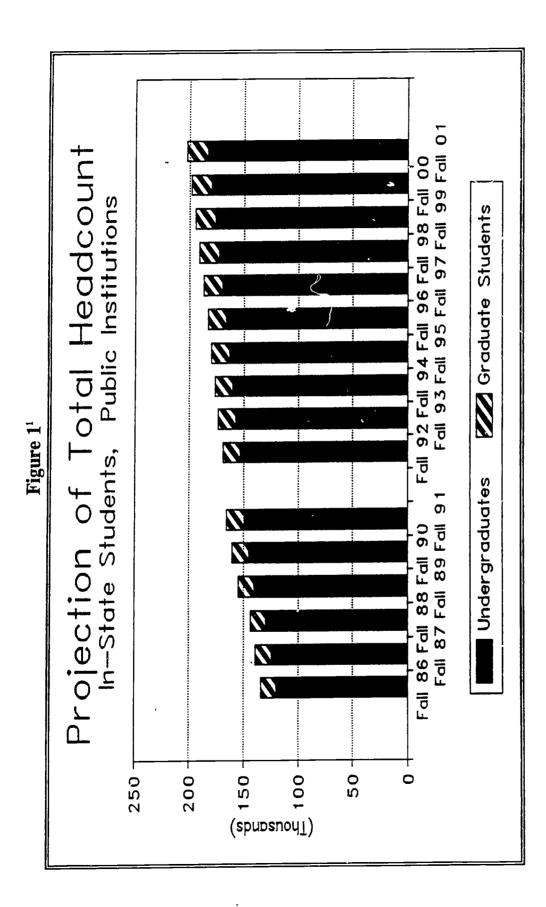
Overall, public, in-state headcount enrollment is likely to:

- o Increase by 22.2% between fall 1991 and fall 2001, by about 37,000 students, from 166,000 to over 202,000.
- This growth would continue the systemwide increase that has occurred between fall 1986 and fall 1991, an increase of 32,000 students.
- Overall undergraduate enrollment could grow at a slightly higher rate than graduate enrollment, with a possible increase of 22.5%, from about 150,000 in fall 1991 to 183,000 in fall 2001.
- o Graduate enrollment, on the other hand, may grow by 19.4%, from 16,000 to 19,200.
- To maintain a state share of cost per student of 66%, a \$100 million increase in state funding would be needed.

Figure 1 plots the projections of in-state headcount for both graduate and undergraduate students. Figure 2 plots percent changes for total headcount enrollment relative to fall 1991. In both graphs, six years of historical data are provided, followed by ten years of projections. The gap in the graphs is provided to separate the historical data from the projections.



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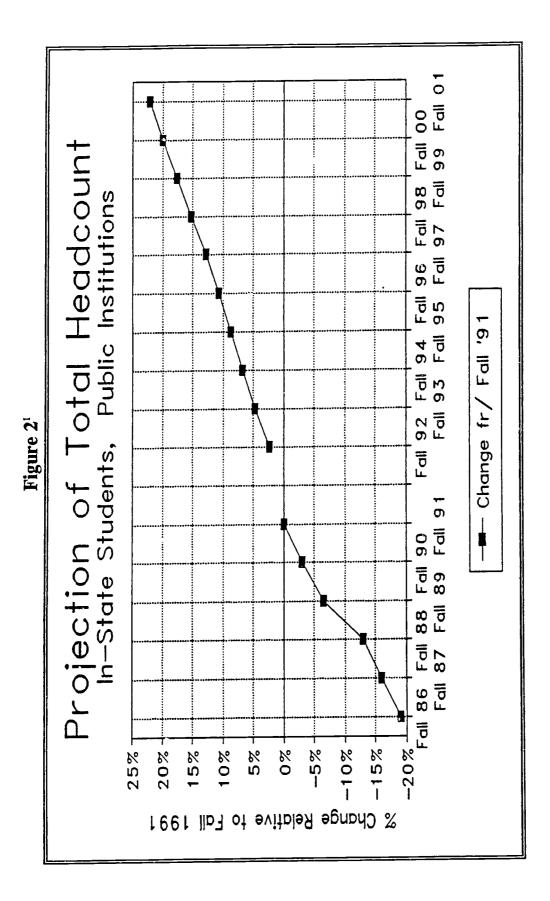


1SOURCE: CCHE projection based on an "All Things Remaining The Same" assumption of existing participation rates and enrollment patterns.

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'SOURCE: CCHE projection based on an "All Things Remaining The Same" assumption of existing participation rates and enrollment patterns.



## PROJECTIONS OF PUBLIC HEADCOUNT BY INSTITUTIONAL TYPE

The projections were done by institutional type and region of the state. The six institutional sectors for the public institutions are:

- Rural<sup>1</sup> Community Colleges (LCC, MCC, OJC, and TSJC);
- o Urban Community Colleges (ACC, CCA, CCD, FRCC, RRCC, PPCC, and PCC);
- Local District Colleges (Aims, CMC, CNCC, and NJC);
- Research Universities<sup>2</sup> (CSM, CSU, and UCB);
- o Rural Universities and Colleges (ASC, FLC, Mesa, and WSC); and
- o Urban Universities and Colleges (Metro, UCD, UCCS, USC, and UNC).

## Undergraduate, In-State Students

Table 1 and Figure 3 present the projections for undergraduate, in-state students by sector and for the state total. The data for fall 1986 through fall 1991 is historical, based on SURDS enrollment reports submitted by the institutions. The percent changes shown in the bottom section of the table are all computed relative to fall 1991 enrollment. For example, the -23.1% value for rural community colleges in fall 1986 indicates that there were 23.1% fewer students in fall 1986 than in fall 1991<sup>3</sup>; the forecast is for an additional increase of 12.0% by fall 2001.

Some summary conclusions from Table 1 and Figure 3 are:

- o there were about 20% fewer undergraduate, in-state students in fall 1986 than in fall 1991, a growth of almost 30,000 additional students;
- the largest increases between 1986 and 1991 occurred at the community colleges -- in fall 1991 there were about 16,000 more students at urban community colleges, 6,000 more at the local district colleges, and 900 more at the rural community colleges;

<sup>&</sup>lt;sup>3</sup>This percentage <u>does not</u> reflect the percent increase between fall 1986 and fall 1991. That percentage increase for rural community colleges is 30%.



<sup>&</sup>lt;sup>1</sup>Urban is defined as the ten front range counties: Larimer, Weld, Boulder, Adams, Jefferson, Denver, Arapahoe, Douglas, El Paso, and Pueblo. All other counties are grouped as Rural.

<sup>&</sup>lt;sup>2</sup>The University of Colorado - Health Sciences Center and Colorado State University Professional Veterinary Medicine Program are excluded from this analysis.

Table 1

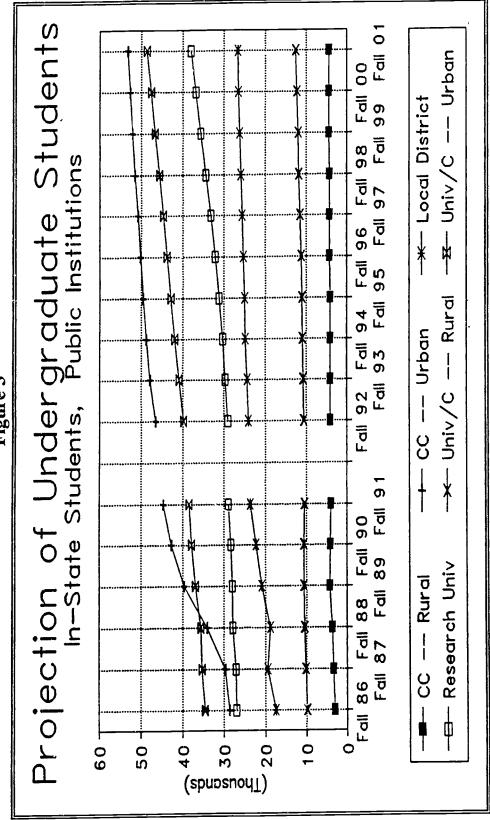
	Historical Enrollment and Projections for Undergraduate, In-State Headcount Colorado Public Institutions									
Fall	ComCol	ComCol	Local	Rsrch	Univ/C	Univ/C	State			
Terms	Rural	Urban	Dist.	Univ	Rural	Urban	Total			
Fall 1986	3,002	28,603	17,404	26,833	9,727	34,410	119,979			
Fall 1987	3,271	29,649	19,270	27,099	10,076	35,180	124,545			
Fall 1988	3,497	34,088	18,669	27,774	10,418	35,538	129,984			
Fall 1989	4,190	39,610	20,787	27,990	10,556	36,897	140,030			
Fall 1990	4,068	42,705	22,157	28,257	10,507	37,761	145,455			
Fall 1991	3,902	44,563	23,489	28,796	10,420	38,445	149,615			
Fall 1992 Fall 1993 Fall 1994 Fall 1995 Fall 1996 Fall 1997 Fall 1998 Fall 1999 Fall 2000 Fall 2001	3,943	46,421	23,984	29,031	10,523	39,726	153,627			
	3,993	47,732	24,384	29,627	10,676	40,904	157,316			
	4,032	48,678	24,699	30,276	10,763	41,859	160,307			
	4,080	49,437	24,992	31,110	10,953	42,778	163,351			
	4,117	50,099	25,253	32,027	11,119	43,643	166,257			
	4,169	50,735	25,533	33,097	11,382	44,555	169,470			
	4,230	51,386	25,823	34,309	11,677	45,547	172,973			
	4,282	52,038	26,106	35,545	11,961	46,556	176,488			
	4,335	52,680	26,390	36,796	12,266	47,567	180,033			
	4,369	53,293	26,647	37,953	12,498	48,508	183,268			

	Percent C	hanges in	Enrollme	nt Relati	ve to Fal	1 1991	
Fall Terms	ComCol Rural	ComCol Urban	Local Dist.	Rsrch Univ	Univ/C Rural	Univ/C Urban	State Total
Fall 1986	-23.1%	-35.8%	-25.9%	-6.8%	-6.7%	-10.5%	-19.8%
Fall 1987	-16.2%	-33.5%	-18.0%	-5.9%	-3.3%	-8.5%	-16.8%
Fall 1988	-10.4%	-23.5%	-20.5%	-3.5%	0%	-7.6%	-13.1%
Fall 1989	7.4%	-11.1%	-11.5%	-2.8%	1.3%	-4.0%	-6.4%
Fall 1990	4.3%	-4.2%	-5.7%	-1.9%	.8\$	-1.8%	-2.8%
Fall 1991	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0
Fall 1992	1.0%	4.2%	2.1%	.8%	1.0%	3.3%	2.7
Fall 1993	2.3%	7.1%	3.8%	2.9%	2.5%	6.4%	5.1
Fall 1994	3.3%	9.2%	5.2%	5.1%	3.3%	8.9%	7.1
Fall 1995	4.6%	10.9%	6.48	8.0%	5.1%	11.3%	9.29

Fall 1993	2.3%	7.1%	3.8%	2.9%	2.5%	6.4%	5.1%
Fall 1994	3.3%	9.2%	5.2%	5.1%	3.3%	8.9%	7.1%
Fall 1995	4.6%	10.9%	6.48	8.0%	5.1%	11.3%	9.2%
Fall 1996	5.5%	12.4%	7.5%	11.2%	6.7%	13.5%	11.1%
Fall 1997	6.8%	13.9%	8.7%	14.9%	9.2%	15.9%	13.3%
Fall 1998	8.4%	15.3%	9.9%	19.1%	12.1%	18.5%	15.6%
Fall 1999	9.7%	16.8%	11.1%	23.4%	14.8%	21.1%	18.0%
Fall 2000	11.1%	18.2%	12.3%	27.8%	17.7%	23.7%	20.3%
Fall 2001	12.0%	19.6%	13.4%	31.8%	19.9%	26.2%	22.5%

SOURCE: CCHE projection based on an "All Things Remaining The Same" assumption of existing participation rates and enrollment patterns.





<sup>1</sup>SOURCE: CCHE projection based on an "All Things Remaining The Same" assumption of existing participation rates and enrollment patterns.





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- o the four-year sectors also showed an increase between fall 1986 and fall 1991, but by smaller relative amounts;
- o an increased demand of 30,000 in undergraduate headcount student enrollment is forecast by 2001;
- while the greatest growth over the last six years was at the community colleges, the projections are for greater growth in the future at the four-year sectors<sup>1</sup>;
- the greatest increase in enrollment demand is at the research universities, with a forecast increase of almost 32%, about 9,000 more students;
- the universities and colleges in the urban areas are also projected to increase by about 9,000 students, or about 26%, in rural areas the projection is for an increase of about 2,000 students (20%);
- the community college sectors are also projected to increase by at least 12%, and by almost 20% in the urban areas.

## Graduate, In-State Students

Projections of graduate in-state enrollment are provided in Table 2 and graphed in Figure 4. Some points to notice in the table are:

- o in-state graduate headcount enrollment increased over the last six years, up almost 2,000 students (the enrollment in fall 1986 was 12% less than in fall 1991);
- all sectors did not increase, enrollment of graduate, in-state students at the universities and colleges in the rural areas declined by nearly 79% (this decline was undoubtedly due to the elimination of graduate programs at Western State College during that time period);
- the greatest growth was at the research universities, up 1,500 in-state, graduate students;
- the projections forecast an increase of over 3,000 graduate students over the next ten years<sup>2</sup>, with most of the increase at the urban universities and colleges and the research universities.

<sup>&</sup>lt;sup>2</sup>The projection of graduate enrollment assumes that institutions will strive to maintain a fixed percentage of total enrollment at the graduate level.



<sup>&</sup>lt;sup>1</sup>This result is because demographic projections forecast a large increase in high school graduates, who mostly start college at four-year institutions, and little growth in the adult population that provides the bulk of the enrollment at community colleges. Later sections of this paper present the high school graduate and population projections.

Table 2

Historical Enrollment and Erojections for Graduate Student, In-State Headcount Colorado Public Institutions									
Fall Terms	ComCol Rural	ComCol Urban	Local Dist.	Rsrch Univ	Univ/C Rural	Univ/C Urban	State Total		
Fall 1986 Fall 1987 Fall 1988 Fall 1989 Fall 1990 Fall 1991				5,481 5,483 5,510 5,908 6,161 7,022	797 809 696 576 373 446	7,809 8,221 7,910 8,379 8,638 8,612	14,087 14,513 14,116 14,863 15,172 16,080		
Fall 1992 Fall 1993 Fall 1994 Fall 1995 Fall 1996 Fall 1997 Fall 1998 Fall 1999 Fall 2000 Fall 2001				6,541 6,595 6,716 6,848 7,017 7,203 7,420 7,666 7,918 8,173	551 556 561 565 572 579 589 600 611 622	8,835 9,069 9,271 9,436 9,594 9,742 9,898 10,066 10,237 10,408	15,927 16,219 16,549 16,848 17,183 17,524 17,907 18,332 18,765 19,202		

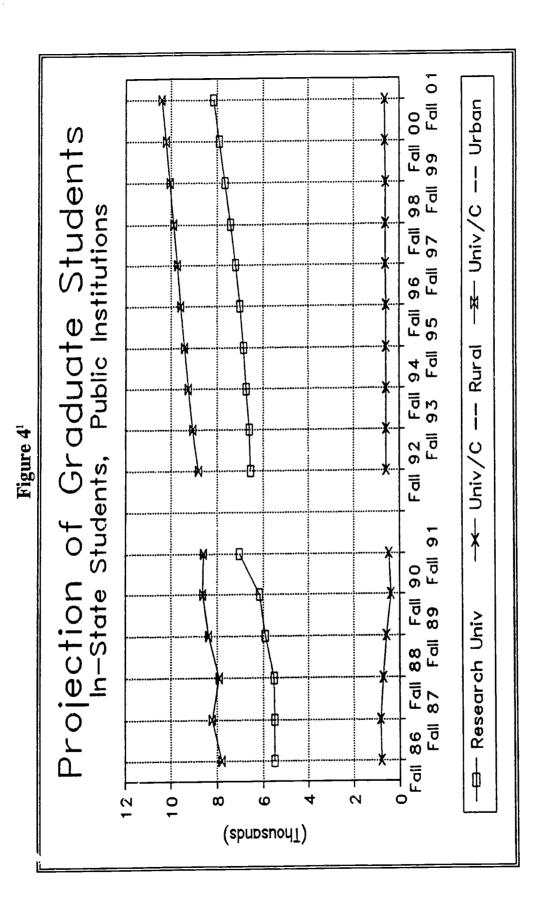
	Percent	Changes in	Enroll	ent Relati	ve to Fal	1 1991	
Fall Terms	ComCol Rural	ComCol Urban	Local Dist.	Rsrch Univ	Univ/C Rural	Univ/C Urban	State Total
Fall 1986 Fall 1987 Fall 1988 Fall 1989 Fall 1990 Fall 1991				-21.9% -21.9% -21.5% -15.9% -12.3% 0.0%	78.7% 81.4% 56.1% 29.1% -16.4% 0.0%	-9.3% -4.5% -8.2% -2.7% .3% 0.0%	-12.4% -9.7% -12.2% -7.6% -5.6% 0.0%

Fall 1992	-6.8%	23.5%	2.6%	-1.0%
Fall 1993	-6.1%	24.6%	5.3∜	.9%
Fall 1994	-4.4%	25.9%	7.7%	2.9%
Fall 1995	-2.5%	26.7%	9.6%	4.8%
Fall 1996	1%	28.3%	11.4%	6.9%
Fall 1997	2.6%	29.8%	13.1%	9.0%
Fall 1998	5.7%	32.0%	14.9%	11.4%
	9.2%	34.5%	16.9%	14.0%
Fall 1999	12.8%	36.9%	18.9%	16.7%
Fall 2000	16.4%	39.4%	20.9%	19.4%
Fall 2001	10.21	37.44		

SOURCE: CCHE projection based on an "All Things Remaining The Same" assumption of existing participation rates and enrollment patterns.







<sup>1</sup>SOURCE: CCHE projection based on an "All Things Remaining The Same" assumption of existing participation rates and enrollment patterns.

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## Undergraduate, Out-of-State Students

Table 3 and Figure 5 provide projections of out-of-state undergraduate students that is similar in format to the in-state projections provided in Table 1 and Figure 3. The table shows that:

- out-of-state, undergraduate headcount enrollment increased at an even faster rate than instate enrollment, with 30% fewer in fall 1986 than in fall 1991, compared to 22.5% fewer in-state, undergraduate students;
- this increase represents about 6,300 more students, and occurred at all sectors except the rural community colleges, where the number of out-of-state students is fairly small (374 in fall 1991), and where the enrollment actually decreased by 179 students;
- the largest relative increases were at the urban community colleges and the local district colleges, where the out-of-state enrollment went from 1,454 to 3,906 and from 692 to 1,432, respectively;
- the majority of out-of-state students, about 11,000 out of 21,000 in fall 1991, are enrolled at the research universities;
- the forecast is for an increase of 5,500 students, about 26%, by fall 2001<sup>1</sup>;
- o most of the projected increase is at the research universities; with a projected increase of over 3.500 out-of-state students forecast by fall 2001.

## Graduate, Out-of-State Students

Finally, Table 4 and Figure 6 provide the projections for graduate, out-of-state headcount enrollment. The tables show that:

- out-of-state graduate enrollment increased by about 800 students between fall 1986 and fall 1991;
- the forecast is for an increase of about 860 more out-of-state graduate students, about 24%, by fall 2001.

<sup>&</sup>lt;sup>1</sup>Out-of-state enrollment has been very volatile in Colorado over the last decade. The recent increase follows a six year period where the out-of-state enrollment was decreasing greatly. The model assumed that out-of-state enrollment would increase in proportion to the percentage of total enrollment in fall 1990 and fall 1991.



Table 3

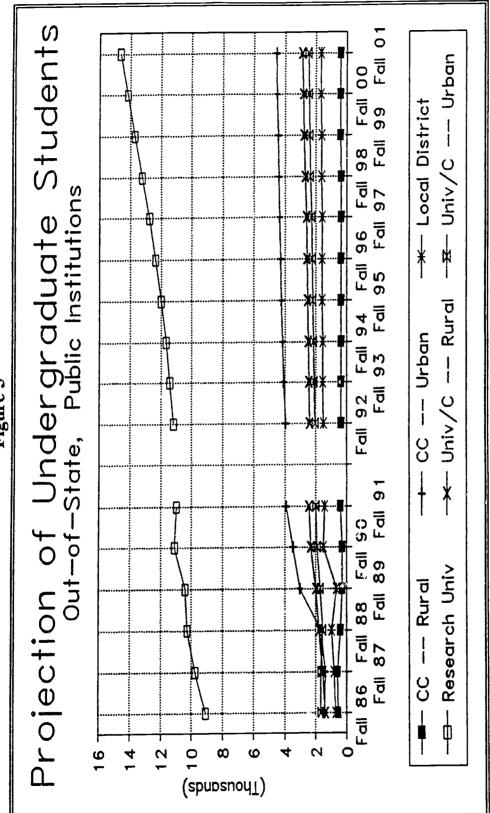
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	Colorado Public Institutions								
Fall	ComCol	ComCol	Local	Rsrch	Univ/C	Univ/C	State		
Terms	Rural	Urban	Dist.	Univ	Rural	Urban	Total		
Fall 1986	553	1,454	692	9,064	1,385	1,683	14,831		
Fall 1987	604	1,391	841	9,764	1,569	1,684	15,853		
Fall 1988	375	1,688	983	10,271	1,790	1,548	16,655		
Fall 1989	260	3,026	653	10,401	1,985	1,710	18,035		
Fall 1990	266	3,439	1,502	11,111	2,305	1,921	20,544		
Fall 1991	374	3,906	1,432	10,986	2,457	1,991	21,146		
Fall 1992	338	3,959	1,517	11,189	2,424	2,045	21,471		
Fall 1993	342	4,070	1,542	11,419	2,459	2,106	21,938		
Fall 1994	346	4,151	1,562	11,669	2,479	2,155	22,361		
Fall 1995	350	4,216	1,580	11,990	2,523	2,202	22,861		
Fall 1996	353	4,272	1,597	12,343	2,561	2,247	23,373		
Fall 1997	357	4,327	1,615	12,756	2,621	2,294	23,970		
Fall 1998	363	4,382	1,633	13,223	2,690	2,345	24,635		
Fall 1999	367	4,438	1,651	13,699	2,755	2,397	25,307		
Fall 2000	371	4,492	1,669	14,182	2,825	2,449	25,988		
Fall 2001	374	4,545	1,685	14,628	2,879	2,497	26,608		

Percent Changes in Enrollment Relative to Fall 1991									
Fall Terms	ComCol Rural	ComCol Urban	Local Dist.	Rsrch Univ	Univ/C Rural	Univ/C Urban	State Total		
Fall 1986 Fall 1987 Fall 1988 Fall 1989 Fall 1990 Fall 1991	47.9% 61.5% .3% -30.5% -28.9% 0.0%	-62.8% -64.4% -56.8% -22.5% -12.0% 0.0%	-51.7% -41.3% -31.4% -54.4% 4.9%	-17.5% -11.1% -6.5% -5.3% 1.1%	-43.6% -36.1% -27.1% -19.2% -6.2% 0.0%	-15.5% -15.4% -22.3% -14.1% -3.5% 0.0%	-29.9% -25.0% -21.2% -14.7% -2.8% 0.0%		

Fall 1992	-9.7%	1.3%	5.9*	1.8%	-1.4%	2.7%	1.5%
Fall 1993	-8.5%	4.2%	7.7%	3.9%	.1%	5.8∜	3.7%
Fall 1994	-7.6%	6.3%	9.1%	6.2%	.9₩	8.2%	5.7∜
Fall 1995	-6.5%	7.9%	10.4%	9.1%	2.7%	10.6%	8.1%
Fall 1996	-5.7%	9.4%	11.5%	12.4%	4.2%	12.9%	10.5%
Fall 1997	-4.5%	10.8%	12.8%	16.1%	6.7%	15.2%	13.4%
Fall 1998	-3.1%	12.2%	14.0%	20.4%	9.5%	17.8%	16.5∜
Fall 1999	-1.9%	13.6%	15.3%	24.7%	12.1%	20.4%	19.7%
Fall 2000	7%	15.0%	16.5%	29.1%	15.0%	23.0%	22.9%
Fall 2001	.1%	16.4%	17.7%	33.1%	17.2%	25.4%	25.8%
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OURCE: CCHE projection based on an "All Things Remaining The Same" assumption of existing participation rates and enrollment patterns.





SOURCE: CCHE projection based on an "All Things Remaining The Same" assumption of existing participation rates and enrollment patterns.

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Table 4

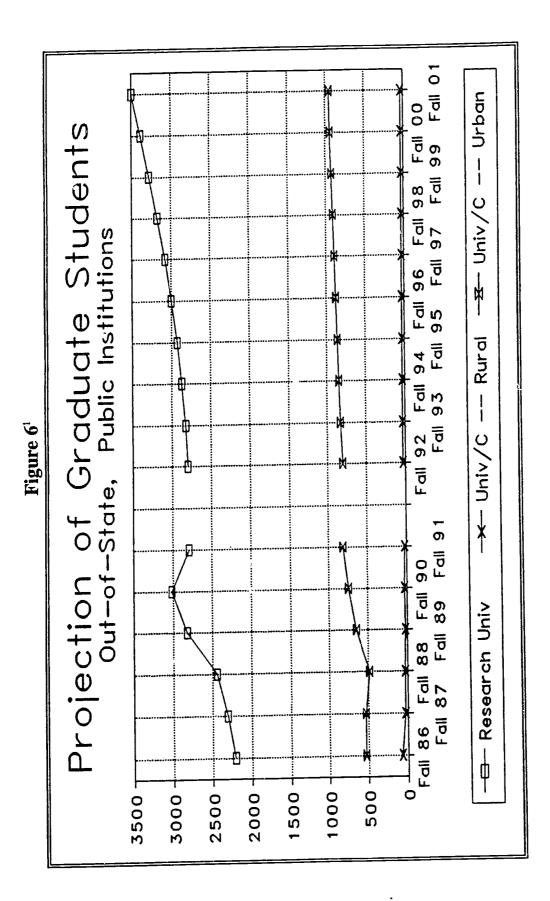
	Historical Enrollment and Projections for Graduate Student, Out-of-State Headcount Colorado Public Institutions									
Fall Terms	ComCol Rural	ComCol Urban	Local Dist.	Rsrch Univ	Univ/C Rural	Univ/C Urban	State Total			
Fall 1986 Fall 1987 Fall 1988 Fall 1989 Fall 1990 Fall 1991				2,211 2,305 2,447 2,822 3,011 2,787	68 26 27 20 26 18	531 533 485 652 747 813	2,810 2,864 2,959 3,494 3,784 3,618			
Fall 1992 Fall 1993 Fall 1994 Fall 1995 Fall 1996 Fall 1997 Fall 1998 Fall 1999 Fall 2000				2,796 2,819 2,871 2,927 3,000 3,079 3,172 3,277 3,385 3,494	28 28 28 29 29 30 30 31	811 832 851 866 880 894 908 924 939 955	3,822 3,909 4,002 4,110 4,231			

	Percent	Changes in	Enroll	ent Relati	ve to Fal	1 1991	
Fall Terms	ComCol Rural	ComCol Urban	Local Dist.	Rsrch Univ	Univ/C Rural	Univ/C Urban	State Total
Fall 1986				-20.7%	277.8%	-34.7%	-22.3%
Fall 1987				-17.3%	44.4%	-34.4%	-20.8%
Fall 1988				-12.2%	50.0%	-40.3%	-18.2%
Fall 1989				1.3%	11.1%	-19.8%	-3.4%
Fall 1990				8.0%	44.4%	-8.1%	4.6%
Fall 1991				0.0%	0.0%	0.0%	0.0%

Fall 1992	.3%	53.5%	3%	.5₩
Fall 1993	1.2%	54.8%	2.4%	1.7%
Fall 1994	3.0%	56.4%	4.6%	3.6%
Fall 1995	5.0%	57.4%	6.5%	5.6%
Fall 1996	7.6%	59.4%	8.3%	8.0%
Fall 1997	10.5%	61.2%	10.0%	10.6%
Fall 1998	13.8%	64.0%	11.7%	13.6%
Fall 1999	17.6%	67.1%	13.6%	16.9%
Fall 2000	21.5%	70.1%	15.5%	20.4%
Fall 2001	25.4%	73.2* 	17.5% —————	

SOURCE: CCHE projection based on an "All Things Remaining The Same" assumption of existing participation rates and enrollment patterns.

October 7, 1992



'SOURCE: CCHE projection based on an "All Things Remaining The Same" assumption of existing participation rates and enrollment patterns.

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## PROJECTIONS OF FIRST-TIME STUDENTS

The primary methodology used in producing these projections was to extrapolate current participation rates of recent high school graduates and of other adults from the general population. Full-time, first-time freshmen who graduated from high school the previous spring, all other first-time freshmen, and non-degree seeking students were separately projected. The external factors used were projections of Colorado high school graduates and of Colorado population by age group. Continuing students were then estimated by extrapolating their historical relationships to first-time students.

## Full-Time, First-Time, In-State Freshmen Who Are Recent High School Graduates

Projections of full-time, first-time, in-state freshmen who are recent high school graduates are given in Table 5 and graphed in Figure 7. These projections are based upon CCHE projections of Colorado high school graduates, and an assumption that current participation rates from high school will continue.

- the enrollment demand of in-state, degree-seeking, full-time, first-time freshmen who have recently graduated from high school is projected to increase by over 3,000 students between fall 1991 and fall 2001, from 10,859 to about 13,951 (about 28.5%);
- o the increased demand is projected to be greatest at the urban universities and colleges, and the research universities (over 1,000 each), and least at the rural community colleges and local district colleges;
- the majority of students in this category have historically started at the research universities and the urban universities and colleges, this pattern is projected to continue;
- there has been a large increase in the number of recent high school graduates starting full-time enrollment at community colleges over the last six years, especially in the urban area if this rate of increase continues, the projection of first-time freshmen for the urban community colleges may be conservative.

The projection of high school graduates by ethnic group for urban and rural regions of the state was done by CCHE staff using the same methodology and data presented in the May 1992 Commission agenda item on high school graduate projections. The total urban and rural projections equal the state total projection from that agenda item. The projections are displayed in Figure 8. Note that most of the projected growth is in the urban counties, with a projected increase of almost 8,000 students from school year 1991 to school year 2001. The projection of high school graduates in the rural counties is virtually flat, with only about 1,500 more graduates projected in 2001 than in 1991.



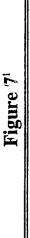
Table 5

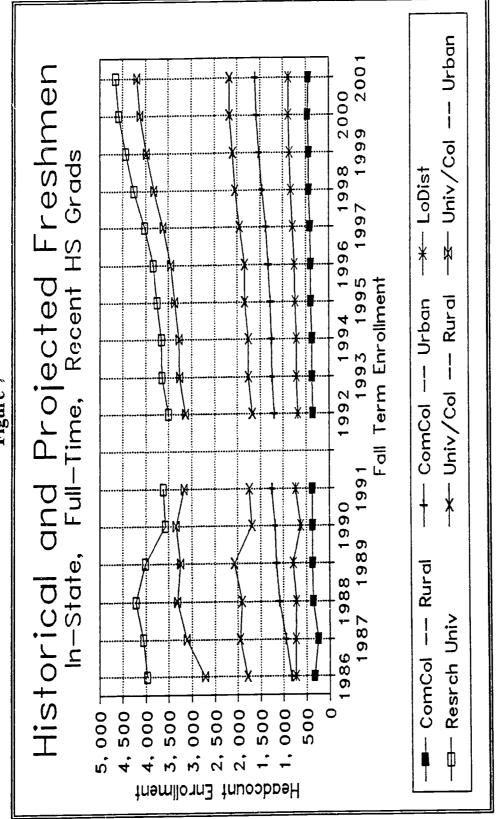
	Projection 1st-Time	jections of In-State, t-Time Freshmen Who Ar	State, Fu.	Full-Time, I	tate, Full-Time, Degree-Seeking, Who Are Recent High School Grads	sking, Grads	
Fall of	ComCol Rural	ComCol Urban	Local Dist.	Rsrch Univ	Univ/C Rural	Univ/C Urban	State Total
1 1	1 1 1	1 1 1 1 1 1 1	1 1 1 1 1	1 1 1 1	1 1 1 1	! ! !	1 1 1 1 1
8/986	327	821	735	3,969	1,781	2,711	10,344
981/8	241	949	734	4,056	1,941	3,113	11,034
988/8	344	1,086	721	4,213	1,899	3,311	11,574
1989/90	367	1,153	791	4,009	2,067	3,251	11,638
6/066	357	1,177	628	•	1,692	3,335	10,757

7,00	Шŭ	2	734	∥ ն	7.4	1	2 0
1766	2	4 2 1	# C /	101	۲ /	1	
992/	4	13	677	,50	, 67	, 13	0,53
993/	9	,24	708	,64	,75	,26	0,97
994/	9	,24	708	, 65	, 75	,27	1,00
995/	Ø	,27	738	, 75	,83	,36	1,34
/966	α	,31	744	,83	, 83	,45	1,56
/166	0	,37	787	, 01	,94	9,	2,14
988/	2	,45	825	, 26	,04	,82	2,83
666	$\omega$	, 52	847	,43	60,	986	3,31
2000/01	453	1,578	876	4,583	2,168	4,118	13,775
2001/02	4	9,	880	, 65	, 17	, 18	3,95
		1	, ,	יקם ררע:	1	£ 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	: :
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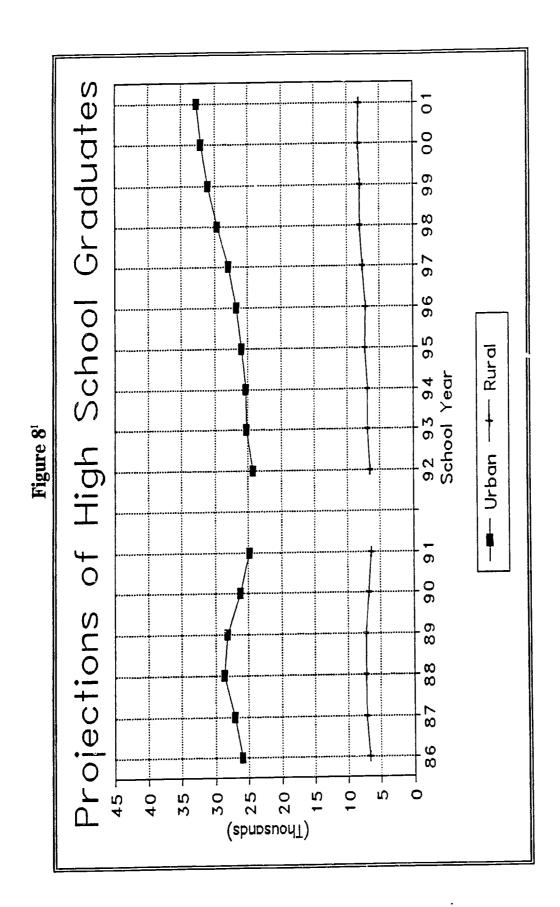




'SOURCE: CCHE projection based on an "All Things Remaining The Same" assumption of existing participation rates and enrollment patterns.

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October 7, 1992



1SOURCE: CCHE projection based on an "All Things Remaining The Same" assumption of existing participation rates and enrollment patterns.

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# All Other First-Time, In-State Freshmen

The projection of all other first-time freshmen<sup>1</sup> was based on participation rates by age group, from the Colorado population. The projections are presented in Table 6 and graphed in Figure 9. Summary conclusions from the table include<sup>2</sup>:

- there was a very large increase of enrollment in this category between fall 1986 and fall 1991, with almost 10,000 more students enrolled (27,777 versus 17,917);
- the forecast increase in demand, however, is much lower, with a forecast increase in 0 demand of about 2,000 more students;
- most students in this category enroll at the urban community colleges (17,389 out of 0 27,777 in fall 1991) and at the local district colleges (7,067 in fall 1991), there are relatively few individuals in this category at the four-year colleges;
- almost all the growth in this category, in fact, was in the urban area and the local district 0 colleges, there was either very little growth or a net loss at the research universities, and the rural colleges.

# Undergraduate and Graduate Special Students

Non-degree-seeking students (special students) at the four-year colleges and universities were projected similarly to the projection of other first-time freshmen, by using an extrapolation of current participation rates by age groups. Special students without a bachelor's degree (undergraduate) and with a bachelor's degree (graduate) were projected separately. The results of these projections are given in Table 7 and are graphed in Figure 10. In general:

- there was a large overall decrease in this category between fall 1986 and fall 1991, 0 dropping by about 1,000 students for undergraduates and by a little more than 100 students for graduate students;
- 0 most special students are enrolled at the urban universities and colleges, there are relatively few at the other four-year institutions;
- little change is forecast in this category between fall 1991 and fall 2001; a net forecast 0 increase of only 54 undergraduate special students and 150 graduate special students.

<sup>&</sup>lt;sup>2</sup>See Table 8 and Figures 11 and 12 in the end of this section for a presentation of the population projections.



<sup>&</sup>lt;sup>1</sup>For the community colleges and local district colleges, all other first-time students are forecast in this category, regardless of degree-seeking status or not; for the four-year and above colleges and universities, these projections are only for first-time, other degree-seeking freshmen - nc n-degree-seeking students are projected separately.

# Table 6

	Project	rojections of	In-State,	Other 18	1st-Time Freshmen	eshmen	
Fall of	ComCol Rural	ComCol Urban	Local Dist.	Rerch Univ	Univ/C Rural	Univ/C Urban	State Total
1 1 1 1 1 1	1 t t t	1 1 1 1 1 1	1 1 1 1 1	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1	1 1 1
8/986	1,148	10,178	4,433	415	585	1,158	17,917
981/8	1,021	12,691	,56	430	581	1,325	'n
8/886	•	13,679	,26	367	607	. ~	່ ຕໍ
1989/90	1,639	14,903	6,978	305	553	1,374	25,752
6/066	1,473	16,659	,25	203	613	1,393	7

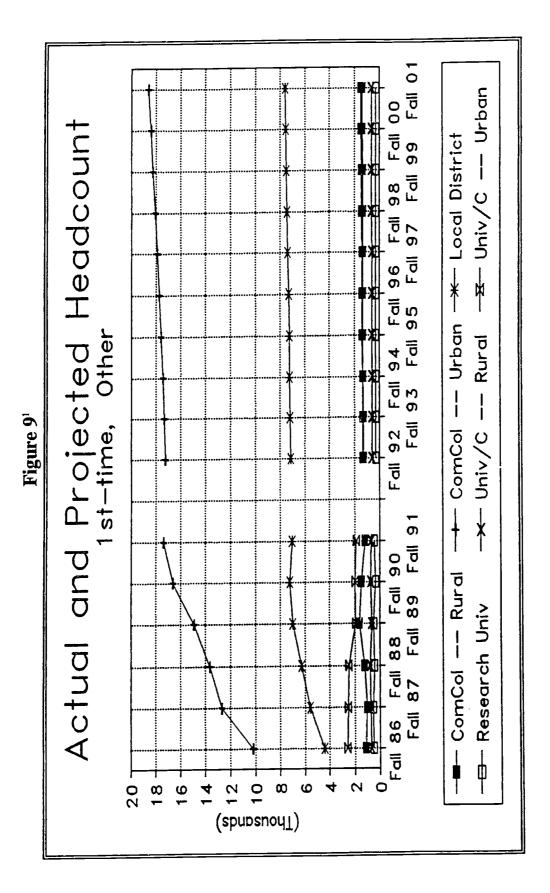
Same"	ning The	s Remain om high	"All Things n rates fro	sed on an rticinatio	ection ba	CCHE proje	SOURCE:
6	,49	621	ത	Ψ.	8,60	ωļ	2001/02
29,729	1,473	618	287	7,562		1,364	2000/01
6	,45	614	ന	ru.	8,24	വ	0/666
ď	, 43	609	$\sim$	4	8,07	35	6/866
ω	,40	603	$\sim$	G,	7,90	4	6/166
ω	,38	596	เก	G,	7,74	ന	6/966
ω	,37	589	IO	ú	7,59	$^{\circ}$	995/9
ω,	,35	582	in	ú	7,45	М	994/9
ω,	,34	575	10	H	7,34	0	993/9
7,	, 33	568	10	۲,	7,24	0	1992/93
7,	, 30	537	^	0	7,38	0	991/9

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'SOURCE: CCHE projection based on an "All Things Remaining The Same" assumption of existing participation rates and enrollment patterns.

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Table 7

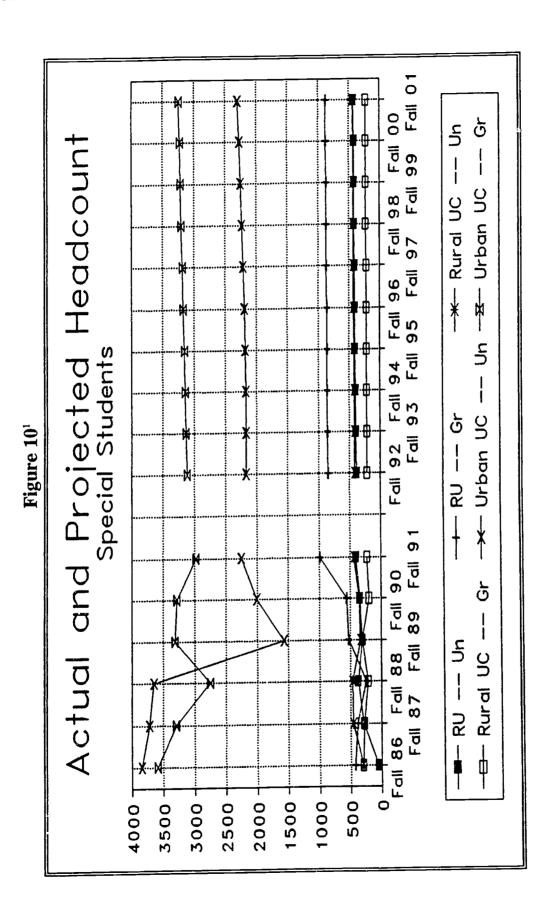
Projection	s of In-State,	Undergraduate a	nd Graduate Specia	al Students
Fall of	Rsrch U	Univ/C / Rural	Univ/C / Urban	Total
Undergraduate	Special Stude	nts		
1986/87	50	293	3,846	4,189
1987/88	288	460	3,722	4,470
1988/89	382	465	3,651	4,498
1989/90	306	337	1,571	2,214
1990/91	348	359	2,006	2,713
1991/92	411	442	2,250	3,103
1992/93	394	416	2,163	2,972
1993/94	397	418	2,163	2,978
1994/95	401	420	2,168	2,989
1995/96	404	423	2,177	3,004
1996/97	408	425	2,190	3,023
1997/98	412	427	2,206	3,046
1998/99	416	430	2,226	3,071
1999/00	419	432	2,248	3,099
2000/01	423	434	2,272	3,128
2001/02	426	435	2,296	3,157

Graduate Specia	l Students			
1986/87	429	295	3,590	4,314
1987/88	386	275	3,292	3,953
1988/89	246	216	2,753	3,215
1989/90	527	311	3,309	4,147
1990/91	556	199	3,275	4,030
1991/92	988	227	2,974	4,189

	1992/93		218	3,104	4,169
	1993/94	850	218	3,122	4,190
	1994/95	852	219	3,137	4,208
	1995/96	85 <b>4</b>	220	3,151	4,225
l	1996/97	857	<b>2</b> 21	3,165	4,243
	1997/98	860	222	3,179	4,261
	1998/99	864	223	3,193	4,279
	1999/00	867	224	3,207	4,299
	2000/01	872	226	3,222	4,319
	2001/02	876	227	3,236	4,339
11					

SOURCE: CCHE projection based on an "All Things Remaining The Same" assumption of existing participation rates.





<u>- `</u> رنن <sup>1</sup>SOURCE: CCHE projection based on an "All Things Remaining The Same" assumption of existing participation rates and enrollment patterns. ري. رسي



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## Population Projections

The projections in the previous two sections of other first-time students and of special students were based on participation rates by age group from the Colorado population. Table 8 and Figures 11 and 12 display these projections. Table 8 includes six years of historical data (1986 through 1991) and projections through 2001. The bottom half of the table shows percent changes relative to 1991. Figure 11 graphs the four age groups that provide the primary source of enrollment, and Figure 12 graphs the younger and older age groups. General conclusions from the population projections include:

- the overall Colorado population is projected to increase by almost 10% from 1991 to 2001, from 3.3 million to over 3.6 million;
- o this increase, however, is not uniform by age group, with the 40 -- 54 year old group forecast to increase by 39%, while the 30 -- 39 year old group may decrease by about 15%;
- the age groups providing the primary source for enrollment of non-traditional students (those between 25 and 39) are forecast to decrease by about 120,000 between 1991 and 2001:
- the more traditional college-going group (those between 15 and 24) is projected to increase by about 71,000.

Additional analysis of the population data by urban and rural areas of the state shows that the population growth is also projected to differ by region of the state, with a 14% increase in the ten urban counties, compared to only a 5.5% increase in the rural counties. The rural population comprised about 18% of total state population in 1991.

## Implications of Population Projections for the Projection of Enrollment Demand

Changes in the participation of students can make a greater change in actual enrollment than small changes in the general population. For example, Figure 9 showed that urban community college enrollment of first-time students was increasing during a time when the population was fairly stable (see Figures 11 and 12). Tables 9, 10, and 11 look at this issue in more detail. Table 9 shows total public, in-state headcount enrollment, by age group, for rural and urban areas of the state between fall 1986 and fall 1991, and Table 10 shows the population by the same age groups and regions. Table 11 shows the percent of each age group enrolled by region. This table shows that the overall participation of each age group increased greatly between fall 1986 and fall 1991, but that the rate of increase slowed down a little between fall 1990 and fall 1991. Changes in participation over the next ten years could lead to large changes from the "All things Remaining The Same" projections in this paper.



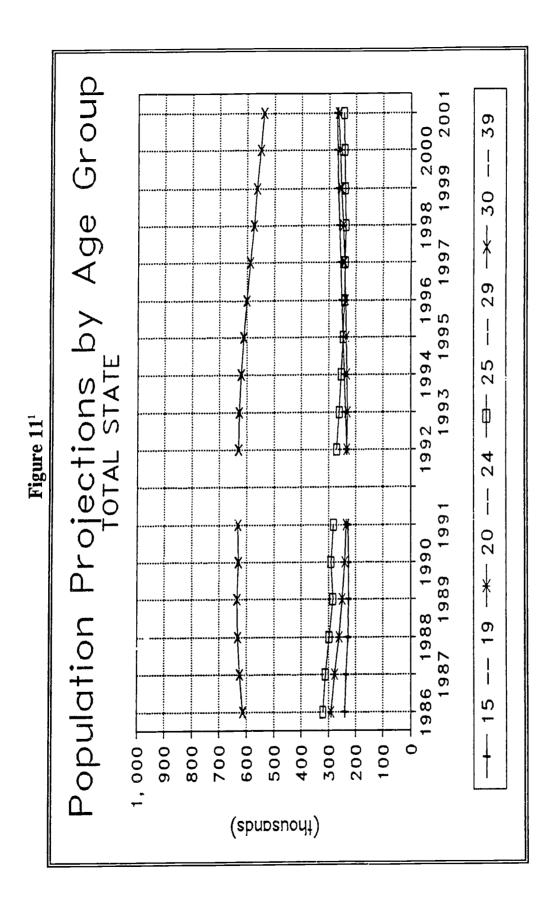
Table 8

			Population	13 ì	Projections	s (in 1000's)		and Percent		Change,	b.	Age Groups	sdn			
	1986	1987	1988	1989	1990	1661	1992	1993	1994	1995	1996	1661	1998	1999	2000	2001
0 - 14	741	750	753	757	734	741	745	747	749	748	747	746	743	740	738	735
15 – 19	241	236	229	226	225	229	233	237	242	247	252	256	260	264	267	270
3-24	289	277	361	250	239	234	232	231	232	235	238	243	248	253	258	264
25 – 29	320	310	297	284	290	2.50	270	261	253	247	242	239	238	239	241	245
30 – 39	614	626	632	634	629	631	631	627	621)	611	009	588	57.5	562	550	539
40 - 54	512	534	557	583	599	628	657	687	716	745	773	798	321	842	859	873
55 or Min	545	558	\$68	580	581	986	865	809	819	629	542	959	229	069	710	732
Total	3,263	3,29!	3,298	3,314	3,298	3,333	3,366	3,398	3,430	3,462	3,493	3,525	3,557	3,590	3,623	3,656
Percent Change, Relative to	Chang	e, Relat	ive to	1991												
0 - 14	0.0%	1.2%	1.7%	2.2%	26:0-	0.0%	0.5%	0.9%	1.0%	1.0%	0.9%	0.6%	0.3%	-0.1%	%S:0-	-0.9%
15 – 19	5.3%	3.1%	9.0%	-1.2%	-1.5%	0.0 ₹	1.8%	3.8%	%0.3	8.1%	10.7%	12.1%	13.5%	15.5%	16.8%	18.0%
20 – 24	23.4%	18.2%	11.2%	6.4%	1.8%	9.0%	-10%	-1.3%	-0.9%	3.2%	1.6%	3.5%	5.6%	7.9%	10.2%	12.6%
25 - 29	14.5%	10.9%	6.2%	1.5%	3.6%	\$0.0	-3.5%	-6.7%	%5 6-	-11.8%	-13.5%	-14.5%	-14.5%	-14.6%	-13.8 €	-12.6%
30 - 39	-2.7%	₩6:0-	0.2%	0.5%	4.4%	0.0%	-0.1%	0.8%	-1.8%	-3.3%	-5.0%	-6.9%	<b>%</b> 0 6-	-1:.0%	-12.9%	-14.7%
40 54	-18.5%	-14.9%	-11.2%	-7.1%	4.5%	%0.0	4.7%	9.4%	14.1%	18.7%	23.0%	27.1%	31.8%	34.1%	36.8%	39.0%
55 or More	-7.5%	-5.4%	-3.7%	.1.6%	-1.4%	0.0%	1.5%	3.0%	4.8%	6.7%	8.8%	11.2%	13.9%	17.0%	20.4%	24.2%
Total	-2.1%	-1.3%	-1.1\$	-0.5%	-1.1%	%0′∂	1.0%	2.0%	2.9%	3.9%	4.8%	5.8%	6.7%	7.7%	8.7%	£.7%
SOURCE: Colorado Sute Demographer's Office,	Colorado S	state Demo	grapher's C		August 1991 projections	njections.										-

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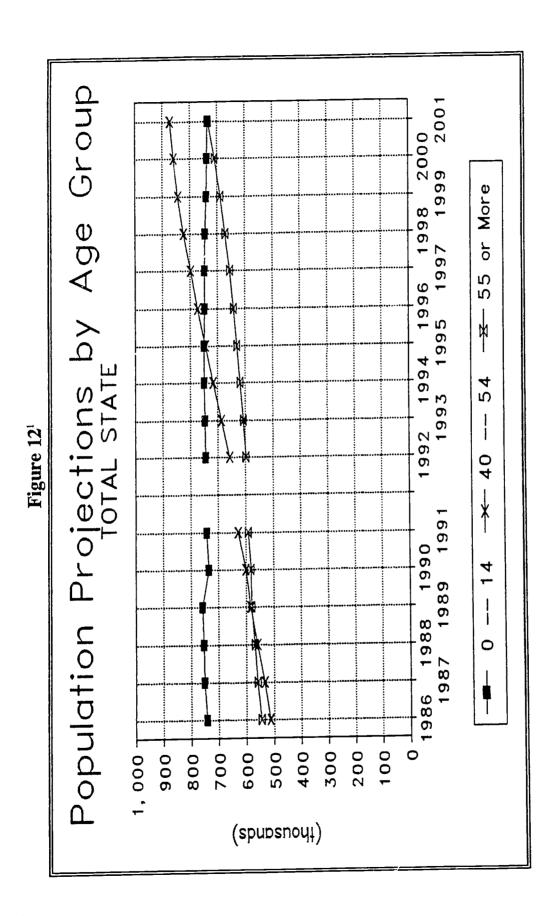


'SOURCE: Colorado State Demographer's Office, August 1991 Projections.

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<sup>1</sup>SOURCE: Colorado State Demographer's Office, August 1991 Projections.

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Table 9

Enroll	ment by Age	Group of	All In-	State He	adcount	by Regio	<u> </u>
Urban/Rural	Age Groups	Fall86	Fall87	Fall88	Fall89	Fall90	Fall91
Rural	15 19 20 24 25 29 30 39 40 54 55 or More	5,381 5,608 3,292 6,068 2,901 824	5,760 5,636 3,623 6,799 3,707 1,227	5,841 5,651 3,255 6,572 3,675 1,105	6,024	5,925 6,192 3,364 6,993 4,685 1,248	5,738 6,396 3,417 7,206 5,096 1,400
Urban	15 19 20 24 25 29 30 39 40 54 55 or More	20,494 36,121 18,339 23,459 9,531 2,047	21,414 36,264 17,993 23,981 10,503 2,150	22,408 36,832 18,692 25,565 12,204 2,300	23,221 39,246 19,594 27,667 14,210 2,737	23,507 42,168 19,687 28,776 15,295 2,787	23,390 45,414 19,852 28,923 16,095 2,766

Table 10

	Popul	ation by	Age Group	and Regi	on		
Region	Age Groups	1986	1987	1988	1989	1990	1991
Rural	15 19	41,982	40,340	39,647	39,870	41,248	41,973
Rural	20 24	46,652	44,007	42,533	41,531	35,714	35,985
Rural	25 29	56,778	54,587	53,418	51,869	45,005	43,179
Rural	30 39	107,137	108,541	110,423	111,308	109,638	107,939
Rural	40 54	91,756	94,897	98,903	103,239	108,441	113,287
Rural	55 or More	117,020	118,498	119,761	121,227	131,047	131,184
Urban	15 19	198,616	195,235	188,941	185,940	183,951	186,617
Urban	20 24	242,758	233,217	218,081	207,996	202,971	198,466
Urban	25 29	263,517	255,783	243,808	232,118	244,855	236,642
Urban	30 39	507,067	517,028	522,071	523,069	519,415	523,460
Urban	40 54	420,053	439,108	458,595	479,914	490,951	514,580
Urban	55 or More	428,261	439,243	448,210	458,755	450,210	458,419

Table 11

Participatio	n Rates by A	ge Group	and Reg	lon for 1	All In-St	ate Head	icount
Urban/Rural	Age Groups	Fall86	Fall87	Fall88	Fall89	Fall90	Fall91
Rural	15 19 20 24 25 29 30 39 40 54 55 or More	12.020% 5.798% 5.664%	6.264% 3.906%	13.285% 6.093% 5.952%	14.506% 6.704% 6.121% 4.166%	17.338% 7.475% 6.379% 4.320%	17.775% 7.914% 6.676% 4.499%
Urban	15 19 20 24 25 29 30 39 40 54 55 or More	14.879% 6.959% 4.626% 2.269%	4.638%	16.889% 7.667% 4.897% 2.661%	18.869% 8.442% 5.289% 2.961%	20.775% 8.040% 5.540% 3.115%	22.8821 8.3891 5.5251 3.1281



## ENROLLMENT LEVELS (FULL-TIME OR PART-TIME)

In projecting headcount enrollment, it is important to know whether the students are enrolling as full-time students<sup>1</sup> or part-time students. It is also important to know whether there has been a trend over the past several years in changes in the enrollment level of students since those trends would affect projections of full-time equivalent students and also have implications for future demands on the system. Tables 12 through 14 display the full-time/part-time status of undergraduate and graduate students, by public institutional type, for fall 1986 through fall 1991. These tables show that there are large differences between sectors and across student level with regard to the enrollment status of students:

- o graduate students are more likely to enroll part-time or less-than-part-time than undergraduates, even given the different definitions of the number of credit hours required to be considered full-time, for example, in fall 1991, 48% of graduate students at research universities were enrolled full-time compared to 90% for undergraduates;
- students at community colleges are less likely to enroll full-time that those in the fouryear sectors, for example, in fall 1991, about 47.5% of rural community college students, 28% of urban community college students, and 18% of local district college students enrolled for twelve or more credit hours;
- o part-time students at community colleges are also more likely to be taking five or fewer credit hours in most cases, students in this group are enrolled for only one class for example, in fall 1991, 40.5% of all rural community college, 43% of urban community college, and 71% of all local district college students were taking five or fewer credit hours; and
- students at universities and colleges, especially in the urban area, are more likely to be enrolled less-than-full-time than students at research universities.

These differences represent the differing ages of students at each institutional type as well as differing institutional roles and missions. The most important point to note in these tables, however, is that there does not appear to be a significant trend in these rates. While there are slight variations from year to year, the overall distribution in fall 1991 is very similar to the distribution in previous years. It is reasonable to assume, therefore, that the enrollment levels of students in future years are likely to be similar to the levels in these tables.

<sup>&</sup>lt;sup>1</sup>As defined by the CCHE, full-time for undergraduate students is 12 or more credit hours and 9 or more credit hours for graduate students. Part-time students are categorized into two categories, those taking fewer than 6 credit hours, and those taking between 6 to 11 hours (for undergraduates) or between 6 to 8 hours (for graduate students).



Table 12'

Inst Ty	pe .	Level	Fall86	Fall87	Fall88	Fall89	Fall90	Fall91
ComCal	Rural	Undergraduate	42.3%	43.2%	40.4%	45.5%	43.2%	40.5
ComCol	Urban	Undergraduate	44.0%	43.8%	44.6%	45.1%	44.7%	42.8
LoDist	Total	Undergraduate	68.0%	72.2%	69.1%	69.7%	72.4%	71.1
Rsrch	Univ	Undergraduate	2.6%	2.5%	2.2%	2.7%	2.8%	2.9
Univ/C	Rural	Undergraduate	9.7%	9.2%	9.1%	6.9%	7.4%	7.4
Univ/C	Urban	Undergraduate	16.0%	14.5%	12.8%	12.6%	11.5%	10.7
Rsrch	Univ	Graduate	26.7%	25.5%	26.8%	26.7%	27.1%	29.4
Univ/C	Rural	Graduate	67.9%	69.7%	55.0%	59.5%	47.5%	58.7
Univ/C	Urban	Graduate	50.9%	52.0%	51.4%	49.3%	48.5%	44.8

Table 13

		or for Six	to Eight	Hours (	iraduates	<b>;</b> )		
Inst Typ	œ	Level	Fall86	Fall87	Fall88	Fall89	Fall90	Fall91
ComCol	Rural	Undergraduate	10.3%	10.9%	12.1%	10.4%	10.1%	12.0
ComCal	Urban	Undergraduate	26.9%	27.2%	26.6%	27.0%	27.7%	29.3
LoDist	Total	Undergraduate	8.9%	8.8%	10.3%	10.4%	10.4%	10.8
Rsrch	Univ	Undergraduate	7.6%	7.3%	6.9%	6.3%	6.2%	6.8
Univ/C	Rural	Undergraduate	7.5%	7.8%	8.2%	8.0%	8.8%	9.9
Univ/C	Urban	Undergraduate	23.0%	22.1%	22.2%	21.9%	21.4%	21.3
Rsrch	Univ	Graduate	23.0%	21.9%	23.4%	22.6%	21.8%	22.6
Univ/C	Rural	Graduate	17.1%	12.4%	25.4%	17.7%	25.5%	15.9
Univ/C	Urban	Graduate	24.8%	24.9%	27.8%	28.3%	28.8%	30.7

Table 14

Perce	entage of	Students Enrolle or (>= N	d Full-Ti			ours, Und	iergradua	ites)
Inst Typ	oe .	Level	Fall86	Fall87	Fall88	Fall89	Fall90	Fal 191
ComCol	Rural	Undergraduate	47.4%	45.9%	47.5%	44.1%	46.7%	47.5
ComCol	Urban	Undergraduate	29.1%	29.0%	28.8%	27.9%	27.6%	27.9
LoDist	Total	Undergraduate	23.1%	19.0%	20.6%	19.9%	17.2%	18.1
Rsrch	Univ	Undergraduate	89.8%	90.2%	90.9%	91.0%	91.0%	90.3
Univ/C	Rural	Undergraduate	82.8%	83.0%	82.7%	85.1%	83.8%	82.8
Univ/C	Urban	Undergraduate	61.0%	63.3%	65.0%	65.5%	67.1%	68.0
Rsrch	Univ	Graduate	50.3%	52.6%	49.8%	50.7%	51.1%	48.0
Univ/C	Rural	Graduate	15.1%	17.9%	19.5%	22.7%	27.1%	25.3
Univ/C	Urban	Graduate	24.4%	23.1%	20.8%	22.4%	22.7%	24.6



<sup>&</sup>lt;sup>1</sup>SOURCE: SURDS Fall Enrollment Files submitted by the institutions.



## PERCENTAGES OF FEMALES

Another issue to be considered when producing projections is whether or not participation differs greatly by gender. Table 15 presents data that shows the percentage of total female enrollment over the last six years for each institutional sector and for undergraduate and graduate students. The table shows that:

- the percentage of females enrolled in the public system has remained fairly constant over the last six years, there does not appear to be either an increase or decrease in the participation of females during this time period;
- o in all but the research universities, there are more females than males enrolled, with over 6 out of 10 students at the urban community colleges and local district college being female; and
- o over two-thirds of the graduate students at rural universities and colleges are female.

Since the percentage of female enrollment has not changed significantly over the last few years, it is reasonable to assume that the headcount projected for the next ten years would be comprised of similar percentages of male and females as displayed in Table 15.

Table 15'

			-	/ Institu				
Inst Typ	oe 	Level Summaries	Fall86	Fall87	Fall88	Fall89	Fall90	Fall91
ComCol	Rural	Undergraduate	57.9%	56.8%	54.6%	53.0%	53.4%	54.9
ComCol	Urban	Undergraduate	59.5%	60.8%	61.4%	60.3%	60.1%	60.6
LoDist	Total	Undergraduate	56.4%	61.2%	60.9%	59.9%	61.0%	60.6
Rsrch	Univ	Undergraduate	46.6%	47.1%	47.4%	47.5%	47.6%	47.0
Univ/C	Rural	Undergraduate	49.7%	50.6%	52.1%	52.1%	52.7%	53.4
Univ/C	Urban	Undergraduate	53.2%	55.5%	54.3%	54.5%	54.0%	53.9
Rsrch	Univ	Graduate	44.9%	44.3%	44.3%	45.4%	45.6%	45.3
Univ/C	Rurai	Graduate	66.2%	63.4%	62.9%	65.6%	70.2%	66.0
Univ/C	Urban	Graduate	55.6%	56.5%	57.5%	57.0%	56.6%	56.6

<sup>&</sup>lt;sup>1</sup>SOURCE: SURDS Fall Enrollment Files submitted by the institutions.



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# FINANCIAL IMPLICATIONS OF THE PROJECTIONS

Enrollment projections show an increase in demand for public higher education in the next ten years of over 20%. Two factors are projected to have a significant impact on the growth and distribution of demand for education services in Colorado: (1) an increase in the number of recent high school graduates; and (2) a decrease in the adult population between the ages of 25 and 40.

If traditional patterns of attendance continue, increased recent high school graduates will translate into increased demand in urban universities and colleges, and research universities as full-time degree seeking students. Projections done at this time assume this pattern will continue, however, if the rate at which recent high school graduates choose to attend community colleges continues to increase, projected enrollment at urban community colleges may be low. The changing age distribution of the Colorado population shows that the pool of residents (ages 25 to 40) is decreasing. This trend is projected to translate to a slower rate of growth among non-traditional students than we have seen in the past.

The estimated changes in growth and distribution of resident FTE is shown in Figure 13.

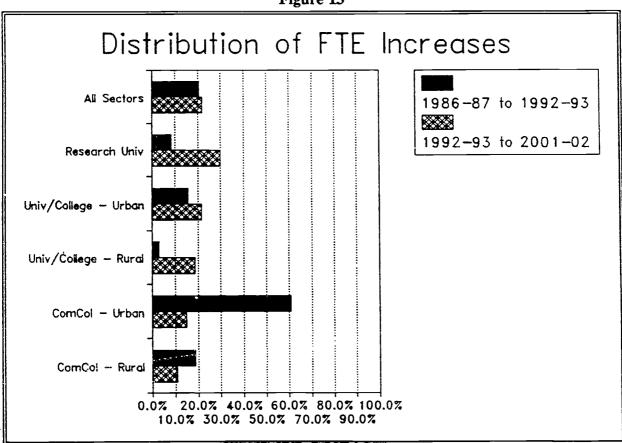


Figure 13

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## Revenue Estimates

Unless otherwise noted, all revenue estimates are in current (non-inflated dollars). General fund revenue is assumed to support Colorado resident students only. Resident tuition revenue is estimated for FY92 and FY93. All estimates exclude the University of Colorado Health Sciences Center and the Professional Veterinary Medicine School at Colorado State University.

## 1992-93 Summary

- Resident tuition revenue and general fund revenue is estimated at \$540.7 million for 1992-93, including \$339.1 million in general fund and \$201.6 million in resident tuition revenue. Resident enrollment is estimated at 108,610 FTE.
- Resident tuition revenue per FTE is estimated at \$1857. General fund is estimated at \$3123 per resident FTE.

## Changes from 1986-87 to 1992-93

- Estimated resident student FTE has increased by 18,470, or 20.5%.
- General Fund revenue has increased \$92.7 million (37.7%), and \$389 per student (14.3%).
- Estimated resident tuition revenue has increased \$88.1 million (77.7%) and \$597 per student (47.5%).
- Estimated total revenue has increased \$180.9 million (50.3%) and \$987 per student (24.7%).
- The state share of resident student revenue (tuition and general fund) has declined from 68.5% to 66.1% in 1990-91 and is estimated at 62.7% for 1992-93.
- o Adjusted for inflation, 1992-93 estimates show:

General fund revenue has increased \$35.5 million. General fund per student has decreased \$240 (-7.3%). Tuition revenue has increased \$61.8 million and \$305 (19.7%) per student. Total revenue has increased \$97.3 million. Total revenue per student has increased \$60 (1.2%).



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## 1993-94 Projections

 Enrollment projections estimate the following resident FTE increases by sector for 1993-94:

Rural Community Colleges	1.3%
Urban Community Colleges	2.8%
Rural Universities/Colleges	1.4%
Urban Universities/Colleges	2.9%
Research Universities	1.9%
Total	2.4%

- \$12.6 million in new revenue will be needed to maintain the current per student funding level. Given the current state share, and project demand for 1993-94, \$9.0 million general fund will be needed and \$3.6 million in resident tuition revenue.
- To return to the state share/student share that existed in 1990-91, The state share would have to increase by \$27.2 million in 1993-94.

## 2001-02 Projections

- enrollment is estimated to increase by 23,737 (21.8%) resident FTE. This increase is comparable to the current enrollment at the Auraria campus (Metro, UC-D and CCD combined).
- To maintain the current state share/student share of 62.7%, \$80 million in additional general fund will be needed. To maintain a 66% state share, a \$101.6 million increase will be needed.



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# PROJECTION OF DEGREES GRANTED, BY LEVEL

The relationship of total headcount to degrees granted by level was examined for fiscal year 1987 through fiscal year 1991 (the last year for which data was available). These relationships were used, along with the projections of total headcount enrollment, to project degrees through fiscal year 2002. These projections are shown in Table 16. Figures 14 through 19 present these projections for in-state students receiving degrees. Several points to note from Table 16 include:

- bachelor's degrees comprise the majority number of degrees granted by Colorado public institutions, almost 12,000 baccalaureate degrees were granted to in-state students in FY 1991;
- o if the forecast of student demand results in actual enrollments, and if these students continue to graduate at current rates, then there would be over 4,000 more baccalaureate degrees granted to in-state students in FY 02, an increase of about 33%;
- vocational certificates and associate degrees (AAS) granted by community colleges far exceed the academic associate degrees granted (AA, AS, and AGS), an increase is, however, forecast in all three of these categories by FY 2001.



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Tution T	8	338	1,380	477	48	0	9	\$	18	3	131	1,711	500	8	0	18	46	37	7	0	191	732	99†	93	0	200	16	70	10	٥
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grees G	68	286	1,137	318	59	0	18	29	12	2	132	1,541	462	<u>8</u>	0	23	69	<u>4</u>	2	0	156	574	463	86	0	202	14	7	13	0
Table 16 ection of Degrees Granted, by Institution Type and Tuition Status	88	239	933	281	88	-	24	33	15	2	132	1,514	450	108	-	17	7	41	0	0	126	898	90	104	2	204	23	14	9	0
Projecti	87	243	999	202	2	-	33	36	7	1	129	1,540	498	116	7	47	8	\$	2	+	138	451	376	98	13	170	46	17	3	-
Proj	Degr. Levels	Certificate	Certificate	Certificate	Certificate	Certificate	Certificate	Certificate	Certificate	Certificate	SVV	AAS	VAS	AAS	VAS	SYV	VAS	VAS	AAS	YYY	AA/AS/AGS	VA/AS/AGS	AA/AS/AGS	AA/AS/AGS	AA/AS/AGS	AA/AS/AGS	AA/AS/AGS	AA/AS/AGS	SDY/SY/YY	AA/AS/AGS
	Urban/Rural	Rural	Urben	Total	Rural	Urber	Rural	Urban	Total	Rurai	Rural	Urban	Total	Rurei	Urban	Rural	Urben	Total	Rurel	Urban	Rural	Urben	Totaí	Rural	Urben	Urban	Rurel	Totel	Rural	Urban
	InstType	ComCol	ComCol	LoDiet	Univ/C	Univ/C	ComCol	ComCol	LoDist	Univ/C	ComCol	ComCol	LoDist	Univ/C	Univ/C	ComCol	ComCol	LoDist	Univ/C	Univ/C	ComCol	ComCol	LoDist	Univ/C	Univ/C	ComCol	ComCol	LoDist	Univ/C	Univ/C
	Tuit. Status	In-State	In-State	Is state	In-State	In-State	Out-of-State	Out-of-State	Out-of-State	Out-of-State	In-State	In-State	In-State	In-State	In-State	Out-of-State	Out-of-State	Out-of-State	Out-of-State	Out-of-State	In-State	In-State	In-State	In-State	In-State	Out-of-State	Out-of-State	Out-of-State	Out-of-State	Out-of-State

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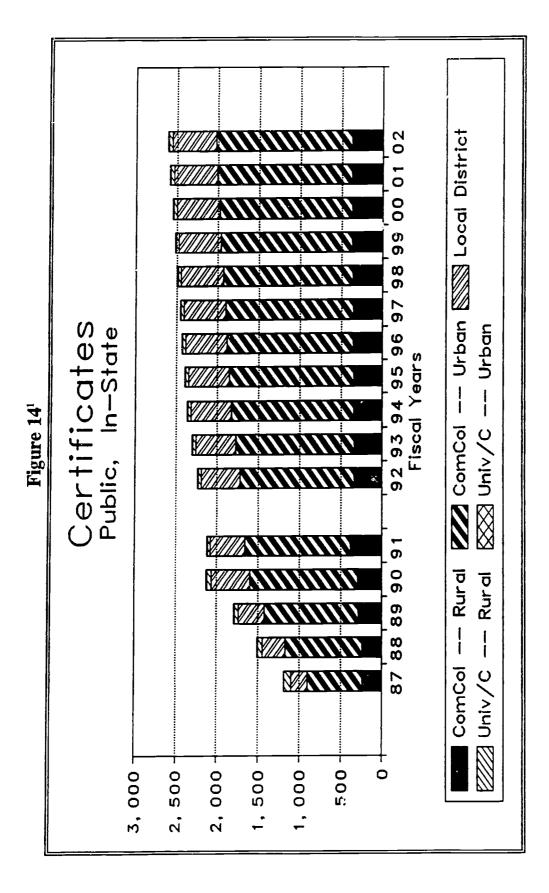
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							1	Table 16											
				Project	ion of D	egrees G	ranted,	by Insti	ection of Degrees Granted, by Institution Type and Tuition Status	'pe and	Tuition (	Katus							
Tuit. Status	InstType	Urban/Rurel	Degr. Levels	87	88	68	8	16	25	93	94	95	96	26	86	66	8	10	23
In-State	RerchU	Urben	Bachelor's	295'5	5,575	80+'5	5,788	5,677	2,867	876'5	6,027	6,141	6,296	6,474	6,672	6,883	7,112	7,364	7,623
In-State	Univ/C	Rural	Bachelor's	1,226	1,197	1,298	1,273	1,260	1,22,1	1,306	1,343	1,357	1,380	1,405	1,436	1,467	1,505	1,548	1,591
In-State	Univ/C	Urben	Bachelor's	4,309	4,373	₹,685	4,989	4,973	5,162	5,471	5,694	5,880	6,042	6,182	6,313	6,438	6,565	6,703	6,844
Out-of-State	RerchU	Urben	Bachelor's	1,319	1,311	1,393	1,507	1,675	1,663	1,681	1,709	1,741	1,785	1,835	1,891	1,951	2,016	2,088	2,161
Out-of-State	Univ/C	Rural	Bachelor's	125	124	145	148	167	156	166	171	172	175	179	182	187	161	197	202
Out-of-State	Univ/C	Urban	Bachelor's	226	274	203	223	221	230	244	254	262	269	275	281	287	292	298	305
In-State	RerchU	Urban	Master's	1,208	1,303	1,340	1,302	1,405	1,489	1,411	1,423	1,453	1,485	1,526	1,571	1,624	1,684	1,746	1,808
In-State	Univ/C	Rural	Master's	252	266	322	317	141	506	313	317	322	324	330	335	343	353	361	371
In-State	Univ/C	Urban	Master's	1,128	1,206	1,421	1,495	1,597	1,673	1,701	1,765	1,821	1,865	1,908	1,948	1,990	2,036	2,082	2,129
Out-of-State	RerchU	Urban	Master's	331	357	410	447	462	467	471	475	485	495	88	524	542	262	282	603
Out-of-State	Univ/C	Rural	Master's	10	€0	16	11	6	11	17	17	17	18	18	<b>*</b> 2	19	6	ន	ន
Out-of-State	Univ/C	Urban	Master's	213	232	184	206	165	192	195	203	209	214	219	224	228	234	239	244
In-State	RarchU	Urban	PhD/1stProf	465	<del>1</del> 05	19†	476	491	528	9S	\$05	515	527	541	557	576	597	619	641
In-State	Univ/C	Urban	PhD/1stProf	36	4	જ	51	41	48	48	જ	22	53	54	55	22	28	59	61
Out-of-State	RerchU	Urban	PhD/1stProf	114	121	132	124	150	153	145	147	150	153	157	162	167	174	180	186
Out-of-State	Univ/C	Urban	PhD/1stProf	51	49	44	48	38	7	45	47	48	46	51	22	53	\$	SS	26
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<sup>1</sup>This table does not include graduates from the UCHSC and the CSU veterinary medicine program.



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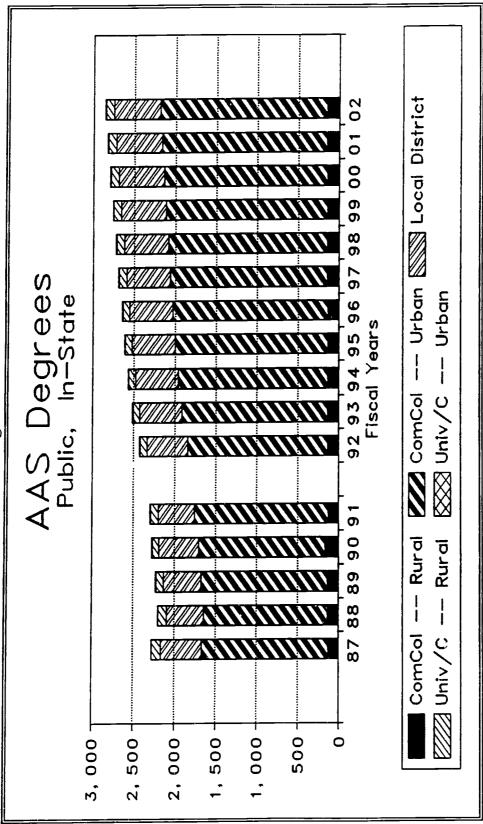
<sup>1</sup>SOURCE: Colorado State Demographer's Office, August 1991 Projections.

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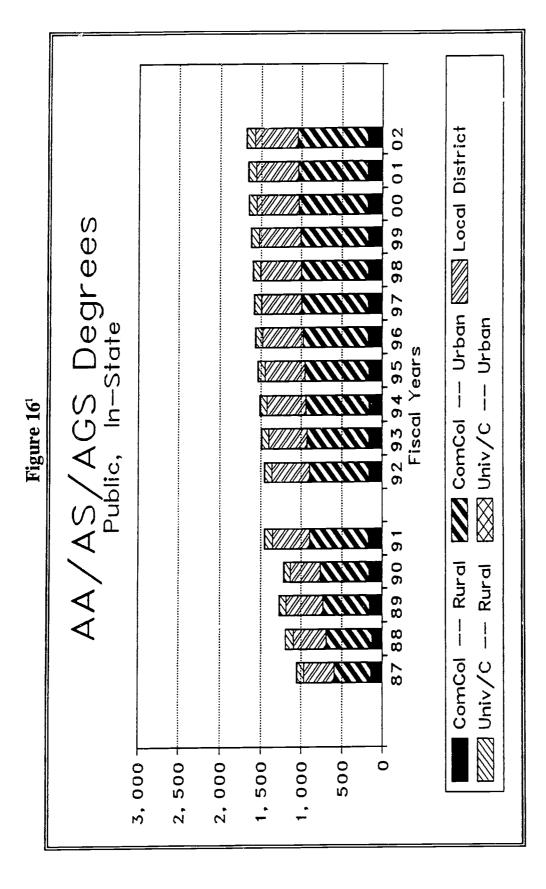
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Figure 151



<sup>1</sup>SOURCE: Colorado State Demographer's Office, August 1991 Projections.

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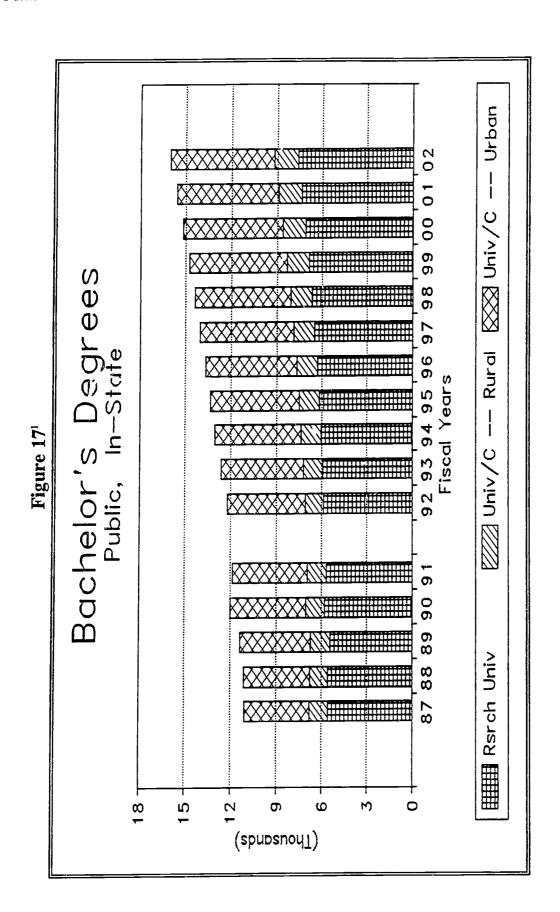


SOURCE: Colorado State Demographer's Office, August 1991 Projections.

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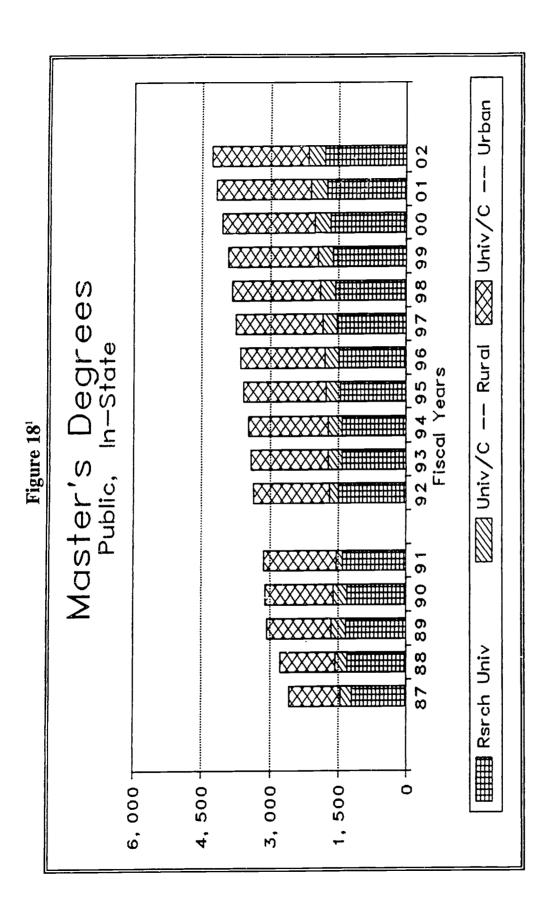




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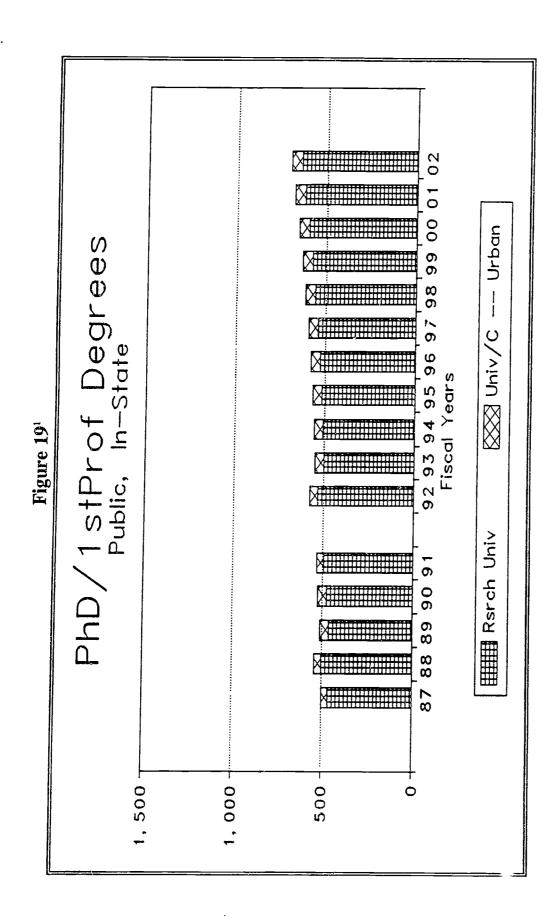
<sup>1</sup>SOURCE: Colorado State Demographer's Office, August 1991 Projections.

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<sup>1</sup>SOURCE: Colorado State Demographer's Office, August 1991 Projections.

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SOURCE: Colorado State Demographer's Office, August 1991 Projections.