OAKLAND
COMMUNITY
COLLEGE

Memo

To: Beth Kendall, Director,
Budget & Financial Planning

From: Martin A. Orlowski, Director,
Institutional Planning & Analysis

Subject: Enrollment Trend Analysis

Date: October 3, 1996

Based on your request the Office of Institutional Planning & Analysis has analyzed end of session enrollment for the past ten years. The attached study employs a moving mean statistic in relation to actual enrollment. The model used in this study uses past enrollment to predict future enrollment.

If you have any questions with regard to this study, please do not hesitate to call Sue Cheng or myself at 7746. We hope that this report will provide you with the information you need for your work with the College Budget Council.

Attachment: Enrollment Trend Analysis

pc College Planning Council
S. Cheng

/s

Oakland Community College
Enrollment Trend Analysis

Methodology

Implicit in trend oriented data are fluctuations over time. These fluctuations may be natural variations or an abnormality caused by an outside force. To accurately determine if an enrollment shift from one year to the next indicates increase or decline, actual enrollment data, moving mean, standard deviation, and predicted range are summarized in this study. Data are based on end of session enrollment for all four terms at each campus and college-wide.

Definitions

Moving mean: Statistic calculated by looking at three year intervals and taking the average of that interval.
Standard deviation of the moving mean: Represents the range above or below the moving mean within which values must lie in order to be considered normal variation.
Predicted range: Calculated by adding and subtracting one standard deviation from the moving mean.

If enrollment falls on the moving mean, the data is considered static for that time period. When enrollment is not on the moving mean *(trend line)* yet falls within the predicted range this indicates normal enrollment fluctuation. Enrollment that falls outside the predicted range are aberrations, unexplained by normal fluctuations. These aberrations may be due to an exceedingly high or low enrollment year, or be caused by a condition not immediately identifiable (high school graduation rates, college marketing efforts, employment/unemployment rate, competition, etc.).

Analysis

College-Wide

Oakland Community College has experienced remarkable enrollment decreases since Fall 1993. Enrollment figures have either reached or fallen below the low end of the expected range for the past three years. Although small gains were shown in the Spring and Summer of 1995, the number of student credit hours dropped back down in subsequent terms.

Campus

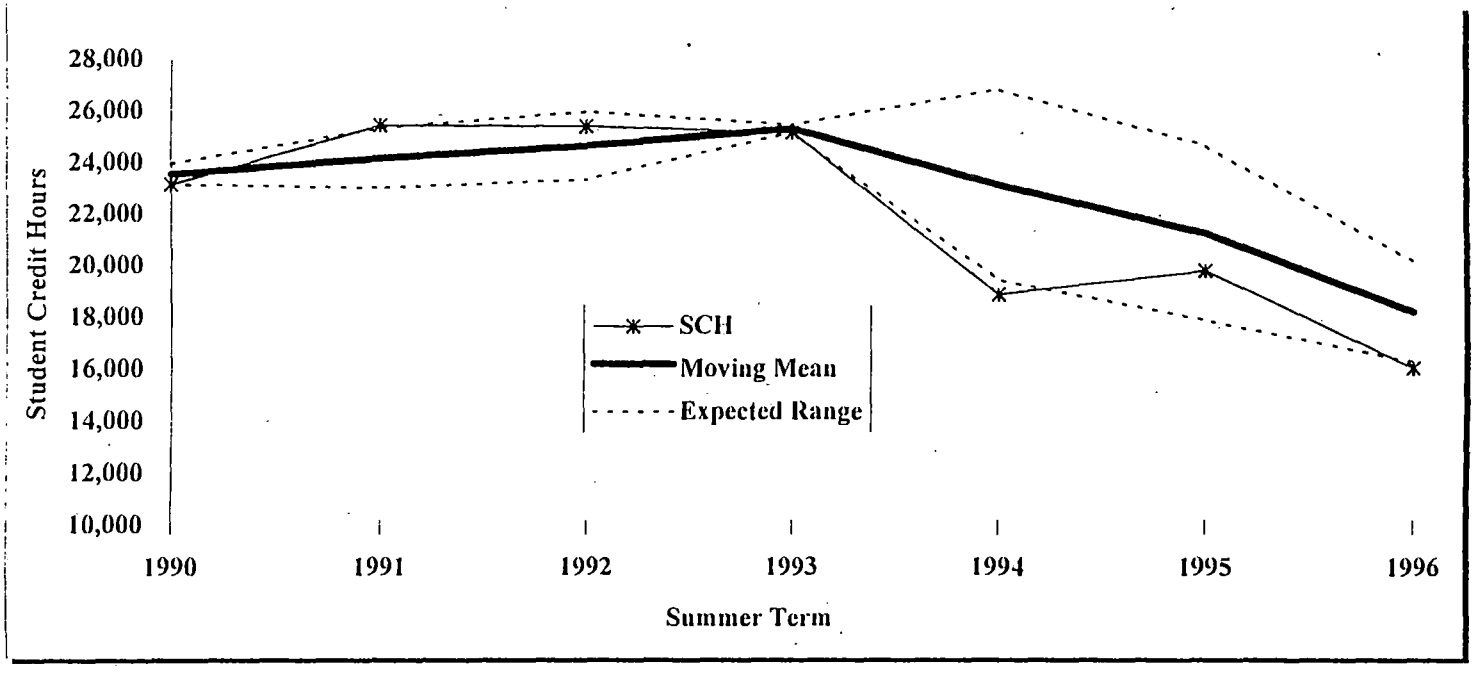
Auburn Hills and Highland Lakes have undergone enrollment declines similar to the College-Wide trends. However, Orchard Ridge has experienced enrollment losses for each term starting with Fall 1992. On the other hand, Royal Oak and Southfield enrollment remained relatively steady for the past six years.

Prediction

For the past seven years, both college-wide and campus enrollment have either fallen into or been very close to the expected range. Especially, over the last three years, student enrollment has been at the low end of the range. Assuming no major aberration takes place, OCC enrollment history suggests enrollment for the coming year will fall on or below the low point of the range. It is important to note that the this prediction is only based on past enrollment. Other factors, which may impact OCC enrollment, are not examined in this study.

Oakland Community College
College-Wide
Summer Enrollment Trends Analysis for Student Credit Hours (SCH)
(Summer 1990 Through Summer 1996)

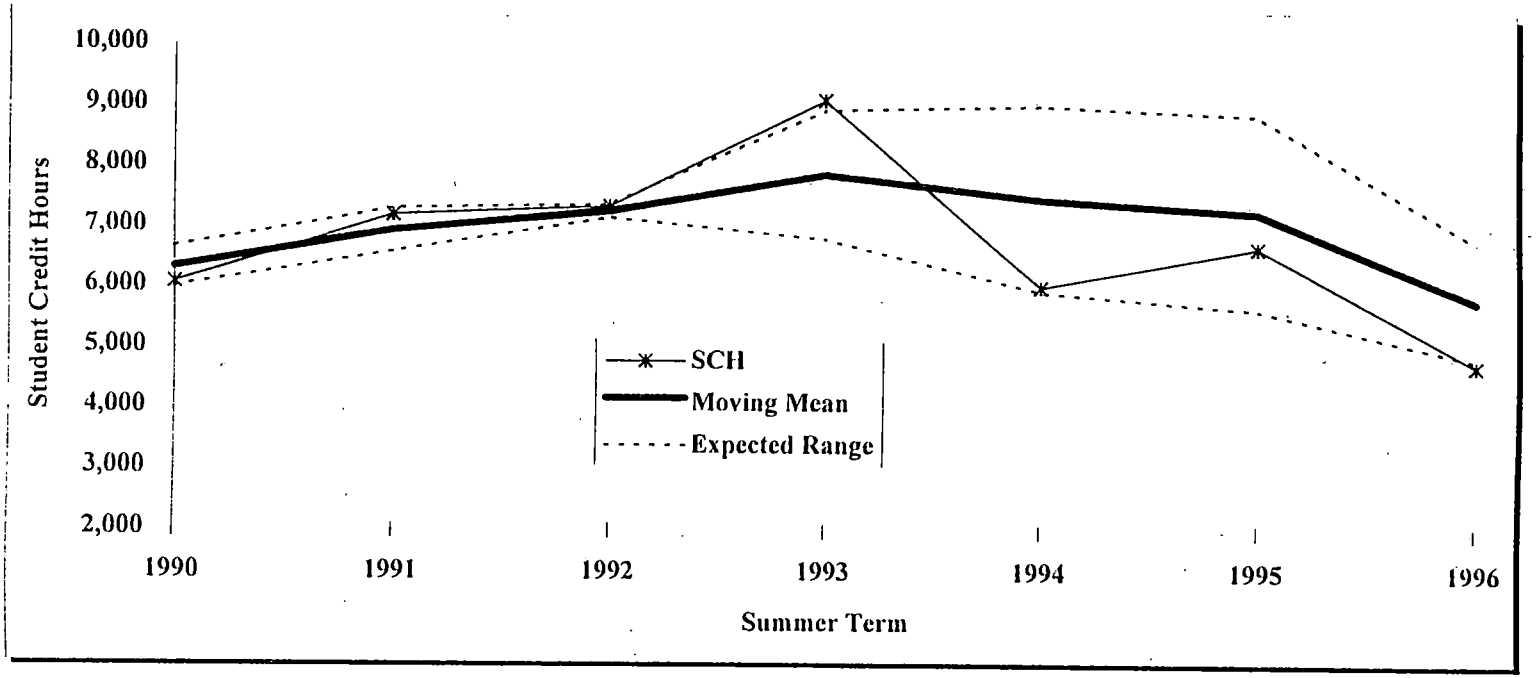
Summer	Student Credit Hours	Moving Mean	Standard Deviation	Expected Range High	Expected Range Low
1990	23,217	23,615	406.7	24,022	23,209
1991	25,506	24,251	1,160.6	25,412	23,091
1992	25,471	24,731	1,311.6	26,043	23,420
1993	25,253	25,410	137.3	25,547	25,273
1994	18,974	23,232	3,689.5	26,922	19,543
1995	19,902	21,376	3,389.0	24,765	17,987
1996	16,150	18,342	1,954.2	20,296	16,388



Source: OCC, Office of Institutional Planning & Analysis, 9/19/96

Oakland Community College
Auburn Hills Campus
Summer Enrollment Trends Analysis for Student Credit Hours (SCH)
(Summer 1990 Through Summer 1996)

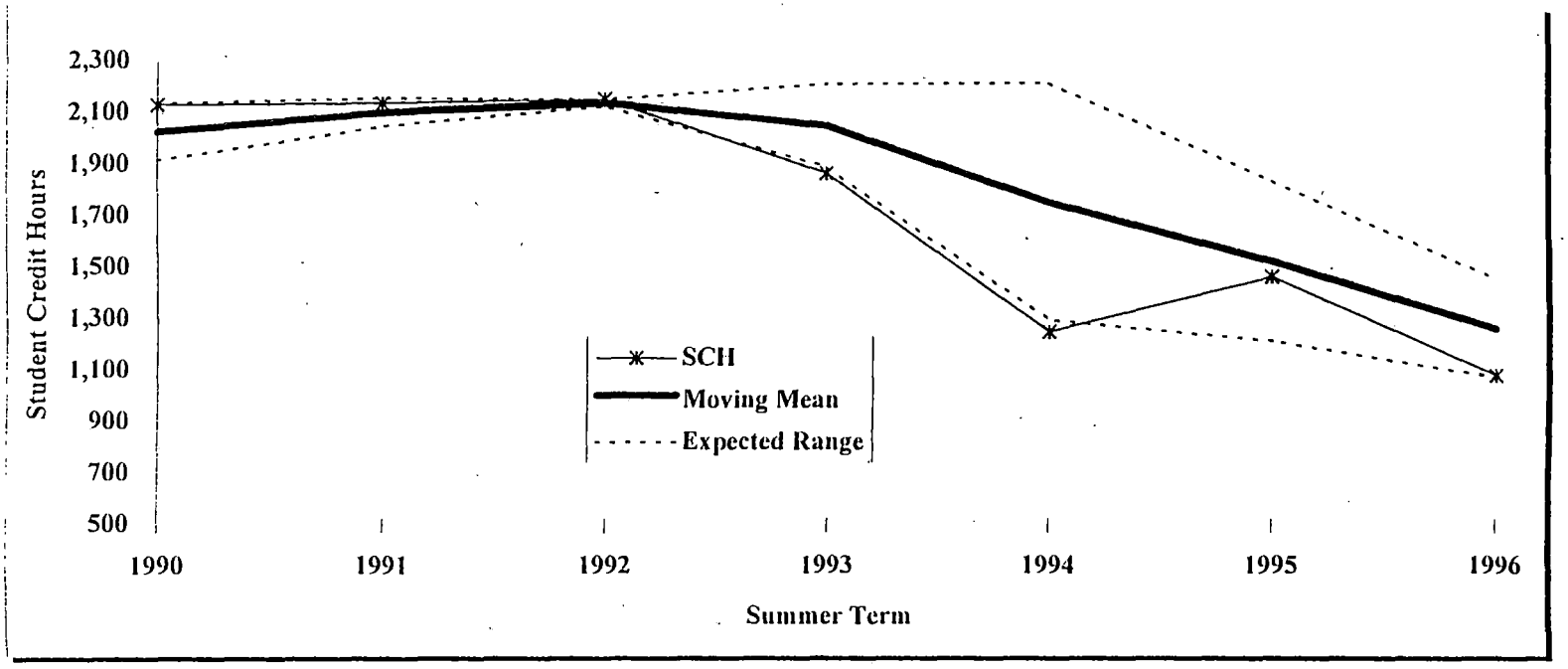
Summer	Student Credit Hours	Moving Mean	Standard Deviation	Expected Range High	Expected Range Low
1990	6,084	6,340	329.9	6,670	6,010
1991	7,216	6,964	356.7	7,321	6,608
1992	7,367	7,292	106.2	7,398	7,185
1993	9,132	7,905	1,065.1	8,970	6,840
1994	6,056	7,518	1,543.4	9,062	5,975
1995	6,725	7,304	1,617.6	8,922	5,687
1996	4,793	5,858	981.1	6,839	4,877



Source: OCC, Office of Institutional Planning & Analysis, 9/23/96

Oakland Community College
Highland Lakes Campus
Summer Enrollment Trends Analysis for Student Credit Hours (SCH)
(Summer 1990 Through Summer 1996)

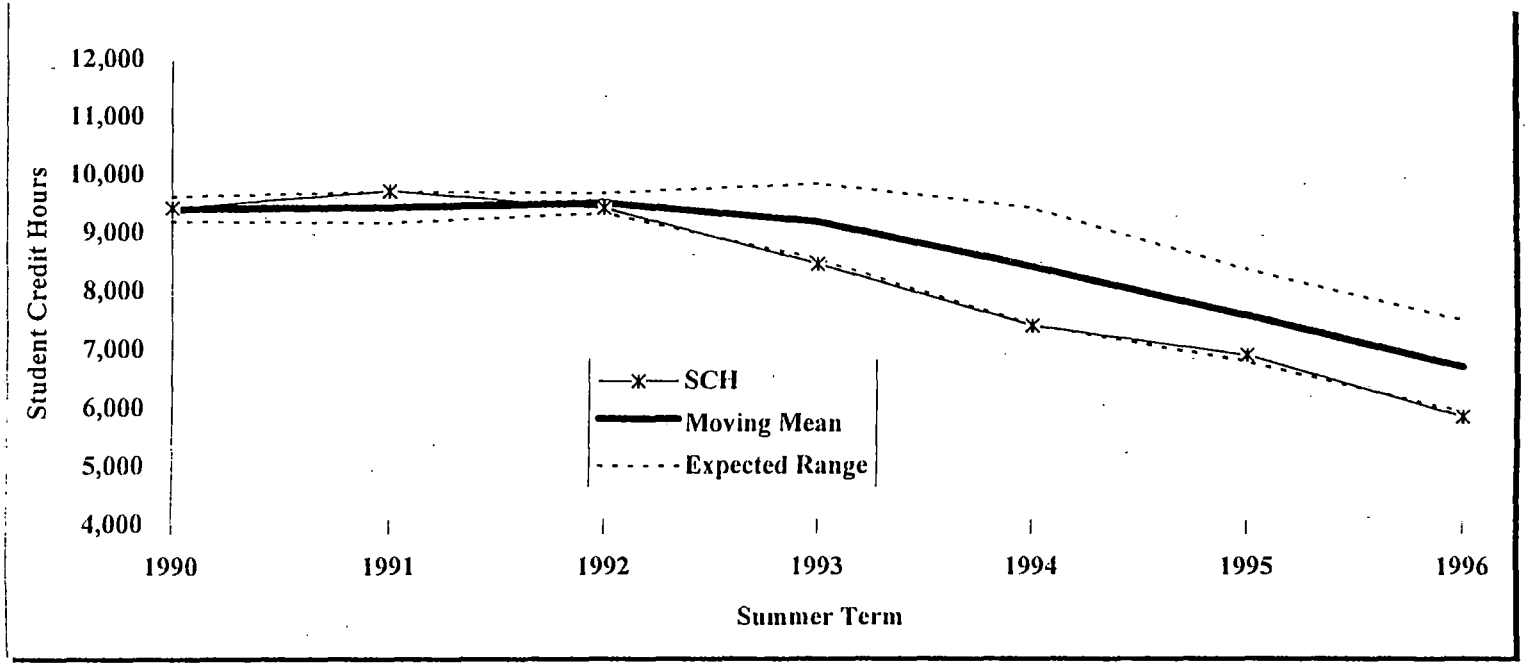
Summer	Student Credit Hours	Moving Mean	Standard Deviation	Expected Range High	Expected Range Low
1990	2,134	2,030	111.1	2,141	1,919
1991	2,142	2,107	54.4	2,161	2,052
1992	2,158	2,145	12.2	2,157	2,132
1993	1,872	2,057	160.7	2,218	1,897
1994	1,257	1,762	460.4	2,223	1,302
1995	1,473	1,534	312.0	1,846	1,222
1996	1,090	1,273	192.0	1,465	1,081



Source: OCC, Office of Institutional Planning & Analysis, 9/23/96

Oakland Community College
Orchard Ridge Campus
Summer Enrollment Trends Analysis for Student Credit Hours (SCH)
(Summer 1990 Through Summer 1996)

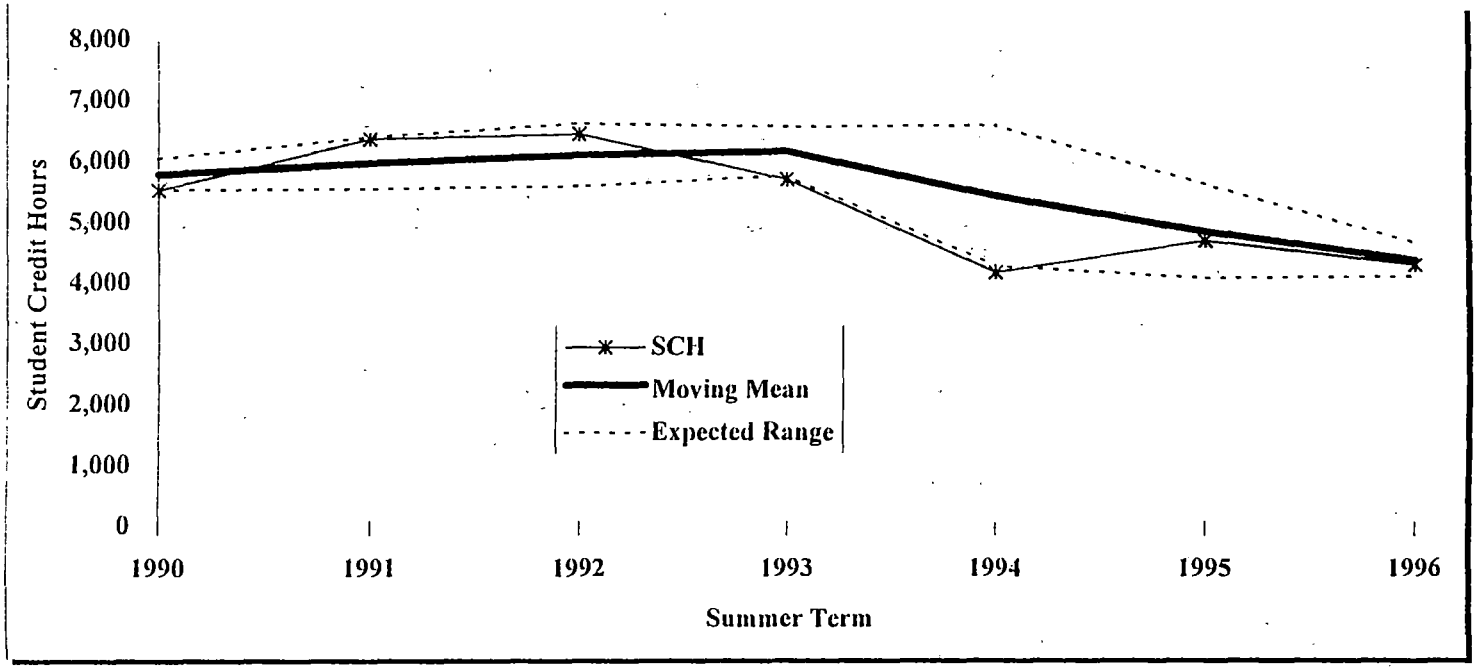
Summer	Student Credit Hours	Moving Mean	Standard Deviation	Expected Range High	Expected Range Low
1990	9,449	9,434	212.9	9,647	9,221
1991	9,754	9,472	270.8	9,743	9,202
1992	9,466	9,556	171.4	9,728	9,385
1993	8,509	9,243	651.8	9,895	8,591
1994	7,451	8,475	1,007.9	9,483	7,467
1995	6,960	7,640	791.6	8,432	6,848
1996	5,910	6,774	787.2	7,561	5,986



Source: OCC, Office of Institutional Planning & Analysis, 9/19/96

Oakland Community College
Royal Oak & Southfield Campus
Summer Enrollment Trends Analysis for Student Credit Hours (SCH)
(Summer 1990 Through Summer 1996)

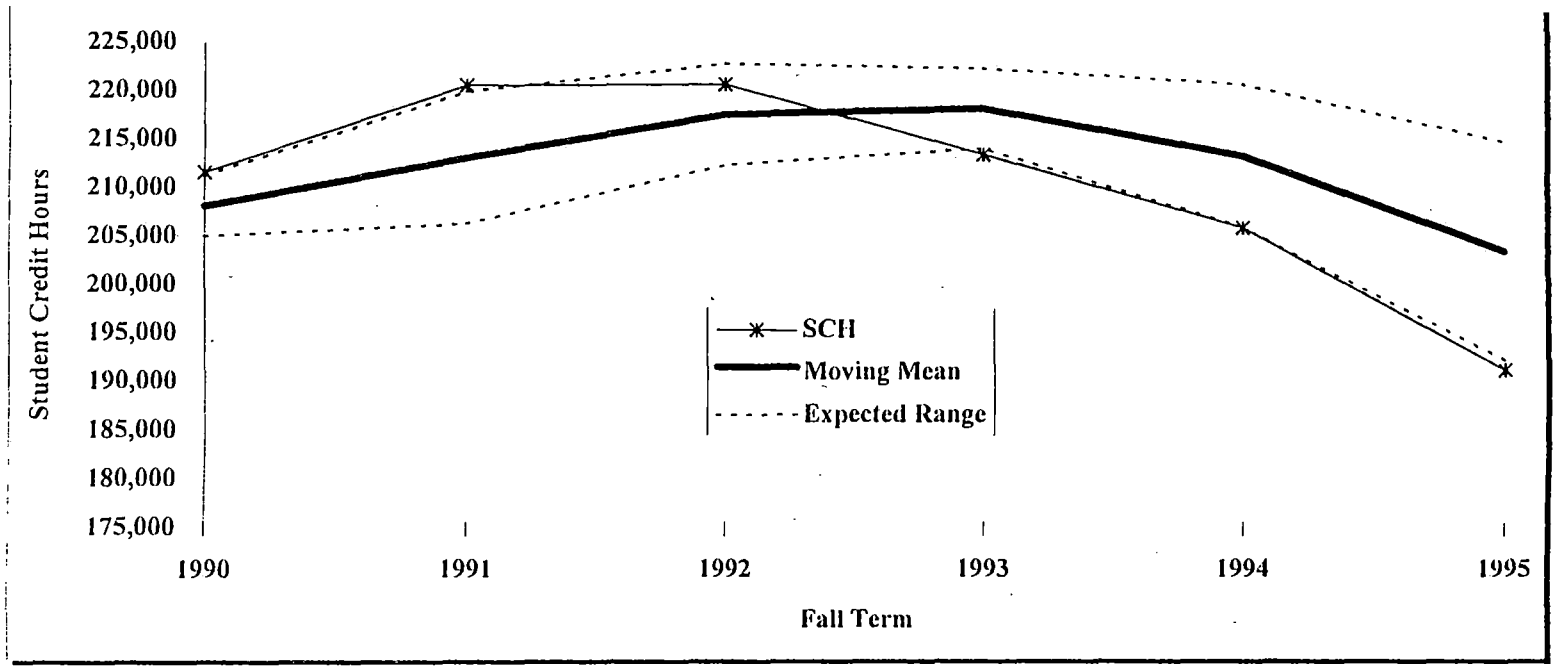
Summer	Student Credit Hours	Moving Mean	Standard Deviation	Expected Range High	Expected Range Low
1990	5,550	5,811	255.2	6,067	5,556
1991	6,394	6,001	425.0	6,426	5,576
1992	6,480	6,141	513.9	6,655	5,627
1993	5,740	6,205	404.7	6,609	5,800
1994	4,210	5,477	1,157.7	6,634	4,319
1995	4,744	4,898	776.5	5,675	4,121
1996	4,357	4,437	275.8	4,713	4,161



Source: OCC, Office of Institutional Planning & Analysis, 9/19/96

Oakland Community College
College-Wide
Fall Enrollment Trends Analysis for Student Credit Hours (SCH)
(Fall 1990 Through Fall 1995)

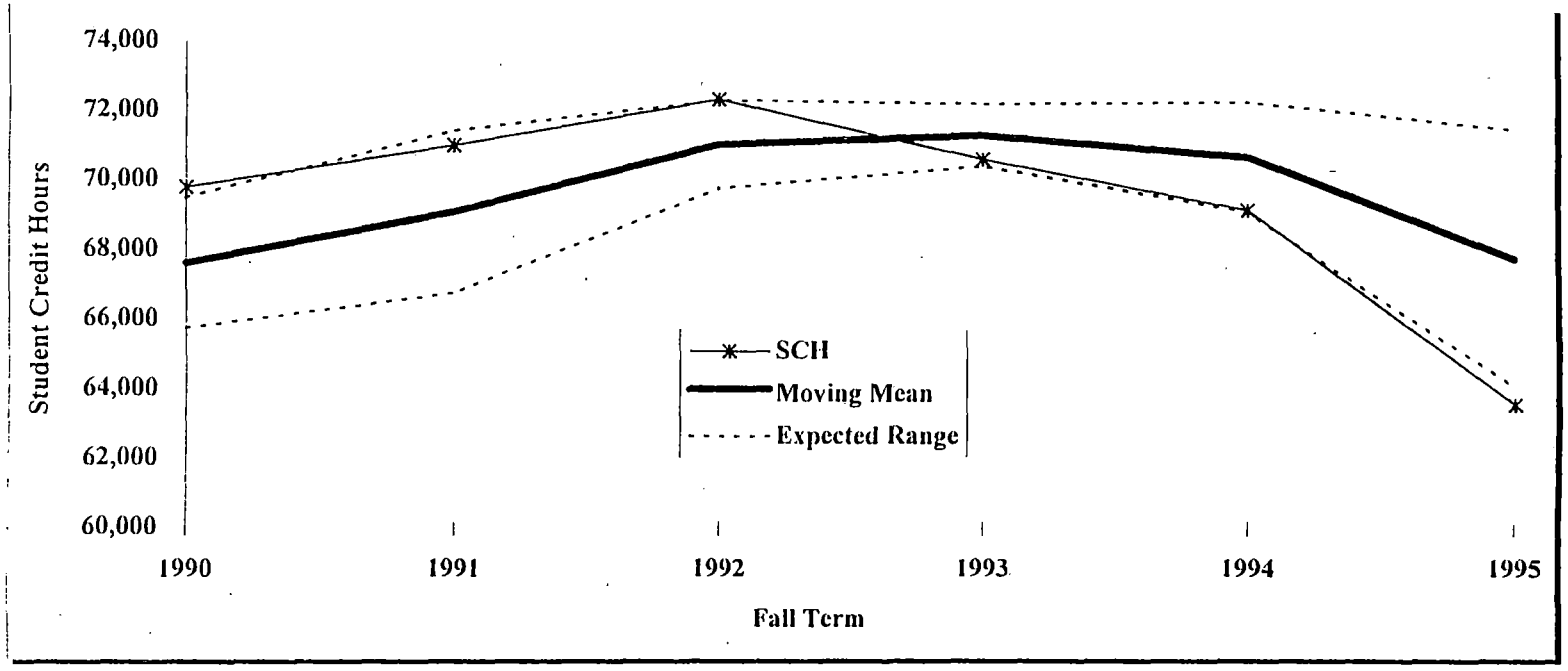
Fall	Student Credit Hours	Moving Mean	Standard Deviation	Expected Range High	Expected Range Low
1990	211,666	208,199	3,121.5	211,320	205,078
1991	220,655	213,213	6,801.3	220,015	206,412
1992	220,813	217,711	5,236.0	222,947	212,475
1993	213,587	218,352	4,127.1	222,479	214,225
1994	206,044	213,481	7,385.1	220,866	206,096
1995	191,366	203,666	11,299.8	214,965	192,366



Source: OCC, Office of Institutional Planning & Analysis, 9/19/96

Oakland Community College
Auburn Hills Campus
Fall Enrollment Trends Analysis for Student Credit Hours (SCH)
(Fall 1990 Through Fall 1995)

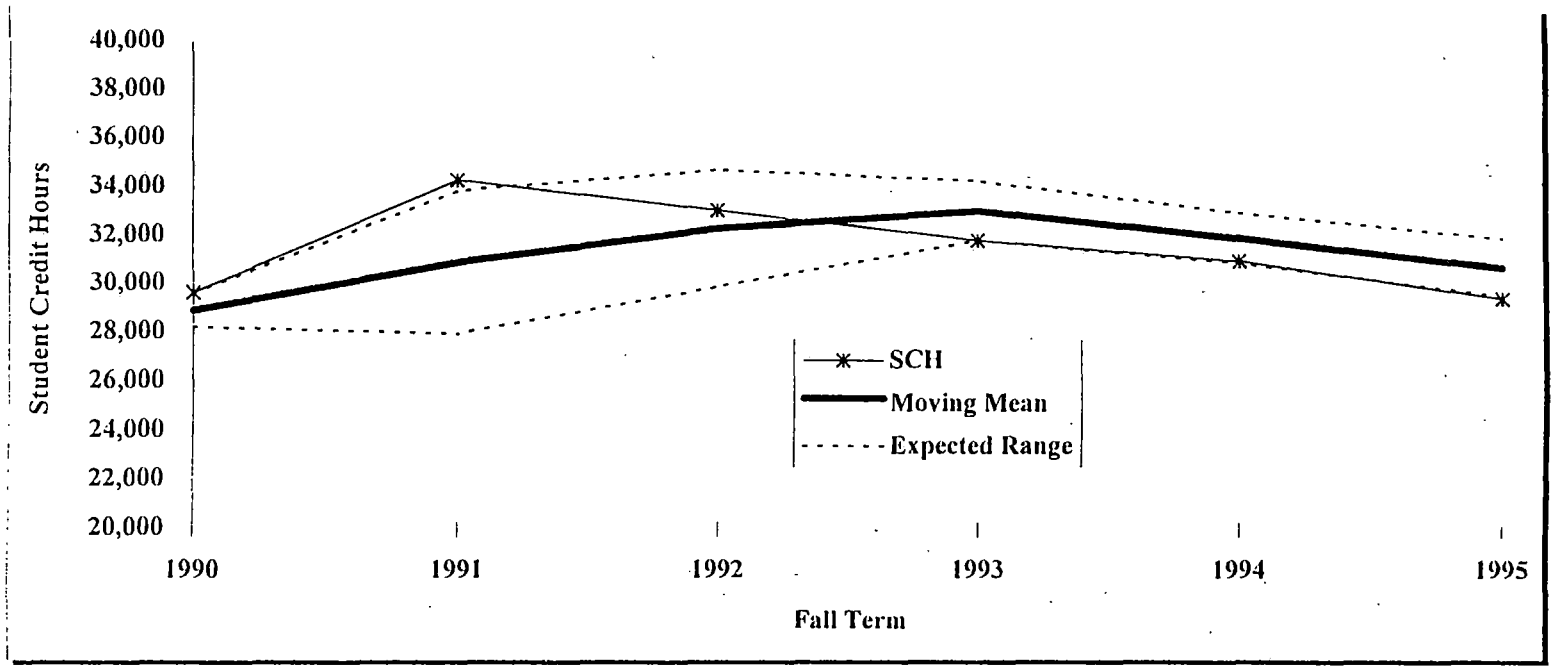
Fall	Student Credit Hours	Moving Mean	Standard Deviation	Expected Range High	Expected Range Low
1990	69,815	67,647	1,877.6	69,525	65,770
1991	71,031	69,124	2,331.2	71,455	66,792
1992	72,353	71,066	1,269.4	72,336	69,797
1993	70,641	71,342	897.3	72,239	70,444
1994	69,195	70,730	1,580.9	72,311	69,149
1995	63,612	67,816	3,711.9	71,528	64,104



Source: OCC, Office of Institutional Planning & Analysis, 9/23/96

Oakland Community College
Highland Lakes Campus
Fall Enrollment Trends Analysis for Student Credit Hours (SCH)
(Fall 1990 Through Fall 1995)

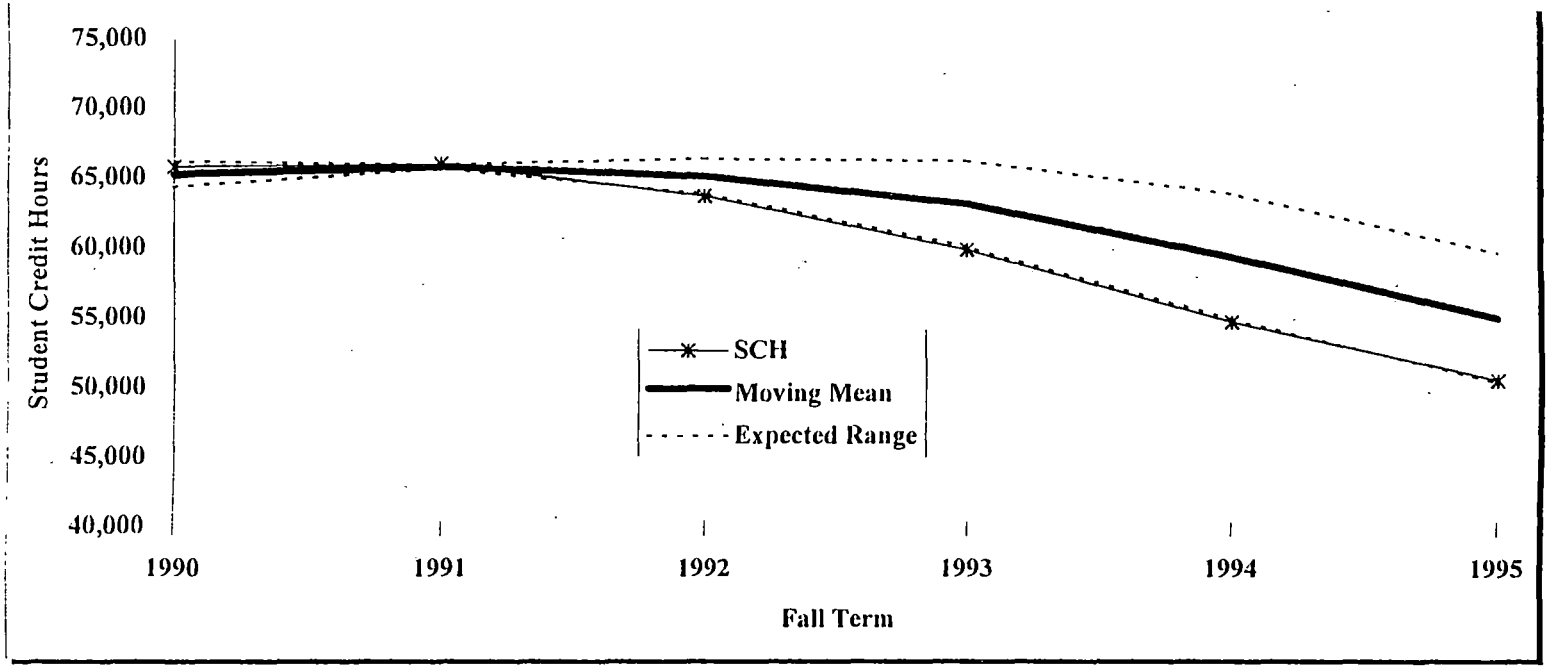
				Expected Range	
Fall	Student Credit Hours	Moving Mean	Standard Deviation	High	Low
1990	29,676	28,943	689.7	29,632	28,253
1991	34,314	30,945	2,947.1	33,892	27,998
1992	33,097	32,362	2,404.7	34,767	29,958
1993	31,873	33,095	1,220.5	34,315	31,874
1994	31,051	32,007	1,029.6	33,037	30,977
1995	29,525	30,816	1,191.5	32,008	29,625



Source: OCC, Office of Institutional Planning & Analysis, 9/23/96

Oakland Community College
Orchard Ridge Campus
Fall Enrollment Trends Analysis for Student Credit Hours (SCH)
(Fall 1990 Through Fall 1995)

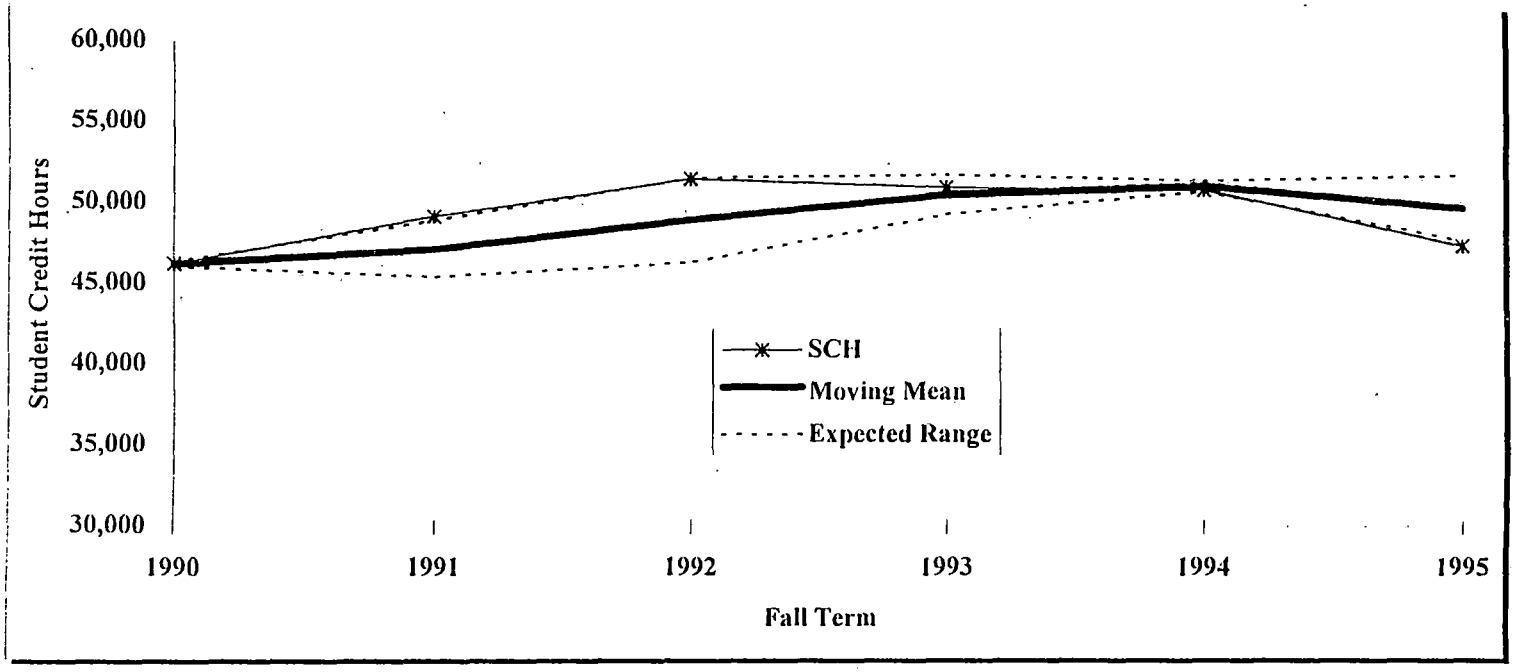
Fall	Student Credit Hours	Moving Mean	Standard Deviation	Expected Range High	Expected Range Low
1990	65,886	65,349	910.8	66,260	64,438
1991	66,132	65,960	149.1	66,109	65,811
1992	63,853	65,290	1,250.8	66,541	64,040
1993	60,061	63,349	3,066.8	66,415	60,282
1994	54,908	59,607	4,489.7	64,097	55,118
1995	50,771	55,247	4,654.3	59,901	50,592



Source: OCC, Office of Institutional Planning & Analysis, 9/19/96

Oakland Community College
Royal Oak & Southfield Campus
Fall Enrollment Trends Analysis for Student Credit Hours (SCH)
(Fall 1990 Through Fall 1995)

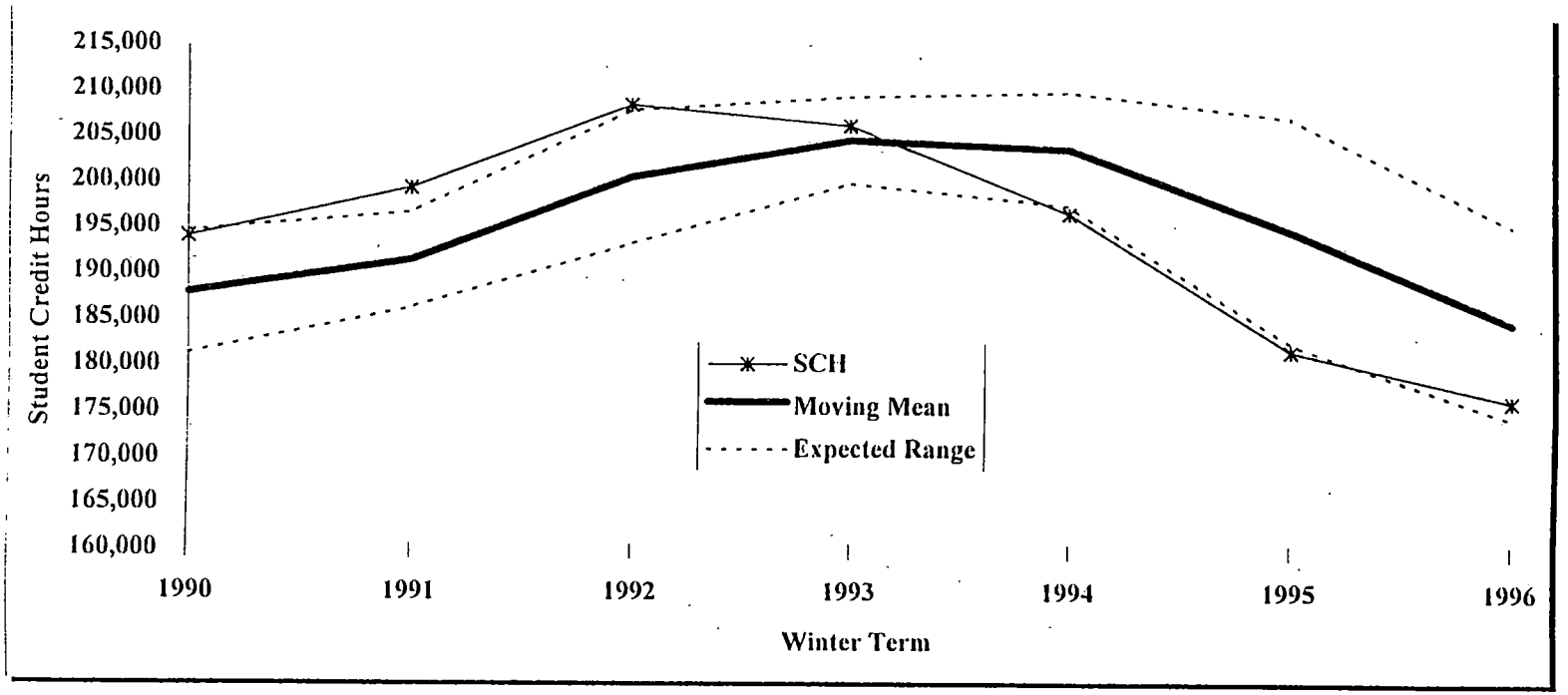
Fall	Credit Hours	Moving Mean	Standard Deviation	Expected Range High	Expected Range Low
1990	46,289	46,260	161.9	46,422	46,098
1991	49,178	47,184	1,729.5	48,914	45,455
1992	51,510	48,992	2,615.4	51,608	46,377
1993	51,012	50,567	1,228.1	51,795	49,339
1994	50,890	51,137	328.5	51,466	50,809
1995	47,458	49,787	2,017.6	51,804	47,769



Source: OCC, Office of Institutional Planning & Analysis, 9/19/96

Oakland Community College
College-Wide
Winter Enrollment Trends Analysis for Student Credit Hours (SCH)
(Winter 1990 Through Winter 1996)

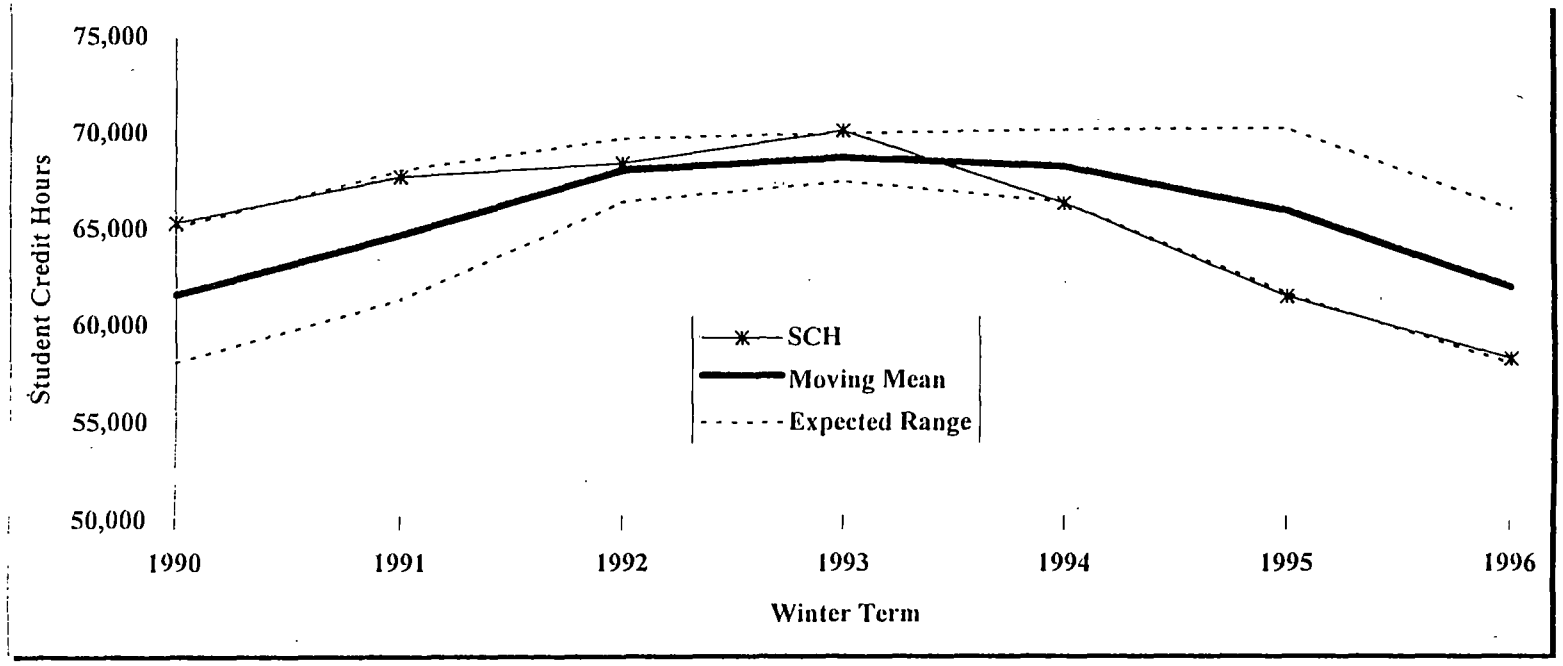
Winter	Student Credit Hours	Moving Mean	Standard Deviation	Expected Range High	Expected Range Low
1990	194,165	188,086	6,671.9	194,758	181,414
1991	199,535	191,656	5,195.5	196,851	186,460
1992	208,650	200,783	7,322.7	208,106	193,461
1993	206,457	204,881	4,757.6	209,638	200,123
1994	196,901	204,003	6,247.2	210,250	197,755
1995	181,935	195,098	12,360.1	207,458	182,738
1996	176,537	185,124	10,550.0	195,674	174,574



Source: OCC, Office of Institutional Planning & Analysis, 9/19/96

Oakland Community College
Auburn Hills Campus
Winter Enrollment Trends Analysis for Student Credit Hours (SCH)
(Winter 1990 Through Winter 1996)

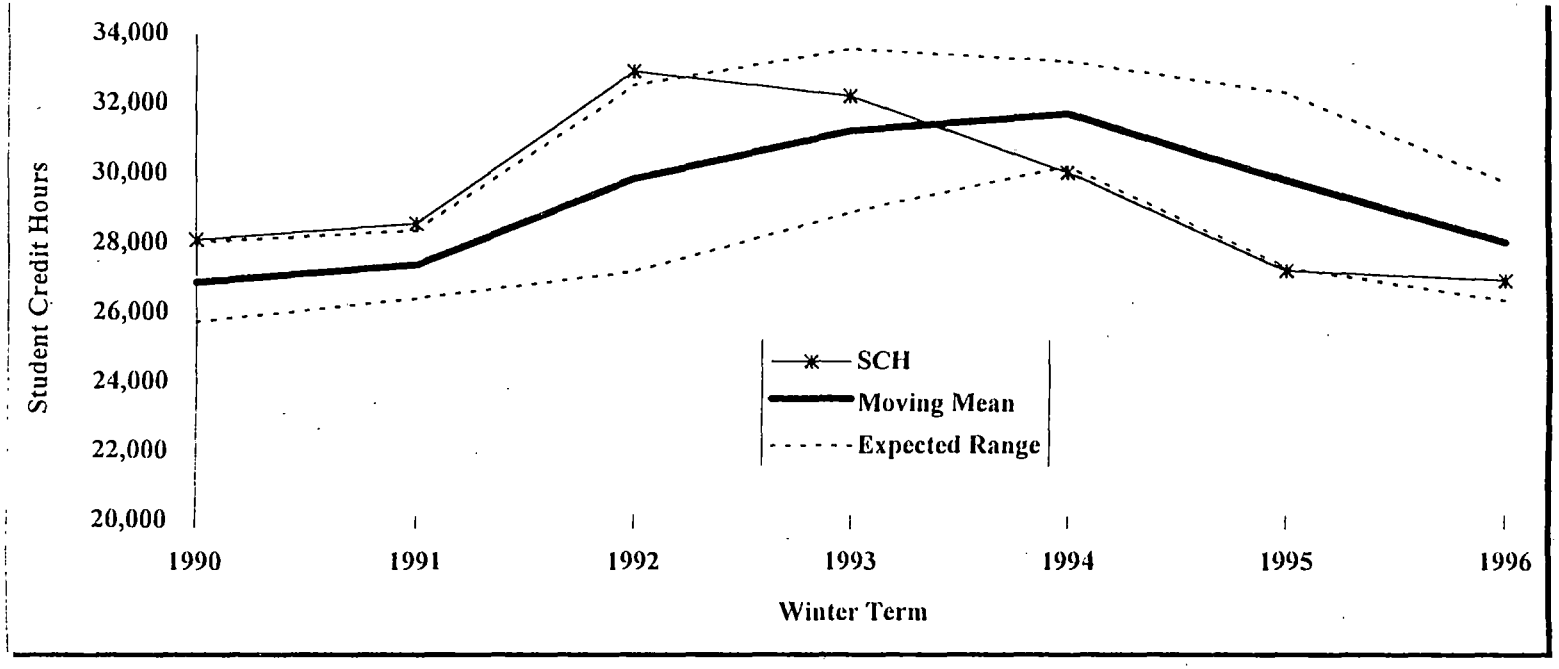
Winter	Student Credit Hours	Moving Mean	Standard Deviation	Expected Range High	Expected Range Low
1990	65,405	61,681	3,504.4	65,185	58,177
1991	67,836	64,810	3,362.7	68,173	61,448
1992	68,555	68,196	1,650.7	69,846	66,545
1993	70,269	68,887	1,249.9	70,137	67,637
1994	66,498	68,441	1,888.1	70,329	66,553
1995	61,687	66,151	4,301.5	70,453	61,850
1996	58,502	62,229	4,025.5	66,254	58,204



Source: OCC, Office of Institutional Planning & Analysis, 9/23/96

Oakland Community College
Highland Lakes Campus
Winter Enrollment Trends Analysis for Student Credit Hours (SCH)
(Winter 1990 Through Winter 1996)

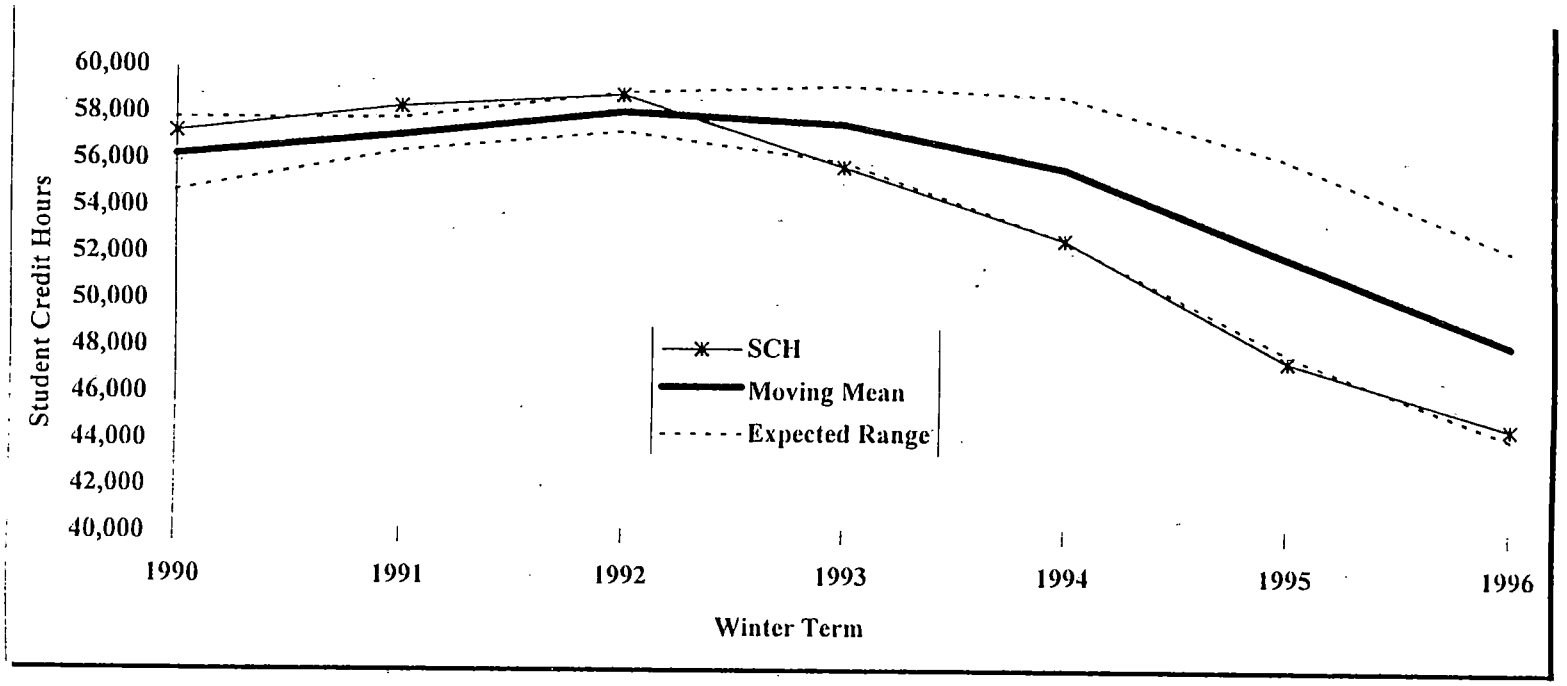
				Expected Range	
Winter	Student Credit Hours	Moving Mean	Standard Deviation	High	Low
1990	28,134	26,907	1,146.8	28,054	25,761
1991	28,607	27,430	978.5	28,408	26,452
1992	32,970	29,904	2,666.0	32,570	27,238
1993	32,273	31,283	2,343.8	33,627	28,940
1994	30,089	31,777	1,503.1	33,280	30,274
1995	27,286	29,883	2,499.9	32,383	27,383
1996	27,019	28,131	1,700.6	29,832	26,431



Source: OCC, Office of Institutional Planning & Analysis, 9/23/96

Oakland Community College
Orchard Ridge Campus
Winter Enrollment Trends Analysis for Student Credit Hours (SCH)
(Winter 1990 Through Winter 1996)

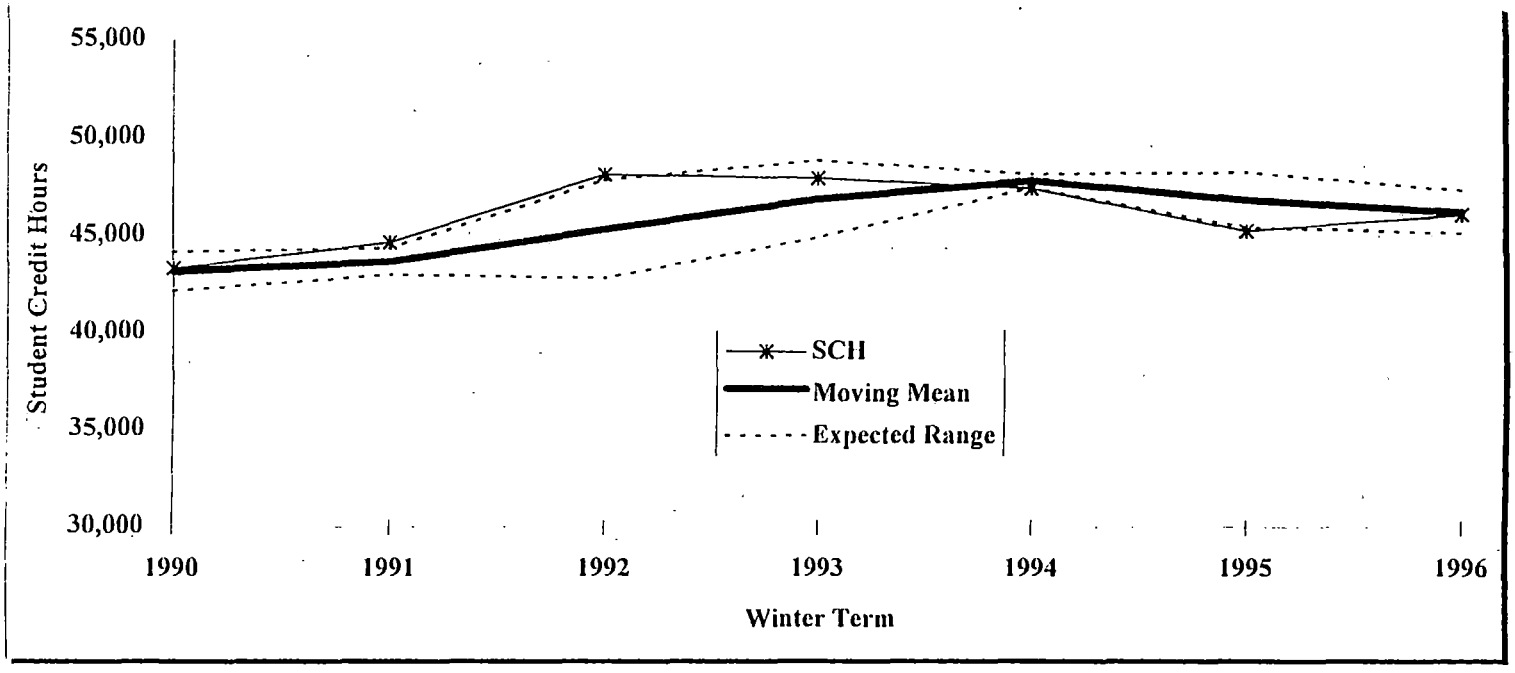
Winter	Student Credit Hours	Moving Mean	Standard Deviation	Expected Range High	Expected Range Low
1990	57,300	56,317	1,557.1	57,874	54,760
1991	58,403	57,215	691.1	57,906	56,524
1992	58,935	58,213	834.0	59,047	57,379
1993	55,900	57,746	1,620.7	59,367	56,125
1994	52,800	55,878	3,067.6	58,946	52,811
1995	47,602	52,101	4,193.0	56,294	47,908
1996	44,775	48,392	4,070.5	52,463	44,322



Source: OCC, Office of Institutional Planning & Analysis, 9/19/96

Oakland Community College
Royal Oak & Southfield Campus
Winter Enrollment Trends Analysis for Student Credit Hours (SCH)
(Winter 1990 Through Winter 1996)

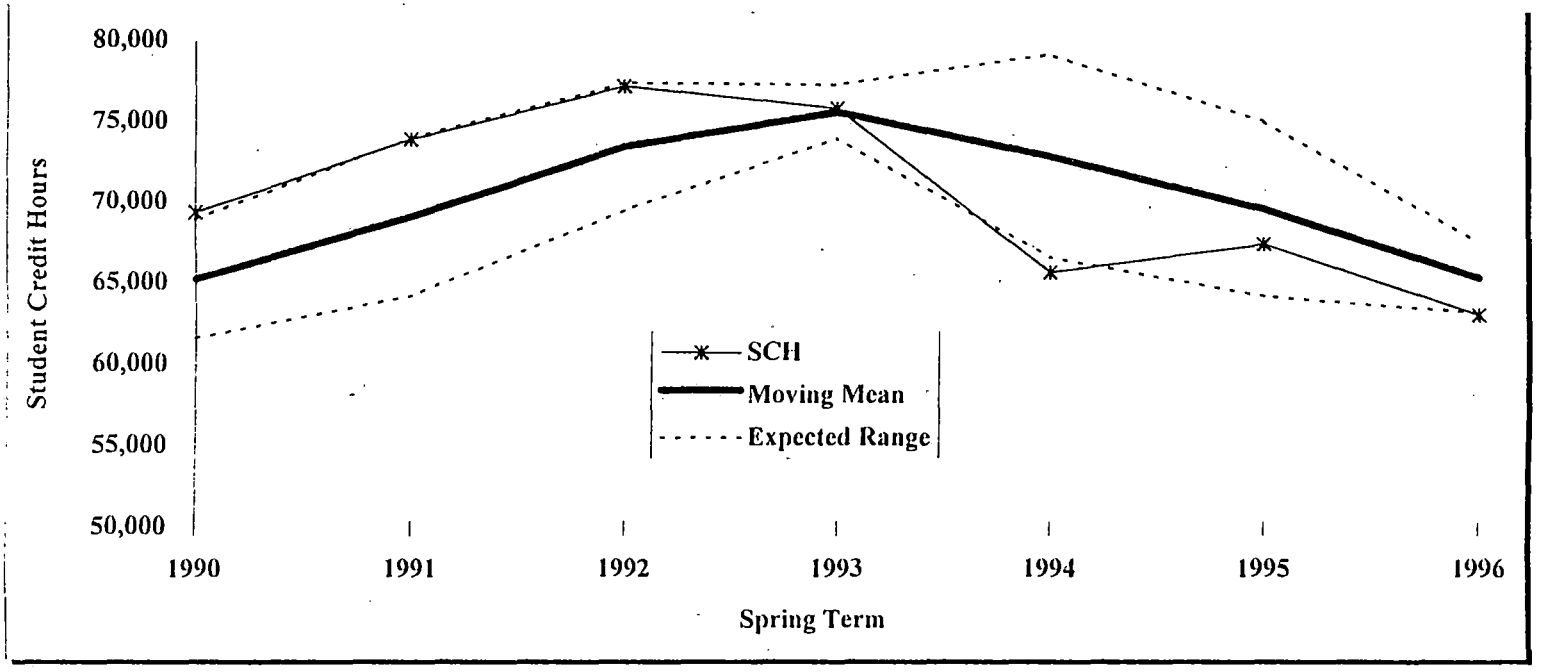
Winter	Credit Hours	Moving Mean	Standard Deviation	Expected Range High	Expected Range Low
1990	43,326	43,181	1,000.0	44,181	42,181
1991	44,689	43,713	683.6	44,397	43,029
1992	48,190	45,402	2,509.1	47,911	42,893
1993	48,015	46,965	1,972.7	48,937	44,992
1994	47,514	47,906	350.9	48,257	47,555
1995	45,360	46,963	1,410.7	48,374	45,552
1996	46,241	46,372	1,082.9	47,455	45,289



Source: OCC, Office of Institutional Planning & Analysis, 9/19/96

Oakland Community College
College-Wide
Spring Enrollment Trends Analysis for Student Credit Hours (SCH)
(Spring 1990 Through Spring 1996)

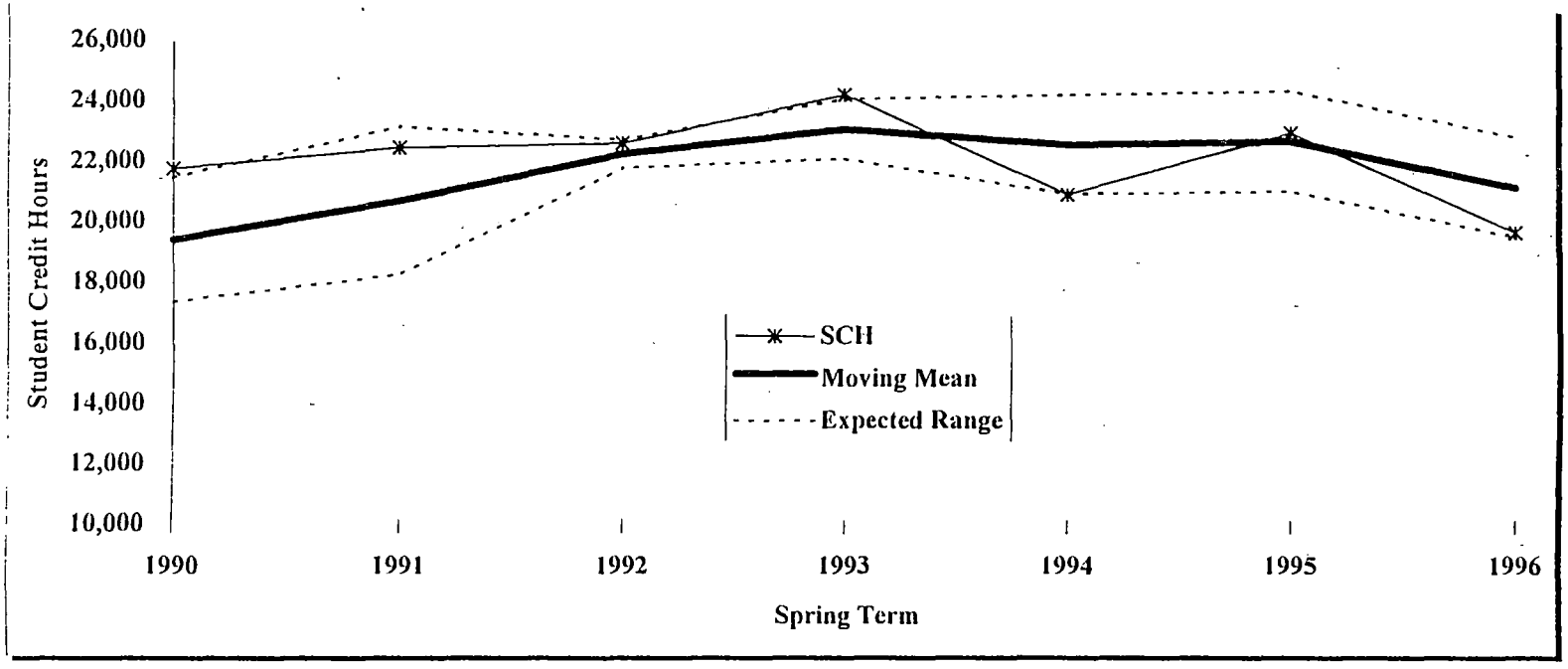
Spring	Student Credit Hours	Moving Mean	Standard Deviation	Expected Range High	Expected Range Low
1990	69,418	65,317	3,675.0	68,992	61,642
1991	73,987	69,205	4,891.6	74,097	64,314
1992	77,298	73,568	3,956.5	77,524	69,611
1993	75,976	75,754	1,666.3	77,420	74,087
1994	65,813	73,029	6,284.1	79,313	66,745
1995	67,593	69,794	5,427.3	75,221	64,367
1996	63,238	65,548	2,189.6	67,738	63,358



Source: OCC, Office of Institutional Planning & Analysis, 9/19/96

Oakland Community College
Auburn Hills Campus
Spring Enrollment Trends Analysis for Student Credit Hours (SCH)
(Spring 1990 Through Spring 1996)

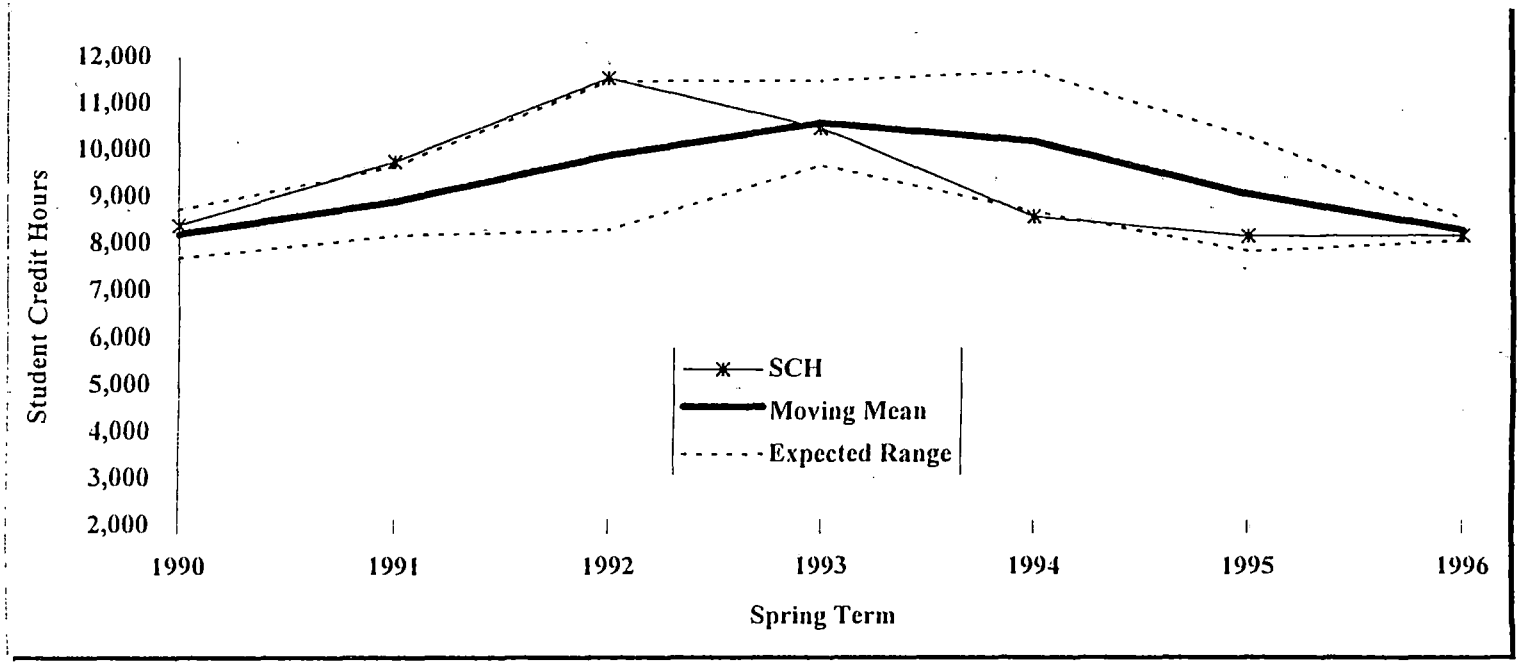
Spring	Student Credit Hours	Moving Mean	Standard Deviation	Expected Range High	Expected Range Low
1990	21,814	19,450	2,068.6	21,519	17,382
1991	22,515	20,766	2,447.0	23,213	18,319
1992	22,682	22,337	460.5	22,797	21,876
1993	24,296	23,164	983.6	24,148	22,181
1994	21,018	22,665	1,639.2	24,304	21,026
1995	23,070	22,795	1,656.4	24,451	21,138
1996	19,790	21,293	1,657.2	22,950	19,635



Source: OCC, Office of Institutional Planning & Analysis, 9/23/96

Oakland Community College
Highland Lakes Campus
Spring Enrollment Trends Analysis for Student Credit Hours (SCH)
(Spring 1990 Through Spring 1996)

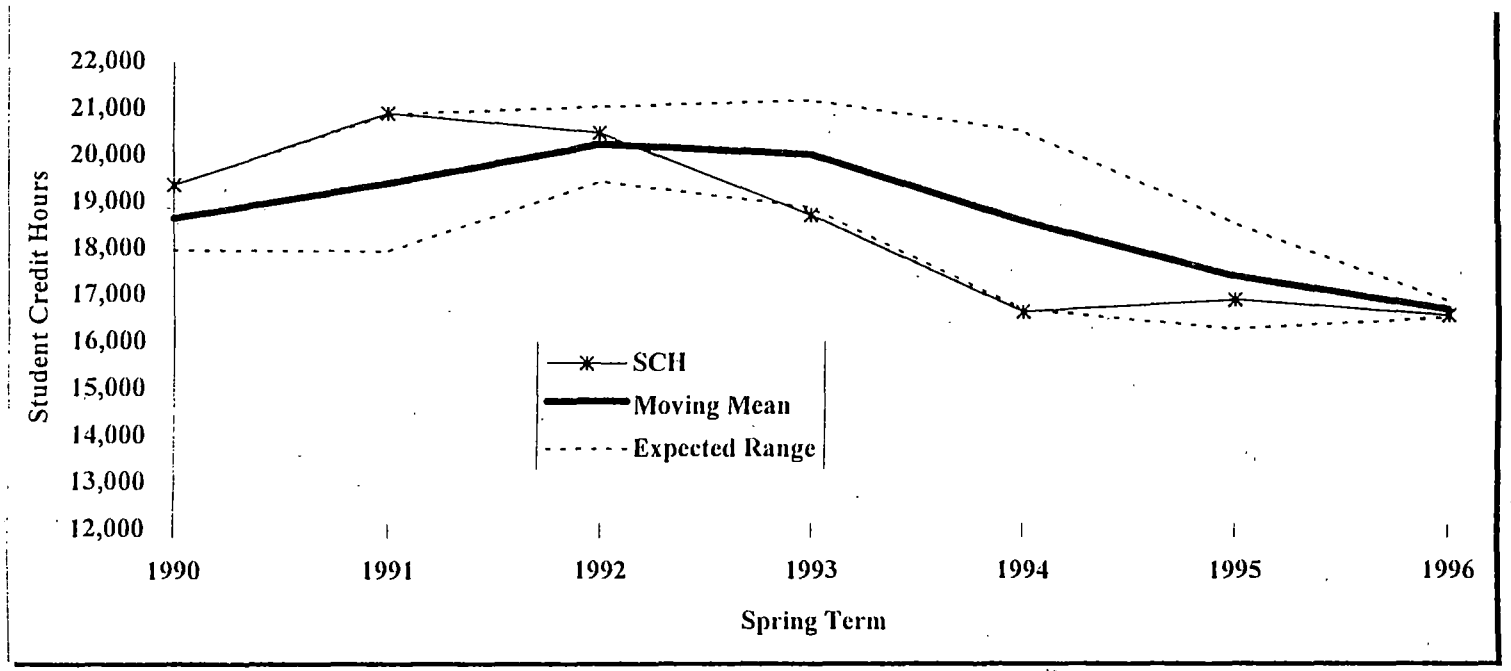
Spring	Student Credit Hours	Moving Mean	Standard Deviation	Expected Range High	Expected Range Low
1990	8,410	8,225	515.4	8,741	7,710
1991	9,783	8,939	738.9	9,678	8,200
1992	11,587	9,927	1,593.4	11,520	8,333
1993	10,523	10,631	906.8	11,538	9,724
1994	8,627	10,246	1,499.4	11,745	8,746
1995	8,217	9,122	1,230.2	10,353	7,892
1996	8,238	8,361	230.9	8,592	8,130



Source: OCC, Office of Institutional Planning & Analysis, 9/23/96

Oakland Community College
Orchard Ridge Campus
Spring Enrollment Trends Analysis for Student Credit Hours (SCH)
(Spring 1990 Through Spring 1996)

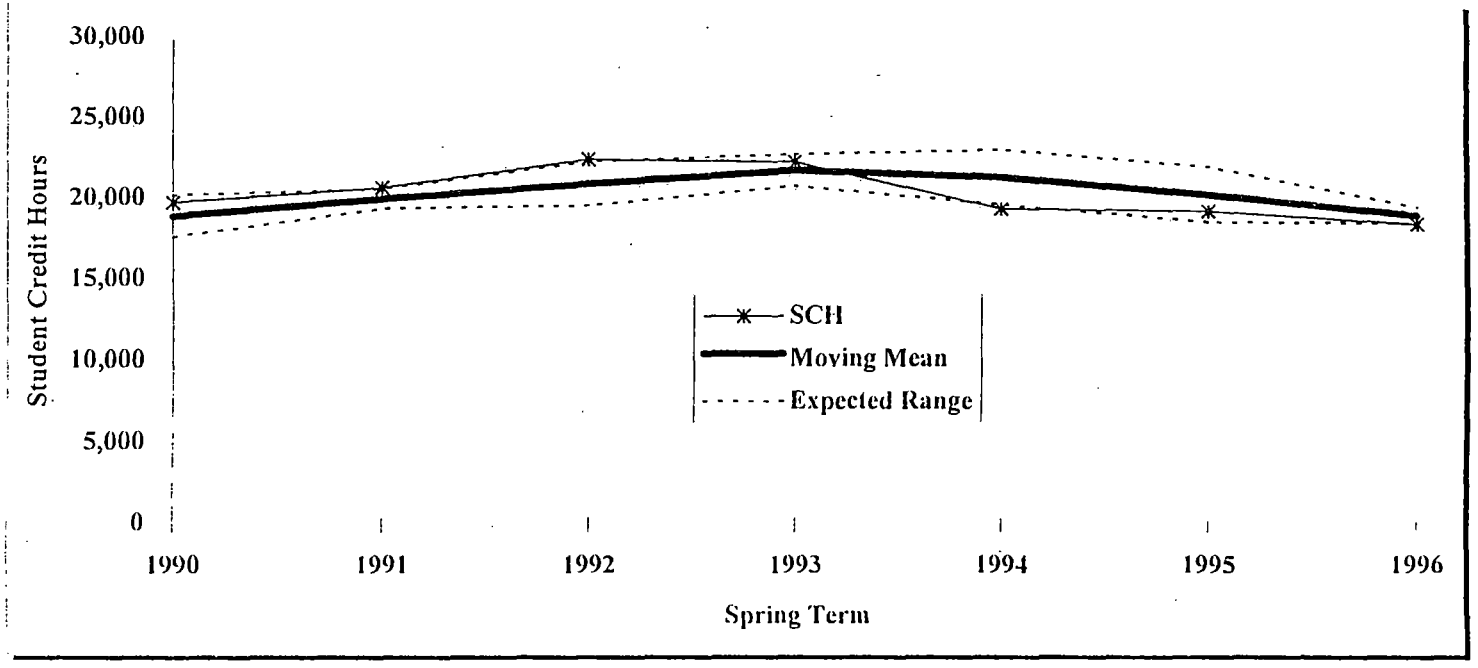
Spring	Student Credit Hours	Moving Mean	Standard Deviation	Expected Range High	Expected Range Low
1990	19,383	18,679	695.2	19,374	17,983
1991	20,929	19,435	1,468.7	20,904	17,966
1992	20,512	20,275	799.9	21,075	19,475
1993	18,763	20,068	1,149.2	21,217	18,919
1994	16,675	18,650	1,921.0	20,571	16,729
1995	16,941	17,460	1,136.5	18,596	16,323
1996	16,618	16,745	172.4	16,917	16,572



Source: OCC, Office of Institutional Planning & Analysis, 9/19/96

Oakland Community College
Royal Oak & Southfield Campus
Spring Enrollment Trends Analysis for Student Credit Hours (SCH)
(Spring 1990 Through Spring 1996)

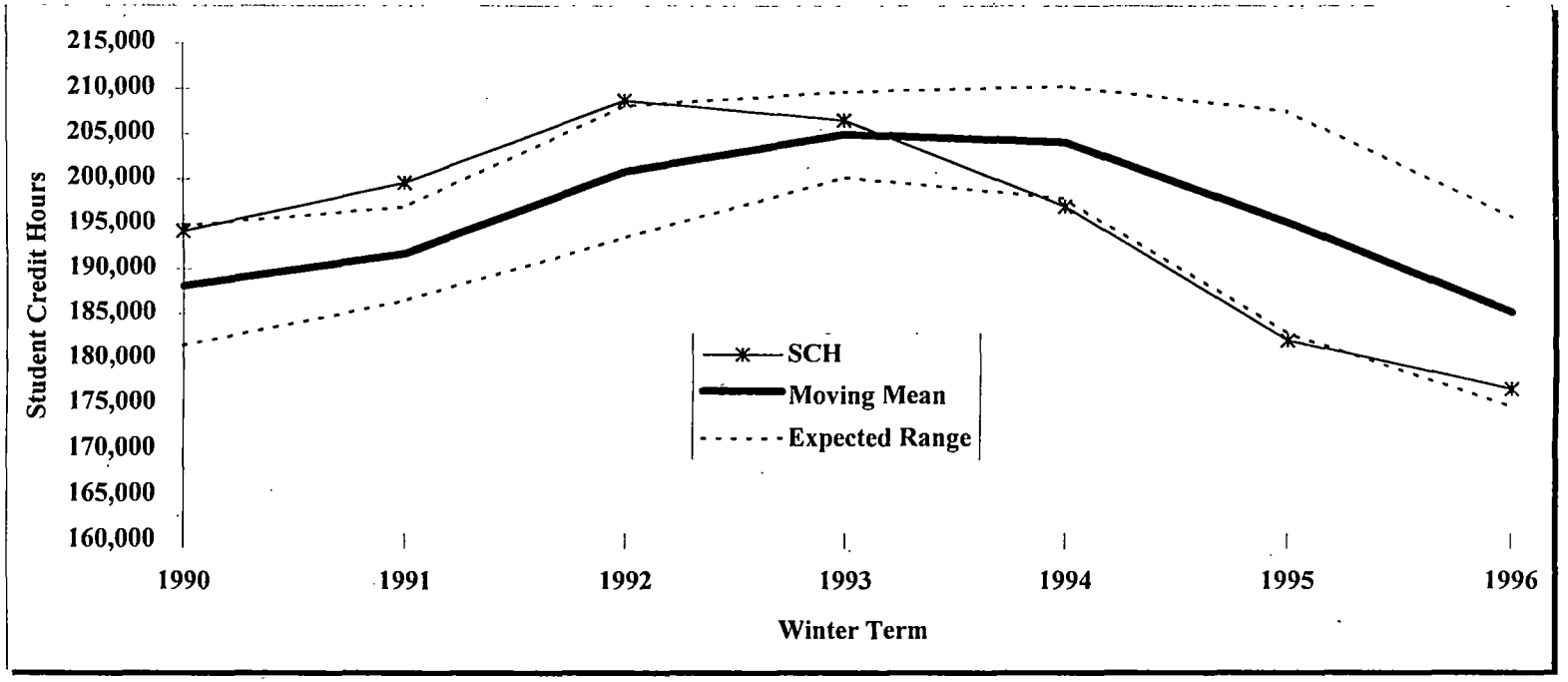
Spring	Credit Hours	Moving Mean	Standard Deviation	Expected Range High	Expected Range Low
1990	19,811	18,963	1,311.6	20,274	17,651
1991	20,760	20,065	608.7	20,674	19,457
1992	22,517	21,029	1,373.0	22,402	19,656
1993	22,394	21,890	980.8	22,871	20,910
1994	19,493	21,468	1,711.5	23,180	19,756
1995	19,365	20,417	1,713.0	22,130	18,704
1996	18,592	19,150	487.5	19,637	18,663



Source: OCC, Office of Institutional Planning & Analysis, 9/19/96

Oakland Community College
College-Wide
Winter Enrollment Trends Analysis for Student Credit Hours (SCH)
(Winter 1990 Through Winter 1996)

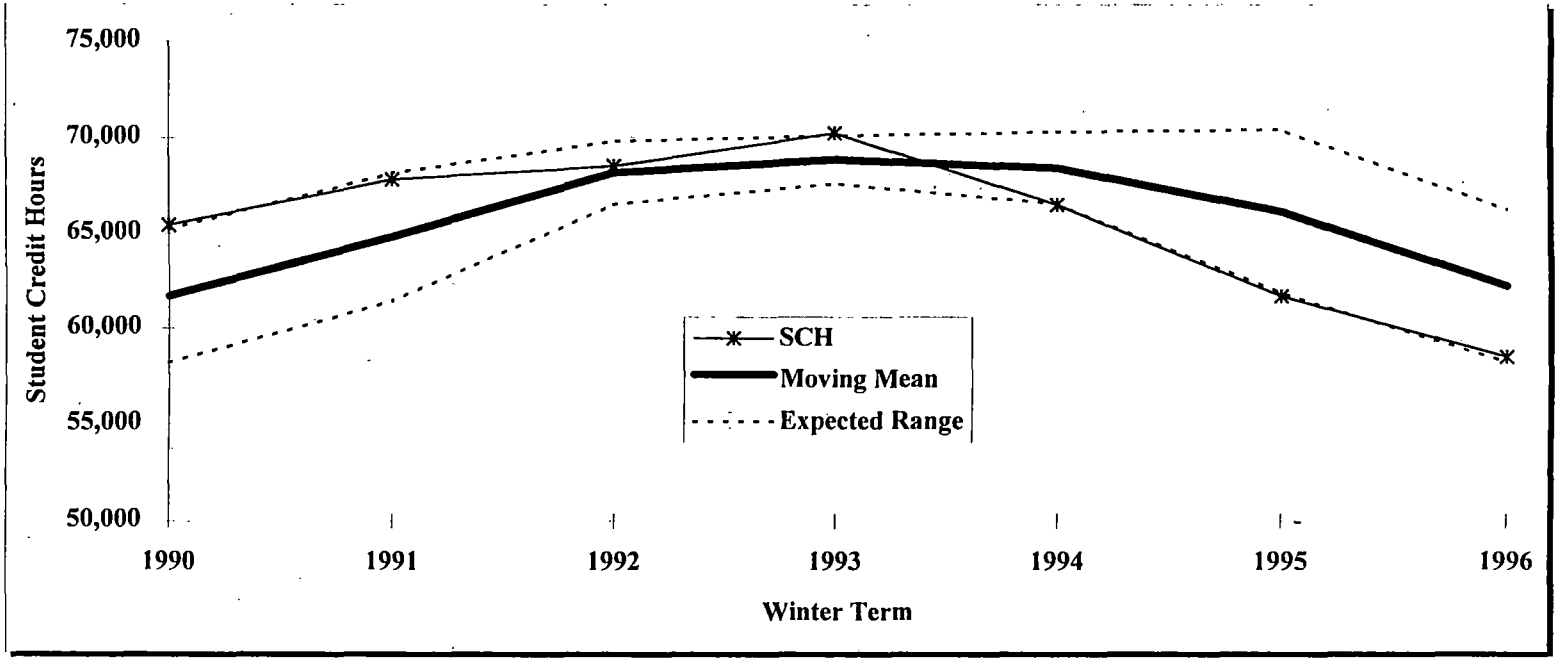
Winter	Student Credit Hours	Moving Mean	Standard Deviation	Expected Range High	Expected Range Low
1990	194,165	188,086	6,671.9	194,758	181,414
1991	199,535	191,656	5,195.5	196,851	186,460
1992	208,650	200,783	7,322.7	208,106	193,461
1993	206,457	204,881	4,757.6	209,638	200,123
1994	196,901	204,003	6,247.2	210,250	197,755
1995	181,935	195,098	12,360.1	207,458	182,738
1996	176,537	185,124	10,550.0	195,674	174,574



Source: OCC, Office of Institutional Planning & Analysis, 9/19/96

Oakland Community College
Auburn Hills Campus
Winter Enrollment Trends Analysis for Student Credit Hours (SCH)
(Winter 1990 Through Winter 1996)

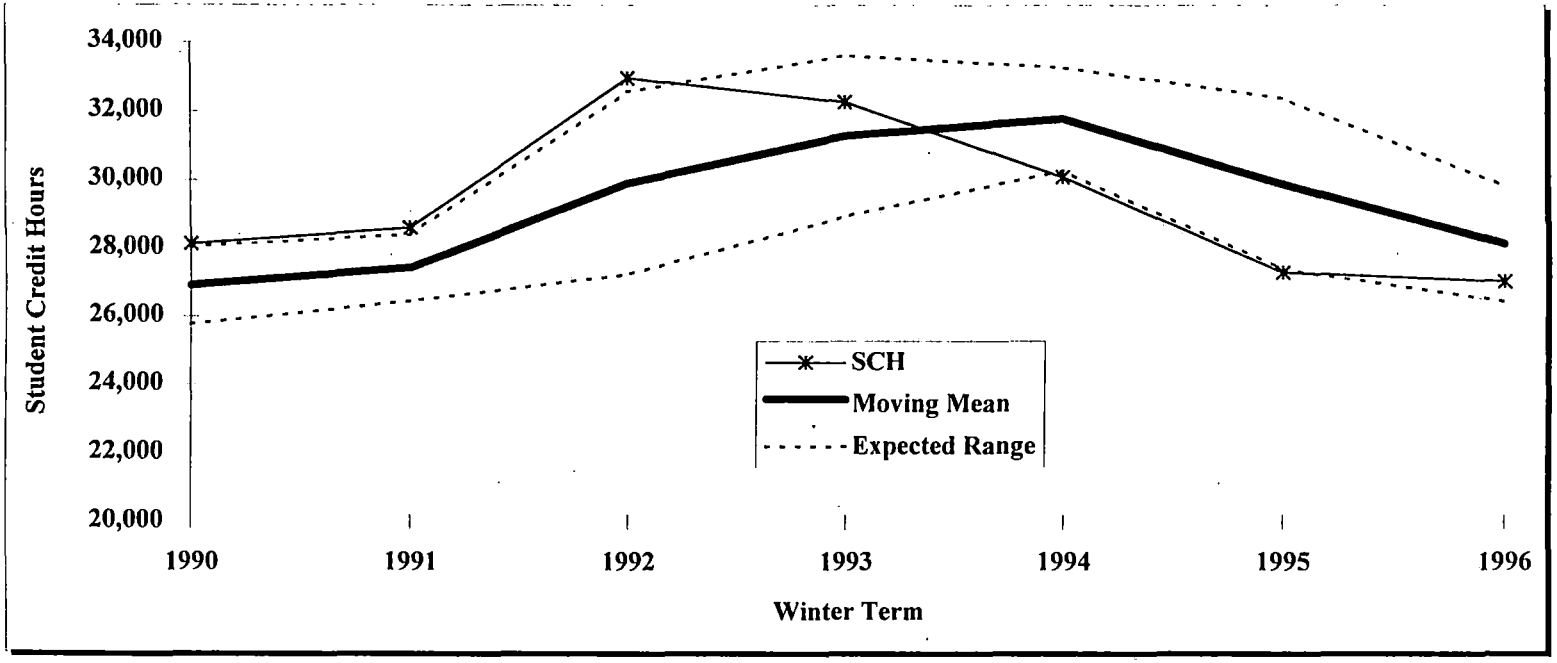
Winter	Student Credit Hours	Moving Mean	Standard Deviation	Expected Range High	Expected Range Low
1990	65,405	61,681	3,504.4	65,185	58,177
1991	67,836	64,810	3,362.7	68,173	61,448
1992	68,555	68,196	1,650.7	69,846	66,545
1993	70,269	68,887	1,249.9	70,137	67,637
1994	66,498	68,441	1,888.1	70,329	66,553
1995	61,687	66,151	4,301.5	70,453	61,850
1996	58,502	62,229	4,025.5	66,254	58,204



Source: OCC, Office of Institutional Planning & Analysis, 9/23/96

Oakland Community College
Highland Lakes Campus
Winter Enrollment Trends Analysis for Student Credit Hours (SCH)
(Winter 1990 Through Winter 1996)

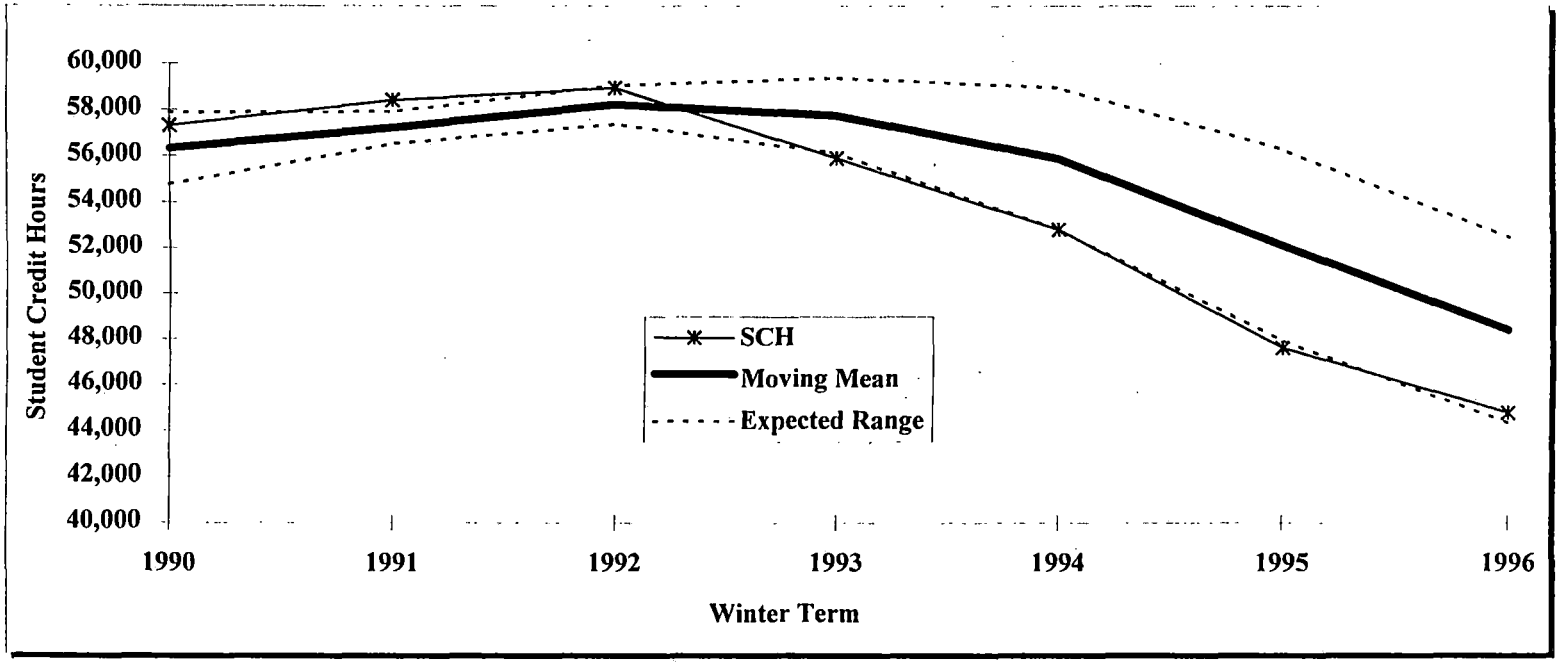
Winter	Student Credit Hours	Moving Mean	Standard Deviation	Expected Range High	Expected Range Low
1990	28,134	26,907	1,146.8	28,054	25,761
1991	28,607	27,430	978.5	28,408	26,452
1992	32,970	29,904	2,666.0	32,570	27,238
1993	32,273	31,283	2,343.8	33,627	28,940
1994	30,089	31,777	1,503.1	33,280	30,274
1995	27,286	29,883	2,499.9	32,383	27,383
1996	27,019	28,131	1,700.6	29,832	26,431



Source: OCC, Office of Institutional Planning & Analysis, 9/23/96

Oakland Community College
Orchard Ridge Campus
Winter Enrollment Trends Analysis for Student Credit Hours (SCH)
(Winter 1990 Through Winter 1996)

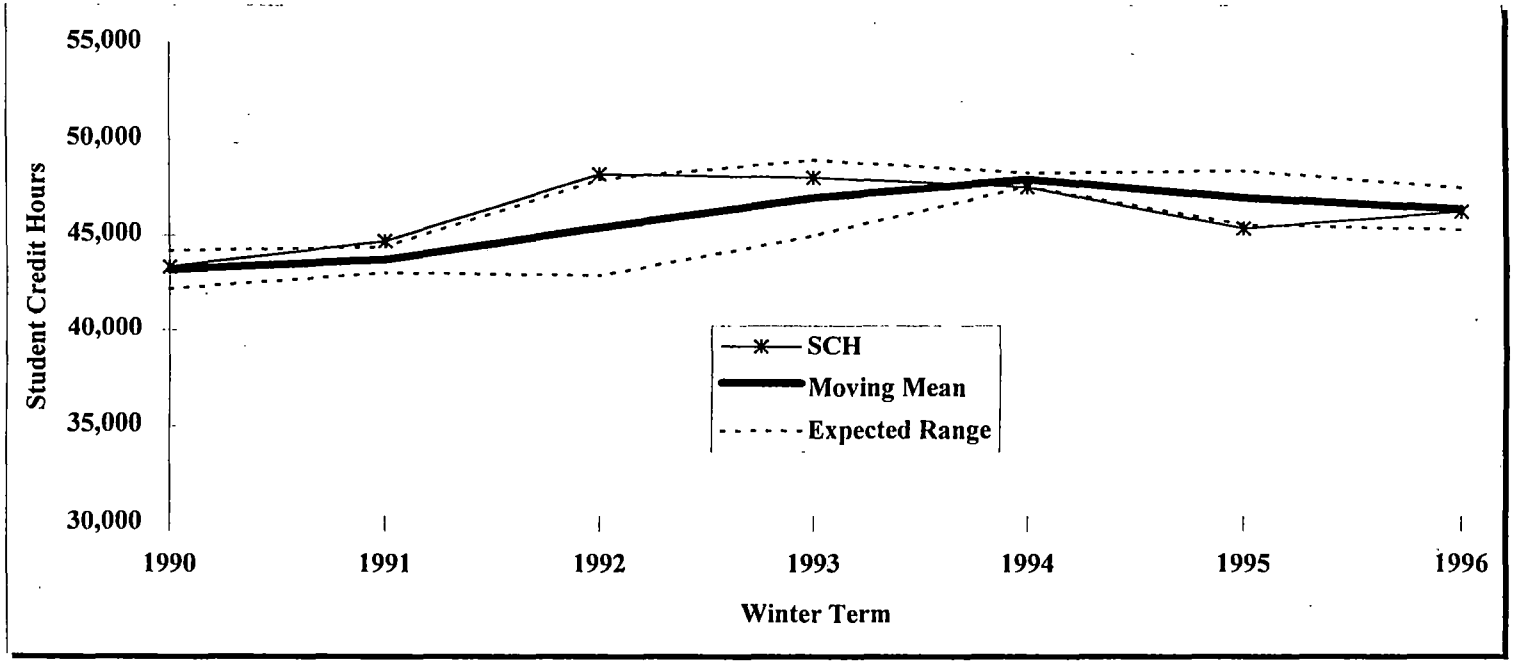
Winter	Student Credit Hours	Moving Mean	Standard Deviation	Expected Range High	Expected Range Low
1990	57,300	56,317	1,557.1	57,874	54,760
1991	58,403	57,215	691.1	57,906	56,524
1992	58,935	58,213	834.0	59,047	57,379
1993	55,900	57,746	1,620.7	59,367	56,125
1994	52,800	55,878	3,067.6	58,946	52,811
1995	47,602	52,101	4,193.0	56,294	47,908
1996	44,775	48,392	4,070.5	52,463	44,322



Source: OCC. Office of Institutional Planning & Analysis, 9/19/96

Oakland Community College
Royal Oak & Southfield Campus
Winter Enrollment Trends Analysis for Student Credit Hours (SCH)
(Winter 1990 Through Winter 1996)

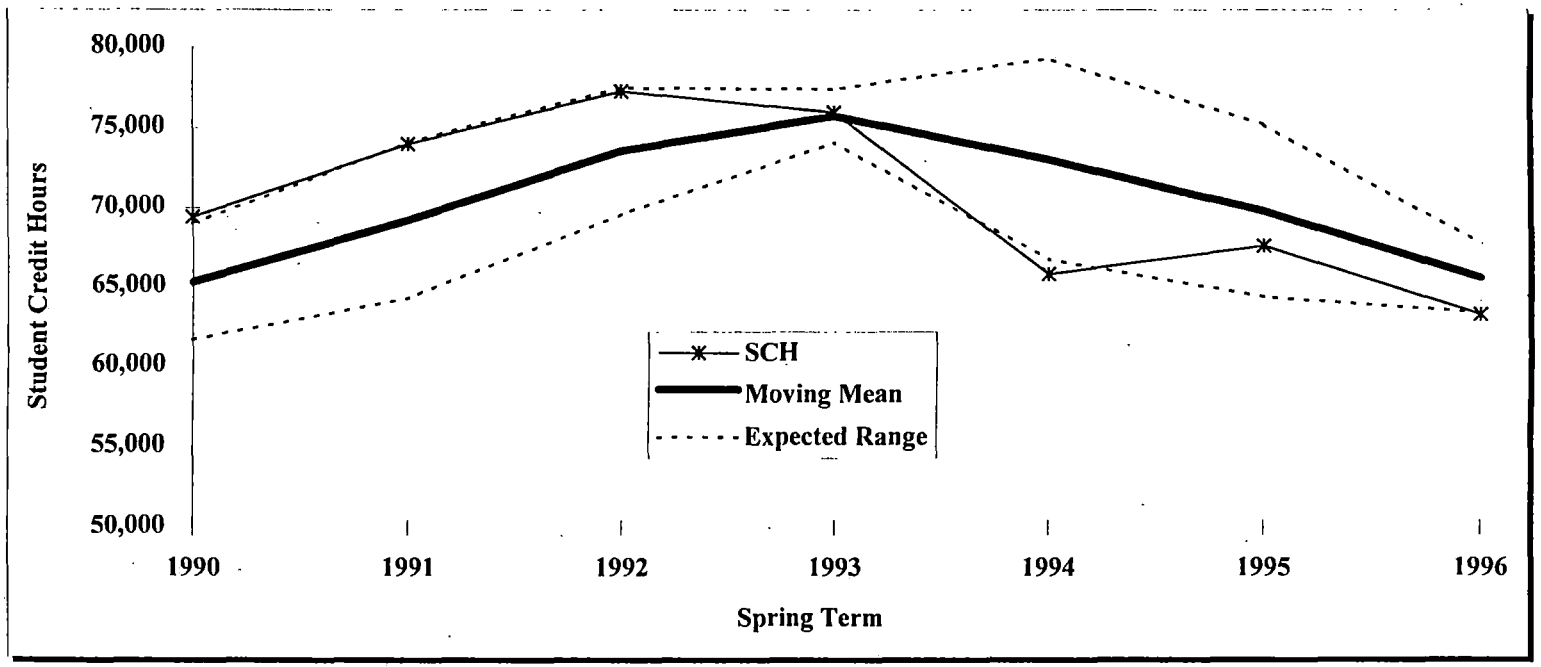
Winter	Credit Hours	Moving Mean	Standard Deviation	Expected Range High	Expected Range Low
1990	43,326	43,181	1,000.0	44,181	42,181
1991	44,689	43,713	683.6	44,397	43,029
1992	48,190	45,402	2,509.1	47,911	42,893
1993	48,015	46,965	1,972.7	48,937	44,992
1994	47,514	47,906	350.9	48,257	47,555
1995	45,360	46,963	1,410.7	48,374	45,552
1996	46,241	46,372	1,082.9	47,455	45,289



Source: OCC, Office of Institutional Planning & Analysis, 9/19/96

Oakland Community College
College-Wide
Spring Enrollment Trends Analysis for Student Credit Hours (SCH)
(Spring 1990 Through Spring 1996)

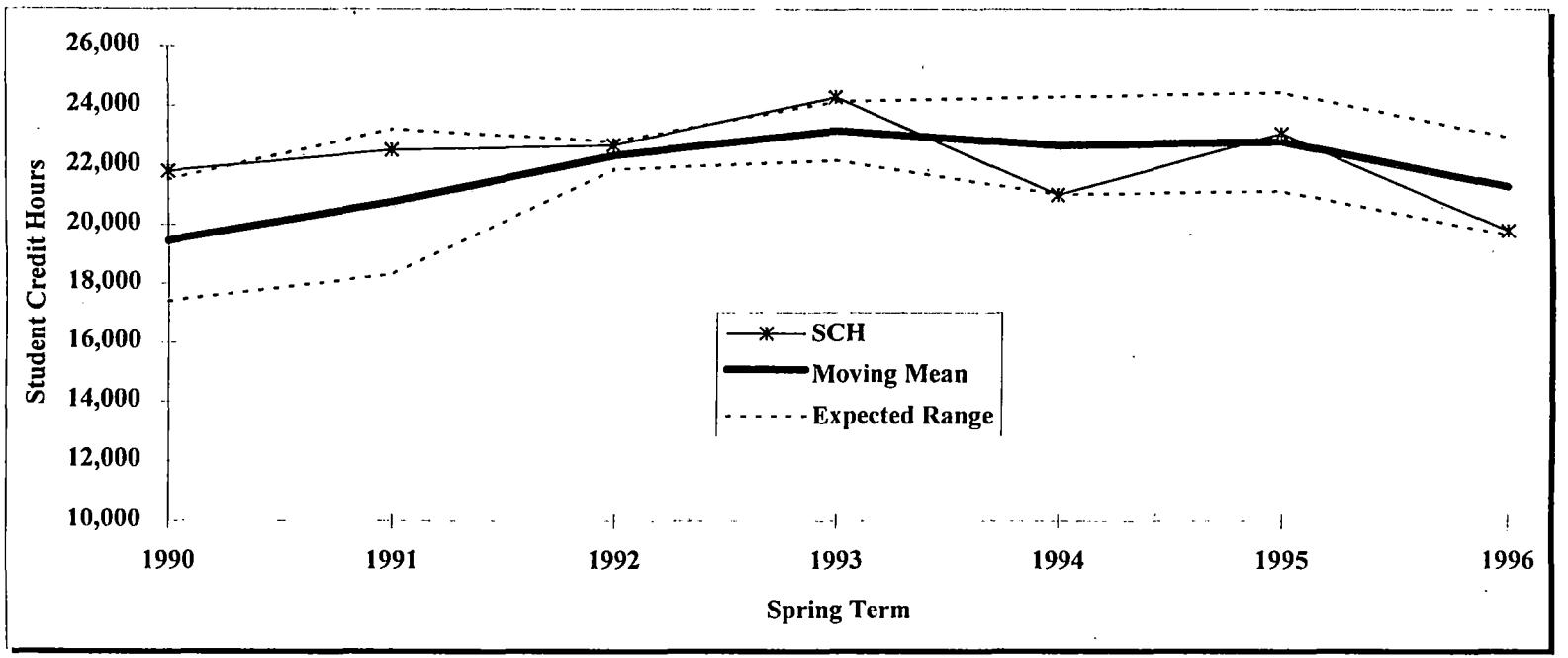
Spring	Student Credit Hours	Moving Mean	Standard Deviation	Expected Range High	Expected Range Low
1990	69,418	65,317	3,675.0	68,992	61,642
1991	73,987	69,205	4,891.6	74,097	64,314
1992	77,298	73,568	3,956.5	77,524	69,611
1993	75,976	75,754	1,666.3	77,420	74,087
1994	65,813	73,029	6,284.1	79,313	66,745
1995	67,593	69,794	5,427.3	75,221	64,367
1996	63,238	65,548	2,189.6	67,738	63,358



Source: OCC, Office of Institutional Planning & Analysis, 9/19/96

Oakland Community College
Auburn Hills Campus
Spring Enrollment Trends Analysis for Student Credit Hours (SCH)
(Spring 1990 Through Spring 1996)

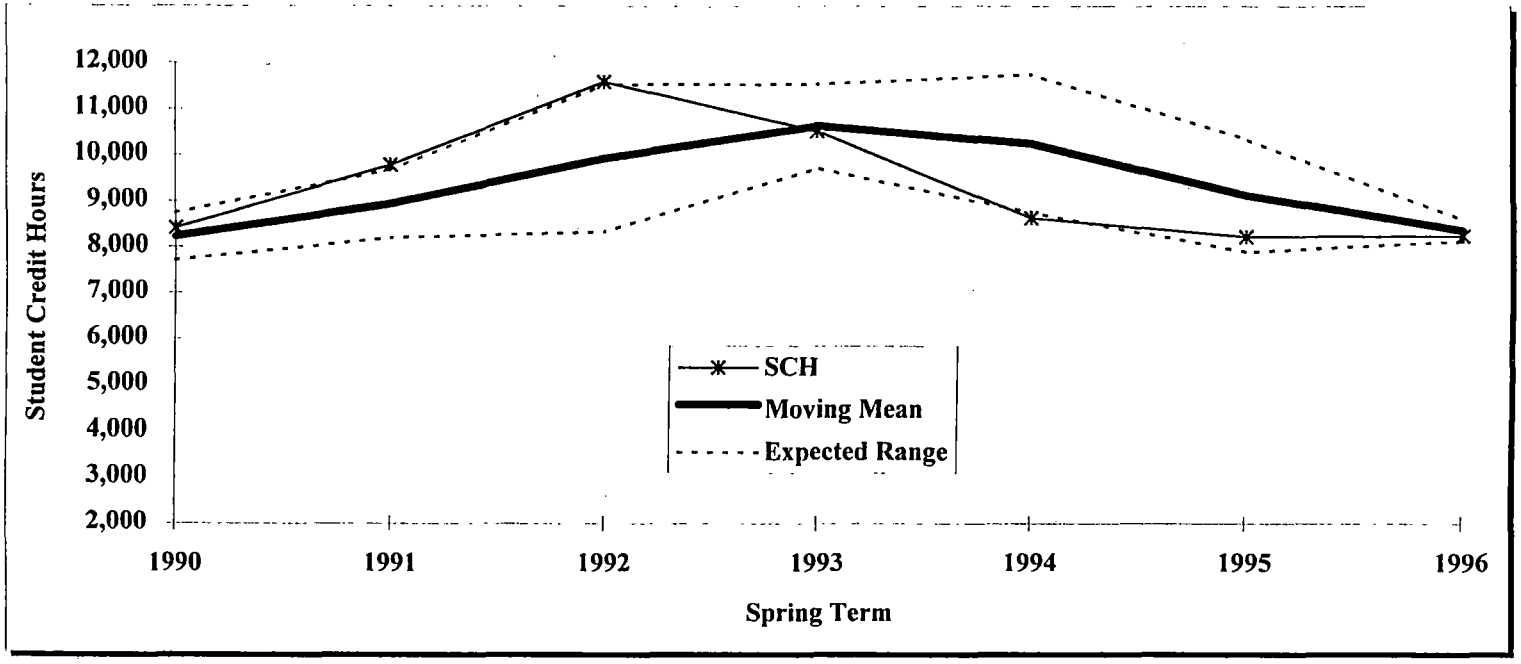
Spring	Student Credit Hours	Moving Mean	Standard Deviation	Expected Range High	Expected Range Low
1990	21,814	19,450	2,068.6	21,519	17,382
1991	22,515	20,766	2,447.0	23,213	18,319
1992	22,682	22,337	460.5	22,797	21,876
1993	24,296	23,164	983.6	24,148	22,181
1994	21,018	22,665	1,639.2	24,304	21,026
1995	23,070	22,795	1,656.4	24,451	21,138
1996	19,790	21,293	1,657.2	22,950	19,635



Source: OCC, Office of Institutional Planning & Analysis, 9/23/96

Oakland Community College
Highland Lakes Campus
Spring Enrollment Trends Analysis for Student Credit Hours (SCH)
(Spring 1990 Through Spring 1996)

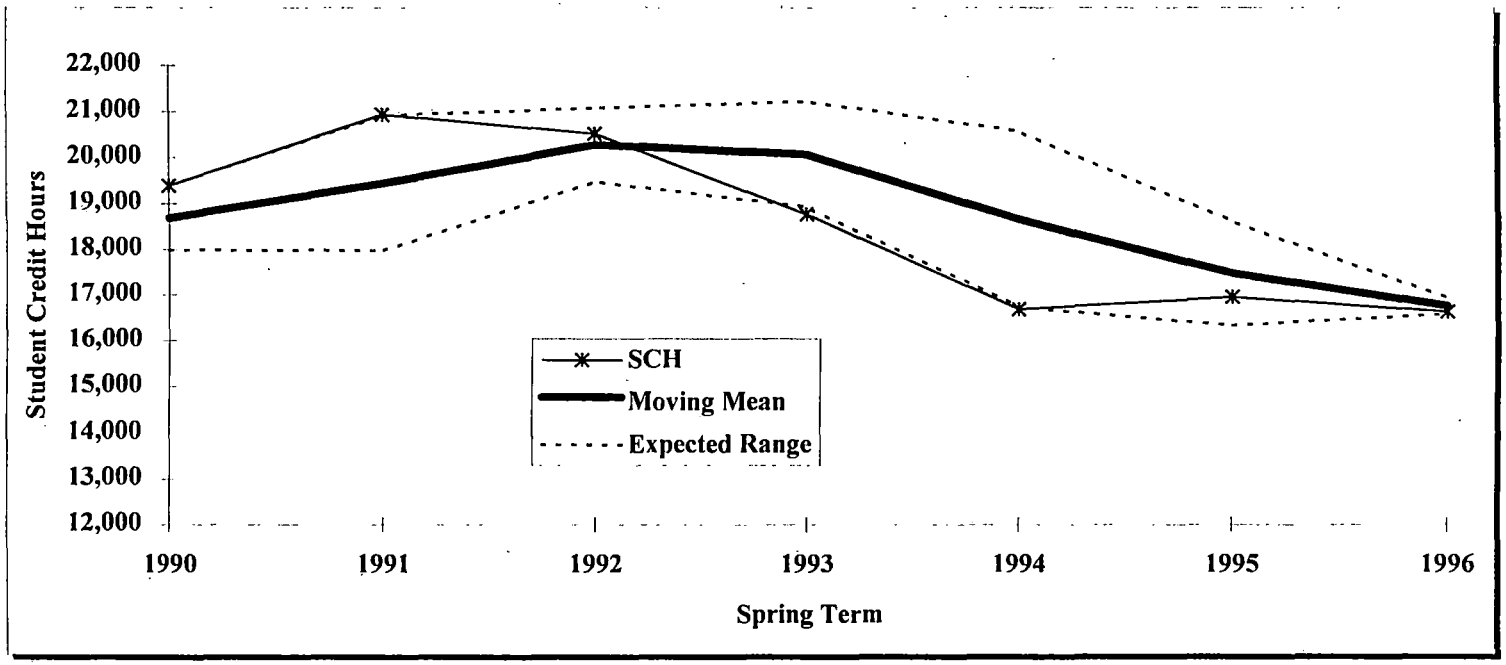
Spring	Student Credit Hours	Moving Mean	Standard Deviation	Expected Range High	Expected Range Low
1990	8,410	8,225	515.4	8,741	7,710
1991	9,783	8,939	738.9	9,678	8,200
1992	11,587	9,927	1,593.4	11,520	8,333
1993	10,523	10,631	906.8	11,538	9,724
1994	8,627	10,246	1,499.4	11,745	8,746
1995	8,217	9,122	1,230.2	10,353	7,892
1996	8,238	8,361	230.9	8,592	8,130



Source: OCC, Office of Institutional Planning & Analysis, 9/23/96

Oakland Community College
Orchard Ridge Campus
Spring Enrollment Trends Analysis for Student Credit Hours (SCH)
(Spring 1990 Through Spring 1996)

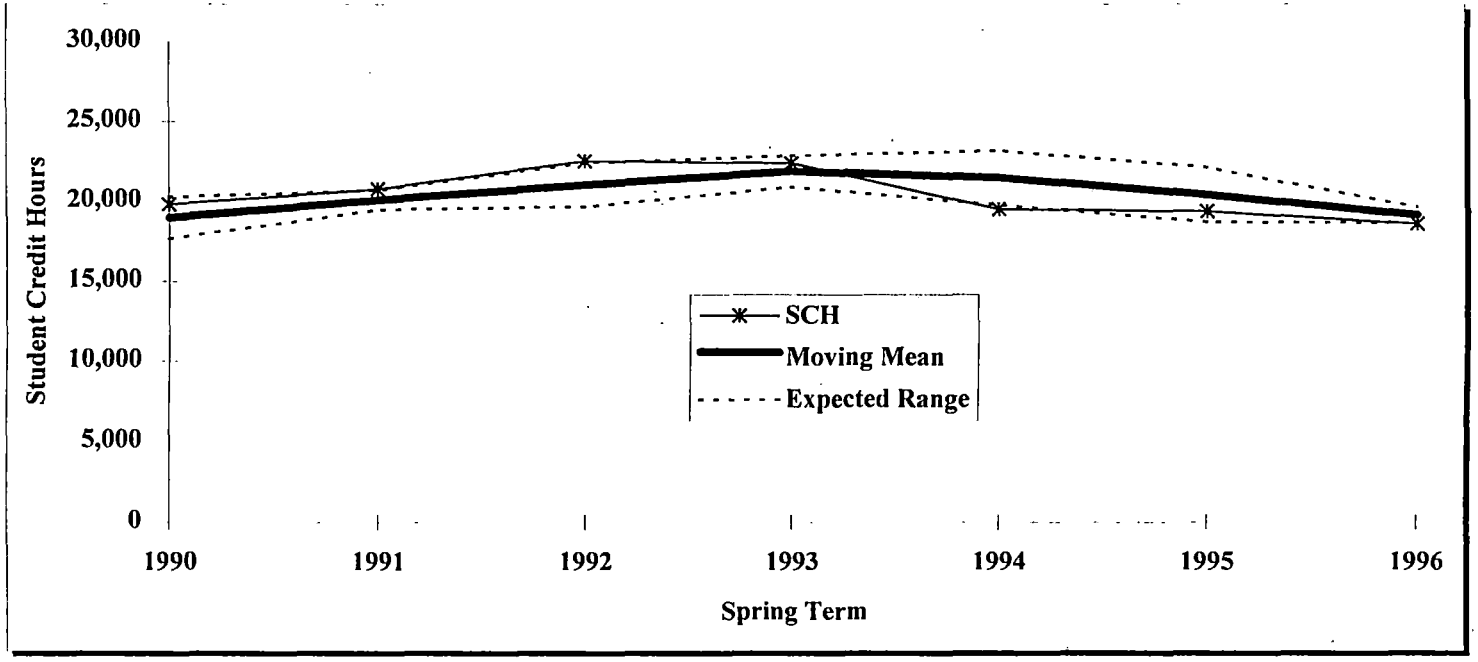
Spring	Student Credit Hours	Moving Mean	Standard Deviation	Expected Range High	Expected Range Low
1990	19,383	18,679	695.2	19,374	17,983
1991	20,929	19,435	1,468.7	20,904	17,966
1992	20,512	20,275	799.9	21,075	19,475
1993	18,763	20,068	1,149.2	21,217	18,919
1994	16,675	18,650	1,921.0	20,571	16,729
1995	16,941	17,460	1,136.5	18,596	16,323
1996	16,618	16,745	172.4	16,917	16,572



Source: OCC, Office of Institutional Planning & Analysis, 9/19/96

Oakland Community College
Royal Oak & Southfield Campus
Spring Enrollment Trends Analysis for Student Credit Hours (SCH)
(Spring 1990 Through Spring 1996)

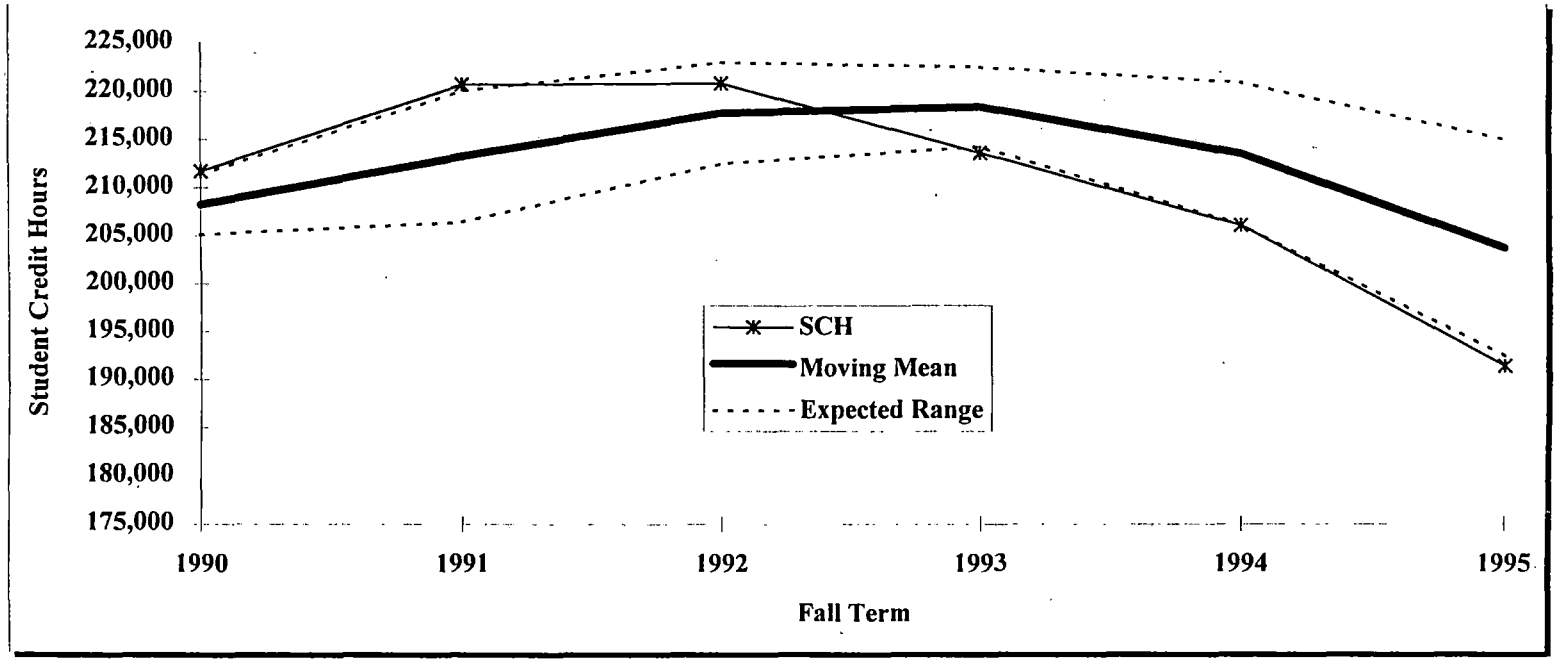
Spring	Credit Hours	Moving Mean	Standard Deviation	Expected Range High	Expected Range Low
1990	19,811	18,963	1,311.6	20,274	17,651
1991	20,760	20,065	608.7	20,674	19,457
1992	22,517	21,029	1,373.0	22,402	19,656
1993	22,394	21,890	980.8	22,871	20,910
1994	19,493	21,468	1,711.5	23,180	19,756
1995	19,365	20,417	1,713.0	22,130	18,704
1996	18,592	19,150	487.5	19,637	18,663



Source: OCC, Office of Institutional Planning & Analysis, 9/19/96

Oakland Community College
College-Wide
Fall Enrollment Trends Analysis for Student Credit Hours (SCH)
(Fall 1990 Through Fall 1995)

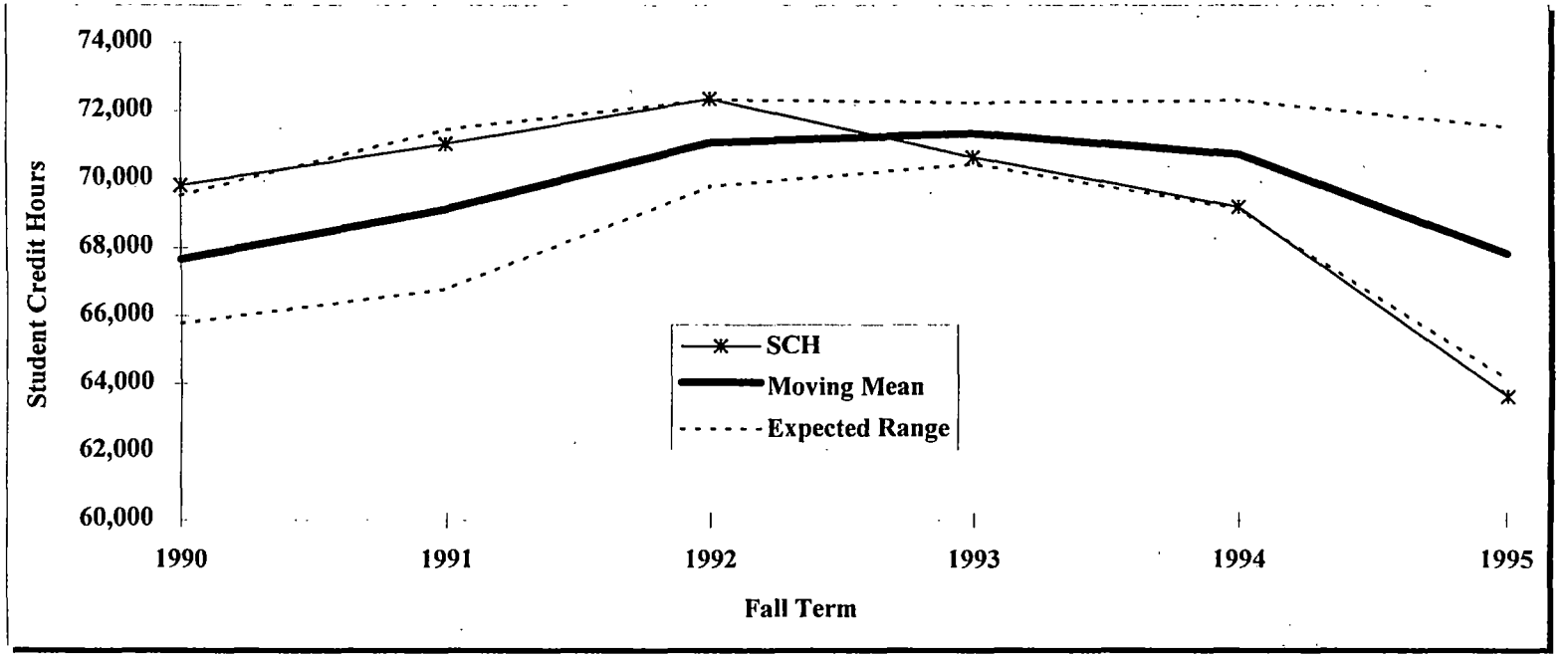
Fall	Student Credit Hours	Moving Mean	Standard Deviation	Expected Range High	Expected Range Low
1990	211,666	208,199	3,121.5	211,320	205,078
1991	220,655	213,213	6,801.3	220,015	206,412
1992	220,813	217,711	5,236.0	222,947	212,475
1993	213,587	218,352	4,127.1	222,479	214,225
1994	206,044	213,481	7,385.1	220,866	206,096
1995	191,366	203,666	11,299.8	214,965	192,366



Source: OCC, Office of Institutional Planning & Analysis, 9/19/96

Oakland Community College
Auburn Hills Campus
Fall Enrollment Trends Analysis for Student Credit Hours (SCH)
(Fall 1990 Through Fall 1995)

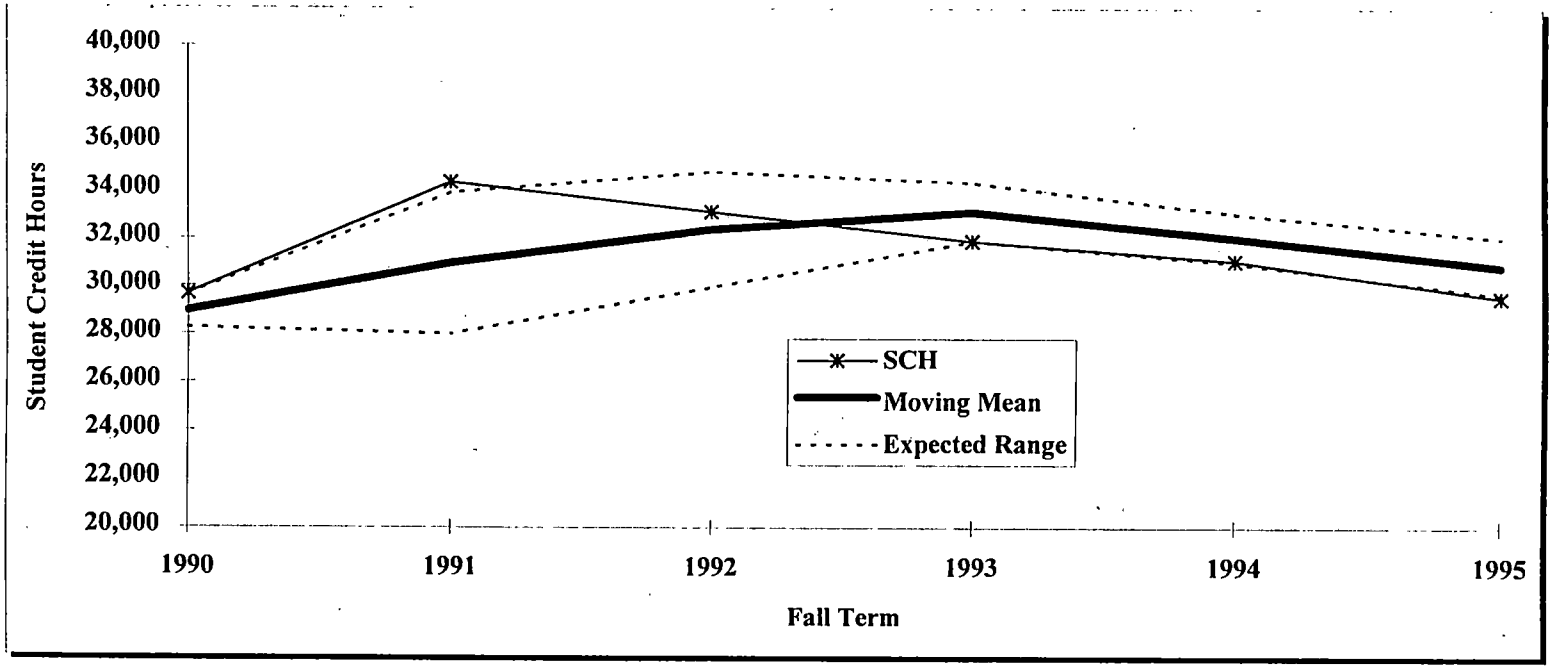
Fall	Student Credit Hours	Moving Mean	Standard Deviation	Expected Range High	Expected Range Low
1990	69,815	67,647	1,877.6	69,525	65,770
1991	71,031	69,124	2,331.2	71,455	66,792
1992	72,353	71,066	1,269.4	72,336	69,797
1993	70,641	71,342	897.3	72,239	70,444
1994	69,195	70,730	1,580.9	72,311	69,149
1995	63,612	67,816	3,711.9	71,528	64,104



Source: OCC, Office of Institutional Planning & Analysis, 9/23/96

Oakland Community College
Highland Lakes Campus
Fall Enrollment Trends Analysis for Student Credit Hours (SCH)
(Fall 1990 Through Fall 1995)

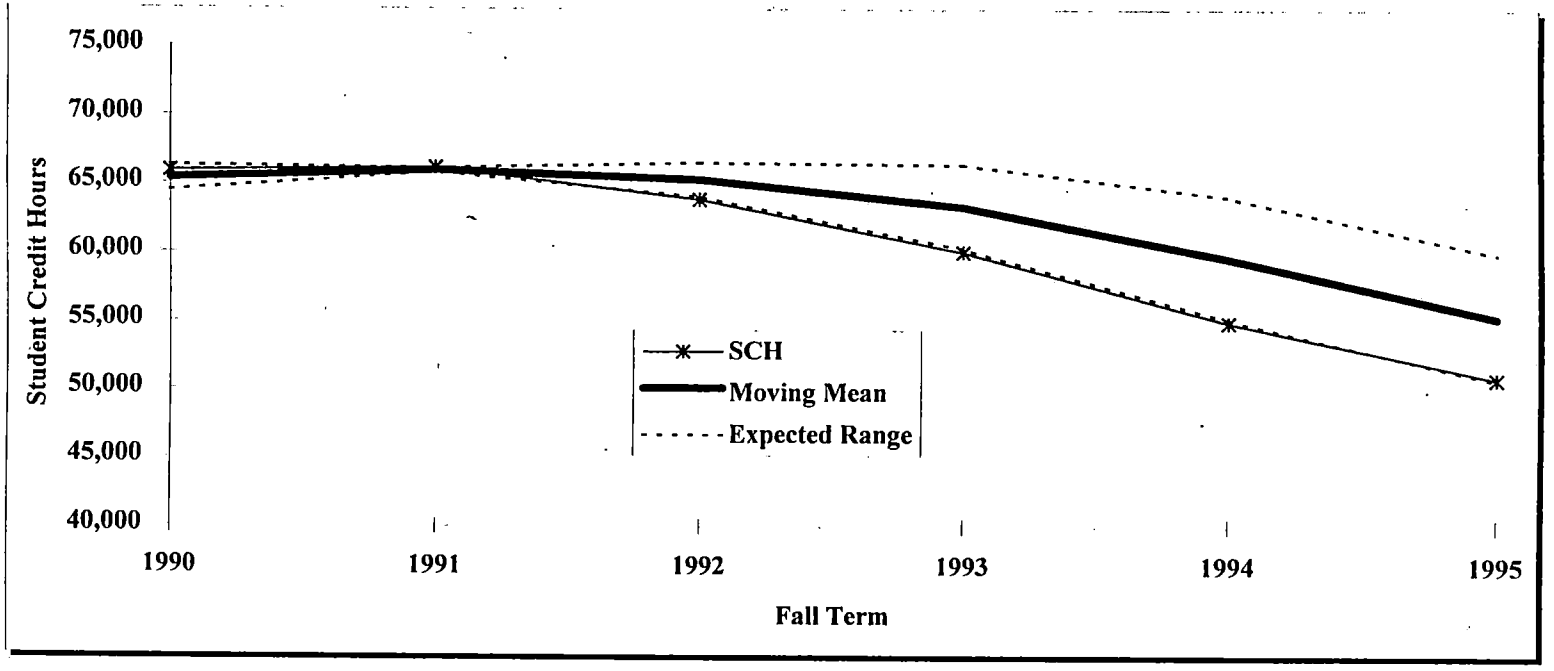
				Expected Range	
Fall	Student Credit Hours	Moving Mean	Standard Deviation	High	Low
1990	29,676	28,943	689.7	29,632	28,253
1991	34,314	30,945	2,947.1	33,892	27,998
1992	33,097	32,362	2,404.7	34,767	29,958
1993	31,873	33,095	1,220.5	34,315	31,874
1994	31,051	32,007	1,029.6	33,037	30,977
1995	29,525	30,816	1,191.5	32,008	29,625



Source: OCC, Office of Institutional Planning & Analysis, 9/23/96

Oakland Community College
Orchard Ridge Campus
Fall Enrollment Trends Analysis for Student Credit Hours (SCH)
(Fall 1990 Through Fall 1995)

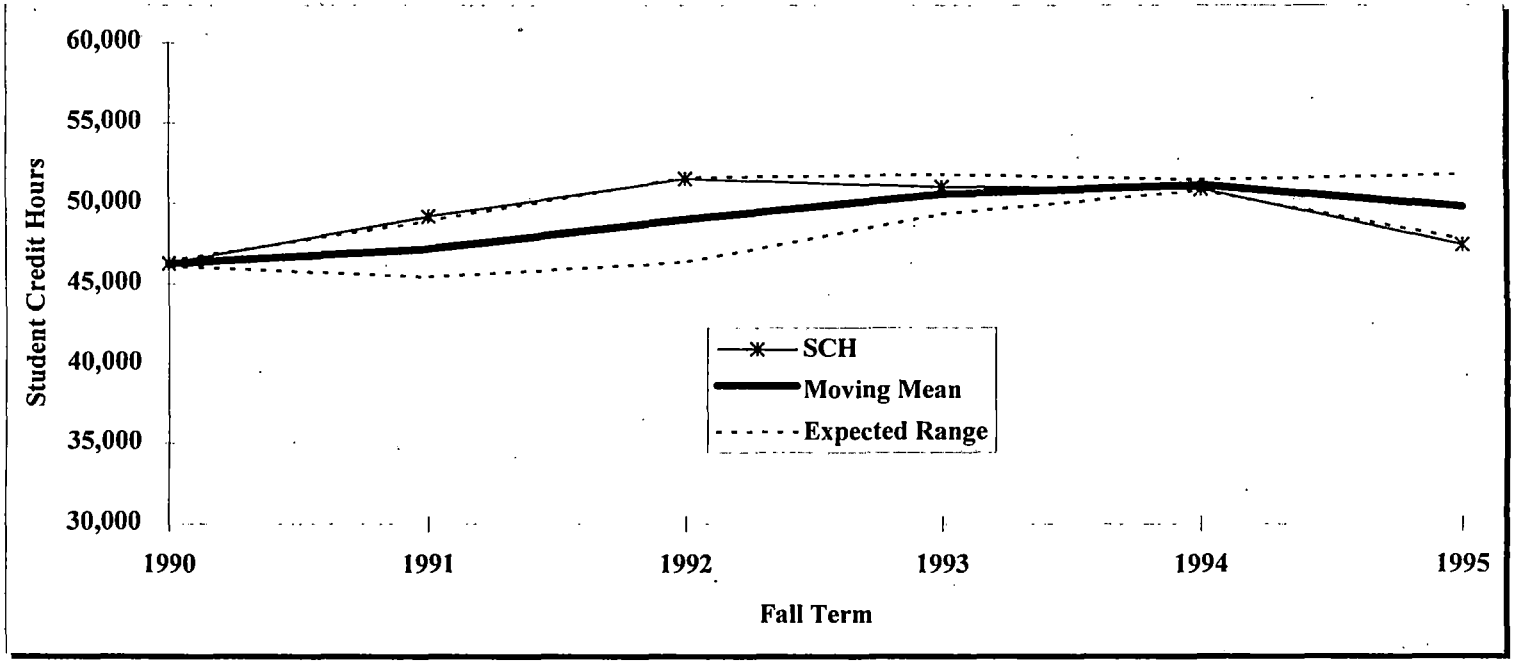
Fall	Student Credit Hours	Moving Mean	Standard Deviation	Expected Range High	Expected Range Low
1990	65,886	65,349	910.8	66,260	64,438
1991	66,132	65,960	149.1	66,109	65,811
1992	63,853	65,290	1,250.8	66,541	64,040
1993	60,061	63,349	3,066.8	66,415	60,282
1994	54,908	59,607	4,489.7	64,097	55,118
1995	50,771	55,247	4,654.3	59,901	50,592



Source: OCC, Office of Institutional Planning & Analysis, 9/19/96

Oakland Community College
Royal Oak & Southfield Campus
Fall Enrollment Trends Analysis for Student Credit Hours (SCH)
(Fall 1990 Through Fall 1995)

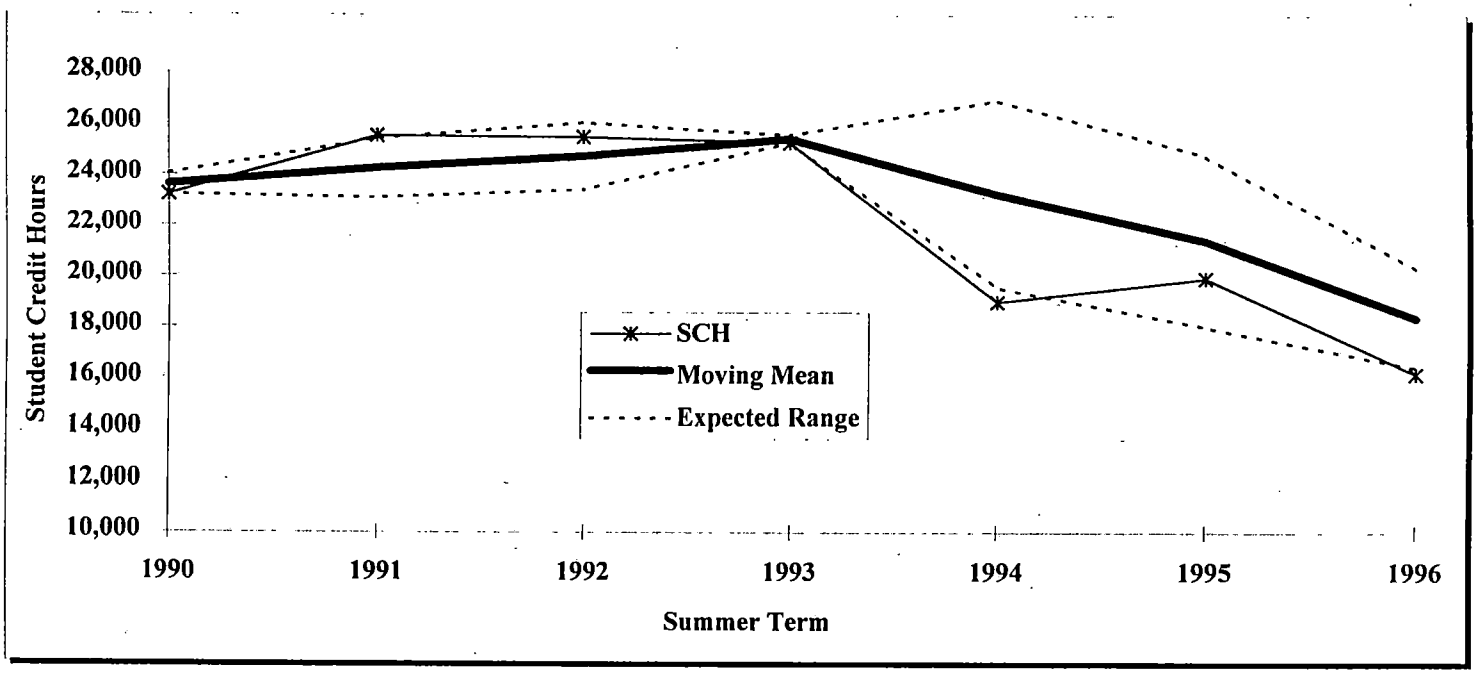
Fall	Credit Hours	Moving Mean	Standard Deviation	Expected Range High	Expected Range Low
1990	46,289	46,260	161.9	46,422	46,098
1991	49,178	47,184	1,729.5	48,914	45,455
1992	51,510	48,992	2,615.4	51,608	46,377
1993	51,012	50,567	1,228.1	51,795	49,339
1994	50,890	51,137	328.5	51,466	50,809
1995	47,458	49,787	2,017.6	51,804	47,769



Source: OCC, Office of Institutional Planning & Analysis, 9/19/96

Oakland Community College
College-Wide
Summer Enrollment Trends Analysis for Student Credit Hours (SCH)
(Summer 1990 Through Summer 1996)

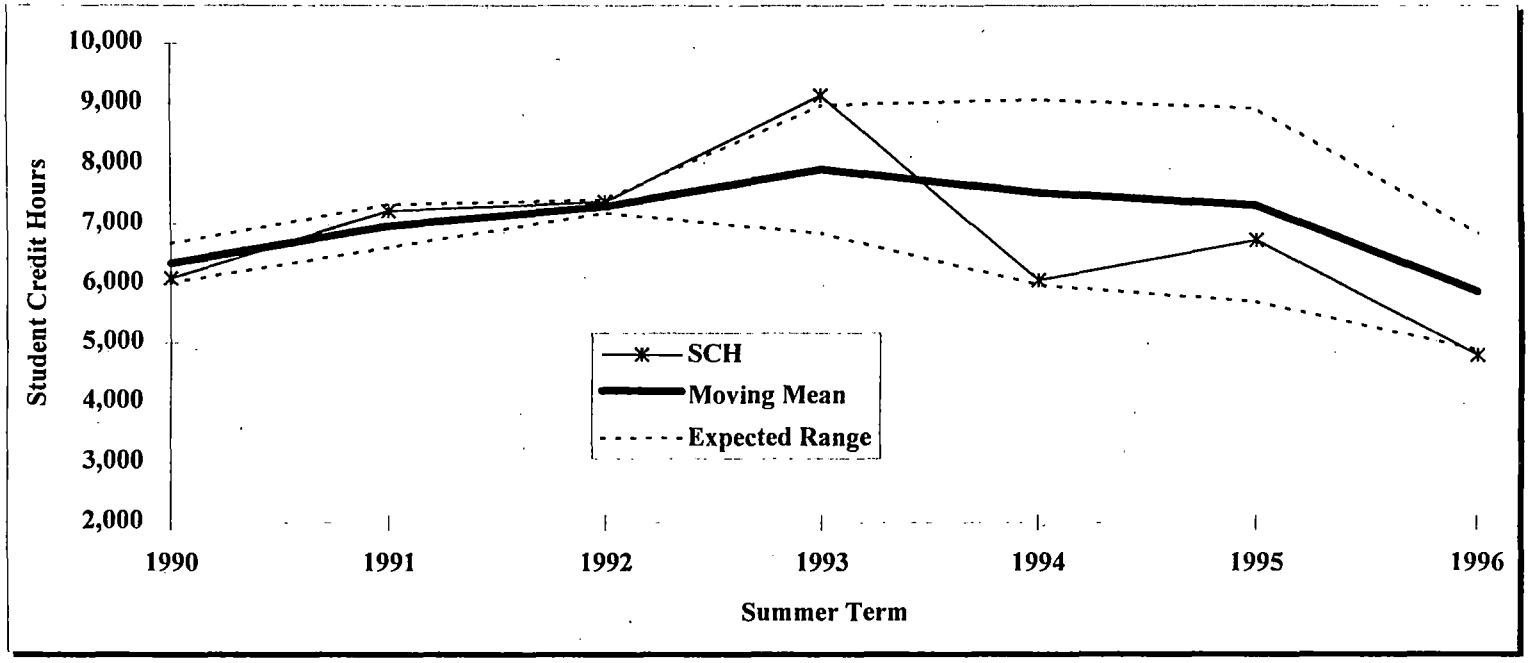
Summer	Student Credit Hours	Moving Mean	Standard Deviation	Expected Range High	Expected Range Low
1990	23,217	23,615	406.7	24,022	23,209
1991	25,506	24,251	1,160.6	25,412	23,091
1992	25,471	24,731	1,311.6	26,043	23,420
1993	25,253	25,410	137.3	25,547	25,273
1994	18,974	23,232	3,689.5	26,922	19,543
1995	19,902	21,376	3,389.0	24,765	17,987
1996	16,150	18,342	1,954.2	20,296	16,388



Source: OCC, Office of Institutional Planning & Analysis, 9/19/96

Oakland Community College
Auburn Hills Campus
Summer Enrollment Trends Analysis for Student Credit Hours (SCH)
(Summer 1990 Through Summer 1996)

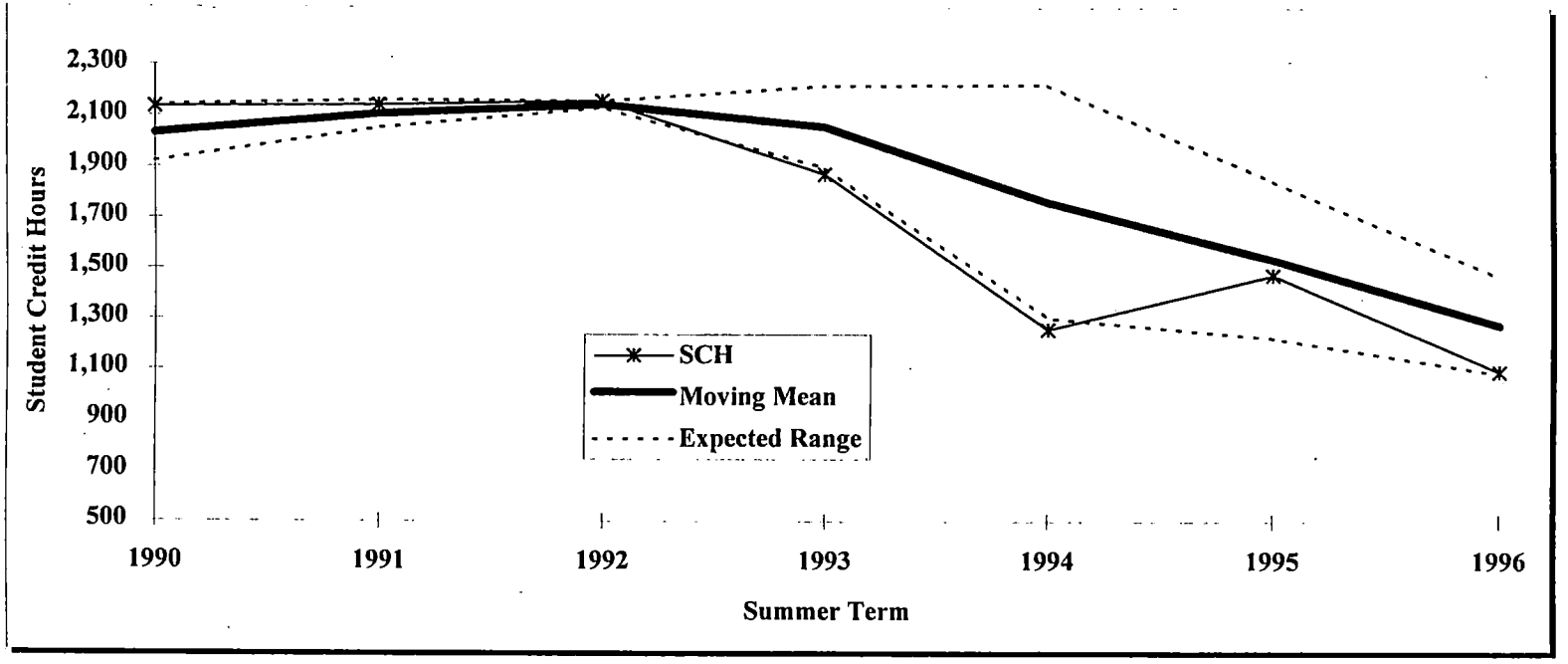
Summer	Student Credit Hours	Moving Mean	Standard Deviation	Expected Range High	Expected Range Low
1990	6,084	6,340	329.9	6,670	6,010
1991	7,216	6,964	356.7	7,321	6,608
1992	7,367	7,292	106.2	7,398	7,185
1993	9,132	7,905	1,065.1	8,970	6,840
1994	6,056	7,518	1,543.4	9,062	5,975
1995	6,725	7,304	1,617.6	8,922	5,687
1996	4,793	5,858	981.1	6,839	4,877



Source: OCC, Office of Institutional Planning & Analysis, 9/23/96

Oakland Community College
Highland Lakes Campus
Summer Enrollment Trends Analysis for Student Credit Hours (SCH)
(Summer 1990 Through Summer 1996)

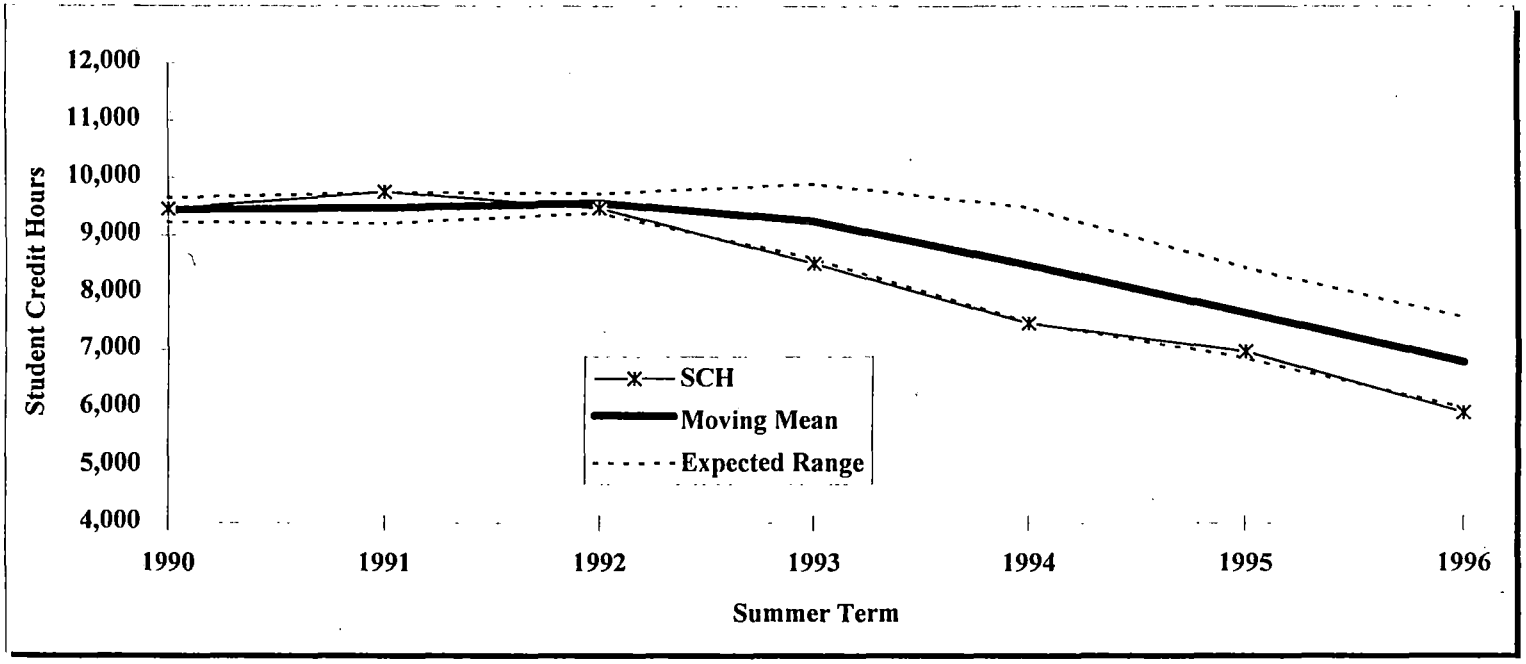
Summer	Student Credit Hours	Moving Mean	Standard Deviation	Expected Range High	Expected Range Low
1990	2,134	2,030	111.1	2,141	1,919
1991	2,142	2,107	54.4	2,161	2,052
1992	2,158	2,145	12.2	2,157	2,132
1993	1,872	2,057	160.7	2,218	1,897
1994	1,257	1,762	460.4	2,223	1,302
1995	1,473	1,534	312.0	1,846	1,222
1996	1,090	1,273	192.0	1,465	1,081



Source: OCC, Office of Institutional Planning & Analysis, 9/23/96

Oakland Community College
Orchard Ridge Campus
Summer Enrollment Trends Analysis for Student Credit Hours (SCH)
(Summer 1990 Through Summer 1996)

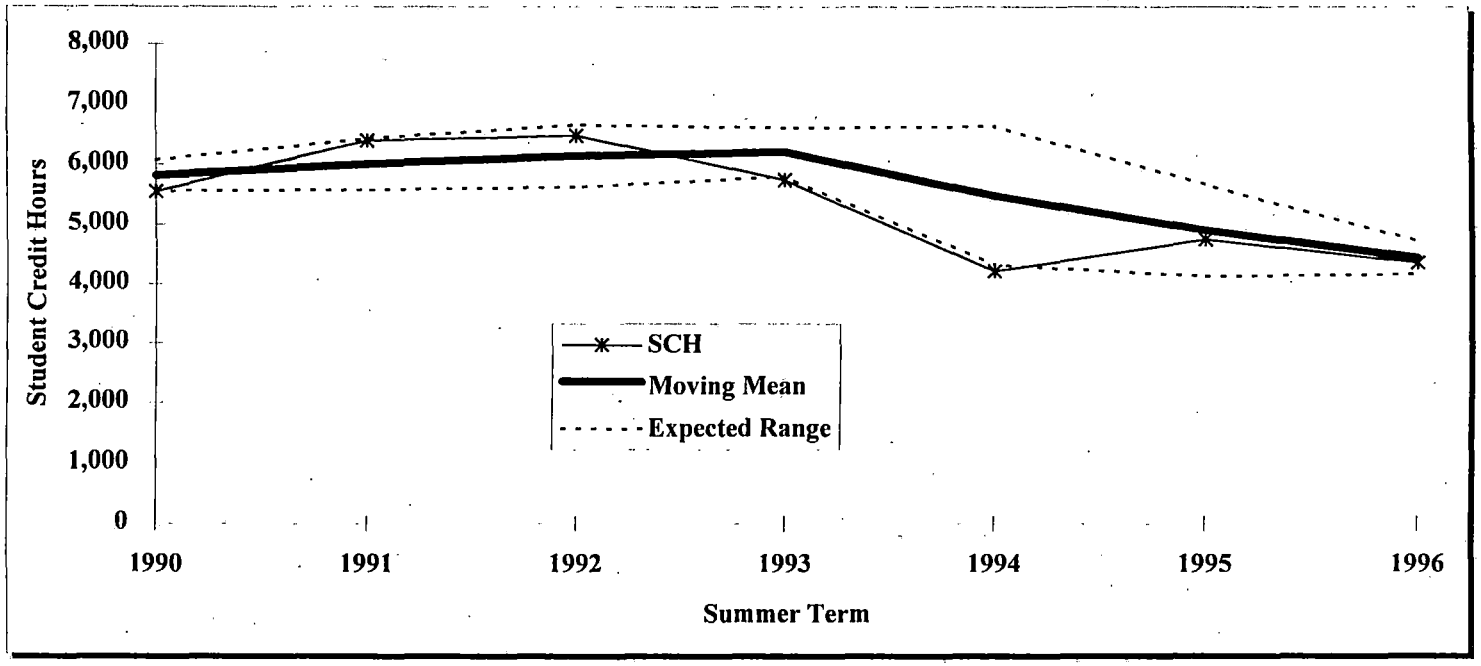
Summer	Student Credit Hours	Moving Mean	Standard Deviation	Expected Range High	Expected Range Low
1990	9,449	9,434	212.9	9,647	9,221
1991	9,754	9,472	270.8	9,743	9,202
1992	9,466	9,556	171.4	9,728	9,385
1993	8,509	9,243	651.8	9,895	8,591
1994	7,451	8,475	1,007.9	9,483	7,467
1995	6,960	7,640	791.6	8,432	6,848
1996	5,910	6,774	787.2	7,561	5,986



Source: OCC, Office of Institutional Planning & Analysis, 9/19/96

Oakland Community College
Royal Oak & Southfield Campus
Summer Enrollment Trends Analysis for Student Credit Hours (SCH)
(Summer 1990 Through Summer 1996)

Summer	Student Credit Hours	Moving Mean	Standard Deviation	Expected Range High	Expected Range Low
1990	5,550	5,811	255.2	6,067	5,556
1991	6,394	6,001	425.0	6,426	5,576
1992	6,480	6,141	513.9	6,655	5,627
1993	5,740	6,205	404.7	6,609	5,800
1994	4,210	5,477	1,157.7	6,634	4,319
1995	4,744	4,898	776.5	5,675	4,121
1996	4,357	4,437	275.8	4,713	4,161



Source: OCC, Office of Institutional Planning & Analysis, 9/19/96

Winter

Winter

	1988		1989		1990		1991		1992		1993		1994		1995		1996	
	Students	SCH	Students	SCH	Students	SCH	Students	SCH	Students	SCH	Students	SCH	Students	SCH	Students	SCH	Students	SCH
Auburn Hills		58,447.9		61,190.3		65,405.0		67,835.8		68,544.9		70,269.2		66,498.1		61,686.9		58,502.4
Highland Lakes		25,861.5		26,726.2		28,134.4		28,607.2		32,969.9		32,273.0		30,089.0		27,286.0		27,019.2
Orchard Ridge		54,521.8		57,130.0		57,299.6		58,403.0		58,935.4		55,900.2		52,800.0		47,602.0		44,775.2
Royal Oak		42,115.7		44,099.8		43,325.5		44,689.4		48,189.7		34,263.8		33,990.0		33,469.0		34,773.9
Southfield												13,751.0		13,524.0		11,891.0		11,467.0

180968 189146 194165 199535 480148 475140 455600 462409

Fall

Fall

	1987		1988		1989		1990		1991		1992		1993		1994		1995	
	Students	SCH	Students	SCH	Students	SCH	Students	SCH	Students	SCH	Students	SCH	Students	SCH	Students	SCH	Students	SCH
Auburn Hills		61,597.1		66,601.5		66,524.7		69,814.5		71,031.4		72,353.0		70,640.9		69,195.0		63,612.2
Highland Lakes		26,874.9		28,306.8		28,844.6		29,675.9		34,313.7		33,096.9		31,873.0		31,051.0		29,525.0
Orchard Ridge		62,014.1		64,296.8		65,863.3		65,885.5		66,132.2		63,852.5		60,061.0		54,907.6		50,771.1
Royal Oak		43,886.8		46,406.4		46,085.6		46,288.5		49,178.3		36,549.2		36,256.0		37,125.6		35,383.4
Southfield	**	**										14,961.0		14,756.0		13,764.0		12,075.0

644

194373 205612 207319 211666 220655 515102 510120 508896 479588

Spring									Spring									
	1988		1989		1990		1991		1992		1993		1994		1995		1996	
	Students	SCH	Students	SCH	Students	SCH	Students	SCH	Students	SCH	Students	SCH	Students	SCH	Students	SCH	Students	SCH
Auburn Hills		18,567.2		17,969.5		21,813.7		22,515.3		22,681.6		24,296.0		21,017.8		23,070.1		19,790.0
Highland Lakes		7,643.0		8,623.2		8,410.0		9,782.5		11,587.0		10,522.5		8,627.0		8,217.4		8,237.5
Orchard Ridge		18,660.1		17,992.8		19,382.9		20,929.0		20,512.3		18,762.6		16,674.9		16,940.5		16,617.9
Royal Oak		17,452.4		19,624.5		19,811.0		20,760.0		22,517.4		16,718.4		15,430.5		15,369.7		15,194.2
Southfield												5,676.0		4,062.0		3,995.0		3,398.0

62322 6424 69418 22394.4 19.992.5 19364.7 18592.2

Beef
bean sprouts
four apples
twice
alumin foil
milk

Summer

	1988	1989		1990		1991		1992		1993		1994		1995		1996	
	SCH	Students	SCH	Students	SCH	Students	SCH	Students	SCH	Students	SCH	Students	SCH	Students	SCH	Students	SCH
Auburn Hills	6,222.7		6,712.2		6,084.3		7,216.4		7,366.6		9,131.7		6,056.1		6,725.3		4,793.2
Highland Lakes	1,913.0		2,044.0		2,134.0		2,142.0		2,158.4		1,872.2		1,257.0		1,472.6		1,090.0
Orchard Ridge	9,638.5		9,213.9		9,448.9		9,754.1		9,466.2		8,509.3		7,450.8		6,960.3		5,910.0
Royal Oak	5,823.5		6,060.1		5,550.0		6,394.0		5,246.9		5,069.3		3,641.7		4,032.8		3,769.5
Southfield									1,233.0		671.0		568.0		711.0		587.5
	23599	24030							6479.9		5740.3		4209.7		4743.8		4357.0

Source: OCC, Office of Institutional Planning & Analysis, 9/11/96