

AD-A077 784

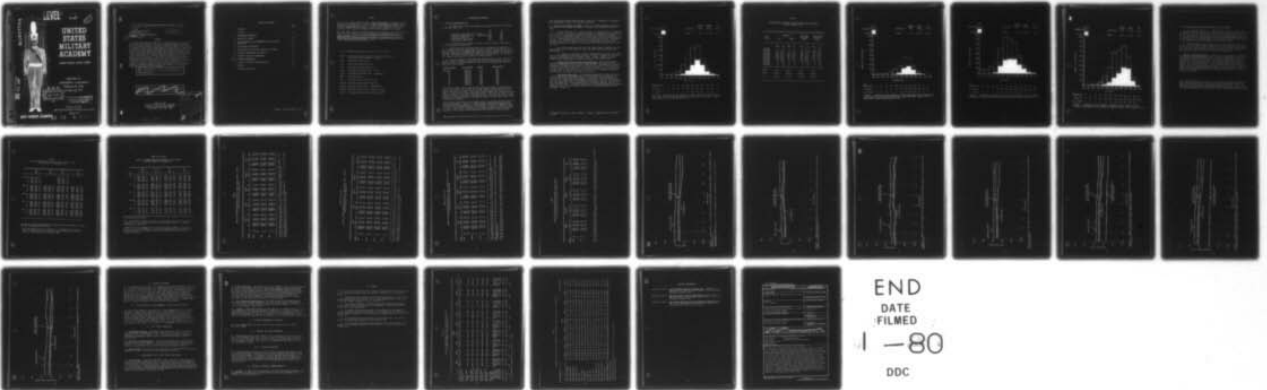
MILITARY ACADEMY WEST POINT NY OFFICE OF THE DIRECTO--ETC F/6 5/9
TRENDS IN ADMISSION VARIABLES THROUGH THE CLASS OF 1977, (U)
APR 74 J W HOUSTON

UNCLASSIFIED

981.01-74-027

NL

| OF |
ADA
077784



LEVEL II

74-027



ADA 077784

UNITED STATES MILITARY ACADEMY

WEST POINT · NEW YORK



DDC FILE COPY

TRENDS IN
ADMISSION VARIABLES
THROUGH THE
CLASS OF 1977

DDC
RECEIVED
DEC 10 1979
A

DISTRIBUTION STATEMENT A
Approved for public release
Distribution Unlimited

OFFICE OF THE
DIRECTOR OF INSTITUTIONAL RESEARCH

APRIL 1974

DUTY-HONOR-COUNTRY

79 20 . 9 205

6 TRENDS IN ADMISSION VARIABLES THROUGH THE CLASS OF 1977

14 Report No. 9B1.01-74-027
Project No. 167

12 36

Prepared by: Mr. John W. Houston
11 April 1974 10

ABSTRACT

The United States Military Academy uses the Whole Man concept in the selection of candidates for admission. This concept encompasses three broad ability areas: scholastic, leadership potential, and physical condition and aptitude. The entrance scores for each of these areas are compared with previous classes. The American College Testing Program scores were used to admit 435 cadets to the Class of 1977. These scores are included, but since this is only the second year they were used, there are not enough scores of previous classes to show trends. The Class of 1977 compared to previous classes has a slight decrease in its academic potential. The mean Leadership Potential Score is the highest for the Class of 1977 of any Class since the Class of 1969 when the present method of calculating it was started. The mean Physical Aptitude Examination Scores are lower than for all Classes in the past ten years except for the Class of 1968. Trend data for the Classes of 1968 to 1977 are presented. An important point in interpreting the data is that the total number of candidates increased greatly for the Classes of 1974 through 1977 compared to the Classes of 1973 and before.

NOTE: Any conclusions in this report are not to be construed as official U. S. Military Academy or Department of the Army positions unless so designated by other authorized documents.

DISTRIBUTION: This document is prepared for official purposes only. Its contents may not be reproduced or distributed (in whole or in part) without specific permission of the Superintendent, U. S. Military Academy, in each instance.

OFFICE OF THE
DIRECTOR OF INSTITUTIONAL RESEARCH
UNITED STATES MILITARY ACADEMY
WEST POINT, NEW YORK 10996

Accession For	
NTIS GRA&I	<input checked="" type="checkbox"/>
DDC TAB	<input type="checkbox"/>
Unannounced	<input type="checkbox"/>
Justification	
By _____	
Distribution/ _____	
Availability Codes	
Dist	Availand/or special
A	

✓ 406 247

JOB

TABLE OF CONTENTS

	Page
Abstract	i
Preface	ii
I PERFORMANCE MEASURES	1
II HONORS AND AWARDS	26
III PARTICIPATION AND ATTAINMENTS IN HIGH SCHOOL ATHLETICS	26
IV HIGH SCHOOL BACKGROUND	26
V NON-ATHLETIC ACTIVITIES DURING HIGH SCHOOL	26
VI MILITARY EXPERIENCE OR SERVICE	27
VII PARENTS' MILITARY BACKGROUND	27
VIII COLLEGE BACKGROUND	27
IX TRENDS ON SELECTED CHARACTERISTICS	27
X SUMMARY	28
Selected References	31

Typist: Miss Deborah A. Tart

PREFACE

This report, along with the report, Characteristics of the Class of 1977, prepared in November 1973, and the report, New Cadets and Other College Freshmen, Class of 1977, prepared in March 1974, comprise the general reports prepared by the Office of Institutional Research to describe the Class of 1977 at the time members of the Class entered the Academy.

The same three reports were prepared for the Classes of 1971 through 1976. (For 1971 this report was called Analysis of the Characteristics of the Class of 1971, and for the Classes of 1972 and 1973 it was called Background and Predicted Success of Cadets in the Class of ---- with Comparison with Previous Classes.) Similar reports are planned on each future class when it enters the Academy.

The following abbreviations are used in this report:

CEER	College Entrance Examination Scores and High School Rank Scores statistically combined.
HSR	High School Rank Score
LPS	Leadership Potential Score
PAE	Physical Aptitude Examination
SAT-V	Scholastic Aptitude Test - Verbal
SAT-M	Scholastic Aptitude Test - Mathematics
WMS	Whole Man Score
ASR	Aptitude for the Service Rating
ACT-EN	American College Test - English
ACT-MA	American College Test - Mathematics
ACT-NA	American College Test - Natural Science
ACEER	A composite score of ACT Tests and HSR

I. PERFORMANCE MEASURES

1. Academic Qualifications

a. The mean College Entrance Examination Board scores for the Classes of 1977 and 1976 are:

	<u>'77</u>	<u>'76</u>
Scholastic Aptitude Test - Verbal	545	554
Scholastic Aptitude Test - Mathematics	616	624
English Composition	538	545
Mathematics Achievement	607	620
High School Rank Score	541	541

b. The differences in scores for SAT-V, SAT-M, and Math Achievement are statistically significant.*

c. Comparisons with available data aid in interpreting the level of these scores. The mean cadet score for the Class of '77 on SAT-V is higher than that of 80% of a representative sample of male secondary school seniors. The mean cadet score on SAT-M was higher than that of 82% of the secondary seniors. The mean of 516,000 male secondary schools seniors in the 1972-1973 school year on SAT-V is 446 and on SAT-M is 502.

d. The mean scores of the Scholastic Aptitude test of all high school seniors, male and female, nationwide has shown a steady decline over the past ten years. The mean scores as reported by the Educational Testing Service are as follows:

<u>College Class</u>	<u>Year Tested</u>	<u>Verbal</u>	<u>Mathematics</u>
Class 68	1963-64	475	498
69	1964-65	473	496
70	1965-66	471	496
71	1966-67	467	495
72	1967-68	466	494
73	1968-69	462	491
74	1969-70	461	488
75	1970-71	454	487
76	1971-72	450	482
77	1972-73	445	481

"The College Board News" of March 1974 gives two factors in explaining the decline of scores. One is the increasing number of students who use their junior SAT scores for admission to college and who do not take the test again in their senior year. Generally, these students are among the higher-scoring students in the total candidate group. The fact that their senior scores no longer contribute to the average, plus the fact that there would have been an average 15 point increase for them in their senior year, tends to drive the mean down.

"The decline might also be attributable partly to changes in the nature of the SAT population", says Dr. T. Anne Cleary, Chief of Program Services Division of the College Board. Students are at liberty to choose to take or not to take the SAT and they are at liberty to take the test any number of times. Thus, what is observed in the SAT averages could be partly an artifact of the nature of the population that elects to take the test.

*Statistical significance referred to in this report is at the .05 level.

This population shifts from one year to the next in response to changes in the educational, social, and economic climate.

2. Potential for Success at USMA. There are several measures which have been found to be related to academic, physical and leadership success at USMA.

a. General Potential for Academic Success. Each candidate is evaluated on his academic potential to succeed at USMA. No candidate is admitted unless there is a reasonable assurance that he will be able to graduate. The prime academic potential measure is the CEER score which, for the Class of 1973, had a correlation coefficient of .67 with end of Fourth Class academic average. The average CEER score for the Class of 1977 is 574. Using the formula derived on the Class of 1973,** the expected Fourth Class year academic average for a cadet in the Class of 1977 with a CEER score of 574 is 2.372.

(1) Those cadets who have low CEER scores can be expected to have more difficulty in their academic work than those cadets who have high CEER scores.

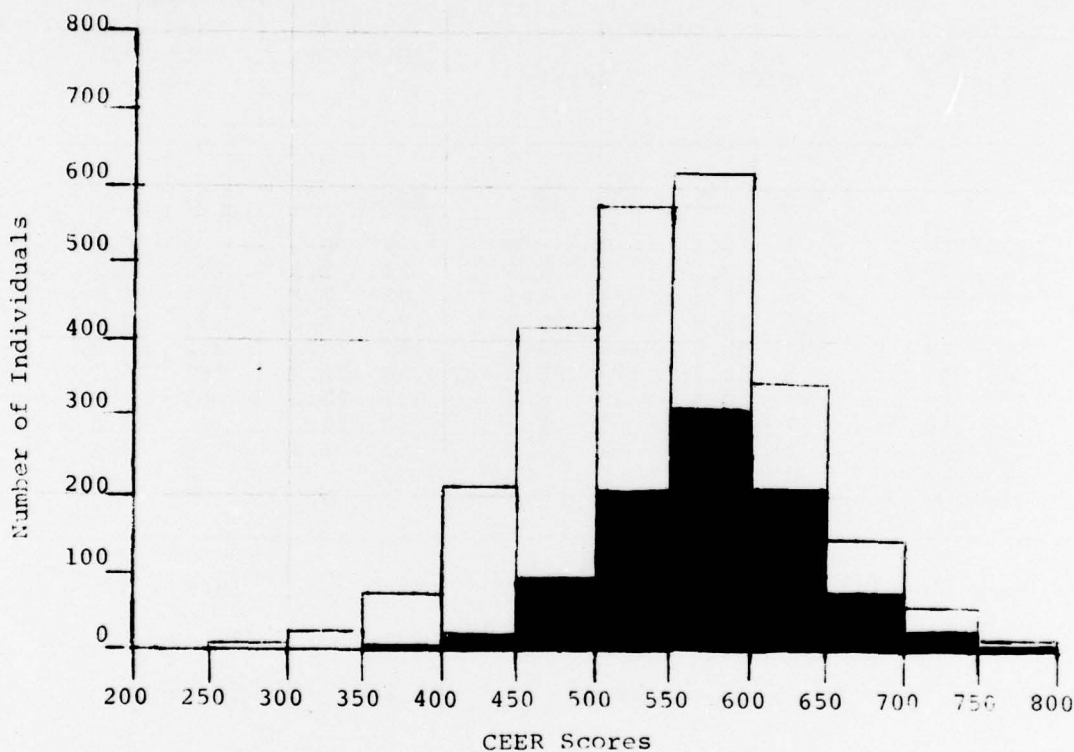
(2) Figure 1 provides a graphic comparison of the number of cadets within each CEER range, as shown in Table 1, with the number of completely examined candidates within the same ranges. Figure 2 shows a similar comparison of candidates and cadets evaluated using ACEER scores.

b. General Potential for Physical Activities. The average Physical Aptitude Examination score of 537 is significantly different from the average of 553 made by the entering Class of 1976. The number of entering cadets with PAE scores below 450, as reported in Table 1, increased from 147 last year to 170 this year. A graphic comparison of the distribution of PAE scores in the Class of 1977 with that in the candidate population from which it was drawn is provided by Figure 3.

c. Leadership Potential. The Leadership Potential Scores are derived from the ratings of the candidate by his secondary school teachers, and evaluations by Admissions Officials of his quality of participation in athletic and other school and community activities. The LPS and PAE have been the best predictors of Aptitude for the Service Rating. The mean LPS for this Class (613) is not significantly different from the mean of the Class of 1976 (609). A graphic comparison of the distribution of Leadership Potential Scores in this Class with that in the candidate population is provided in Figure 4.

**Academic Average = $0.00163 \text{ (CEER)} + 1.43637$; Standard Error of Estimate = 0.10.

	<u>Number</u>	<u>Mean</u>	<u>SD</u>
Candidates	2505	542.82	79.80
Cadets	941	574.44	64.09





No. Candidates	0	3	19	71	212	426	579	620	352	151	64	8
% Entered	0	0	0	2.8	8.0	22.1	35.9	49.5	58.2	50.3	45.3	37.5
No. Cadets	0	0	0	2	17	94	208	307	205	76	29	3

FIGURE 1. COMPARISON OF THE NUMBER OF CADETS (EVALUATED USING CEER) WITH THE NUMBER OF FULLY EXAMINED CANDIDATES (EVALUATED USING CEER) AT EACH CEER SCORE LEVEL FOR THE CLASS OF 1977.

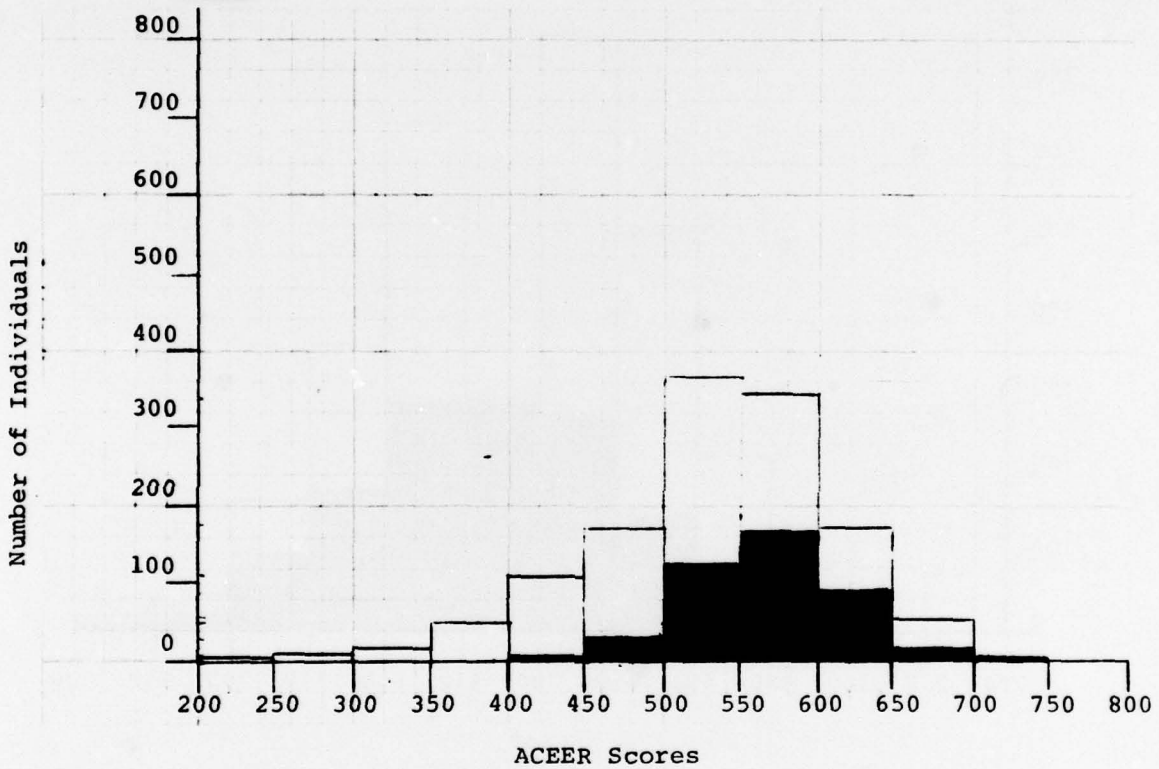
TABLE 1

DISTRIBUTION OF SCORES ON WHOLE MAN SCORE COMPONENTS
FOR THE CLASS OF 1977

Score Ranges	Academic		Physical Aptitude (PAE)		Leadership Potential (LPS)			
	CEER	ACEER						
	No.	%	No.	%	No.	%	No.	%
750-800	3	0.3	0	0	9	0.7	3	0.2
700-749	29	3.1	2	0.5	24	1.8	100	7.3
650-699	76	8.1	23	5.3	102	7.4	364	26.5
600-649	205	21.8	88	20.2	180	13.1	393	28.6
550-599	307	32.6	166	38.2	304	22.2	262	19.0
500-549	208	22.1	123	28.3	305	22.2	161	11.7
450-499	94	10.0	30	6.9	277	20.2	65	4.7
400-449	17	1.8	3	0.7	152	11.1	25	1.8
350-399	2	0.2	0	0	17	1.2	3	0.2
300-349	0	0	0	0	0	0	0	0
250-299	0	0	0	0	1	0.1	0	0
<hr style="border-top: 1px dashed black;"/>								
Total	941		435		1371		1376	
Mean	574.44		569.42		536.64		612.92	
S.D.	64.09		49.30		78.20		67.64	



Candidates 
 Cadets 

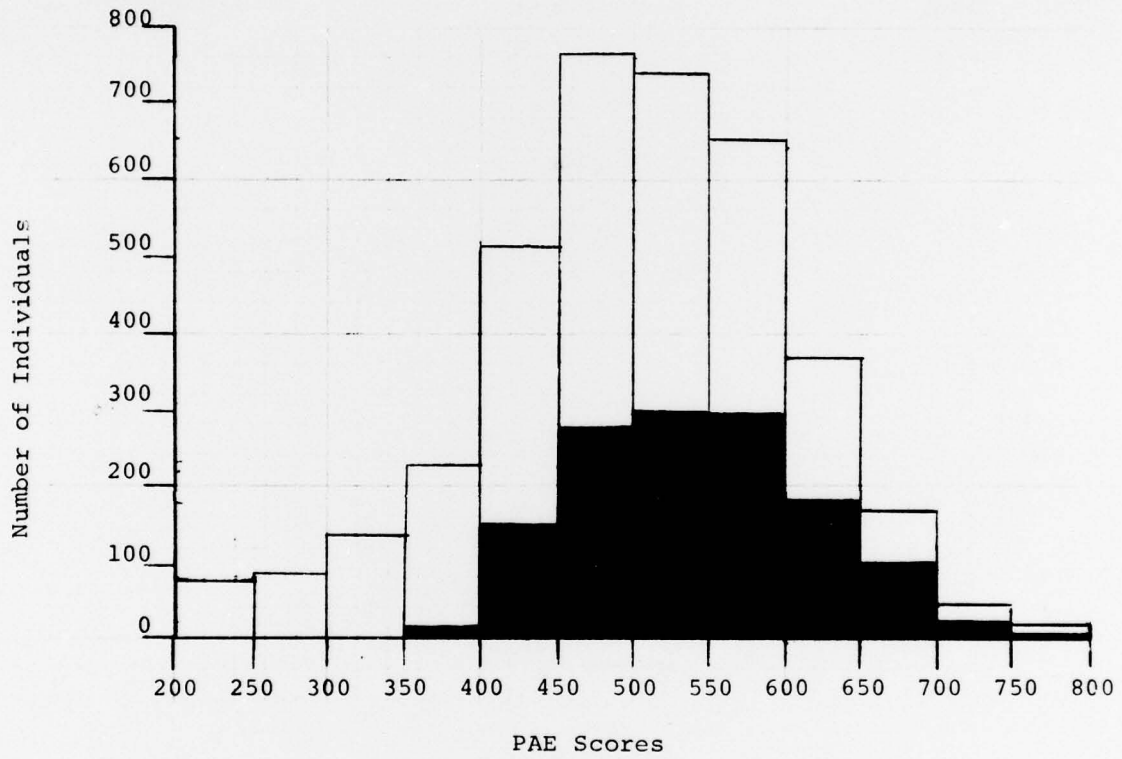
	<u>Number</u>	<u>Mean</u>	<u>SD</u>
Candidates	1307	532.06	77.30
Cadets	435	569.42	49.30



No. Candidates	3	8	19	51	108	176	364	349	176	51	2	0
% Entered	0	0	0	0	2.8	17.0	33.8	47.6	50.0	45.1	100	0
No. Cadets	0	0	0	0	3	30	123	166	88	23	2	0

FIGURE 2. COMPARISON OF THE NUMBER OF CADETS (EVALUATED USING ACEER) WITH THE NUMBER OF FULLY EXAMINED CANDIDATES (EVALUATED USING ACEER) AT EACH ACEER SCORE LEVEL FOR THE CLASS OF 1977.

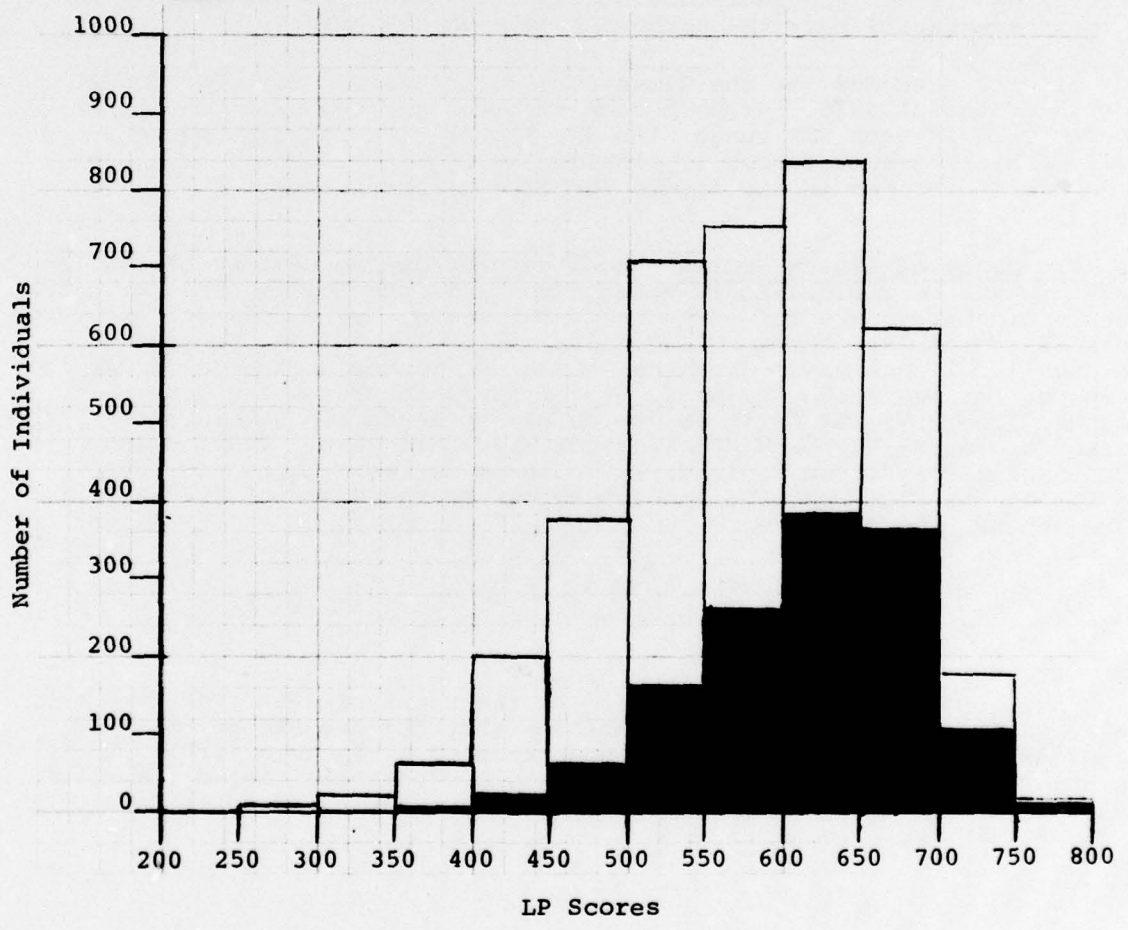
Candidates		Candidates	<u>Number</u>	<u>Mean</u>	<u>SD</u>
			3811	496.64	102.38
Cadets		Cadets	1371	536.64	78.20



No.												
Candidates	79	83	142	231	515	762	740	654	367	174	42	22
% Entered	0	1.2	0	7.4	29.5	36.4	41.2	46.5	49.0	58.6	57.1	40.9
No. Cadets	0	1	0	17	152	277	305	304	180	102	24	9

FIGURE 3. COMPARISON OF NUMBER OF CADETS WITH THE NUMBER OF FULLY EXAMINED CANDIDATES AT EACH PHYSICAL APTITUDE SCORE LEVEL FOR THE CLASS OF 1977.

	<u>Number</u>	<u>Mean</u>	<u>SD</u>
Candidates	3799	576.34	83.72
Cadets	1376	612.92	67.64



No. Candidates	1	3	26	65	201	386	702	759	846	623	182	6
% Entered	0	0	0	4.6	12.4	16.8	22.9	34.5	46.5	58.4	54.9	50.0
No. Cadets	0	0	0	3	25	65	161	262	393	364	100	3

FIGURE 4. COMPARISON OF THE NUMBER OF CADETS WITH THE NUMBER OF FULLY EXAMINED CANDIDATES AT EACH LEADERSHIP POTENTIAL LEVEL FOR THE CLASS OF 1977.

3. Overall Appraisal of Potential for Success at USMA

a. The Whole Man Score is a weighted score consisting of 60% CEER (or ACEER), 10% PAE, and 30% LPS. Table 2 shows the distribution of WMS's in the Class of '77. Moving the decimal point one place to the left converts the WMS to a scale similar to that of its components. Due solely to combining scores, the frequencies of the relatively high and low scores are reduced; i.e., the individuals with the highest scores on one variable do not necessarily have the highest scores on the others.

b. The mean WMS for the Class of 1977 is 5812.2, compared to 5837.3 for the Class of 1976. Graphic comparison of the number of cadets whose scores fall in each WMS range with the number of candidates whose scores fall within the same ranges is provided by Figure 5. The scores have been divided by ten in the figure for ease of comparison.



4. Trends in Admission Scores. Looking only at the Classes of 1976 and 1977 gives a very microscopic view of how well the Academy is attracting outstanding young men for admission. Therefore, trend data are provided for Classes of 1968 through 1977. See Tables 3 and 4 and Figures 6 through 14. These data* show that the academic measures have dropped off somewhat for the recent classes. The leadership scores are generally higher. The Physical Aptitude scores have been fairly stable over this period of years, although dropping slightly this year. Table 5 shows the ACEER and the American College Test Program scores. There were 284 cadets in the Class of 1976 and 435 cadets in the Class of 1977 admitted using these scores.

*The data on High School Rank score for the Class of 1968 come from the Basic Candidate Data Deck. The data for the CEER and PAE on admitted candidates for the Class of 1968 were gathered by Spencer (OIR). The data for the remainder of the variables shown on these tables come from the Class Characteristics reports and from the Basic Candidate Data Decks.

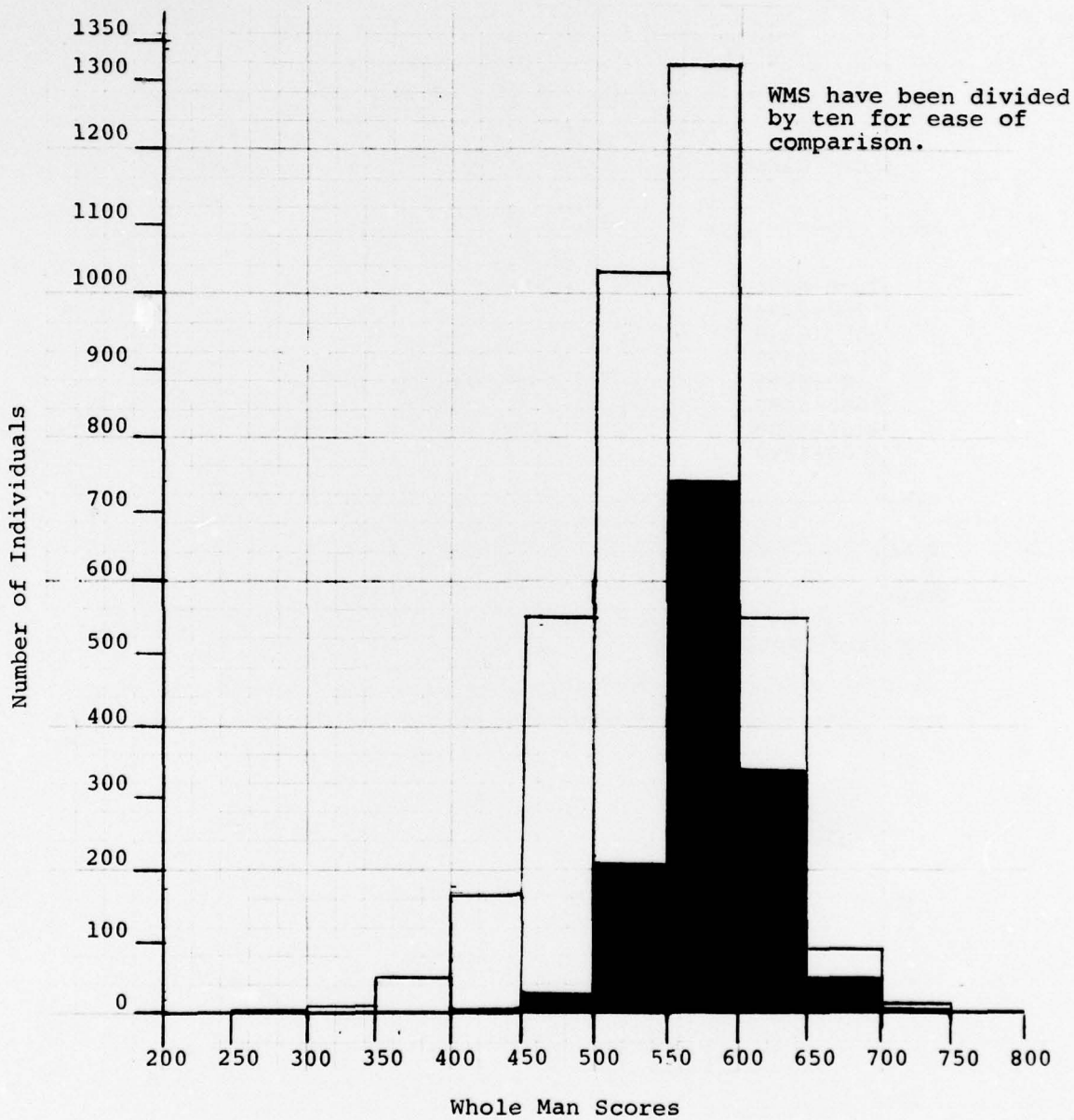
TABLE 2

DISTRIBUTION OF WHOLE MAN SCORES FOR THE CLASS OF 1977

Score Ranges	No.	%
7500-8000	0	0
7000-7499	3	0.2
6500-6999	46	3.3
6000-6499	342	24.9
5500-5999	746	54.2
5000-5499	209	15.2
4500-5000	29	2.1
4000-4499	1	0.1
Total	1376	100
Mean		5812.2
Standard Deviation		365.7

Candidates 
 Cadets 

	<u>Number</u>	<u>Mean</u>	<u>SD</u>
Candidates	3799	546.17	59.31
Cadets	1376	581.22	36.57



No. Candidates	0	1	11	55	174	549	1036	1320	552	93	8	0
% Entered	0	0	0	0	0.6	5.3	20.2	56.5	62.0	49.5	37.5	0
No. Cadets	0	0	0	0	1	29	209	746	342	46	3	0

FIGURE 5. COMPARISON OF THE NUMBER OF CADETS WITH THE NUMBER OF FULLY EXAMINED CANDIDATES AT EACH WHOLE MAN SCORE LEVEL FOR THE CLASS OF 1977.

TABLE 3
 MEANS AND STANDARD DEVIATIONS FOR CEER, LPS, PAE AND WMS
 FOR THE CLASSES OF 1968 THROUGH 1977

CLASS	CEER			LPS*			PAE			WMS*			
	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	
1968	A**	2859	555	78			2832	495	99				
	T	2042	565	75			2042	499	95				
	M	1784	567	75			1784	504	93				
	C	991	601	55			989	536	76				
1969	A	3978	555	72	4283	550	82	4156	508	99	3689	5511	581
	T	3391	561	74	3391	555	81	3391	515	94	3391	5541	572
	M	3051	563	73	3051	556	80	3051	518	93	3051	5561	567
	C	1133	602	54	1132	582	75	1133	548	76	1051	5921	405
1970	A	3333	557	74	3335	552	85	3368	502	100	3029	5529	565
	T	2818	563	72	2818	556	83	2818	508	96	2818	5554	557
	M	2638	564	71	2638	558	82	2638	511	96	2638	5566	550
	C	1017	603	54	1017	594	71	1017	550	77	1017	5953	363
1971	A	3307	559	74	3294	553	84	3276	491	102	3010	5525	573
	T	2705	565	72	2705	559	83	2705	497	100	2705	5559	566
	M	2505	566	72	2505	561	83	2505	501	99	2505	5573	559
	C	1049	598	54	1049	595	70	1049	548	74	1049	5925	365
1972	A	3386	554	76	3382	564	80	3338	519	101	3053	5553	581
	T	2657	561	73	2657	573	77	2657	532	94	2657	5620	557
	M	2514	561	73	2514	573	77	2514	533	94	2514	5618	558
	C	1239	593	54	1239	600	64	1239	561	76	1239	5919	336

*The LPS was calculated differently for Classes before 1969; therefore, the Class of 1968 is not shown for LPS or WMS.

**A = all candidates tested on variables; T = all candidates fully tested on CEER, LPS, PAE and WMS; M = all candidates fully tested and medically qualified; C = admitted candidates who became cadets.

TABLE 3 (Continued)

MEANS AND STANDARD DEVIATIONS FOR CEER, LPS, PAE AND WMS
FOR THE CLASSES OF 1968 THROUGH 1977

CLASS		CEER			LPS*			PAE			WMS		
		N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD
1973	A**	3869	542	77	3851	563	78	3966	511	106	3518	5476	580
	T	3221	548	75	3221	568	77	3221	515	101	3221	5508	596
	M	3041	548	75	3041	569	77	3041	518	100	3041	5516	569
	C	1439	582	57	1439	595	68	1427	547	81	1427	5829	369
1974	A	6519	531	83	7239	574	70	4706	512	105	6213	5427	582
	T	3858	547	78	3735	581	69	3912	514	103	3717	5551	550
	M	3147	553	76	3093	586	76	3168	524	96	3088	5606	534
	C	1373	589	60	1373	609	59	1366	553	82	1373	5912	353
1975	A	6674	520	88	8041	567	77	4477	505	107	6587	5326	623
	T	3832	538	81	3843	573	78	3892	508	105	3797	5461	596
	M	3527	540	80	3533	576	78	3568	511	103	3501	5484	589
	C	1339	582	59	1339	608	65	1336	546	81	1339	5865	356
1976***A	A	6213	518	89	6440	568	76	4323	508	110	6440	5303	636
	T	2943	541	87	3897	575	75	3924	510	108	3897	5437	601
	M	2717	542	83	3593	577	74	3614	514	107	3593	5453	597
	C	1094	580	63	1378	609	57	1375	553	84	1378	5837	351
1977***A	A	6397	515	87	4816	565	81	3056	494	106	4816	5276	640
	T	2505	543	80	2496	576	82	2504	502	102	2496	5488	590
	M	2341	545	79	2336	578	81	2341	504	102	2336	5508	581
	C	941	574	64	1376	613	68	1371	537	78	1376	5812	366

The LPS was calculated differently for Classes before 1969; therefore, the Class of 1968 is not shown for LPS or WMS.

**A = all candidates tested on variables; T = all candidates fully tested on CEER, LPS, PAE and WMS; M = all candidates fully tested and medically qualified; C = admitted candidates who became cadets.

***ACEER scores for the Classes of 1976 and 1977 are shown in Table 5. The "N" for CEER for fully tested candidates, fully tested and medically qualified candidates, and for admitted cadets in the Classes of 1976 and 1977 includes only those who were evaluated using CEER.

TABLE 4
 MEANS AND STANDARD DEVIATIONS FOR SAT-V, SAT-M, ENG-C, MATH-A, AND HSR
 FOR THE CLASSES OF 1968 THROUGH 1977

CLASS	SAT-V			SAT-M			ENG-C			MATH-A			HSR			
	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	
1968	A*	2986	543	94	2986	607	92	2927	523	97	2933	587	95	3263	506	119
	T**	2042	555	88	2042	620	86	2041	536	93	2041	600	90	2040	517	117
	M	1784	557	88	1784	623	85	1783	538	91	1783	603	90	1784	519	117
	C	989	580	72	989	653	62	989	567	74	989	634	71	987	559	104
1969	A	4295	542	90	4293	606	92	4178	521	93	4192	581	98	4413	508	116
	T	3391	550	85	3391	617	87	3391	529	90	3391	590	95	3391	516	114
	M	3051	552	85	3051	619	85	3051	532	90	3051	592	94	3051	518	114
	C	1133	578	70	1133	655	63	1133	566	77	1133	633	75	1133	563	102
1970	A	3633	546	91	3633	606	88	3511	525	92	3526	587	95	3558	508	116
	T	2818	554	87	2818	616	82	2818	532	88	2818	596	92	2818	516	114
	M	2638	555	86	2638	618	81	2638	533	88	2638	598	91	2638	516	114
	C	1017	581	75	1017	654	62	1017	564	77	1017	640	78	1017	561	102

*A = all candidates tested on variables; T = all candidates fully tested on CEER, LPS, PAE and WMS; M = all candidates fully tested and medically qualified; C = admitted candidates who became cadets.

**Number with CEER score may be greater than those with CEER components, as many of the candidates with HSR and Preliminary SAT scores were given an estimated CEER.

TABLE 4 (Continued)
 MEANS AND STANDARD DEVIATIONS FOR SAT-V, SAT-M, ENG-C, MATH-A, AND HSR
 FOR THE CLASSES OF 1967 THROUGH 1976

CLASS	SAT-V			SAT-M			ENG-C			MATH-A			HSR			
	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	
1971	A*	3684	542	93	3684	607	87	3522	527	92	3536	596	93	3490	506	114
	T**	2705	553	87	2705	616	81	2705	535	87	2705	603	90	2706	514	113
	M	2505	553	87	2505	617	81	2505	536	87	2505	604	89	2506	514	112
	C	1049	574	74	1049	649	62	1049	562	74	1049	638	72	1049	551	101
1972	A	3808	540	95	3808	601	89	3629	520	93	3634	587	94	3564	501	118
	T	2657	552	89	2657	614	82	2657	530	88	2657	596	90	2657	509	115
	M	2514	551	89	2514	614	82	2514	530	89	2514	596	91	2514	508	116
	C	1239	579	73	1239	645	61	1239	559	75	1239	630	73	1239	543	105
1973	A	4394	526	93	4394	591	92	4165	509	94	4164	574	94	4101	493	117
	T	3221	536	89	3221	601	86	3221	517	90	3221	582	91	3221	501	114
	M	3041	536	89	3041	602	86	3041	517	90	3041	582	91	3041	501	114
	C	1439	562	77	1439	635	67	1439	546	78	1439	617	76	1439	538	102
1974	A	6519	531	83	6339	577	95	5122	508	94	5110	578	98	7168	492	117
	T	3912	533	92	3911	594	89	3909	512	94	3912	582	97	3858	505	115
	M	3168	539	90	3167	601	86	3165	519	91	3168	590	95	3147	510	113
	C	1373	563	80	1372	633	69	1372	549	81	1373	627	80	1373	552	104

*A = all candidates tested on variables; T = all candidates fully tested on CEER, LPS, PAE and WMS; M = all candidates fully tested and medically qualified; C = admitted candidates who became cadets.

**Number with CEER score may be greater than those with CEER components, as many of the candidates with HSR and Preliminary SAT scores were given an estimated CEER.

TABLE 4 (Continued)
 MEANS AND STANDARD DEVIATIONS FOR SAT-V, SAT-M, ENG-C, MATH-A, AND HSR
 FOR THE CLASSES OF 1967 THROUGH 1976

CLASS	SAT-V		SAT-M		ENG-C		MATH-A		HSR			
	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD
1975												
A*	6239	506	99	6237	567	99	4930	505	93	4933	570	94
T	3877	521	95	3877	581	93	3689	511	91	3703	575	92
M	3554	522	94	3554	583	92	3407	511	91	3417	576	92
C**	1329	554	78	1329	622	70	1329	543	80	1329	614	77
1976***												
A	5539	505	99	5536	564	99	3945	505	96	3965	569	97
T	2942	528	94	2942	586	93	2788	516	95	2787	581	96
M	2716	529	93	2716	588	92	2592	517	95	2591	583	95
C	1094	554	80	1094	624	70	1094	545	82	1094	620	79
1977***												
A	5439	498	96	5439	559	98	3616	499	95	3615	564	95
T	2502	522	91	2503	587	94	2350	512	94	2350	577	95
M	2338	524	90	2339	590	87	2215	513	94	2215	578	95
C	941	545	81	941	619	70	941	538	84	941	607	81

*A = all candidates tested on variables; T = all candidates fully tested on CEER, LPS, PAE and WMS; M = all candidates fully tested and medically qualified; C = admitted candidates who became cadets.

**Ten cadets in the Class of 1975 admitted through use of ACT scores rather than College Entrance Examination Board Scores.

***The "N" for these variables for fully tested candidates, fully tested and medically qualified candidates, and for admitted cadets in the Classes of 1976 and 1967 includes only those who were evaluated using CEER.

TABLE 5

MEANS AND STANDARD DEVIATIONS FOR ACEER, ACT-EN, ACT-MA, ACT-NA, AND HSR FOR THE CLASSES OF 1976 AND 1977

CLASS	ACEER		ACT-EN		ACT-MA		ACT-NA		HSR	
	N	Mean SD	N	Mean SD	N	Mean SD	N	Mean SD	N	Mean SD
1976 A*	1829	508 92	1860	20.2 4.4	1860	25.7 5.6	1859	25.6 5.6	6512	484 120
T	977	511 81	979	20.2 4.2	979	25.9 5.4	979	25.9 5.2	991	488 111
M	893	511 80	895	20.1 4.2	895	25.9 5.3	895	25.9 5.2	897	489 112
C	294	563 50	284	22.0 3.0	284	28.9 3.1	284	28.2 3.7	284	547 98
1977 A*	2475	516 86	2572	20.0 4.4	2572	25.2 5.8	2569	25.3 5.6	6796	491 120
T	1307	532 77	1307	20.5 3.9	1307	26.5 5.2	1307	26.3 4.9	1307	509 110
M	1204	533 76	1204	20.5 3.9	1204	26.6 5.1	1204	26.4 4.8	1204	510 110
C	435	569 49	435	21.7 3.2	435	28.7 3.2	435	27.8 3.9	435	553 94

*A = all candidates tested on variables; T = all candidates fully tested and evaluated using ACEER; M = all candidates fully tested, medically qualified and evaluated using ACEER; C = admitted cadets evaluated using ACEER.

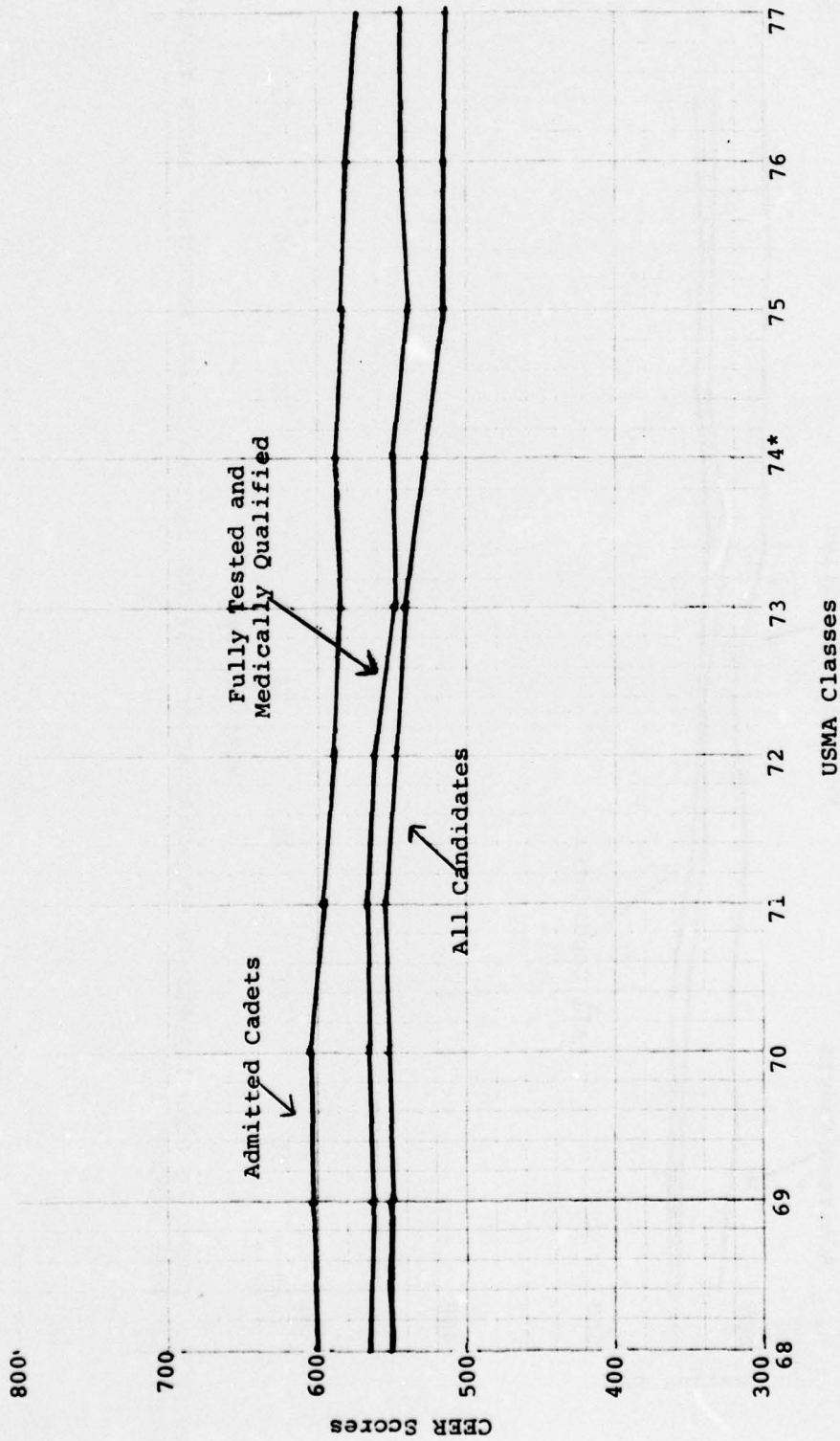


FIGURE 6. TRENDS OF MEAN CEER SCORES FOR THE CANDIDATES AND ENTERING CADETS TO THE CLASSES OF 1968 THROUGH 1977.

*Approximately 80% increase in size of candidate pool in Classes of 74, 75, and 76, and 77.

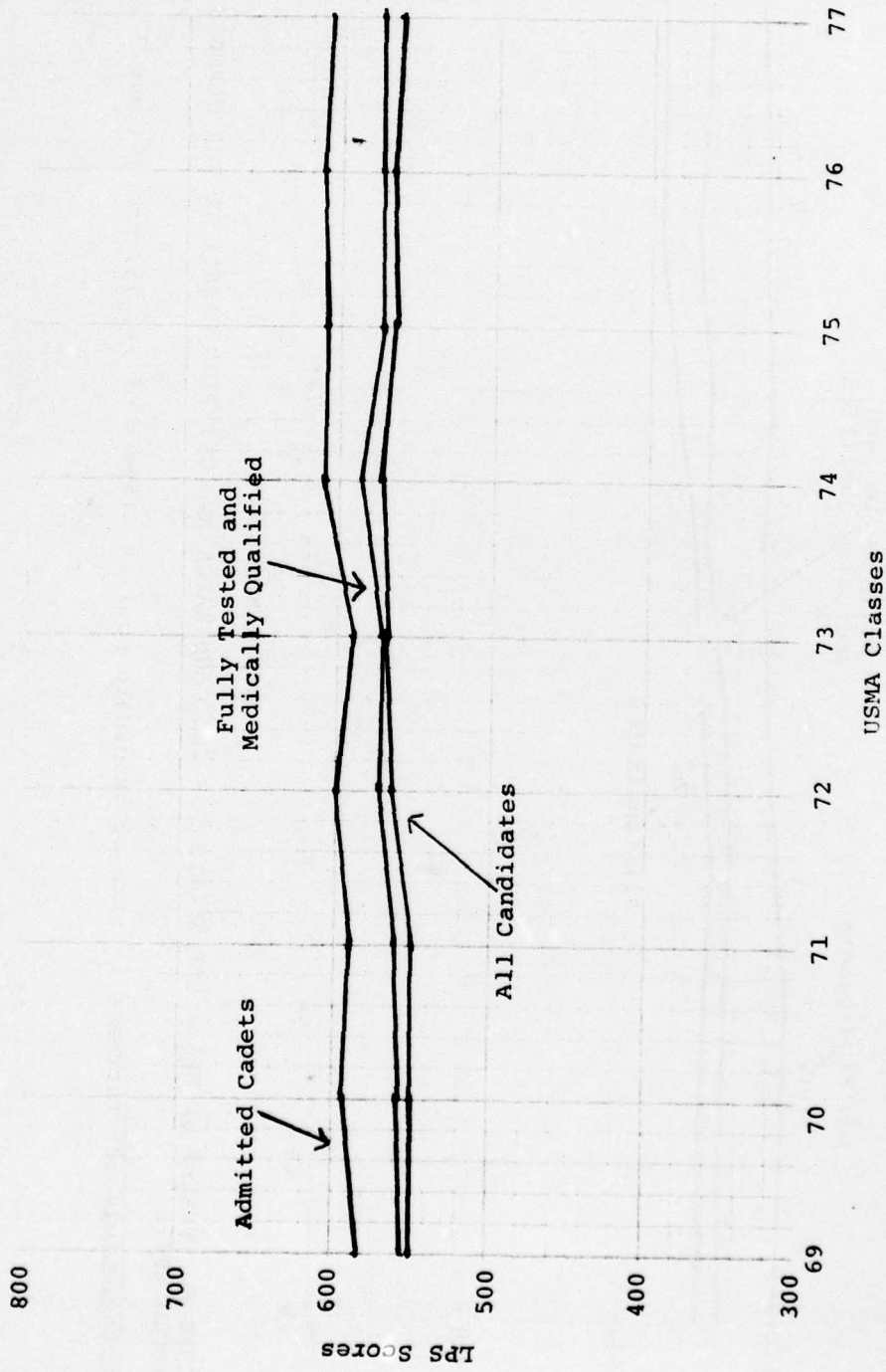


FIGURE 7. TRENDS OF MEAN LEADERSHIP POTENTIAL SCORES FOR THE CANDIDATES AND ENTERING CADETS TO THE CLASSES OF 1969 THROUGH 1977.

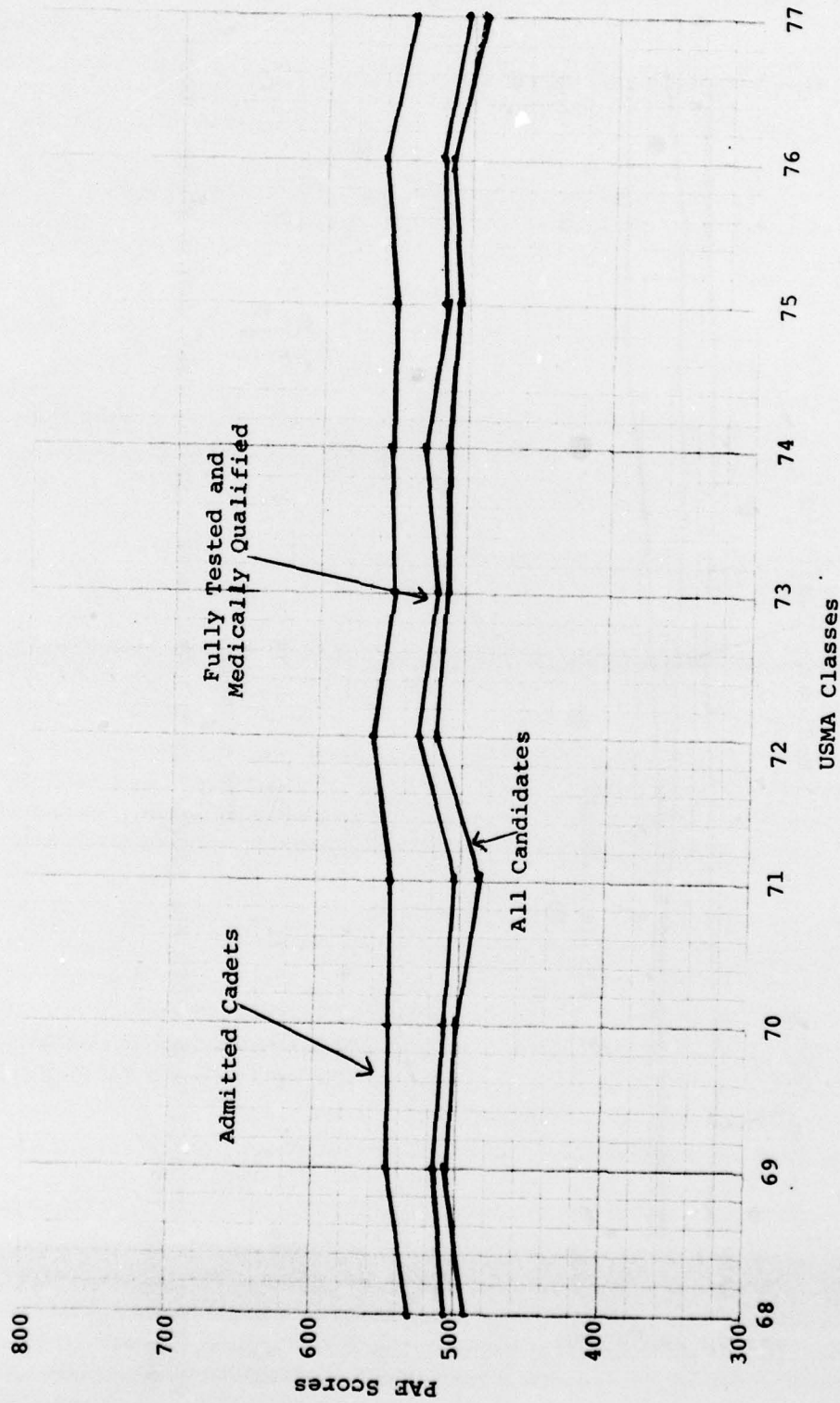


FIGURE 8. TRENDS OF MEAN PAF SCORES FOR THE CANDIDATES AND ENTERING CADETS TO THE CLASSES OF 1968 THROUGH 1977.

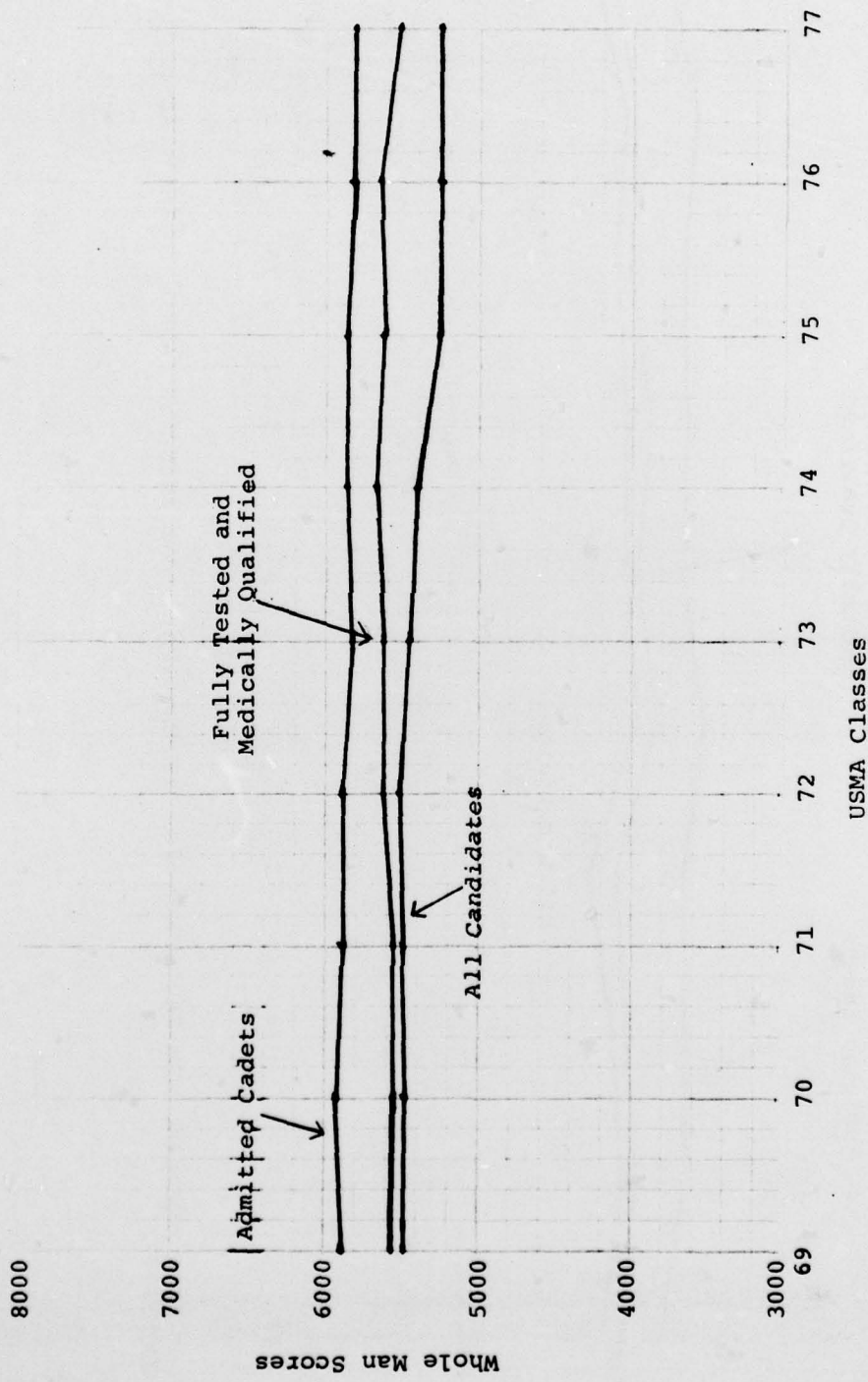


FIGURE 9. TRENDS OF MEAN WHOLE MAN SCORES FOR THE CANDIDATES AND ENTERING CADETS TO THE CLASSES OF 1968 THROUGH 1977.

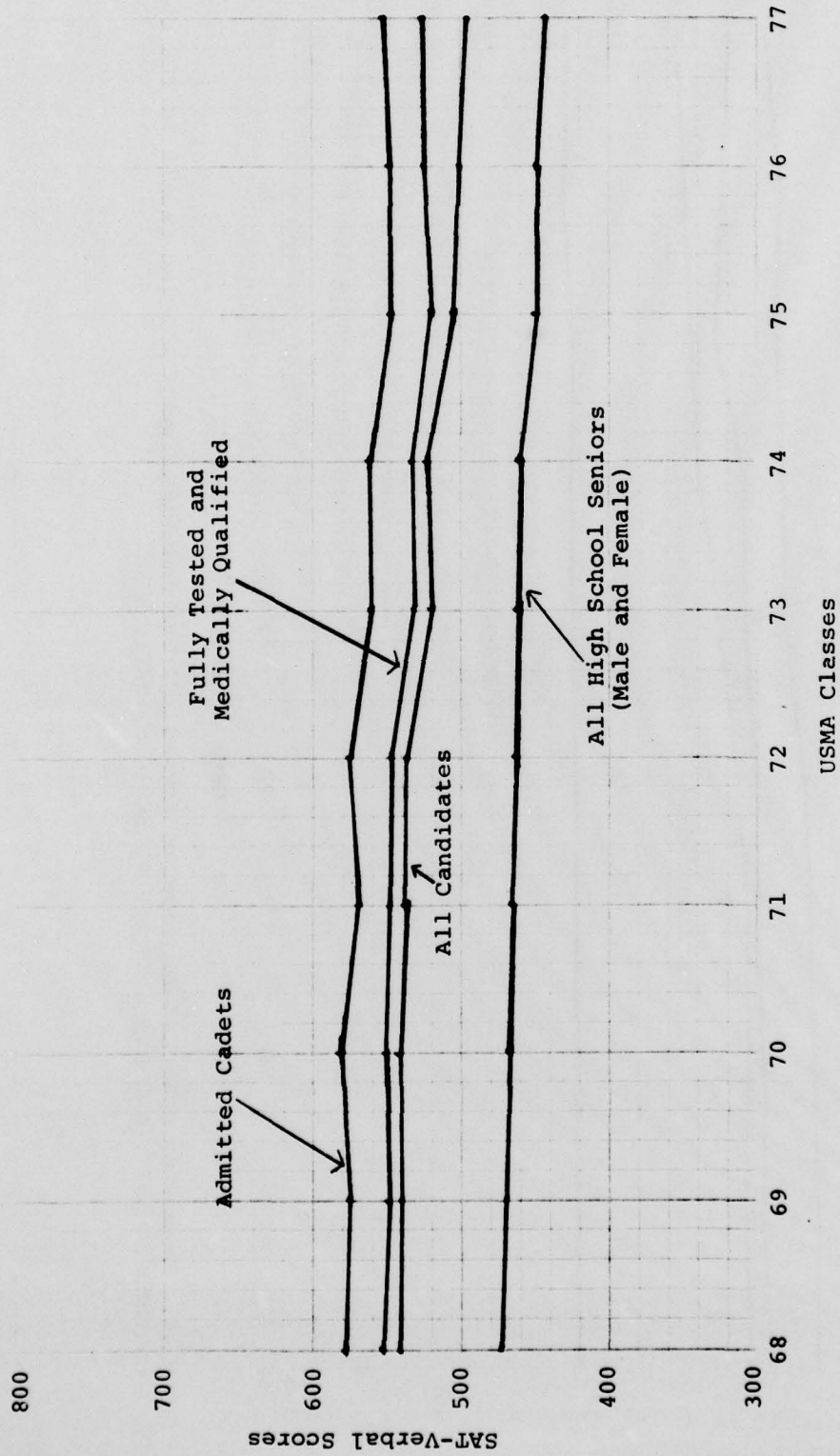


FIGURE 10. TRENDS IN MEAN SAT-VERBAL SCORES FOR THE CANDIDATES AND ENTERING CADETS TO THE CLASSES OF 1968 THROUGH 1977, AND ALL HIGH SCHOOL SENIORS, NATIONWIDE.

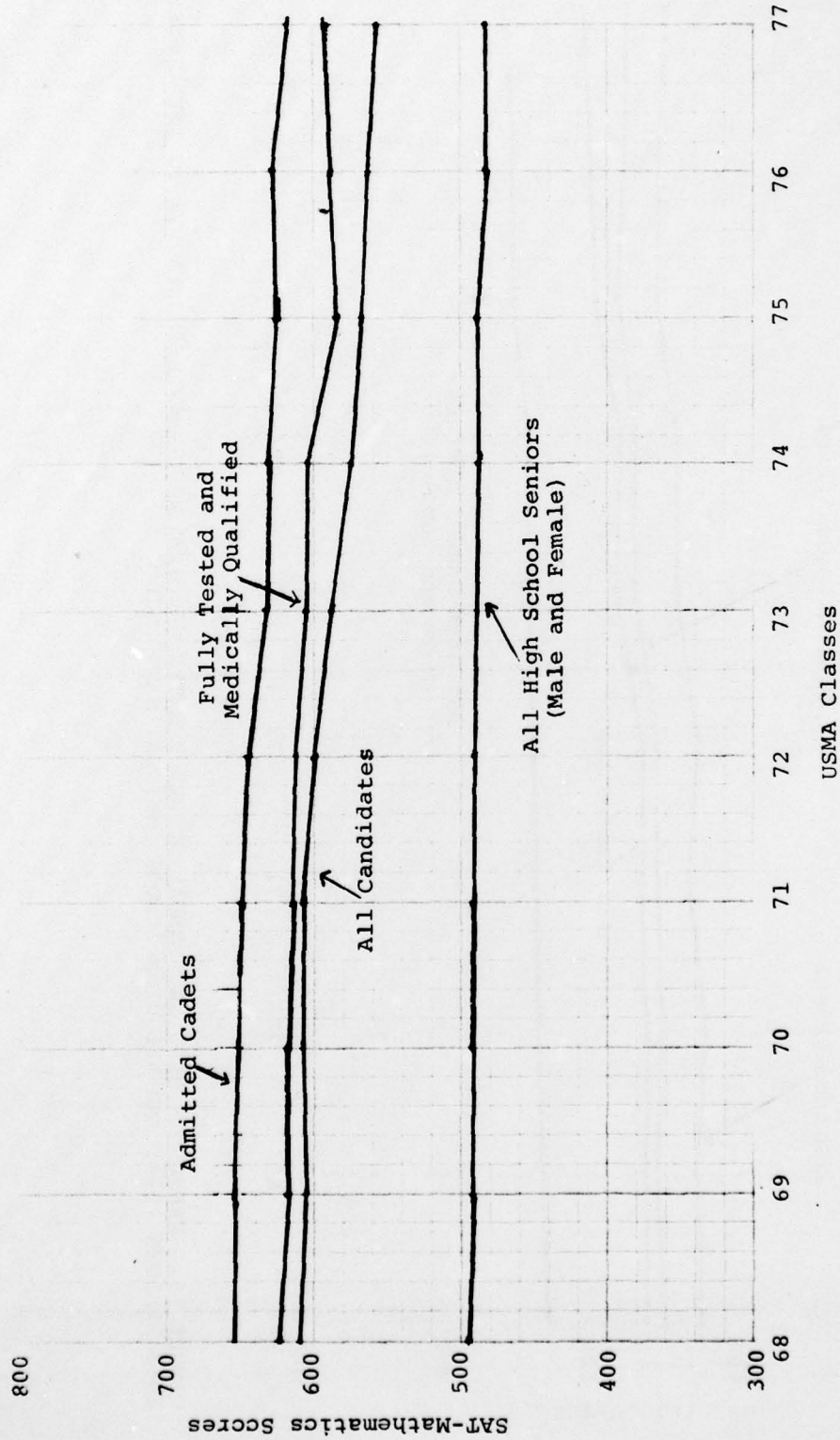


FIGURE 11. TRENDS OF MEAN SAT-MATHEMATICS SCORES FOR THE CANDIDATES AND ENTERING CADETS TO THE CLASSES OF 1968 THROUGH 1977, AND ALL HIGH SCHOOL SENIORS, NATIONWIDE.

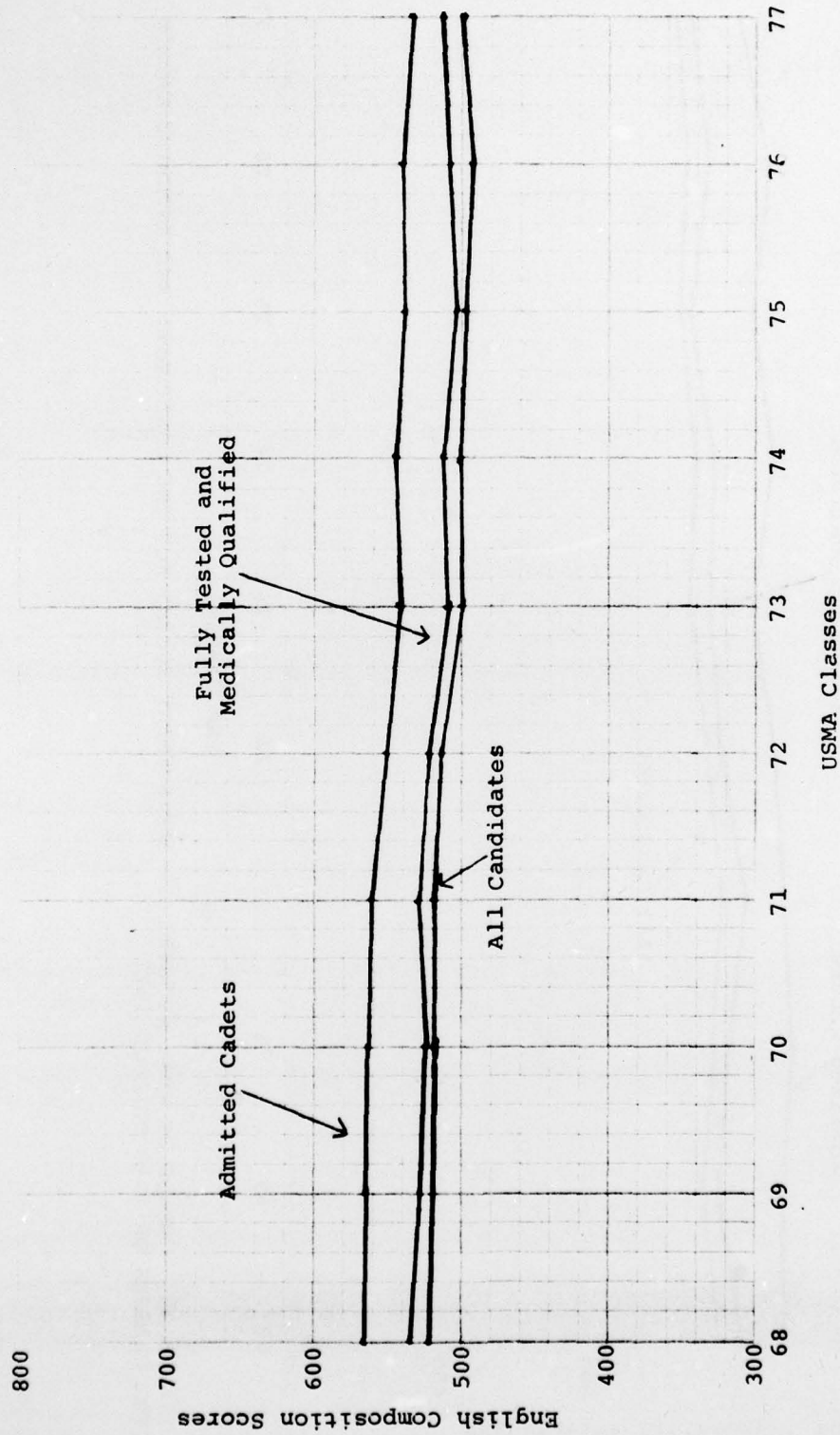


FIGURE 12. TRENDS OF MEAN ENGLISH COMPOSITION SCORES FOR THE CANDIDATES AND ENTERING CADETS TO THE CLASSES OF 1968 THROUGH 1977.

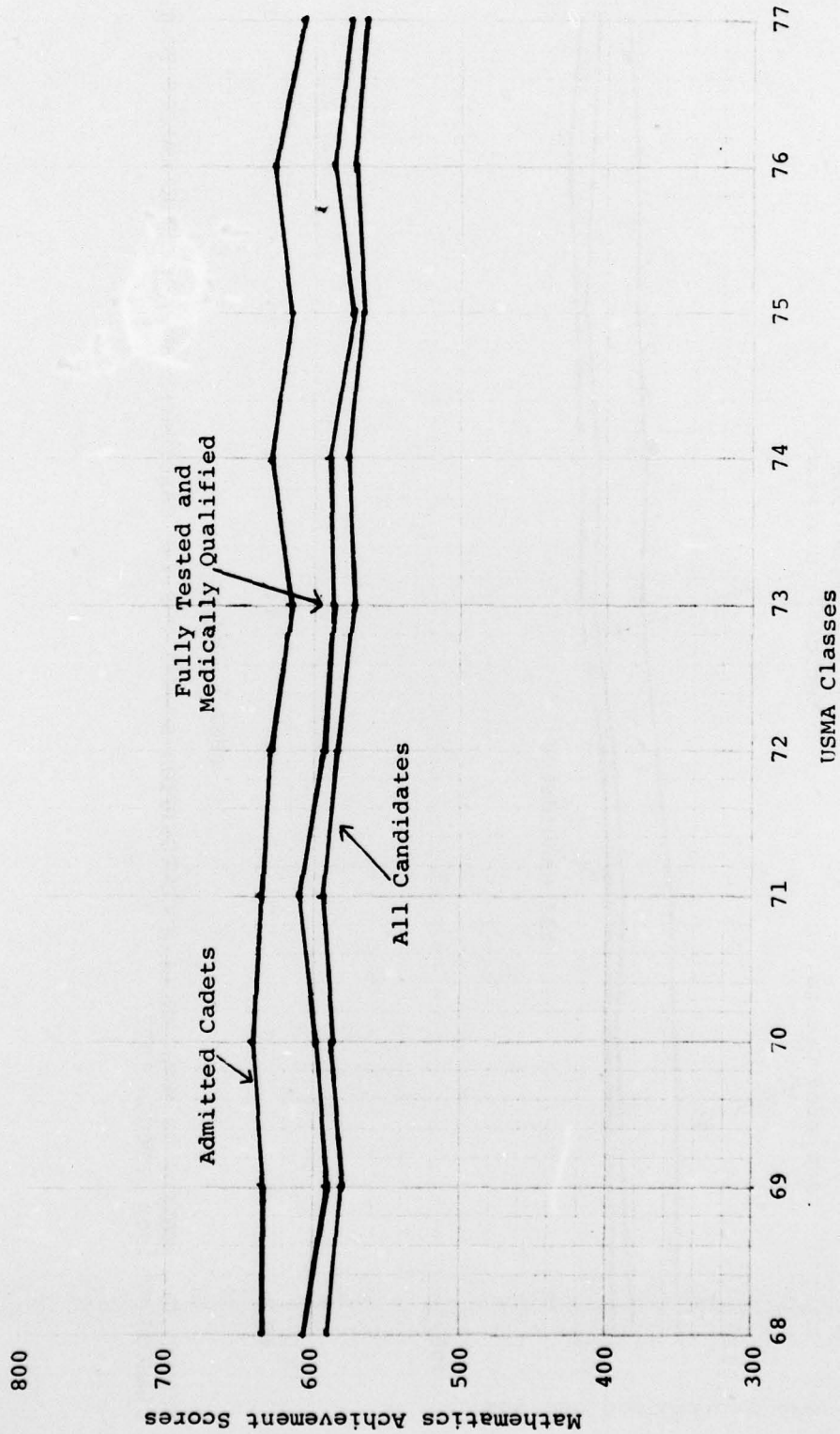


FIGURE 13. TRENDS OF MEAN MATHEMATICS ACHIEVEMENT SCORES FOR THE CANDIDATES AND ENTERING CADETS TO THE CLASSES OF 1968 THROUGH 1977.

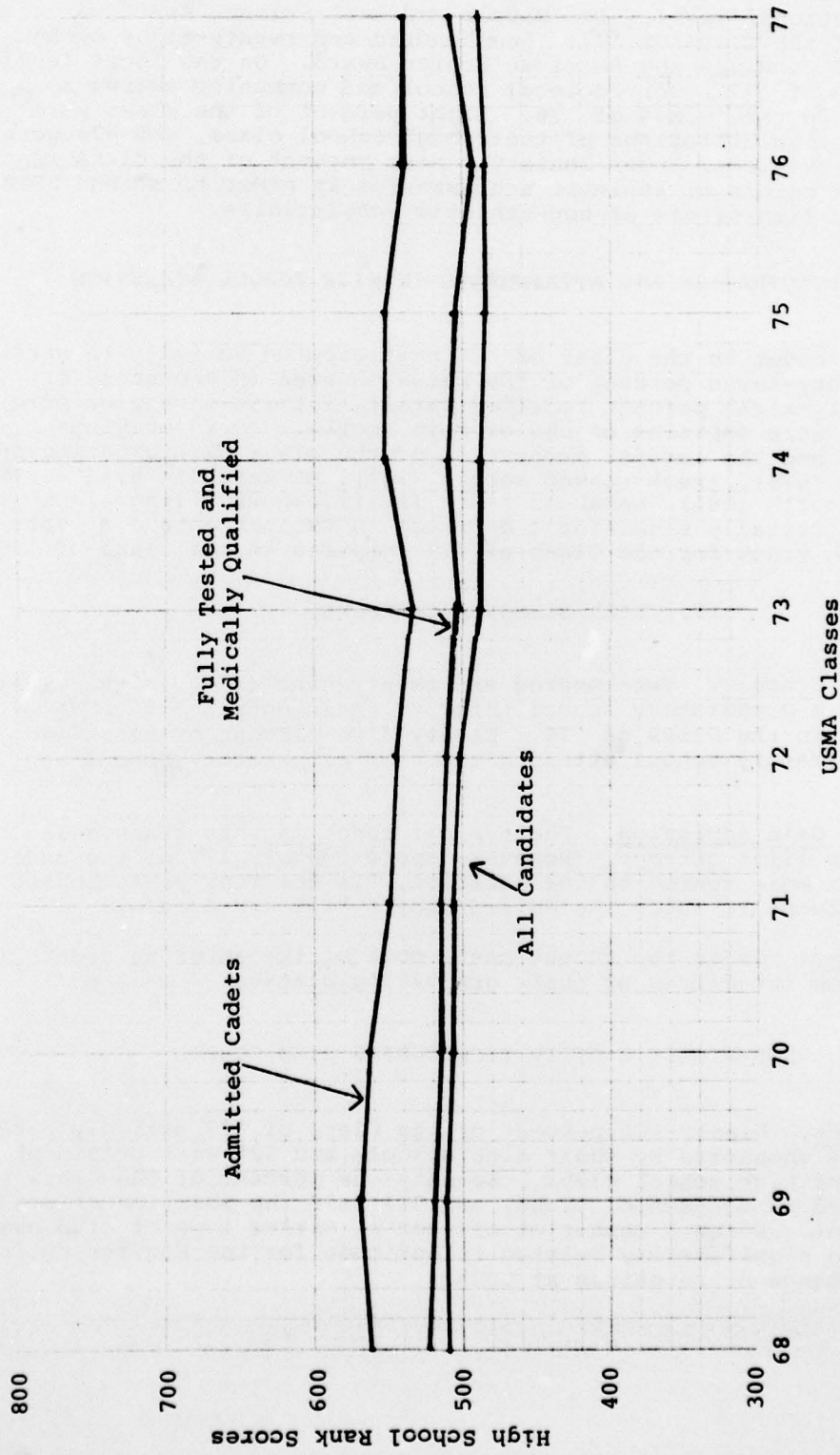


FIGURE 14. TRENDS OF MEAN HIGH SCHOOL RANK SCORES FOR THE CANDIDATES AND CADETS TO THE CLASSES OF 1968 THROUGH 1977.

II. HONORS AND AWARDS

5. The members of the Class of '77 received many honors and awards on both the local and national level. The Bausch and Lomb Science Award was given to 25 members of the Class of '77. One-hundred and twenty-eight members of the Class of '77 received the American Legion Award. On the local level, 382 of the Class of '77 received local school and community awards as compared to 319 in the Class of '76. Eight percent of the class were valedictorians or salutatorians of their high school class, and 47% were appointed to the National Honor Society. Nine percent of the class rejected one or more firm offers of athletic scholarships in order to attend USMA, and 42% rejected firm offers of non-athletic scholarships.

III. PARTICIPATION AND ATTAINMENTS IN HIGH SCHOOL ATHLETICS

6. The typical cadet in the Class of '77 participated actively in varsity athletics. Eighty-seven percent of the class engaged in one sport or another. Seventy-eight percent received varsity letters in one or more sports, and 33% were captains of one or more sports. As in previous years, football had the largest proportion of the class participating on a varsity squad (47%), track ranked second (34%), basketball third (26%), cross-country fourth (18%), baseball fifth (17%), and wrestling sixth (16%). There is a statistically significant decrease in the percentage of varsity participation on track for the Class of '77 compared to the Class of '76.

IV. HIGH SCHOOL BACKGROUND

7. Preparatory Schools. Two-hundred and twenty-nine (17%) in the Class of '77 attended a preparatory school prior to their entrance to USMA compared to 15% in the Class of '76. Eighty-five percent of those who attended a preparatory school attended the USMA Preparatory School at Fort Belvoir.

8. Attempts to Gain Admission. The typical cadet in this class gained admission on his first attempt. However, approximately 17% of the cadets answered "one or more years" to the question, "In how many years before this did you attempt to enter the United States Military Academy?"

9. Rank in Class. As in the recent past, most of the entering cadets (90%) ranked in the top two-fifths of their graduating classes.

V. NON-ATHLETIC ACTIVITIES DURING HIGH SCHOOL

10. School Clubs. Ninety-two percent of the Class of '77 actively participated in clubs sponsored by their high school, and 52% were president or vice-president of high school clubs. Seventy-one percent of the Class of '77 were involved in non-school clubs, and 35% held the position of president or vice-president. Being a member or officer of either type of club has not been found to be significantly related to Aptitude for the Service Ratings, academic performance or retention at USMA.

11. School Officers. The proportion of the Class of '77 who were presidents of their senior class--67 (4.9%), High School Student Council Presidents--86 (6.3%), Senior Class Officers, other than president--184 (13.4%), and presidents of their Student Body--62 (4.5%), is not significantly different than that of the Class of '76. Past experience has indicated that being a school officer has a significant positive correlation at USMA with Aptitude for the Service Ratings, a low negative relationship to academic performance, and a positive correlation with retention.

12. Boys' State and Boys' Nation. Two-hundred and ninety-three members of the Class of '77 participated in the Boys' State program, compared to 270 in the Class of '76. The difference between the Classes of '77 and '76 is not statistically significant.

13. Scouts. Fifty-eight percent of the Class of '77 reported to have been associated with the scouting program as compared to 55% of the Class of '76. Fourteen percent of the Class of '77 reported to have obtained the rank of Eagle Scout, compared to 15% for the Class of '76. The difference in the number of cadets who participated in scouting is not statistically significant.

VI. MILITARY EXPERIENCE OR SERVICE

14. One hundred and ninety-five had military service prior to their arrival at USMA.

VII. PARENTS' MILITARY BACKGROUND

15. Approximately 26% of the cadets in this class have fathers who are or have been military career men. Another 46% of the fathers have had some active military service; only 28% of the cadets indicated that their fathers had no military service. The fathers of 65 members of the Class of 1977 were graduates of USMA.

VIII. COLLEGE BACKGROUND

16. Fifteen percent of the Class of 1977 (201) reported attendance at an institution offering a program of college level studies after their graduation from high school. The reports of these cadets indicated that 56 (28%) had attended college for six months or less, and 145 (72%) attended more than six months. The percentage of students who attended an institution of college level for the Class of 1977 is approximately the same as for the Class of 1976.

IX. TRENDS ON SELECTED CHARACTERISTICS

17. Trends. In order to give a better view of how the cadet population has changed over the past nine classes, Tables 6 and 7 were prepared. The figures are self-explanatory.

X. SUMMARY

Over the ten year period from the entrance of the Class of '68 to the Class of '77 admission variables for the admitted classes show the following trends.:

- a. CEER scores show a stable period from the Classes of '68 to '70, a gradual decrease to the Class of '73, a fairly stable level to the Class of '76 and another decrease for the Class of '77.
- b. SAT-Verbal, SAT-Math, English Composition, and Math Achievement scores show a similar pattern, with the Class of '77 having the lowest scores of the ten year period.
- c. The Whole Man Scores have been fairly stable but have shown a gradual decrease over the last 4 years. The PAE has shown a fairly stable pattern, with the Class of '77 lower than all classes of the past ten years, except '68.
- d. The Leadership Potential Score is the highest since the present method of scoring was started with the Class of '69.
- e. The High School Rank score shows stability for the Classes of '68 through '70, a gradual decrease to the Class of '73, and has been fairly stable since.

TABLE 6
 SELECTED CHARACTERISTICS OF THE ENTERING CADETS
 TO THE CLASSES OF 1968 THROUGH 1976

	CLASS								
	1969	1970	1971	1972	1973	1974	1975	1976	1977
Cadets with 1 or More Semesters College	96 (17.3%)	193 (19.0%)	246 (23.3%)	241 (19.4%)	184 (12.8%)	154 (11.3%)	191 (14.3%)*	194 (14.1%)*	201 (14.6%)
Sons of Alumni of USMA	53 (4.7%)	68 (6.7%)	55 (5.2%)	67 (5.4%)	67 (4.7%)	71 (5.2%)	66 (4.9%)	59 (4.3%)	65 (4.7%)
Attended USMA Preparatory School	62 (5.5%)	96 (9.4%)	118 (11.2%)	125 (10.0%)	130 (9.0%)	188 (13.7%)	147 (11.0%)	156 (11.3%)	194 (14.1%)
Attended Other Preparatory School	57 (5.0%)	57 (5.7%)	59 (5.6%)	71 (5.8%)	70 (4.9%)	101 (7.3%)	41 (3.0%)	51 (3.7%)	35 (2.5%)
Attended Public High School	992 (81.5%)	849 (83.5%)	876 (83.1%)	1023 (82.2%)	1212 (84.3%)	1171 (85.3%)	1122 (83.8%)	1171 (85.0%)	1129 (82.0%)
Attended Private High School	211 (18.5%)	168 (16.5%)	178 (16.9%)	221 (17.8%)	226 (15.7%)	202 (14.7%)	215 (16.1%)	206 (15.0%)	247 (18.0%)
Rank in High School Class									
Top Fifth	889 (78.5%)	809 (79.5%)	806 (76.5%)	938 (75.4%)	1066 (74.1%)	1057 (76.9%)	947 (70.7%)	966 (70.1%)	928 (67.4%)
Second Fifth	177 (15.6%)	144 (14.2%)	164 (15.5%)	235 (18.9%)	264 (18.4%)	229 (16.7%)	280 (20.9%)	297 (21.6%)	317 (23.0%)
Third Fifth	60 (5.3%)	54 (5.3%)	75 (7.1%)	63 (5.1%)	92 (6.4%)	75 (5.5%)	96 (7.2%)	98 (7.1%)	106 (7.7%)
Fourth Fifth	4 (0.4%)	9 (0.9%)	6 (0.6%)	7 (0.6%)	12 (0.8%)	8 (0.6%)	10 (0.8%)	14 (1.0%)	21 (1.5%)
Bottom Fifth	2 (0.2%)	1 (0.1%)	3 (0.3%)	1 (0.1%)	4 (0.3%)	3 (0.2%)	4 (0.3%)	2 (0.2%)	2 (0.2%)
Valedictorians	67 (5.9%)	55 (5.4%)	59 (5.6%)	62 (5.0%)	53 (3.7%)	56 (4.1%)	68 (5.1%)	65 (4.7%)	59 (4.3%)
Salutatorians	35 (3.1%)	41 (4.0%)	40 (3.8%)	35 (2.8%)	56 (3.9%)	57 (4.2%)	40 (3.0%)	32 (2.3%)	53 (3.9%)
N =	1132	1017	1054	1244	1438	1373	1339	1378	1376

*In 1975 through 1977 indicates one or more months of college.

TABLE 7

SELECTED HIGH SCHOOL ACTIVITIES AND AWARDS OF THE ENTERING CADETS TO THE CLASSES OF 1969 THROUGH 1977

	CLASS								
	1969	1970	1971	1972	1973	1974	1975	1976	1977
Senior Class President	89 (7.9%)	83 (8.2%)	110 (10.4%)	88 (7.1%)	84 (5.8%)	64 (4.7%)	69 (5.2%)	55 (4.0%)	67 (4.9%)
Senior Class Officer	127 (11.2%)	117 (11.5%)	114 (10.8%)	105 (8.4%)	137 (9.5%)	175 (12.8%)	117 (8.7%)	110 (8.0%)	184 (13.4%)
Student Body President	77 (6.8%)	63 (6.2%)	105 (10.0%)	55 (4.4%)	75 (5.2%)	102 (7.4%)	57 (4.3%)	60 (4.4%)	62 (4.5%)
School Club President	363 (32.0%)	381 (37.5%)	429 (40.7%)	287 (23.1%)	439 (30.5%)	435 (31.7%)	600 (44.8%)*	701 (50.9%)*	713 (51.8%)
Debate Team	156 (13.8%)	155 (15.2%)	166 (15.7%)	162 (13.0%)	173 (12.0%)	160 (11.7%)	144 (10.8%)	111 (8.1%)	139 (10.1%)
Varsity Lettermen	863 (76.2%)	667 (65.8%)	698 (66.3%)	956 (76.8%)	1068 (74.3%)	1070 (77.9%)	1029 (76.9%)	1112 (80.7%)	1079 (78.4%)
Team Captains**	377 (33.3%)	526 (51.7%)	558 (52.9%)	423 (34.0%)	480 (33.4%)	466 (33.9%)	416 (31.1%)	466 (33.8%)	458 (33.3%)
All Conference	276 (24.4%)	156 (15.4%)	165 (15.7%)	314 (25.2%)	391 (27.3%)	325 (23.7%)	363 (27.1%)	473 (34.3%)	438 (31.8%)
Boy Scouts, All	671 (59.2%)	666 (65.5%)	654 (62.0%)	695 (55.9%)	829 (57.6%)	776 (56.5%)	748 (55.9%)	757 (54.9%)	794 (57.7%)
Boy Scouts, Eagle	150 (13.2%)	157 (15.4%)	208 (19.7%)	168 (13.5%)	184 (12.9%)	176 (12.8%)	205 (15.3%)	204 (14.8%)	190 (13.8%)
Boys State Representative	299 (26.4%)	222 (21.5%)	328 (31.1%)	265 (21.3%)	331 (23.0%)	373 (27.2%)	261 (19.5%)	270 (19.6%)	293 (21.3%)
High School Dramatic Club	156 (13.8%)	163 (16.0%)	159 (15.1%)	181 (14.5%)	187 (13.0%)	193 (14.1%)	189 (14.1%)	169 (12.3%)	151 (11.0%)
Bausch & Lomb Science Award	43 (3.8%)	18 (1.8%)	37 (3.5%)	26 (2.1%)	26 (1.8%)	20 (1.5%)	29 (2.2%)	26 (1.9%)	25 (1.8%)
American Legion Award	90 (7.9%)	101 (9.9%)	94 (8.9%)	90 (7.2%)	104 (7.2%)	128 (9.3%)	108 (8.1%)	120 (8.7%)	128 (9.3%)
Cadets with Prior Service***	100 (8.9%)	121 (11.9%)	142 (13.5%)	161 (13.0%)	134 (9.3%)	193 (14.1%)	163 (12.2%)	165 (12.0%)	195 (14.2%)

*President or Vice President.

**Listed more than once if Captain in more than one sport for Classes of 1970 & 1971.

***Mostly USMA Preparatory School.

SELECTED REFERENCES

- Houston, John W. Characteristics of the Class of 1977. Report No. 9B1.01-74-013, Office of the Director of Institutional Research, November 1973.
- Houston, John W. Admission Scores of the USMA Class of 1977. Report No. 9B1.01-74-016, Office of the Director of Institutional Research, January 1974.
- Houston, John W. New Cadets and Other College Freshmen, Class of 1977. Report No. 1B4.03-74-026, Office of the Director of Institutional Research, April 1974.

UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER 9B1.01-74-027	2. GOVT ACCESSION NO.	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) Trends in Admission Variables through the Class of 1977		5. TYPE OF REPORT & PERIOD COVERED
		6. PERFORMING ORG. REPORT NUMBER
7. AUTHOR(s) John W. Houston		8. CONTRACT OR GRANT NUMBER(s)
9. PERFORMING ORGANIZATION NAME AND ADDRESS Office of the Director of Institutional Research United States Military Academy West Point, New York 10996		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS Project No. 167
11. CONTROLLING OFFICE NAME AND ADDRESS		12. REPORT DATE April 1974
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office) United States Military Academy West Point, New York 10996		13. NUMBER OF PAGES 31 + iii
		15. SECURITY CLASS. (of this report) Unclassified
16. DISTRIBUTION STATEMENT (of this Report) Reproduction of this document in whole or in part must have prior approval of the Superintendent, United States Military Academy, West Point, New York.		15a. DECLASSIFICATION/DOWNGRADING SCHEDULE
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)		18. SUPPLEMENTARY NOTES
19. KEY WORDS (Continue on reverse side if necessary and identify by block number) Class of 1977 College Board Scores Data Analysis American College Testing Program Class Characteristics Fourth Class Admission Scores		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) The United States Military Academy uses the Whole Man concept in the selection of candidates for admission. This concept encompasses three broad ability areas: scholastic, leadership potential, and physical condition and aptitude. The entrance scores for each of these areas are compared with previous classes. The American College Testing Program scores were used to admit 435 cadets to the Class of 1977. These scores are included, but since this is only the second year they were used, there are not enough scores of previous classes to show trends. The Class of 1977 compared to previous classes has a slight decrease in its academic potential. The mean Leadership Potential Score is the highest for the Class of 1977 of any Class since the Class of 1969 when the present method of calculating it was started. The mean Physical Aptitude Examination scores are lower than for all Classes in the past ten years except for the Class of 1968. Trend data for the Classes of 1968 to 1977 are presented. An important point in interpreting the data is that the total number of candidates increased greatly for the Classes of 1974 through 1977 compared to the Classes of 1973 and before.		

DD FORM 1 JAN 73 1473 EDITION OF 1 NOV 65 IS OBSOLETE

UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)