

DOCUMENT RESUME

ED 055 106

TM 000 833

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TITLE Scholastic Aptitude in Minnesota Colleges--1968.
INSTITUTION Minnesota Univ., Minneapolis. Office for Student
Affairs.
PUB DATE 22 Apr 71
NOTE 23p.; v11, n8
EDRS PRICE MF-\$0.65 HC-\$3.29
DESCRIPTORS *Academic Aptitude; Attendance Patterns; *College
Attendance; *College Freshmen; Colleges; *Grade Point
Average; Grades (Scholastic); Post High School
Guidance; Sex Differences; *State Surveys;
Statistical Data
IDENTIFIERS *Minnesota Scholastic Aptitude Test

ABSTRACT

The results of scholastic aptitude surveys of freshmen entering Minnesota colleges in Fall 1965 and Fall 1968, most of whom had been tested as high school juniors in the winters of 1964 and 1967 respectively, are presented. Tables show the distribution of ability of students entering various types of Minnesota colleges.
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UNIVERSITY OF MINNESOTA

Research Bulletin
of the
Office for Student Affairs

Volume 11, Number 8

April 22, 1971

SCHOLASTIC APTITUDE IN MINNESOTA COLLEGES--1968

by

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Scholastic Aptitude in Minnesota Colleges--1968¹

Statewide surveys of scholastic aptitude of Minnesota college freshmen have been conducted periodically since 1937. The results serve to document the levels of academic ability of students entering Minnesota colleges, the distributions of ability among individual colleges and types of colleges, and changes in these distributions as changes have taken place in the nature of educational opportunities available to Minnesota students. The surveys are conducted by the Minnesota College Statewide Testing Program, through which a scholastic aptitude test (currently MSAT--the Minnesota Scholastic Aptitude Test) is administered to virtually every high school student in the junior class of Minnesota high schools. The Statewide Program also collects high school grade averages as a measure of achievement of Minnesota students and reports them to colleges in the form of high school rank (HSR). The program provides the vehicle through which the cooperative efforts of Minnesota colleges combine to make these surveys possible. Results of the surveys through 1959 were summarized by Berdie, Layton, Hagenah, and Swanson (1962), and the following two surveys were reported by Swanson, Merwin, and Berdie (1962, 1965). The current report presents the results of surveys of freshmen entering Minnesota colleges in Fall 1965 and Fall 1968, most of whom had been tested as high school juniors in the Winters of 1964 and 1967 respectively. Included with the information collected on the 1968 students were data on first-term grade average, which were gathered to determine current validities of the scholastic ability measures and to update the expectancy tables that are used to interpret these measures in practical terms for the guidance of

¹ Tabulation and analysis of data for this study were under the direction of Mrs. Veronica Schultz, whose assistance is gratefully acknowledged.

students making college plans. The validity coefficients and expectancy tables are presented in a companion report (Perry, Joselyn, and Swanson, 1971). Because sizable groups are needed to provide stable values in expectancy tables, data for 1967 freshmen were combined with the 1968 data for the smaller colleges. The combined data were used in the computations for the present report as well, and results for combined years are noted in the tables.

Procedure

In 1968 the president of each college in the Association of Minnesota Colleges was contacted with a request to participate in the survey and validation study and to indicate the person who would be responsible for supplying information from the college. The follow-up request for the data went to the colleges in April 1969. Data for the state junior colleges were obtained, after initial approval from each president, from the central computer file for the junior college system. Colleges either supplied complete data on each student without identifying individual students or supplied student names, high schools, and graduation dates so that HSR and MSAT scores could be obtained from Statewide Testing Program files. Data were obtained from all colleges in the Association except Lea College, Minneapolis School of Art, and the College of St. Teresa.

Not all students in Minnesota colleges are from Minnesota high schools, of course. As Table 1 shows, however, Minnesota students make up most of the freshmen in all state-supported systems and a majority of those in the private colleges as well. Table 1 also shows the total number of Minnesota students in the study (including the 1967 freshmen in the smaller colleges)

and numbers for whom HSR and MSAT data were available. In most schools the results should be reasonably representative of the entire freshman class of 1968.

Results

Types of College

Means and standard deviations of HSR and MSAT raw scores for the 1968 freshmen are given by sex and by type of college in Table 2.1. For comparison the same statistics are shown for 1966-67 high school juniors, the class from which most of the freshmen came. As in previous surveys, the liberal arts college students show the highest scholastic aptitude indices and the junior college students the lowest; and the female students have higher average scores than the male students in general and in each type of college except the private junior colleges. The latter make up a small, heterogeneous group of small colleges, some of which are rather specialized. Only two of the five are co-educational, and the men's colleges are specialized in different ways than the women's and they draw quite different kinds of students. The college-going students score higher on MSAT (mean score at the 71st percentile on high school junior norms) than on HSR (mean=64), and the difference between males and females is less marked (67th and 73rd percentiles respectively) on MSAT than on HSR (58 and 70).

Although there are marked differences in average scholastic ability scores among types of colleges, the standard deviations indicate substantial overlap as well. Both the differences and the overlapping are displayed in Fig. 1.1 and 1.2, which portray the mean, mid-third range, and total range for each type of college. In these figures the two-year colleges (GC, Crook-

ston) and the four-year colleges of the University of Minnesota are shown separately.

Similar data for 1965 freshmen are shown in Table 2.2, although the state and private junior colleges are not separated in the 1965 analysis. Comparison of the two tables shows slight increases in scores of male freshmen in the state colleges and university and decreases in scores of state junior college freshmen of both sexes. The trends suggested by these changes seem to be continuations of tendencies that can be noted in earlier reports (Swanson, et al, 1962, 1965). Mean scores of the liberal arts college freshmen have been virtually constant since the 1961 class, and the scores of the junior college students have been declining since then. The increase in state college and university males' scores began with the 1965 freshmen.

The 1968 data show, for the first time, a small decline, slightly greater for females than for males, in the average scholastic aptitude indices for all Minnesota college freshmen. The change is clearly due to the combination of declining scores and markedly greater enrollments in the junior colleges while both enrollments and scholastic aptitude indices in other segments of the educational system remained more constant. There is a suggestion, in the pattern of changes, of a slight break in the traditional tendency of fewer girls than boys at a given level of ability to attend college. This is seen also in the fact that 46 percent of the 1968 freshmen were females, whereas the percentage was 43 in the 1961, 1963, and 1965 groups.

The differences among types of colleges indicate that MSAT norms by type of college, in addition to the statewide entering freshmen norms,

ould be useful; and they are presented in Table 3. Such norms must be used with full realization of the variation among institutions within each type, as shown in the next section.

Individual Colleges

Means and standard deviations of 1968 HSR and MSAT scores for Minnesota freshmen in individual colleges are given by sex in Tables 4.1-4.5. The state colleges are quite similar to each other, but within each of the other types there is considerable variety. Entering freshmen at several of the junior colleges and several of the liberal arts colleges are more similar in scholastic ability to freshmen in state colleges than to those in the average colleges in their own groups. The University of Minnesota, with both two-year and four-year colleges, includes average scores among both the lowest and the highest. The results reflect the diversity of educational opportunities available to Minnesota students, not only in different components of the educational system, but within each component as well.

Attendance Patterns

Tables 5.1 and 5.2 present somewhat different information, showing the proportions of 1966-67 Minnesota high school juniors in each decile of scholastic ability who entered Minnesota colleges in the Fall of 1968, by type of college. Percentages based on HSR in Table 5.1 are quite similar to those based on MSAT in Table 5.2. They show a total of 36 percent of the juniors--33 percent of the girls and 38 percent of the boys--entering a Minnesota college in the Fall after their high school graduation. About 62-64 percent of the boys and 62-64 percent of the girls in the top decile of each measure entered a Minnesota college, whereas only 6-8 percent of students in the bottom deciles did so. More than half the boys in the top

four deciles and about half of those in the next decile entered college, but only in the top two deciles were more than half of the girls in the college group.

The University receives the largest proportions of students in the top three deciles, the state colleges the largest proportions in the next four, and the junior colleges the largest proportions in the lower three deciles. This pattern varies somewhat between males and females, with the state colleges drawing somewhat larger proportions of high ability girls than boys. Very few students from the lower half of the distributions entered liberal arts colleges, but there are students from each decile in each type of college. The junior colleges draw quite evenly from the entire range, though somewhat more heavily from the middle than from either the high or low deciles.

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TABLE 1
Completeness of Data on
Minnesota College Freshmen

Type of College	1968 Entering Freshmen ¹	Minnesota Freshmen		Total in Study ²	HSR Available		MSAT Available	
		1968			N	%	N	%
		N	%					
Lib. Arts	6497	3800	58	4476	4220	94	4232	95
U of M	8665	8427	97	8496	7979	94	7919	93
St. Coll	8438	7558	90	7558	7359	97	6884	91
St. JC	9147	8405	92	8405	6992	84	6272	75
Pr. JC	484	363	75	548	483	88	431	79

¹ From "Fifteenth Annual Survey of Minnesota College and University Enrollments", Minnesota Higher Education Coordinating Commission, November 1968.

² includes 1967 freshmen in small colleges.

TABLE 2.1

Means and Standard Deviations of High School Rank and
MSAT Score for 1966-67 High School Juniors and
1968 Minnesota College Freshmen¹ by
Type of College

Type of College	HSR			MSAT-C Raw Score		
	N	Mean	S.D.	N	Mean	S.D.
			<u>Males</u>			
Liberal Arts	2,098	72.67	22.68	2,076	45.99	11.51
U of M	4,461	66.95	24.43	4,403	42.39	12.07
St. Coll	3,621	54.83	23.01	3,346	35.57	10.41
St. JC	4,229	43.40	24.12	3,831	32.04	11.19
Priv JC	149	49.15	26.27	142	36.85	13.04
Total	14,558	58.08	27.32	13,798	38.35	14.24
HS Jrs	32,182	44.41	28.59	31,849	31.85	13.40
			<u>Females</u>			
Liberal Arts	2,122	82.52	15.03	2,156	48.25	11.54
U of M	3,518	74.36	21.00	3,516	44.76	12.37
St. Coll.	3,738	68.10	21.18	3,516	44.76	12.37
St. JC	2,763	59.51	23.81	2,441	35.03	11.51
Priv JC	334	55.23	25.07	289	34.51	12.30
Total	12,475	70.04	22.65	11,940	41.34	12.64
HS Jrs	31,229	55.88	28.03	30,934	33.94	13.74
			<u>Males and Females</u>			
Liberal Arts	4,220	77.57	19.89	4,232	47.14	11.58
U of M	7,979	70.44	23.32	7,919	43.44	12.26
St. Coll	7,359	61.57	23.08	6,884	37.13	10.88
St. JC	6,992	49.77	25.16	6,272	33.21	11.41
Priv JC	483	53.35	25.57	431	35.28	12.58
Total	27,033	63.60	25.95	25,738	39.74	13.60
HS Jrs	63,411	50.06	28.89	62,783	32.88	13.61

¹ Includes 1967 freshmen in small colleges

TABLE 2.2

Means and Standard Deviations of High School Rank
and MSAT Score for 1965 Minnesota College
Freshmen by Type of College

Type of College	HSR			MSAT-A Raw Score		
	N	Mean	S.D.	N	Mean	S.D.
			<u>Males</u>			
Liberal Arts	2,081	73.19	21.43	2,058	48.31	13.18
U of M	5,166	64.79	24.72	5,215	43.66	13.67
St. Coll	3,522	52.05	22.93	3,489	35.14	11.39
Junior Coll	2,406	47.44	24.43	2,358	34.43	12.19
Total	13,175	59.43	25.50	13,120	40.38	12.91
			<u>Females</u>			
Liberal Arts	2,184	80.82	18.34	2,167	50.72	13.28
U of M	2,606	74.28	21.53	3,634	46.58	13.44
St. Coll	2,825	67.83	21.83	2,799	40.01	12.50
Junior Coll	1,391	63.49	24.52	1,382	39.01	14.46
Total	10,006	72.37	22.22	9,982	44.58	14.04
			<u>Males and Females</u>			
Liberal Arts	5,265	77.09	20.27	4,225	49.55	13.28
U of M	3,772	68.69	23.92	8,849	44.86	13.62
St. Coll	6,347	59.07	23.78	6,288	37.31	12.14
Junior Coll	3,797	53.37	25.66	3,740	36.14	13.27
Total	23,181	65.01	24.98	23,102	42.20	14.12

TABLE 3
 Minnesota Scholastic Aptitude Test Norms for
 High School Juniors and Entering College Freshmen
 1968

<u>Perce-</u> <u>tile</u>	<u>Four-yr.</u> <u>Lib Arts</u>	<u>U of M</u> <u>Four-yr Coll</u>	<u>State</u> <u>Colleges</u>	<u>Junior</u> <u>Colleges</u>	<u>HS</u> <u>Juniors</u>
99	68-75	67-75	61-75	60-75	64-75
98	67	66	59-60	58-59	61-63
95	65	64	56	53	57
90	63	61	52	49	52
80	58	56	46	43	45
75	56	54	44	41	42
70	54	52	43	39	39
60	51	48	39	35	35
50	47	45	36	32	31
40	44	42	34	29	27
30	40	39	31	26	24
25	39	38	29	25	22
20	37	36	27	23	20
10	31	32	24	19	16
5	27	27	20	16	14
2	21-23	20-23	16-17	13	11
1	0-20	0-19	0-15	0-12	0-10

TABLE 4.1

Means and Standard Deviations of High School Rank
and MSAT Score for 1968 Minnesota
Liberal Arts College Freshmen

College Code	HSR			MSAT—3 Raw Score		
	N	Mean	S.D.	N	Mean	S.D.
			<u>Males</u>			
1	184	73.61	19.67	184	45.80	8.73
2	103 ¹	71.50	22.11	103	42.39	10.95
3	73	91.96	8.25	73	59.42	7.83
4	201	71.74	18.86	199	42.14	17.12
5	96 ¹	60.75	25.60	98	38.72	13.71
6	198	79.19	15.70	226	46.14	10.61
7	114	81.01	15.41	114	45.85	10.39
8	129	86.47	11.40	141	51.62	9.41
12	289	75.99	19.26	248	47.25	9.59
13	143 ¹	64.20	23.20	125	40.82	13.13
14	192	84.27	15.41	192	51.29	9.38
17	325	62.75	23.42	321	44.84	10.22
18	16	52.00	25.70	16	38.94	12.17
20	35	51.37	21.86	36	34.03	11.26
Total	2098	72.67	22.68	2076	45.99	11.50
			<u>Females</u>			
1	211	86.09	12.90	211	52.01	8.97
2	140 ¹	80.23	15.09	141	44.17	11.27
3	23	96.52	4.43	24	63.00	5.49
4	227	81.05	15.34	222	45.16	10.64
5	120 ¹	71.49	21.36	120	40.38	11.20
6	237	84.50	11.53	251	49.41	10.09
7	111	82.62	13.27	111	47.76	10.50
8	143	90.67	9.11	153	58.28	7.74
10	275 ¹	75.51	20.66	269	46.38	10.01
11	219	82.84	17.50	220	51.46	10.77
14	151	91.33	7.81	151	55.90	8.62
15	173 ¹	76.38	21.06	187	42.01	10.82
18	41 ¹	73.39	24.97	45	47.69	11.45
20	51 ¹	64.47	22.97	51	34.43	11.47
Total	2122	82.52	15.03	2156	48.25	11.54

TABLE 4.1 (cont.)

Means and Standard Deviations of High School Rank
and MSAT Score for 1968 Minnesota
Liberal Arts College Freshmen

College Code	HSR			MSAT-C Raw Score		
	N	Mean	S.D.	N	Mean	S.D.
	<u>Males and Females</u>					
1	395	80.28	17.53	395	49.12	9.83
2	243 ¹	76.53	18.85	244	43.42	11.15
3	96	93.05	7.74	97	60.31	7.46
4	428	76.86	17.89	421	43.73	10.96
5	216 ¹	67.44	25.05	218	39.36	12.45
6	435	82.08	13.85	477	48.15	10.42
7	225	81.80	14.38	225	46.79	10.46
8	272	88.68	10.46	294	56.04	8.88
10	275 ¹	75.51	19.38	269	46.38	10.01
11	219	82.84	17.50	220	51.46	10.77
12	289	75.99	19.26	248	47.25	9.59
13	143 ¹	64.20	23.20	125	40.82	13.13
14	343	87.38	13.11	343	53.32	9.32
15	173 ¹	76.38	21.06	187	42.01	10.82
17	325	62.75	23.42	321	44.84	10.22
18	57 ¹	67.39	26.77	61	45.39	12.17
20	86 ¹	59.14	23.31	87	34.26	11.32
Total	4220	77.57	19.89	4232	47.14	11.58

¹ 1967 students included

TABLE 4.2

Means and Standard Deviations of High School Rank
and MSAT Raw Score for 1968
University of Minnesota Freshmen

College	HSR			MSAT-C Raw Score		
	N	Mean	S.D.	N	Mean	S.D.
			<u>Males</u>			
AFHE	274	71.01	16.58	243	39.92	10.06
CLA	1871	73.80	17.88	1897	47.03	9.69
Crookston ¹	157	41.75	21.88	130	29.52	10.42
Duluth	748	59.62	24.68	728	37.98	11.15
Education ^{1,2}	21	69.86	16.04	22	43.36	9.12
GC	534	32.20	18.36	531	28.31	7.76
IT	614	85.93	12.44	614	48.73	10.39
Morris	242	76.62	15.70	238	44.09	9.15
Total	4461	66.95	24.43	4403	42.39	12.07
			<u>Females</u>			
AFHE	198	77.16	16.31	182	42.55	11.66
CLA	2062	79.42	15.93	2088	48.63	10.30
Crookston ¹	20	63.05	27.39	21	34.10	12.50
Dent Hyg ¹	31	83.56	17.29	31	51.13	7.71
Duluth	621	75.25	19.97	606	41.73	11.80
Education ^{1,2}	50	79.68	14.85	50	40.22	9.89
GC	334	37.77	20.08	337	27.03	8.50
IT	26	90.35	9.63	26	55.23	9.47
Morris	176	83.14	14.74	175	45.58	10.77
Total	3518	74.86	21.00	3516	44.76	12.37
			<u>Males and Females</u>			
AFHE	472	73.59	16.73	425	41.04	10.84
CLA	3933	76.75	17.14	3985	47.74	10.02
Crookston ¹	177	44.15	23.47	151	30.16	10.80
Dent Hyg ¹	31	83.56	17.29	31	51.13	7.71
Duluth	1369	66.36	23.99	1334	39.31	11.64
Education ^{1,2}	71	76.77	15.76	72	41.18	9.71
GC	868	34.35	19.22	868	27.82	8.08
IT	640	86.11	12.37	640	48.94	10.49
Morris	418	79.37	15.62	413	44.67	10.01
Total	7979	70.44	23.32	7919	43.44	12.26

¹ 1967 students included

² The College of Education accepts freshmen only in the Physical Education and Recreation Leadership programs.

TABLE 4.3

Means and Standard Deviations of High School Rank
and MSAT Scores for 1968 Minnesota
State College Freshmen

College Code	HSR			MSAT Raw Score		
	N	Mean	S.D.	N	Mean	S.D.
			<u>Males</u>			
1	466	53.77	22.78	391	34.23	10.11
2	943	50.52	25.17	935	34.58	10.49
3	426	59.15	21.20	429	37.18	10.24
4	999	59.05	22.30	950	37.18	10.30
5	328	52.27	21.94	279	33.11	9.98
6	359	53.47	22.54	362	35.30	10.51
Total	3621	54.83	23.01	3346	35.57	10.41
			<u>Females</u>			
1	433	69.48	21.39	368	37.61	11.30
2	1106	63.42	23.19	1091	37.09	11.11
3	454	71.55	18.60	460	39.39	10.83
4	1076	72.24	18.67	1035	40.87	10.72
5	420	65.77	20.87	368	37.13	11.21
6	249	65.18	22.71	216	38.01	11.04
Total	3738	68.10	21.18	3538	38.61	11.10
			<u>Males and Females</u>			
1	899	61.33	23.47	759	35.87	10.83
2	2049	57.48	24.51	2026	35.94	10.90
3	880	65.66	20.83	889	38.32	10.60
4	2075	65.89	21.53	1985	39.10	10.68
5	748	59.85	22.37	647	35.40	10.87
6	708	57.59	23.28	578	36.31	10.78
Total	7359	61.57	23.08	6884	37.13	10.88

TABLE 4.4

Means and Standard Deviations of High School Rank
and MSAT Scores for 1968 Minnesota State
Junior College Freshmen

College Code	HSR			MSAT Raw Scores		
	N	Mean	S.D.	N	Mean	S.D.
			<u>Males</u>			
1	272	48.57	26.38	243	33.82	12.59
3	113	49.65	24.40	118	32.69	11.93
4	78	42.27	25.41	69	33.77	11.53
6	146	40.60	23.27	143	32.44	12.00
7	173	50.83	25.60	170	34.10	11.22
8	168	44.15	25.08	152	30.84	12.52
9	451	44.43	23.87	375	33.38	11.61
10	203	52.01	25.42	218	37.17	11.73
11	174	42.43	23.69	198	31.43	10.73
12	235	44.76	25.75	154	31.59	10.70
15	212	36.07	22.33	191	29.62	11.09
16	88	49.56	25.13	84	32.02	11.73
17	499	43.39	23.17	460	30.73	10.57
18	436	42.86	22.67	392	30.27	9.83
19	518	39.62	22.70	464	31.58	10.42
20	405	44.15	22.36	349	30.98	10.27
21	58	52.28	25.77	51	33.18	11.62
Total	4229	43.40	24.12	3831	32.04	11.19
			<u>Females</u>			
1	198	63.88	24.57	169	38.86	11.83
3	81	65.25	22.61	79	34.14	11.78
4	42	68.33	21.59	36	38.14	11.29
6	90	63.77	23.38	77	37.31	12.46
7	177	64.96	22.81	173	39.84	12.20
8	107	55.88	25.08	97	34.12	12.48
9	462	61.80	23.23	352	36.96	11.56
10	146	63.70	19.99	157	38.40	11.78
11	83	58.16	22.61	83	34.60	11.13
12	113	57.92	24.94	76	34.45	10.05
15	123	47.91	24.35	109	29.08	9.78
16	51	60.98	24.55	49	35.51	11.56
17	300	58.88	22.70	272	32.44	10.24
18	233	58.42	23.92	210	33.28	11.29
19	278	51.88	23.71	256	34.55	11.09
20	225	57.53	23.29	204	32.46	10.19
21	54	65.70	26.02	42	33.98	11.05
Total	2763	59.51	23.81	2441	35.03	11.51

TABLE 4.4 (cont.)

Means and Standard Deviations of High School Rank
and MSAT Scores for 1968 Minnesota State
Junior College Freshmen

College Code	HSR			MSAT Raw Scores		
	N	Mean	S.D.	N	Mean	S.D.
	<u>Males and Females</u>					
1	470	55.02	26.70	412	35.07	12.36
3	194	56.16	24.84	197	33.27	11.87
4	120	51.39	27.10	105	35.27	11.58
6	236	49.44	25.85	220	34.15	12.36
7	350	57.94	25.21	343	37.00	12.05
8	275	48.71	25.68	249	32.12	12.58
9	913	53.22	25.08	727	35.11	11.72
10	349	56.90	23.98	375	37.69	11.75
11	257	47.51	24.44	281	32.37	10.93
12	348	49.03	26.19	230	32.53	10.55
15	335	40.46	23.73	300	29.42	10.62
16	139	53.75	25.44	133	33.31	11.74
17	799	49.20	24.18	732	31.36	10.47
18	669	48.28	24.26	602	31.32	10.45
19	796	43.90	23.77	720	32.63	10.75
20	630	48.93	23.57	553	31.52	10.26
21	112	58.75	26.64	93	33.54	11.31
Total	6992	49.77	25.16	6272	33.21	11.41

TABLE 4.5

Means and Standard Deviations of High School Rank
and MSAT Score for 1968 Minnesota Private
Junior College Freshmen

College Code	HSR			MSAT-C Raw Score		
	N	Mean	S.D.	N	Mean	S.D.
			<u>Males</u>			
2	32 ¹	61.47	23.57	36	38.19	12.54
14	46 ¹	54.50	27.08	47	44.36	11.80
23	71	40.13	23.89	59	30.05	10.68
Total	149	49.15	26.27	142	36.85	13.04
			<u>Females</u>			
2 ¹	39	66.95	25.16	41	39.59	12.71
13	24	52.75	26.85	24	33.12	14.49
22	172	54.73	24.04	140	33.93	10.24
23	99	52.08	25.30	84	33.39	14.08
Total	334	55.23	25.07	289	34.51	12.30
			<u>Males and Females</u>			
2 ¹	71	64.48	24.44	77	38.94	12.57
13	24	52.75	26.85	24	33.12	14.49
14 ¹	46	54.50	27.08	47	44.36	11.80
22	172	54.74	24.04	140	33.93	10.24
23	170	47.09	25.34	143	32.01	12.85
Total	483	53.35	25.57	431	35.28	12.58

¹ 1967 students included

TABLE 5.1

Percentages of Minnesota High School Juniors
of 1967 Entering Minnesota Colleges in
Fall 1968 by High School Rank

e	Four-Year Liberal Arts		U of M		State Colleges		State JC		Private JC		Total All Colleges		66-67 HS Juniors	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Males														
503	21.8	786	34.1	200	8.7	115	5.0	7	.3	1611	69.9	2303	7.2	
384	16.2	767	32.3	324	13.6	187	7.8	3	.1	1665	70.0	2377	7.4	
281	10.7	647	24.7	404	15.4	279	10.6	6	.2	1617	61.6	2622	8.1	
223	7.9	493	17.5	460	16.3	363	12.0	7	.2	1546	54.9	2815	8.7	
159	5.4	428	14.5	462	15.6	389	13.2	6	.2	1444	48.9	2955	9.2	
121	3.6	289	8.7	447	13.5	430	13.0	3	.1	1290	38.9	3320	10.3	
65	1.8	200	5.5	422	11.7	476	13.2	8	.2	1171	32.4	3611	11.2	
38	1.0	156	4.2	229	6.2	401	10.8	5	.1	829	22.4	3702	11.5	
24	.6	330	2.9	148	3.7	330	8.2	11	.2	630	15.6	4036	12.5	
9	.2	58	1.3	69	1.6	201	4.5	2	.1	339	7.6	4441	13.8	
1807	5.6	3941	12.2	3165	9.8	3171	9.9	58	.2	12142	37.7	32182	100.0	
Females														
716	19.2	886	23.8	504	13.5	179	4.8	21	.6	2306	61.9	3726	11.9	
411	10.4	717	18.1	693	17.5	311	7.9	16	.4	2148	54.3	3956	12.7	
236	6.4	510	13.9	541	14.7	278	7.6	19	.5	1584	43.1	3674	11.8	
131	3.7	366	10.3	510	14.4	299	8.4	21	.6	1327	37.3	3553	11.4	
63	1.9	223	6.8	429	13.0	283	8.6	18	.5	1016	30.9	3292	10.5	
47	1.5	172	5.5	275	8.9	269	8.7	32	1.1	796	25.6	3105	9.9	
20	.7	84	3.0	177	6.4	193	6.9	21	.8	495	17.8	2788	8.9	
12	.4	58	2.1	111	4.0	151	5.4	19	.7	351	13.4	2626	8.4	
4	.2	47	2.0	60	2.6	88	3.8	9	.4	208	9.0	2321	7.4	
4	.2	24	1.1	22	1.0	66	3.0	7	.3	123	5.0	2188	7.0	
1644	5.3	3087	9.9	3322	10.6	2117	6.8	184	.5	10354	33.2	31229	100.0	
Males and Females														
1219	20.2	1672	27.7	704	11.7	294	4.9	28	.5	3917	65.0	6029	9.5	
795	12.6	1484	23.4	1017	16.1	498	7.9	19	.3	3813	60.2	6333	10.0	
517	8.2	1157	18.4	945	15.0	557	8.8	25	.4	3201	50.8	6296	9.9	
354	5.6	859	13.5	970	15.2	662	10.4	28	.4	2873	45.7	6368	10.0	
222	3.6	651	10.4	891	14.3	672	10.8	24	.4	2460	39.4	6247	9.9	
168	2.6	461	7.2	722	11.2	699	10.9	36	.6	2086	32.5	6425	10.1	
85	1.3	284	4.4	599	9.4	669	10.5	29	.5	1666	26.0	6399	10.1	
50	.8	214	3.4	340	5.4	552	8.7	24	.4	1180	18.6	6328	10.0	
28	.4	164	2.6	208	3.3	418	6.6	20	.3	838	13.2	6357	10.0	
13	.2	82	1.2	91	1.4	267	4.0	9	.1	462	7.0	6629	10.5	
3451	5.5	7028	11.1	6487	10.2	5288	8.3	242	.4	22496	35.5	63411	100.0	

The last column is the percent of the total across deciles. The other percentages are based on the total within each decile.

TABLE 5.2

Percentages of Minnesota High School Juniors
of 1967 Entering Minnesota Colleges
in Fall 1968 by MSAT Score

MSAT-C Decile	Four-Year Liberal Arts		U of M		State Colleges		State JC		Private JC		Total All Colleges		66-67 HS Juniors	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Males														
10	586	20.7	893	31.5	295	10.4	180	6.4	11	.4	1965	69.3	2834	8.9
9	485	15.6	857	27.7	326	10.5	232	10.3	9	.3	2000	64.4	3108	9.8
8	263	9.6	636	23.3	430	15.7	299	10.9	4	.1	1632	59.8	2731	8.6
7	213	7.9	479	17.8	434	16.1	336	12.5	6	.2	1467	54.5	2691	8.2
6	140	4.4	381	11.9	483	15.0	456	14.2	4	.1	1464	45.5	3215	10.1
5	95	2.7	286	8.2	453	13.0	494	14.2	4	.1	1332	38.4	3472	10.9
4	41	1.1	175	4.7	366	9.8	411	11.0	2	.1	995	26.7	3723	11.7
3	18	.7	93	3.4	150	5.4	274	9.9	5	.2	540	19.5	2766	8.7
2	11	.3	78	2.2	156	5.4	295	8.2	8	.2	548	15.2	3613	11.3
1	7	.2	38	1.0	13	.4	170	4.6	9	.2	237	6.4	3696	11.6
Total	1859	5.8	3916	12.3	3106	9.8	3238	10.2	61	.2	12180	38.2	31849	100.0
Females														
10	724	20.1	947	26.9	419	11.9	178	5.1	15	.4	2283	64.9	3520	11.4
9	413	11.4	689	19.0	595	16.4	314	8.6	15	.4	2027	55.8	3631	11.7
8	218	7.2	451	14.9	487	16.1	262	8.7	20	.7	1438	47.5	3028	8.8
7	123	4.4	353	12.6	452	16.2	244	8.7	31	1.1	1203	43.0	2795	9.0
6	96	3.0	268	8.4	477	15.0	273	8.6	21	.7	1135	35.7	3182	10.0
5	53	1.6	155	4.7	358	10.8	294	8.9	15	.5	875	26.4	3319	10.7
4	32	1.0	103	3.1	299	8.9	237	7.1	19	.6	690	20.6	3342	10.8
3	10	.4	49	2.0	103	4.2	162	6.6	15	.6	339	13.8	2456	7.9
2	5	.2	46	1.6	89	3.1	115	4.0	18	.6	273	9.4	2894	9.4
1	2	.1	33	1.2	38	1.4	75	2.7	14	.5	162	5.9	2767	8.9
Total	1676	7.4	3094	10.0	3317	10.7	2154	7.0	184	.6	10425	33.7	30934	100.0
Males and Females														
10	1310	20.6	1840	29.0	714	11.2	358	5.6	26	.4	4248	66.9	6354	10.1
9	898	13.3	1546	22.9	921	13.7	637	9.5	25	.4	4027	59.8	6739	10.7
8	481	8.4	1087	18.9	917	15.9	561	9.7	24	.4	3070	53.3	5759	9.2
7	336	6.1	832	15.2	886	16.2	580	10.6	36	.7	2670	48.7	5486	8.7
6	236	3.7	649	10.1	960	15.0	729	11.4	25	.4	2599	40.6	6397	10.2
5	148	2.2	441	6.5	811	11.9	788	11.6	19	.3	2207	32.5	6791	10.8
4	73	1.0	278	3.9	665	9.4	648	9.2	21	.3	1685	23.8	7065	11.3
3	28	.5	142	2.7	253	4.8	436	8.3	20	.4	879	16.8	5222	8.3
2	16	.2	124	1.9	245	3.8	410	6.3	25	.4	821	12.6	6507	10.4
1	9	.1	71	1.1	51	.8	245	3.8	23	.4	399	6.2	6463	10.2
Total	3535	5.6	7010	11.2	6423	10.2	5392	8.6	245	.4	22605	36.0	62783	100.0

- The last column is the percent of the total across deciles. The other percentages are based on the total within each decile.



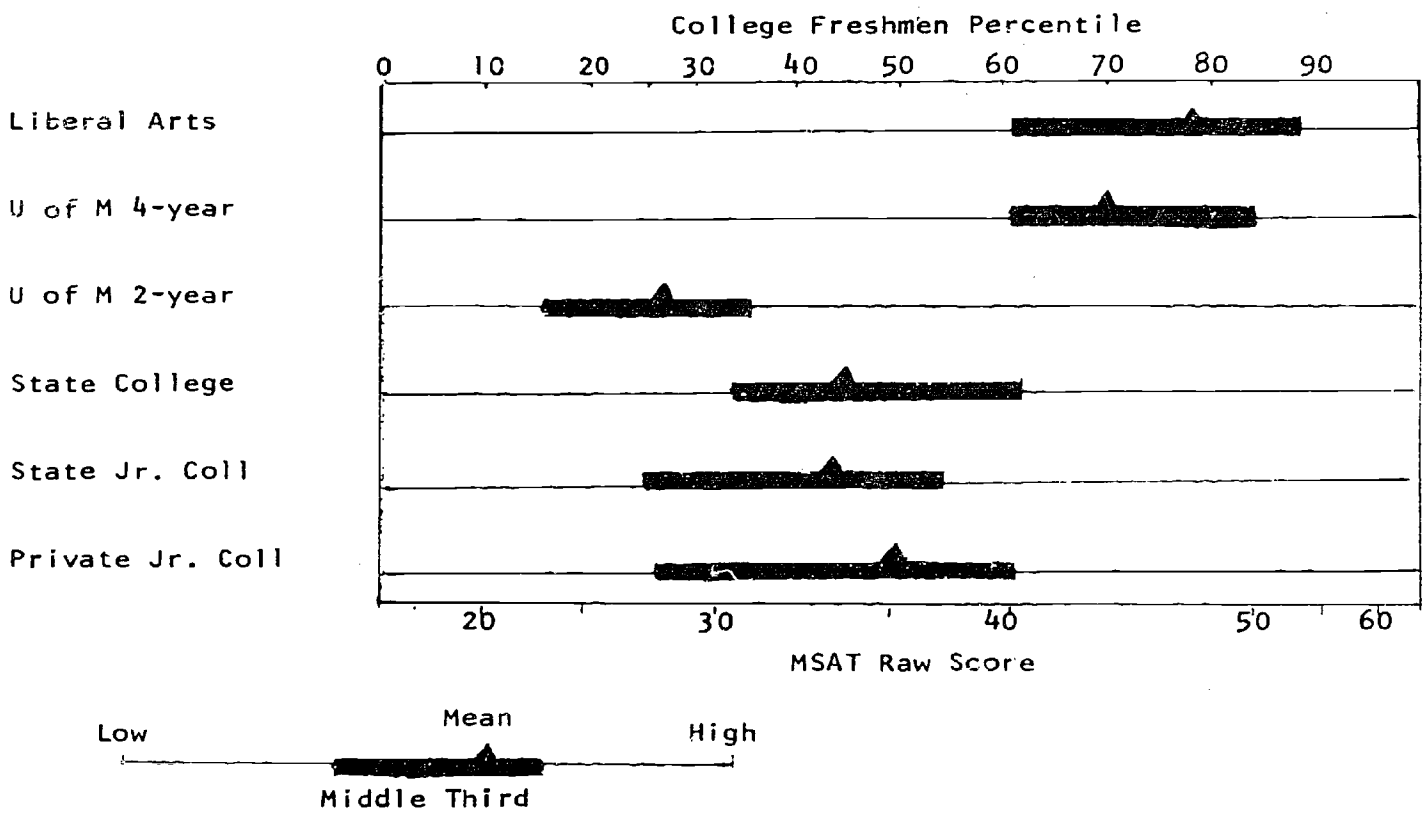


Fig. 1.1. MSAT score distributions by type of college.

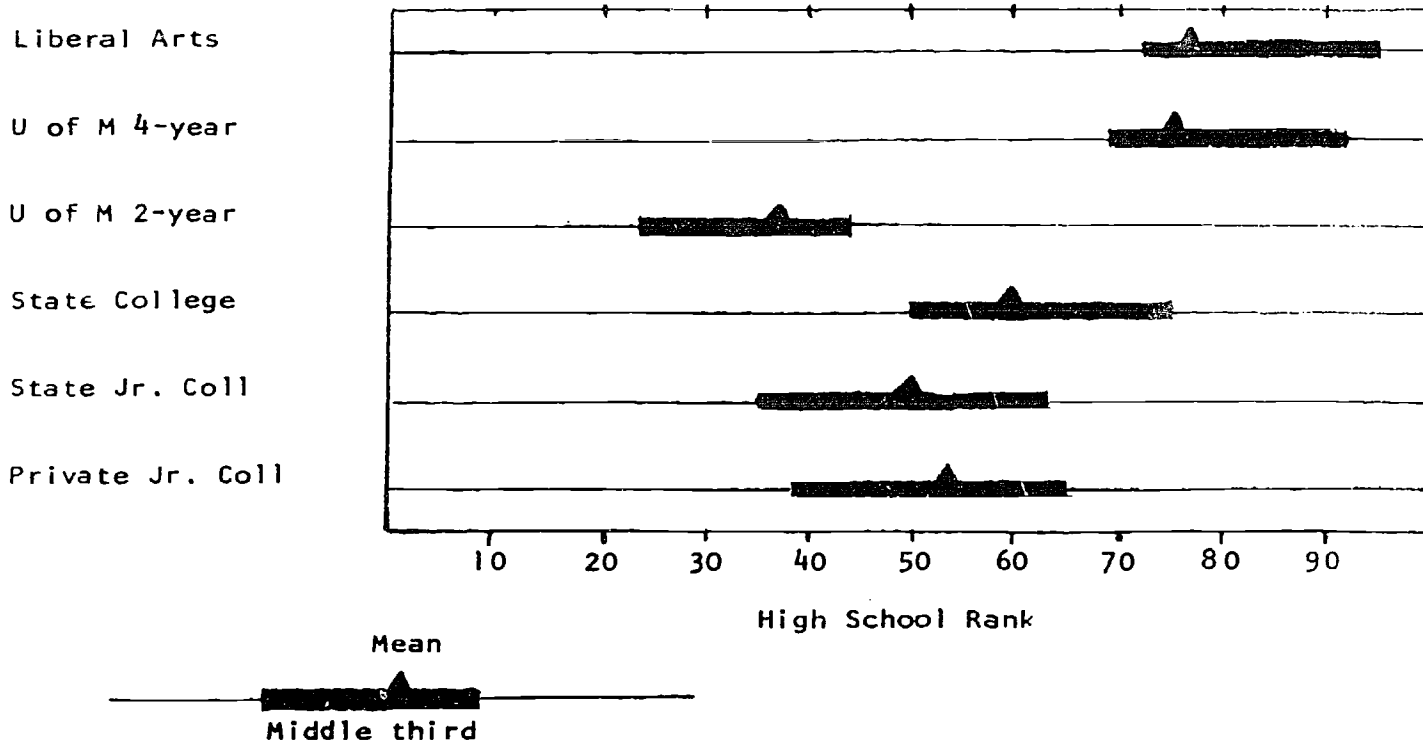


Fig. 1.2. High school rank distributions by type of college.