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ABSTRACT

In June 1988, 742 students graduated from Saginaw and Arthur Hill High Schools. To determine what they have been doing since graduation the Department of Evaluation Services in conjunction with the Office of Adult and Continuing Education developed a 10-item telephone survey. In addition to collecting graduate follow-up information the survey was designed to act as a recruitment vehicle for Project Great which serves 19- and 20-year-olds with career guidance and vocational training experiences free of charge to participants. The survey directed respondents to identify their educational and/or employment status, specify the perceived problems they encountered either in the work force or post-high school education, and describe their present occupation or the one they are pursuing through their present education. The results of the study indicated that: (1) over one-half of the graduates were enrolled in some kind of educational program; (2) 10 months after graduation slightly over 10 percent of the students were unemployed; (3) most employed graduates were employed in relatively unskilled jobs; (4) almost one-half of the graduates were employed in personal services industries; (5) approximately 80 percent of the graduates in school were enrolled in 2- or 4-year colleges; and (6) the most common serious educational problems were the lack of basic educational skills, money problems, and lack of study habits. (ABL)

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EVALUATION REPORT

FOLLOW-UP STUDY OF 1988 GRADUATES

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DEPARTMENT OF EVALUATION SERVICES

- PROVIDING ASSESSMENT, PROGRAM EVALUATION AND RESEARCH SERVICES -

Saginaw Public Schools
Saginaw, Michigan



FOLLOW-UP STUDY OF 1988 GRADUATES

An Approved Report of the

DIVISION OF ADMINISTRATION AND PERSONNEL

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June, 1989

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INTRODUCTION

In June, 1988, 742 students graduated from Saginaw and Arthur Hill High Schools. To determine what they have been doing since graduation the Department of Evaluation Services in conjunction with the Office of Adult and Continuing Education developed a ten item phone survey (see Appendix A for a The Project Great staff from the Office of Adult and Continuing Educacopy). tion, along with two evaluators, were trained in the use of the survey on April 11, 1989. In addition to collecting graduate follow-up information the survey was designed to act as a recruitment vehicle for Project Great which serves 19-20 year olds with career guidance and vocational training experiences free of charge to participants. The phoning started on April 24, 1989 and concluded on May 31, 1989. The survey directed respondents to identify their educational and/or employment status, specify the perceived problems they encountered either in the work force or post high school education, and describe their present occupation or the one they are pursuing through their present education. Those findings are contained in the balance of this report and represent the phone surveys completed by May 31, 1989.

The results of this study provide administrators, teachers, and counselors with data to further assist them in instructional and curricular planning to meet the needs of Saginaw's students.



DEMOGRAPHIC DATA

The 1988 follow-up phone survey attempted to contact 742 graduates (434 at Arthur Hill and 308 at Saginaw High). Four hundred ninety-three phone surveys (66.4%) were completed. Of those 493, 294 (59.6%) were from Arthur Hill graduates and 199 (40.4%) from Saginaw High graduates. The response rate shows that 67.7% (294 of 434) of Arthur Hill's and 64.6% (199 of 308) of Saginaw High's 1988 graduates responded to the survey.

Table 1 below contains a breakdown by ethnic background and sex of those returning the follow-up questionnaire and the district's 1988 graduating class.

TABLE 1. COMPARISON OF THE 1988 GRADUATE POPULATION WITH THE 1988 GRADUATES RETURNING A FOLLOW-UP QUESTIONNAIRE, BY ETHNIC BACKGROUND AND GENDER.

Ethnic Background		988 Graduates Re ollow-Up Questio	Population of 1 Graduating Class			
and Gender	Number	Percent of Respondents	fercent of Graduates	Number	Percent	
TOTAL	4 93	100.0	66.4	742	100.0	
ETHNIC BACKGF: OUND						
White Black Spanish-American American Indian Oriental GENDER	193, 254 39 7 0	39.2 51.5 7.9 1.4 0.0	69. 9 63. 8 66. 1 87. 5 0. 0	276 398 59 8 1	37. 2 53. 6 8. 0 1. 1 0. 1	
Female Male	283 210	57.4 42.6	66. 7 66. 0	424 318	57.1 42.9	



A review of the data shows that:

- Of the 493 respondents, 193 (39.2%) were White, 254 (51.5%) Black, 39 (7.9%) Spanish-American, 7 (1.4%) American Indian, and 0 (0.0%) Oriental. The percent of respondents by group approximates the percent each group represented in the graduating class.
- Ethnically speaking, over 50% of each group's graduates were contacted except for the Oriental group where the single person could not be reached. A total of 87.5%, 69.9%, 66.1%, 63.8% were contacted for the American Indian, White, Spanish-American, and Black ethnic groups, respectively. (Caution should be exercised when attaching significance to groups with comparatively small numbers.) (See Appendix B.)
- Of those responding, 283 (57.4%) were female and 210 (42.6%) were male. The graduating class was made of 424 (57.1%) females and 318 (42.9%) males. As can be seen the percent of males and females in each group was approximately proportional to the response rates.

The intent of the study was to describe the total 1988 Saginaw graduating class. The data presented should be viewed as representative of the survey respondents, and not necessarily reflective of the total graduating class since 66.4% of the graduates completed the follow-up instrument. A second purpose of the study was to provide data upon which to make comparisons with the results of the Follow-Up Study of 1986 Graduates. Appendix B provides a comparison between the graduating classes and respondents in 1986 and 1988 by high school, gender, and ethnic background. Of the 1986 graduates 64.6% (455 of 706) returned the questionnaire compared with 66.4% (493 of 742) of the 1988 graduates. (See Appendix B for further comparisons of the two graduating classes.)

The reader should also bear in mind that the 1986 study was conducted approximately six months after graduation. Thus, the 1986 and 1988 graduates are being compared at approximately the same points in their post-high school



careers (6 months versus 10 months respectively) and thus some similarity may well be expected.

The discussion section that follows will be divided into three major sections. The first section will deal the primary activity which most accurately describes their current employment/educational status. The other two sections, will deal with a fuller description of their employment and posthigh school education related to the current primary activities reported.



PRIMARY ACTIVITY

The graduates were asked to indicate the primary activity which most accurately described their current employment/educational status.

Table 2 on the following page contains responses to this question by system, sex, ethnic background, and building.



TABLE 2. MAJOR ACTIVITY OF 1988 FOLIOW-UP RESPONDENTS BY SYSTEM, GENER, ETHNIC BACKGROUND, AND SCHOOL.

				, Y S	STEM				A	RIHUR HILI		S	AGINAW HIG	H
TYEE OF ACTIVITY	Total %	Gen Remale %	der Male, %	Am In %	Eth White %	nic Backg Sp-Am %	g <u>round</u> Black %	Oriental %	Total %	Ger Remale %	nder Male %	Total %	Ge Remale	nder Male
Full-Time Education	47.0	51.1	41.5	57.1	50,0	45,Ò	45,3	0.0	49.8	53.3	45.4	42,0	47.0	34.2
Part-Time Employment	11.9	11.4	12,6	14,3	13, 3	7.5	11.4	0, 0	11.5	11.6	11.4	12,5	11.1	14, 5
Full-Time Employment	11.3	8.6	15.0	0.0	15,8	10.0	8,1	0.0	13.2	11.6	15.1	8,3	4.3	145
Unemployed Seeking Work	10,6	5,7	4.8	0.0	1.0	0,0	9,7	0.0	1.4	1.2	1, 5	11.4	11.8	10,5
Military	7.4	2,8	13, 5	14, 3	6, 1	5.0	8,5	0, 0	6.7	2,4	12, 1	8.3	3.4	15.8
Part-Time Education	5,3	11.8	8,7	0.0	9.7	20.0	9. 7	0,0	12.1	13.9	9.9	9.3	10,3	7.9
Unemployed No: Seek- ing Work	5, 1	6,8	2, 9	14,3	3,1	7. 5	6.1	0.0	4.4	4,8	3.8	6, 2	9,4	1.3
Layed-Off	0,6	0, 4	1.0	0.0	0,0	2,5	0,8	0.0	0,3	Q.O	0, 8	1.0	0,9	1.3
Homema ker	0,4	0,7	o.o	0.0	0.0	2,5	0.4	0.0	0.3	0.6	0.0	0.5	0,9	0.0
Other	0.4	0,7	0.0	0.0	1.0	0,0	0,0	0,0	0,3	0,6	0, 0	0,5	0,9	0, 0
TOTAL N	100.0 487	100, 0 280	100.0 207	100.0 7	100,0 196	100.0 40	100.0 244	100,0	100.0 294	100,0 163	100,0 131	100,0 193	100.0 117	100 . 0 76

A review of the data in Table 2 reveals:

- System-wide, the greatest percent of graduates (47.0%)
 was enrolled in a full-time training program, school or
 college.
 - A greater percentage of females (51.1%) than males (41.5%) were in school full-time.
 - A greater percentage of White students (57.1%) were enrolled in school than either Spanish-American or Black graduates.
 - The percent of Black and Spanish-American graduates in school full-time was nearly the same (45.3% and 45.0%, respectively).
 - A greater percentage of AHHS graduates (49.8%) than SHS graduates (42.0%) were in school full-time.
- The second most frequently cited activity was part-time employment (11.9%),
 - A greater percentage of males (12.6%) than females (11.4%) fell into this category.
 - The greatest percerc of graduates part-time employed were American Indian (14.3%) followed by White (13.3%), Black (11.4%), and Spanish-American (7.5%).
 - The percent of graduates at SHS (12.5%) part-time employed was approximately the same at AHHS (11.5%).
- The third most frequently cited activity was full-time¹ employment (11.3%).
 - A greater percent of males (15.0%) than females (8.6%) was working full-time.
 - A greater percentage of White graduates found fulltime employment (15.8%) than Spanish-Americans (10.0%), Blacks, (8.1%), or American Indians (0.0%).
 - A greater percentage of Arthur Hill graduates was employed full-time (13.2%) than Saginaw High graduates (8.3%).



¹Thirty or more hours per week.

- The fourth most frequently cited response was "unemployed seeking work" (10.6%).
 - The percentage of females (5.7%) "seeking work" was only slightly greater than males (4.8%).
 - Blacks (9.7%) topped the list followed by Whites (1.0%), American Indians and Spanish-Americans had no one in this category.
 - The percentage of SHS graduates (11.4%) seeking work was eight times greater than AHHS (1.4%).
- The fifth most frequently cited activity was the military service (7.4%).
 - The percentage of males (13.5%) in the service was almost five times greater than females (2.8%).
 - American Indians (14.3%) topped the list followed by Blacks (8.5%), Whites (6.1%), and Spanish-Americans (5.0%).
 - The percentage of SHS graduates (8.3%) in the military was greater than AHHS graduates (6.7%).

Each of the remaining major activities was mentioned by fewer than 6.0% of the respondents—part-time education (5.3%), unemployed not seeking work (5.1%), laid-off (0.6%), homemaker (0.4%), and other (0.4%).

Some differences can be observed between the 1988 and 1986 graduates.

The chart below contains the percent of respondents for both years by primary activity.





Primary Activity		1988 Z	1986 Z
Full-Time Education Part-Time Employment Full-Time Employment Unemployed Seeking Work Military Part-Time Education Unemployed Not Seeking Work Laid-Off Homemaker		47.0 11.9 11.3 10.6 7.4 5.3 .5.1 0.6	41. 6 14. 6 15. 7 10. 8 5. 3 8. 0 2. 4 0. 9 0. 7
Other		0.4	0. 0
TOTAL	% N	100.0 487	100.0 452

Full-time education remained the primary activity for both 1988 and 1986 graduates (47.0% and 41.6% respectively). Part- or full-time employment of 1988 graduates (11.9% and 11.3% respectively) was less than for the 1986 graduates (14.6% and 15.7% respectively). A smaller percentage of the 1988 graduates (5.3%) entered part-time education as their primary activity than the 1986 graduates (8.0%). More 1988 graduates were in the military and unemployed not seeking work (7.4% and 5.1% respectively) than the 1986 graduates (5.3% and 2.4% respectively). Overall, the 1988 graduates appear to be involved in educational pursuits slightly more and less into employment than the 1986 graduates. This tends to be the general trend during economic prosperity when employment is less essential because parents or part-time pursuits can more easily fuel the costs related to further education.

EMPLOYMENT

The 224 graduates who indicated "working" as their primary activity since graduation were asked to specify their jobs by occupational category. A complete description of these occupational categories can be found in Appendix C.

A complete tabulation of the occupational categories of the 1988 graduates by system, gender, ethnic background and building is contained in Table 3 below.



16

TABLE 3. COCUMATIONAL CATECORIES OF IMPLOYED 1988 GRADUATES BY SYSTEM, SEX, KIHNIC BACKGROUND, AND SCHOOL.

		<u> </u>		SYS	TEM				A	RITHUR HILL		SA	GINAW HIG	i
OCCUPATIONAL CATEGORY		Gen	ler		Eth	nic Backg	round			Gen	der		Ger	rder
	Total %	Remale %	Male %	Am In %	White %	Sp-Am %	Black %	Oriental %	Total %	Female %	Male %	Total %	Remale %	
Serving personal needs of people	29,9	32.1	27.4	50.0	23,5	25,0	36,8	0.0	24.5	27.2	21.2	40,2	43.3	37.
Waiting on Customers	18, 3	22.0	14.2	0.0	20,6	20,0	16.3	0.0	21.8	25.9	16.7	11.7	13.5	10
Yanual Work	13.0	3,4	23,6	0.0	10.8	20.0	14.3	0.0	11.6	3.7	21.2	15.6	2.7	27
Ilerical Work	8,9	14.4	2.8	0.0	9,8	15.0	7. 2	0,0	8.8	14.8	1.5	9,1	13.5	5
Providing Skilled	7.2	5,9	8.5	0.0	6.9	0.0	9.2	0.0	6.8	4.9	9.1	7.8	8.1	7
Services for People	}			l		_	- •			"		'''	٠.	•
Celling & Merchandis-	6.3	7.6	4.8	25.0	9.8	5.0	2.0	0.0	8.2	8.7	7. 6	2.6	5.4	0
ing Work					-	•			1	-	,,		-	·
aring for Reople or Animals	4.5	7.6	0.9	0,0	4.9	5, 0	4. 1	0.0	5.4	9.9	0.0	2,6	2.7	2
Communications Work	2.7	2,5	2,8	0.0	3, 9	5, 0	1.0	0.0	4.1	3,7	4.6	0.0	0.0	C
fanagerial Work	2.3	0.9	3,8	0.0	2,9	0.0	2.0	0.0	2.0	0.0	4.6	2.6	2.7	2
killed Operation, Repair, or Installa- tion of Precision Equipment	2,2	0,9	3.8	25, 0	2.9	0, 0	1.0	0.0	2,7	0,0	6.0	1, 3	2,7	Ō
inspecting & Measuring	1.8	0, 9	2.8	0.0	1.0	0.0	3, 1	0.0	0.7	0.0	1.5	3, 9	2.7	5
kmber Work	1.3	0.9	1.9	0.0	2.0	0.0	1.0	0.0	2.0	1.2	3.0	0.0	0.0	Č
usical & Entertain-	0.4	0.0	0.9	0.0	1.0	0.0	0.0	0.0	0.7	0.0	1.5	0.0	0.0	(
ment Activities									. .		1.5	4. 0	40	,
achine Work	0.4	0.0	0,9	0.0	0.0	0.0	1.0	.0.0	0.0	0.0	0.0	1.3	0.0	2
raftsmanship	0.4	0.0	0.9	0.0	0.0	5.0	0.0	0.0	0.7	0.0	1.5	0.0	0.0	(
romotional Activities	0.4	0.9	0,0	0,0	0.0	0.0	1.0	0,0	0.0	0.0	0.0	1.3	2,7	ò
* .	100.0	100,0	100,0	100.0	100.0	100,0	100,0		100,0	100.0	100.0	100.0	100.0	100
total n	224	118	106	4	102	20	. 98	0	147	8L	66	77	37	4(



Highlights from Table 3 include:

- Two of these occupational categories, serving the personal needs of people and waiting on customers represented almost half (29.9% and 18.3% respectively) of the respondents.
- System-wide, there are marked differences (at least twice as many) between the percentage of males and females working in twelve of the sixteen occupational categories represented. Occupations showing smaller differences included:
 - More females (32.1%) than males (27.4%) were employed in jobs serving the personal needs of people.
 - More females (22.0%) than males (14.2%) had jobs waiting on customers.
 - More males (8.5%) than females (5.9%) were providing skilled services for people.
 - More females (7.6%) than males (4.8%) were employed in jobs involving selling and merchandising.
 - More males (2.8%) than females (2.5%) were in communication work.
- Only Whites (102) and Blacks (98) are represented by large enough numbers to make meaningful statements by ethnic group.
 - The top five occupational categories for White graduates were:
 - --Serving personal needs of people (23.5%)
 - --Waiting on customers (20.6%)
 - -- Manual work (10.8%)
 - --Clerical work (9.8%)
 - --Selling and merchandising work (9.8%)
 - The top five occupational categories for Black graduates were:
 - -- Serving personal needs of people (36.8%)
 - --Waiting on customers (16.3%)
 - -- Manual work (14.3%)
 - --Providing skilled services for people (9.2%)
 - --Clerical work (7.2%)
- By school, differences between males and females are in the same direction except for those at SHS in the areas of providing skilled services for people; managerial work; and skilled operation and repair of precision equipment.



- More Arthur Hill graduates (147) have been employed since June than Saginaw High graduates (77). When expressed as a percentage of their graduating classes, the figures (33.8% and 25.0% respectively) show the same trend but greatly reduced in strength.
 - No Saginaw High graduates were employed in communication work, number work, musical and entertainment activities, and craftsmanship.
 - No Arthur Hill graduates were employed in machine work and promotional activities.

Differences in occupations between the 1988 and 1986 graduates seem noteworthy to review. The chart below contains the percent of respondents for both years by occupational category.

Occupational Category	1988	198 6
	Z	7
Serving Personal Needs of People	29.9	11.5
Waiting on Customers	18.3	2 9. 8
Manual Work	13.0	18.8
Clerical Work	8. 9	16.6
Providing Skilled Services for People	7.2	5. 1
Selling and Merchandising Work	6. 3	0.8
Caring for People or Animals	4.5	4.7
Communications Work	2. 7	C.4
Managerial Work	2.3	1.3
Skilled Operation, Repair, or Instal- lation	2.2	1. 7
In specting and Measuring	1.8	0.4
Number Work	1.3	0.8
Craftsmanship	0. 4	2.6
Musical and Entertainment Activities	0.4	1.3
Machine Work	0. 4	1.3
Promotional Activities	0.4	0.0
Artistic Work	0.0	2.1
Not Specified	0.0	0.8
TOTAL %	100.0	100.0
N	224	232

The number of occupational categories represented by the 1986 (16 of 17) and 1988 (15 of 17) graduates has decreased by one. The largest percentage of graduates employed in a category decreased 11.5% from 1986 to 1988 in waiting



on customers. Other large decreases occurred in clerical (-7.7%) and manual (-5.8%) work. Substantial increases from 1986 to 1988 were observed in the following categories: serving personal needs of people (+18.4%) and selling and merchandising work (+5.5%).

Respondents were asked to name where they worked. These organizations were then classified by industrial group (see Appendix D). Table 4 on the following page contains information by system, sex, ethnic background, and building for graduates employed in these industrial classifications.



TABLE 4. TYPE OF INDUSTRY EMPLOYING 1988 CRADUATES AFTER HIGH SCHOOL CRADUATION BY SYSTEM, SEX, ETHNIC BACKGROUND, AND SCHOOL.

			_	SYS	TEM	<u>_</u>			A	RIHUR HILL	•	s	AGINAW HIG	Н
INDUSTRY OF EMPLOYERS	Total	<u>Gen</u> Remale %	der Male %	Am In %	Eth White %	nic Back Sp-Am %	round Black %	Or Lental %	Total %	Gen Remale %	der Male %	Total %	1	nder Male
Personal Services	42.0	44.7	39.1	25.0	39.3	28.6	48.1	0.0	39.6	43,4	35.2	46.4	47.5	45.5
Professional & Related Services	26,9	21.1	33, 0	25.0	22.4	23, 8	32, 1	0.0	24.7	19.3	31.0	30.9	25.0	36, 4
Wholesale & Retail Trade	19.8	26,8	12.2	50.0	21.5	38.1	13, 2	0,0	20.8	28.9	11.3	17.9	22.5	13.6
Manufacturing	3.4	0,8	6,1	0.0	2.8	9. 5	2.8	0.0	3, 2	0,0	7.0	3.6	2,5	4. 5
Construction	2,5	0.0	5.2	0.0	5.6	0.0	0.0	0.0	3,9	0.0	8.5	0.0	0.0	0.0
Entertainment & Recreational Ser- vices	2.5	2.5	2,6	0.0	3.7	0.0	1.9	0.0	3,9	3.6	4.2	0.0	0.0	0.0
Finance, Insurance & Real Estate	2.1	3,3	0.9	0.0	2.8	0.0	1.9	0.0	2.6	3.6	1.4	1.2	2,5	0 . 0
Transportation, Com- munication & Other Public Utilities	0.8	0.8	0.9	0.0	1.9	0.0	0.0	0.0	1.3	1.2	1.4	0.0	0,0	0,0
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL N	100.0 238	100.0 123	100.0 115	100. 0 4	100.0 107	100.0 21	100.0 106	0	100.0 154	100.0 83	100.0 71	100.0 84	100.0 40	100.0



A review of the data in Table 4 indicates that:

- Of the 238 employed graduates 88. % either worked in personal services, professional and related services, or wholesale/retail trade (42.0%, 26.9%, and 19.8% respectively).
- By system, there are marked differences (at least twice as many) between the percentage of males and females in four of the eight industrial groups categories represented. Industrial groups showing these differences included:
 - More females (26.8%) than males (12.2%) work in the wholesale/retail trade.
 - More males (6.1%) than females (0.8%) work for manufacturing employers.
 - More females (3.3%) than males (0.9%) being hired by finance, insurance, and real estate agencies.
 - Construction employers show only males (5.2%).
- Personal services, professional and related services, and wholesale/retail trade industrial categories were the three most frequently mentioned by the four ethnic groups responding.
- Only White (107) and Black (106) are represented by large enough numbers to make any meaningful statements by ethnic background.
 - The top four employers for White graduates were:
 - --Personal services (39.3%)
 - -Professional and related services (22.4%)
 - --Wholesale/retail trade (21.5%)
 - --Construction (5.6%)
 - The top four employers for Black graduates were:
 - --Personal services (48.1%)
 - -Professional and related services (32.1%)
 - --Wholesale/retail trade (13.2%)
 - -Manufacturing (2.8%)
- More Arthur Hill graduates (154) were employed in the industries mentioned than Saginaw High graduates (84).



 No Saginaw High graduates were employed in the industries of construction; entertainment and recreational services; and transportation, communication and other public utilities.

Some minor differences are apparent when comparing employer industries of 1988 and 1986 graduates. The order of the top three employers (first, personal services, next professional and related services, and wholesale/retail trade) remains the same between the two graduating classes. The chart below presents the employed 1988 and 1986 graduates by industrial employer.

Industry of Employers	<u> 1988</u>	1986
•	Z	Z
Personal Services	42.0	31.7
Professional and Related Services	26.9	24.6
Wholesale and Retail Trade	19.8	21.7
Manufacturing	3.4	5.8
Construction	2.5	4.6
Entertainment and Recreational Services	2.5	5.8
Finance, Insurance and Real Estate	2.1	1.2
Transportation, Communication and Other Public Utilities	0.8	2.5
Other	. 0.0	2.1
TOTAL %	100.0	100.0
N	238	237

The 1988 graduates found employment in eight of the nine industries (exception being other). Saginaw's 1986 graduates were employed in all nine industries. The four largest decreases from 1986 to 1988 occurred in entertainment and recreational services (-3.3%), manufacturing (-2.4%), construction (-2.1%), and other (-2.1%). The two most substantial increases appeared in personal services (10.3%) and professional and related services (2.3%).

The employed 1988 graduates were also asked, "What was the single most serious occupational problem that they had met since graduation?" Those occupational problems faced by graduates are contained in Table 5 on the following page by system, sex, ethnic background and building.



TABLE 5. MOST SERIOUS COCUPATIONAL PROBLEM OF 1988 GRADUATES BY SYSTEM, CENTER, FITHNIC BACKGROUND, AND SCHOOL.

				SYS	TEM				A	CIHUR HILL		SA	CINAM HIG	i
OCCUPATIONAL PROBLEM	Total %	Gen Remale %	der Male %	Am In	Eth White %	nic Backy Sp-Am %	round Black %	Oriental %	Total %	Gen Remale %	Male %	Total %	Ger Female %	nder Male %
No Occupational Problem		81.0	82,1	100.0	86.6	84.0	75.8	0.0	85.9	83,0	89,5	73.8	77•0	69.8
Unable to Find the Right Job	8.7	9, 2	8, 2	0.0	3, 5	4,0	14,5	0.0	4, 7	5,3	4, 0	16,0	16,7	14.8
No Work Available	2.6	2,8	2,5	0.0	0.9	8.0	3,3	0.0	2.9	3, 2	2,6	2, 2	2.1	2,2
A Combination of Prob- lems	1.5	1.4	1.6	0,0	2,7	4.0	0.0	0.0	2.3	2,1	2,6	0.0	0.0	0.0
Lacked Job Experience	1,1	2, 1	0.0	0.0	0.9	0.0	1.6	0.0	1.2	2,1	0.0	1.0	2, 1	0.0
Urable to Establish Goals	0.7	1.4	0.0	a.o	1.8	0.0	0.0	0.0	1.2	2,1	0.0	0.0	0.0	0.0
Prejudice and/or Dis- crimination	0.7	0.7	0.8	0.0	0.9	0.0	0.8	0.0	0.6	1.1	0.0	1.0	0.0	2,2
Lack of Runds for Col- lege	0.7	0.0	1.6	0.0	1.8	0.0	0.0	0.0	0.6	0.0	1.3	1.0	0.0	2,2
Other	0.7	0.7	0.8	0.0	0.0	0.0	1.6	0.0	0.6	1.1	0.0	1.0	0.0	2, 2
Lacked Skills and Tech- nical Knowledge	0.3	0.0	0.8	0.0	0,9	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	2, 2
Unable to Rollow Plans to Accomplish goals	0,3	0,7	0, 0	0.0	0.0	0.0	0,8	0.0	0.0	0.0	0.0	1.0	2.1	0.0
Attending College Rull- Time	0.3	0,0	0,8	0,0	0,0	0.0	0.8	0.0	0,0	0.0	0.0	1.0	0,0	2.2
Rersonal Problems	0.3	0.0	0.8	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	1.0	0.0	2.2
Disappointed with Occu- pational Choice	0.0	0,0	0.0	0.0	0,0	0,0	0,0	0.0	0.0	0,0	0.0	0.0	0.0	0.0
70TAL N	100 . 0 265	100 . 0 142	100.0 123	100.0	100.0 112	100.0 25	100 . 0 124	-	100 . 0 170	100 , 0 94	100 . 0 76	100.0 95	100.0 48	100,0 47

A review of the data contained in Table 5 reveals that:

- Of the 265 respondents (82.1%) found no major occupational problems.
- System-wide totals show that the top three occupational problems were:
 - Unable to find the right job 8.7% (4.7%: AHHS and 16.0%: SHS).
 - No work available 2.6% (2.9%: AHHS and 2.2%: SHS).
 - A combination of problems 1.5% (2.3%: AHHS and 0.0%: SHS).
- The most frequent response of both males (82.1%) and females (81.0%) was "no serious occupational problem".
 - A greater percentage of females (9.2%) than males (8.2%) system-wide found an inability to find the right job.
 - A greater percentage of females (2.8%) than males (2.5%) system-wide found "no work available" as the greatest occupational problem.
- Only Whites (112) and Blacks (124) are represented by large enough numbers to make any meaningful statement by ethnic background.
 - The top four occupational problems for White graduates were:
 - --Unable to find the right job (3.5%)
 - --A combination of problems (2.7%)
 - --Unable to establish goals (1.8%)
 - --Lack of funds for college (1.8%)
 - The top four occupational problems for Black graduates were:
 - --Unable to find the right job (14.5%)
 - --No work available (3.3%)
 - -Lacked job experience (1.6%)
 - --Other (1.6%)

- The top three occupational problems for Arthur Hill female and male graduates were:
 - Females

```
--Unable to find the right job (5.3%)
```

- --No work available (3.2%)
- -A combination of problems (2.1%)
- --Lacked job experience (2.1%)
- --Unable to establish goals (2.1%)
- Males

```
--Unable to find the right job (4.0%)
```

- --No work available (2.6%)
- -A combination of problems (2.6%)
- Top three occupational problems for Saginaw High female and male graduates were:
 - Females

```
--Unable to find the right job (16.7%)
```

- -- No work available (2.1%)
- -Lacked job experience (2.1%)
- --Unable to follow plans to accomplish goals (2.1%)

- Males

```
--Unable to find the right job (14.8%)
```

--No work available (2.2%)

-Prejudice and/or discrimination (2.2%)

-- Lack of funds for college (2.2%)

-Lacked skills and technical knowledge (2.2%)

--Attending college full-time (2.2%)

-Personal problems (2.2%)

--0ther (2.2%)

The chart below presents the occupational problems of the employed 1988 and 1986 graduates.



Occupational Problem	1988 Z	1986 Z
No Occupational Problem	82.1	45.9
Unable to Find the Right Job	8. 7	17.3
No Work Available	2.6	6.2
A Combination of Problems	1. 5	0.7
Lacked Job Experience	1.1	5.9
Prejudice and/or Discrimination	0.7	1.4
Unable to Establish Goals	0.7	1.4
Lack of Funds for College	0.7	0.3
Other	0.7	2.8
Lacked Skills and Technical Knowledge	0.3	6. 2
Personal Problems	0.3	4.5
Unable to Follow Plans to Accomplish Goals	0.3	3.4
Attending College Full-Time	0.3	0.3
Disappointed with Occupational Choice	0.0	3.1
Threat of Lay-Off	0.0	0.3
Being Over Qualified	. 0.0	0.3
TOTAL %	100.0	100.0
N	265	282

Overall it appears the employed 1988 graduates have experienced fewer serious occupational problems than 1986 (no occupational problems 82.1% and 45.9% respectively). A substantial decreases of 8.6% in the number reporting the inability to find the right job between 1986 and 1988 graduates.

POST-HIGH SCHOOL EDUCATION

Table 6 below contains data relevant to post high school educational information for 318 graduates. (See Appendix E for a complete list of school categories.)



TABLE 6. TYPE OF SCHOOL ATTENIED BY 1988 GRADIATES AFTER HIGH SCHOOL GRADIATION BY SYSTEM, GENDER, ETHNIC BACKGROUND, AND SCHOOL.

				SYS	TEM				A	CTHUR HILL	,	S/	AGINAW HIG	
TYPE OF SCHOOL	Total %	<u>Gen</u> Remale %	der Male %	Ann In %	Eth White %	nic Backe Sp-Am %	ground Black %	Oriental %	Total %	Gen Female %	mder Male %	Total %	Ge Female %	nder Male
Junior or Community College	43.7	48.4	37.3	40.0	42,2	64.3	41.4	0,0	45,5	52,2	37.1	40.5	42,3	37.7
College or University	34.6	35, 9	32, 8	40.0	39.8	17.9	33.1	0,0	34.7	34.5	34.8	34.5	38.0	28, 9
Dance School	10.7	3.2	20.9	20.0	10.2	7.1	11.5	0.0	9.4	2,7	18.0	12,9	4.2	26.7
Apprenticeship, Vocational-Technical School	8,5	8,7	8. 2	0.0	7. 0	7. 1	10, 2	0.0	8,9	8,8	9.0	7.7	8,5	6,7
Business School	1.0	1.1	0.8	0.0	0.8	3.6	0.6	0,0	1.0	0.9	1.1	0.9	1.4	0,0
Adult Education	0.6	1.1	0.0	0.0	0,0	0.0	1.3	0,0	0.5	0.9	0.0	0.9	1.4	0,0
Skilled Personal Ser- vice School	0,6	1.1	0,0	0.0	0.0	0.0	1.3	0.0	0.0	0,0	0.0	1.7	2.8	0,0
Management Training Program	0.3	0,5	0,0	0,0	0,0	0.0	0.6	0.0	0.0	0.0	0.0	0.9	1.4	0,0
70TAL N	100.0 318	100.0 184	100 . 0 134	100 . 0 5	100.0 128	100.0	100.0 157	<u> </u>	100.0 202	100 . 0 113	100.0 89	100.0 116	100.0 71	100 . 0 45

A review of the data contained in Table 6 reveals that:

- Of the 318 graduates:
 - 202 (63.5%) were Arthur Hill graduates, 116 (36.5%) Saginaw High graduates.
 - 43.7% wre enrolled in two-year programs, 34.6% in four-year programs.
- At least 66% of all respondents across all categories were enrolled in a four-year college/university or two-year junior/community college.
- Of four-year and two-year colleges attendance:
 - The percent of females (48.4%) in two-year colleges/universities exceeded males (37.3%).
 - The percent of females (35.9%) in four-year colleges exceeded males (32.8%).
 - The percent of Arthur Hill graduates (45.5%) in twoyear colleges exceeded Saginaw High School graduates (40.5%).
 - The percent of Arthur Hill graduates (34.7%) in fouryear colleges exceeded Saginaw High School graduates (34.5%).
- Dance school was the third highest institution attended by:
 - American Indian, Black, White, and Spanish-American graduates (20.0%, 11.5%, 10.2%, and 7.1% respectively).
 - Saginaw High and Arthur Hill students (12.9% and 9.4% respectively)

A review of the types of post secondary schools attended by 1988 and 1986 graduates reveal a large increase in two-year college attendance. The chart on the following page contrasts the percent of 1988 and 1986 graduates attending different types of schools.



Type of School		1988 Z	1986		
Junior or Community College		43.7	27.9		
College or University		34.6	51.1		
Other		10.7	2.5		
Apprenticeship, Vocational-Technical School		8.5	8. 0		
Business School		1.0	5. 5		
Adult Education		0.6	1.3		
Skilled Personal Service School		0.6	0.8		
Management Training		0.3	0.4		
Military School			2.5		
TOTAL	%	100.0	100.0		
	N	318	237		

The largest increase in types of schools attended from 1986 to 1988 were in junior or community colleges (+15.8%). The largest decrease appeared in colleges or universities (-16.5%). Thus junior/community college attendance seems to be increasing while four-year college attendance is decreasing.

The chart presented below contains the number and percent of graduates enrolled in post high school education by institution.

Post Secondary School Attended	1988 Graduates			
Delta Community College	118 37.1			
Army/Navy/Air Force (Armed Services)	34 10.7			
Saginaw Valley State University	22 7.0			
Great Lakes Junior College	15 4.7			
Averill Career Opportunities Center	14 4.4			
Michigan State University	14 4.4			
Central Michigan University	9 2.9			
University of Michigan	7 2.2			
ITT Technical Institute	6 1.9			
Lansing Community College	6 1.9			
Western Michigan University	6 1.9			
Northwood Institute	5 1.6			
Eastern Michigan University	4 1.3			
Michigan Technological University	4 1.3			
Oakland University	4 1.3			
Alabama State University	3 1.0			
Alma College	3 1.0			
Ferris State College	3 1.0			
Murphy Beauty School	3 1.0			
Cheynay University	2 0.6			
Devery: Columbus, Ohio	2 0.6			
OIC (Opportunities Industrialization Ctr)				
Kalama zoo Junior	2 0.6			
California Community College Suomi College	2 0.6			
Aquinas College	1 0.3			
Baker Junior College	1 0.3			
Central State University of Ohio	1 0.3 1 0.3			
Davenport College	1 0.3			
General Motors Institute	1 0.3			
Knoxville College	1 0.3			
Purdue University	1 0.3			
Siena Heights College	1 0.3			
Southern University	1 0.3			
Morehouse College	1 0.3			
Jackson State University	1 0.3			
Clark College: Atlanta, Georgia	1 0.3			
Tennessee State	1 0.3			
Grand Valley State University	1 0.3			
Dienzer Junior College: Colorado	1 0.3			
Wiley College: Texas	1 0.3			
Henry Ford Community College	1 0.3			
Adult Education	1 0.3			
Chicago Art Institute	1 0.3			
Adrian College	1 0.3			
Liberty University: Virginia	1 0.3			
Ohio State University	1 0.3			
Goshen College	1 0.3			
Associated Schools, Inc.: Florida	1 0.3			
Beauty School: Finland	1 0.3			
Berklee College of Music: Boston	1 0.3			
University of Detroit	$\frac{1}{310} \frac{0.3}{1000}$			
	318 100.0			



As can be seen the five of the six most frequently cited educational institutions are in Michigan with the exception of the armed services. These six post-secondary schools represent 68.3% (217 of 318) of the 1988 graduates seeking further education.

These graduates were training for a variety of careers. Careers were categorized into one of twelve career emphases (see Appendix F). Table 7 below contains career information by system, sex, ethnic background, and building.

TABLE 7. FOST-HIGH SCHOOL EUCATRONAL CAREER IMHIASIS OF 1988 GRADUATES BY SYSTEM, CENDER, KINNIC BACKGROUND, AND SCHOOL.

	EDUCATIONAL		SYSTEM								ARTHUR HILL			SAGINAW HIGH		
	CAREER EMHASTS	Total %	Gen Female %	der Male %	Am In	Eth White %	nic Backg Sp-An %	round Black %	Oriental %	Total	Ger Female %	der Male %	Total %	Ge Fenale	nder Male	
	Business	24, 4	31.3	15,0	0.0	16,5	35, 7	29.7	0.0	21.9	30.1	11.4	29.0	33, 3	22, 2	
	Law & Government	15,5	7.7	26,3	20.0	13.4	14.3	17.4	0.0	13.9	7.1	22.7	18.4	8.7	33.4	
	Undecided	12.0	12,6	11.2	0.0	18, 9	17.8	5.8	0.0	16.4	17.7	14.8	4.4	4.4	4,4	
	Medicine, Health Services	10.5	16,5	2,3	20.0	7.9	10.7	12,3	0,0	8.0	12.4	2,3	14,9	23,1	2,2	
	Education & Social Services	8,6	10.4	6,0	20,0	7. 9	10.7	8,4	0,0	9.0	12.4	4,5	7.9	7.2	8,9	
)	Engineering & Architecture	8,3	1. 7	17.3	0.0	11.0	0.0	7. 7	0.0	9,0	0.9	19.3	7.0	2,9	13,4	
	Commercial Arts & Communications	6.0	5, 5	6, 8	0.0	6,3	Q.O	7. 1	0.0	4.4	4,4	4,5	8,8	7.2	11.1	
	Science & Agriculture	4.8	6,0	3.0	0.0	5, 5	3.6	4. 5	0.0	5.4	7. 1	3, 4	3,5	4.4	2, 2	
	Fine Arts & letters	3,2	3.3	3.0	0.0	4. 7	3,6	1.9	0.0	3,5	2.6	4.5	2,6	4.4	0.0	
	Services (food mgmt, cosmetology)	3.2	3,8	2.3	40, 0	3,9	0.0	1.9	0.0	3,5	3, 5	3, 4	2,6	4.4	0.0	
	Construction, Indus- trial, & Skilled Trade	2,5	üá	. 5.1	0.0	2.4	3,6	2.6	0,0	4.0	0,9	8,0	0.0	0.0	0.0	
	Transportation	1.0	0.6	1.5	0,0	1.6	0,0	0.7	0.0	1.0	0,9	1.2	0.9	0.0	2.2	
	38 TOTAL N	100,0 315	100,0 182	100.0 133	1 00. 0 5	100.0 127	100.0 28	100, 0 155	 0	100,0 201	100, 0 113	100, 0 88	100.0 114	100.0 69	100.0 45	

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Highlights from Table 7 include:

- System-wide, the most frequently mentioned careers were business (24.4%) and law and government (15.5%).
- A total of 12% of all respondents were undecided in their career choices.
- There are marked differences system-wide between the percentage of males and females pursuing the following careers:
 - Female dominated
 - --Business (31.3% females and 15.0% males)
 - --Medicine/health services (16.5% females and 2.3% males)
 - --Science and agriculture (6.0% females and 3.0% males)
 - Male dominated
 - --Law/government (26.3% males and 7.7% females)
 - -- Engineering/architecture (17.3% males and 1.7% females)
 - --Construction, industrial, and skilled trades (5.3% males and 0.6% females)
 - --Transportation (1.5% males and 0.6% females)
- The most frequently mentioned career emphasis of all repsonding sub-population groups (with more than five respondents in a group) was business.
- Only Whites (127). Blacks (155), and Spanish-Americans (28) are represented by large enough numbers to make any meaningful comparisons.
 - Top five career emphases by ethnic group follow:
 - --Whites:
 - Undecided (18.9%)
 - Business (16.5%)
 - Law/government (13.4%)
 - Engineering/architecture (11.0%)
 - Medicine/health services (7.9%)
 - Education and social services (7.9%)
 - --Blacks:
 - Business (29.7%)
 - Law/government (17.4%)
 - Medicine/health services (12.3%)
 - Education and social services (8.4%)
 - Engineering/architecture (7.7%)



- --Spanish-Americans:
 - Business (35.7%)
 - Undecided (17.8%)
 - Law/government (14.3%)
 - Medicine/health services (10.7%)
 - Education and social services (10.7%)
- School totals show the top three career choices to be as follows:
 - Arthur Hill
 - --Business (21.9%)
 - --Undecided (16.4%)
 - --Law/government (13.9%)
 - Saginaw High
 - --Business (29.0%)
 - --Law/government (18.4%)
 - --Medicine/health services (14.9%)
- Building results repeat system findings for males and females.

Differences in careers pursued by graduates between 1988 and 1986 seem worthy of note. The chart below portrays the percent of respondents for both years by career emphasis.

Educational Career Emphases	1988	<u>1986</u>		
		Z	Z	
Business		24.4	33.2	
Law and Government		15, 5	8. 5	
Undecided		12.0	8. 5	
Medicine, Health Services		10.5	11.6	
Education and Social Services		8.6	7.5	
Engineering and Architecture		8.3	12.6	
Commercial Arts and Communications		6.0	5.0	
Science and Agriculture		4.8	4.0	
Fine Arts and Letters		3.2	4.0	
Services (food mgmt, cosmetology)		3.2	1.0	
Construction, Industrial and Skilled Trade		2.5	3, 5	
Transportation		1. 0	0, 5	
TOTAL	%	100.0	99.9*	
_	N	315	199	

^{*}Rounding error.



The two largest decreases from 1986 to 1988 occur in business (-8.8%) and engineering/architecture (-4.3%). A substantial increase can be observed in law/government (+7.0%) and those undecided (+3.5%) in their c seer choices.

The 1988 graduates, who pursued further education, were also asked, what the single most serious educational problem was they had met since graduation. Table 8 on the following page contains data regarding educational problems encountered by graduates in their post-secondary education.

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TABLE 8. MOST SERIOLS EDUCATIONAL PROBLEM OF 1988 GRADUATES BY SYSTEM, CENTER, ETHNIC BACKGROUND, AND SCHOOL.

	<u> </u>	.		SYS	TEM	_			AR	THUR HILL		S/	AGINAW HIQ	н
EDUCATIONAL PROBLEM		Gen	ler		Etl	nic Backs	round			Gen	ier		Ger	nder
	Total %	Remale %	Male %	Am In %	White %	Sp-Am %	Black %	Oriental %	Total %	Remale %	Male %	Total %	Remale	
No Educational Problem	79.6	75.9	85.6	50.0		78.6	80, 8	0.0	79,7	74.1	87.7	79.4	78.6	80.9
lacked Basic Educa- tional Skills	5.5	7.0	3, 2	0.0	4, 9	7.1	5, 9	0.0	4.6	5.2	3.7	7.1	10.0	2,
Money Problems	3,3	3.3	3, 2	33.3	4.0	0.0	2.0	0,0	3.6	4.3	2,5	2.7	1.4	4.8
Lack of Study Habits	3.3	3.8	2.4	0.0	4.8	0.0	2,7	0.0	3,1	4.3	1.2	3,6	2,9	4, 7
Problems with School Information	1.9	2,7	0.8	0,0	0.8	7.1	2.0	0,0	1.5	2.5	0.0	2.7	2.8	2, 4
Lack of Higher Math Skills	1.6	1.6	0,8	0.0	0.8	0.0	2. 7	0.0	0,5	0, 9	0,0	3,6	4.3	2,4
Unable to Establish Coals	1.3	0,6	2,4	0.0	1.6	0,0	1.3	0, 0	2.0	0,9	3. 7	0.0	0.0	0,0
Lack of Motivation	1,3	1.1	1.6	16.7	0.0	0.0	2.0	0,0	1.5	1.7	1. 2	0,9	0.0	2.4
Time	1.0	1.6	0.0	0.0	0.8	3.6	0,6	0. 0-	1.5	2.5	0.0	0.0	0.0	0.0
Personal Problems	0.3	0.6	0.0	0.0	0.8	0.0	0.0	0,0	0.5	0.9	0.0	0.0	0.0	Q, (
Transferred from High School to College	0.3	0.6	0.0	0.0	°0.8	0.0	0.0	0.0	0,5	0.9	0.0	0.0	0.0	0.0
Transportation	0.3	0.6	0.0	0.0	0.0	3.6	0.0	0.0	0,5	0.9	0.0	0.0	0.0	0,0
Combination of Problems	0.3	0.6	0.0	0.0	0.8	0.0	0.0	0.0	0.5	0.9	0.0	0.0	0.0	0.0
Disappointed with Choice of School or Educational Program	0.0	0.0	0,0	0,0	0,0	0.0	0,0	0,0	0.0	0.0	0,0	0.0	0.0	0.0
Prejudice and/or Dis- crimination (e.g., sex, race, age, etc.)	0, 0	0.0	0.0	Q, Ü	0,0	0.0	0.0	0,0	0.0	0.0	0.0	0.0	0,0	Q, (
72 TOTAL N	100.0 309	100.0 186	100.0 123	10 0. 0 6	100.0 124	100 . 0 28	100 . 0 151	 0	100.0 197	100.0 116	100,0 81	100.0 112	100 . 0 70	100,0

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A review of the data contained in Table 8 reveals that:

- Over two-thirds of the respondent graduates (79.6%) faced no major educational problem.
- The three most often mentioned educational problems systemwide were:
 - Lacked basic educational skills (5.5%)
 - Money problems (3.3%)
 - Lack of study habits (3.3%)
- By system, there are marked differences (at least twice as many) between the percentage of males and females stating educational problems encountered.
 - More females (7.0%) experienced deficiencies in their basic educational skills than males (3.2%).
 - More females (2.7%) had problems with obtaining school information than males (0.8%).
 - More females (1.6%) lacked higher math skills than males (0.8%).
 - More males (2.4%) were unable to establish educational goals than females (0.6%).
- Only Whites (124), Blacks (151), and Spanish-Americans (28) are represented by large enough numbers to make any meaningful statement by ethnic background.
 - Having no educational problems was only slightly more characteristic of Blacks (80.8%) than either Whites (79.9%) or Spanish-Americans (78.6%).
 - The top three named educational problems for Whites, Spanish-Americans, and Blacks are:

--Whites:

- Lacked basic educational skills (4.9%)
- Lack of study habits (4.8%)
- Money problems (4.0%)

-- Spanish-American:

- Lacked basic educational skills (7.1%)
- Problems with school information (7.1%)
- Time (3.6%)
- Transportation (3.6%)

--Blacks:

- Lacked basic educational skills (5.9%)
- Lack of study habits (2.7%)
- Lack of higher math skills (2.7%)
- The top three educational problems for Arthur Hill female and male graduates were:
 - Females
 - --Lacked basic educational skills (5.2%)
 - --Money problems (4.3%)
 - --Lack of study habits (4.3%)
 - Males
 - --Lacked basic educational skills (3.7%)
 - --"nable to establish goals (3.7%)
 - --Money problems (2.5%)
- The top three educational problems for Saginaw High females and male graduates were:
 - Females
 - --Lacked basic educational skills (10.0%)
 - -- Lack of higher math skills (4.3%)
 - -- Lack of study habits (2.9%)
 - Males
 - --Money problems (4.8%)
 - --Lack of study habits (4.7%)
 - --Lacked basic educational skills (2.4%)
 - -- Problems with school information (2.4%)
 - --Lack of higher math skills (2.4%)
 - -- Lack of motivation (2.4%)

Some striking differences are apparent when comparing the educational problems noted by the 1988 and 1986 graduates. The chart below presents the in-school 1988 and 1986 graduates by most serious educational problem encountered.



Educational Problem	1988 Z	1986 Z
No educational problem	79.6	46.5
Lacked basic educational skills	5. 5	6.4
Money problems	3.3	26.6
Lack of study habits	3. 3	4.3
Other	2.8	2. 3
Lack of higher math skills	1. 6	0.3
Unable to establish goals	1.3	4.7
Lack of motivation	1. 3	0.3
Time	1.0	0.3
Personal problems	0.3	4.0
Unable to follow plans to accomplish goals	0.0	1.7
Disappointed with choice of school or educational program	0.0	2.3
Prejudice and/or discrimination (e.g., sex, race, age, etc.)	0.0	0.3
TOTAL	100.0	100.0
N	309	299

The two largest decreases from 1986 to 1988 occur in money problems (-23.3%) and unable to accomplish goals (-3.4%). The largest increase can be observed in no educational problem (+33.1%).

A FINAL WORD

The most significant results of the follow-up study of Saginaw's 1988 high school graduates have been presented. Data relevant to the graduates' employment post-high school education, and perceptions of their problems as they entered employment or further schooling have been reviewed. Comparisons between the responses of 1986 graduates and the 1988 graduates have been made when possible.

From the survey data there emerged some important points to be highlighted. They include:

- 1. Of the 493 respondents:
 - Approximately <u>fifty-nine percent</u> (58.9%) of the respondents were <u>enrolled in some kind of educational program</u> (full- or part-time)
 - 11.3% were employed full-time
 - 11.9% were employed part-time
- Ten months after graduation 10.6% of the respondents were unemployed. The percent of unemployed SHS graduates (11.4%) was over eight times that at AHHS (1.4%).
- 3. Most employed graduates (70.1%) were working in relatively unskilled jobs—serving personal needs of people; waiting on customers; manual work; and clerical.
- 4. Almost half of the graduates (42.0%) were employed in personal services industries.
- 5. The most common serious occupational problems encountered by graduates since graduation were:
 - Unable to find the right job (8.7%)
 - No work available (2.6%)
 - A combination of problems (1.5%)
- 6. Approximately eighty percent (78.3%) of the graduates who continued their education were attending either two or four year colleges or universities.



- 7. Of the 318 graduates (64.5% of the respondents who went on to some type of further education), 202 (63.5%) were from Arthur Hill and 116 (36.5%) from Saginaw High.
- 8. <u>Business</u> (24.4%), <u>law/government</u> (15.5%), <u>undecided</u> (12.0%) were the <u>three most frequent fields of study</u> for these graduates.
- 9. The three most common serious educational problems encountered by graduates since graduation were:
 - Lacked basic education al skills (5.5%)
 - Money problems (3.3%)
 - Lack of study habits (3.3%)

Attempting to put these facts in perspective at this time is difficult. Young people after graduation are still searching for something to make their lives meaningful so they may enter a college or university, and then drop out, take a part- or a full-time job for a short period of time, move out of state and get married, etc. Thus it is impossible to make a meaningful evaluation of the entire impact of the Saginaw Schools after only 10 months since graduation. Our attempt in conducting this study now was more to get a snapshot of these graduates and compare them to other snapshots gained from past graduate follow-ups.

Our hope is to work with high school counselors this fall in attempting to contact our students just prior to graduation to obtain a means to contact them a number of times (10 months, 30 months, 60 months, and maybe 80 months) after graduation. Hopefully this planning can be accomplished to enable us to do a series of follow-up contacts over a longer period of time. These contacts further removed from the time of graduation will put us in a better position to make a more powerful assessment of the educational offerings and experiences of Saginaw graduates.

APPENDICES

PROJECT GREAT AND FOLLOW-UP STUDY PHONE SURVEY OF 1988 HIGH SCHOOL GRADUATES

Stu	dent Name: dent Number: h School Graduated from:
1.	Did you receive your high school diploma? (Check one) Yes No
	Comments:
2.	Have you continued in school since graduating? (Check one) Yes No If no, go to Question 6. Comments:
3.	Are you a full-time or part-time student? (Check one)
	Full-time Part-time No, I am a former student If no, go to Question 6.
	Comments:



a.	What one t	is yo	our planned major course of study at this school? (Check the best applies.)
		01.	Business. such as management, data processing, accounting, personnel management, banking.
		02.	Commercial Arts and Communication: such as photography, printing, graphic arts, illustrations, advertising, journalism, television industry, and radio broadcasting.
		03.	Construction, Industrial, and Skilled Trades: such as refrigeration, carpentry, sheet metal, plumber, machinist, and electrician.
		04.	Education and Social Services: such as clergy, counseling, recreation, teaching, and professional youth leadership.
	<u>·</u>	05.	Engineering and Architecture: such as construction management, drafting, mechanical drawing, engineeringelectrical/civil/mechanical, and landscape architecture.
		06.	Fine Arts and Letters: such as music, English, painting, sculpture and dramatics.
		07.	Law and Government: such as law enforcement, lawyer, military science, and city management.
		08•"	Medicine and Health Services: such as dentistry, hospital administration, medical services, nursing, pharmacy, psychiatry, and veterinary medicine.
		09.	Science and Agriculture: such as physics, mathematics, forestry, conservation, chemistry, zoology, poultry science, and horticulture.
		10.	<u>Services</u> : such as auto repair, food management, chef, cosmetology, home economist, mortician.
		11.	Transportation: such as aviation careers, airline stewardess, railroad careers, and drivers-truck and bus.
		12.	Other (please specify):

4b. What is the name of the school(s) you have attended since graduating? (Mark all that apply. Use a one (1) to indicate the school currently attended, a two (2) to indicate the second most recently attended, etc.)

Alpha Order

		•
	ı.	A & T University, North Carolina
	2.	Alabama State University
	· 3.	Alma College
	4.	American Musical & Dramatic Academy, New York
	5.	Aquinas College
	6.	Army/Mavy/Air Force (Armed Services)
	7.	Associated Schools, Inc.
	8.	Averill Career Opportunities Center
	9.	Baker Junior College
	10.	Ball State, Muncie Indiana
-	11.	Bethune-Cookman College
	12.	Central Michigan University
	13.	Central State University of Ohio
-	14.	Davenport College
	15.	Delaware State University
	16.	Delta Community College
	17.	Eastern Michigan University
	18	Ferris State College
	1 9	Florida A & M University
	20.	General Motors Institute
	21	Crembling University
-	21.	Grambling University
	22.	Great Lakes Junior College
	2.6	Howard University
	24.	ITT Technical Institute
	25.	Johnson C. Smith University
	20.	Kendall School of Design
-	2/.	Knoxville College
	28.	Lake Michigan University
	29.	Lake Superior State College
	30.	Lansing Community College
-	31.	Louisiana Northwestern State University
	32 _e	McDonalds, Inc.
	33.	Michigan State University
	34.	Michigan Technological University
	35.	Murphy Beauty School
	36.	Norfolk State University
	37.	Northern Michigan University
	38.	Northwestern Michigan College
	39.	Northwood Institute
	40.	Oakland University
	41.	Purdue University
	42.	Rochester Institute of Technology
	43.	Ruben Daniels Lifelong Learning Center
	44.	Saginaw County Community Action Committee Youth Employment Center
	45.	Saginaw Valley Rehabilitation Center
	46.	Saginaw Valley State University
	47.	Siena Heights College
	48.	Southern University
	49.	Tri-City SER
	50.	University of Florida
	51.	University of Michigan
	52.	University of Wisconsin
	53.	Washington D. C. University
	54.	Wayne State University 53
	55.	Western Michigan University
	56.	

4c.	[What t	уре	of school do you currently attend? (Check one)]*
	0	1.	Apprenticeship school, vocational-technical, and/or correspondence school
		2.	Management training program
		3.	Nursing school
	فستستانه	4.	Bible school
	0		Business school
	0		Adult education
	0	7.	cosmetology, cooking, tailoring, etc.)
		8.	Junior or community college
		9.	College or university
	l	0.	Other (please specify):
4d.	What is	the	single most serious educational problem, if any, that you note graduating?
	0.	ı.	No oducational analy
		_	No educational problem Money problems
			Lacked basic educational skills
			Unable to establish goals
			Unable to follow plans to accomplish goals Lack of study habits
			Personal problems"
	a		M sappointed with chains of set 1
	08		Disappointed with choice of school or educational program Lack of higher math skills
			Lack of motivation
		i. :	
	13	3. (Prejudice and/or discrimination (e.g., sex, race, age, etc.) Other (please specify):
5.		s	nning to enroll in any school program for the Fall, 1989 semester? If no, what are your plans for fall? Yes" or "No" check 05 for Operion 6 (except for the Fall)
	For eith	er "	Yes" or "No" check 05 for Question 6 (except for in Military



activity	you been doing since you graduated last June? (Indicate primar by checking <u>one</u> .)
01.	Employed, full-time (30 or more hours per week)
02.	Employed, part-time (less than 30 hours per week) Go to 0. 7A
	Layed-off
04.	In the military service
05.	In a training program, school, or college full- or part-time
06.	Unemployed, seeking work (Go to 0. 9
07.	Unemployed, not seeking work
08.	Homemaker
09.	Other (please specify):
	of Company/Business/Organization)
(Name	
(Name	of Company/Business/Organization)
(Name [Please ca	of Company/Business/Organization) ategorize employer by the industrial group below. (Check one)] Construction Manufacturing
(Name [Please ca	of Company/Business/Organization) Itegorize employer by the industrial group below. (Check one)] Construction Manufacturing Transportation, communication and other public utilities
(Name [Please ca	of Company/Business/Organization) Attegorize employer by the industrial group below. (Check one)] Construction Manufacturing Transportation, communication and other public utilities Wholesale and retail trade
(Name [Please ca	of Company/Business/Organization) Attegorize employer by the industrial group below. (Check one)] Construction Manufacturing Transportation, communication and other public utilities Wholesale and retail trade Finance, insurance, and real estate
(Name Please ca	of Company/Business/Organization) ategorize employer by the industrial group below. (Check one)] Construction Manufacturing Transportation, communication and other public utilities Wholesale and retail trade Finance, insurance, and real estate Entertainment and recreational services
(Name (Please ca 01. 02. 03. 04. 05. 06. 07.	of Company/Business/Organization) Attegorize employer by the industrial group below. (Check one)] Construction Manufacturing Transportation, communication and other public utilities Wholesale and retail trade Finance, insurance, and real estate Entertainment and recreational services Professional and related services (i.e., health services, schools, legal, engineering, military, government, etc.)
(Name [Please ca	of Company/Business/Organization) ategorize employer by the industrial group below. (Check one)] Construction Manufacturing Transportation, communication and other public utilities Wholesale and retail trade Finance, insurance, and real estate Entertainment and recreational services

/b.	What	do you do for this employer? (Check one that best applies.)
	01.	Caring for People or Animals: such as a nursing home, nursery, hospital, pet store, or animal laboratory.
***************************************	02.	Musical and Entertainment Activities: such as singing, composing, dancing, or dramatics.
	03.	Artistic Work: such as painting, sculpturing, flower arranging, photography, fashion designer, interior decorating.
	04.	Communications Work: as in radio or television announcing, journalism, news information reporting, interviewing, writing, editing or translating.
	05.	Promotional Activities: as in publicity work, recruiting, or advertising.
	06.	Number Work: as in accounting, computer programming, finance, and mathematics.
	07.	Inspecting and Measuring: as in sorting, measuring, and grading products; or checking equipment meters, public places, and surveying land.
	08.	Clerical Work: such as filing, typing, key punching, stenography, or keeping records.
	09.	Manual Work: as a construction laborer, manufacturing laborer, janitor, or furniture mover.
-	10.	Machine Work: as in adjusting and operating machines used in the cutting or shaping of metal, cloth, etc. Includes driving tractor-trailer trucks and operating heavy equipment.
	11.	<u>Craftsmanship</u> : as found in the building trades, printing, watch repairing, welding, or tool and die making.
	12.	Skilled Operation, Repair, or Installation of Precision Equipment: include television technicians, computer operator, auto mechanics; or furnace, air conditioner, and appliance repairman.
	13.	Serving Personal Needs of People: as a waiter, waitress, maid, doorman, messenger, laundry man, or gas station attendant.
	14.	Providing Skilled Services for People: as a restaurant or short order cook beautician, barber, tailor, dressmaker, policeman, or stewardess.
	15.	Waiting on Customers: in stores, banks, motels, office, or at home, helping telephone customers with business orders, and reservations; tour guides, ticket and toll collectors.
	16.	Selling and Merchandising Work: as a department store buyer, factory sales representative; or wholesaler. Includes the selling of manufactured and commercial products, services, insurance, and real estate.
دروز کا انگلا	17.	Managerial Work: as a shop foreman, supervisor; owning or managing a small store or business.



8.	What is the si have had to do	ingle most serious occupational problem, if any, that you eal with since graduating?
	02. Uns 03. No 04. Lac 05. Lac 06. Per	occupational problem able to find the right job work available ked skills and technical knowledge ked job experience sonal problems sappointed with occupational choice able to follow plans to accomplish goals judice and/or discrimination
	10. Uns 11. A c 12. Thr 13. Bei 14. Att	ble to establish goals ombination of problems eat of layoff ng over qualified ending college full-time k of funds for college er (please specify):
9.	Do you know wh	at you want to do for a living? (Check one)
	Yes No	If no, Project GREAT pitch: assessment, training, job search, open house information, address verification. END SURVEY
10.	Can you presen	Lly earn a living doing that now? (Check one)
	Yes	If yes, would you like to earn more money?
		Yes If yes, Project GREAT pitch/address verification. END SURVEY No
	No	If no, Project GREAT pitch - END SURVEY

THANK YOU VERY MUCH FOR YOUR TIME!



TABLE B. 1. COMPARISON OF THE 1986 AND 1988 CRADUATES TO THE 1986 AND 1988 CRADUATES AND CENTER.

		ARTI	UR HILL			SAGI	NAW HIG	н		S	STEM	
Race & Sex	Graduates		Follow-Up	Respondents	Graduates		Fallow-lp	Respondents	Oraduates		Follow-Up Respondents	
	1986 # %	1988 # %	1986 # %	1988 # %	1986 # %	1988 # %	1986 # %	1988 # %	1986 # %	1988 # %	1986 # %	1988 # %
Mack Male									†			-
	35 (35.4)	45 (46.4)	15 (25.4)	28 (46.7)	100 (41.7)	119 (39.5)	46 (35.4)	76 (39,2)	135 (39,8)	164 (41.2)	61 (32,3)	104 (40.9)
Female Total	99 (100,0)	52 (53,6) 97 (100,0)	44 (74.6) 59 (100.0)	32 (53,3) 60 (100,0)	140 (58.3)	182 (60.5)	84 (64.6)	118 (60,8)	204 (60,2)	234 (58,8)	128 (67.7)	150 (59.1)
wai	33 (1000)	77 (1040)	39 (1040)	au (100,0)	240 (100,0)	301 (100, Ö)	130 (100,0)	194 (100.0)	339 (100.0)	398 (100.0)	189 (100,0)	254 (100,0)
Sp. A. Male					!				l			
Male Female	15 (44.1) 19 (55.9)	21 (36, 2) 37 (63, 8)	8 (42.1)	12 (30.8)	2 (28.6)	0 (0.0)	1 (25.0)	0 (0.0)	17 (41.5)	21 (35.6)	9 (39,1)	12 (30, 8)
Total	34 (100.0)	58 (100,0)	11 (57.9) 19 (100.0)	27 (69,2) 39 (100,0)	5 (71.4) 7 (100.0)	1 (100,0) 1 (100,0)	3 (75.0) 4 (100.0)	0 (0.0)	24 (58.5)	38 (64.4)	14 (60.9)	27 (69.2)
	. (2000)	30 (1040)	17 (1000)	33 (1040)	7 (1000)	1 (100,0)	4 (1040)	0 (0.0)	41 (100,0)	59 (100,0)	23 (100,0)	39 (100,0)
White												
Male Female	149 (51.2)	126 (46, 7)	113 (51.8)	89 (47.3)	7 (70.0)	4 (66.7)	6 (75.0)	3 (60.0)	156 (51.8)	130 (47.1)	119 (52,7)	92 (47.7)
remate Total	291 (100.0)	144 (53,3) 270 (100,0)	105 (48.2) 218 (100.0)	99 (52,7) 188 (100,0)	3 (30.0)	2 (33.3)	2 (25.0)	2 (40.0)	145 (48.2)	146 (52.9)	107 (47.3)	101 (52,3)
	(1000)	2,0 (1040)	210 (10040)	100 (1040)	10 (1000)	6 (100,0)	8 (100,0)	5 (100,0)	301 (100,0)	276 (100,0)	226 (100,0)	193 (100,0)
An. Indian												
Male Female	8 (57.1)	2 (25.0)	4 (44.4)	2 (28.6)	1 (33,3)	0 (0.0)	1 (50.0)	0 (0.0)	9 (50.0)	2 (25.0)	5 (45.5)	2 (28,6)
renate Total	14 (100,0)	6 (75.0) 8 (100.0)	5 (55,6) 9 (100,0)	5 (71.4) 7 (100.0)	3 (66.7) 4 (100.0)	0 (0.0)	1 (50.0)	0 (0.0)	9 (50.0)	6 (75.0)	6 (54.5)	5 (71.4)
~~~	14 (1040)	0 (1040)	9 (10060)	/ (1040)	4 (100.0)	0 ( 0.0)	2 (100,0)	0 ( 0,0)	18 (100.0)	8 (100,0)	11 (100,0)	7 (100.0)
Oriental					1							
Male	5 (71.4)	1 (100.0)	4 (80.0)	0 ( 0.0)	0 ( 0.0)	0 ( 0.0)	0 ( 0.0)	0 ( 0.0)	5 (71.4)	1 (100.0)	4 (80.0)	0 ( 0.0)
Female Total	2 ( 28,6) 7 (100,0)	0 ( 0,0) 1 (100,0)	1 (20.0)	0 ( 0.0)	0 ( 0.0)	0 ( 0.0)	0 ( 0.0)	0 ( 0.0)	2 ( 28.6)	0 ( 0.0)	1 (20.0)	0 ( 0.0)
ULAL	/ (1040)	1 (1040)	5 (100.0)	0 ( 0.0)	0 ( 0.0)	0 ( 0.0)	0 ( 0.0)	0 ( 0.0)	7 (100,0)	1 (100,0)	5 (100.0)	0 ( 0.0)
Grand Total					1							
Male	212 (47.6)	195 ( 44.9)	144 (46.5)	131 ( 44.6)	110 ( 42.1)	123 ( 39, 9)	54 ( 37.5)	79 ( 39.7)	322 ( 45, 6)	318 ( 42.9)	198 (43.6)	210 ( 42, 6)
Female	233 ( 52.4)	239 ( 55.1)	166 (53,5)	163 ( 55,4)	151 ( 57.9)	185 (60,1)	90 (62,5)	120 ( 60.3)	384 ( 54.4)	424 ( 57.1)	256 (56.4)	283 ( 57.4)
lotal	445 (100.0)	434 (100.0)	311* (100,0)	294 (100,0)	261 (100.0)	308 (100,0)	144 (100.0)	199 (100,0)	706 (100.0)	742 (100,0)	455* (100,0)	493 (100,0)

*Gex and race data unavailable for one (1) respondent.



#### APPENDIX C

### OCCUPATIONAL CATEGORIES USED IN SAGINAW'S 1988 AND 1986 FOLLOW-UP STUDIES

- 01. Caring for People or Animals, such as a nursing home, nursery, hospital, pet store, or animal laboratory.
- 02. <u>Musical and Entertainment Activities</u>, such as singing, composing, dancing, or dramatics.
- 03. Artistic Work, such as painting, sculpturing, flower arranging, photography, fashion designer, interior decorating.
- Communications Work, as in radio or television announcing, journalism, news information reporting, interviewing, writing, editing or translating.
- 05. Promotional Activities, as in publicity work, recruiting, or advertising.
- 06. Number Work, as in accounting, computer programming, finance, and mathematics.
- 07. <u>Inspecting and Measuring</u>, as in sorting, measuring, and grading products; or checking equipment meters, public places, and surveying land.
- 08. Clerical Work, such as filing, typing, key punching, stenography, or keeping records.
- 09. Manual Work, as a construction laborer, manufacturing laborer, janitor, or furniture mover.
- 10. Machine Work, as in adjusting and operating machines used in the cutting or shaping of metal, cloth, etc. Includes driving tractor-trailer trucks and operating heavy equipment.
- 11. Craftsmanship, as found in the building trades, printing, watch repairing, welding, or tool and die making.
- 12. Skilled Operation, Repair, or Installation of Precision Equipment, includes television technicians, computer operators, auto mechanics; or furnace, air conditioner, and appliance repairman.
- 13. <u>Serving Personal Needs of People</u>, as a waiter, waitress, maid, doorman, messenger, laundry man, or gas station attendant.
- 14. Providing Skilled Services for People, as a restaurant or short order cook, beautician, barber, tailor, dressmaker, policeman, or stewardess.
- 15. Waiting on Customers, in stores, banks, motels, offices, or at home, helping telephone customers with business orders, and reservations; tour guides, ticket and toll collectors.
- 16. Selling and Merchandising Work, as a department store buyer, factory sales representative, or wholesaler. Includes the selling of manufactured and commercial products, services, insurance, and real estate.
- 17. Managerial Work, as a shop foreman, supervisor; owning or managing a small store or business.



#### APPENDIX D

## MAJOR INDUSTRIAL GROUPS USED IN SAGINAW'S 1988 AND 1986 FOLLOW-UP STUDIES

- l. Construction
- 2. Manufacturing
- 3. Transportation, communication and other public utilities
- 4. Wholesale and retail trade
- 5. Finance, insurance, and real estate
- 6. Entertainment and recreational services
- 7. Professional and related services (i.e., health services, schools, legal, engineering, etc.)
- 8. Personal services (i.e., barber, hotels, garment services, shoe repair, etc.)
- 9. Other



### APPENDIX E

## POST-HIGH SCHOOL CATEGORIES USED IN SAGINAW'S 1988 AND 1986 FOLLOW-UP STUDIES

- 01. Apprenticeship school, vocational-technical, and/or correspondence school
- 02. Management training program
- 03. Nursing school
- 04. Bible school
- 05. Business school
- 06. Adult education
- 07. Skilled personal service schools (such as barber, cosmetology, cooking, tailoring, etc.)
- 08. Junior or community college
- 09. College or university



#### APPENDIX F

## EDUCATIONAL CAREER EMPHASIS CATEGORIES USED IN SAGINAW'S 1988 AND 1986 FOLLOW-UP STUDIES

- 01. Business: such as management, data processing, accounting, personnel management, banking.
- 02. <u>Commercial Arts and Communication</u>: such as photography, printing, graphic arts, illustrations, advertising, journalism, television industry, and radio broadcasting.
- 03. <u>Construction</u>, <u>Industrial</u>, <u>and Skilled Trades</u>: such as refrigeration, carpentry, sheet metal, plumber, machinist, and electrician.
- 04. Education and Social Services: such as clergy, counseling, recreation, teaching, and professional youth leadership.
- 05. Engineering and Architecture: such as construction management, drafting, mechanical drawing, engineering--electrical/civil/mechanical, and landscape architecture.
- 06. Fine Arts and Letters: such as music, English, painting, sculpture, and dramatics.
- 07. <u>Law and Government</u>: such as law enforcement, lawyer, military science, and city management.
- 08. Medicine and Health Services: such as dentistry, hospital administration, medical services, nursing, pharmacy, psychiatry, and veterinary medicine.
- 09. Science and Agriculture: such as physics, mathematics, forestry, conservation, chemistry, zoology, poultry science, and horticulture.
- 10. <u>Services</u>: such as auto repair, food management, chef, cosmetology, home economist, mortician.
- 11. Transportation: such as aviation careers, airline stewardess, railroad careers, and drivers-truck and bus.

