



# Analysis of Feeder Elementary Schools for a Nassau County and a Suffolk County Catholic High School

EDU 5650: School Based Data Analysis  
St. John's University – Oakdale Campus  
Fall 2010 – Dr. Jonathan Hughes

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# Chapter I: Purpose of Study

- Introduction
  - Tuition/Enrollment Based Finances
  - Demographics
  - Student Services
- Research Questions:
  - To analyze data that is useful in the determination of effective feeder schools to Catholic high schools

# Chapter I: Purpose of Study

- **Background Information**
  - A Nassau and a Suffolk Catholic High School
  - Current Financial Environment of Catholic Schools

Financial Information Budgeted -Home High School Nassau

	2007-08	2008-09	2009-10	2010-11
Enrollment	413	448	435	
Tuition	\$7,100	\$7,300	\$7,400	
Cost PP	\$11,592	\$10,709	\$10,953	
Expenses	\$4,787,592	\$4,797,592	\$4,764,592	
Subsidy	\$521,042	\$541,042	\$360,792	

Financial Information Budgeted -Home High School Suffolk

	2007-08	2008-09	2009-10	2010-11
Enrollment		307	392	400
Tuition		\$7,375	\$7,700	\$7,995
Cost PP		\$12,681	\$12,745	\$11,821
Expenses		\$5,669,650	\$5,546,945	\$5,924,331
Subsidy		\$750,000	\$550,000	\$500,000

Home High School Student Ethnicity - Nassau

School	Year	% White	% Black	% Hispanic	% Asian	%Other
High School A	08-09	68.30%	19.20%	7.14%	5.36%	0.00%
High School A	09-10	72.18%	16.78%	5.75%	5.29%	0.00%
High School A	10-11	77.24%	13.80%	5.81%	2.66%	0.48%

Home High School Student Ethnicity - Suffolk

School	Year	% White	% Black	% Hispanic	% Asian	%Other
High School B	08-09	83.19%	1.62%	5.69%	2.43%	6.23%
High School B	09-10	87.50%	2.80%	5.10%	0.26%	4.33%
High School B	10-11	83.25%	1.75%	7.50%	3.00%	4.50%

Mean PSAT Scores (scale of 800) -High School Nassau									
Critical Reading					Math				
	2006-07	2007-08	2008-09	2009-10		2006-07	2007-08	2008-09	2009-10
Sophomores	n/a	402	416	419		n/a	412	440	425
Juniors	n/a	441	467	459		n/a	451	488	453

Mean PSAT Scores (scale of 800) -High School Suffolk									
Critical Reading					Math				
	2006-07	2007-08	2008-09	2009-10		2006-07	2007-08	2008-09	2009-10
Sophomores	442	n/a	424	459		435	n/a	432	424
Juniors	505	n/a	485	458		492	n/a	489	457

# Chapter 1: Purpose of Study

- Definition of Terms
  - Per Pupil Cost – the cost of educating a student which is derived by dividing the total expenditures by the number of students enrolled.
  - Expended Per Pupil Cost – is a synonym for Per Pupil Cost, which is used in elementary school budgets.
  - Tuition – the expensed charged to the family of a student to attend the school for one academic year, sans registration fees.

# Chapter I: Purpose of Study

- **Definition of Terms**
  - Subsidy – the total funds given to a school by the governing body, which represents the shortfall between total revenue (including development funds and rental income) and total expenditures.
  - Subsidy Per Pupil – the amount derived by dividing the total subsidy by the enrollment.



# Chapter I: Purpose of Study

- Definition of Terms
  - Elementary School Grades – Pre K to 8
  - Feeder School – an elementary school whose students choose to attend one of the two home high schools in our study.

# Chapter 1: Purpose of Study

- Significance – By analyzing specific data points of both one's home school and feeder schools, the home schools are able to better understand their own strengths and needs of their feeder schools.

# Chapter 2: Literature Review

- **Conceptual Framework**
  - **Dr. Jonathan Hughes – Data Matters (2008)**
    - Content – What do we have?
    - Compare – Where do we stand?
    - Contrast – Why are we here?
    - Context – Why are we here?
    - Construct – How do we move forward?

# Chapter 2: Literature Review

- **Data Warehousing: Beyond Disaggregation**  
Lawrence M. Rudner and Carol Boston  
(2003)
  - Data are not an island
  - Comparing two data points is much more useful
  - Longitudinal data provides us with the big picture

# Chapter 2: Literature Review

- Sustainable Leadership – Hargreaves and Fink (2005)
  - Breadth – where do we stand and why are we here?
  - Depth - what do we have and what do they need?

# Chapter 3: Methodology

- Feeder Schools
  - Examined the Diocesan data available
  - Narrowed focused to four areas of data
    - Finance
    - Ethnicity
    - Student Performance
    - Instruction
  - Selected four data points for each area
  - Ranked schools in each area of data
  - Performed overall ranking

# Chapter 3: Methodology

- Home High Schools
  - Examined our local data warehouse available
  - Narrowed focused to areas related to the feeder schools
    - Finance
    - Ethnicity
    - Student Performance
- Examined descriptive and comparative data in order to formulate summative constructs
- Offered first step recommendation









# Chapter 4: Findings

Instructional Statistics 2008 - Feeder Schools Nassau

School	Village	Certified	Rank	Master's	Rank	under 6 yrs	Rank	over 25 yrs	Rank	Admin Exp	Inst Exp	% Inst.	Rank	Sum	Rank of Sums
A	1	87.5%	5	79.0%	4	16.7%	6	33.3%	1	\$286,661	\$1,253,321	81.39%	3	19	2
B	2	90.5%	6	76.0%	3	21.1%	5	15.8%	4	\$143,212	\$997,200	87.44%	5	23	1
C	3	84.0%	4	74.0%	2	26.3%	3	26.3%	2	\$189,134	\$749,670	79.85%	2	13	5
D	4	75.0%	3	80.0%	5	30.0%	2	25.0%	3	\$256,330	\$940,607	78.58%	1	14	4
E	5	73.7%	2	89.5%	6	40.0%	1	12.0%	5	\$141,608	\$808,711	85.10%	4	18	3
F	6	60.0%	1	60.0%	1	25.0%	4	10.7%	6	\$111,129	\$1,238,948	91.77%	6	18	3

Instructional Statistics 2008 - Feeder Schools Suffolk

School	Village	Certified	Rank	Master's	Rank	under 6 yrs	Rank	over 25 yrs	Rank	Admin Exp	Inst Exp	% Inst.	Rank	Sum	Rank of Sums
G	7	83.3%	4	75.0%	4	25.0%	5	33.3%	1	\$124,696	\$438,834	77.87%	3	17	1
H	8	57.1%	2	57.1%	3	50.0%	2	0.1%	2	\$99,473	\$598,288	85.74%	5	14	2
I	9	83.3%	4	44.4%	1	38.8%	4	0.1%	2	\$200,062	\$667,738	76.95%	2	13	3
J	10	65.2%	3	52.1%	2	65.2%	1	0.1%	2	\$225,337	\$973,965	81.21%	1	9	4
K	11	86.6%	5	80.0%	5	40.0%	3	0.1%	2	\$233,361	\$614,671	72.48%	2	17	1

# Chapter 4: Findings

Overall Ranking 2008 - Feeder Schools Nassau							
School	Village	Finance Rank	Demographic Rank	Instructional Rank	Assessment Rank	Sum	Rank of Sums
F	6	1	4	3	1	9	1
A	1	3	3	2	2	10	2
B	2	5	2	1	3	11	3
C	3	2	1	5	6	14	4
E	5	4	4	3	4	15	5
D	4	4	4	4	5	17	6

Overall Ranking 2008 - Feeder Schools Suffolk							
School	Village	Finance Rank	Demographic Rank	Instructional Rank	Assessment Rank	Sum	Rank of Sums
G	7	3	1	1	2	7	1
H	8	2	1	2	2	7	1
J	10	1	2	4	1	8	2
I	9	4	2	3	1	10	3
K	11	5	3	1	1	10	3

# Chapter 4: Findings

Enrollment from Feeds to Home High School - Nassau									
School	Village	2008 Enroll	2010 9th Grade Enroll Home School	Rank	2010 9th - 12th Grade Enroll Home School	Rank	Sum	Rank of Sums	
B	2	222	14	6	48	6	12	1	
A	1	369	7	5	37	5	10	2	
E	5	261	6	4	18	4	8	3	
C	3	262	3	3	10	3	6	4	
D	4	302	1	1	10	3	4	5	
F	6	450	2	2	8	2	4	5	

Enrollment from Feeds to Home High School - Suffolk									
School	Village	2008 Enroll	2010 9th Grade Enroll Home School	Rank	2010 9th - 12th Grade Enroll Home School	Rank	Sum	Rank of Sums	
G	7	140	15	4	77	5	9	1	
J	10	358	16	5	51	4	9	1	
H	8	262	11	3	46	3	6	2	
K	11	196	6	2	16	2	4	3	
I	9	208	4	1	9	1	2	4	

# Chapter 4: Findings

Ranking of Feeder Schools by Actual Enrollment		Nassau	Ranking of Feeder Schools Based on Analysis	
School	Rank of Sums		School	Rank of Sums
A	2		A	2
B	1		B	3
C	4		C	4
D	5		D	6
E	3		E	5
F	5		F	1

Ranking of Feeder Schools by Actual Enrollment		Suffolk	Ranking of Feeder Schools Based on Analysis	
School	Rank of Sums		School	Rank of Sums
G	1		G	1
H	2		H	1
I	4		I	3
J	1		J	2
K	3		K	3

# Chapter 4: Findings

- Nassau – there exists an almost inverse correlation between the current enrollment from Feeder Schools and the Feeder Schools that have the characteristics that the High School is seeking to attract.
- Suffolk – there exists an almost direct correlation between the current enrollment from Feeder Schools and the Feeder Schools that have the characteristics that the High School is seeking to attract.

# Chapter 5: Recommendations

- **First Step Nassau High School:** Redirect the current marketing plan towards the Feeder Schools that have the characteristics that the High School wishes to attract.
- **First Step Suffolk High School:** Continue to market to attract students from the current Feeder Schools, which have the characteristics which the High School is seeking to attract.