

# MSBO ANNUAL CONFERENCE

## J17 - ENROLLMENT PROJECTIONS

By: Kevin Kolb

Gratiot-Isabella RESD

# Enrollment Projections

---

How do you project enrollment?

- ❑ Graduating Seniors Vs. Incoming Kindergarteners
- ❑ In the past few years we have been losing X number of students

# Enrollment Projections

---

Everyone should prepare formal enrollment projections:

- ❑ Budget Accuracy
- ❑ Negotiations
- ❑ Early Warning

# Enrollment Projections



**Are formal projections accurate?**

# Enrollment Projections

---

How do you increase accuracy of your projections?

- ❑ Understand how it is calculated.
- ❑ Select the best method.
- ❑ Know the strengths of the model
- ❑ Know the weaknesses of the model.

# How Calculated - Kindergarten

---

Projecting kindergarten enrollment is based upon birth rates in the county.

- ❑ Child born today enters school in 5 years.

# How Calculated – Kindergarten

<b>Historical Data</b>						
	10/11	11/12	12/13	13/14	14/15	15/16
K	71	60	54	59	57	52
		12.93%	11.97%	12.83%	11.68%	12.47%

  

<b>Live Births</b>						
Year	2005	2006	2007	2008	2009	2010
Number	520	464	451	460	488	417

# How Calculated – Grades 1 - 12



Projecting grades 1 thru 12 enrollment is based upon students moving up a grade level.



# How Calculated – Grades 1 - 12

Historical Data						
	10/11	11/12	12/13	13/14	14/15	15/16
K	71	60	54	59	57	52
		12.93%	11.97%	12.83%	11.68%	12.47%
1	58	59	56	40	55	44
		83.10%	93.33%	74.07%	93.22%	77.19%
2	51	47	62	57	47	47
		81.03%	105.08%	101.79%	117.50%	85.45%
3	72	43	42	58	58	48
		84.31%	89.36%	93.55%	101.75%	102.13%

# How Calculated – Method 1

Historical Data							Method 1				
Weighting	20%	20%	20%	20%	20%						
	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21
K	71	60	54	59	57	52	55	51	49	50	49
		12.93%	11.97%	12.83%	11.68%	12.47%	12.38%	12.38%	12.38%	12.38%	12.38%
1	58	59	56	40	55	44	44	46	43	41	42
		83.10%	93.33%	74.07%	93.22%	77.19%					
2	51	47	62	57	47	47	43	43	45	42	40
		81.03%	105.08%	101.79%	117.50%	85.45%					
3	72	43	42	58	58	48	44	41	41	42	40
		84.31%	89.36%	93.55%	101.75%	102.13%					
Live Births											
Year	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Number	520	464	451	460	488	417	447	409	394	407	394

# How Calculated – Method 1

Historical Data							Method 1				
Weighting	20%	20%	20%	20%	20%						
	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21
K	71	60	54	59	57	52	55	51	49	50	49
		12.93%	11.97%	12.83%	11.68%	12.47%					
1	58	59	56	40	55	44	44	46	43	41	42
		83.10%	93.33%	74.07%	93.22%	77.19%	84.18%	84.18%	84.18%	84.18%	84.18%
2	51	47	62	57	47	47	43	43	45	42	40
		81.03%	105.08%	101.79%	117.50%	85.45%					
3	72	43	42	58	58	48	44	41	41	42	40
		84.31%	89.36%	93.55%	101.75%	102.13%					
Live Births											
Year	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Number	520	464	451	460	488	417	447	409	394	407	394

# How Calculated – Method 2

Historical Data							Method 2				
Weighting		0%	0%	0%	0%	100%					
	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21
K	71	60	54	59	57	52	56	51	49	51	49
		12.93%	11.97%	12.83%	11.68%	12.47%	12.47%	12.47%	12.47%	12.47%	12.47%
1	58	59	56	40	55	44	40	43	39	38	39
		83.10%	93.33%	74.07%	93.22%	77.19%					
2	51	47	62	57	47	47	38	34	37	33	32
		81.03%	105.08%	101.79%	117.50%	85.45%					
3	72	43	42	58	58	48	48	39	35	38	34
		84.31%	89.36%	93.55%	101.75%	102.13%					
Live Births											
Year	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Number	520	464	451	460	488	417	447	409	394	407	394

# How Calculated – Method 2

Historical Data							Method 2				
Weighting		0%	0%	0%	0%	100%					
	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21
K	71	60	54	59	57	52	56	51	49	51	49
		12.93%	11.97%	12.83%	11.68%	12.47%					
1	58	59	56	40	55	44	40	43	39	38	39
		83.10%	93.33%	74.07%	93.22%	77.19%	77.19%	77.19%	77.19%	77.19%	77.19%
2	51	47	62	57	47	47	38	34	37	33	32
		81.03%	105.08%	101.79%	117.50%	85.45%					
3	72	43	42	58	58	48	48	39	35	38	34
		84.31%	89.36%	93.55%	101.75%	102.13%					
Live Births											
Year	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Number	520	464	451	460	488	417	447	409	394	407	394

# How Calculated – Method 3

Historical Data							Method 3				
Weighting	10%	10%	10%	10%	60%						
	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21
K	71	60	54	59	57	52	56	51	49	51	49
		12.93%	11.97%	12.83%	11.68%	12.47%	12.42%	12.42%	12.42%	12.42%	12.42%
1	58	59	56	40	55	44	42	45	41	40	41
		83.10%	93.33%	74.07%	93.22%	77.19%					
2	51	47	62	57	47	47	40	39	41	38	37
		81.03%	105.08%	101.79%	117.50%	85.45%					
3	72	43	42	58	58	48	46	39	38	40	37
		84.31%	89.36%	93.55%	101.75%	102.13%					
Live Births											
Year	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Number	520	464	451	460	488	417	447	409	394	407	394

# How Calculated – Method 3

Historical Data							Method 3				
Weighting	10%	10%	10%	10%	60%						
	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21
K	71	60	54	59	57	52	56	51	49	51	49
		12.93%	11.97%	12.83%	11.68%	12.47%	12.42%	12.42%	12.42%	12.42%	12.42%
1	58	59	56	40	55	44	42	45	41	40	41
		83.10%	93.33%	74.07%	93.22%	77.19%	80.69%	80.69%	80.69%	80.69%	80.69%
2	51	47	62	57	47	47	40	39	41	38	37
		81.03%	105.08%	101.79%	117.50%	85.45%					
3	72	43	42	58	58	48	46	39	38	40	37
		84.31%	89.36%	93.55%	101.75%	102.13%					
Live Births											
Year	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Number	520	464	451	460	488	417	447	409	394	407	394

# Strengths

---

This model does a good job capturing:

- ❖ Private or Charter School students feeding into your district.
- ❖ High School drop outs
- ❖ Student Retention
- ❖ Elementary students can be very transient



# Weaknesses

Enrollment projections have some real limitations when there are anomalies in the data:

- ❖ Cancelling Middle School Sports
- ❖ Charter/Private school opens/closes
- ❖ Improve buildings through a bond issue.
- ❖ Large employer opens/closes business

# Anomalies

---

- You should keep notes on years in which an anomaly occurs so you can consider its impact on the enrollment projection.
- Use one of the three methods that isn't overly weighted on a year in which an anomaly occurred.

# Innovation – My Model

- Method 4 allows you to enter the percentage weighting for each year.

Historical Data							Method 4				
Weighting	25%	0%	25%	25%	25%						
	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21
K	71	60	54	59	57	52	56	51	49	51	49
		12.93%	11.97%	12.83%	11.68%	12.47%					
1	58	59	56	40	55	44	43	46	42	40	42
		83.10%	93.33%	74.07%	93.22%	77.19%					
2	51	47	62	57	47	47	42	41	44	41	39
		81.03%	105.08%	101.79%	117.50%	85.45%					
3	72	43	42	58	58	48	45	40	39	42	39
		84.31%	89.36%	93.55%	101.75%	102.13%					
Live Births											
Year	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Number	520	464	451	460	488	417	447	409	394	407	394

# My Model

- Spread Sheet
- Three Tabs
- Tab 1 – Data Input
- Tab 2 – Track Live Births
- Tab 3 – Enrollment Projection (5 pages when printed)
- Each Tab Has Instructions

# My Model

Historical Data						
	10/11	11/12	12/13	13/14	14/15	15/16
K	71	60	54	59	57	52
		12.93%	11.97%	12.83%	11.68%	12.47%
1	58	59	56	40	55	44
		83.10%	93.33%	74.07%	93.22%	77.19%
2	51	47	62	57	47	47
		81.03%	105.08%	101.79%	117.50%	85.45%
3	72	43	42	58	58	48
		84.31%	89.36%	93.55%	101.75%	102.13%
4	68	68	45	41	62	56
		94.44%	104.65%	97.62%	106.90%	96.55%

# Enrollment Projection Service Providers

- Middle Cities (517)347-0292  
[www.middlecities.org](http://www.middlecities.org)
- Stanfred Consultants (517)347-4928
- Plante & Moran CRESA (248)352-2500  
[www.plantemoran.com/pmcreesa](http://www.plantemoran.com/pmcreesa)
- Skanska USA (248)737-5800  
[www.skanska.com](http://www.skanska.com)

# Questions?



# Contact Information

---

Kevin Kolb

Gratiot-Isabella RESD

(989)875-5101

kkolb@giresd.net