



BREVARD COUNTY PUBLIC SCHOOLS

Estimate of Shuttle Program Termination Impact

School Capacity / Student Enrollment

School Information			School Year 2012 - 2013				Shuttle Program Shutdown Impact		
School	Type	2008-09 SAP Membership Forecast for 2012-13	Permanent Student Stations			Potential Membership Change	Percent 2012-13 Membership	Percent 2012-13 Capacity Utilization	
			2012-13 Student Stations	Utilization Factor (Note 3)	Factored Capacity (Note 4)				Capacity in Use (Note 5)
Allen	Elementary	721	634	100%	634	114%	(6)	-1%	113%
Andersen	Elementary	738	800	100%	800	92%	(24)	-3%	89%
Apollo	Elementary	700	910	100%	910	77%	(61)	-9%	70%
Atlantis	Elementary	517	714	100%	714	72%	(27)	-5%	69%
Audubon	Elementary	532	754	100%	754	71%	(56)	-11%	63%
Cambridge	Elementary	514	627	100%	627	82%	(6)	-1%	81%
Cape View	Elementary	412	591	100%	591	70%	(47)	-11%	62%
Carroll	Elementary	732	762	100%	762	96%	(94)	-13%	84%
Challenger 7	Elementary	507	578	100%	578	88%	(18)	-4%	85%
Columbia	Elementary	422	707	100%	707	60%			60%
Coquina	Elementary	424	593	100%	593	72%	(39)	-9%	65%
Creel	Elementary	755	1,148	100%	1,148	66%	(6)	-1%	65%
Croton	Elementary	574	732	100%	732	78%	(4)	-1%	78%
Discovery	Elementary	734	848	100%	848	87%	(1)		86%
Endeavour	Elementary	589	898	100%	898	66%	(6)	-1%	65%
Enterprise	Elementary	761	714	100%	714	107%	(33)	-4%	102%
Fairglen	Elementary	617	764	100%	764	81%	(25)	-4%	77%
Freedom 7	Elementary	418	453	100%	453	92%	(30)	-7%	86%
Gardendale	Elementary	364	703	100%	703	52%	(43)	-12%	46%
Gemini	Elementary	492	689	100%	689	71%	(1)		71%
Golfview	Elementary	646	707	100%	707	91%	(21)	-3%	88%
Harbor City	Elementary	491	465	100%	465	106%	(2)		105%
Holland	Elementary	432	624	100%	624	69%	(5)	-1%	68%
Imperial Estates	Elementary	740	729	100%	729	102%	(60)	-8%	93%
Indialantic	Elementary	716	732	100%	732	98%	(5)	-1%	97%
Jupiter	Elementary	703	810	100%	810	87%	(1)		87%
Lockmar	Elementary	782	910	100%	910	86%			86%
Longleaf	Elementary	741	772	100%	772	96%	(12)	-2%	94%
Manatee	Elementary	755	880	100%	880	86%	(29)	-4%	83%
McAuliffe	Elementary	658	772	100%	772	85%	(1)		85%
Meadowlane	Elementary	762	842	100%	842	90%	(2)		90%
Meadowlane Interm	Elementary	635	908	100%	908	70%	(1)		70%
Mila	Elementary	460	817	100%	817	56%	(36)	-8%	52%



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Mims	Elementary	444	707	100%	707	63%	(27)	-6%	59%
Oak Park	Elementary	710	910	100%	910	78%	(50)	-7%	73%
Ocean Breeze	Elementary	564	533	100%	533	106%	(8)	-1%	104%
Palm Bay	Elementary	625	870	100%	870	72%	(1)		72%
Pinewood	Elementary	449	505	100%	505	89%	(17)	-4%	86%
Port Malabar	Elementary	669	790	100%	790	85%			85%
Quest	Elementary	1,107	910	100%	910	122%	(19)	-2%	120%
Riverview	Elementary	480	552	100%	552	87%	(41)	-9%	80%
Riviera	Elementary	510	707	100%	707	72%			72%
Roosevelt	Elementary	428	624	100%	624	69%	(34)	-8%	63%
Sabal	Elementary	598	719	100%	719	83%	(6)	-1%	82%
Saturn	Elementary	794	848	100%	848	94%	(24)	-3%	91%
Sea Park	Elementary	315	475	100%	475	66%	(3)	-1%	66%
Sherwood	Elementary	530	609	100%	609	87%	(5)	-1%	86%
South Lake	Elementary	492	533	100%	533	92%	(30)	-6%	87%
Stevenson	Elementary	434	573	100%	573	76%	(32)	-7%	70%
Suntree	Elementary	697	714	100%	714	98%	(14)	-2%	96%
Sunrise	Elementary	896	895	100%	895	100%			100%
Surfside	Elementary	331	475	100%	475	70%	(5)	-2%	69%
Tropical	Elementary	646	910	100%	910	71%	(68)	-11%	64%
Turner	Elementary	809	790	100%	790	102%			102%
University Park	Elementary	540	697	100%	697	77%	(1)		77%
West Melbourne	Elementary	414	551	100%	551	75%			75%
Westside	Elementary	745	835	100%	835	89%	(1)		89%
Williams	Elementary	784	639	100%	639	123%	(23)	-3%	119%
Elementary School Totals		35,055	41,958		41,958	84%	(1,111)	-3%	81%



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			2012-13 Student Stations	Utilization Factor (Note 3)	Factored Capacity (Note 4)				Capacity in Use (Note 5)
Central	Middle	1,124	1,693	90%	1,524	74%	(2)	74%	
Clearlake	Middle	390	781	90%	703	55%	(13)	-3%	
DeLaura	Middle	623	1,024	90%	922	68%	(11)	-2%	
Hoover	Middle	461	726	90%	653	71%	(4)	-1%	
Jackson	Middle	697	723	90%	651	107%	(58)	-8%	
Jefferson	Middle	544	911	90%	820	66%	(72)	-13%	
Johnson	Middle	818	1,183	90%	1,065	77%	(10)	-1%	
Kennedy	Middle	707	748	90%	673	105%	(21)	-3%	
Madison	Middle	600	824	90%	742	81%	(38)	-6%	
McNair	Middle	435	667	90%	600	73%	(16)	-4%	
Southwest	Middle	1,689	1,298	90%	1,168	145%		145%	
Stone	Middle	619	1,125	90%	1,013	61%		61%	
Middle School Totals		8,707	11,703		10,534	83%	(245)	-3%	80%
Cocoa Beach	Jr/Sr High	1,378	1,279	90%	1,151	120%	(135)	-10%	
Edgewood	Jr/Sr High	950	1,057	90%	951	100%	(74)	-8%	
Space Coast	Jr/Sr High	2,017	1,906	90%	1,715	118%	(79)	-4%	
West Shore	Jr/Sr High	955	1,148	90%	1,033	92%	(7)	-1%	
Jr/Sr High School Totals		5,300	5,390		4,850	109%	(295)	-6%	103%
Astronaut	High	1,158	1,517	95%	1,441	80%	(79)	-7%	
Bayside	High	2,125	2,380	95%	2,261	94%	(2)		
Cocoa	High	1,020	1,763	95%	1,675	61%	(30)	-3%	
Eau Gallie	High	1,567	1,997	95%	1,897	83%	(21)	-1%	
Melbourne	High	1,648	2,544	95%	2,417	68%	(7)		
Merritt Island	High	2,060	1,898	95%	1,803	114%	(163)	-8%	
Palm Bay	High	1,730	2,571	95%	2,442	71%	(3)		
Rockledge	High	1,213	1,676	95%	1,592	76%	(51)	-4%	
Satellite	High	1,051	1,530	95%	1,454	72%	(23)	-2%	
Titusville	High	1,392	2,013	95%	1,912	73%	(128)	-9%	
Viera	High	1,912	2,259	95%	2,146	89%	(29)	-2%	
"CCC"	High		2,333	95%	2,216	0%			
High School Totals		16,876	24,481		21,040	80%	(536)	-3%	78%
School District Group Totals	Elementary	35,055	41,958		41,958	84%	(1,111)	-3%	81%
	Middle	8,707	11,703		10,534	83%	(245)	-3%	80%
	Jr/Sr High	5,300	5,390		4,850	109%	(295)	-6%	103%
	High	16,876	24,481		23,256	73%	(536)	-3%	70%
School District Grand Totals		65,938	83,532		80,598	82%	(2,187)	-3%	79%

Notes



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<p>Note 1: Actual figures for 2007-08 Student Membership are as of 10/12/2007.</p> <p>Note 2: Permanent student stations for 2007-08 are based on the information contained in the FDOE Florida Inventory of School Houses (FISH) database on 10/22/2007 including projects currently under construction in 2007-08 and scheduled for completion for 2008-09.</p> <p>Note 3: Utilization Factors are determined by the state DOE: Elementary: 100%; Middle and Jr/Sr High: 90%; High Schools: 95%.</p> <p>Note 4: Permanent Factored Capacity is calculated by multiplying Satisfactory Permanent Student Stations by the Utilization Factor.</p> <p>Note 5: Capacity in Use is calculated by dividing the Student Membership by Factored Capacity.</p>									

Methodology and Assumptions

The data used is two years old. More current data would change the numbers but probably not significantly.
The model will be updated when time allows.

In 2007 the Florida Today published an article that showed the percentage distribution of the shuttle workforce by zip code. The percentage of students attending every school was determined from the student addresses. NASA has determined that there are 1.33 jobs in the local economy for every direct and contract NASA employee. The most common and conservative estimate of the direct and contract jobs that will be lost is 3,500. The 1.33 multiplier would mean that approximately 4,655 additional jobs would be lost in the local economy. In round figures that would amount to a total loss of 8,000 jobs in Brevard due to the Shuttle program termination. If there were no dual income families affected, then 8,000 jobs would be 8,000 households. Our student generation rate is .31 students per household. The number of students lost from 8,000 households would then amount to approximately 2,500. Those losses were distributed by zip code from the Florida Today figures. The losses by zip code were then distributed by school based on the percentage of students with addresses in each zip code.

Issues:

The Florida Today data did not add to 100%; the percentages were adjusted so that they did. NASA should have better data. The student address percentages were based on 2007 addresses, they could be updated but there wouldn't be much difference. The NASA figure of 1.33 is still probably a good number but it could also be updated. The job loss estimate of 3,500 can be changed or calculations could be done for a range. The assumption that no dual income families would be affected is false. The total number of households and therefore students lost would be reduced if some dual income families were assumed. The student generation rate of .31 is probably unrealistically high given the decline in student population. Another factor lowering the generation rate would be the number of NASA employees who would be retiring and have no children.