

Fall Enrollment and Census Projection Using Survival Ratios

(NOTE: Survival Ratio is based on the 1234 Cohort Weighting Formula) Historical November 1 enrollment											Cohort length would have estimated:						
	11-12	12-13	13-14	14-15	15-16	16-17	17-18 Projection		17-18 Actual	Growth/ (decline) from prior year	variance from projections	6 yrs	5 yrs	4 yrs	3 yrs	2 yrs	1 yr
Births*	16,780	16,848	16,566	16,334	15,955	15,943			16,345								
Survival Ratio	9.6%	9.6%	10.2%	9.8%	9.7%	9.5%	Cohort Calc		9.6%	9.4%		9.7%	9.7%	9.7%	9.6%	9.6%	9.5%
							1,565					1,589	1,588	1,584	1,572	1,565	1,556
Kindergarten	1,619	1,615	1,693	1,597	1,545	1,518	Kind Proj	1,565	1,539		(26)						
Survival Ratio	103.7%	102.9%	100.3%	98.4%	96.8%	98.2%	Cohort Calc		98.9%	104.0%		98.9%	98.5%	98.0%	97.8%	97.7%	98.2%
Difference	57	47	5	-27	-51	-28	1,502										
Grade 1	1,589	1,666	1,620	1,666	1,546	1,517	Gr 1 Proj	1,502	1,578	60	76	1,502	1,495	1,488	1,484	1,484	1,490
Survival Ratio	98.4%	99.1%	99.8%	96.6%	97.7%	100.0%	Cohort Calc		98.6%	100.8%		98.6%	98.6%	98.6%	98.7%	99.2%	100.0%
Difference	-27	-15	-4	-55	-39	0	1,496										
Grade 2	1,633	1,574	1,662	1,565	1,627	1,546	Gr 2 Proj	1,496	1,529	12	33	1,496	1,496	1,496	1,497	1,505	1,517
Survival Ratio	98.2%	98.1%	97.4%	96.1%	100.7%	100.4%	Cohort Calc		98.9%	99.9%		98.9%	99.1%	99.3%	99.8%	100.5%	100.4%
Difference		-31	-41	-65	11	6	1,529										
Grade 3	1,541	1,602	1,533	1,597	1,576	1,633	Gr 3 Proj	1,529	1,545	(1)	16	1,529	1,531	1,535	1,542	1,553	1,552
Survival Ratio	97.9%	97.8%	100.1%	98.4%	97.9%	99.2%	Cohort Calc		98.7%	103.2%		98.7%	98.7%	98.8%	98.7%	98.8%	99.2%
Difference	-33	-34	1	-24	-33	-12	1,612										
Grade 4	1,570	1,507	1,603	1,509	1,564	1,564	Gr 4 Proj	1,612	1,685	52	73	1,612	1,612	1,613	1,611	1,613	1,621
Survival Ratio	96.6%	100.5%	99.9%	95.1%	98.6%	98.5%	Cohort Calc		98.2%	101.7%		98.2%	98.2%	98.0%	98.0%	98.6%	98.5%
Difference		8	-1	-78	-21	-23	1,536										
Grade 5	1,578	1,578	1,506	1,525	1,488	1,541	Gr 5 Proj	1,536	1,591	27	55	1,536	1,536	1,533	1,533	1,541	1,541
Survival Ratio	97.3%	98.5%	96.6%	97.3%	95.9%	93.1%	2 YEAR Cohort Calc		94.0%	97.1%		95.8%	95.5%	95.1%	94.7%	94.0%	93.1%
Difference	-42	-24	-54	-40	-63	-103	1,449										
Grade 6	1,533	1,554	1,524	1,466	1,462	1,385	Gr 6 Proj	1,449	1,496	(45)	47	1,476	1,472	1,466	1,460	1,449	1,434
Survival Ratio	98.3%	96.5%	93.3%	92.2%	96.9%	101.8%	MATCH GRADE 7 Cohort Calc		101.3%	103.2%		96.9%	97.1%	97.5%	98.5%	100.1%	101.8%
Difference		-54	-104	-119	-46	26	1,403										
Grade 7	1,512	1,479	1,450	1,405	1,420	1,488	Gr 7 Proj	1,403	1,430	45	27	1,342	1,344	1,351	1,365	1,387	1,410
Survival Ratio	99.3%	98.3%	100.8%	100.7%	102.8%	102.1%	Cohort Calc		101.3%	102.1%		101.3%	101.6%	101.9%	102.1%	102.3%	102.1%
Difference		-25	12	10	39	30	1,508										
Grade 8	1,408	1,487	1,491	1,460	1,444	1,450	Gr 8 Proj	1,508	1,519	31	11	1,508	1,512	1,516	1,519	1,523	1,519
Survival Ratio	99.7%	101.3%	102.8%	100.9%	114.0%	114.7%	2 YEAR Cohort Calc		114.4%	114.2%		108.2%	109.3%	110.5%	112.2%	114.4%	114.7%
Difference		18	42	14	204	212	1,659										
Grade 9	1,492	1,426	1,529	1,505	1,664	1,656	Gr 9 Proj	1,659	1,656	206	(3)	1,569	1,584	1,603	1,626	1,659	1,663
Survival Ratio	98.9%	104.6%	102.8%	103.8%	104.3%	101.1%	Cohort Calc		102.8%	99.5%		102.8%	103.0%	102.8%	102.6%	102.2%	101.1%
Difference		69	40	58	64	19	1,703										
Grade 10	1,521	1,561	1,466	1,587	1,569	1,683	Gr 10 Proj	1,703	1,647	(9)	(56)	1,703	1,705	1,702	1,699	1,692	1,675
Survival Ratio	98.9%	101.7%	99.3%	100.9%	101.0%	100.6%	Cohort Calc		100.6%	98.0%		100.6%	100.7%	100.7%	100.8%	100.8%	100.6%
Difference		26	-11	13	16	10	1,693										
Grade 11	1,549	1,547	1,550	1,479	1,603	1,579	Gr 11 Proj	1,693	1,650	(33)	(43)	1,693	1,694	1,694	1,697	1,696	1,694
Survival Ratio	109.1%	106.5%	108.2%	106.4%	107.6%	104.8%	Cohort Calc		106.6%	106.1%		106.6%	106.4%	106.3%	106.0%	105.7%	104.8%
Difference		101	127	99	112	77	1,683										
Grade 12	1,781	1,650	1,674	1,649	1,591	1,680	Gr 12 Proj	1,683	1,676	97	(7)	1,683	1,680	1,678	1,674	1,669	1,655
average	99.7%	100.5%	100.1%	98.9%	101.2%	101.2%	101.2%		102.5%	37	16	100.5%	100.5%	100.6%	100.8%	101.2%	101.2%

*Kindergarten projections are based on births that occurred 5 years earlier

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Kindergarten	1,619	1,615	1,693	1,597	1,545	1,518	Kind Proj	1,565	1,539	(26)							
Survival Ratio	103.7%	102.9%	100.3%	98.4%	96.8%	98.2%		98.9%	104.0%		98.9%	98.5%	98.0%	97.8%	97.7%	98.2%	
Difference	57	47	5	-27	-51	-28	Cohort Calc	1,502									
Grade 1	1,589	1,666	1,620	1,666	1,546	1,517	Gr 1 Proj	1,502	1,578	60	76	1,502	1,495	1,488	1,484	1,484	1,490
Enrollment growth between K & 1st grade had disappeared and enrollment between K & 1st grade began to decline							Change in Pattern In 17-18 enrollment grew by 60 students between K & 1st grade; largest growth between these grade levels in the 5 year history				(76)	(83)	(90)	(94)	(94)	(88)	None of the weighted cohort survival projection lengths would have calculated 1st grade enrollment as high as actual results
Grade 5	1,578	1,578	1,506	1,525	1,488	1,541	Gr 5 Proj	1,536	1,591	27	55	1,536	1,536	1,533	1,533	1,541	1,541
Survival Ratio	97.3%	98.5%	96.6%	97.3%	95.9%	93.1%	2 YEAR	94.0%	97.1%			95.8%	95.5%	95.1%	94.7%	94.0%	93.1%
Difference	-42	-24	-54	-40	-63	-103	Cohort Calc	1,449									
Grade 6	1,533	1,554	1,524	1,466	1,462	1,385	Gr 6 Proj	1,449	1,496	(45)	47	1,476	1,472	1,466	1,460	1,449	1,434
Enrollment decline between 5th & 6th grade had been growing larger							Change in Pattern In 17-18 enrollment declined by only 45 students between 5th & 6th grade				(20)	(24)	(30)	(36)	(47)	(62)	None of the weighted cohort survival projection lengths would have calculated 6th grade enrollment as high as actual results
Grade 7	1,512	1,479	1,450	1,405	1,420	1,488	Gr 7 Proj	1,403	1,430	45	27	1,342	1,344	1,351	1,365	1,387	1,410
Survival Ratio	99.3%	98.3%	100.8%	100.7%	102.8%	102.1%		101.3%	102.1%			101.3%	101.6%	101.9%	102.1%	102.3%	102.1%
Difference		-25	12	10	39	30	Cohort Calc	1,508									
Grade 8	1,408	1,487	1,491	1,460	1,444	1,450	Gr 8 Proj	1,508	1,519	31	11	1,508	1,512	1,516	1,519	1,523	1,519
Enrollment had been growing between 7th & 8th grade at fairly similar rates over the past 4 years							Similar Pattern In 17-18 enrollment continued a similar growth between 7th & 8th grade				(11)	(7)	(3)	0	4	0	Most of the weighted cohort survival projection lengths could have closely calculated 8th grade enrollment
Grade 9	1,492	1,426	1,529	1,505	1,664	1,656	Gr 9 Proj	1,659	1,656	206	(3)	1,569	1,584	1,603	1,626	1,659	1,663
Survival Ratio	98.9%	104.6%	102.8%	103.8%	104.3%	101.1%		102.8%	99.5%			102.8%	103.0%	102.8%	102.6%	102.2%	101.1%
Difference		69	40	58	64	19	Cohort Calc	1,703									
Grade 10	1,521	1,561	1,466	1,587	1,569	1,683	Gr 10 Proj	1,703	1,647	(9)	(56)	1,703	1,705	1,702	1,699	1,692	1,675
Enrollment growth between 9th & 10th grade had been fairly steady for the past 5 years with a slight decline in 16-17							Change in Pattern In 17-18 enrollment had a decline by 9 students between 9th & 10th grade				56	58	55	52	45	28	None of the weighted cohort survival projection lengths could have calculated 10th grade enrollment as low as actual results
average	99.7%	100.5%	100.1%	98.9%	101.2%	101.2%		101.2%	102.5%	37	16	100.5%	100.5%	100.6%	100.8%	101.2%	101.2%
On average, year over year enrollment growth between grade levels has remained somewhat steady							Change in Pattern For 17-18, average year over year enrollment growth between grade levels was projected to be 101.2%; actual of 102.5% was higher than any previous year in the 5 year history				None of the weighted cohort survival projection lengths would have calculated average year over year enrollment growth between grade levels as high as actual results						