Averill Manning

From: Sent: To: Subject: Attachments: Averill Manning Wednesday, 4 September 2019 4:02 p.m. Joe Eccleton FW: Cashmere High School Local Demand CHS Local Demand by AOI Sept19.pdf

Kia ora Joe,

Act 1982 Please find attached the information you requested. Please get in touch if you have any questions.

Ngā mihi,

Averill

Averill Manning | Education Adviser | Sector Enablement and Support

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5 9(2)(a) ()TA den out a taurite sis official a taurite sis We shape an education system that delivers equitable and excellent outcomes He mea tārai e mātou te mātauranga kia rangatira ai, kia mana taurite ai õna huanga



Count of State School Students within the Cashmere High School Enrolment Scheme Home Zone at March 2019 (data prepared September 2019)

Within the entire Cashmere High School enrolment scheme home zone area there were 1748 Year 9-15 State Co-ed School students at March 2019. Of these, 1660 (95%) attended Cashmere High School.

Students attending Designated Character, Kura, and Special Schools, as well as students attending Single Sex schools are identified separately in the attached table.

Note that Schools with a high market share (such as Cashmere High School) also carry a large number of "in-zone" students who have moved out of the zone but continue to attend the school. This can result in 15% of a schools in-zone enrolments residing outside the zone.

For this reason, the Cashmere High School zone should be designed to contain no more than 1550 Year 9-15 state co-ed students. This will allow the roll to return to within the Build Capacity over time.

"Grand-parenting" provisions are expected to be included for siblings of current students in any zone reduction, but will delay the return of the roll to within capacity.

Previous work has projected the local secondary age population to increase over the short term, as a large cohort of children progress through primary year levels and into Years 9+. This will increase the number of in-zone enrolments at Cashmere in future years.

There are some areas of residential development within the core part of the Cashmere High School zone. While areas of new residential development have generated a large number of primary age children in most areas of recent residential development, the development areas in the core Cashmere area may be more likely to be occupied by secondary age children.

The table on the following page shows the count of state students within each portion of the zone. Of most interest are the columns "State Co-ed only" and "Cashmere High School"

It is expected /assumed that the same proportion of students will attend Single Sex, Designated Character, Kura, and Special schools in the future, as these schools offer a distinctly different type of education, and these can be discounted from estimates of local demand for Cashmere High School.

Count of State School students by Area, March 2019

Count of St	ate School s	tudents by Area, March 201	.9		AC	N982
Areas defined	are based on t All State	hose used in previous analyses State Students Excluding Designated		Cashmere High		
Area	Students	Character, Kura, Special Schools	State Co-ed only	School	Comment	
A	93	72	70	62	Overlap with Hillmorton High Zone	
В	36	26	24	19	Overlap with Hillmorton High Zone	
н	149	124	116	108	Overlap with Linwood College Zone	
I	112	85	80	68		2 1
J	162	133	120	113		
к	419	352	336	325		
L	269	219	204	197		
M	232	181	173	161		
N	206	171	158	154		
0	263	235	213	209	Residential development underway	
Р	125	119	• 107	102	-	
Q	175	149	140	136		
R	9	8	7	6	Overlap with Hillmorton High Zone	
Grand Total	2250	1874	1748	1660		
Includes	All State school students	State Co-ed and Single Sex school students	State Co-ed school students	Cashmere High School Students		
Excludes	Private School and Integrated School students	Private and Integrated, Designated Character, Kura, Special School students	Private and Integrated, DC, Kura, Special School and Single Sex school students	All other schools' students		

Note: All counts exclude students attending Private or State Integrated Schools. All counts exclude students with an FTE less than 0.5, and exclude International students.

Note: correction made from previous data pack to remove 3 students from the State Co-ed count who do not attend a Co-ed School

Local demand by year level and area of interest (March 2019)

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Local dema	ind by	/ yea	r lev	el ar	nd ar	ea of	inte	rest	(Ma	rch 2	019)			
The school h	as rec	queste	ed fur	ther	data	relati	ng to	local	dem	and b	y yea	ir leve	el.	×iO'
Current loc	al poj Scho	pulat	ion b utho	oy Fu	undir s and	ng Ye I Tyn	ar Le	vel a	and a	area na Int	of int	teres	t (Ma	March 2019): dents and those with an FTE<0.5.
Area	1	2	3	4	5	6	7	8	9	10	1 1000	12	13	

Area	1	2	3	4	5	6	7	8	9	10	11	12	13	Grand Total
Α	20	21	23	20	28	20	31	21	18	23	21	15	20	281
В	10	7	8	8	8	6	11	6	7	9	8	6	2	96
Н	17	23	40	35	33	32	50	46	46	43	40	38	37	480
1	28	44	45	38	32	44	43	29	36	22	25	28	26	440
J	21	37	31	44	34	23	46	49	42	34	26	29	35	451
К	52	77	89	98	85	84	121	89	86	107	90	87	72	1137
L	50	65	67	54	77	62	69	75	52	51	64	65	65	816
М	45	60	62	47	61	65	60	64	68	60	57	50	46	745
N	27	48	44	40	54	45	56	48	44	48	-51	40	40	585
0	33	60	60	52	64	77	66	65	68	82	66	57	87	837
Р	14	27	17	26	35	34	32	32	33	30	36	27	24	367
Q	15	25	34	32	42	39	49	43	42	39	49	35	36	480
R		2		4	2	5	3	4	2	5	2	2	2	33
Grand Total	332	496	520	498	555	536	637	571	544	553	535	479	492	6748

Note that due to the way in which Funding Year Level is allocated, the Year 7 cohort is always higher than the Year 6 cohort the previous year and the Year 8 cohort the next year. This is due to the retention of Year 2 students at contributing (Year 1-6) primary schools. These students are re-assigned Funding Year Level is allocated at a Year 7 students at contributing (Year 1-6) primary schools. Level 7 when they enrol at a Year 7+ provider.

Year 1 rolls are at their lowest point in March, and will increase during the year. Therefore, a low year 1 count at March does not indicate a decline in demand.

The above table shows that the largest cohorts are in Years 5-10 (excluding Y7 as discussed above), with an average of around 550 students per cohort. This has contributed to large Year 9 cohorts at CHS in 2018 and 2019. This increased demand at Year 9 is expected to be sustained for several years, based purely on the number of currently resident students (without factoring in anticipated household growth rates).

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The following	a table	- choi	ue the	0	at of	atata		I ach	and of	dont								
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Current loc	al Co	-ed p	opula	ation	۱ by I	Fund	ing Y	ear l	Leve	and	area	a of i	nter	est (March 20	19):	J		
12 Mar 10 Mar	1							1000			THE REAL PROPERTY OF				5.			
Area A	1 19	2 15	3 19	4	5 21	6 16	7 26	8	9 13	10 16	11 15	12 10	13 16	Grand Total 217				
B	9	15	6	7	8	5	11	5	6	8	15 5	4	16					
Н	13	16	23	26	23	23	30	34	29	25	21	20	21	304				
1	22	33	37	29	23	37	34	24	26	15	11	16	12	319				
<u>)</u>	15	29	25	31	26	21	40	43	35	27	19	17	22	350				
K	44	66 55	80 59	89 41	73 66	73 47	111 56	77 62	69 40	81 33	73 50	62 48	51 33	949 632				
M	37	55	59	37	53	54	46	48	40	41	36	48 28	33 23	554				
N	25	46	38	36	49	44	46	40	28	40	41	28	21	482				
0	29	49	52	45	57	64	51	48	46	51	- 36	33	47	608				
Р	10	22	15	21	29	23	25	24	25	19	30	16	17	276				
Q	13	25	32	27	34	34 4	39	34	34	28	39	22	17	378				
Grand Total	278	1 415	441	3 406			1 516	3 459	1 397	387	1 377	1 305	282	21				
	- Contraction		Contraction of the					-			and the second	1 State State Street		5172				
cohort the next	t year.	This is	due to	the r	etentio	on of Y	l is allo 'ear 7 s	cated, tuden	the Y ts at c	ear 7 c ontribu	cohort Iting (is alw Year 1	ays hi	5172 igher than the Year rimary schools. The	6 cohort th se students	e previou are re-as	s year ai signed F	nd the Yea Funding Yea
Note that due to cohort the next Level 7 when the Coord of the second Coord of the sec	t year. 1 hey enr	This is rol at a	due to Year 7	the r 7+ pro	etentio ovider.	on of Y	'ear 7 s	cated, studer,	l, the Y hts at c	ontribu	cohort Iting (is alw Year 1	ays hi	igher than the Year	6 cohort th	e previou are re-as	s year ai signed F	nd the Yea Funding Ye.

The following table shows the break-down of CHS students by area and Funding Year Level, and the CHS Co-ed market share for each.

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	CHS C	ount l	oy Fun	ding Y	ear lev	/el		CHS M	CHS Market share of Co-ed count								
Area	9	10	11	12	13	Grand Total	Area	9	10	11	12	13	Grand Total				
A	11	13	13	10	15	62	A	85%	81%	87%	100%	94%	89%				
В	4	7	4	3	1	19	В	67%	88%	80%	75%	100%	79%				
Н	25	25	20	20	18	108	Н	86%	100%	95%	100%	86%	93%				
1	22	13	9	16	8	68	1	85%	87%	82%	100%	67%	85%				
J	33	25	19	17	19	113	J	94%	98%	100%	100%	86%	94%				
К	68	79	70	61	47	325	к	99%	98%	96%	98%	92%	97%				
L	36	32	49	48	32	197	L	90%	97%	98%	100%	97%	97%				
М	39	39	33	27	23	161	M	87%	95%	92%	96%	100%	93%				
N	27	40	39	27	21	154	N	96%	100%	95%	96%	100%	97%				
0	45	49	35	33	47	209	0	98%	96%	97%	100%	100%	98%				
Р	24	18	30	13	17	102	R C	96%	95%	100%	81%	100%	95%				
Q	33	28	38	22	15	136	Q	97%	100%	97%	100%	88%	97%				
R	1	3	1		1	6	R	100%	100%	100%	0%	100%	86%				
Grand Total	368	371	360	297	264	1660	Grand Total	93%	96%	95%	97%	94%	95%				

CHS students by area and Funding Year Level at March 2019, and the CHS Co-ed market share for each area.

The CHS Market share is lowest in areas B (79%), (85%), R (86% - note small sample size), A (89%), with H and M at 93%.

Note that at March 2019, 54% of Year A state school students in Area A attended Hillmorton High School. It is unknown if these students will wish to change schools at Year 9. At March 2019, only 18% of Year 8 students in area A attended Hillmorton. This indicates a growing support for Hillmorton High from this area.

Future population growth

Projecting the scale and timing of population growth is challenging. However, data currently available indicates that there is likely to be an increased local demand for secondary education in the short term.

Projection series currently available are population projections from Statistics NZ and household projections from the Christchurch City Council. Each series has its own characteristics, strengths and weaknesses.

CCC Household Projections

- Projections of total household numbers
- No break-down by household type
 - Significantly different student per household ratios across different areas / different housing type.
- Household type may change as intensification / development occurs
- Latest edition provided early 2019
- Available at Meshblock level can be aggregated to approximate each Area of Interest

StatsNZ projections;

- Projections by age (equating to school year levels)
- High, Medium, and Low variants
- Latest issue late 2017

CCC Household Projections

- Incorporate 2013 census data and administrative data after that point
- Available at the Census Area Unit level
 - o Large areas, do not match Areas of Interest

Household projections by area of interest Percentage change from 2019 level Household count estimate 2019-2019-2019-2019-2024 2028 2038 2048 2019 2048 2024 2028 2038 Area 809 824 830 841 845 2% 3% 4% 4% A 438 44% В 378 477 525 545 16% 26% 39% 24% Н 1161 1259 1330 1408 1440 8% 15% 21% 1996 2079 2291 2415 11% 22% 29% I 1876 6% 1379 1522 1807 1905 10% 17% 31% 38% J 1620 3300 3595 3675 10% 15% 18% 3116 3427 6% K 2313 2402 2457 2585 2657 4% 6% 12% 15% 1768 1868 1920 1944 3% 6% 9% 10% 1828 1346 1445 1511 1589 1625 7% 12% 18% 21% 13% 16% 1784 1876 1933 2012 2063 5% 8% 4% 7% 618 631 640 653 664 2% 6% Q 1511 1636 1708 1837 1935 8% 13% 22% 28% 53% R 162 209 248 313 363 29% Grand 22076 6% 10% 17% 21% Total 18221 19366 20128 21376

Every area is projected to experience household growth. The total CHS zone area is projected to experience 6% growth in households by 2024, and 10% growth from the 2019 level by 2028.

Ion Act 1982 State co-ed Year 9-15 students in each area, student per household estimates, and projections assuming a constant s/hh ratio at the 2019 s/hh ratio for each area.

Area	Co-ed 2019	co-ed s/hh	2024	2028	2038	2048
А	70	0.09	71	72	73	73
В	24	0.06	28	30	33	35
Н	116	0.10	126	133	141	144
1	80	0.04	85	89	98	103
J	120	0.09	132	141	157	166
К	336	0.11	356	370	388	396
L	204	0.09	212	217	228	234
Μ	173	0.10	179	183	188	190
Ν	158	0.12	170	177	187	191
0	213	0.12	224	231	240	246
Р	107	0.17	109	111	113	115
Q	140	0.09	152	158	170	179
R	7	0.04	9	11	14	16
Total	1748	0.10	1853	1923	2030	2088

The student per household ratio varies significantly between areas. Area P (Westmorland) has the highest s/hh ratio of 0.17 students per household, while areas I and R have the lowest at 0.04 s/hh. Note the small sample size for area R. Area R is an area of future development.

Overall, there is a s/hh ratio of 020 for the entire CHS zone.

Some of the areas with a low s/hh ratio will experience an increase in future years. Areas with higher s/hh ratios may experience a decline in s/hh ratios as large cohorts move on to further education or training, replaced by smaller cohorts. Released un

StatsNZ projections;

	High Varia	ant				Medium	Variant		
CAU	H2019	H2024	H2028	H2038		M2019	M2024	M2028	M2038
Westmorland	155	180	145	145		150	160	140	135
Cashmere West	230	255	225	250		230	245	205	225
Cashmere East	250	255	230	240		245	250	210	205
Rapaki Track	110	95	95	100		110	95	80	75
Opawa	200	195	165	175	U	195	185	155	150
St Martins	250	275	270	305		240	260	255	260
Sydenham	220	285	335	390		205	280	300	315
Barrington South	215	260	235	225		215	250	215	200
Spreydon	170	255	240	250		170	250	225	200
Hoon Hay South	110	145	175	200		110	145	165	175
Somerfield	275	280	270	275		275	265	245	225
Beckenham	190	195	150	150		185	195	135	125
Diamond Harbour	85	85	75	100		85	85	70	75
Governors Bay	65	55	50	60		65	55	45	50

Age 13-17 (Year 9-13) population projections for Census Area Units (CAUs) that are entirely or mostly within the CHS zone (High and Medium Variants);

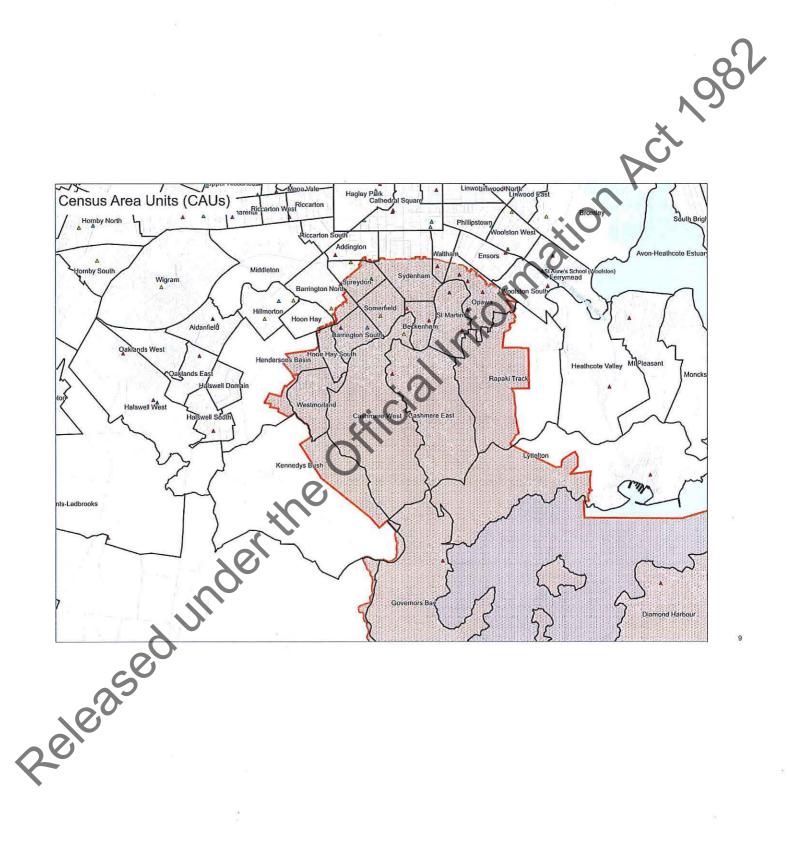
Age 13-17 (Year 9-13) Percentage change from the 2019 level by C	AU
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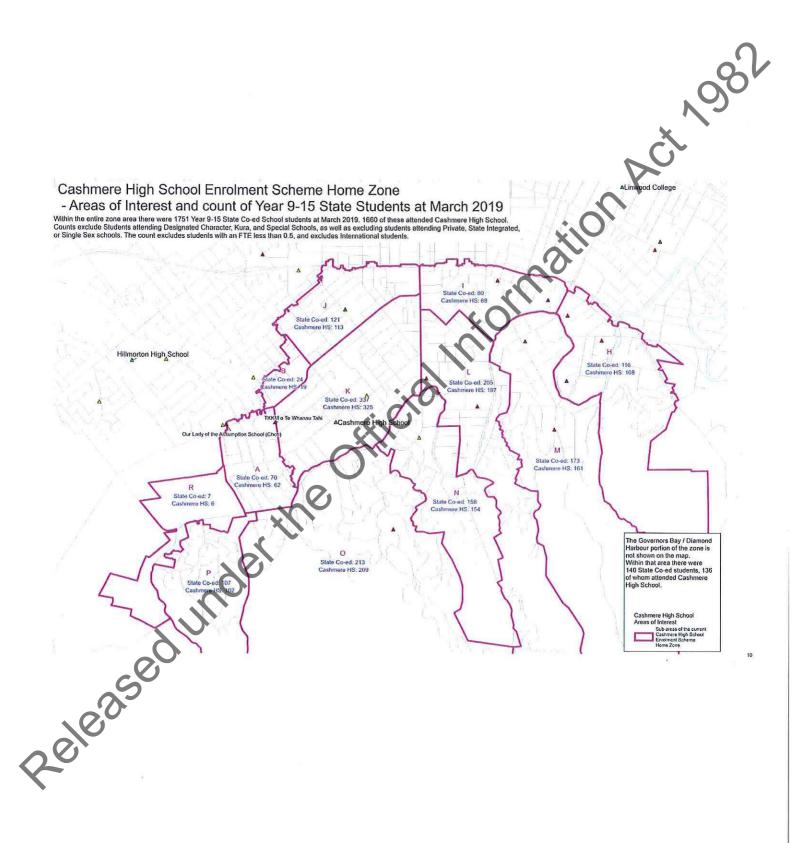
	High Vari	ant			Medium	Variant		//
CAU	H2019	H2024	H2028	H2038	M2019	M2024	M2028	M2038
Westmorland		16%	-6%	-6%		7%	-7%	-10%
Cashmere West		11%	-2%	9%		7%	-11%	-2%
Cashmere East		2%	-8%	-4%		2%	-14%	-16%
Rapaki Track		-14%	-14%	-9%		-14%	-27%	-32%
Opawa		-3%	-18%	-13%		-5%	-21%	-23%
St Martins		10%	8%	22%		8%	6%	8%
Sydenham	20	30%	52%	77%		37%	46%	54%
Barrington South		21%	9%	5%		16%	0%	-7%
Spreydon		50%	41%	47%		47%	32%	18%
Hoon Hay South		32%	59%	82%		32%	50%	59%
Somerfield		2%	-2%	0%		-4%	-11%	-18%
Beckenbam		3%	-21%	-21%		5%	-27%	-32%
Diamond Harbour		0%	-12%	18%		0%	-18%	-12%
Governors Bay		-15%	-23%	-8%		-15%	-31%	-23%
Total		11%	5%	13%		10%	-1%	-3%

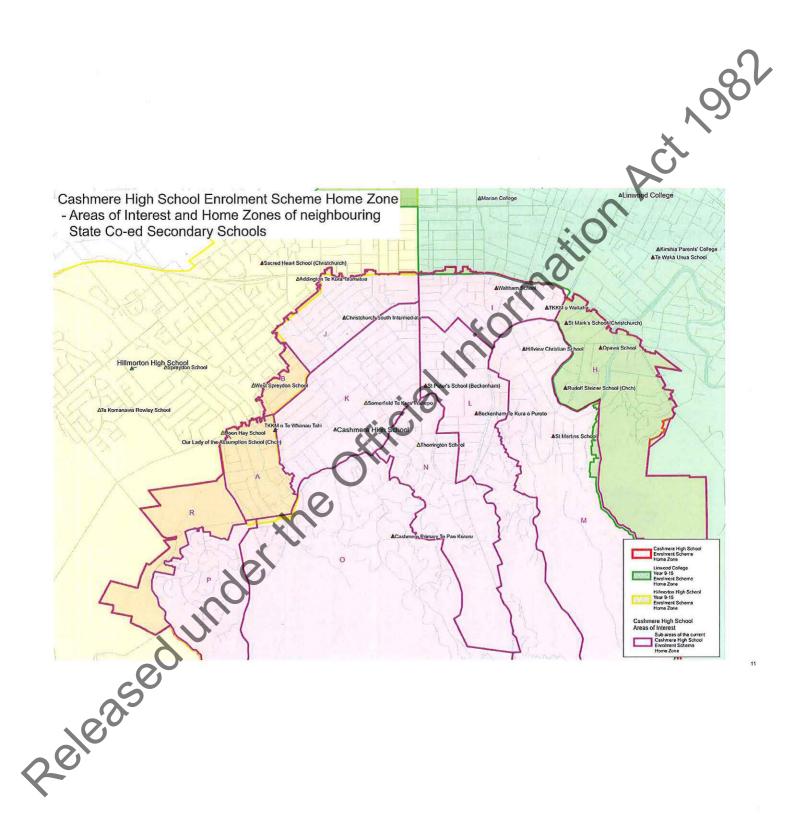
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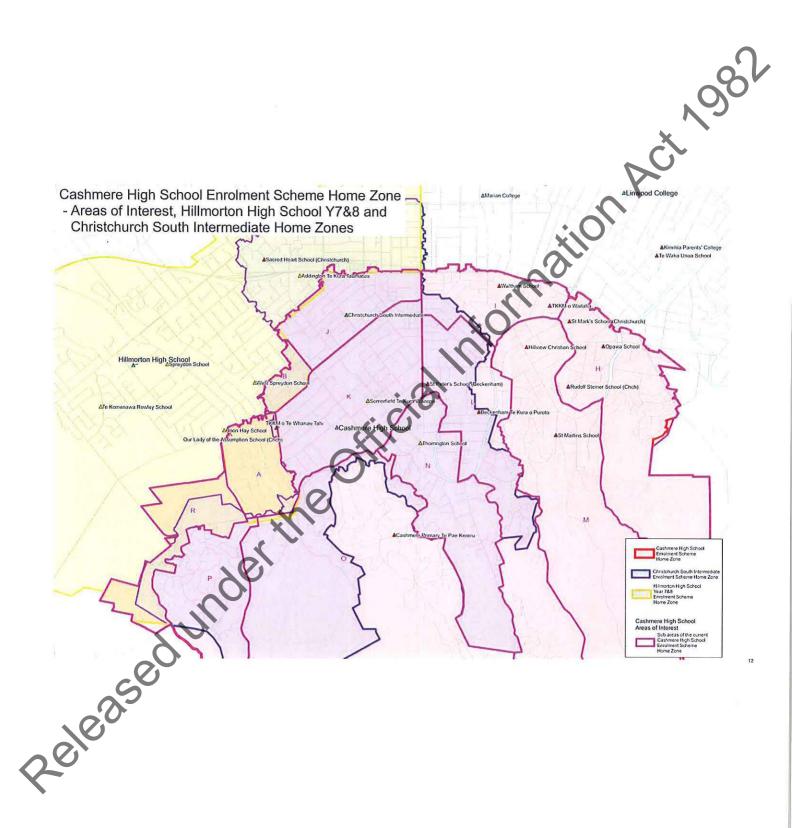
Under the Medium projection variant, the age 13-17 population within the CHS zone is expected to increase by 10% between 2019 and 2024, returning to the 2019 level by 2028, due to the movement of a large population bubble through school age year levels.

Trends vary widely between different CAUs (map of CAUs below).











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