

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

Areas defined are based on those used in previous analyses

Area	All State Students	State Students Excluding Designated Character, Kura, Special Schools	State Co-ed only	Cashmere High School	Comment
A	93	72	70	62	Overlap with Hillmorton High Zone
B	36	26	24	19	Overlap with Hillmorton High Zone
H	149	124	116	108	Overlap with Linwood College Zone
I	112	85	80	68	
J	162	133	120	113	
K	419	352	336	325	
L	269	219	204	197	
M	232	181	173	161	
N	206	171	158	154	
O	263	235	213	209	Residential development underway
P	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

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

The school has requested further data relating to local demand by year level.

Current local population by Funding Year Level and area of interest (March 2019):
Including All School Authorities and Types, but excluding International students and those with an FTE < 0.5.

Area	1	2	3	4	5	6	7	8	9	10	11	12	13	Grand Total
A	20	21	23	20	28	20	31	21	18	23	21	15	20	281
B	10	7	8	8	8	6	11	6	7	9	8	6	2	96
H	17	23	40	35	33	32	50	46	46	43	40	38	37	480
I	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
K	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
M	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
O	33	60	60	52	64	77	66	65	68	82	66	57	87	837
P	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 7 students at contributing (Year 1-6) primary schools. These students are re-assigned Funding Year 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).

The following table shows the count of state co-ed school students only.

Current local Co-ed population by Funding Year Level and area of interest (March 2019):
Including Co-ed schools only, also excluding International students and those with an FTE<0.5.

Area	1	2	3	4	5	6	7	8	9	10	11	12	13	Grand Total
A	19	15	19	14	21	16	26	17	13	16	15	10	16	217
B	9	7	6	7	8	5	11	5	6	8	5	4	1	82
H	13	16	23	26	23	23	30	34	29	25	21	20	21	304
I	22	33	37	29	23	37	34	24	26	15	11	16	12	319
J	15	29	25	31	26	21	40	43	35	27	19	17	22	350
K	44	66	80	89	73	73	111	77	69	81	73	62	51	949
L	42	55	59	41	66	47	56	62	40	33	50	48	33	632
M	37	51	55	37	53	54	46	48	45	41	36	28	23	554
N	25	46	38	36	49	44	46	40	28	40	41	28	21	482
O	29	49	52	45	57	64	51	48	46	51	36	33	47	608
P	10	22	15	21	29	23	25	24	25	19	30	16	17	276
Q	13	25	32	27	34	34	39	34	34	28	39	22	17	378
R		1		3	2	4	1	3	1	3	1	1	1	21
Grand Total	278	415	441	406	464	445	516	459	397	387	377	305	282	5172

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 7 students at contributing (Year 1-6) primary schools. These students are re-assigned Funding Year Level 7 when they enrol at a Year 7+ provider.

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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.

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

Area	CHS Count by Funding Year level						Area	CHS Market share of Co-ed count					
	9	10	11	12	13	Grand Total		9	10	11	12	13	Grand Total
A	11	13	13	10	15	62	A	85%	81%	87%	100%	94%	89%
B	4	7	4	3	1	19	B	67%	88%	80%	75%	100%	79%
H	25	25	20	20	18	108	H	86%	100%	95%	100%	86%	93%
I	22	13	9	16	8	68	I	85%	87%	82%	100%	67%	85%
J	33	25	19	17	19	113	J	94%	93%	100%	100%	86%	94%
K	68	79	70	61	47	325	K	99%	98%	96%	98%	92%	97%
L	36	32	49	48	32	197	L	90%	97%	98%	100%	97%	97%
M	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%
O	45	49	35	33	47	209	O	98%	96%	97%	100%	100%	98%
P	24	18	30	13	17	102	P	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%

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

Note that at March 2019, 54% of Year 7 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.

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

CCC Household Projections

Household projections by area of interest

Area	Household count estimate					Percentage change from 2019 level			
	2019	2024	2028	2038	2048	2019-2024	2019-2028	2019-2038	2019-2048
A	809	824	830	841	845	2%	3%	4%	4%
B	378	438	477	525	545	16%	26%	39%	44%
H	1161	1259	1330	1408	1440	8%	15%	21%	24%
I	1876	1996	2079	2291	2415	6%	11%	22%	29%
J	1379	1522	1620	1807	1905	10%	17%	31%	38%
K	3116	3300	3427	3595	3675	6%	10%	15%	18%
L	2313	2402	2457	2585	2657	4%	6%	12%	15%
M	1768	1828	1868	1920	1944	3%	6%	9%	10%
N	1346	1445	1511	1589	1625	7%	12%	18%	21%
O	1784	1876	1933	2012	2063	5%	8%	13%	16%
P	618	631	640	653	664	2%	4%	6%	7%
Q	1511	1636	1708	1837	1935	8%	13%	22%	28%
R	162	209	248	313	363	29%	53%	93%	124%
Grand Total	18221	19366	20128	21376	22076	6%	10%	17%	21%

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.

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
A	70	0.09	71	72	73	73
B	24	0.06	28	30	33	35
H	116	0.10	126	133	141	144
I	80	0.04	85	89	98	103
J	120	0.09	132	141	157	166
K	336	0.11	356	370	388	396
L	204	0.09	212	217	228	234
M	173	0.10	179	183	188	190
N	158	0.12	170	177	187	191
O	213	0.12	224	231	240	246
P	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 0.10 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.

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StatsNZ projections;

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);

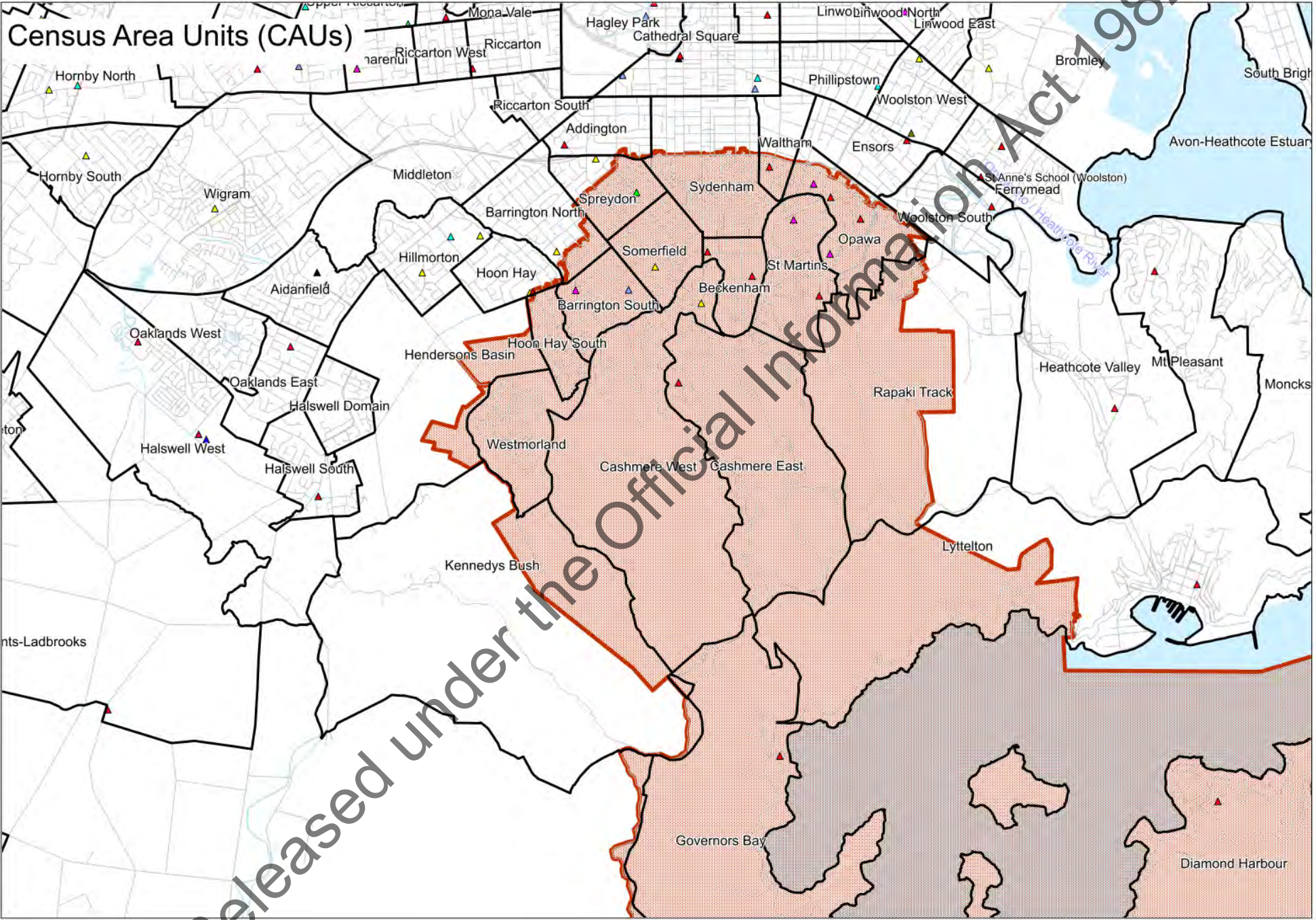
CAU	High Variant				Medium Variant			
	H2019	H2024	H2028	H2038	M2019	M2024	M2028	M2038
Westmorland	155	180	145	145	150	160	140	135
Cashmere West	230	255	225	250	230	245	205	225
Cashmere East	250	255	230	240	245	250	210	205
Rapaki Track	110	95	95	100	110	95	80	75
Opawa	200	195	165	175	195	185	155	150
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) Percentage change from the 2019 level by CAU

CAU	High Variant				Medium Variant			
	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		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%
Beckenham		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%

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.

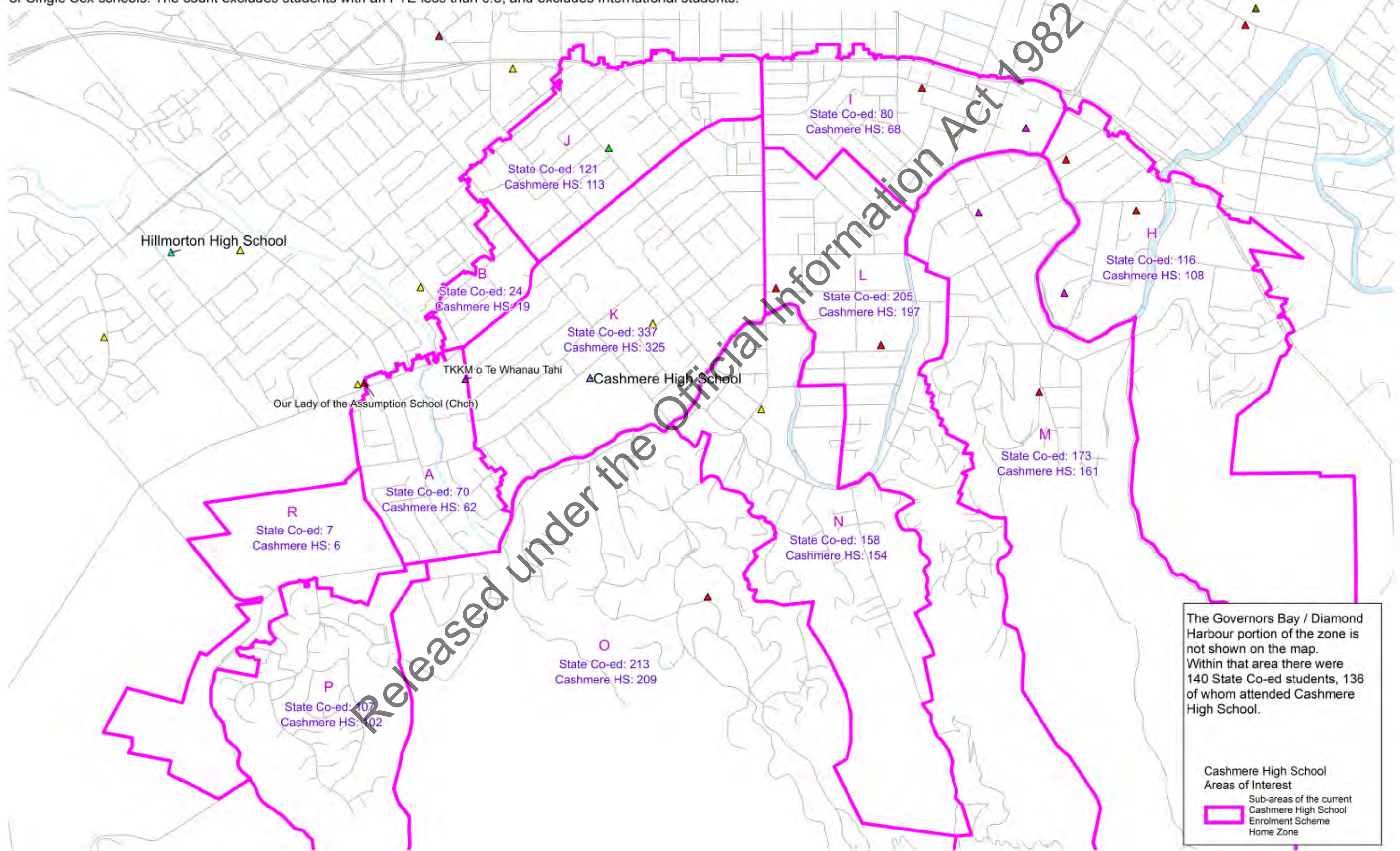
Trends vary widely between different CAUs (map of CAUs below).



Cashmere High School Enrolment Scheme Home Zone

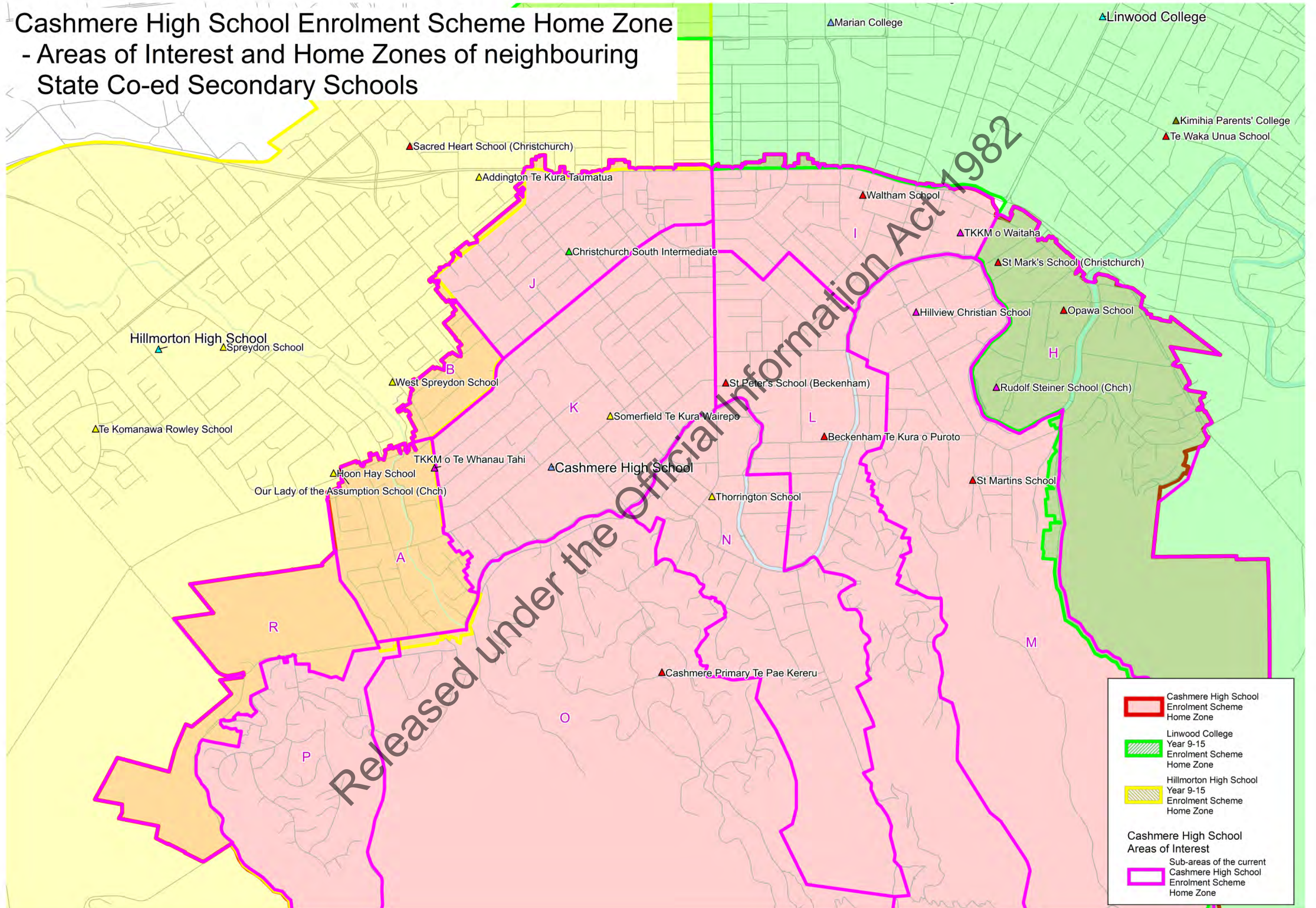
- Areas of Interest and count of Year 9-15 State Students at March 2019

Within the entire zone area there were 1751 Year 9-15 State Co-ed School students at March 2019. 1660 of these attended Cashmere High School. Counts exclude Students attending Designated Character, Kura, and Special Schools, as well as excluding students attending Private, State Integrated, or Single Sex schools. The count excludes students with an FTE less than 0.5, and excludes International students.



Cashmere High School Enrolment Scheme Home Zone

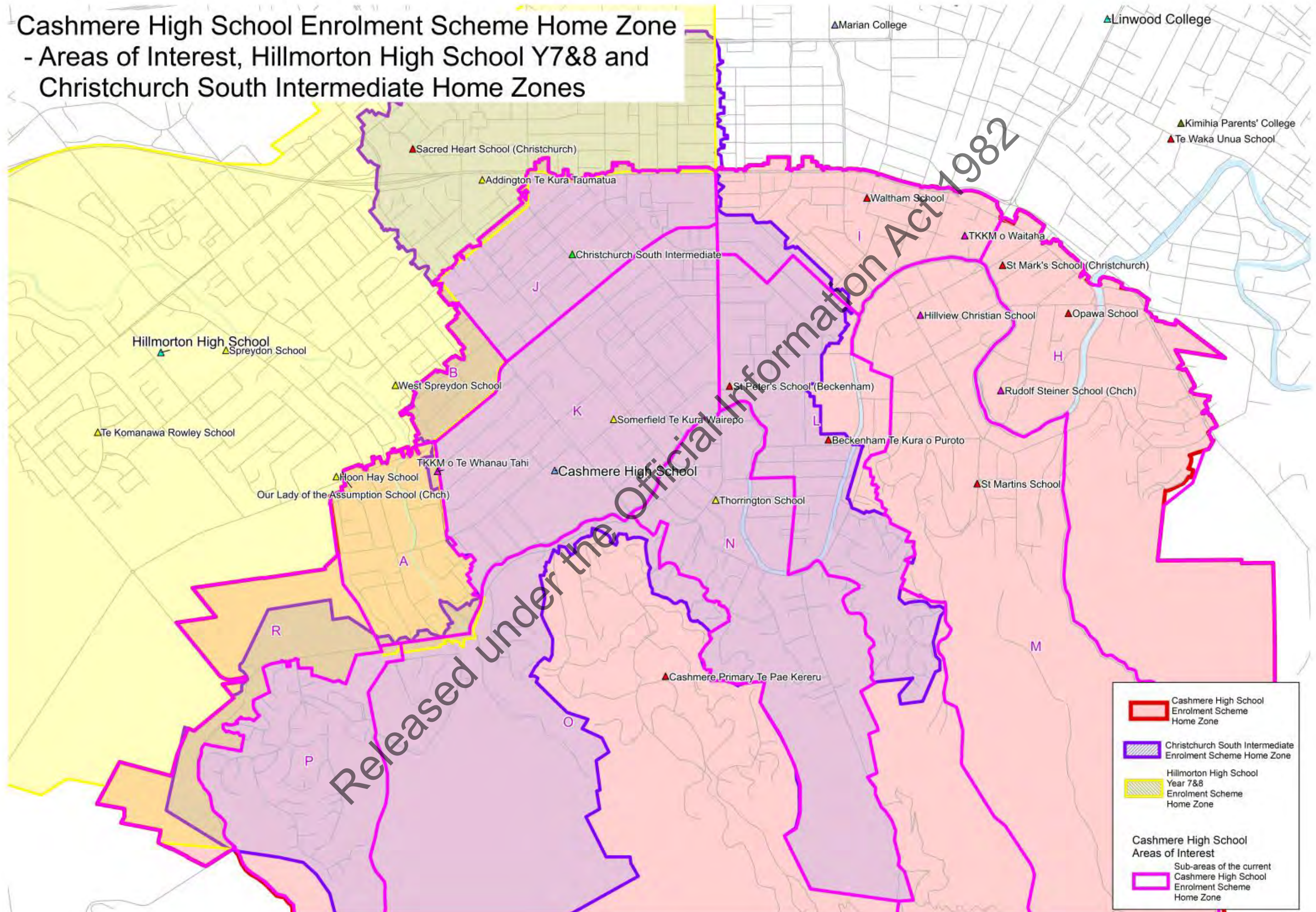
- Areas of Interest and Home Zones of neighbouring State Co-ed Secondary Schools



	Cashmere High School Enrolment Scheme Home Zone
	Linwood College Year 9-15 Enrolment Scheme Home Zone
	Hillmorton High School Year 9-15 Enrolment Scheme Home Zone
	Cashmere High School Areas of Interest
	Sub-areas of the current Cashmere High School Enrolment Scheme Home Zone

Cashmere High School Enrolment Scheme Home Zone

- Areas of Interest, Hillmorton High School Y7&8 and Christchurch South Intermediate Home Zones



	Cashmere High School Enrolment Scheme Home Zone
	Christchurch South Intermediate Enrolment Scheme Home Zone
	Hillmorton High School Year 7&8 Enrolment Scheme Home Zone
Cashmere High School Areas of Interest	
	Sub-areas of the current Cashmere High School Enrolment Scheme Home Zone

Cashmere High School Enrolment Scheme Home Zone - Areas of Interest and local primary school zones

