

**Unique Geographic Factors
SD8
2011-2012**

| | | |
|----------------------------|-----------|---------|
| Small Community | 2,913,078 | |
| - Elementary | 1,451,250 | |
| - Crawford Bay | | 157,500 |
| - Canyon/Lister | | 141,750 |
| - JV Humphries (Kaslo) | | 119,250 |
| - Jewitt (Meadow Creek) | | 157,500 |
| - Blewett | | 157,500 |
| - Redfish | | 157,500 |
| - Salmo | | 87,750 |
| - WE Graham (Slocan) | | 157,500 |
| - Winlaw | | 157,500 |
| - Yahk | | 157,500 |
| - Secondary | 1,102,424 | |
| - Crawford Bay | | 84,697 |
| - Prince Charles (Creston) | | 43,191 |
| - JV Humphries (Kaslo) | | 433,978 |
| - Salmo | | 440,513 |
| - WE Graham (Slocan) | | 100,045 |
| - Grade 11-12 | 359,404 | |
| - Crawford Bay | | 56,425 |
| - Kaslo | | 151,318 |
| - Salmo | | 151,661 |

| | | |
|---|-----------|--|
| Student Location Factor (Transportation & Housing) | 2,394,261 | |
| - Elementary | - | |
| - Nelson | - | |
| - Creston/Erickson | - | |
| - Kaslo | - | |
| - Salmo | - | |
| - Slocan | - | |
| - Crawford Bay | - | |
| - Crescent Valley/South Slocan | - | |
| - Winlaw | - | |
| - Yahk | - | |
| - Canyon/Lister | - | |
| - Meadow Creek | - | |
| - Blewett | - | |
| - Redfish | - | |
| - Secondary | - | |
| - Nelson | - | |
| - Creston/Erickson | - | |
| - Kaslo | - | |
| - Salmo | - | |
| - Slocan | - | |
| - Crawford Bay | - | |

| | |
|--|-------------------------|
| Low Enrolment Factor | 1,106,655 |
| Rural Factor | 733,759 |
| Climate Factor | 192,331 |
| Sparseness Factor | 1,108,690 |
| Supplemental Student Location (Sp Needs Location) | - |
| Total Unique Geographic | <u>8,448,774</u> |

**Unique Geographic Factors
SD8
2012-2013**

| | | |
|----------------------------|-----------|---------|
| Small Community | 3,012,849 | |
| - Elementary | 1,426,500 | |
| - Crawford Bay | | 180,000 |
| - Canyon/Lister | | 108,000 |
| - JV Humphries (Kaslo) | | 136,125 |
| - Jewitt (Meadow Creek) | | 157,500 |
| - Blewett | | 155,250 |
| - Redfish | | 157,500 |
| - Salmo | | 59,625 |
| - WE Graham (Slocan) | | 157,500 |
| - Winlaw | | 157,500 |
| - Yahk | | 157,500 |
| - Secondary | 1,140,092 | |
| - Crawford Bay | | 119,659 |
| - Prince Charles (Creston) | | 83,034 |
| - JV Humphries (Kaslo) | | 451,669 |
| - Salmo | | 390,232 |
| - WE Graham (Slocan) | | 95,498 |
| - Grade 11-12 | 446,257 | |
| - Crawford Bay | | 118,573 |
| - Kaslo | | 155,321 |
| - Salmo | | 172,363 |

| | | |
|--------------------------------|-----------|---------|
| Student Location Factor | 2,304,453 | |
| - Elementary | 1,171,725 | |
| - Nelson | | 21,420 |
| - Creston/Erickson | | 135,405 |
| - Kaslo | | 65,790 |
| - Salmo | | 100,470 |
| - Slocan | | 9,180 |
| - Crawford Bay | | 59,160 |
| - Crescent Valley/South Slocan | | 276,420 |
| - Winlaw | | 81,600 |
| - Yahk | | 18,360 |
| - Canyon/Lister | | 157,080 |
| - Meadow Creek | | 26,520 |
| - Blewett | | 114,240 |
| - Redfish | | 106,080 |
| - Secondary | 1,132,728 | |
| - Nelson | | 701,765 |
| - Creston/Erickson | | 305,899 |
| - Kaslo | | 52,962 |
| - Salmo | | 29,176 |
| - Slocan | | 7,140 |
| - Crawford Bay | | 35,786 |

| | |
|--|-------------------------|
| Low Enrolment Factor | 1,122,887 |
| Rural Factor | 716,915 |
| Climate Factor | 187,916 |
| Sparseness Factor | 1,070,295 |
| Supplemental Student Location (Sp Needs Location) | 165,000 |
| Total Unique Geographic | <u>8,580,315</u> |

**Unique Geographic Factors
SD8
Difference**

| | | |
|----------------------------|----------|----------|
| Small Community | 99,771 | |
| - Elementary | (24,750) | |
| - Crawford Bay | | 22,500 |
| - Canyon/Lister | | (33,750) |
| - JV Humphries (Kaslo) | | 16,875 |
| - Jewitt (Meadow Creek) | | - |
| - Blewett | | (2,250) |
| - Redfish | | - |
| - Salmo | | (28,125) |
| - WE Graham (Slocan) | | - |
| - Winlaw | | - |
| - Yahk | | - |
| - Secondary | 37,668 | |
| - Crawford Bay | | 34,962 |
| - Prince Charles (Creston) | | 39,843 |
| - JV Humphries (Kaslo) | | 17,691 |
| - Salmo | | (50,281) |
| - WE Graham (Slocan) | | (4,547) |
| - Grade 11-12 | 86,853 | |
| - Crawford Bay | | 62,148 |
| - Kaslo | | 4,003 |
| - Salmo | | 20,702 |

| | | |
|--------------------------------|----------|--|
| Student Location Factor | (89,808) | |
| - Elementary | - | |
| - Nelson | - | |
| - Creston/Erickson | - | |
| - Kaslo | - | |
| - Salmo | - | |
| - Slocan | - | |
| - Crawford Bay | - | |
| - Crescent Valley/South Slocan | - | |
| - Winlaw | - | |
| - Yahk | - | |
| - Canyon/Lister | - | |
| - Meadow Creek | - | |
| - Blewett | - | |
| - Redfish | - | |
| - Secondary | - | |
| - Nelson | - | |
| - Creston/Erickson | - | |
| - Kaslo | - | |
| - Salmo | - | |
| - Slocan | - | |
| - Crawford Bay | - | |

| | |
|--|-----------------------|
| Low Enrolment Factor | 16,232 |
| Rural Factor | (16,844) |
| Climate Factor | (4,415) |
| Sparseness Factor | (38,395) |
| Supplemental Student Location (Sp Needs Location) | 165,000 |
| Total Unique Geographic | <u>131,541</u> |

TABLE 6a
SUPPLEMENT FOR UNIQUE GEOGRAPHIC FACTORS –
SMALL COMMUNITY SUPPLEMENT

CHANGED

The Small Community Supplement is provided when a student population within a defined area does not exceed 250 elementary students and/or 635 secondary students. This defined area is the number of FTE students in a single school, or the combined total of FTE students of all schools located within 5 kilometres by the shortest road distance for elementary schools and 25 kilometres by the shortest road distance for secondary schools. Only standard (regular) schools are eligible for this supplement.

The Small Community Supplement is based on the previous year's enrolment. For 2012/13, the Supplement is determined using funded FTE enrolment as at September 30, 2011.

The Supplement is calculated for each "community" by placing the number of FTEs into the applicable formula that appears below for each of the three categories. The totals for each community are then aggregated to provide a total district funding amount for the Small Community Supplement.

1. Elementary Small Community Funding

Eligibility: Communities with 250 or fewer elementary school-age FTE students and that do not qualify for 1a. below.

☒ For each community with 8 or fewer elementary FTEs: \$75,000

For each community with 9 to 110 elementary FTEs: \$157,500

For each community with 110 to 250 elementary FTEs:

\$157,500 – (\$1,125 x (FTE – 110))

☒ **1a. Elementary Small Community Funding – Small Remote Schools**

Eligibility: Communities with 75 or fewer elementary school-age FTE students **AND** at least one of the following:

- The school is located at least 40 kilometres by road from the next nearest elementary school
- The school is located at least 5 kilometres from the next nearest elementary school, which can only be accessed by gravel road, logging road or by water

For each community with 15 or fewer elementary FTEs: \$160,000

For each community with 16 to 75 elementary FTEs: \$180,000

Note: a community can only be eligible for one of 1. or 1a. above.

2. Secondary Small Community Funding

Eligibility: Communities with 635 or fewer secondary school-age FTE students

For each community with 100 or fewer secondary FTEs: FTEs x \$4,547.50

For each community with 100 to 635 secondary FTEs: \$454,750 – (\$850 x (FTEs – 100))

3. Grade 11 and 12 Small Community Funding

Eligibility: Communities eligible for the Secondary Small Community Funding, and with school-age enrolments in Grades 11 and/or 12:

For each community with 15 or fewer Grade 11 & 12 FTEs: \$12,200 per FTE

For each community with more than 15 and less than 215 Grade 11 & 12 FTEs: \$183,000 – ((FTE – 15) x \$915)

TABLE 6b

SUPPLEMENT FOR UNIQUE GEOGRAPHIC FACTORS – LOW ENROLMENT FACTOR

The Low Enrolment Factor is based on the previous year's enrolment. For 2012/13, the Low Enrolment Factor is determined using enrolment as at September 30, 2011.

Eligibility: 2,500 or fewer District school-age FTEs: \$1,375,000

Eligibility: Greater than 2,500, but fewer than 15,000 District school-age FTE:
\$1,375,000 – (\$110 x (FTE – 2,500))

Districts where school-age enrolment exceeds 15,000 FTE are not eligible for this supplement.

TABLE 6c

SUPPLEMENT FOR UNIQUE GEOGRAPHIC FACTORS – RURAL FACTOR

The Rural Factor is calculated using:

- Population of city in which the Board office is located
- Distances from Board office to Vancouver and the nearest regional centre*

$$\frac{(5 - \text{Population Scale}) \times 100 + \text{km to Vancouver} + \text{km to Regional Ctr}}{100} = \text{Rural Index (\%)}$$

For each school district, the Rural Index is multiplied by the previous September's Basic Allocation funding. The Rural Factor is weighted at 20%.

March 2012

Denotes changes

Regional Centres are defined as population centres with a minimum population base of 70,000, according to Statistics Canada, 2006 Census.

* Additional weighting is applied to distances to Vancouver and to the nearest regional centre where there is a water separation that requires ferry travel.

TABLE 6d

SUPPLEMENT FOR UNIQUE GEOGRAPHIC FACTORS – CLIMATE FACTOR

Degree Days of Cooling

The number of Degree Days of Cooling is taken from Environment Canada’s “Canadian Climate Normals, 1971-2000”, and represents the number of degrees that the mean temperature for a given day is **above** 18 degrees Celsius. These Days are averaged by month and year using the 30-year average. Days of Cooling are used to estimate the additional cooling requirements of buildings as a part of the Climate Factor funding.

Degree Days of Heating

The number of Degree Days of Heating is also taken from Environment Canada’s “Canadian Climate Normals, 1971-2000”, and represents the number of degrees that the mean temperature for a given day is **below** 18 degrees Celsius. These Days are averaged by month and year using the 30-year average. Days of Heating are used to estimate the additional heating requirements of buildings as a part of the Climate Factor funding.

The Degree Days of Cooling and the Degree Days of Heating for each district have been added together to reach the **Total Climate Degree Days**. Total Climate Degree Days have been indexed to the provincial minimum of 2,836.3 Climate Days (SD 39 – Vancouver). The Climate Index, therefore, represents the additional heating and cooling days above the provincial minimum (Total Climate Days – Provincial Minimum).

For each district, the Climate Index is multiplied by their previous year’s Basic Allocation funding. Climate Factor funding is weighted at 5%.

The Climate Factor is calculated as follows:

$$\frac{\text{Total Climate Days} - \text{provincial minimum}}{10,000} \times \text{previous year's Basic Allocation} \times 5\%$$

March 2012

Denotes changes

TABLE 6e
SUPPLEMENT FOR UNIQUE GEOGRAPHIC FACTORS – SPARSENESS FACTOR

The Sparseness Index addresses the fact that certain districts have a greater financial burden than others resulting from the separation of schools from the board office. Additional costs arise from increased travel.

Columns 1 to 3 show the total paved, gravel and water distance in kilometres which separate dispersed schools from their board office. A school is eligible for inclusion in the Sparseness Index calculation if that school is more than 40 kilometres from its board office or if it is separated by water. 40 kilometres is known as the “threshold distance”.

The Sparseness Index is calculated as follows:

1. Column 5 is the Total Weighted Distance of dispersed schools from their board office. It is calculated as the sum of paved road distance, gravel road distance weighted by 1.5, and water distance weighted by 7.5. To reflect waiting times for ferries, 150 kilometres is added to the Total Weighted Distance for each dispersed school separated by water (Column 4).
 An additional \$200,000 is provided for each dispersed school separated by water where the distance exceeds 50 kilometres (Column 12).
2. Column 6 indicates the Average Distance of dispersed schools from their board office. It is arrived at by dividing Total Weighted Distance (Column 5) by the number of dispersed schools (Column 11).
3. Column 7 is the Average Distance to Threshold Ratio. It is arrived at by dividing Column 6 from the board office by the threshold distance (40 km).
4. Column 10 is the Dispersed FTE Enrolment (Column 9) as a percentage of total FTE Enrolment (Column 8). Enrolment is all funded school-age FTE as of September 30 of the previous year, excluding Distributed Learning students.
5. The Sparseness Index is derived as follows:
[Average Distance-to-Threshold Ratio (Column 7)]
X [Sparse Enrolment Percentage (Column 10)]
X [Number of Eligible Schools (Column 11) plus Board (taken as 5)]

The product of these factors is then divided by 100 to convert to the percentage known as the Sparseness Index.

For each district, the Sparseness Index is multiplied by their previous year’s Basic Allocation funding. Sparseness Factor funding is weighted at 12%.

TABLE 6f
SUPPLEMENT FOR UNIQUE GEOGRAPHIC FACTORS – STUDENT LOCATION FACTOR

☒ The Student Location Factor provides funding to districts based on standard school enrolment and the school-age population density of communities within that district.

*Forward
"Transportation"
+ housing*

The Student Location Factor is calculated as follows:

1. The community clusters as determined in the Small Community Supplement calculation are used
2. The school-age population density according to the 2006 Census, Statistics Canada is identified for each community cluster
3. The number of school-age FTE enrolled in standard schools from the previous school year is weighted according to the cluster's school-age population density:

| School-Age Population Density | Regional Centre or a District not eligible for Rural Index (1) | | Eligible for Small Community Supplement (2) | Neither (1) nor (2) | Both (1) and (2) |
|-------------------------------|--|-----------|---|---------------------|------------------|
| | Greater or Equal to | Less Than | | | |
| 0 | 18 | 1.5 | 4 | 4 | 4 |
| 18 | 50 | 0.5 | 1 | 1 | 1 |
| 50 | 85 | 0.25 | 1 | 0.5 | 0.5 |
| 85 | 200 | 0.05 | 1 | 0.1 | 0.1 |
| 200 | 1,000 | 0.02 | 0.5 | 0.04 | 0.04 |

4. Exceptions to the above table are applied:
 - a. Where elementary enrolment for a community cluster exceeds the elementary-age population for that community according to the 2006 Census and the community is not a Regional Centre or the district is not eligible for the Rural Factor, the weighting is doubled except where the maximum weighting has already been reached.
 - b. For communities where there is no secondary enrolment, the nearest community with secondary enrolment has been identified, along with all other neighbouring communities without secondary enrolment. In such cases, the weighting for the community with secondary enrolment is modified by the proportional weightings of the non-secondary clusters based on enrolment.
5. For every weighted elementary FTE, \$255 is provided and for every weighted secondary FTE, \$340 is provided.
6. A district base amount of \$50,000 is provided to every district with less than 500 FTE enrolled in standard schools during the previous school year.

TABLE 6g
SUPPLEMENT FOR UNIQUE GEOGRAPHIC FACTORS –
SUPPLEMENTAL STUDENT LOCATION FACTOR

☒ As a supplement to the Student Location Factor, this factor provides \$5,000 for every eligible Level 1 special needs student and \$1,000 for every eligible Level 2 special needs student. Enrolments are as at September of the previous school year.

TABLE 6h
SUPPLEMENT FOR UNIQUE GEOGRAPHIC FACTORS –
STUDENT LOCATION FACTOR TRANSITION

☒ The Student Location Factor Transition provides notification of the changes in funding resulting from the reallocation of the former Supplement for Transportation and Housing into the Supplement for Unique Geographic Factors.

The transition amounts were determined by comparing the combined Student Location Factor and Supplemental Student Location Factor for 2012/13 to the Supplement for Transportation and Housing provided in 2011/12.

Decreases in funding resulting from this formula change are being phased in. In 2012/13, the transition provided is 66.7% of the difference and in 2013/14, the transition provided is 33.3% of the difference. By 2014/15, the replacement formula will be entirely phased in and no transition funding will be provided.

Transition amounts for 2012/13 and 2013/14 are listed for every district on Table 6h.

2012-2013 Small Community Supplement Converted to FTE Vs. Actual Supplements Put in Place

Impact: Small rural schools teacher staffing increases

Impact: Transportation, Custodial, IT and Operations budgets would need to decrease or bussing fee or other revenue increase
\$3,012,849 Total Small Community Supplement Divided by \$94,189 Average 1.0 Teacher FTE Salary = 31.99 FTE Teachers

| SCHOOL | Proposed Small Community Supplement Converted to Teacher FTE | Actual Supplements to Core 12-13 | | | | Difference Small Community vs Actual Supplements |
|----------------------------|--|----------------------------------|--------------|----------------------------|---------------|--|
| | | LIF Teach | LIF EA | Funding Protection - Total | Supplements | |
| ELEMENTARY | | | | | | |
| ARES | - | 0.400 | 0.160 | 0.647 | 1.207 | (1.207) |
| Blewett | 1.648 | | 0.500 | | 0.500 | 1.148 |
| Brent Kennedy | - | | 0.714 | 0.553 | 1.267 | (1.267) |
| CLES | 1.147 | | 0.371 | 0.123 | 0.494 | 0.653 |
| Crawford Bay | 1.911 | 0.375 | | 0.602 | 0.977 | 0.934 |
| Erickson | - | 0.300 | | | 0.300 | (0.300) |
| Hume | - | 0.400 | | 0.300 | 0.700 | (0.700) |
| Jewett | 1.672 | 0.200 | | 0.254 | 0.454 | 1.218 |
| JVH | 1.445 | 0.300 | | 0.200 | 0.500 | 0.945 |
| Redfish | 1.672 | 0.100 | | 0.100 | 0.200 | 1.472 |
| Rosemont | - | 0.250 | | 0.253 | 0.503 | (0.503) |
| Salmo Elementary | 0.633 | 0.200 | | 0.500 | 0.700 | (0.067) |
| South Nelson | - | 0.300 | | | 0.300 | (0.300) |
| WE Graham | 1.672 | | | 0.012 | 0.012 | 1.660 |
| Wildflower | - | 0.100 | | 0.300 | 0.400 | (0.400) |
| Winlaw | 1.672 | 0.100 | | | 0.100 | 1.572 |
| Yank | 1.672 | | | 0.200 | 0.200 | 1.472 |
| SUB-TOTAL SECONDARY | 15.145 | 3.025 | 1.745 | 4.044 | 8.814 | 6.331 |
| Crawford Bay | 2.529 | | | | - | 2.529 |
| DESK | - | | | 0.725 | 0.725 | (0.725) |
| JVH | 6.444 | | | | - | 6.444 |
| Homelinks | - | 0.150 | | | 0.150 | (0.150) |
| LVR | - | | | | - | - |
| Mt Sentinel | - | 0.316 | | 0.319 | 0.635 | (0.635) |
| PCSS | 0.882 | 0.527 | | 0.500 | 1.027 | (0.145) |
| Trafalgar | - | 0.208 | 0.571 | 0.285 | 1.064 | (1.064) |
| Salmo Secondary | 5.973 | 0.200 | | 0.125 | 0.325 | 5.648 |
| WE Graham | 1.014 | 0.100 | | | 0.100 | 0.914 |
| SUB-TOTAL | 16.842 | 1.501 | 0.571 | 1.954 | 4.026 | 12.816 |
| TOTAL | 31.987 | 4.526 | 2.316 | 5.998 | 12.840 | 19.147 |

x \$94,189 \$ 1,803,462