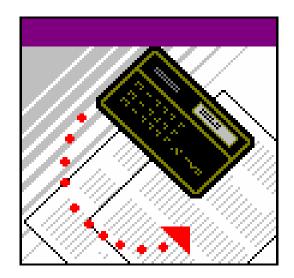
2007/2008 REGIONAL HEALTH AUTHORITY GLOBAL FUNDING

Methodology and Funding Manual

(April 19, 2007)





Print copies of this 2007/2008 Regional Health Authority Global Funding Manual are available from:

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EXECUTIVE SUMMARY

This manual shows how the \$6.2 billion in 2007/2008 Regional Health Authority (RHA) Global Funding was allocated across health region (note: in addition to Global Funding, provincial funding for RHAs also includes some Non-Base funding).

Using Alberta's traditional RHA funding allocation model, the **population funding formula** is the starting point and main driver for distributing funding to RHAs. The formula is used to distribute \$5.1 billion (82 per cent) of total RHA Global Funding. The major objective of population funding is equity - each RHA receives the same population funding rates.

The simplest way to distribute funding on a population basis would be straight per capita funding. However, since different types of people have differing levels of health care needs, the population formula develops funding rates for 136 types of individuals as defined by their age, gender and socio-economic characteristics. These rates (see page 10) were based on observed health care expenditure data from 2005/2006, grossed up to the funding year. The same 136 funding capitation rates are applied to each region's projected population for the funding year to determine the regional allocations (\$5.1 billion). Overall per capita funding varies by region only because of different population mixes - regions with a higher proportion of seniors, for example, get higher overall average per capita funding because the funding rates are the highest for seniors. Variations in funding growth from the previous year is driven primarily by the differential rates of population growth across regions.

Since formula funding is allocated solely according to the population which resides in a region, **import-export adjustments** are made to the formula allocations to compensate for health care services provided to Albertans outside of their home region. The total value of identified import-export activity for 2007/2008 is \$459.2 million, based on observed service patterns from 2005/2006, grossed up to the funding year. However, the summed adjustments over all nine regions is zero, as total imports (positive funding adjustments) equal total exports (negative funding adjustments).

The remainder of RHA Global Funding is comprised of **non-formula funding adjustments** (\$1.1 billion). This is mostly Province Wide Services (\$594 million) and Mental Health (\$291 million) funding. For mental health, a new funding allocation model was implemented for 2007/2008 with a no loss provision for all RHAs.

Each RHA is **guaranteed a minimum 6.0 percent funding increase**, prior to Province Wide Services and Northern Adjustment funding, from previous year comparable funding. This requires funding top-ups totaling \$52 million for East Central, Aspen, Peace Country and Northern Lights, the money for which is re-distributed on a proportional basis from the other five RHAs (negative adjustments).

Finally, selected regions also receive Province Wide Services and Northern adjustment funding.

2007/2008 Regional Health Authority Global Funding Summary

RHA	Comparable 2006/2007 Forecast	Population Formula	Import- Export	Non- Formula Funding	6% Minimum Guarantee Adjustments	Province Wide Services	Northern Adjustment	TOTAL 2007/2008 Global Funding	% Change
R1	270,402	289,852	(16,439)	16,206	(2,994)	0	0	286,626	6.0
R2	152,228	174,811	(20,170)	9,224	(1,733)	0	0	162,132	6.5
R3	2,010,714	1,763,009	56,373	124,504	(20,555)	275,065	0	2,198,396	9.3
R4	481,149	498,979	(59,057)	84,007	(5,540)	0	0	518,390	7.7
R5	195,133	212,596	(37,125)	7,195	14,316	9,850	0	206,833	6.0
R6	2,105,053	1,654,157	192,215	160,167	(21,217)	309,451	0	2,294,774	9.0
R 7	212,497	277,202	(74,807)	13,413	9,438	0	0	225,247	6.0
R 8	196,858	196,445	(23,149)	12,300	23,073	0	8,000	216,669	10.1
R9	76,840	77,637	(17,843)	16,446	5,211	0	58,000	139,450	81.5
Total	5,700,873	5,144,689	0	443,462	0	594,366	66,000	6,248,516	9.6

(\$ thousands)

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2006/2007 Comparable Forecast

The 2006/2007 Comparable Forecast is used as the base for calculating the minimum guaranteed funding increase for qualifying regions, and also the base from which the funding growth rates for 2007/2008 are calculated.

The 2006/2007 Comparable Forecast consists of:

- global funding at April 1, 2006 (\$5,675 million)

- plus mid year funding for: Additional Operating Funding (\$81.0 million) and LPN Salary Settlements (\$31.0 million)

- less adjustments for: Medical Education (\$74.6 million taken out for Calgary and Capital), Northern Alberta Mental Health Forensic Psychiatry (\$8.4 million taken out of Capital), Neurosurgery Physician Payment (\$2 million taken out for Calgary and Capital), and Newborn Metabolic Screening (\$0.7 million taken out of Capital).

Overview

In the past, health care funding in Alberta was directed to specific facilities, agencies or programs, and was largely determined from previous year funding levels. Beginning 1997/98, Alberta adopted a global population-based model for RHA funding distribution to ensure an objective methodology for providing each region with its fair share of the available health dollars, and also to provide regions with better incentive to efficiently provide an optimal mix of health services.

Population funding develops **funding rates for different types of individuals** which are reflective of their relative health care needs, and then applies these rates to each region's population. The capitation rates are re-calculated each year from the latest actual health care expenditures for the different groups of individuals. Thus, a region's funding share is determined by its population size and its population mix (age, gender and socio-economic composition).

The amount of 2007/2008 funding (\$5.1 billion) available for Population Formula distribution was determined as a residual after Alberta Cancer Board funding, Alberta Mental Health Board funding, and RHA Non-Formula funding was taken out of total available Health Authority Global Funding.

2007/2008 Population Formula Funding - Summary

RHA	2007/2008 Projected Population	Net Per Capita Rate* (rounded)	General Population Formula Allocation	PPP Allocation (modified formula)	TOTAL Population Formula Funding
R1	160,966	1,714	276,891,371	12,960,316	289,851,688
R2	106,335	1,576	168,248,858	6,562,191	174,811,049
R3	1,274,796	1,319	1,690,159,715	72,848,857	1,763,008,572
R4	313,835	1,512	476,609,114	22,370,294	498,979,407
R5	114,066	1,794	205,308,809	7,287,622	212,596,431
R6	1,070,650	1,476	1,586,733,661	67,423,729	1,654,157,390
R7	181,619	1,431	261,121,382	16,080,877	277,202,259
R8	146,041	1,262	185,386,738	11,058,689	196,445,427
R9	79,024	887	70,724,302	<u>6,912,469</u>	<u>77,636,771</u>
Total	3,447,333	1,421	4,921,183,949	223,505,045	5,144,688,994

* The same funding capitation rates are applied to each region's population, but the overall **net** per capita rate varies by region because of the different population mix in each region.

Population Formula Funding Methodology (6 steps)

1. Collect RHA Patient Activity Data

Calculation of capitation funding rates requires regional health care expenditures to be assigned to individual demographic groups. The first step in this pursuit is the collection of comprehensive RHA patient activity data. For 2007/2008 funding, 2005/2006 was the most recent year for which full provincial activity data was generally available. Data coverage of regional health services is relatively comprehensive, although a few gaps currently exist such as much of promotion/protection/ prevention (PPP) activity. Because of the limited PPP data, this sector is excluded from the general population formula, with funding allocation determined by a modified population-based formula.

Acute hospital inpatient care - activity data are hospital inpatient separations obtained from the 2005/2006 CIHI Inpatient Morbidity file. All acute care facilities in Alberta report monthly inpatient separations (over 340,000 records annually) to the Canadian Institute for Health Information (CIHI) through a standard set of data elements. CIHI groups the discharges into similar Case Mix Groups (CMGs).

After Alberta Health and Wellness receives Alberta's annual file from CIHI, several edits and adjustments are made before it is used for funding purposes. The adjustments include the standard practice of converting patient Personal Health Numbers (PHNs) to anonymous

scrambled numbers to protect patient identity, and an adjustment for hospital transfers. The data is then re-grouped data. Also, Province Wide Services inpatient activity is flagged and excluded from Global Funding calculations.

Acute ambulatory care - all regions in the province are required to report ambulatory care visits to Alberta Health and Wellness through the Ambulatory Care Classification System (ACCS), which forms the ambulatory care funding activity dataset. The 2005/2006 ACCS database contains nearly seven million records. As for hospital inpatient activity, Province Wide Services (e.g. dialysis) are flagged and excluded from the ACCS funding database.

Long term care - activity data are obtained from the Resident Classification System (RCS): all residents of provincial continuing care facilities and supportive housing are classified once a year ("snapshot") using a standard format. The RCS data reported to Alberta Health and Wellness place a client into one of seven classification categories (A to G) representing increasing acuity levels or resources needed for care. RCS data used for 2007/2008 funding were collected from the Spring 2006 classification involving approximately 15,000 residents.

Home care - activity data are obtained from the Home Care Information System (HCIS): all RHAs report monthly home care data through a standard set of data elements. The data are client specific and include demographic, client classification and service information (self-managed care and six service types - assessment, case co-ordination, direct professional, personal care, home support, indirect services). The activity data used for 2007/2008 funding are the HCIS 2004/05 hours paid. The 2005/06 data was available, but not comprehensive enough, given most RHAs are transitioning to the new MDS-HC system. Services provided under the Children With Complex Health Needs program are identified and excluded because these are funded through Province Wide Services.

Community lab - under population-based funding, expenditures on lab services for hospital patients are bundled into the inpatient and outpatient RHA activity pools. However, funding allocation must also take into account non-hospital or community patient lab tests (mostly ordered from physician offices). 31.6 million community lab data for 2005/2006 were collected from the nine health regions through a special data request. On average, approximately 92.5% of all lab records submitted had a CLPL code.

Health Link - activity data files were collected from Calgary and Capital health regions. The files for 2005/2006 show 283,576 calls for Calgary Health Link, and 404,484 calls for Capital Health Link.

2. <u>Attach Relative Cost Weights</u>

Step two in the population allocation methodology is to convert all of the patient activities collected in step one into an RHA expenditure. To determine expenditure, relative resource weights are first attached to each activity record. The relative values are then weighted in step three.

Acute hospital inpatient care - weighting of activity (CMGs) employs Resource Intensity Weights (RIWs) which CIHI calculates and attaches to each CMG separation on the Morbidity file. The RIWs are derived from Canadian cost records. Since Alberta currently supplies the majority of the costing records used by CIHI.

Acute ambulatory care - resource weights applied to ACCS visits are system-wide ACCS relative values derived from 2004/2005 cost information provided by Calgary and Capital health regions, blended with cost data from the previous year (and top-ups from years before that if needed).

Continuing care - cost weights for the A to G patient classifications were determined several years ago for funding purposes. For 2007/2008 funding, these relative cost weights, with some inflation factor, are used:

Α	-	\$13,134.76
В	-	\$17,116.15
С	-	\$22,235.75
D	-	\$26,179.03
E	-	\$35,570.53
F	-	\$43,052.30
G	-	\$72,017.35

Home care - self-managed care is valued at actual reported costs, while the hours for the six general service types are weighted by the 2003/2004 provincial average cost rates calculated by adding up all provider costs for all regions and dividing by the total number of providers:

Assessment	\$ 42.83
Case Coordination	\$ 40.81
Direct Professional	\$ 39.75
Personal Care	\$ 14.83
Home Support	\$ 14.81
Indirect Services	\$ 36.68

Only the direct provider costs are included in the cost weights. Indirect costs (such as administration, travel costs, management, building depreciation) are not included because these costs are reported in varying degrees across regions and are not case specific.

Community Lab - Health Funding calculated a set of relative values for CLPL codes, based on cost data from Palliser, Capital, Calgary and Aspen. For non-CLPL reported activity, a relative value of one (i.e. the overall average cost) was assigned.

Health Link - Health Link calls are reported on a caller-specific transaction basis and valued on a cost per unit of service for each transaction. The \$2.27 per minute provincial average rate was derived by dividing Calgary and Capital Health's total Health Link operating costs by the total duration of calls. Operating costs are primarily nursing staff who answer the phone lines.

3. <u>Scaling to Pool (Budget) Size</u>

The activity data collected in step one are not entirely comprehensive of all RHA activity nor reflective of volumes in the funding year, while the resource weights in step two are only relative weights within a sector and not reflective of the full actual costs of the services in the funding year. In step three, to compensate for these deficiencies, the expenditure weights (weighted activity from steps one and two) in each sector are scaled by a single factor so that the total summed expenditure equals the total "pool" size (expected expenditure) for that sector in the funding year. This scaling is necessary to achieve proper expenditures/capitation rates for the funding year.

Sector pool sizes are determined by the total dollars available for formula funding and the historical expenditure distribution across activity areas. For 2007/2008 funding, the expenditure distribution across activity areas was based on the 2004/2005 reported regional spending pattern, as determined from Management Information System (MIS) data and an expenditure allocation methodology.

All RHAs are required to submit to Alberta Health and Wellness financial and statistical MIS data which reconcile to the RHA's audited financial statements. A program developed by Alberta Health and Wellness assigns the reported RHA operating expenditures (excluding such items as building amortization and unfunded pension accrual adjustment) to the various funding sectors. All allocations are made on a facility-specific basis and then added up to the RHA and then provincial level. Health Funding makes a number of further adjustments to align sector expenditure to formula funded activity - for example, Province Wide Services expenditure is removed. There is ongoing improvement by Health Funding in the assignment of MIS data (expenditure allocation) to appropriate sectors, but further refinement has been targeted.

Activity Sector	2007/2008 Funding Pool Size (\$)	%
Acute Inpatient	2,073.4 M	40.3
Ambulatory Care	1,334.0 M	25.9
Continuing Care	893.3 M	17.4
Home Care	375.1 M	7.3
PPP	223.5 M	4.3
Community Lab	222.6 M	4.3
Health Link	22.7 M	0.4
TOTAL	5,144.7 M	100.0

The following funding pool sizes were calculated for 2007/2008 funding:

It is important not to interpret these pool sizes as targeted funding. Delineation of total funding into activity pools is done for data weighting purposes only.

4. <u>Calculate Expenditure (Capitation) Rates for 136 Demographic Groups</u>

The simplest way to distribute funding on a population basis would be straight per capita funding. However, it is well established that significant variation in health needs results from variations in age, gender and socio-economic status. For example, on average, seniors require much more health care than younger people, and individuals on social assistance generally require more health care than persons of the same age and gender not receiving social assistance.

Therefore, to more closely align funding with population health care needs, the scaled activity expenditures (steps 1-3) are assigned to 136 demographic groups to determine funding capitation rates for different population types. The 136 demographic groups are based on 20 age groups, 2 gender groups and 4 socio-economic status groups (welfare, aboriginal, premium subsidy, other). Appendix B contains more information on population, including: population data source, determining region of residence, the 136 demographic groups, and population projection.

All of the individual patient activity expenditures developed (steps 1-3) are assigned to one of the 136 demographic groups by linking the Personal Health Number (PHN) on each activity record to the Alberta Health Care Registry file to determine which demographic group the individual belongs to (note: scrambled PHNs are used to protect the identity of individuals at all times). Where PHNs cannot be matched to the Population Registry (less than one percent of all records), the records are excluded from the capitation funding rates calculation, although they are used for the import-export adjustments wherever possible.

The summed expenditure in each of the 136 groups is divided by the total projected Alberta population for that group to derive a provincial average per capita rate for that group, which is then used for population funding. This approach assumes that historical health care utilization serves as a proxy or measure of relative health care need in the funding year, and that age, gender and socio-economic characteristics will be accurate predictors of regional variations in population health expenditure needs (or, more precisely, health expenditure risks).

The following table lists the 2007/2008 funding capitation rate (rounded) for each of the 136 demographic groups. These capitation rates vary from a low of \$258 per person (*age 10-14 female premium subsidy*) to \$26,329 per person (*age 90+ female regular*).

2	2007	2008 FUNDIN	IG CAPITA	TION RATES	(\$)
Age_Desc	Sex	Regular	Premium Support	Aboriginal	Welfare
<01	F	2,161.44	1,985.75	2,967.45	2,996.57
01 - 04	F	509.56	412.18	1,329.01	884.17
05 - 09	F	336.81	338.97	368.45	614.56
10 - 14	F	281.85	258.20	369.00	477.62
15 - 19	F	523.03	498.85	949.25	1,575.75
20 - 24	F	755.00	734.27	1,677.62	4,018.42
25 - 29	F	1,044.08	824.89	1,654.70	3,864.42
30 - 34	F	1,141.71	848.04	1,503.53	4,525.77
35 - 39	F	900.33	727.07	1,272.20	4,322.43
40 - 44	F	778.33	754.89	1,280.74	5,233.70
45 - 49	F	778.85	831.54	1,303.64	4,676.88
50 - 54	F	888.10	986.79	1,952.38	5,052.02
55 - 59	F	1,123.53	1,239.55	1,738.00	6,444.33
60 - 64	F	1,474.68	1,617.58	2,314.07	7,175.11
65 - 69	F	2,371.13	-	4,030.37	-
70 - 74	F	3,639.92	-	4,963.29	-
75 - 79	F	5,685.85	-	6,068.64	-
80 - 84	F	9,746.68	-	7,930.28	-
85 - 89	F	14,915.15	-	21,568.49	-
90+	F	26,328.95	-	17,186.84	-
<01	Μ	2,630.46	2,074.25	4,008.83	3,465.48
01 - 04	М	650.42	568.00	1,038.22	1,509.08
05 - 09	М	502.17	443.94	534.19	1,030.75
10 - 14	Μ	364.81	339.07	384.68	617.33
15 - 19	Μ	401.35	348.23	438.95	1,054.80
20 - 24	Μ	346.76	327.23	649.71	3,016.08
25 - 29	М	327.50	316.10	571.35	5,072.79
30 - 34	Μ	368.12	393.08	916.03	5,285.83
35 - 39	Μ	402.05	483.73	810.43	5,216.65
40 - 44	Μ	496.77	515.09	991.61	5,760.55
45 - 49	М	589.92	880.95	1,074.80	5,477.90
50 - 54	М	745.60	991.56	1,381.09	5,686.97
55 - 59	М	1,039.35	1,308.29	1,434.34	5,746.23
60 - 64	М	1,469.44	1,640.69	1,668.86	6,667.37
65 - 69	М	2,586.75	-	3,594.59	-
70 - 74	М	4,040.02	-	5,775.76	-
75 - 79	М	5,939.26	-	6,802.14	-
80 - 84	М	9,100.83	-	7,887.48	-
85 - 89	М	13,534.96	-	5,312.04	-
90+	М	21,385.44	-	22,785.78	-

5. <u>Apply Capitation Rates to Each Region's Projected Population</u>

The 136 derived capitation rates are applied to each region's projected population (see Appendix B) to determine regional funding allocations. In other words, funding for each region is determined by multiplying the projected number of individuals in that region in each of the 136 demographic groups by the corresponding capitation rate (estimated provincial average health expenditures per person).

Because the capitation rates vary by demographic group, and because the demographic composition differs by region, a different *overall* per capita funding rate occurs for each Regional Health Authority. Northern regions tend to have the lowest overall per capita funding because of their younger populations, while East Central and Chinook regions have the highest per capita funding because of their high proportion of seniors.

6. <u>Protection, Prevention and Promotion Allocation</u>

The Protection, Prevention and Promotion (PPP) funding pool covers:

- Health Protection immunizations, communicable disease control, chronic disease programs, environmental health, dental health, community relations, sexual and reproductive care.
- Community Health Services community health nursing, family planning, health promotion/education, breast screening, drug awareness, mental heath promotion, pre-natal teaching, public health, nutrition, school health, etc.

Because of limited data for promotion/protection/prevention activity, this sector is excluded from the general population formula. A separate allocation of the dollars in this funding pool is determined by a modified population formula, with no import-export.

The first step in this funding allocation is to split the PPP funding pool into three broad age group categories based on proportions estimated by Alberta Health and Wellness:

	Split
Age 0-19	62%
Age 20-64	26%
Age 65+	12%
Total	100%

Next, for each RHA, the socio-economic population in each of the three broad age groups are weighted according to the scheme below. Again, this weighting scheme (relative utilization by socio-economic group) was based on the judgement of those involved with this health service area:

	Weighting
Regular	1
Subsidy	2
Aboriginal	5
Welfare	5

Finally, each region's share of the three funding age sub-pools is determined by its share of the estimated provincial weighted population. This led to the following allocations of the 2007/2008 Protection, Promotion and Prevention funding pool:

RHA	PPP Allocation	% Share
R1	12,960,316	5.8
R2	6,562,191	2.9
R3	72,848,857	32.6
R4	22,370,294	10.0
R5	7,287,622	3.3
R6	67,423,729	30.2
R7	16,080,877	7.2
R 8	11,058,689	4.9
R9	6,912,469	3.1
Total	223,505,045	100.0

Overview

Since population funding is allocated solely according to the population resident in a region, adjustments are made to compensate for the health services provided to individuals outside of their home region. Such "import-export" activity accounts for about nine percent of total regional health care activity (dollar basis) in the province.

Import-Export Funding Methodology

1. <u>Identification of Import-Export Activity</u>

The first step in calculating import-export adjustment is to identify inter-regional activity from the activity data sets used for population funding. For 2007/2008 funding, 2005/06 activity data sets were available for each RHA sector (except for home care and protection, prevention, promotion). As explained previously, the scaling of calculated 2005/2006 activity expenditure up to the total budget pool compensates for any non-reported activity (including import-export) as well as general volume increases up to the funding year.

An import-export is identified for any activity where the region of service (as determined by the facility number or service location on the activity record) is different from the region of patient residence (as determined by linking the individual to the Population Registry file on March 31, 2006). For services where the region of patient residence is not determinable, it is assumed they are local cases and not subject to import-export adjustment.

For hospital inpatient and ambulatory care services, Province Wide Services are excluded from import-export. Also excluded are the forensic psychiatry program at Calgary's Peter Lougheed Hospital which is funded outside of RHA Global Funding.

For continuing care, identification of import-export is more complicated. For residents classified twice by the Resident Classification System in different facilities, only the second classification is considered. Also, the region of residence for import-export (but not for general funding allocation) is set as the region where the person lived (mailing address) one year prior to admission to the continuing care facility system. Prior residency is checked for AHCIP registrations going back to April 1, 1984, which covers the large majority of continuing care residents. For those records where the provider RHA differs from the patient RHA one year prior to admission, an import-export service is identified. For resident records that do not have an AHCIP registration number one year prior to admission, no import-export identification is made.

For home care, <u>no</u> import-export activity is identified for 2007/2008 funding.

For Health Link, import-export activity was identified from Capital and Calgary files provided to Alberta Health and Wellness. The data showed 36.6% of the calls for Capital Health Link coming from outside the region, while Calgary's import proportion was only 10.3%. The highest Health Link utilization rates (calls per 1,000) were for residents of Capital (257), Peace Country (235) and Calgary (212).

2. <u>Valuation of Import-Export Activity</u>

The next step is to value identified import-export activity. The valuation methodology used is generally the same as used for the funding capitation rates, i.e. expenditure weights are attached and scaled up to the sector pool size. Total import-export increased by 12.4 per cent from the previous year.

Hospital inpatient - the same methodology used for the funding capitation rates (RIWs scaled by pool size) is used to value identified import-export inpatient services. However, as import-export activity does not require age gender and socio-economic identification, the total volume of activity records used to calculate import-export is slightly higher than that used for capitation funding - i.e. some activity records without a PHN cannot be used in the calculation of capitation rates, but can be used for import-export calculation where a valid Alberta postal code exists on the record to identify patient region residence. This results in a slightly lower scaling factor for import/export - the dollar multiplier for the import/export inpatient RIW is \$4,990.77 (rounded).

Ambulatory care - again, the same methodology used for the funding capitation rates (ACCS cell expenditures scaled by pool size) is used to value identified import-export services, with a slightly lower dollar multiplier because additional activity records can be utilized. The dollar multiplier for the import-export ACCS RIW is \$251.05 (rounded).

Continuing care - the values attached to identified import-exports are the Resident Classification System A to G expenditure weights (see page 7), not scaled by pool size because of concerns about the accuracy of the estimated total continuing care pool size, <u>less</u> the continuing care capitation funding rate already received by the service region because that person is included in that region's resident population. As explained previously, for Population Formula allocation, patients in continuing care facilities are considered as residents of the region in which the facility is located. However, for import-export identification, the region of residence is defined as the region where the person lived one year prior to their admission to the continuing care facility system. Because the region where the facility is located is already the recipient of the general Population Formula Funding (capitation rate) for that person, the continuing care component of the capitation rate is adjusted out of any import compensation it also receives.

Community lab - the dollar multiplier for the import-export Community Lab RIW is \$7.42 (rounded).

Health Link - calls are valued at the provincial average cost of \$2.27 per minute (rounded) rate. The dollar multiplier for the import/export Link RIW is \$1.31 (rounded).

3. Application of Import-Export to Regional Funding Allocations

The value of each identified import-export activity is assigned to the region where the service is provided (import), and deducted from the region where the patient comes from (export). Thus, summed import-export adjustments over all nine regions is zero - total imports (positive) equal total exports (negative). However, individual RHAs receive an overall net positive or negative adjustment depending on whether they are a net-importer or net-exporter of regional health services. Both Calgary and Capital RHAs service a significant number of patients from other regions, and therefore are recipients of a large *positive* net import-export adjustment (\$56.4 million and \$192.2 million, respectively). All other regions receive an overall *negative* net import-export adjustment.

		Inpatient		Ambulatory Care		
RHA	Import	Export	Net	Import	Export	Net
1	6,967,294	21,048,968	(14,081,675)	6,082,960	9,107,826	(3,024,866)
2	3,991,780	16,606,205	(12,614,425)	2,126,588	8,875,483	(6,748,894)
3	59,102,908	21,139,342	37,963,566	32,949,364	14,575,649	18,373,715
4	17,496,240	55,105,697	(37,609,457)	11,189,922	31,558,448	(20,368,526)
5	9,598,520	32,270,980	(22,672,461)	5,780,552	19,235,918	(13,455,366)
6	145,254,111	20,925,982	124,328,129	74,485,309	15,533,141	58,952,167
7	9,436,240	58,797,177	(49,360,937)	8,504,409	30,552,023	(22,047,614)
8	6,732,068	21,843,348	(15,111,281)	4,993,041	10,978,277	(5,985,236)
9	3,114,366	13,955,826	(10,841,459)	2,379,230	8,074,610	(5,695,380)
Total	261,693,527	261,693,527	0	148,491,374	148,491,374	0

2007/2008 Import-Export Funding Adjustments

	(Continuing Care		Community Lab		
RHA	Import	Export	Net	Import	Export	Net
1	1,697,311	1,529,903	167,408	1,443,855	382,055	1,061,800
2	964,945	881,070	83,875	171,432	551,972	(380,540)
3	5,412,528	5,463,066	(50,538)	1,316,993	2,373,292	(1,056,299)
4	5,561,900	4,409,213	1,152,687	1,766,838	2,094,125	(327,287)
5	3,558,334	3,208,329	350,004	547,649	1,299,903	(752,255)
6	7,949,990	8,625,687	(675,697)	5,925,195	1,748,031	4,177,164
7	3,964,107	4,039,195	(75,088)	539,255	2,615,644	(2,076,389)
8	721,575	1,128,816	(407,241)	254,945	757,714	(502,770)
9	223,161	768,570	(545,410)	387,842	531,266	(143,424)
Total	30,053,850	30,053,850	0	12,354,003	12,354,003	0

		Health Link TOTAL 2007/08 Import-Export Adjustments			rt Adjustments		
RHA	Import	Import Export Net		Import	Export	Net	
1	-	561,244	(561,244)	16,191,419	32,629,996	(16,438,577)	
2	-	510,218	(510,218)	7,254,745	27,424,947	(20,170,202)	
3	1,189,804 46,844		3 1,189,804 46,844 1,142,960		99,971,597	43,598,194	56,373,403
4	-	1,904,048	(1,904,048)	36,014,900	95,071,530	(59,056,631)	
5	-	594,711	(594,711)	19,485,055	56,609,842	(37,124,788)	
6	5,448,686	15,034	5,433,652	239,063,290	46,847,876	192,215,414	
7	-	1,246,872	(1,246,872)	22,444,010	97,250,912	(74,806,901)	
8	-	1,142,271	(1,142,271)	12,701,628	35,850,427	(23,148,799)	
9	-	- 617,248		6,104,599	23,947,519	(17,842,920)	
Total	6,638,490	6,638,490	0	459,231,244	459,231,244	0	

Overview

Nearly 20 per cent of RHA Global Funding is provided outside of the population formula. There are several possible reasons for having non-formula funding in addition to population formula funding:

- where sufficient data does not exist for a proper population formula allocation
- to compensate for geographical variances in health care needs beyond that determined from differences in demographic composition (diagnostic imaging adjustment, rural dialysis)
- to compensate for variances in RHA unit costs, because the formula provides the same provincial average per capita funding rates to each RHA (cost adjustment factor)
- where targeted funding is desirable (province wide services, acute care coverage, alternate payment plans, western Canada heart network, mental health funding, Fort McMurray MRI).
- adjustments to population funding to guarantee a minimum total funding increase from the previous year (minimum guarantee adjustments).

Cost Adjustment Factor

The Population Funding Formula provides all RHAs with the same set of provincial funding rates for various types of population (as defined by age, gender and socio-economic status). These rates reflect provincial average utilization for these groups and provincial average costs. Additional funding is required for regions with above-average cost pressures. The Cost Adjustment Factor consists of separate adjustments for inpatient and non-inpatient services:

For **hospital inpatient** services, the Cost Adjustment Factor is based on a statistical measurement of regional cost variations, using data primarily from the 2003/2004 fiscal year. Regression analysis is used to quantify the impact of various explanatory factors (such as patient remoteness) on regional inpatient costs (MIS reported) per standardized unit of output (RIW). The results are then used to predict regional cost variances from justifiable factors. When converted to an index (all regions = 1.0) the individual regional cost indices range from a low of 0.794 for Aspen, to 1.143 for Northern Lights - i.e. Aspen hospital inpatient costs are 79% of provincial average costs, while Northern Lights costs are measured as being 14.3% above the provincial average. Only three regions (Calgary, Capital, Northern Lights) have a cost index above the provincial average. The result for the two urban regions is largely due to the higher costs from their large teaching hospitals.

To determine the Cost Adjustment Factor amounts, the cost variation for each region is applied to its forecasted 2007/2008 hospital inpatient budget, calculated by the funding formula (provincial average utilization adjusted for import-export). For 2007/2008 funding, the Northern Allowance for Peace Country and Northern Lights is removed from the Cost Adjustment Factor in lieu of the special Northern Adjustment for these regions.

For **non-inpatient** RHA services, the historical Cost of Doing Business and Assured Access methodologies are applied to determine additional cost adjustments. *Cost of Doing Business* - cost supplements of twenty per cent for Region 9, ten per cent for Region 8, and five per cent for Region 7, are applied to their non-salary non-inpatient budget (estimated to be 25% of their 2007/2008 non-inpatient provincial average utilization, adjusted for import-export). The cost supplement percentages were modified from previous years based on the latest Community Price Comparison Survey conducted by Alberta Economic Development. *Assured Access* - for the remote population in each region, a cost supplement is calculated by applying special rates of 25 per cent (for remote population) and 50 per cent (for very remote population) to the average non-inpatient per capita funding rate. Determination of remote population is based on 2001 Census data, utilizing the previously established Assured Access methodology.

The results from the above calculations (inpatient and non-inpatient cost adjustment factors) were combined for each RHA, and all negative sums set to zero:

 Table A
 - Inpatient Sector

RHA	2007/2008 Inpatient Utilization (\$M)	Cost Variation Index	Cost Adjustment Factor (\$M)
	(a)	(b)	(a) $x(b) = (c)$
R1	102.2	-0.11	-11.5
R2	57.1	-0.08	-4.4
R3	750.6	0.05	41.3
R4	162.6	-0.14	-23.4
R5	61.6	-0.16	-9.8
R6	790.4	0.07	56.1
R7	63.4	-0.21	-13.1
R8	64.8	-0.12	-7.4
R9	20.7	0.14	3.0

 Table B - Remaining Sectors (Cost of Doing Business)

RHA	2007/2008 Non-IP Utilization (\$M)	Non-IPPortionUtilization25%		Cost of DB Adjustment Factor (\$M)	
	(a)	.25 x (a) = (b)	(c)	(b) x (c)	
R1	-	_	-	-	
R2	-	-	-	-	
R3	-	-	-	-	
R4	-	-	-	-	
R5	-	-	-	-	
R6	-	-	-	-	
R7	139.0	34.8	0.05	1.7	
R8	108.5	27.1	0.10	2.7	
R9	39.1	9.8	0.20	2.0	

RHA	Remote Population	Very Remote Population	Assured Access Funding Rate	A. Access Adjustment Factor (\$M)
	(a)	(b)		(a) x (c) + (b) x (d)
R1	2,355	268	(c) \$222.73	0.6
R2	5,383	4,118	remote	3.0
R3	1,824	15		0.4
R4	8,011	4,027	(d) \$445.46	3.6
R5	4,205	271	very remote	1.1
R6	65	0		0.0
R7	8,460	4,876		4.1
R8	11,692	6,402		5.5
R9	6,447	8,804		5.4

 Table C - Remaining Sectors (Assured Access)

 Table D - TOTAL (SUMMED) COST ADJUSTMENT FACTOR

RHA	Total Cost Adjustment Factor	Negatives set to Zero
	(\$M)	(\$M)
R1	-10.9	0
R2	-1.4	0
R3	41.7	41.7
R4	-19.8	0
R5	-8.8	0
R6	56.1	56.1
R7	-7.3	0
R8	0.7	0.7
R9	10.3	10.3
	60.7	108.8

Mental Health Funding

Selected community and facility mental health services were divested from the Alberta Mental Health Board to RHAs beginning April 1, 2003. In the years following, the funding envelope for these services was generally increased in line with the RHA Global Funding increases, but the same regional distribution was maintained year to year pending development of a new funding allocation model.

A new allocation model for the mental health funding, based on population needs, was developed by Alberta Health and Wellness in consultation with the health authorities. This new model is being implemented for 2007/2008, but with a no loss provision to maintain funding at least at the previous year's level for all regions.

	New Allocation	No Loss	No Loss	TOTAL MENTAL
	Model*	Top-Up	Contribution	HEALTH FUNDING
Chinook	14,372,229	0	-2,007,410	12,364,820
Palliser	7,941,902	0	-1,109,268	6,832,634
Calgary	85,546,035	0	-11,948,454	73,597,580
DTHR	65,700,246	11,524,457	0	77,224,703
East Central	1,635,077	3,470,702	0	5,105,779
Capital	97,989,797	0	-1,849,393	96,140,404
Aspen	6,509,373	3,003,149	0	9,512,522
Peace Country	8,523,843	0	-1,190,549	7,333,294
Northern Lights	2,461,046	106,764	0	2,567,810
	290,679,546	18,105,073	-18,105,073	290,679,546

2007/08 RHA Mental Health Funding

* New model is population-based with import/export. Based on 2005/06 activity data, except 2003/04 data for Calgary and DTHR because of data deficiencies in their 2005/06 reporting.

Other Targeted Funding

RHA	Diagnostic Imaging Adjustment	Acute Care Coverage	Alternate Payment Plan	Rural Dialysis	Western Canada CHN	Fort McMurray MRI	TOTAL
1	1,937,199	874,024	527,347	502,873	0	0	3,841,443
2	1,526,377	503,368	33,654	327,481	0	0	2,390,880
3	0	5,482,900	3,725,189	0	0	0	9,208,089
4	4,521,881	1,166,636	63,549	1,030,575	0	0	6,782,641
5	1,938,060	0	0	151,493	0	0	2,089,553
6	0	5,999,500	1,734,526	0	160,000	0	7,894,026
7	3,630,001	0	0	270,454	0	0	3,900,455
8	3,501,265	583,470	0	160,564	0	0	4,245,299
9	2,160,851	390,102	18,994	120,380	0	915,000	3,605,327
TOTAL	19,215,634	15,000,000	6,103,259	2,563,820	160,000	915,000	43,957,713

Diagnostic Imaging Adjustment (\$19,215,634)

The population formula provides each RHA with funding for the estimated provincial average utilization of regional health services, including provincial average diagnostic imaging (DI). However, because of varying regional access to private DI clinics, where the DI is paid for out of the physician fee-for-service pool, some regions require less than the provincial average DI expenditure while other regions require more. Thus, a DI Adjustment was introduced in 2000/2001 to compensate for the different population needs for regional DI services, as measured from radiology fee-for-service claims. The intent was to also remove financial incentives for RHAs to encourage private DI services. Beginning 2001/2002, the negative adjustments for Calgary and Capital were removed.

Acute Care Coverage (\$15,000,000)

Starting 2001/2002, certain RHAs with larger hospitals are to receive \$15 million on a continuing basis to address patient coverage needs in acute care hospitals. Funding can be used for expansion of existing programs and/or establishment of new programs and services involving physicians, nurses, clinical assistants, medical residents and/or nurse practitioners. This program is administered by the Health Workforce Division of Alberta Health and Wellness.

Alternate Payment Plan (\$6,103,259)

Upon regionalization, Alberta Health contracts with individual physicians were divested to certain regions (Calgary, Capital, Chinook, David Thompson, Palliser, Northern Lights), along with special funding to cover the contracts. These historical allocations have continued, but were adjusted for 2007/08 to reflect the new PICU and NICU funding arrangements with Calgary and Capital.

<u>Rural Dialysis Funding</u> (\$2,563,820)

All renal dialysis costs for Calgary and Capital are funded outside of RHA Global Funding through the Province Wide Services program. However, rural RHAs incur "hospitality" support costs (lab procedures, environmental services, etc.) for the satellite dialysis in their region. These support costs were historically borne by rural RHAs out of their global funding. To achieve equitable treatment for all regions, non-formula funding now covers the dialysis support costs of rural regions. For 2007/2008, this funding is based on an estimated rural RHA support cost of \$37.44 per projected rural hemodialysis satellite run.

Western Canadian CHN (\$160,000)

Funding is provided to Capital Health for the Western Canadian Children's Heart Network, which works towards providing quality paediatric cardiac care to all children in western Canada.

Fort McMurray MRI (\$915,000)

Operational funding is provided for the new MRI in Fort McMurray scheduled to become operational during 2007/2008.

Minimum Guarantee Adjustments

Each RHA is **guaranteed a minimum 6.0 percent funding increase**, prior to Province Wide Services and Northern Adjustment funding, from previous year comparable funding. This requires funding top-ups totaling \$52 million for East Central, Aspen, Peace Country and Northern Lights, the money for which is re-distributed on a proportional basis from the other five RHAs (negative adjustments).

Province Wide Services

Province Wide Services (\$594.4 million) are highly specialized services are provided to all Albertans by the Calgary and Capital health authorities. They are funded outside of population formula funding.

Northern Adjustment

For 2007/2008, a special Northern Adjustment is provided for Northern Lights (\$58 million) and Peace Country (\$8 million).

Appendix A - FUNDING COMPARISON

2007/2008 FUNDING	2005/2006 FUNDING
Populationactive AHCIP registrations as of March 31, 2006,projected to September 30, 2007, and scaled to anoverall annual provincial population increase of3.5% for 2007/2008Activity Data	Populationactive AHCIP registrations as of March 31, 2004,projected to September 30, 2005, and scaled to anoverall annual provincial population increase of 1.6%for 2005/2006Activity Data
 hospital inpatient: 2005/2006 Morb File CMGs ambulatory care: 2005/2006 ACCS visits (6.9 million records) continuing care: Spring 2006 Resident Classification patients home care: 2004/2005 HCIS provider hours community lab: 2005/2006 tests from special data request HealthLink: 2005/2006 files from Capital and Calgary RHAs 	 hospital inpatient: 2003/2004 Morb File CMGs ambulatory care: 2003/2004 ACCS visits (6.8 million records) continuing care: Fall 2003 Resident Classification patients home care: 2003/2004 HCIS provider hours community lab: 2003/2004 tests from special data request HealthLink: 2003/2004 files from Capital and Calgary RHAs
 Relative Cost Weights 1. hospital in-patient: CIHI CMG/Plx 2003 PC Grouper V2.0 with new 2004 values. 2. ambulatory care: SWRV weights based on 2003/2004 cost data from Calgary and Capital 3. continuing care: A to G values (with some inflation) 4. home care: 2004/2005 HCIS provincial average direct hourly cost for provider types 5. community lab: RVIs derived by Health Funding 	 Relative Cost Weights 1. hospital in-patient: CIHI CMG/Plx 2003 PC Grouper V2.0 with new 2003 and 2004 values. 2. ambulatory care: SWRV weights based on 2002/2003 cost data from Calgary and Capital 3. continuing care: A to G values (with some inflation) 4. home care: 2003/2004 HCIS provincial average direct hourly cost for provider types 5. community lab: RVIs derived by Health Funding

Pool Size(for scaling expenditure weights)1. total formula funding pool = \$5,144.7 million2. sector distribution of total pool based on 2004/2005 MIS expenditure allocation	Pool Size(for scaling expenditure weights)1. total formula funding pool = \$4,303 million2. sector distribution of total pool based on 2001/2002 MIS expenditure allocation
PPP Allocation PPP pool divided into 3 age sub-pools (age 0-19 62%; age 20-64 26%; age 65+ 12%) for allocation to RHAs on basis of weighted population	PPP Allocation PPP pool divided into 3 age sub-pools (age 0-19 62%; age 20-64 26%; age 65+ 12%) for allocation to RHAs on basis of weighted population
Non-Formula (Line Items) Funding Revised Inpatient Cost Adjustment Factor. New population-based funding for Mental Health.	Non-Formula (Line Items) Funding Revised Inpatient Cost Adjustment Factor.
 Import-Export 1. Based on 2005/2006 activity data. No import-export identified for home care. 2. Inpatient RIW multiplier of \$4,990. 	 Import-Export 1. Based on 2003/2004 activity data. No import-export identified for home care. 2. New import/export for Health Link. 3. Inpatient RIW multiplier of \$4,473.
Minimum Guarantee Each RHA guaranteed a 6.0% funding increase from previous year (2006/2007), prior to PWS and Northern Adjustment.	Minimum Guarantee Each RHA guaranteed a 4% funding increase from previous year (2004/2005), prior to new funding adjustments and PWS.

Population Data Source

The population data source for the funding model, as chosen several years ago by a ministerial committee on funding, is the AHCIP *Population Registry* file. The *Population Registry* file is generated from the *Stakeholder Registry System* and the *Eligibility and Premium (EAP) System*, designed primarily for Alberta Health Care Insurance Plan premium billing purposes. The EAP system identifies individuals receiving welfare benefits (one of the four socio-economic groups identified for population-based funding) through notifications received from the social services department.

The Stakeholder Registry includes all known residents of Alberta that have been determined to be eligible for Health Care Insurance coverage. It excludes some residents, such as the RCMP and military service personnel, whose health care is paid for by the Federal Government. Various sources are used to maintain the registration data, and information is updated daily. Alberta Health and Wellness currently processes retroactive changes to the file as far back as 24 months.

The base population data used in calculating the 2007/2008 RHA funding capitation rates is the Registry population as of March 31, 2006, as seen four months later at July 31. A four month lag for adjustments is necessary to allow for the bulk of retroactive adjustments. Included on the Registry file for registered residents are:

- address
- gender
- date of birth
- some socio-economic elements (e.g. eligibility for premium assistance, or coverage as a member of Health Canada's Treaty Indian group)

Individuals receiving social assistance - one of the four socio-economic groups used for Population Based Funding - are identified from a data file received from the social services department for March 31 (only those individuals listed in specific support categories). Also, physical residency addresses were obtained for the majority of Public Trustee clients, whose billing address on the Population Registry file is simply a Public Trustee office.

All registrations with the necessary data elements are included in the calculation of the expenditure and funding capitation rates, but population funding is only provided for **active** registrations with identified age, gender, socio-economic status and RHA residence. Registration records without an RHA or age identifier are excluded.

Population Residency

When Alberta's RHAs were originally created, there was a requirement to be able to assign each Alberta health care registrant to an RHA based on the residency of the registrant. After reviewing various options to achieve this requirement, it was determined that using the postal code from the registrant mailing address provided the most viable, although not totally foolproof, option. A mailing address is required to register for basic health services. While a physical address field is available in the population registry, it is not a mandatory field and not fully

utilized. Consequently, registrant postal codes (as at March 31) are used to determine region of residence for purposes of regional funding allocation.

For residents of continuing care facilities, the postal code is set to the postal code of the facility. For 2007/2008 funding, the Resident Classification System survey from the spring of 2006 was used for residency determination as of March 31, 2006. For health care registrants out of province (sabbatical leave, temporary employment, etc.) who only have their out-of-province address recorded in the Registry file, the last known Alberta postal code obtained from the Statistical Registration History Master is used to determine residency for population funding purposes. For registrations with Bad Address Flags, the flag is ignored and the region of residence becomes the location of the bad address postal code.

Assignment of postal codes to an RHA is not a simple or straightforward task. There are approximately 70,000 active postal codes in use in Alberta, and all of Alberta is not neatly divided up into postal code areas. Postal codes only specify to Canada Post where mail is to be delivered, which includes rural post office boxes accessed by individuals over an undefined geographic area.

Assignment of each postal code to a region by Alberta Health and Wellness is based on the "representative points" which Statistics Canada assigns to each postal code to refer to a specific geographic location (a coordinate proxy for the postal code location). For rural areas, one representative point is normally associated with each census enumeration area (in the absence of any cluster, the point is placed at the visual centre of the enumeration area), and thus it can simply be a matter of determining which census enumeration areas fall into which health region. Where one postal code covers a large geographical area (i.e. multiple representative points) located within two or more RHAs, all registrants are assigned to a single RHA on a "best assumption" basis. In general, assignment of postal codes to a region is less reliable for rural areas where postal codes may cover mail delivery points over a large geographical area. It is also recognized that postal code may not be the most appropriate residency indicator for population funding in cases where addresses are maintained by family but the dependant's address is different.

While improvements have been explored in determining residency for the health care registrants, it should be remembered that the financial impact from mis-assigned residents is minimal, on average, for any region as a result of the import-export mechanism of regional funding. For example, even if a region does not receive Population Based Funding for one of its actual residents, it would receive an import funding adjustment for all health services which it provides to that individual. The import-export mechanism, described previously in the manual, compensates regions for residents serviced from outside of their identified region.

Population groups

Altogether, there are 136 population groups identified for Population Based Funding. These are the result of:

- *twenty* age groups: (<1,1-4,5-9,10-14,15-19,20-24,25-29,30-34,35-39,40-44,45-49,50-54,55-59,60-64,65-69,70-74,75-79,80-84,85-89,90+)</p>
- *two* gender groups: (male, female)

- ➢ four socio-economic groups:
 - aboriginal (Treaty Status) including those age 65+
 - welfare (those receiving social assistance during the year) under age 65
 - subsidy (those with subsidized health care premiums) under age 65
 - other (this group represents the majority of Albertans including all persons age 65+)

Composition by socio-economic group:

40	aboriginal group	[20 age groups x 2 gender groups]
+ 28	welfare (under age 65) gr	roups [14 age groups x 2 gender groups]
+ 28	subsidy (under age 65) gr	roups [14 age groups x 2 gender groups]
+ 40	other groups	[20 age groups x 2 gender groups]

= 136 population groups

Each of these groups must be mutually exclusive for the funding model. The Registry file can only include one age or gender per individual, but it is possible that an individual could belong to more than one socio-economic group. For such cases, a decision hierarchy is imposed with the following order: welfare, aboriginal, subsidy, other.

These population groups were chosen because of the known sensitivity of health care needs to age, gender and socio-economic status. Estimated health expenditures per person are most sensitive to the *age* factor. The age group 1-19 years has an estimated average annual per capita regional health expenditure (not including PPP) of \$443.66, compared to the average rate of 6,422.44 for the 65+ age group, which is fourteen times higher! Various age group expenditure rates are shown below:

age	average per capita rate (\$)		
< 1	2,424		
1 -19	444		
20-44	699		
45-64	1,067		
65-69	2,500		
70-79	4,753		
80-89	11,305		
90+	24,962		

Gender is a less important determinant of health expenditure, but accounts for significant differences in the child-bearing years. On average, females in the child-bearing years incur over twice as much health care expenditure as males in the same age group (see capitation rate table on page 11).

In addition to age and gender, health expenditure needs also vary significantly by *socio-economic status*. The capitation rates are highest for those in the *welfare* group (about five times higher, on average, than the regular non premium subsidy group), followed by *aboriginal* (about

two times higher than the regular group), and then *subsidy* (about 1.5 times higher than the regular group).

March 31, 2006 - POPULATION COMPOSITION - By Percentage								
	Over	65 years of	aqe		Under 65 years of age			
RHA	Non- Aboriginal	Aboriginal	Total Seniors	Aboriginal	Promium Wolfaro			
R1	13.5	0.3	13.8	6.5	15.3	4.0	60.4	100.0
R2	12.6	0.0	12.7	0.8	12.5	2.8	71.2	100.0
R3	9.5	0.1	<mark>9.6</mark>	1.7	11.3	2.1	75.4	100.0
R4	11.9	0.1	12.0	4.8	11.9	2.8	68.5	100.0
R5	15.5	0.0	15.5	0.9	13.6	2.5	67.5	100.0
R6	11.1	0.1	11.2	2.3	11.5	3.6	71.4	100.0
R7	10.3	0.5	10.8	10.7	11.7	3.2	63.6	100.0
R8	8.5	0.3	8.8	7.3	11.2	2.7	69.9	100.0
R9	2.2	0.6	2.8	13.9	7.9	1.5	73.9	100.0
Prov	10.6	0.1	10.7	3.3	11.7	2.8	71.5	100.0

POPULATION COMPOSITION – By Percentage

(By socio-economic status)

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Population Projection

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Population formula funding applies calculated capitation funding rates to each region's projected population for the funding year. For 2007/2008 funding, this required a projection of March 31, 2006 population data to September 30, 2007 (mid-point of fiscal year).

Projected annual growth of each population cell (registered persons by age, gender and socioeconomic group in each community) is based on the historical growth from March 31, 2005 to March 31, 2006 pro-rated to 18 months. Projected populations are then scaled by the same factor to produce an overall provincial population increase equal to the forecasted provincial population growth for 2007/2008 of 3.5%.