

**Chapter 5**  
**Calculation of Percentage Coverage**  
(083 & 084 Forms)

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**Letter Carrier Route Measurement System Manual**

**Calculation of Coverage of Points of Delivery (083 & 084 Forms)**

**Introduction** Since it is a known fact that a letter carrier does not deliver to each point of call on his route on each day, it is necessary to determine the average number of calls he/she will serve on a daily basis, otherwise known as the “Percentage of Coverage”.

To permit the calculation of this percentage of coverage, two formulas have been developed through an analysis of data collected during a national sampling.

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**Purpose / Calculation** Determine the average number of points of delivery that will receive mail on an average day on each original route (083) at the moment of the ‘Assessment’ phase during a restructuring exercise and for each restructured route (084) on an ongoing basis as POCs are added or deleted or the status of a vacant POC changes.

**083 form**

The 083 form is produced at the end of the ‘Assessment’ phase of the restructure exercise. It reflects the new volume and POC totals for the original route and will not change during the life of the restructure.

Based on the LDUs delivered by the original route, the computer calculates the % coverage for each of ‘R’ and ‘C’ POC types using the ‘Total Volume Delivered’ recorded during the volume count for each POC type. The ‘Total Volume Delivered’ is divided by the total number of POCs delivered per POC type. The POC information is obtained from AIM, as updated by the Edit Book, 038 forms and AMS. A weighted average of the R and C POC types is then calculated for the original route (see example 1 below).

**084 form**

The 084 form is produced at the end of the restructure process and shows the volume and POC data for the restructured routes. It is maintained and produced on an ongoing basis as LDUs or POCs are added or deleted or the status of a vacant POC changes during the life of the restructure.

During the restructure phase, the original LDU’s volumes and POC data are transferred to the restructured routes. Based on the LDUs assigned to the restructured route, the computer calculates the % of coverage for each of ‘R’ and ‘C’ POC types using the new ‘Total Volume Delivered’ for each POC type and the new total number of POCs delivered for each POC type. A weighted average is then calculated for the restructured route (see example 2)

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Note: In calculating the percentage of coverage, the volume for ‘Direct’ and ‘Caller’ POCs is not included in the ‘Total Volume Delivered’ for their respective LDUs, and original (083) and restructured (084) routes. Also, these POCs are not included in the total POCs for their respective POC types for their LDUs and original and restructured routes. In regard to ‘Straights’, the POCs and Volume are included in the calculation of the % of coverage.

Note: Volume data used to produce the 083 and the 084 are indexed as per chapter 2.

<b>Route “A” Station “Z”</b>					
From volume count summary cards -072s					
Type of call	# of points of delivery	Total items delivered during 5-day count	City Mail Volume Index	Adjusted items delivered during 5 day count	Adjusted daily average items delivered
Residential	400	2900	90 %	3190	1.6
Commercial	50	1800	90 %	1980	8
Total	450	4700		5170	N/A

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**Calculation of Coverage of Points of Delivery (083 & 084 Forms)**

**Purpose / Calculation (084)** When an LDU is moved from a route to another route during major or minor restructures or updates, the LDU's volumes and POC data are removed from the originating route and transferred to the destination route. The computer then recalculates the % of coverage on both routes based on the revised 'Total Volume Delivered' and the revised number of 'R' and 'C' POC's. A new weighted average is then calculated for both routes (see example 3 below).

When a POC (R or C) is added to or, removed from a route or the status of vacancy changes on a route, the computer adds or removes the average volume delivered for that POC type in that LDU. The POC is also added or removed from the total of POCs for its POC type. The computer then recalculates the revised 'Volume Delivered (R or C)' for the LDU by multiplying the 'Avg. pcs Delivered/POC (R or C)' by the revised number of POCs (R or C). The % coverage for 'R' and 'C' POCs is then recalculated. A new weighted average is then calculated for both routes (see example below).

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**Calculations** The mathematics and the production of the resulting 083 and 084 forms are completed by computer.

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**Basic Formula** Determine separately the percentage of coverage for each of the following two point of call types for each original route and each restructured route using the formula below:

- Residential calls - houses and apartment-type calls.
- Commercial calls - business calls.

Percentage of coverage formula:  $(1.0 - (R / (R + V))^{\mathbf{R}}) \times 100.0$

V = Adjusted daily average items delivered per point of delivery.

R = A constant of 2.0 is used when calculating the percentage coverage for residential calls (incl. apartments)

R = A constant of 0.70 is used when calculating percentage coverage for commercial calls

The bold R in the above formula is an exponent. When using a scientific calculator, the  $Y^x$  function must be entered prior to entering the **R** exponent in the formula.  $Y$  is  $(R/(R+V))$  and the  $x$  exponent is the applicable **R** constant

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**Calculation of Coverage of Points of Delivery (083 & 084 Forms)**

**Weighted  
Formula**

The formula below uses the calculated percentages of coverage and the number of calls, by call type, to establish a combined (weighted) average percentage of coverage for the route.

$$\frac{((\text{RES. \% coverage} \times \text{Res. POC's}) + (\text{COM. \% coverage} \times \text{COM. POC's}))}{\text{Total POC's}}$$

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**Example**

The examples at the end of this document demonstrate the data required and the mathematical progression of the formulas for;

- Example 1 – Original route 083
  - Example 2 – Restructured route 084
  - Example 3 – Updated route 084
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**Calculation of Coverage of Points of Delivery (083 & 084 Forms)**

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**Headings**

The following information is printed automatically on the form:

<b>Heading</b>	<b>Information</b>
Post Office	Name of the depot
Depot Code	Depot code number
Route Number	Route number
Type of Route	Type of route = RSDMIN or RCHVR or etc.
Date Printed	Printed date of the document
% Coverage R	Calculated 'Residential' percentage of coverage for the route.
% Coverage C	Calculated 'Commercial' percentage of coverage for the route.
Weighted % Coverage	Calculated 'weighted' percentage of coverage for the route.
Formula	The formula used to calculate the percentage of coverage.

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**Calculation of Coverage of Points of Delivery (083 & 084 Forms)**

**Tabulated Data** The following is the information tabulated by the computer to produce the 'Percentage of coverage' and the result.

'Direct' and 'Caller' POC's are not included in the '# of POC Delivered' and in the 'Volume Delivered' data

<b>Column</b>	<b>Subject</b>	<b>Information</b>
1	LDU	The postal codes (FSA and LDU) are listed in delivery sequence.
2	# of POC Sorted 'R'	The number of residential points of call sorted by the route (incl. apartments).
3	# of POC Sorted 'C'	The number of commercial points of call sorted by the route. Includes 'Directs', 'Callers' and 'Straights'
4	# of POC Delivered 'R'	The number of residential points of call delivered by the route (incl. apartments).
5	# of POC Delivered 'C'	The number of commercial points of call delivered by the route. Does not include 'Directs', 'Callers' but does include 'Straights'
6	Total POC Sorted	The number of points of call sorted (R+C) by the route (incl. apartments). Includes 'Directs', 'Callers' and 'Straights'
7	Total POC Delivered	The number of points of call delivered (R+C) by the route (incl. apartments). Does not include 'Directs', 'Callers' but does include 'Straights'

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**Calculation of Coverage of Points of Delivery (083 & 084 Forms)**

Column	Subject	Information	
8	S/L Seq. 'R' (incl. apartments)	Vol. Delivered	Volume of machine sequenced S/L for residential POC sequenced and delivered by the letter carrier in the LDU.
		Avg. pcs. Delivered/POC	Average number of pieces of machine sequenced S/L sequenced per residential POC and delivered by the letter carrier in the LDU
9	S/L Seq. 'C'	Vol. Delivered	Volume of machine sequenced S/L for commercial POCs sequenced and delivered by the letter carrier in the LDU. Include Straights.
		Avg. pcs. Delivered/POC	Average number of pieces of machine sequenced S/L per commercial POC and delivered by the letter carrier in the LDU. Include Straights.
10	S/L Man. 'R' (incl. apartments).	Vol. Delivered	Volume of manually sequenced S/L for residential POCs and delivered by the letter carrier in the LDU.
		Avg. pcs. Delivered/POC	Average number of pieces of manually sequence S/L per residential POC and delivered by the letter carrier in the LDU.
11	S/L Man. 'C'	Vol. Delivered	Volume of manually sequenced S/L for commercial POCs and delivered by the letter carrier in the LDU.
		Avg. pcs. Delivered/POC	Average number of pieces of manually sequenced S/L per commercial POC and delivered by the letter carrier in the LDU.



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**Calculation of Coverage of Points of Delivery (083 & 084 Forms)**

<b>Column</b>	<b>Subject</b>	<b>Information</b>	
12	O/S Man. 'R' (incl. apartments).	Vol. Delivered	Volume of manually sequenced O/S for residential POCs delivered by the letter carrier in the LDU.
		Avg. pcs. Delivered/POC	Average number of pieces of manually sequenced O/S per residential POC and delivered by the letter carrier in the LDU.
13	O/S Man. 'C'	Vol. Delivered	Volume of manually sequenced O/S for commercial POCs and delivered by the letter carrier in the LDU. Does not include mail for Directs and Callers. Includes Straights.
		Avg. pcs. Delivered/POC	Average number of pieces of manually sequenced O/S per commercial POC and delivered by the letter carrier in the LDU. Includes Straights.
14	Total Vol. 'R' (incl. apartments).	Vol. Delivered	Volume total of S/L & O/S for residential POCs delivered by letter carrier in the LDU.
		Avg. pcs. Delivered/POC	Average number of total pieces of S/L & O/S per residential POC delivered by letter carrier in the LDU
15	Total Vol. 'C'	Vol. Delivered	Total volume of S/L & O/S for commercial POCs delivered by letter carrier in the LDU. Does not include Directs and Callers. Includes Straights.
		Avg. pcs. Delivered/POC	Average number of total pieces

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			of S/L & O/S per commercial POC delivered by letter carrier in the LDU. Include Straights
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Note: There are no 'Direct', 'Caller' or 'Straight' Residential 'R' POCs.

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**Example 1 – Form 083**

**Route 1 – Original route**


LDU / UDL	POC / PDR							LDU Volume UDL						Total	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
	Sorted / Trié R	Sorted / Trié C	Delivered / Livré R	Delivered / Livré C	Total POC Sorted/ PDR Trié	Total POC Delivered / PDR Livré	S/L / C/L Seq. R	S/L / C/L Seq. C	S/L / C/L Man. R	S/L / C/LMan. C	O/S / S/D Man. R	O/S / S/D Man. C	Total Vol. R	Total Vol. C	
1A1		10	3	10	2	13	12								
	Vol Delivered / Vol Livré							14.00	12.00	4.00	4.00	2.00	1.00	20.00	17.00
	Avg Pcs Delivered/POC / Moy items Livrés/PDR							1.40	6.00	0.40	2.00	0.20	0.50	2.00	8.50
1A2		12	4	12	4	16	16								
	Vol Delivered / Vol Livré							16.2	21.6	3.6	7.2	2.4	2.4	22.20	31.20
	Avg Pcs Delivered/POC / Moy items Livrés/PDR							1.35	5.40	0.30	1.80	0.20	0.60	1.85	7.80
1AX		350	50	350	50	400	400								
	Vol Delivered / Vol Livré							479.50	272.50	122.50	95.00	87.50	27.50	689.50	395.00
	Avg Pcs Delivered/POC / Moy items Livrés/PDR							1.37	5.45	0.35	1.90	0.25	0.55	1.97	7.90
8K3		15	1	0	0	16	0								
	Vol Delivered / Vol Livré							0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Avg Pcs Delivered/POC / Moy items Livrés/PDR							0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total Vol Delivered / Vol Livré							509.70	306.10	130.10	106.20	91.90	30.90	731.70	443.20
	Avg Pcs Delivered/POC / Moy items Livrés/PDR							1.37	5.47	0.35	1.90	0.25	0.55	1.97	7.91

Type of call	# of points	Vol. Delivered	Avg.
Residential	372	731.70	<b>1.97</b>
Commercial	56	443.20	<b>7.91</b>
<b>Total</b>	<b>428</b>	N/A	N/A

Res. Pcs/POC =	Com. Pcs/POC =
$\% = (1 - (2 / (2 + V))^2)$	$(1 - (0.7 / (0.7 + V))^{0.7})$
$\% = (1 - (2 / (2 + 1.97))^2)$	$(1 - (0.7 / (0.7 + 7.91))^{0.7})$
$\% = (1 - (2 / (3.9669))^2)$	$(1 - (0.7 / (8.6))^{0.7})$
$\% = (1 - (0.5042)^2)$	$(1 - (0.0813)^{0.7})$
$\% = (1 - (0.2542))$	$(1 - (0.1726))$
$\% = (0.7458)$	$\% = (0.8274)$
<b><math>\% = 74.58\%</math></b>	<b><math>\% = 82.74\%</math></b>

Weighted Percentage Coverage
$\% = ((74.58\% \times 372) + (82.74\% \times 56)) / 428$
<b>Weighted % = 75.65%</b>

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 <b>FUTURE STATE</b> <b>ÉTAT FUTUR</b>	<b>CALCULATION OF COVERAGE OF POINT OF DELIVERY</b> <b>CALCUL DU POURCENTAGE DE DESSERTE DES POINTS DE LIVRAISON</b>			<b>FUTURE STATE</b> <b>ÉTAT FUTUR</b>	<b>REPORT/RAPPORT</b> 083 <b>Page #</b> 1				
Post Office: <b>CHICOUTIMI LA BAIE</b> Bureau de poste	Depot Code Code du Dépôt	<b>B025</b>	Route # No. de l'itinéraire	<b>001</b>	Type of Route Type d'itinéraire	<b>RSDHVR1</b>	Imp Date Date de Mise en Oeuvre	<b>N/A</b>	
<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>The Percentage of Coverage at Route Coverage = The Sum of</p> <p>The Percentage of Coverage for a Given Call Type =</p> <p>Where Factor =</p> </div> <div style="width: 60%;"> <math display="block">\left[ \frac{\text{(Total Points of Delivery for Call Type)}}{\text{(Total Points of Delivery for Route)}} \right] \times \text{Percentage of Coverage for Call Type}</math> <math display="block">\left( 1.0 - \left[ \frac{\text{Factor}}{\text{Factor} + \text{Adjusted Avg Daily Items Per Points of Delivery}} \right] \right) \times \text{(Factor)} \times 100.00</math> <p style="margin-left: 40px;">2.00 for Single Residential Calls and Calls in Multi - Residential Buildings            0.70 for Commercial Calls</p> </div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>Le pourcentage de desserte de la route = Somme de</p> <p>Le pourcentage de desserte pour le type de PDR =</p> <p>Le Facteur =</p> </div> <div style="width: 60%;"> <math display="block">\left[ \frac{\text{(Total points de livraison par type)}}{\text{(Total points de livraison pour la route)}} \right] \times \text{Pourcentage de desserte pour le type de PDR}</math> <math display="block">\left( 1.0 - \left[ \frac{\text{Facteur}}{\text{Facteur} + \text{Moy quotidienne items ajustés par PDR livrés}} \right] \right) \times \text{(Facteur)} \times 100.00</math> <p style="margin-left: 40px;">2.00 pour les PDRs résidentiels simples ou édifices à résidences multiples            0.70 pour les PDRs commerciaux</p> </div> </div>									
Date Printed						#####	Version		0.0

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CALCULATION OF COVERAGE OF POINT OF DELIVERY  
CALCUL DU POURCENTAGE DE DESSERTE DES POINTS DE LIVRAISON

REPORT/RAPPORT 083

Page # 2



Post Office: **CHICOUTIMI LA BAIE** Depot Code: **B025** Route #: **001** Type of Route: **RSDHVR1** Imp Date: **N/A**  
Bureau de poste Code du Dépôt No. de l'itinéraire Type d'itinéraire Date de Mise en Oeuvre

LDU / UDL 1	POC / PDR						LDU Volume UDL						Total	
	2 Sorted / Trié R	3 Sorted / Trié C	4 Delivered / Livré R	5 Delivered / Livré C	6 Total POC Sorted/ PDR Trié	7 Total POC Delivered/ PDR Livré	8 S/L / C/L Seq. R	9 S/L / C/L Seq. C	10 S/L / C/L Man. R	11 S/L / C/L Man. C	12 O/S / S/D Man. R	13 O/S / S/D Man. C	14 Total Vol. R	15 Total Vol. C
1A1	10	3	10	2	13	12								
Vol Delivered / Vol Livré							14.00	12.00	4.00	4.00	2.00	1.00	20.00	17.00
Avg Pcs Delivered/POC / Moy items Livrés/PDR							1.40	6.00	0.40	2.00	0.20	0.50	2.00	8.50
1A2	12	4	12	4	16	16								
Vol Delivered / Vol Livré							16.2	21.6	3.6	7.2	2.4	2.4	22.20	31.20
Avg Pcs Delivered/POC / Moy items Livrés/PDR							1.35	5.40	0.30	1.80	0.20	0.60	1.85	7.80
1AX	350	50	350	50	400	400								
Vol Delivered / Vol Livré							479.50	272.50	122.50	95.00	87.50	27.50	689.50	395.00
Avg Pcs Delivered/POC / Moy items Livrés/PDR							1.37	5.45	0.35	1.90	0.25	0.55	1.97	7.90
8K3	15	1	0	0	16	0								
Vol Delivered / Vol Livré							0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Avg Pcs Delivered/POC / Moy items Livrés/PDR							0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Vol Delivered / Vol Livré			372	56			509.70	306.10	130.10	106.20	91.90	30.90	731.70	443.20
Avg Pcs Delivered/POC / Moy items Livrés/PDR							1.37	5.47	0.35	1.90	0.25	0.55	1.97	7.91

Type of Call / PDR	# Points Delivered / Livrés	Vol. Delivered / Livré	Avg / Moyenne
Residential / Résidentiel	372	731.70	1.97
Commercial	56	443.20	7.91
<b>Total</b>	<b>428</b>	<b>N/A</b>	<b>N/A</b>

% Coverage Residential / % Desserte Résidentiel	% Coverage Commercial / % Desserte Commercial	Weighted % Coverage / % Desserte Pondéré
$\% = (1 - (2/(2+1.97)))^{2.0}$	$\% = (1 - (0.7/(0.7+7.91)))^{0.7}$	$\% = [(74.58\% \times 372) + (82.74\% \times 56)] / 428$
<b>% = 74.58 %</b>	<b>% = 82.74 %</b>	<b>% = 75.65%</b>

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**Example 2 – Form 084**

**Route 1 – Restructured route,**

- LDU 1A2 transferred to another route,
- LDU 2A3 added to route 1
  - 6 residential POC's
  - 2 commercial POC's
  - New volume per POC's

LDU / UDL 1	POC / PDR						LDU Volume UDL						Total	
	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Sorted / Trié R	Sorted / Trié C	Delivered / Livré R	Delivered / Livré C	Total POC Sorted / PDR Trié	Total POC Delivered / PDR Livré	S/L / C/L Seq. R	S/L / C/L Seq. C	S/L / C/L Man. R	S/L / C/LMan. C	O/S / S/D Man. R	O/S / S/D Man. C	Total Vol. R	Total Vol. C
1A1		10	3	10	2	13	12							
	Vol Delivered / Vol Livré						14.00	12.00	4.00	4.00	2.00	1.00	20.00	17.00
	Avg Pcs Delivered/POC / Moy items Livrés/PDR						1.40	6.00	0.40	2.00	0.50	2.00	2.00	8.50
2A3		6	2	6	2	8	8							
	Vol Delivered / Vol Livré						11.4	4.2	3	4.4	1.8	1.8	16.20	10.40
	Avg Pcs Delivered/POC / Moy items Livrés/PDR						1.90	2.10	0.50	2.20	0.30	0.90	2.70	5.20
1AX		350	50	350	50	400	400							
	Vol Delivered / Vol Livré						479.50	272.50	122.50	95.00	87.50	27.50	689.50	395.00
	Avg Pcs Delivered/POC / Moy items Livrés/PDR						1.37	5.45	0.35	1.90	0.25	0.55	1.97	7.90
BK3		15	1	0	0	16	0							
	Vol Delivered / Vol Livré						0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Avg Pcs Delivered/POC / Moy items Livrés/PDR						0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total Vol Delivered / Vol Livré						504.90	288.70	129.50	103.40	91.30	30.30	725.70	422.40
	Avg Pcs Delivered/POC / Moy items Livrés/PDR						1.38	5.35	0.35	1.91	0.25	0.56	1.98	7.82

Type of call	# of points	Vol. Delivered	Avg.
Residential	366	725.70	<b>1.98</b>
Commercial	54	422.40	<b>7.82</b>
<b>Total</b>	<b>420</b>	N/A	N/A

Res. Pcs/POC =	Com. Pcs/POC =
$\% = (1 - (2 / (2 + V))^{.2})$	$(1 - (0.7 / (0.7 + V))^{.7})$
$\% = (1 - (2 / (2 + 1.98))^{.2})$	$(1 - (0.7 / (0.7 + 7.82))^{.7})$
$\% = (1 - (2 / (3.9828))^{.2})$	$(1 - (0.7 / (8.5222))^{.7})$
$\% = (1 - (0.5022)^{.2})$	$(1 - (0.0821)^{.7})$
$\% = (1 - (0.2522))$	$(1 - (0.1739))$
$\% = (0.7478)$	$\% = (0.8261)$
<b><math>\% = 74.78\%</math></b>	<b><math>\% = 82.61\%</math></b>

Weighted Percentage Coverage
$\% = ((74.78\% \times 366) + (82.61\% \times 54)) / 420$
<b>Weighted % = 75.63%</b>

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FUTURE STATE ÉTAT FUTUR	CALCULATION OF COVERAGE OF POINT OF DELIVERY CALCUL DU POURCENTAGE DE DESSERTÉ DES POINTS DE LIVRAISON				FUTURE STATE ÉTAT FUTUR	REPORT/RAPPORT Page # 1	084		
Post Office: Bureau de poste	CHICOUTIMI LA BAIE	Depot Code Code du Dépôt	B025	Route # No. de l'itinéraire	001	Type of Route Type d'itinéraire	RSDHVR1	Imp Date Date de Mise en Oeuvre	N/A

The Percentage of Coverage at Route Coverage = The Sum of  $\left[ \frac{\text{(Total Points of Delivery for Call Type)}}{\text{(Total Points of Delivery for Route)}} \right] \times \text{Percentage of Coverage for Call Type}$

The Percentage of Coverage for a Given Call Type =  $\left[ 1.0 - \left[ \frac{\text{Factor}}{\text{Factor} + \text{Adjusted Avg Daily Items Per Points of Delivery}} \right] \right] \times 100.00$

Where Factor = 2.00 for Single Residential Calls and Calls in Multi - Residential Buildings  
0.70 for Commercial Calls

Le pourcentage de desserte de la route = Somme de  $\left[ \frac{\text{(Total points de livraison par type)}}{\text{(Total points de livraison pour la route)}} \right] \times \text{Pourcentage de desserte pour le type de PDR}$

Le pourcentage de desserte pour le type de PDR =  $\left[ 1.0 - \left[ \frac{\text{Facteur}}{\text{Facteur} + \text{Moy quotidienne items ajustés par PDR livrés}} \right] \right] \times 100.00$

Le Facteur = 2.00 pour les PDRs résidentiels simples ou édifices à résidences multiples  
0.70 pour les PDRs commerciaux

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CALCULATION OF COVERAGE OF POINT OF DELIVERY  
 CALCUL DU POURCENTAGE DE DESSERTÉ DES POINTS DE LIVRAISON

REPORT/RAPPORT 084



Page # 2

Post Office: **CHICOUTIMI LA BAIE** Depot Code: **B025** Route #: **001** Type of Route: **RSDHVRL** Imp Date: **N/A**  
 Bureau de poste: Code du Dépôt: No. de l'itinéraire: Type d'itinéraire: Date de Mise en Oeuvre:

LDU / UDL 1	POC / PDR						LDU Volume UDL						Total	
	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Sorted / Trié R	Sorted / Trié C	Delivered / Livré R	Delivered / Livré C	Total POC Sorted / PDR Trié	Total POC Delivered / PDR Livré	S/L / C/L Seq. R	S/L / C/L Seq. C	S/L / C/L Man. R	S/L / C/L Man. C	O/S / S/D Man. R	O/S / S/D Man. C	Total Vol. R	Total Vol. C
1A1	10	3	10	2	13	12								
Vol Delivered / Vol Livré							14.00	12.00	4.00	4.00	2.00	1.00	20.00	17.00
Avg Pcs Delivered/POC / Moy items Livrés/PDR							1.40	6.00	0.40	2.00	0.20	0.50	2.00	8.50
2A3	6	2	6	2	8	8								
Vol Delivered / Vol Livré							11.4	4.2	3	4.4	1.8	1.8	16.20	10.40
Avg Pcs Delivered/POC / Moy items Livrés/PDR							1.90	2.10	0.50	2.20	0.30	0.90	2.70	5.20
1AX	350	50	350	50	400	400								
Vol Delivered / Vol Livré							479.50	272.50	122.50	95.00	87.50	27.50	689.50	395.00
Avg Pcs Delivered/POC / Moy items Livrés/PDR							1.37	5.45	0.35	1.90	0.25	0.55	1.97	7.90
8K3	15	1	0	0	16	0								
Vol Delivered / Vol Livré							0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Avg Pcs Delivered/POC / Moy items Livrés/PDR							0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Vol Delivered / Vol Livré			366	54			504.90	288.70	129.50	103.40	91.30	30.30	725.70	422.40
Avg Pcs Delivered/POC / Moy items Livrés/PDR							1.38	5.35	0.35	1.91	0.25	0.56	1.98	7.82

Type of Call / PDR	# Points Delivered / Livré	Vol. Delivered / Livré	Avg / Moyenne
Residential / Résidentiel	366	725.70	1.98
Commercial	54	422.40	7.82
Total	420	N/A	N/A

% Coverage Residential / % Desserte Résidentiel	% Coverage Commercial / % Desserte Commercial	Weighted % Coverage / % Desserte Pondérée
$\% = (1 - (2/(2+1.98)))^{2.0}$	$\% = (1 - (0.7/(0.7+7.82)))^{0.7}$	$\% = [(74.78\% \times 366) + (82.61\% \times 54)] / 420$
<b>% = 74.78 %</b>	<b>% = 82.61 %</b>	<b>% = 75.63%</b>



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Letter Carrier Route Measurement System Manual

**Example 3 – Form 084**

**Route 1 – Updated**

- Five (5) commercial POC are added to LDU 1A1
- The residential Avg. Pcs/POC for this LDU is multiplied by the new number of residential POC's to establish the new delivered volume.



LDU / UDL 1	POC / PDR						LDU Volume UDL						Total		
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
	Sorted / Trié R	Sorted / Trié C	Delivered / Livré R	Delivered / Livré C	Total POC Sorted / PDR Trié	Total POC Delivered / PDR Livré	S/L / C/L Seq. R	S/L / C/L Seq. C	S/L / C/L Man. R	S/L / C/L Man. C	O/S / S/D Man. R	O/S / S/D Man. C	Total Vol. R	Total Vol. C	
1A1	10	8	10	7	18	17	14.00	42.00	4.00	14.00	2.00	3.50	20.00	59.50	
	Vol Delivered / Vol Livré														
	Avg Pcs Delivered/POC / Moy items Livrés/PDR							1.40	6.00	0.40	2.00	0.20	0.50	2.00	8.50
2A3	6	2	6	2	8	8	11.4	4.2	3	4.4	1.8	1.8	16.20	10.40	
	Vol Delivered / Vol Livré														
	Avg Pcs Delivered/POC / Moy items Livrés/PDR							1.90	2.10	0.50	2.20	0.30	0.90	2.70	5.20
1AX	350	50	350	50	400	400	479.50	272.50	122.50	95.00	87.50	27.50	689.50	395.00	
	Vol Delivered / Vol Livré														
	Avg Pcs Delivered/POC / Moy items Livrés/PDR							1.37	5.45	0.35	1.90	0.25	0.55	1.97	7.90
BK3	15	1	0	0	16	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Vol Delivered / Vol Livré														
	Avg Pcs Delivered/POC / Moy items Livrés/PDR							0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Total Vol Delivered / Vol Livré							504.90	318.70	129.50	113.40	91.30	32.80	725.70	464.90
	Avg Pcs Delivered/POC / Moy items Livrés/PDR							1.38	5.40	0.35	1.92	0.25	0.56	1.98	7.88

Type of call	# of points	Vol. Delivered	Avg.
Residential	366	725.70	<b>1.98</b>
Commercial	59	464.90	<b>7.88</b>
<b>Total</b>	<b>425</b>	N/A	N/A

Residential % Coverage	Commercial % Coverage
$\% = (1 - (2 / (2 + V))^{.2})$	$(1 - (0.7 / (0.7 + V))^{.7})$
$\% = (1 - (2 / (2 + 1.98))^{.2})$	$(1 - (0.7 / (0.7 + 7.88))^{.7})$
$\% = (1 - (2 / (3.9828))^{.2})$	$(1 - (0.7 / (8.5797))^{.7})$
$\% = (1 - (0.5022)^{.2})$	$(1 - (0.0816)^{.7})$
$\% = (1 - (0.2522))$	$(1 - (0.1730))$
$\% = (0.7478)$	$\% = (0.8270)$
<b><math>\% = 74.78\%</math></b>	<b><math>\% = 82.70\%</math></b>

Weighted Percentage Coverage
$\% = [ (74.78\% \times 366) + (82.70\% \times 59) ] / 425$
<b>Weighted % = 75.71%</b>

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	FUTURE STATE ÉTAT FUTUR	CALCULATION OF COVERAGE OF POINT OF DELIVERY CALCUL DU POURCENTAGE DE DESSERTE DES POINTS DE LIVRAISON	FUTURE STATE ÉTAT FUTUR	REPORT/RAPPORT Page # 1	084 				
Post Office: Bureau de poste	CHICOUTIMI LA BAIE	Depot Code Code du Dépôt	B025	Route # No. de l'itinéraire	001	Type of Route Type d'itinéraire	RSDHVR1	Imp Date Date de Mise en Deuvre	N/A

The Percentage of Coverage at Route Coverage = The Sum of  $\left[ \frac{\text{(Total Points of Delivery for Call Type)}}{\text{(Total Points of Delivery for Route)}} \right] \times \text{Percentage of Coverage for Call Type}$

The Percentage of Coverage for a Given Call Type =  $\left[ 1.0 - \left[ \frac{\text{Factor}}{\text{Factor} + \text{Adjusted Avg Daily Items Per Points of Delivery}} \right] (\text{Factor}) \right] \times 100.00$

Where Factor = 2.00 for Single Residential Calls and Calls in Multi - Residential Buildings  
0.70 for Commercial Calls

Le pourcentage de desserte de la route = Somme de  $\left[ \frac{\text{(Total points de livraison par type)}}{\text{(Total points de livraison pour la route)}} \right] \times \text{Pourcentage de desserte pour le type de PDR}$



Le pourcentage de desserte pour le type de PDR =  $\left[ 1.0 - \left[ \frac{\text{Facteur}}{\text{Facteur} + \text{Moy quotidienne items ajustés par PDR litres}} \right] (\text{Facteur}) \right] \times 100.00$

Le Facteur = 2.00 pour les PDRs résidentiels simples ou édifices à résidences multiples  
0.70 pour les PDRs commerciaux

Date Printed  
Date Imprimé

Version 0.01

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	<b>CALCULATION OF COVERAGE OF POINT OF DELIVERY</b> <b>CALCUL DU POURCENTAGE DE DESSERTÉ DES POINTS DE LIVRAISON</b>	REPORT/RAPPORT 084 Page # 2		
Post Office: <b>CHICOUTIMI LA BAIE</b> Bureau de poste	Depot Code <b>B025</b> Code du Dépôt	Route # <b>001</b> No. de l'itinéraire	Type of Route <b>RSDHVR1</b> Type d'itinéraire	Imp Date <b>N/A</b> Date de Mise en Oeuvre

LDU / UDL 1	POC / PDR						LDU Volume UDL						Total	
	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Sorted / Trié R	Sorted / Trié C	Delivered / Livré R	Delivered / Livré C	Total POC Sorted / PDR Trié	Total POC Delivered / PDR Livré	S/L / C/L Seq. R	S/L / C/L Seq. C	S/L / C/L Man. R	S/L / C/L Man. C	O/S / S/D Man. R	O/S / S/D Man. C	Total Vol. R	Total Vol. C
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8K3	15	1	0	0	16	0								
Vol Delivered / Vol Livré							0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Avg Pcs Delivered/POC / Moy items Livrés/PDR							0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Vol Delivered / Vol Livré			366	59			504.90	318.70	129.50	113.40	91.30	32.80	725.70	464.90
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Commercial	59	464.90	7.88
Total	425	N/A	N/A

% Coverage Residential / % Desserte Résidentiel	% Coverage Commercial / % Desserte Commercial	Weighted % Coverage / % Desserte Pondéré
$\% = (1 - (2/(2+1.98)))^{2.0}$	$\% = (1 - (0.7/(0.7+7.88)))^{0.7}$	$\% = [(74.78\% \times 366) + (82.70\% \times 59)] / 425$
<b>% = 74.78 %</b>	<b>% = 82.70 %</b>	<b>% = 75.71%</b>