

### SAS X Command

- X Commands are system commands (dos, unix)
- Used to copy the template and create an empty file to be populated via SAS export

x copy

```
"&path_excel_out.\&file_name..xlsm";
```

my_table	Row ID			
A	B	C	D	E
Row ID	Value			
1	2			
2	4			
3	6			
4	8			
5	10			
6	12			

- ```

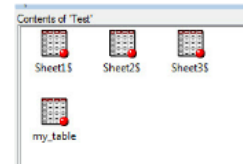
-- Remove log_rep_public (public key) from log_rep_public table
drop table log_rep_public;

-- Drop sequences by Zone Table
drop seq log_rep_public;
drop;

-- data log_rep_public (it is table)
select public;
exit;

-- Remove log_rep

```



## Sub savePDF()

Other regions: An Spring, new! An Spring

```
Shorts[Vec_Area[1:n]]$Select
regions = Range[30]$Value
push_area = Range[10]$Value
```

\* Debut stories (see page 5)

Downloaded At: 11:53 11 September 2009

penFile - path to a location to save

```
AsciSheetExportAndFormatType=TypeOf(TypeOfC, FileFormat=ascFile,
Quality=QualityStandard, IncludeDocProperties=True, IgnorePrintout=
False, OutputFormat=File)
```

End Note

- Dynamic Data Exchange - outdated technology

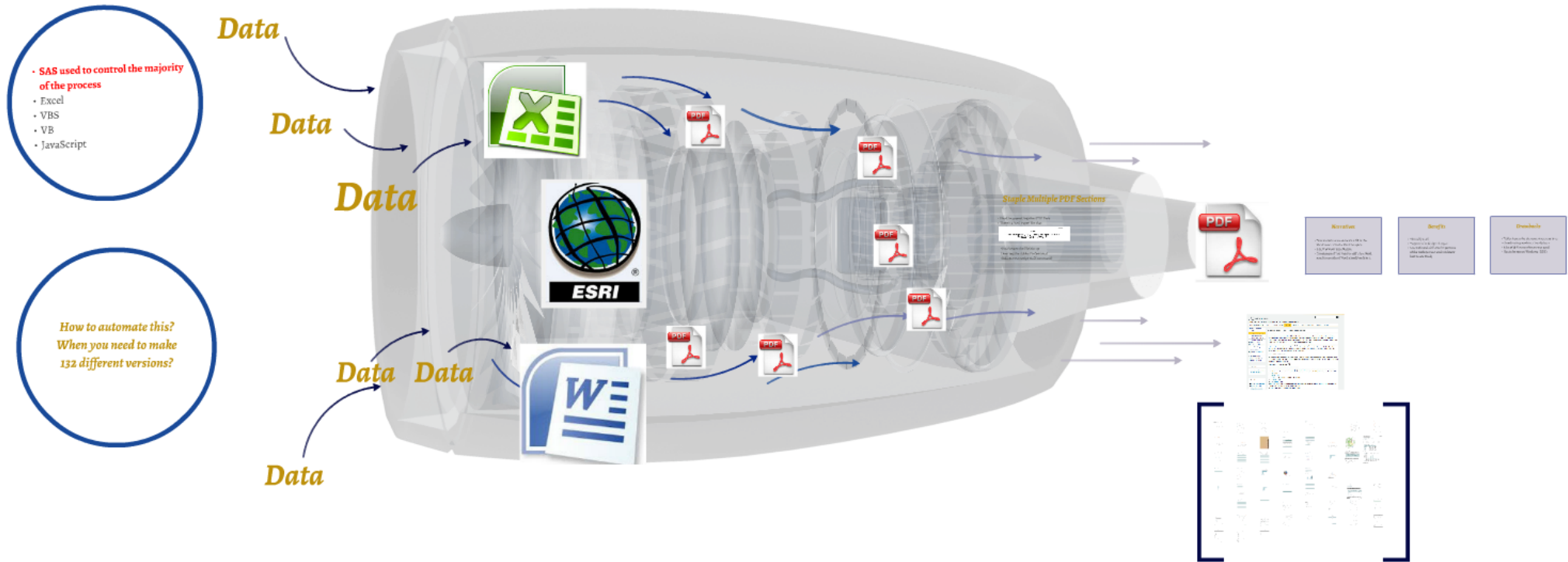
- Can open and modify Excel files
- Very manual
- Used to open each template and run VB script to export to PDF

[illegible]

The diagram shows a funnel-shaped process. On the left, five arrows labeled "Data" point into a funnel. The arrows are associated with icons: a blue circle with text "Safe and supported documents of languages: CSV, XML, JSON, XLS, XLSX, Text, etc.", a globe with "CSV" below it, a Microsoft Word icon, a Microsoft Excel icon, and a Microsoft PowerPoint icon. Inside the funnel, there are icons for a bar chart, a globe with "CSV" below it, and a Microsoft Word icon. On the right side of the funnel, five arrows labeled "Reports" point outwards to five document icons. Below the funnel, there is a large blue box containing a network diagram.

Thanks!  
Abiola

# Using SAS to Coordinate Complex Reports



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## Primary health care community profiles

To assist with primary health care planning, Alberta Health has developed a series of reports to provide a broad range of demographic, socio-economic, and population health statistics considered relevant to primary health care for communities across the province. Alberta Health Services divides the province into 5 large health service Zones, and these Zones are subdivided into smaller geographic areas called Local Geographic Areas (LGAs). The Alberta Health Community Profile reports provide information at the Zone and LGA level for each of the 132 LGAs in Alberta.

The Community Profiles below are intended to highlight areas of need and provide relevant information to support the consistent and sustainable planning of primary health care services. Each Profile offers an overview of the current health status of the residents in the LGA, indicators of the area's current and future health needs, and evidence as to which quality services are needed on a timely and efficient basis to address the area's needs.

### Find your community

The Community Profiles are based on LGAs and some Community Profiles contain information for multiple communities. If your community is not listed, select the community nearest to you. Each community is included in the Profile map of each report, which illustrates the boundaries of that LGA.

All community profile reports in PDF 

- [Airdrie](#) – Metro Moderate – Moderate Metro Influence
- [Athabasca](#) – Rural – Includes: Athabasca, Breynat, Calling Lake, Colinton, Donatville, Grassland, Island Lake, Island Lake South, Meanook, Perryvale, Rochester, Smith, South Baptiste, Wandering River, West Baptiste, Whispering Hills, White Gull
- [Banff](#) – Rural
- [Barrhead](#) – Rural
- [Beaumont](#) – Metro Moderate – Moderate Metro Influence
- [Beaverlodge](#) – Rural
- [Black Diamond](#) – Rural
- [Bonnyville](#) – Rural – Includes: Ardmere, Bonnyville, Bonnyville No. 87, Fort Kent, Glendon, Goodridge, Gurneyville, Hoselaw, Iron River, Kehewin, La Corey, MD of Bonnyville, Therien
- [Boyle](#) – Rural – Includes: Atmore, Boyle, Caslan, Ellscott





## Alberta Health Primary Health Care - Community Profiles

### Community Profile: Edmonton - Bonnie Doon Health Data and Summary

Primary Health Care Division  
February 2013



Alberta Health Services  
Community Profile: Edmonton - Bonnie Doon

February 2013

#### PRIMARY HEALTH CARE INDICATORS OF COMMUNITY PRIMARY CARE NEED

During a mapping project conducted by Alberta Health Services in 2012, 10 indicators relating to primary health care needs were identified for each local geographic area. Some of these indicators relate to primary care utilization and availability of primary care services, while others relate to health conditions of health care users and conditions of residents. One additional indicator included the responsibility of risk was seen as a strong determinant of health status. Specifically the geographic area's population (elderly, chronic diseases, urban, rural and remote) was used to inform of these indicators to consider for future health planning across groups. The following indicators have been highlighted for this LGA.

- **Elderly** - Bononia Doon's population rate for the elderly rate exceeds conditions for 100,000 population was far due to the corresponding rate provided size (240.2 vs. 200.2 AB average) (Table 15-1)
- **The age-standardized rate for people with three or more chronic diseases per 100 population was twice in Bononia Doon compared to the province (2.1 vs. 1.2 AB) (Table 15-1)**
- **The difference between rural and non-rural community and primary care per capita (1000) during 2008/2007 and 2006/2005 was 8.4 in Bononia Doon compared to the 0.7 in the overall average (Table 15-1)**
- **Prevalence of Diabetes - Bononia Doon had a prevalence of 10.6% of 10 years compared to 9.5% for Alberta (Table 15-1)**

#### ACCESS TO HEALTH CARE SERVICES

- **Elderly** - Bononia Doon residents needed ambulatory care services at facilities located outside the LGA. These rates were up 80.4% (or 11.2 additional) of all ambulatory care visits and more than twice (or 21.1% of all ambulatory visits) were to the Provincial Hospitals (Table 15-1 and 15-2)
- **Location** - Bononia Doon residents needed ambulatory care services at facilities located outside the LGA. These rates were up 80.4% (or 11.2 additional) of all ambulatory care visits and more than twice (or 21.1% of all ambulatory visits) were to the Provincial Hospitals (Table 15-1 and 15-2)

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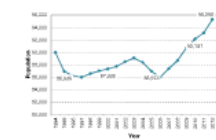
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Alberta Health Services  
Community Profile: Edmonton - Bonnie Doon

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In 2012, the largest age group was 25-64 year olds, accounting for 36.7% of the overall population. Children 17 and under comprised 14% of Bononia Doon's population, compared to 12.5% for Alberta. In addition, residents 65 and older accounted for 16.5% of Bononia Doon's population, compared to 14.4% for Alberta. The following table provides a comparison of the population aged 17 and under and 65 and older in Bononia Doon compared to the overall population in Alberta.

FIGURE 15-1 Local Geographic Area Population Overall as at End of Fiscal Year 1994 - 2012



The population of Bononia Doon increased by 5.4% between 1994 and 2012. A total of 66,500 individuals were reported in 2012 and a total of 63,000 people were reported in 1994.

Source: Alberta Health Services (AHS) Annual Population Planning (APPP) Report

Note: Population reported in 2012 is based on the Alberta Health Services (AHS) Annual Population Planning (APPP) Report

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Community Profile: Edmonton - Bonnie Doon

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#### Local Geographic Area: Edmonton - Bonnie Doon

##### COMMUNITY PROFILE

This table lists the rates of the following indicators for the local geographic area.

Alberta Health Services  
Community Profile: Edmonton - Bonnie Doon

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## Zone Level Information

This section contains information provided at the highest geographic breakdown level (urban, rural, and remote) of all local geographic areas. The map of Alberta has been divided into five geographic zones (Calgary Zone, Central Zone, Edmonton Zone, North Zone, and South Zone), representing the health care service Alberta Health Services. A variety of health indicators are unique to this section and are only reported at the level of geography due to either sampling or variability of data at the level of local geographic areas.

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Alberta Health Services  
Community Profile: Edmonton - Bonnie Doon

February 2013

#### Local Geographic Area: Edmonton - Bonnie Doon

##### ECONOMIC INDICATORS

The following table highlights a number of indicators relating to social determinants of health, such as income, housing, and education of residents. Tables for the local geographic area and Alberta overall are provided, as well as the national average, for comparison.

TABLE 1-1: Population Percentage of First Nations with Treaty Status as at March 31, 2012

| Education - Bononia Doon                                                       | Alberta |
|--------------------------------------------------------------------------------|---------|
| Population Percentage of First Nations with Treaty Status as at March 31, 2012 | 1.5%    |
| Source: Alberta Health Services (AHS) Annual Population Planning (APPP) Report | 1.5%    |

TABLE 1-2: Socio-Economic Indicators for Local Geographic Area versus Alberta Residents, 2010

| Education - Bononia Doon                                                       | Alberta |
|--------------------------------------------------------------------------------|---------|
| Population Percentage of First Nations with Treaty Status as at March 31, 2012 | 1.5%    |
| Source: Alberta Health Services (AHS) Annual Population Planning (APPP) Report | 1.5%    |

TABLE 1-3: Socio-Economic Indicators for Local Geographic Area versus Alberta Residents, 2010

| Education - Bononia Doon                                                       | Alberta |
|--------------------------------------------------------------------------------|---------|
| Population Percentage of First Nations with Treaty Status as at March 31, 2012 | 1.5%    |
| Source: Alberta Health Services (AHS) Annual Population Planning (APPP) Report | 1.5%    |

TABLE 1-4: Socio-Economic Indicators for Local Geographic Area versus Alberta Residents, 2010

| Education - Bononia Doon                                                       | Alberta |
|--------------------------------------------------------------------------------|---------|
| Population Percentage of First Nations with Treaty Status as at March 31, 2012 | 1.5%    |
| Source: Alberta Health Services (AHS) Annual Population Planning (APPP) Report | 1.5%    |

TABLE 1-5: Socio-Economic Indicators for Local Geographic Area versus Alberta Residents, 2010

| Education - Bononia Doon                                                       | Alberta |
|--------------------------------------------------------------------------------|---------|
| Population Percentage of First Nations with Treaty Status as at March 31, 2012 | 1.5%    |
| Source: Alberta Health Services (AHS) Annual Population Planning (APPP) Report | 1.5%    |

Alberta Health Services  
Community Profile: Edmonton - Bonnie Doon

February 2013

#### Table 1-1: Demographic Data: Population Overall as at March 31, 2012

| Education - Bononia Doon                                                       | Alberta |
|--------------------------------------------------------------------------------|---------|
| Population Percentage of First Nations with Treaty Status as at March 31, 2012 | 1.5%    |
| Source: Alberta Health Services (AHS) Annual Population Planning (APPP) Report | 1.5%    |

#### Table 1-2: Socio-Economic Indicators for Local Geographic Area versus Alberta Residents, 2010

| Education - Bononia Doon                                                       | Alberta |
|--------------------------------------------------------------------------------|---------|
| Population Percentage of First Nations with Treaty Status as at March 31, 2012 | 1.5%    |
| Source: Alberta Health Services (AHS) Annual Population Planning (APPP) Report | 1.5%    |

#### Table 1-3: Socio-Economic Indicators for Local Geographic Area versus Alberta Residents, 2010

| Education - Bononia Doon                                                       | Alberta |
|--------------------------------------------------------------------------------|---------|
| Population Percentage of First Nations with Treaty Status as at March 31, 2012 | 1.5%    |
| Source: Alberta Health Services (AHS) Annual Population Planning (APPP) Report | 1.5%    |

#### Table 1-4: Socio-Economic Indicators for Local Geographic Area versus Alberta Residents, 2010

| Education - Bononia Doon                                                       | Alberta |
|--------------------------------------------------------------------------------|---------|
| Population Percentage of First Nations with Treaty Status as at March 31, 2012 | 1.5%    |
| Source: Alberta Health Services (AHS) Annual Population Planning (APPP) Report | 1.5%    |

#### Table 1-5: Socio-Economic Indicators for Local Geographic Area versus Alberta Residents, 2010

| Education - Bononia Doon                                                       | Alberta |
|--------------------------------------------------------------------------------|---------|
| Population Percentage of First Nations with Treaty Status as at March 31, 2012 | 1.5%    |
| Source: Alberta Health Services (AHS) Annual Population Planning (APPP) Report | 1.5%    |

#### Table 1-6: Socio-Economic Indicators for Local Geographic Area versus Alberta Residents, 2010

| Education - Bononia Doon                                                       | Alberta |
|--------------------------------------------------------------------------------|---------|
| Population Percentage of First Nations with Treaty Status as at March 31, 2012 | 1.5%    |
| Source: Alberta Health Services (AHS) Annual Population Planning (APPP) Report | 1.5%    |

#### Table 1-7: Socio-Economic Indicators for Local Geographic Area versus Alberta Residents, 2010

| Education - Bononia Doon                                                       | Alberta |
|--------------------------------------------------------------------------------|---------|
| Population Percentage of First Nations with Treaty Status as at March 31, 2012 | 1.5%    |
| Source: Alberta Health Services (AHS) Annual Population Planning (APPP) Report | 1.5%    |

#### Table 1-8: Socio-Economic Indicators for Local Geographic Area versus Alberta Residents, 2010

| Education - Bononia Doon                                                       | Alberta |
|--------------------------------------------------------------------------------|---------|
| Population Percentage of First Nations with Treaty Status as at March 31, 2012 | 1.5%    |
| Source: Alberta Health Services (AHS) Annual Population Planning (APPP) Report | 1.5%    |

#### Table 1-9: Socio-Economic Indicators for Local Geographic Area versus Alberta Residents, 2010

| Education - Bononia Doon                                                       | Alberta |
|--------------------------------------------------------------------------------|---------|
| Population Percentage of First Nations with Treaty Status as at March 31, 2012 | 1.5%    |
| Source: Alberta Health Services (AHS) Annual Population Planning (APPP) Report | 1.5%    |

#### Table 1-10: Socio-Economic Indicators for Local Geographic Area versus Alberta Residents, 2010

| Education - Bononia Doon                                                       | Alberta |
|--------------------------------------------------------------------------------|---------|
| Population Percentage of First Nations with Treaty Status as at March 31, 2012 | 1.5%    |
| Source: Alberta Health Services (AHS) Annual Population Planning (APPP) Report | 1.5%    |

#### Table 1-11: Socio-Economic Indicators for Local Geographic Area versus Alberta Residents, 2010

| Education - Bononia Doon                                                       | Alberta |
|--------------------------------------------------------------------------------|---------|
| Population Percentage of First Nations with Treaty Status as at March 31, 2012 | 1.5%    |
| Source: Alberta Health Services (AHS) Annual Population Planning (APPP) Report | 1.5%    |

#### Table 1-12: Socio-Economic Indicators for Local Geographic Area versus Alberta Residents, 2010

| Education - Bononia Doon                                                       | Alberta |
|--------------------------------------------------------------------------------|---------|
| Population Percentage of First Nations with Treaty Status as at March 31, 2012 | 1.5%    |
| Source: Alberta Health Services (AHS) Annual Population Planning (APPP) Report | 1.5%    |

#### Table 1-13: Socio-Economic Indicators for Local Geographic Area versus Alberta Residents, 2010

| Education - Bononia Doon                                                       | Alberta |
|--------------------------------------------------------------------------------|---------|
| Population Percentage of First Nations with Treaty Status as at March 31, 2012 | 1.5%    |
| Source: Alberta Health Services (AHS) Annual Population Planning (APPP) Report | 1.5%    |

#### Table 1-14: Socio-Economic Indicators for Local Geographic Area versus Alberta Residents, 2010

| Education - Bononia Doon                                                       | Alberta |
|--------------------------------------------------------------------------------|---------|
| Population Percentage of First Nations with Treaty Status as at March 31, 2012 | 1.5%    |
| Source: Alberta Health Services (AHS) Annual Population Planning (APPP) Report | 1.5%    |

#### Table 1-15: Socio-Economic Indicators for Local Geographic Area versus Alberta Residents, 2010

| Education - Bononia Doon                                                       | Alberta |
|--------------------------------------------------------------------------------|---------|
| Population Percentage of First Nations with Treaty Status as at March 31, 2012 | 1.5%    |
| Source: Alberta Health Services (AHS) Annual Population Planning (APPP) Report | 1.5%    |

#### Table 1-16: Socio-Economic Indicators for Local Geographic Area versus Alberta Residents, 2010

| Education - Bononia Doon                                                       | Alberta |
|--------------------------------------------------------------------------------|---------|
| Population Percentage of First Nations with Treaty Status as at March 31, 2012 | 1.5%    |
| Source: Alberta Health Services (AHS) Annual Population Planning (APPP) Report | 1.5%    |

#### Table 1-17: Socio-Economic Indicators for Local Geographic Area versus Alberta Residents, 2010

| Education - Bononia Doon                                                       | Alberta |
|--------------------------------------------------------------------------------|---------|
| Population Percentage of First Nations with Treaty Status as at March 31, 2012 | 1.5%    |
| Source: Alberta Health Services (AHS) Annual Population Planning (APPP) Report | 1.5%    |

#### Table 1-18: Socio-Economic Indicators for Local Geographic Area versus Alberta Residents, 2010

| Education - Bononia Doon                                                       | Alberta |
|--------------------------------------------------------------------------------|---------|
| Population Percentage of First Nations with Treaty Status as at March 31, 2012 | 1.5%    |
| Source: Alberta Health Services (AHS) Annual Population Planning (APPP) Report | 1.5%    |

#### Table 1-19: Socio-Economic Indicators for Local Geographic Area versus Alberta Residents, 2010

| Education - Bononia Doon                                                       | Alberta |
|--------------------------------------------------------------------------------|---------|
| Population Percentage of First Nations with Treaty Status as at March 31, 2012 | 1.5%    |
| Source: Alberta Health Services (AHS) Annual Population Planning (APPP) Report | 1.5%    |

#### Table 1-20: Socio-Economic Indicators for Local Geographic Area versus Alberta Residents, 2010

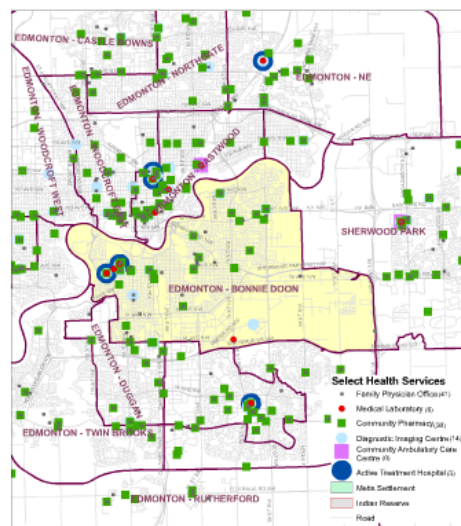
| Education - Bononia Doon                                                       | Alberta |
|--------------------------------------------------------------------------------|---------|
| Population Percentage of First Nations with Treaty Status as at March 31, 2012 | 1.5%    |
| Source: Alberta Health Services (AHS) Annual Population Planning (APPP) Report | 1.5%    |

#### Table 1-21: Socio-Economic Indicators for Local Geographic Area versus Alberta Residents, 2010

| Education - Bononia Doon                                                       | Alberta |
|--------------------------------------------------------------------------------|---------|
| Population Percentage of First Nations with Treaty Status as at March 31, 2012 | 1.5%    |
| Source: Alberta Health Services (AHS) Annual Population Planning (APPP) Report | 1.5%    |

#### Table 1-22: Socio-Economic Indicators for Local Geographic Area versus Alberta Residents, 20

Map of Selected Health Services in  
Local Geographic Area of Edmonton - Bonnie Doon  
Population (2012): 95,298



Prepared by Information and Analysis Branch, Alberta Health

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## Local Geographic Area: Edmonton - Bonnie Doon

### DEMOGRAPHICS

The table below shows the population distribution of the local geographic area broken down by age group and gender, for the most recent fiscal year available. Specific age groups have been identified. Children under the age of one were defined as infants, while pediatric age group includes all minors excluding infants. People with no age information available were categorized as unknown.

**TABLE 2.1** Distribution of Population Covered<sup>1</sup> by Age and Gender  
As at March 31, 2012

| Local Geographic Area Population |               |               |               |
|----------------------------------|---------------|---------------|---------------|
| Age Group                        | Female        | Male          | Total         |
| Infants: Under 1                 | 456           | 504           | 960           |
| Pediatric: 1-17                  | 6,368         | 6,583         | 12,951        |
| 18-34                            | 14,326        | 15,453        | 29,779        |
| 35-64                            | 18,106        | 19,690        | 37,796        |
| 65-79                            | 4,872         | 3,929         | 8,801         |
| 80 & Older                       | 3,137         | 1,874         | 5,011         |
| Unknown                          | 0             | 0             | 0             |
| <b>Total</b>                     | <b>47,265</b> | <b>48,033</b> | <b>95,298</b> |

The following table presents the rates for childhood immunization coverage by the age of two for the local geographic area and Alberta. The data is provided for the most recent calendar year available.

**TABLE 5.2** Childhood Immunization Coverage Rates, 2010

| DTaP-IPV-Hib (Diphtheria, Tetanus, Pertussis, Polio and Haemophilus Influenza B)<br>Dose 4 of 4 |        |                        |         |
|-------------------------------------------------------------------------------------------------|--------|------------------------|---------|
| Age Group                                                                                       | Period | Edmonton - Bonnie Doon | Alberta |
| By Age Two                                                                                      | 2010   | 70.2%                  | 73.1%   |
| MMR (Measles, Mumps, and Rubella)                                                               |        |                        |         |
| By Age Two                                                                                      | 2010   | 85.9%                  | 85.7%   |

By the age of two, 70.2% of children in Edmonton - Bonnie Doon (in 2010) had been vaccinated against DTaP-IPV-Hib (compared to 73.1% for AB), while 85.9% had received MMR vaccines (compared to 85.7% for AB).

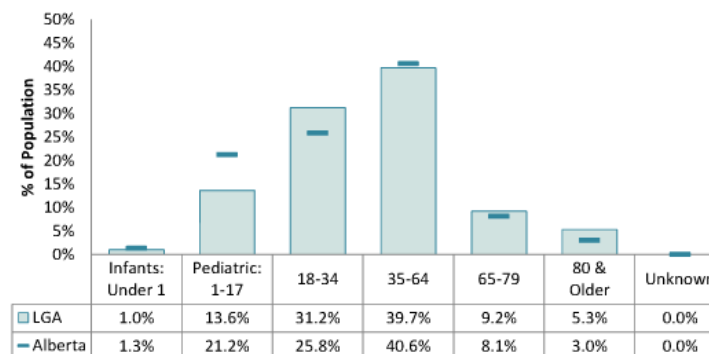
#### Sources:


Alberta Hospital Discharge Abstract Database (DAD), Alberta Health  
Alberta Health Care Insurance Plan (AHCIP) Annual Population Registry File, Alberta Health  
Alberta Vital Statistics Births File  
Regional Immunization Applications  
Immunization and Adverse Reaction to Immunization (Imm/ARI)  
Postal Code Translation File, Alberta Health

**Notes:**  
<sup>1</sup> See Appendix A for definition.

The following figure profiles the age group distribution of population for both the local geographic area and Alberta, for the most recent fiscal year available.

**FIGURE 2.1** Percentage Distribution of Local Geographic Area (LGA) versus Alberta Population  
By Age Groups as at March 31, 2012





*How to automate this?  
When you need to make  
132 different versions?*

- **SAS used to control the majority of the process**
- Excel
- VBS
- VB
- JavaScript





# *Excel Template*

- Used to create graphs/charts based on data inside the template
- Design is WYSIWYG
- Can control layout, formatting of data, text

# ***SAS X Command***

- X Commands are system commands (dos, unix)
- Used to copy the template and create an empty file to be populated via SAS export

*/\*Copy the file to create template\*/*

*x copy*

*"&path\_template.\&template\_name..xlsm"*

*"&path\_excel\_out.\&file\_name..xlsm";*



# *Excel Template*

- SAS can export data sets to Excel
- SAS can export data sets to specific ranges in Excel
- Excel file can use these to populate tables/graphs/text

my\_table

$f_x$

Row ID

A

B

C

D

E

Row ID

Value

1

2

2

4

3

6

4

8

5

10

6

12

```
libname lga_rep pcfiles path= "&path_excel_out.\&file_name..xlsm" ;
```

```
*Demographics by Zone Tab;
```

```
proc sql;
```

```
drop table lga_rep.my_table;
```

```
quit;
```

```
data lga_rep.my_table (DBLABEL=yes);
```

```
set my_table;
```

```
run;
```

```
libname lga_rep;
```

## Contents of 'Test'



Sheet1\$



Sheet2\$



Sheet3\$



my\_table



## ***Next Step -> Save to PDF***

- Office 2010 files can be automatically saved to PDF
- Office allows you to record macros -> perform action and it generates VB code to automate the task.
- Using the VB code as a starting point, created VB to export Sheets to PDF documents

```
Sub savePDF()
```

```
    Dim region As String, newFile As String
```

```
    Sheets("Src_Area_Info").Select
```

```
    region = Range("B6").Value
```

```
    path_out = Range("B9").Value
```

```
    ' Select sheets for part 1
```

```
    Sheets(Array("TitlePage", "Introduction")).Select
```

```
    Sheets("TitlePage").Activate
```

```
    newFile = path_out & region & ".pdf"
```

```
    ActiveSheet.ExportAsFixedFormat Type:=xlTypePDF, Filename:=newFile _
```

```
        , Quality:=xlQualityStandard, IncludeDocProperties:=True, IgnorePrintAreas _
```

```
        :=False, OpenAfterPublish:=False
```

```
End Sub
```

# ***DDE***

- Dynamic Data Exchange - outdated technology
- Can open and modify Excel files
- Very manual
- Used to open each template and run VB script to export to PDF

```
*Run VB Script to split File;
options noxwait noxsync;

x "C:\Program Files\Microsoft Office\Office12\EXCEL.EXE";

data _null_;
  z=sleep(1); /* wait 1 seconds for Excel to start */
run;

filename cmds dde 'excel|system';

data _null_; /* talk to DDE, no output data */
  file cmds;
  put "[open('"&path_excel_out.\&file_name..xlsm"')]";
  x=sleep(1); /* wait 1 seconds for it to open */
run;

data _null_;
  file cmds;
  put '[Run("SavePDF")]';
  put '[Run("SplitPDF")]';
  put '[close(o)]';
  put '[quit()]';
run;
```





**ESRI**



# *Staple Multiple PDF Sections*

- Need to append together PDF Docs
- There's a "SAS Paper" for that

SESUG 2011

Paper BB-15

**Combining External PDF Files by Integrating SAS® and Adobe® Acrobat**

Brandon Welch, Rho®, Inc., Chapel Hill, NC

Ryan Burns, Rho, Inc., Chapel Hill, NC

SAS Creates the VBS Script

Does require Adobe Professional

SAS executes script via X command

# *Narratives*

- Text narratives are done via a fill in the blank concept in the Excel template
- A LOT of work but effective
- For example if you want to add 's to a word, need to consider if word already ends in s.

# *Benefits*

- Diversify work
- Easy to make design changes
- Less technical skill sets for portions of the work (ie most analysts know how to use Excel)



# *Drawbacks*

- Tables have to be the same size every time
- Coordinating work in a lot of places
- A lot of different software was used
- Has to be run on Windows (DDE)

*Thanks !*





Thank You!

