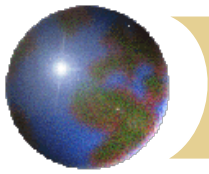


*EVDS 628:*  
*Census Data Workshop*

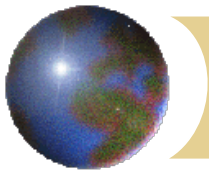
Peter Peller

Spatial & Numeric Data Services



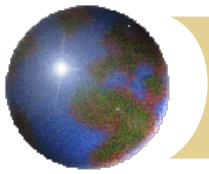
# *Overview*

- ✚ Introduction to the Census of Canada
- ✚ Census Geography
- ✚ Census data sources



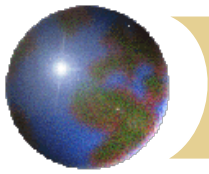
## *What is a Census?*

- ✦ **Survey** that collects data from **all members** of a **population**
- ✦ in Canada the “de jure” method is used rather than the “de facto”
- ✦ Conducted every 5 years (since 1956)
- ✦ Since 1941, sampling has been used for the “long form” part



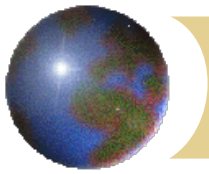
# *Purpose of the Census*

- ⊕ Governed by the Statistics Act
- ⊕ Used to determine the number of seats in parliament
- ⊕ Used to adjust federal electoral district boundaries to achieve equal representation
- ⊕ Population estimates for transfer payments
- ⊕ Support decision making, planning public services
- ⊕ and much more...



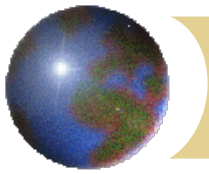
## *Historical Census Firsts*

- ⊕ 1666 – first census in New France
- ⊕ 1851 – first decennial census
- ⊕ 1871 – first census after Constitution Act
- ⊕ 1906 – first census of province of Alberta
- ⊕ 1956 – first national quinquennial census
- ⊕ 2006 – first online questionnaire
- ⊕ 2011 – elimination of long form questionnaire
- ⊕ 2016 – reinstatement of long form questionnaire



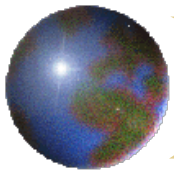
# *Evolution of Census Questions*

- ⊕ 1931 – questions on home appliances including radios
- ⊕ 1941 – question on flush toilets & running water
- ⊕ 1951 – question on wartime service
- ⊕ 1976 – head of household definition changed
- ⊕ 2001 – question on same-sex couples
- ⊕ 2006 – 92 year question on personal information

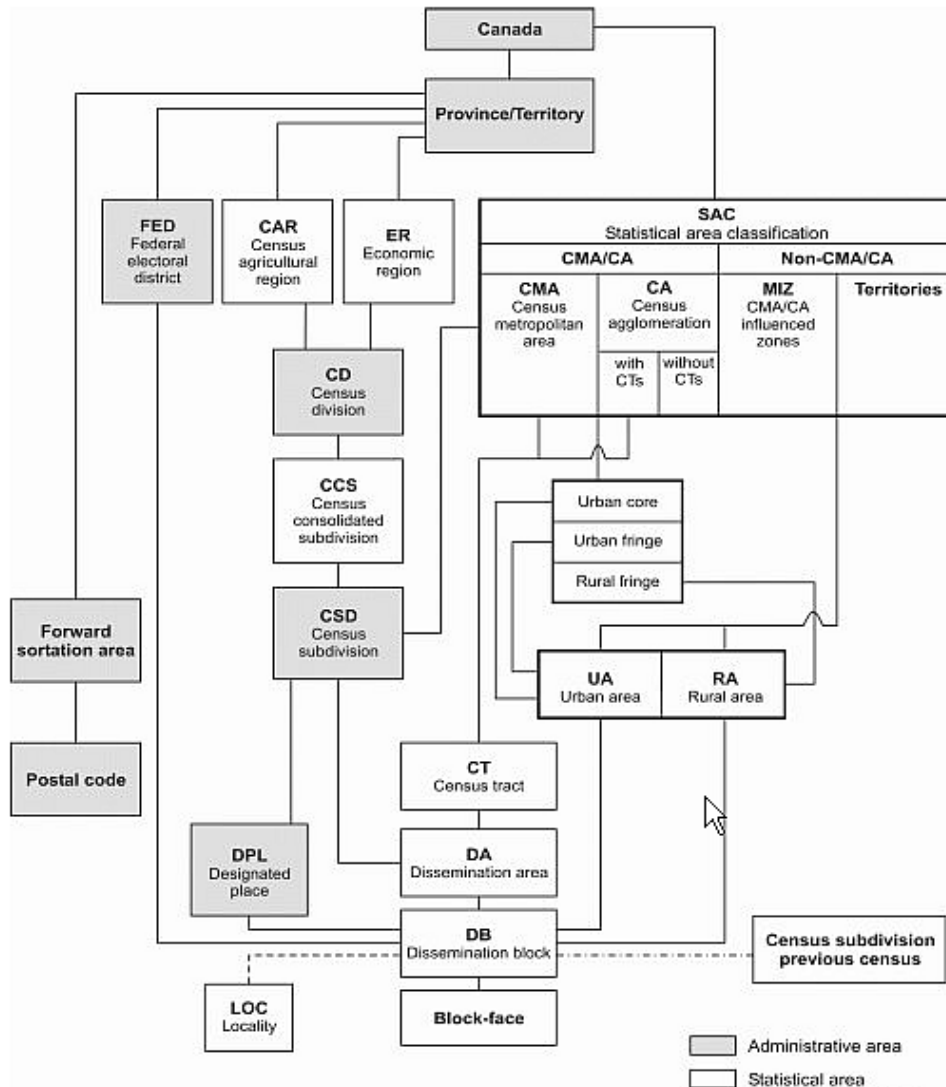


# *Census Universes*

- ✚ Dwellings – structures
- ✚ Households
- ✚ Families (economic & census)
- ✚ Individuals

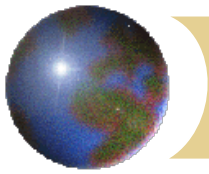


# Census Geography



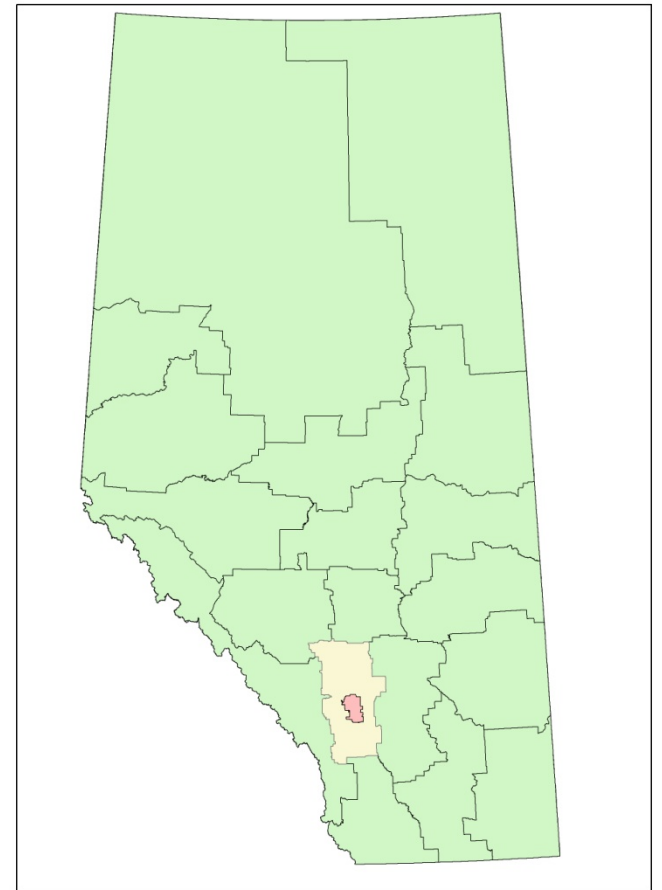
- ⊕ Census Metropolitan Area
- ⊕ Census Subdivision
- ⊕ Census Tract

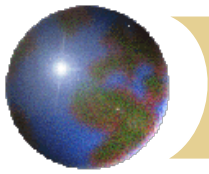




# *Census Divisions & Subdivisions*

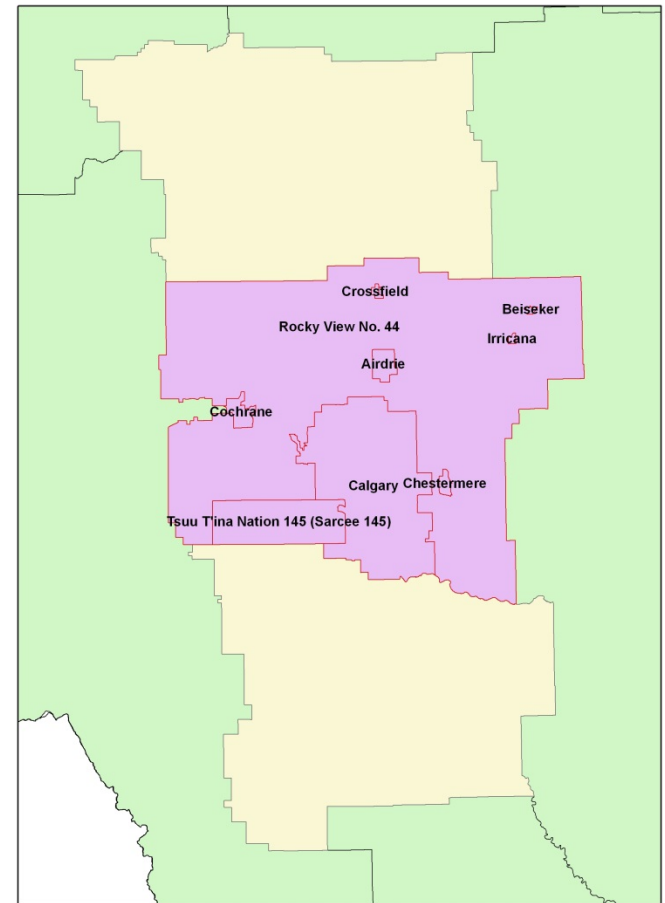
- ✦ Province – Alberta (48)
- ✦ Census Division – No. 6
- ✦ Census Subdivision – Calgary
- ✦ Census Code = 4806016

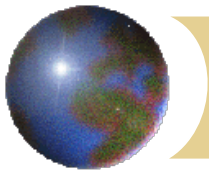




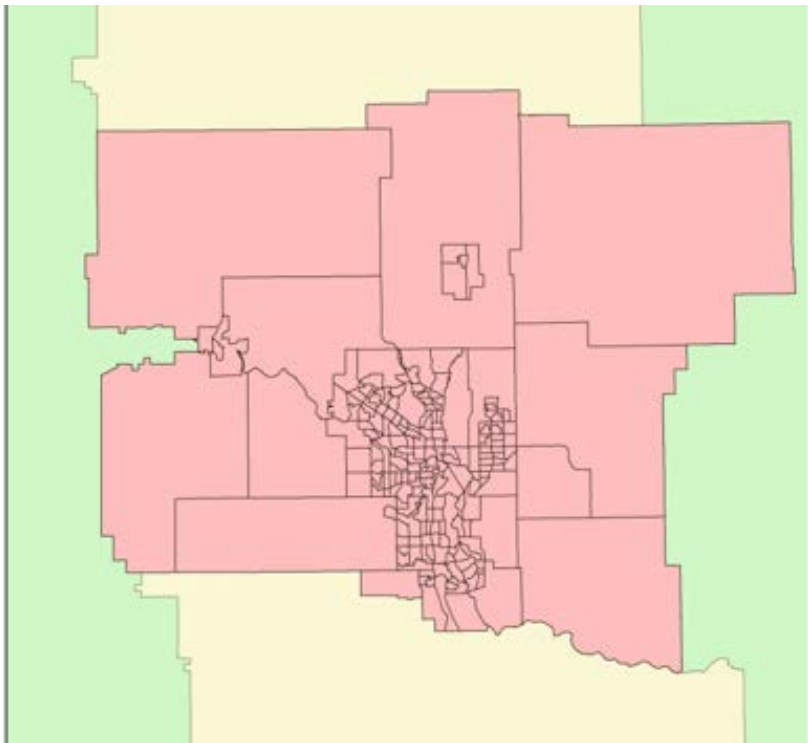
# *Calgary CMA vs. Calgary CSD*

- ➊ Calgary CMA contains 9 census subdivisions
- ➋ Calgary CMA population in 2016 is 1,392,609
- ➌ Calgary CSD population in 2016 is 1,239,220



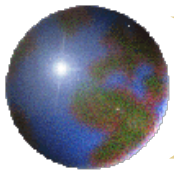


## *Calgary CMA (825) – Census Tracts*



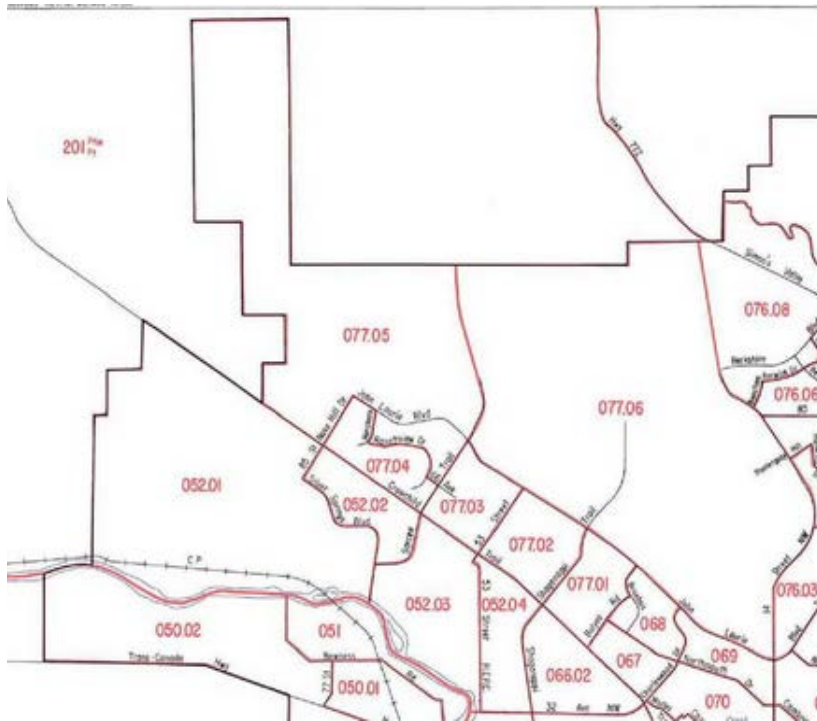
- ⊕ Created by local specialists
- ⊕ 2500-8000 population
- ⊕ Fairly homogeneous
- ⊕ Follow physical features
- ⊕ Relatively stable
- ⊕ Splits reflect changes (decimal numbers)



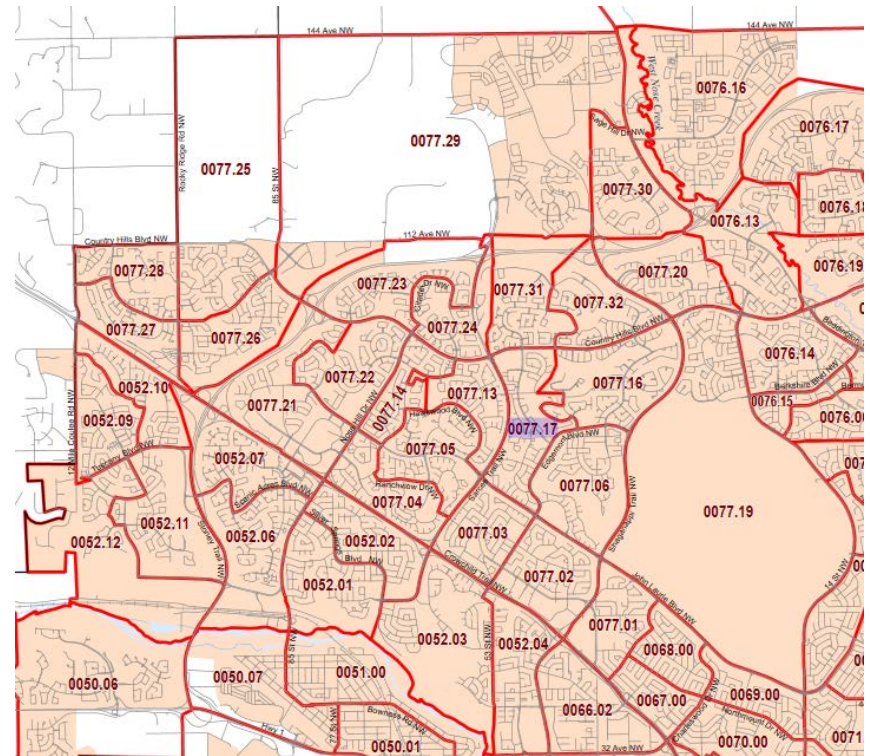


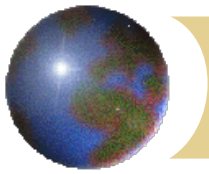
# Changes in Census Tracts

## 1986 Census Tracts



## 2016 Census Tracts

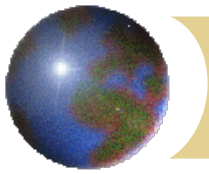




## *Community vs. Census Tract*

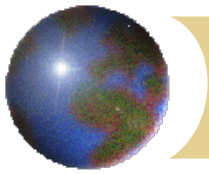
<http://arcg.is/19Orar>

Note: O is a capital "oh" and NOT zero



# *Census Data Source and Guide*

- ✚ Statistics Canada Census Program [link](#)
  
- ✚ Canadian Census Analyzer (UofT) [link](#)
  
- ✚ Guide to the Census (LibGuide) [link](#)
  - ▣ Access to project data (1986-2011 Calgary census tract data) under "Class Data" tab



## *Requiring Assistance*

- ✦ Drop by Spatial & Numeric Data Services
- ✦ Contact me at [ppeller@ucalgary.ca](mailto:ppeller@ucalgary.ca)
- ✦ I am also available for one-on-one consultations  
– please email and book an appointment.