

Canada Food Stats... still developing

A quick look back at...

Canada Food Stats

A perspective on energy consumption

From calories to vitamins...

Next steps





Mid-nineties –started with food consumption

✓ Major limitations

✓ = weak, incomplete, apparent

Reviewed back to 1960

✓ Added new series (total = 194)

✓ Important nutritionally = food groups

Canada Food Stats

✓ Food Statistics Desk (SWOT-AAFC)

✓ Nutrient by food source over time

Food Statistics

✓ Free on internet

✓ Popular spin off of CFS

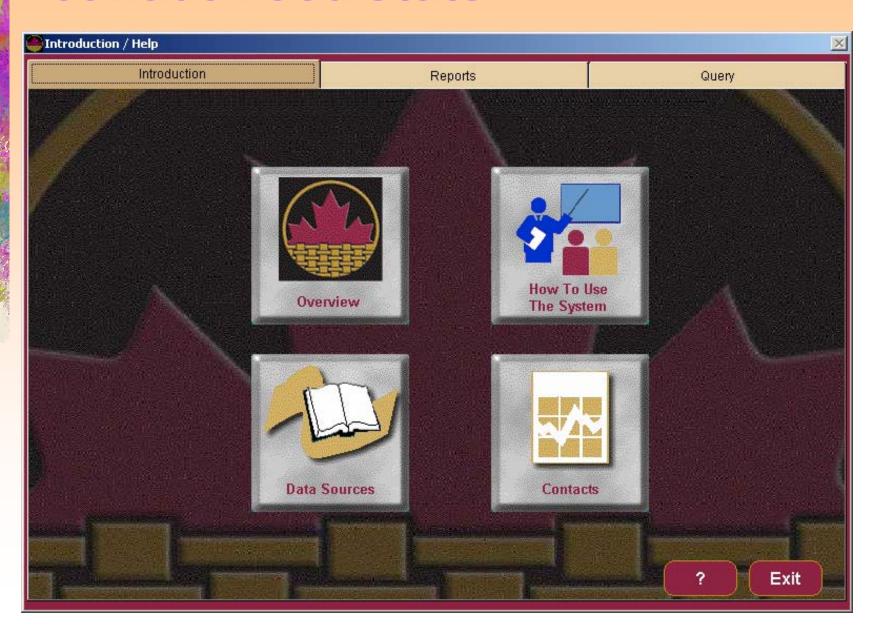


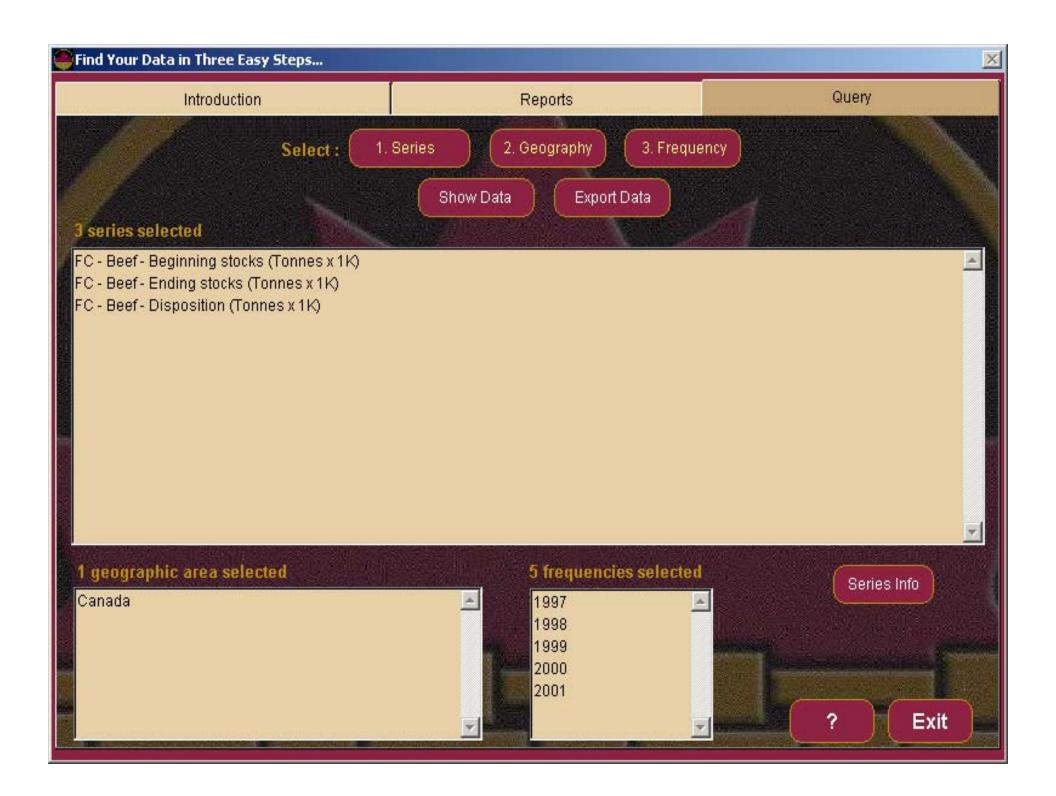
an electronic compendium produced by Statistics Canada in cooperation with AAFC and Health Canada

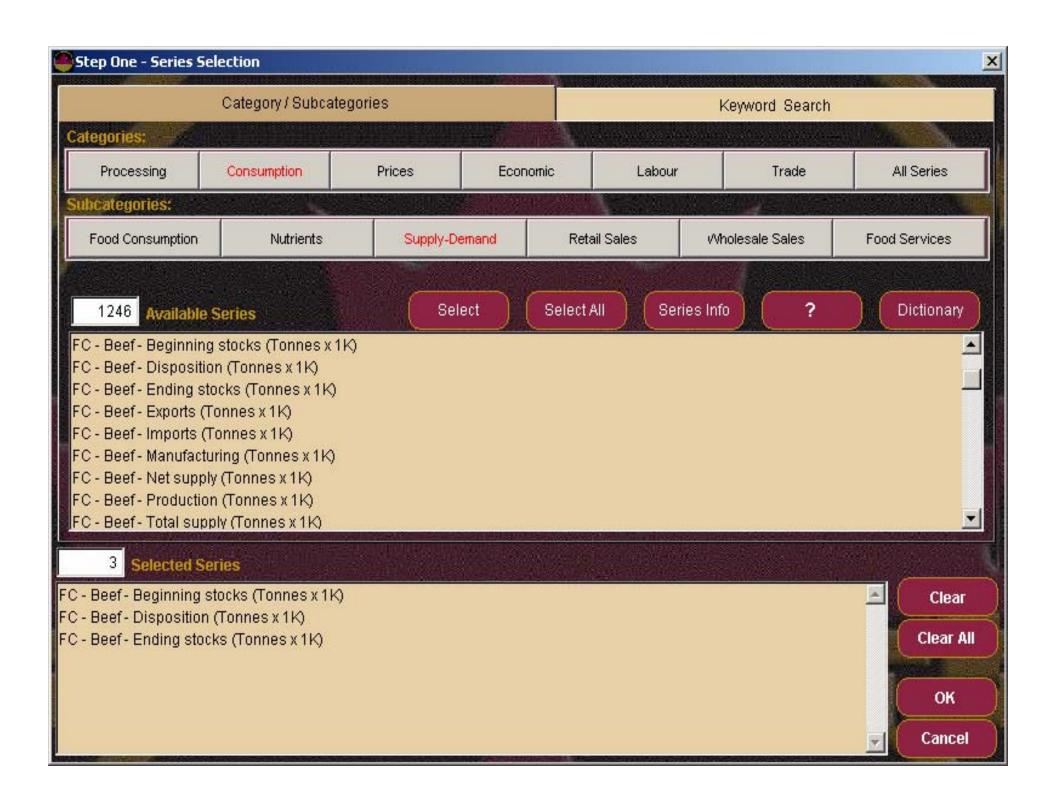
- Fast access to volumes of data -on a CD
 - √ different subject matter areas
 - Challenge to access and consolidate data
- Friendly, intuitive "point & click"
 - √ bilingual
- Time series or pre-formatted
- Canada level annual data
 - ✓ selected provincial, quarterly or monthly data
- **►** Meta data

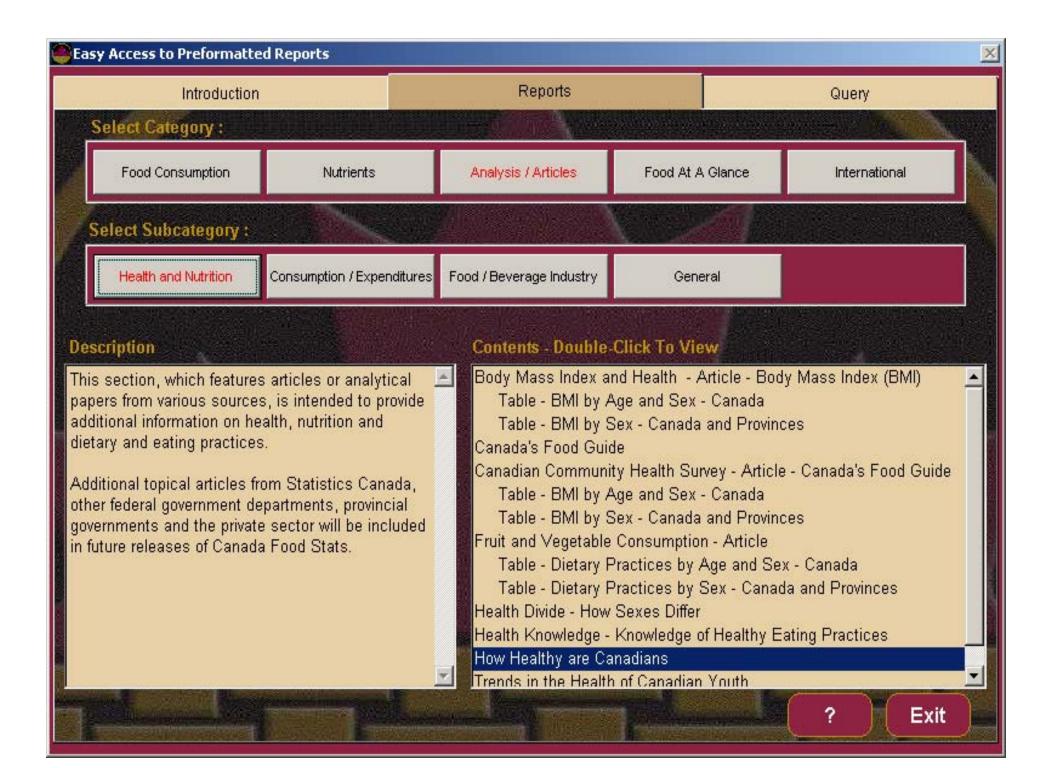


Canada Food Stats











- -starts with food consumption statistics
 - The Method
 - consumption = residual
 - supply & demand -accounts for stocks and flows

Beginning Stocks

- +imports
- +production
- **=Total Supply**
- -exports
- -manufacturing
- -waste
- -ending stocks





= Food Net / Canadian population = disappearance/Canadian





- Apply nutrient factors to retail weight
 - Factors developed by Food Bureau of AAFC based on HC nutrient file
- Translates all food into nutritional equivalents
 - Energy
 - Carbohydrates
 - Fat
 - Protein
 - Vitamins
 - Minerals
- Provides valuable trends but not levels
 - 1976 on





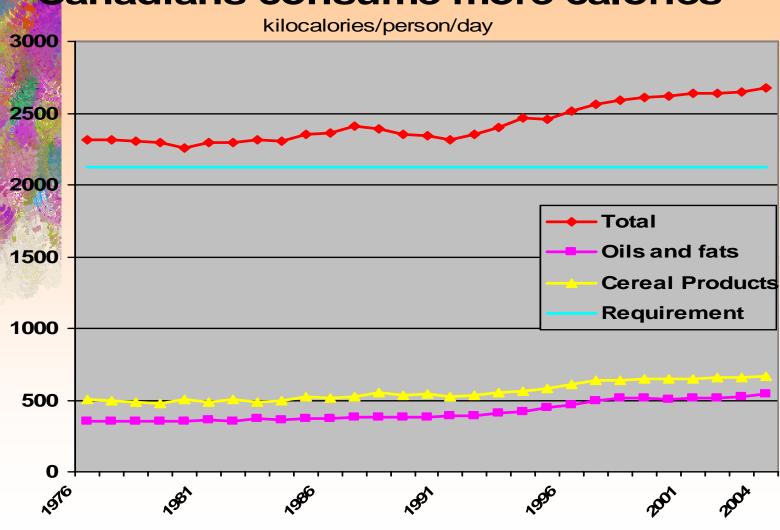
- Truly want actual food consumed, not available
- Adjust for losses at consumer and retail levels
 - Institutions, restaurants and households
 - Storage losses
 - Food preparation losses
 - Plate losses
 - By specific food over time
- U. S. factors –minor adjustments
- In cooperation
 - Agriculture and Agri-Food Canada
 - Health Canada



= Experimental - use with caution

Energy

Canadians consume more calories



In the 1990s calorie consumption and obesity rose more quickly **Energy Index** (1978 = 100)Obesity index (1978/79 = 100)





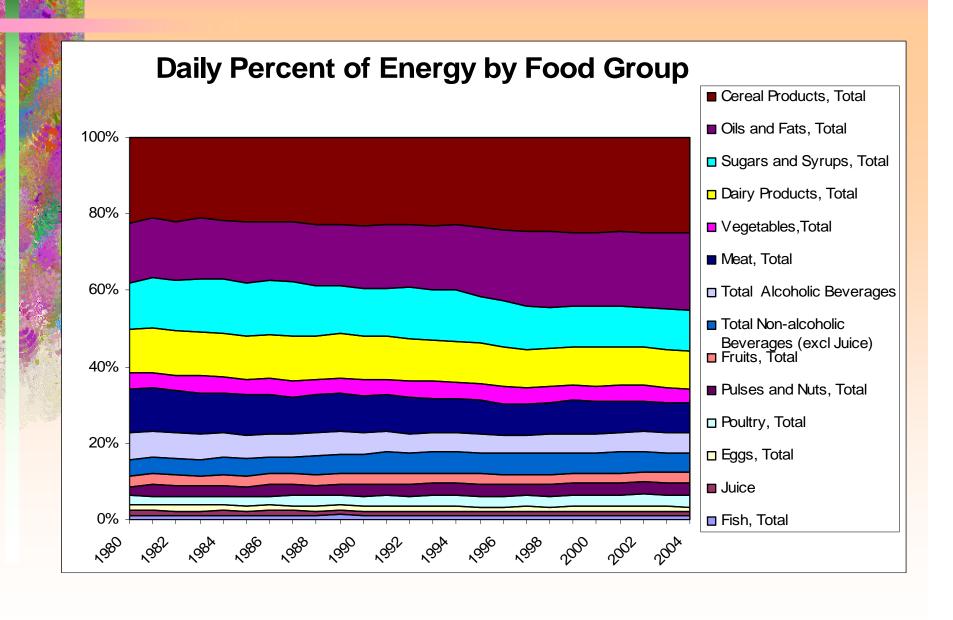
•More than needed = 1 large cookie, latte, small fries

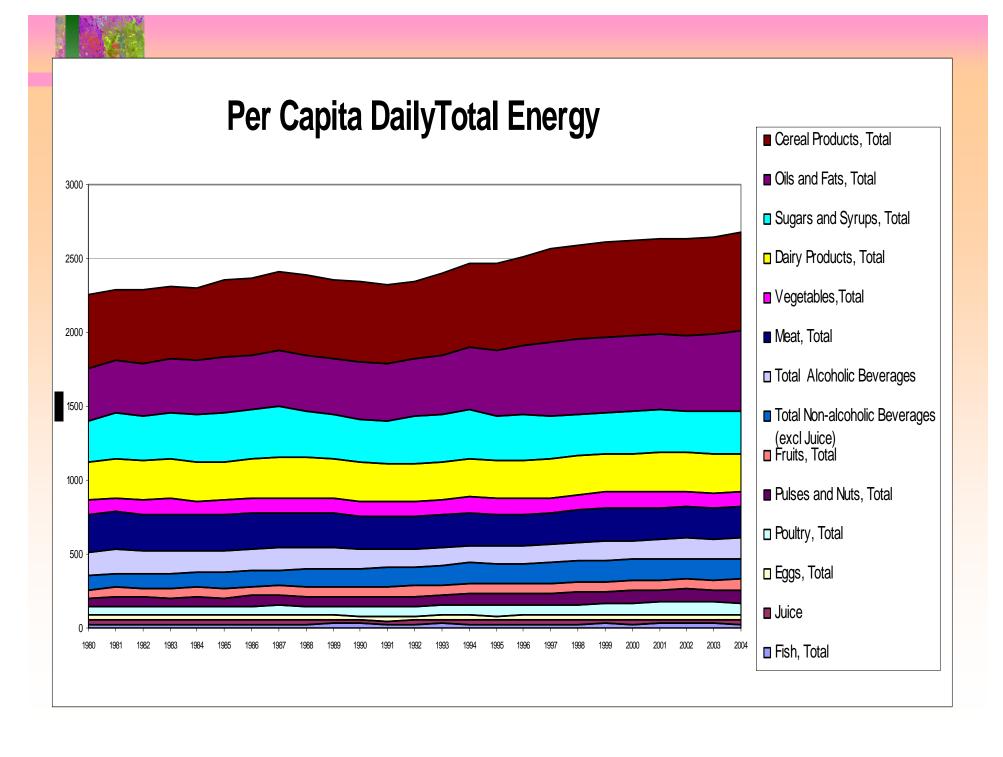
• Increasing –most foods

- •Oils & fats –reviewed, confirmed (more = arbitrary)
- •Cereals
- •Numerous contributors cumulate

•Overweight and obesity is on the rise

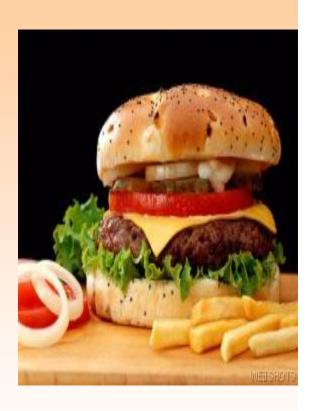
- •2004 = 23.1% obese & 36.1% overweight (59.2%)
- •Obesity up 67% since 1978
- •25% of Canadians moved up a notch from 1994 to 2002



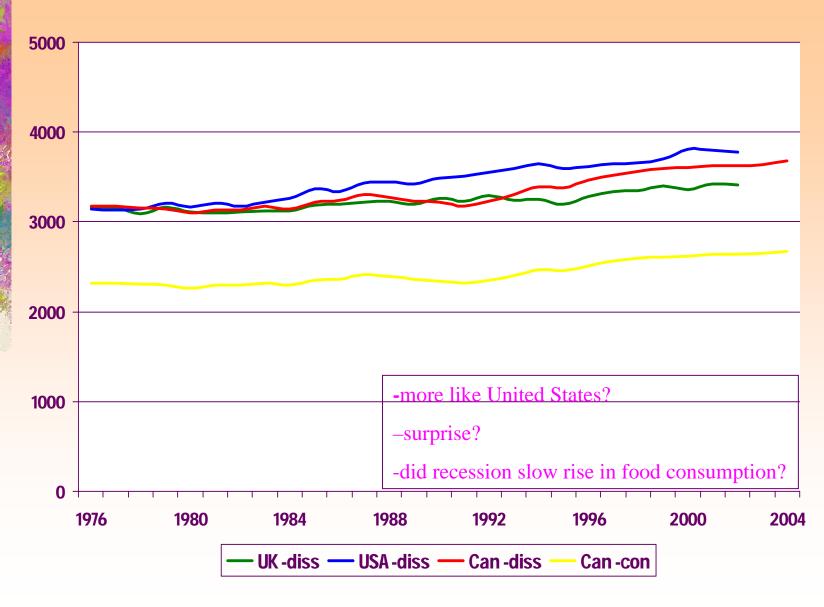




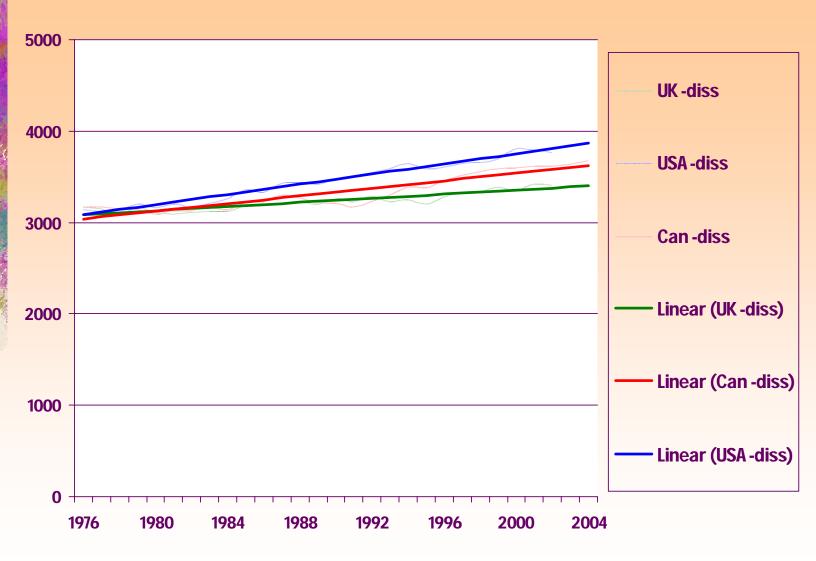
- •Linked to rising fast food sales
 - •Turn to restaurants (fast-food) coming out of recession
 - •Busy parents, kids are happy
 - •Cheap calories
- Portions are larger
 - •Supersize it please (cheap)
 - •Burgers, fries and a soft drink = 1,200 to 2,100 cal
- •Should be noticeable in many communities
 - •More drive-thrus since the early 1990s
- •Pre-packaged or partially cooked food



Energy -international











- Perhaps 14% change seems high
- Perhaps the level seems high
 - Model over time and by source = value
 - Surveys are more robust than models
 - Intend to benchmark to nutrient data from Canadian Community Health Survey
- But the message is simple and clear

Canadians are consuming significantly more calories!



- It is all about balance
 - Increase in energy consumption is good if more calories are needed

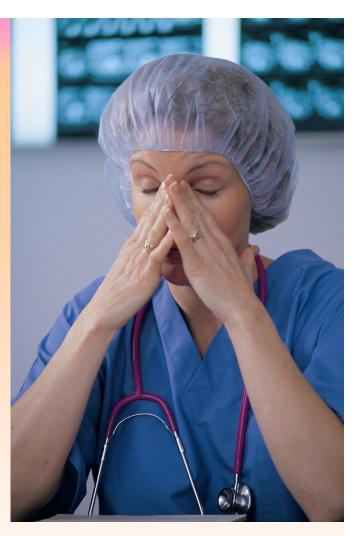


- Enough exercise to compensate???
 - Running = 670 kcal/hour
 - Biking = 440 kcal/hour
 - Walking = 300 kcal/hour





- Canadians are more obese
- early warning of weight to come
 - Gain is cumulative & takes many years
- Rising consumption = future health risks
 - To individual
 - On health care system
- World Health Organization
 - Identified obesity as major health problem





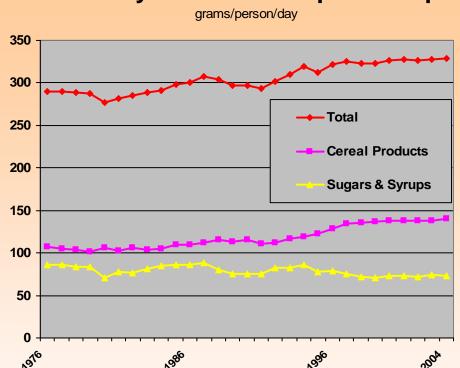
Ideal energy source

On the rise

More than required (130)



Carbohydrates consumption is up



Mostly from cereal products

Note: Syrups do not include corn syrup

- Wheat
- Pasta, breads, snacks

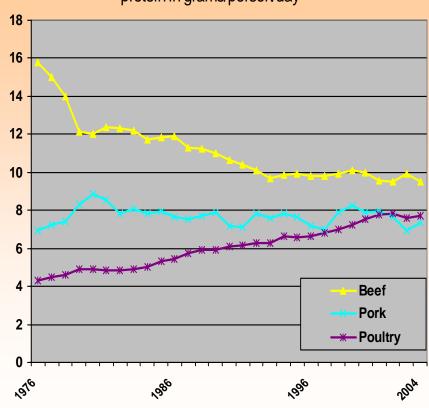


Proteins



BSE impacts trends

protein in grams/person/day

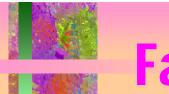


Increase over time modest (+7%)

- > needed
 - Need 45 -get 76

Source is changing

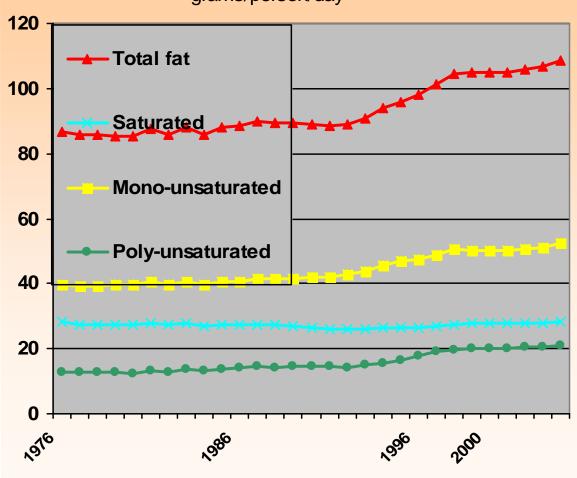
- More poultry, less beef
 - Easy to prepare products, \$
- More cheese, less milk
 - pre-packaged, fast foods
- Fish
 - Up a little



Fats

Fat consumption on the rise

grams/person/day



- Up 22 % since 1990
 - 2 sources = same
- Needed
 - Easy to obtain
 - Need 65, get 109 g/p/d
- Contributor to energy increase
 - Energy dense
 - 9 cal/gram
 - Vs 4 cal/gram
- Risk of disease
 - Heart
 - Cancer
 - Diabetes

Vitamins

More food = more vitamins





Vitamins

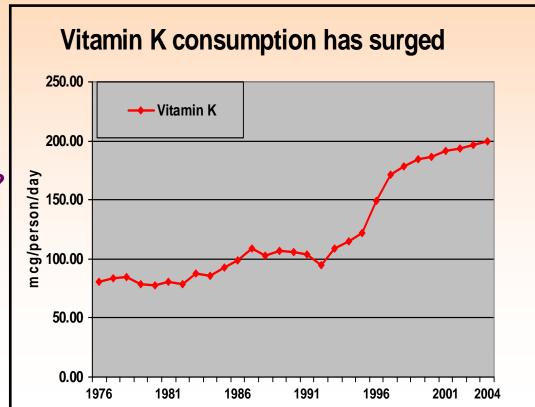
generalizing =caution

- Vitamin A
 - Fat-soluble
 - Plentiful ~ 2 X the required amount
- B Vitamins
 - Water soluble
 - > required
- Vitamin C (scurvy)
 - Water soluble
 - Intake more than required and rising



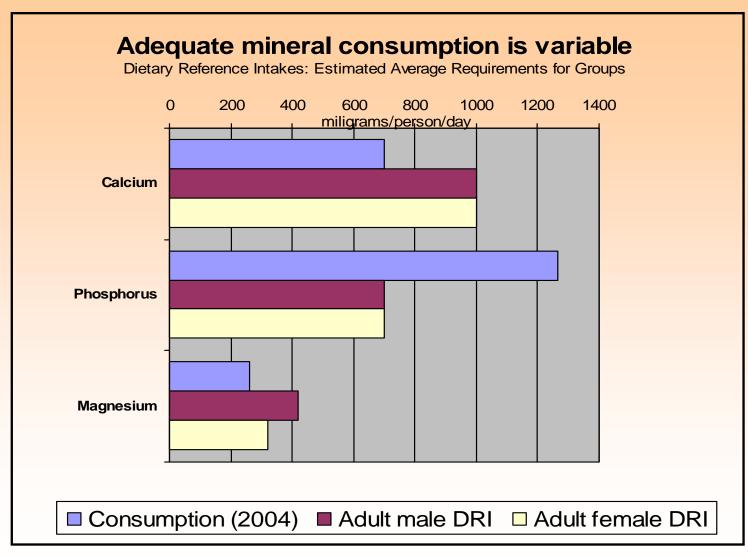


- Vitamin D (sun)
 - Fat-soluble
 - Declining
 - Dairy is an important source
- Vitamin E
 - Fat soluble
 - Increasing –sufficient?
- Vitamin K
 - Fat-soluble
 - Intake more than required and rising





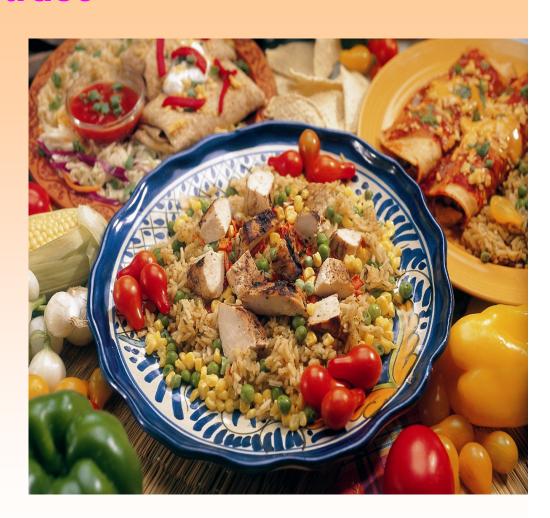
Minerals





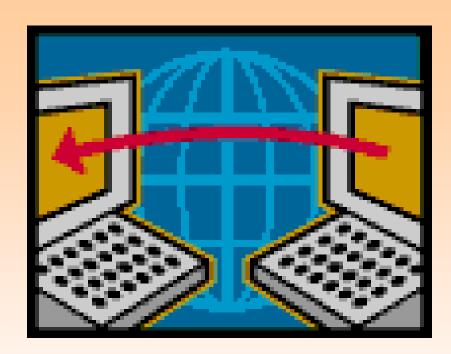


- Iron
 - Up
 - sufficient?
- **Zinc**
 - Stable
 - Close
- Copper
 - Slow increase
- Manganese
 - plentiful





- @ www.statcan.ca
 - Part for free
- Downloadable for fee
 - Fully functional version



- Benchmark to nutrient data from Health Division
 - Consider smoothing?



- Food = broad interest
 - specific interest to governments
 - health link
 - public good (mostly)
 - Base funded by redirecting resources
- Data are needed -gaps
 - trend and level estimate
 - by source
 - complimentary
 - Part of the mosaic
- AAFC & HC = important clients
 - Linked back to SW0T exercise
- Low cost, high quality service
 - Motivated staff





Canada Food Stats - relevant, public, free

 In summary, the food data set is highly relevant, reliable and somewhat timely – it can be delivered to Canadians via the Internet in a cost-efficient manner to provide an excellent public service.