NTFP’s

Non-Timber Forest Products

- Sometimes Non-Timber Forest Resources
  - Incorporates services
- Some have great economic value
- Some are recreational or for personal use
- Some are spiritual
- Some are medicinal
- Some definitions include animal products such as fur and meat
  - We are not going to include

Mushrooms

- Often recreational for personal use
- Usually unregulated
  - This can be a problem
  - Raking the forest floor not allowed
  - Whether a permit is needed depends on type of Crown land (TSA's vs TFL's)
- Very weather/season dependent

Personal use - Morels

Chris Schnepf, University of Idaho, Bugwood.org

Personal use - Morels

Chris Schnepf, University of Idaho, Bugwood.org

Commercial use

Chris Schnepf, University of Idaho, Bugwood.org

Cultivation - Shiitakes

Joseph O'Brien, USDA Forest Service, Bugwood.org

Cultivation - Shiitakes

Joseph O'Brien, USDA Forest Service, Bugwood.org

Berries

- Most need bright sunlight to survive and to increase sugar content
  - Clearcuts
  - No herbicides
- On Crown lands same rules as mushrooms
- Many have special First Nations uses
- Has be used as a sustainability indicator

Berries

Chris Schnepf, University of Idaho, Bugwood.org

Floral greens

- Such as salal
  - Most are evergreen
  - Must be high quality (no fungal spots)
  - Must be in close proximity to cities for a major market
  - Usually hand cut

Collection of NTFP can be harmful to the ecosystem

- Historic collection of pine straw in Europe led to serious decline in soil nutrients
  - Reduced tree growth
- Pine straw can be collected in a sustainable way

Pine straw

USDA Forest Service
Southern Research Station ,
USDA Forest Service, SRS,
Bugwood.org

David Dickens,
University of Georgia,
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Pine straw

David Dickens, University of Georgia, Bugwood.org

Christmas trees

- ‘foraging’
  - Need a permit
  - Limited areas
  - Free, but 3 per family
- ‘cut your own’ lots
  - Private land
- Commercial production

Commercial Christmas tree crops

- The total U.S. crop in 2004 was valued at $506 million
- The total Canadian crop in 2004 was valued at $62 million
  - Most in Quebec and Ontario exported to the U.S.
- Very capital intensive
  - Pesticides
  - Shearing

Which is most sustainable?

- Artificial
  - Depends on materials and how many years you use it
- Cut
  - Depends on cultivation methods and transportation
  - How disposed
- Live
  - Small, but growing market

Commercial Christmas tree crops

David J. Moorhead, University of Georgia, Bugwood.org

Commercial Christmas tree crops

Bill Cook, Michigan State University, Bugwood.org

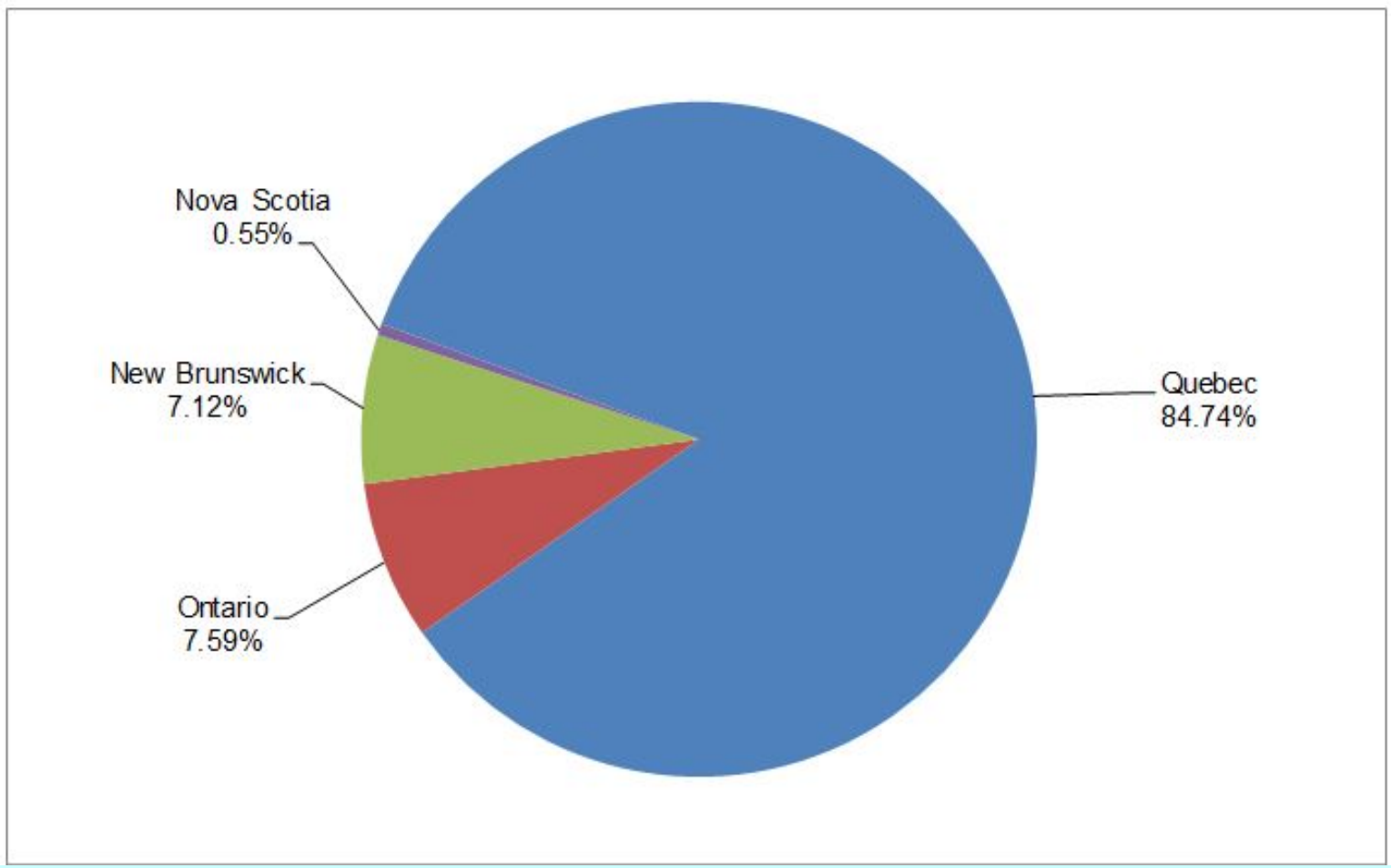
Maple syrup (sugar)

- Syrup collected from maple trees
  - Almost exclusively *sugar maple*
  - Sometimes birch is used (rare)
- Water content reduced
  - Boiling
  - Reverse osmosis
- Can be made into other products
  - candy

Maple syrup

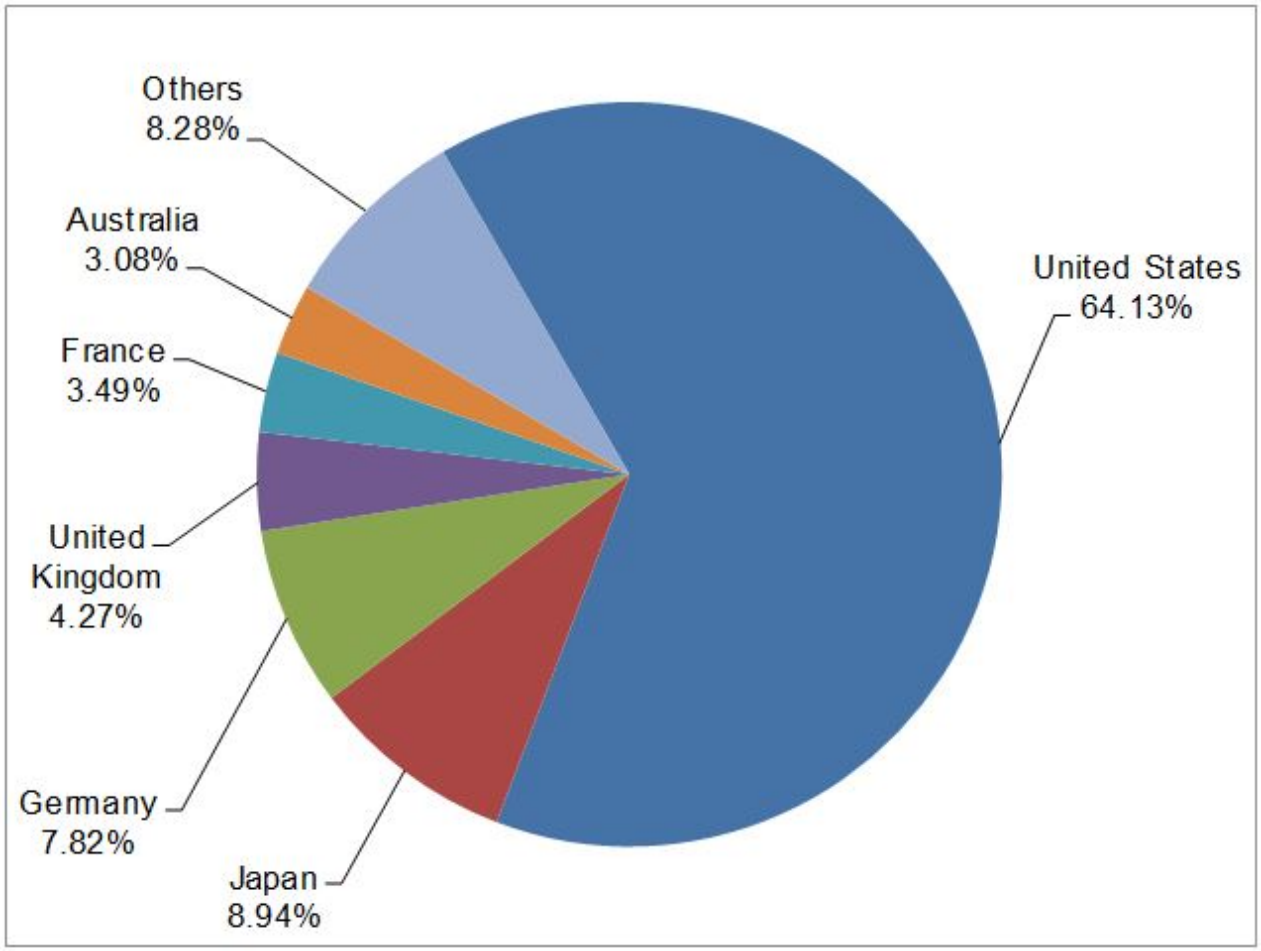
- How much sap does it take to get 1 litre of syrup?

Market share by province



Source: Statistics Canada (CANSIM Table 002-0001

Export destinations



Source: Statistics Canada (CATSnet June 2014)

Maple products farm cash receipts by province (in Can$(000))

	2009	2010	2011	2012	2013
Nova Scotia	1,033	1,525	1,660	1,394	2,216
New Brunswick	22,229	18,618	21,726	20,396	28,889
Quebec	343,697	249,201	290,980	265,690	343,576
Ontario	25,613	19,204	32,476	14,511	30,786
Canada	392,572	288,547	346,841	301,991	405,467

Source: Statistics Canada (CANSIM Table 002- 0001)

Historic

T. Davis Sydnor, The Ohio State University, Bugwood.org

Modern

Photo by

Shadow Hill Maple Syrup
ONTARIO, NY

Wood carving

- Wood properties are important
- Sometimes special features such as burls are included
- Both hobby and cottage industry

Wood carving

Billy Humphries, Forest Resource Consultants, Inc., Bugwood.org

Jamie Welsh, Bugwood.org

Cedar bark stripping

- Important for many First Nations
- Strips are woven into many products
- Bark stripping often has communal/family meaning
- Traditionally was done in a way that did not kill the trees (2 hands width)
  - Led to what is now known as ‘culturally modified trees’
- Can be done in areas designated for timber harvest

Cedar poles for carving

- Totems
- Canoes

Traditional dyes

- Many types of plants
- lichens

Chris Schnepf, University of Idaho, Bugwood.org

Medicines

- Traditional
- Modern antibiotics