

Tree Saps

Presentation by

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Wood Based Industries

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Wood Based Industries - Overview

- Money grows on Trees
- Wood based Panel Products
- Panels for use in Construction
- Recycled Wood
- Forest Certification Schemes
- Case Study of Industry Profile
- Measurement & Management
- Eco-friendly green materials
- Advandages of Wood
- Raw Materials for Panels
- Environmental Aspects
- Environmental Profiles
- Logging
- Illegal Loging
- Solid Timber

Panels for Building Construction

- Panels for Windows & Mouldings
- Beams for Buildings
- Particle Boards
- Cladings
- Door Skins
- Plywood
- Flat Roof Decking
- Code of Practice
- Designing
- Selection of Panels
- Pitched Roofing



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Wood Based Industry

What trees give off sap?



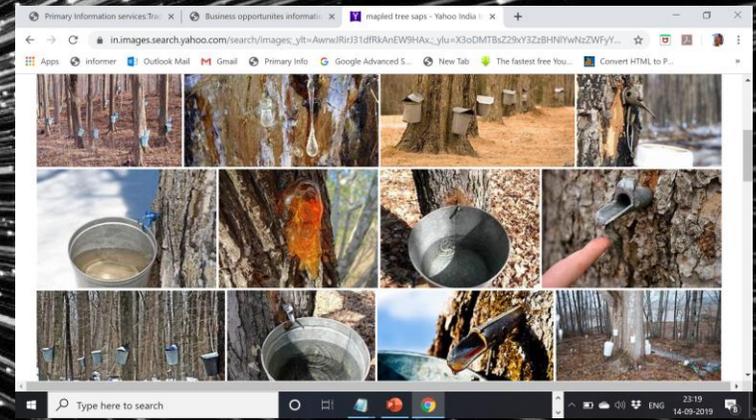
Part of the *Aceraceae* family, maples produce an excessive amount of sap; it's this sap from sugar maples (*Acer saccharum*) that is harvested for maple syrup.

Trees Drip Sap

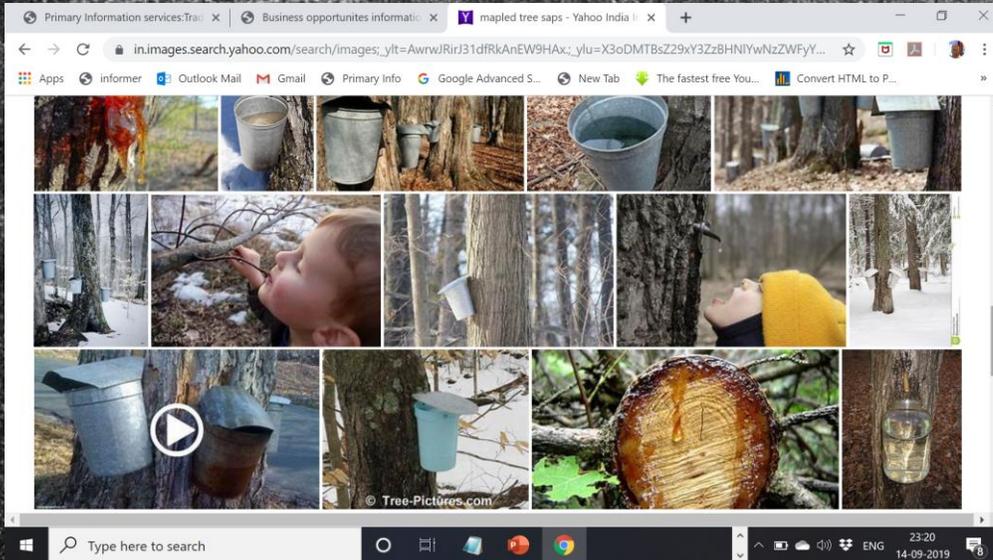


About Tree Sap

Filled with nutrients and minerals, sap is the blood of a tree. It carries energy out into the branches when new buds are forming in spring-time. It comes in many forms; it can be that stuff that gets on your clothes and sticks to your car, or it might be perfect drizzled over pancakes



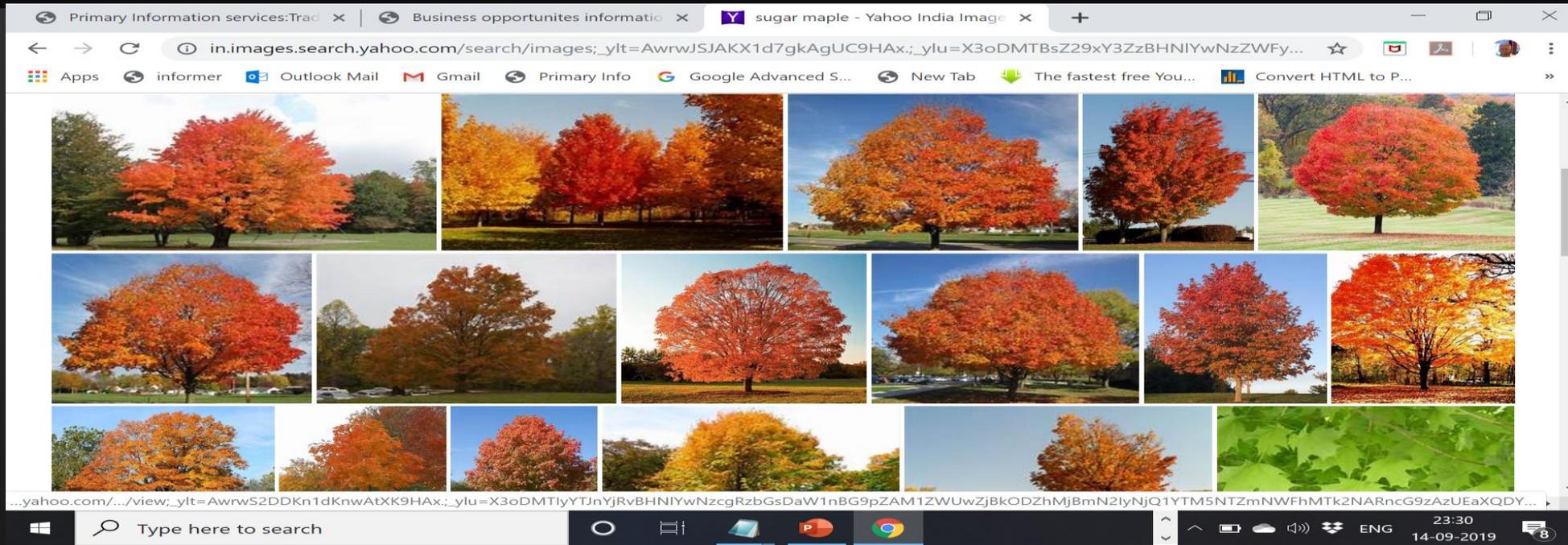
What is the purpose of tree sap?



Resin and Sap Function

Tree sap functions to transport vital mineral nutrients and sugars to all living parts of the tree. Because it is largely water, sap also serves to maintain turgor pressure. During the growing season, water continually flows from the tree's roots, up through the xylem and to the leaves

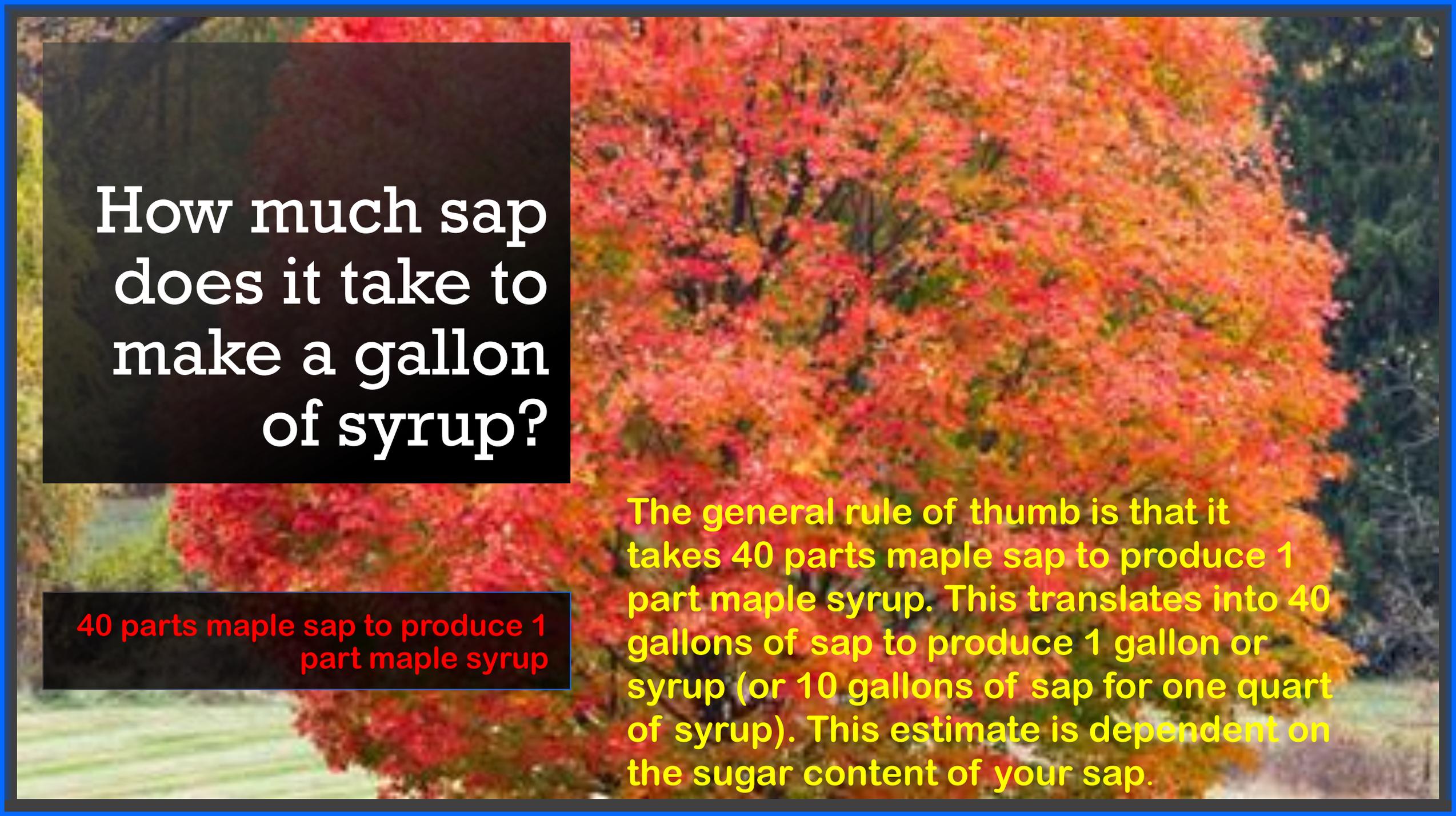




**What trees
produce the
most sap?**

The sugar maple

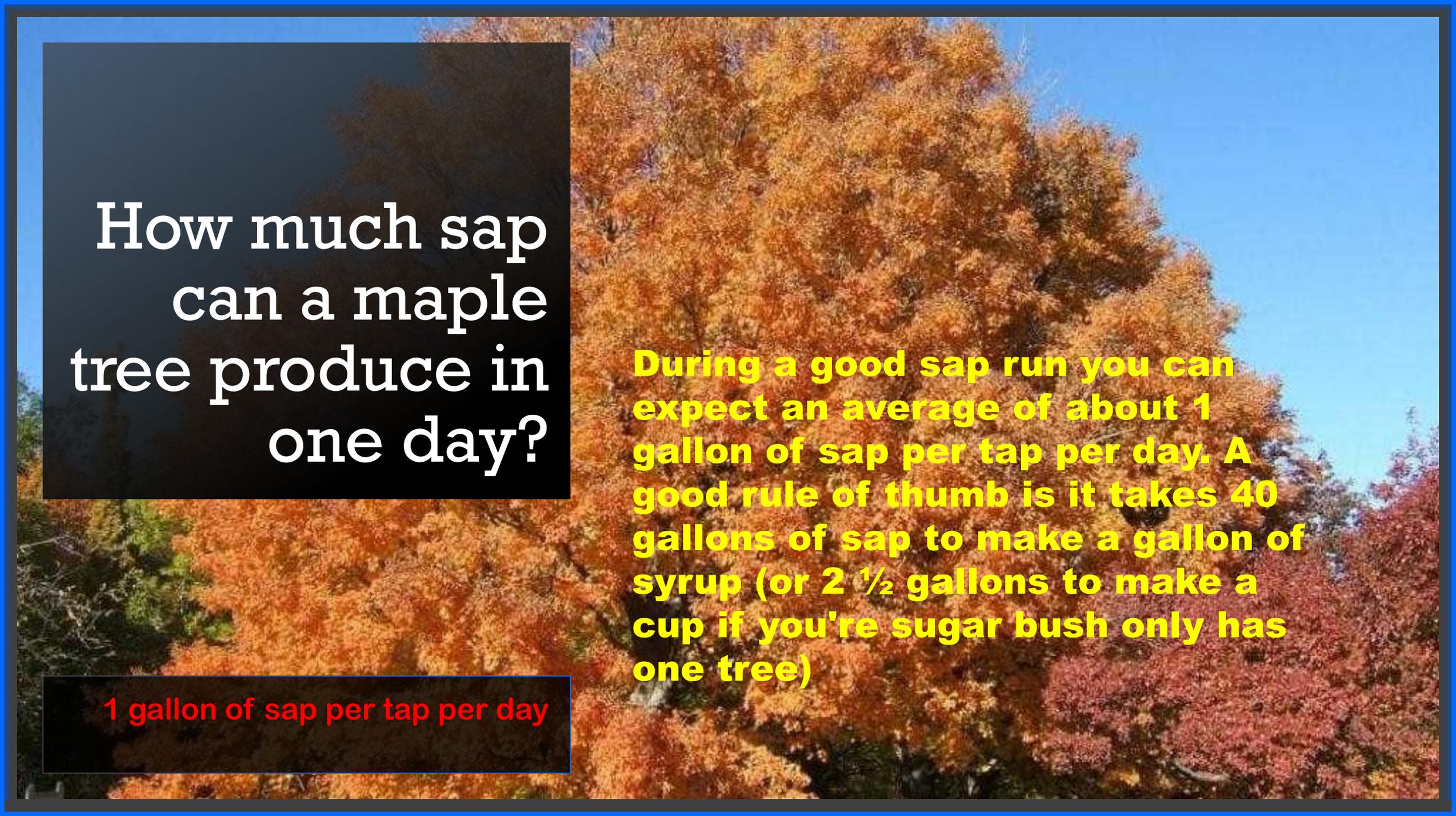
The sugar maple yields the highest volume and concentration of sap, making it a superior candidate for tapping. Its sugar content is approximately 2.0%. Black maples produce as much sweet sap as sugar maples. The trees closely resemble sugar maples and can be distinguished by their leaves.



How much sap
does it take to
make a gallon
of syrup?

40 parts maple sap to produce 1
part maple syrup

The general rule of thumb is that it takes 40 parts maple sap to produce 1 part maple syrup. This translates into 40 gallons of sap to produce 1 gallon of syrup (or 10 gallons of sap for one quart of syrup). This estimate is dependent on the sugar content of your sap.



How much sap
can a maple
tree produce in
one day?

During a good sap run you can expect an average of about 1 gallon of sap per tap per day. A good rule of thumb is it takes 40 gallons of sap to make a gallon of syrup (or 2 ½ gallons to make a cup if you're sugar bush only has one tree)

1 gallon of sap per tap per day



What percent
sugar content is
raw maple sap?

1 to 5 percent sugar

Maple sap is a dilute solution of water and sugar, along with traces of other compounds. The proportions are variable but usually fall within the following limits: 95 to 99 percent water and 1 to 5 percent sugar.

**Who makes the
most maple
syrup in the
world?**

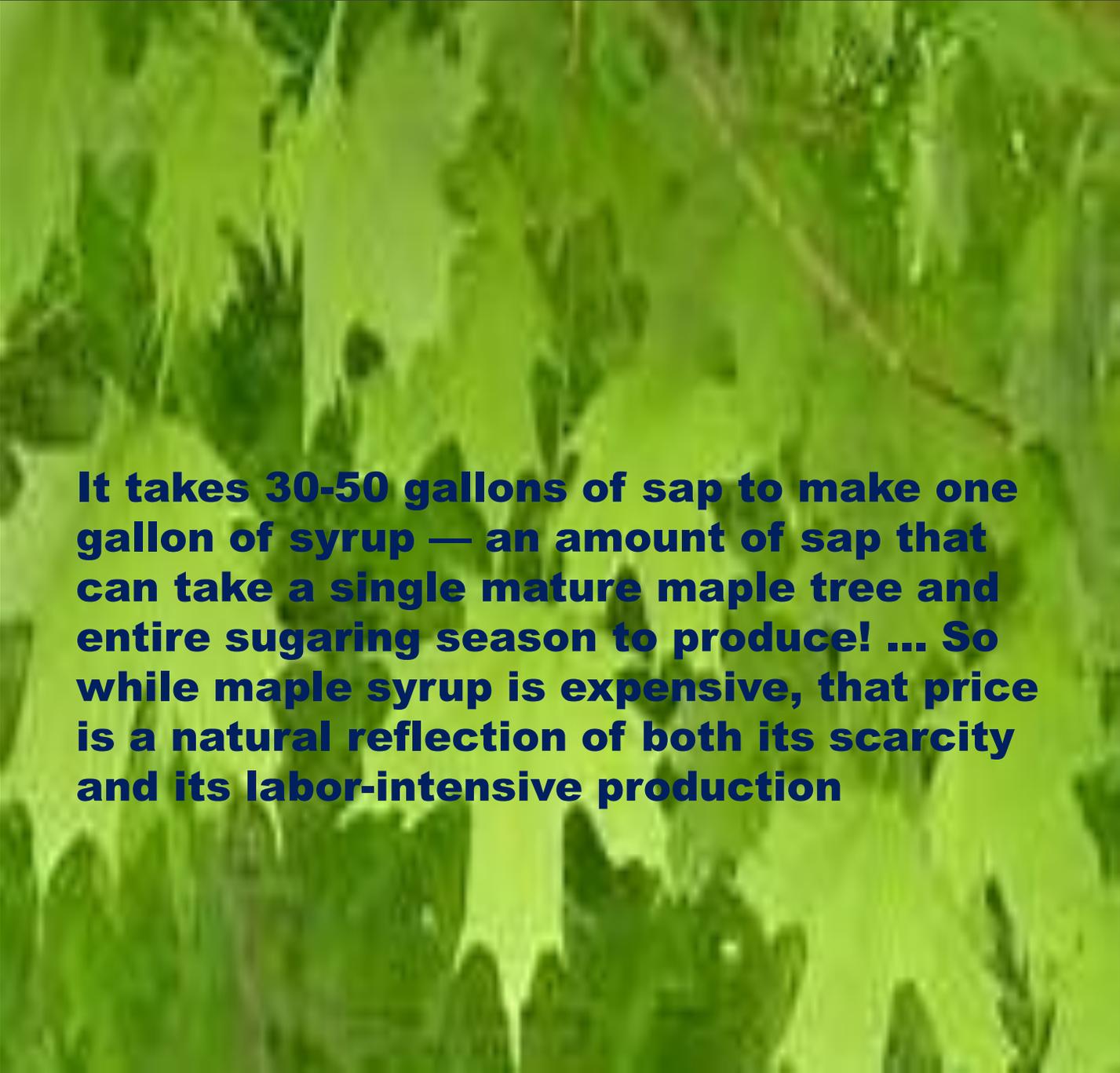
Vermont USA



Vermont consistently produces the most maple syrup in the United States, producing more than half a million gallons each year. Quebec is by far the largest producer of syrup in North America with production exceeding 6.5 million gallons

Why is maple syrup so expensive?

**30-50 gallons of sap to make one
gallon of syrup**



**It takes 30-50 gallons of sap to make one
gallon of syrup — an amount of sap that
can take a single mature maple tree and
entire sugaring season to produce! ... So
while maple syrup is expensive, that price
is a natural reflection of both its scarcity
and its labor-intensive production**

Is maple syrup healthy?

nutrients like riboflavin,
zinc, magnesium,
calcium and potassium

Yes, pure maple syrup is not only high in antioxidants, but every spoonful offers nutrients like riboflavin, zinc, magnesium, calcium and potassium. According to Helen Thomas of the New York State Maple Association, maple syrup has a higher concentration of minerals and antioxidants, yet fewer calories than honey.



Is tree sap edible?

Some trees produce bitter or even poisonous sap. Plus, even edible sap licked directly from the tree is not very tasty. However, the next time you drizzle maple syrup on your waffles, just remember that it comes from tree sap

Maple Syrup



Is tree resin the same as SAP?

Sap is more of a liquid that is less viscous than honey.

Resin is a sticky solid form of secretion that is highly valued for their chemical properties and associated uses.

Sap is made of sugar and water carried in the xylem and phloem cells of the trees. ...

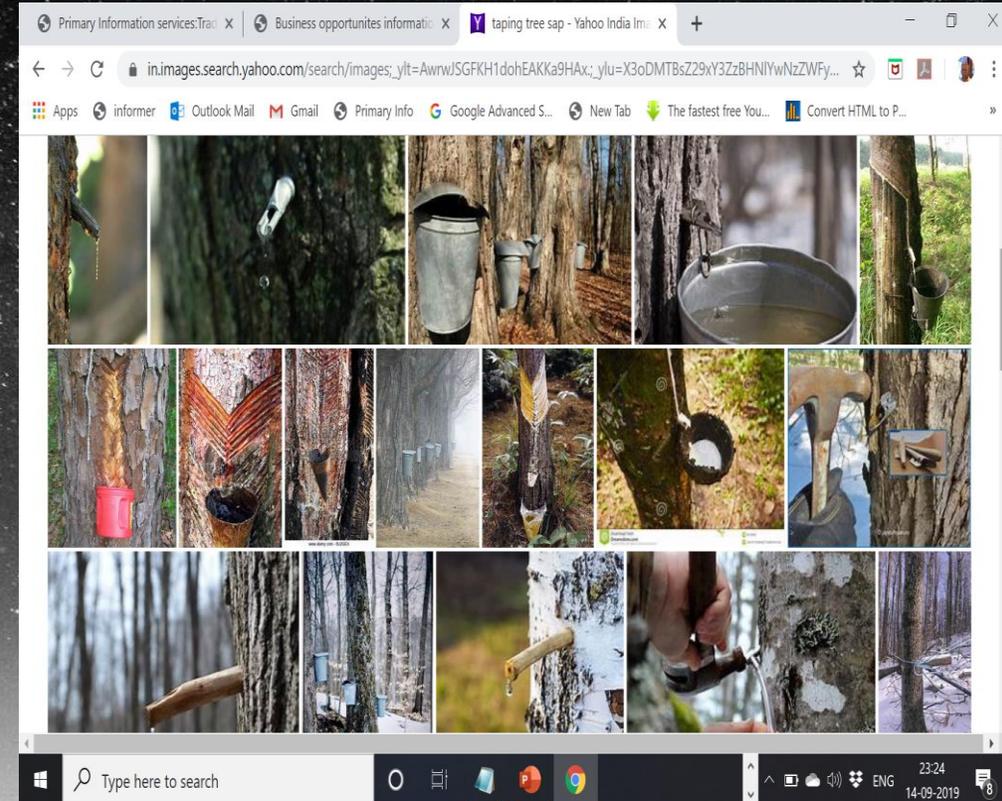
SAP & RESIN

Resin is a liquid found in the outer cells of the trees



How do you get tree sap?

To collect the sap, you could even just walk around and find pine trees which have broken branches. The sap will have oozed out on its own and crystalized. Pick off the pine sap crystals and put them in a metal container. A faster method of collecting pine sap is to tap the tree





Thank You

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