



The green lungs of our Planet

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Forests are the green lungs of our Planet



Our project is very important and relevant

We recall that

- **Forest is oxygen, the lungs with which we breathe.**
- **Forest helps us to restore our physical and psychological strength!**
- **Saving the forest today – we think about the future of our children and grandchildren!**
- **Without forests there will be no life on the Earth!**

Project aim:

to draw attention to the
problem of preserving the
forests on our planet



Project objectives:

1. Collect and study material on the forest resources of our planet.
2. Collect the solid facts to attract to the forest problem.
3. Find out what is happening on our planet for the salvation of the forest.
4. What is our students' work on this issue?
5. Gather information for the quiz «The Christmas Tree».
6. Create photo collage «What do we know about the trees of our planet?»
7. Make a leaflet «Take care of the forest!»

The value of forests for humanity



1. Forest is the lungs of the planet, excellent biological air filter.

2. Forests influence the weather.

3. The regulator of natural processes.

The value of forests for humanity



4. Forest plays a large role in the water cycle.

5. Forest allocates phytoncides, which kill disease-causing microbes, improve the air and health of people.

The value of forests for humanity



6. Forests play a major role in the development of the economy.

Directions of use:

- **The source of food (mushrooms, berries, animals, birds, honey);**
- **The source of energy (firewood);**
- **Building material;**
- **Raw materials for production (paper production).**

The value of forests for humanity



7. The forests are the health resort, decoration of the landscape, sources of pleasure and health.

The value of forests for humanity



Interesting facts speak for themselves



- **Forests occupy about 30 % of the land area. It is more than 4 billion hectares of land.**
- **1 hectare of forest absorbs 6-7 tons of carbon dioxide and highlights 5-6 tons of oxygen in a year.**
- **1 hectare of forest filters up to 50-70 tons in a year.**

Sad facts speak for themselves



- For 10 thousand years have disappeared from the face of the Earth for about 2/3 of all trees.
- 22 % of undeveloped forests left in Russia and 26% in America.
- 13 million hectares of forest are lost each year, whereas only 6 hectares grow.
- This means that the forest disappears every second as well the size of a football field.

How much forest is left ?



**About 3 billion hectares
of land**

**International world
resources Institute received a
map of the state forest planet
for the last 8000 years.**

- © **What's left? There are the
three major forests: in
Russia, in Canada and
Alaska and in the tropical
forest in the North-West of
the Amazon basin.**

How to save forests?

International WRI developed a new approach to the use of forests:

- ◎ **1. Collection necessary information on the state of forests;**
- ◎ **2. The creation of a system of payments for use of forest resources;**
- ◎ **3. The creation of a system of measures to improve the condition of preserved forests on the planet.**

How to save forests?

- ◎ International WRI recommends each state:
- ◎ 1. Protect undeveloped forests;
- ◎ 2. Save at least two «variants» of each type of forest ecosystems;
- ◎ 3. Establish land use in the territory;
- ◎ 4. Try to restore forests.



How to save forests?

Ecologists suggest many ways:

- ◎ 1. The transition from paper to electronic;
- ◎ 2. The collection of waste paper and separate gathering of garbage;
- ◎ 3. Establishment of forest farms, which will be planted trees;
- ◎ 4. A ban on logging in protected areas and tougher penalties for it;
- ◎ 5. Increase of the stamp duty on the export of wood abroad.



How to save forests?



Different information from the Internet:

6 simple and necessary rules

- 1. Follow the rules of fire safety.**
- 2. Don't engage in deforestation. This is a crime.**
- 3. Don't leave household and construction debris in the woods.**
- 4. Don't encourage poaching .**
- 5. Teach children to love and protect nature.**
- 6. Participate in cleanup and volunteer programs, plant trees.**

How to save forests?



Children take part in ecological marathon «The Earth is a planet of life», create projects «How to help the forest?»

- ◎ Develop places of mass rest of people.
- ◎ Don't litter.
- ◎ Plant flowers and trees.
- ◎ Create places for kindling fires.
- ◎ Establish collection points.
- ◎ Enclose the existing anthills.
- ◎ Inform the population.
- ◎ Make flyers and fire stands.

How to save forests?



The Kemerovo region took part in the action «Save the Christmas tree».

- ◎ **The life of Siberian spruce is about 250-300 years.**
- ◎ **Age Christmas trees - 10 to 15 years.**
- ◎ **1 hectare of coniferous forest clears up to 50 tons of dust.**
- ◎ **Yearly, more than 15 thousand trees are cut in the New Year.**
- ◎ **It is more than 7 million trees in Russia.**

How can we replace the Christmas tree for New Year Celebration ?



- ◎ In one school conducted a survey:
- ◎ 68 families put the Christmas tree.
- ◎ 22 families decorated the house with fir branches.
- ◎ 98 families put artificial spruce.
- ◎ 10 families made the Christmas tree themselves.
- ◎ 130 trees were saved by our families. It is a whole forest!

How to save forests?



Ecologists and activists of Kuzbass contributed:

- ◎ **1. Spending exhibitions, film screenings, flash mobs;**
- ◎ **2. handing out leaflets on the streets not to cut or buy a live Christmas tree, but to buy artificial fir-trees.**

What kind of Christmas tree would you like to choose?



But after the holiday we see a sad picture - everywhere already thrown green beauties. There is another way - a decorative tree in a pot.



Take care of nature!



Take care of yourself!



Plant a tree!



PHOTO COLLAGE:

WHAT DO YOU KNOW ABOUT TREES?

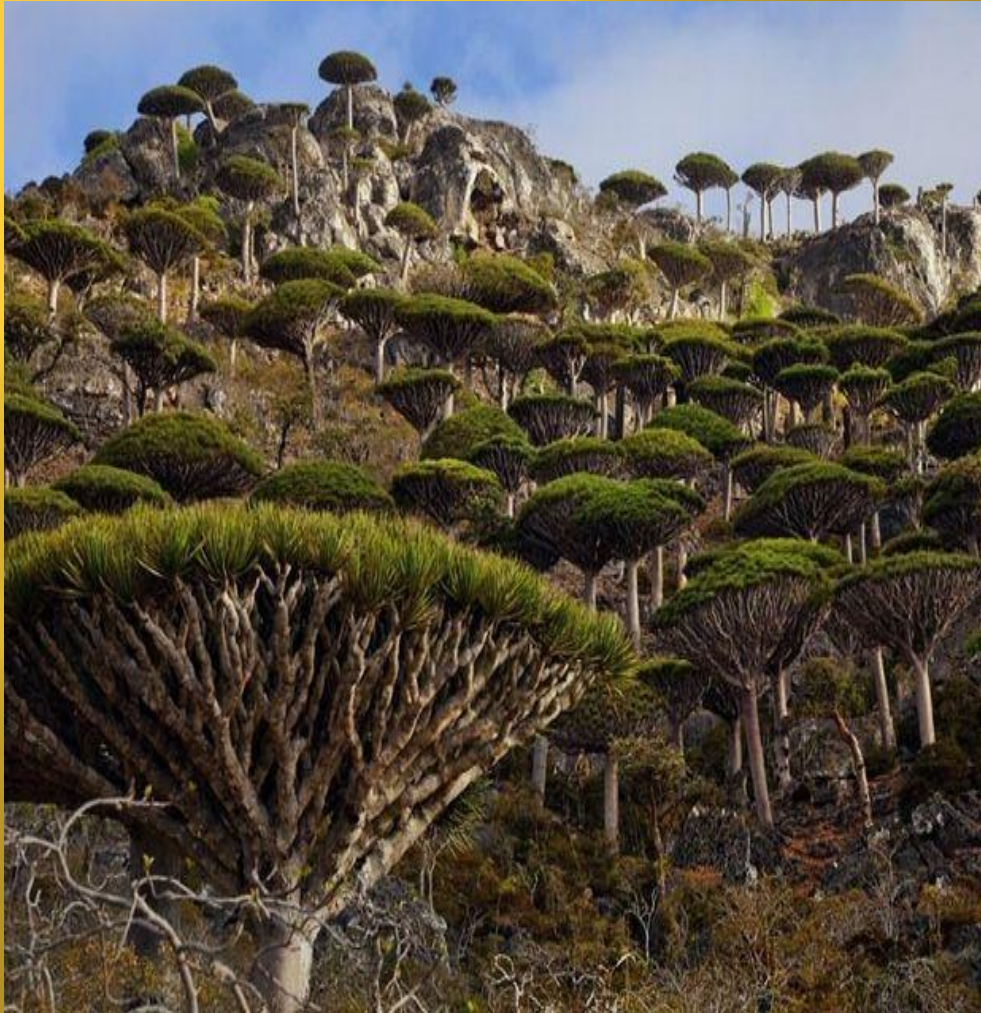
Top - 10 the oldest trees on the planet

1. Spruce Tikko, 9500 thousand years



**The oldest Spruce
grows on
mountain
Fulufyallet in
Sweden.**

**2. Dragon Trees, 7-9 thousand years,
the Arabian Sea, the island of Socotra**



**A giant
cactus**

**«Dragon's
blood»**

**3. «Zoroastrian SARV»,
4-4,5 thousand years, Iran**



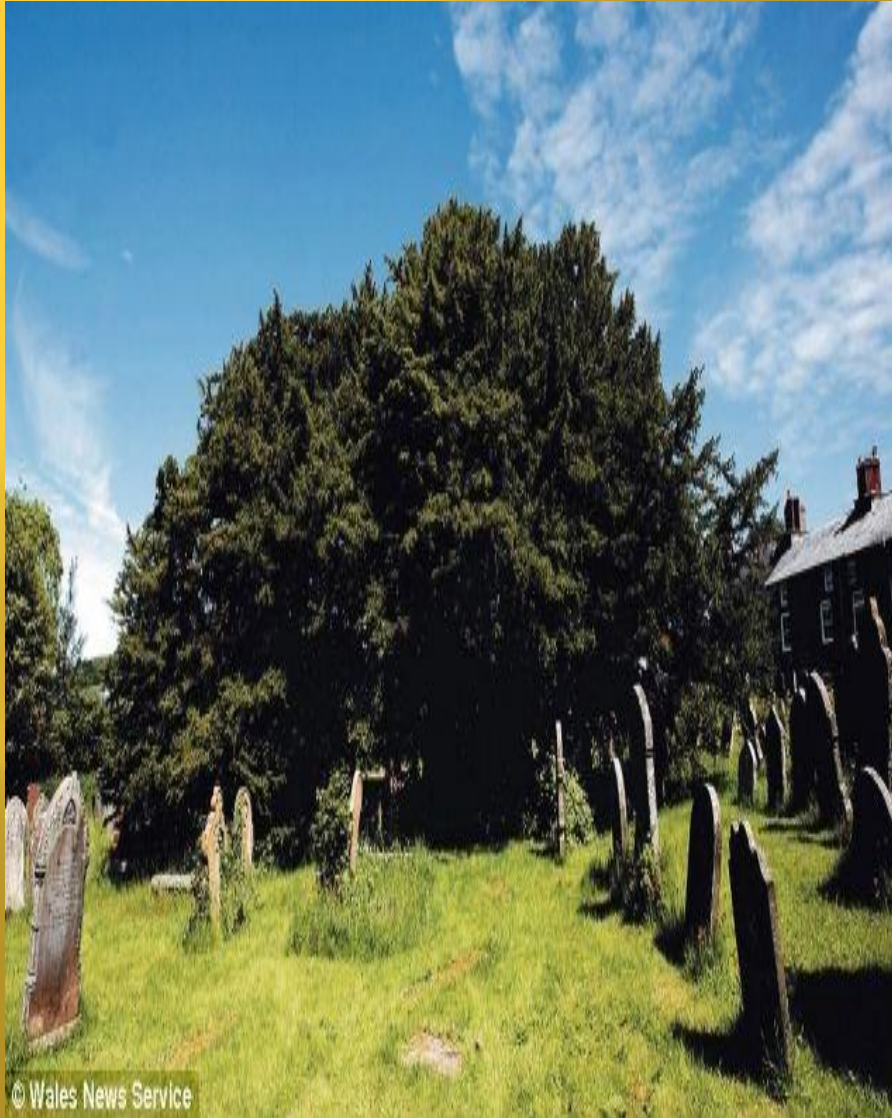
**A giant cypress
with height of
25 meters and
18 meters in
circumference**

4. «Tree of a hundred horses», from 2 to 4 thousand years, Sant' Alfio, on the slopes of mount Etna in Sicily



The oldest chestnut in the world is just 8km from the active volcano Mount Etna.

5. Tree Yew from the village Hangery, 4000 years, North Wales



**An old, old yew
with an evil
spirit on the
territory of the
small church**

6. Pine Methuselah, 4000 years,
National Park, California



Bristol Pine
is named after
the oldest biblical
character.

**7. General Sherman, 2300-2700 years,
the USA, National Park «Sequoia»**



**A giant tree,
the oldest and
tallest on the
planet**

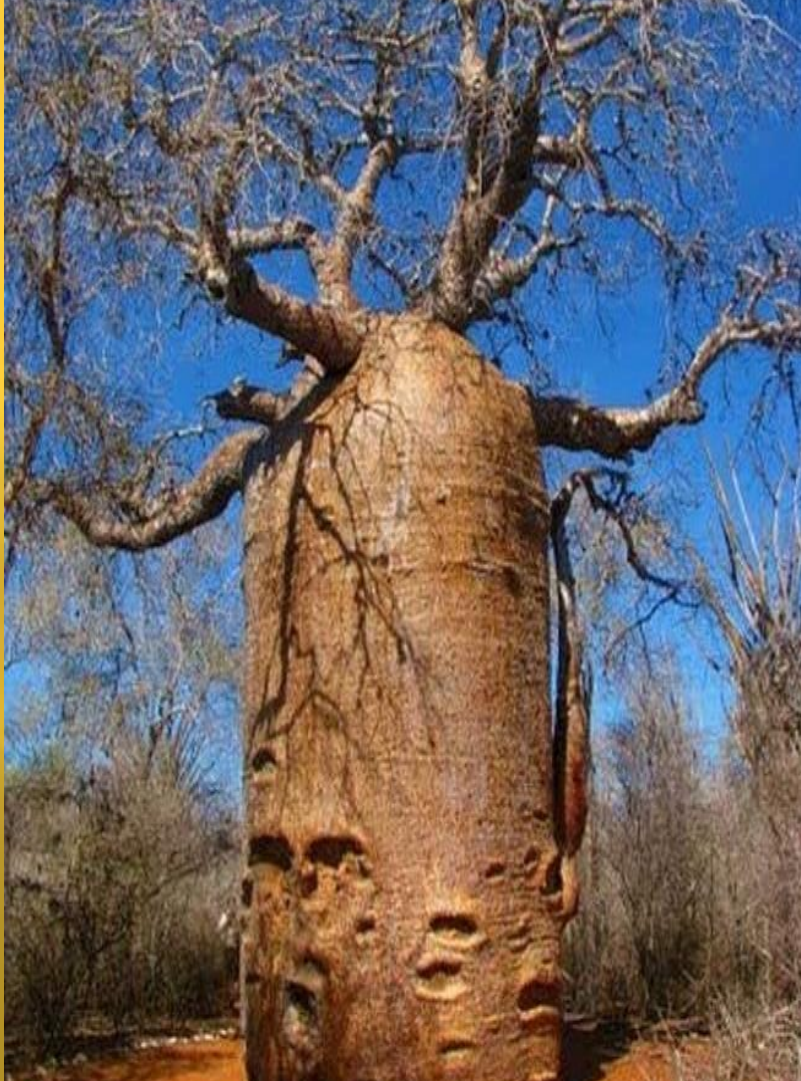
**8. Strashensky Sycamore tree,
2000 years, Nagorno-Karabakh**



**In local language
it is called Tnjri.**

**The ancient
sycamore tree
was considered
«The tree of
life».**

**9. Baobab «The kettle Ifati»,
1,200 years, Madagascar, Toliara**



**It is called
«Teapot» because
of the, which
accommodate 117
thousand liters of
water.**

**10. Oak Barthorp, 1200 years,
Manthorpe, East, UK**



**It is one
of the oldest
oaks
in Europe.**

Trees - dwarfs

Herbaceous willow, **Arctic**



The smallest tree on the planet is a 6 centimeter dwarf willow.

Bonsai, China and Japan

Bonsai is the art of growing an exact copy of this tree in miniature.



Trees of Russia

Symbols of Russia

BIRCH



LARCH



Conifers

PINE



THE SIBERIAN SPRUCE



Oak



Willow



Trees donors and vampires

Birch



**Birch focuses
energy and
attention,
perfectly
ionizes the air.**

Oak



The oak helps to cope with stress, activates blood circulation and speeds recovery.

Pine, spruce



**Walking through
the pine forest, you
can get rid of
cough and cold,
but you can get
sick heart.**

Beech



Beech increases resistance to stress and ability to concentrate, improves circulation.

Chestnut



Chestnut cures insomnia, relieves nervous tension and dispels fears.

Larch



Larch has a strong anti-inflammatory action, it fills one with optimism.

Linden

Linden gives a charge of vivacity.



Poplar



It actively «sucks away» the negative energy from the environment but often causes headache.

Trees donors



Oak, Pine, Acacia,
Birch, Cedar, Maple,
Rowan - **Trees**
donor, generously
endowing the
human energy.



Trees **vampires**



**Poplar, Aspen,
Ash, Lilac, on
the contrary,
have a solid
reputation of
vampire trees.**



The most unusual trees of the world

Hyperion, California, USA



**The tallest tree on
the Earth**

**It is higher than
the statue of
Liberty.**

Tule Tree, 2000 years, Mexico



**The most
discordant
cypress and
the thickest
tree on the
Earth**

The baobab, 6000 years, South Africa



In 1933, inside the trunk of the baobab was equipped with a bar.

In it can fit 15-20 people.

Bombax, Silk trees, Cambodia



**It is a temple with
the trees which
are UNESCO
world Heritage
Site list.**

The great Banyan tree, *Ficus Bengali*, Tree «Forest», **India**



**It's hard to
understand that
this is not a
shady grove but
one tree.**

Tree Wawon, Yosemite national Park USA



A tree is so big that in 1881 in his trunk had made **a tunnel into** which freely passes a car.

The Baobab, **Madagascar**



Massive trunk serves as a water source for local fauna, especially in the dry season.

The sacred Fig Tree of the Sri Maha Bodhi, Sri Lanka



Under the huge dome
and aerial roots
hanging down to the
ground **the great
Buddha reached
Enlightenment** in the
sixth century BC.

Rainbow Eucalyptus, **Philippine Islands**



Beautiful coloring of the bark comes from the permanent detachment of old strips of bark, bright green, young bark...

«Curve» forest, near Gryfino, Eastern Poland



**Unusual forest
with 400 trees.
Their wood is
used in the
manufacture.**

Walking trees, **Lake Baikal**



The complex root system helps these trees (larches and pines) to stay on the surface.

Sycamore, California

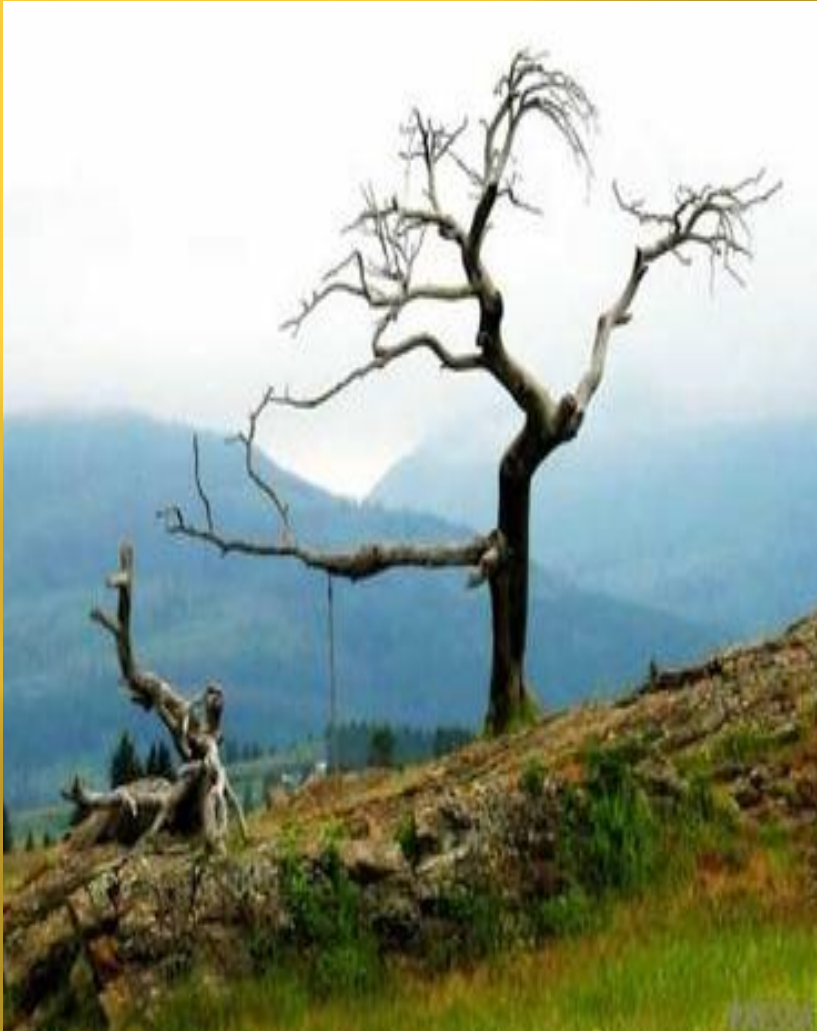


Wood basket
–there is the **six**
individual
plants.

The circus trees of Axel Erlandson, California



Don't kill pine, **Canada**



**It dried up in the
1970-ies.**

**The locals set the
tree in place and
here today the
tree stands as a
living.**

**Acacia, «The Tree of life»,
the desert of Bahrain**



**It grows in the
desert, is alive,
thanks to the
extremely
powerful and
deep root system.**

Spiny peach Palm, Costa Rica and Nicaragua



Its trunk is covered with sharp black needles.

Fermented the palm fruit is a favorite treat.



The milk tree,
South and Central America



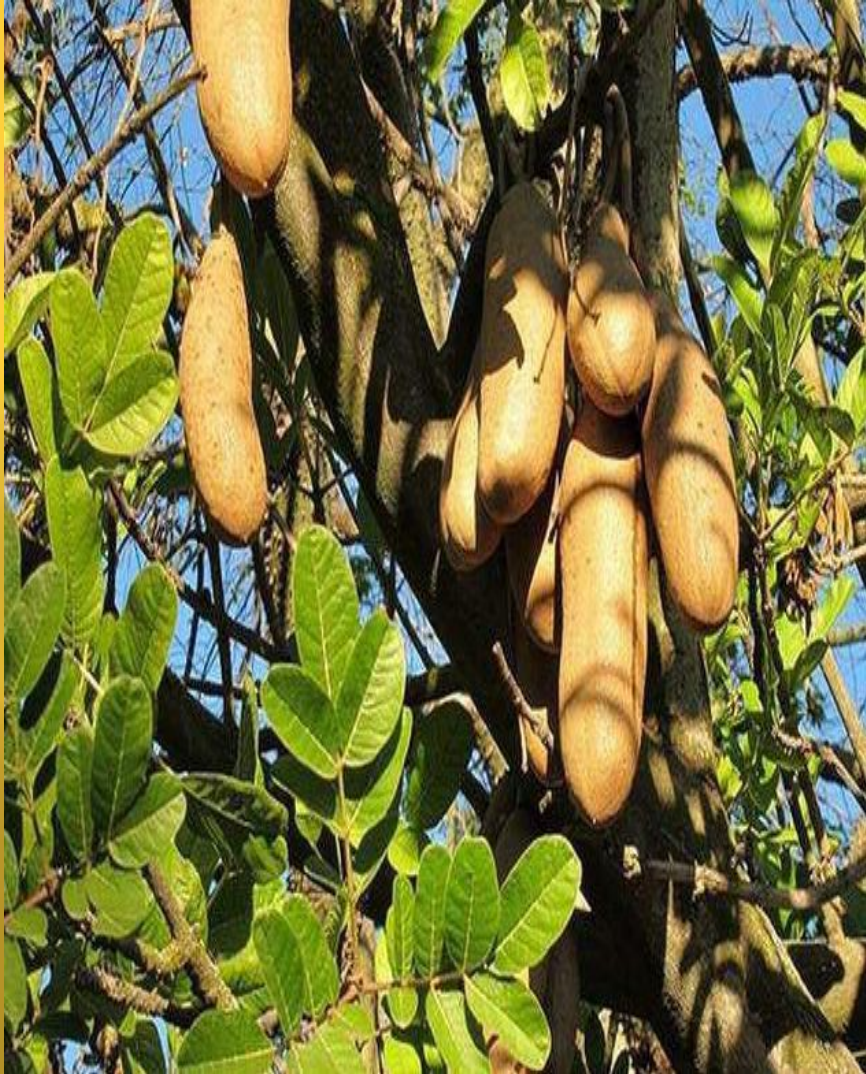
The milky juice
of the tree, both
in appearance
and taste like
cow's milk.

Breadfruit, Thailand



It bears 12 kg
oval fruit
«rolls» which
accumulates
starch.

Sausage tree, Africa, Madagascar



Only hippos,
monkeys and
giraffes eat
Kigelia's fruits
which have a very
significant weight
– nearly 8 pounds.

Candy tree, **Southeast Asia**



Hovenia «Sweet»
Its stalks taste like raisins with a taste of rum.



Candlestick tree, **Panama**



**In the trees you
can see the **real
candles.****

**The locals use
them to light
their homes.**

Soapy wood, Sapindus,
the Florida Peninsula



**Lightly rubbing
his ripened the
fruits, you will **get**
some soap lather.**

Tree Keppel, **India**



In taste they
resemble **mango**
and **grapes**.

Cannon tree, **South America**



It is dangerous to come near him or stand under it. There is a risk of getting hit.

Bottle tree, **Namibia**



**The most
poisonous plants
on our planet
Its milky juice is
extremely
dangerous.**



Tree Yew, **Europe, Asia**



It is listed in the red book. The needles of the tree contain toxic substances, and when it falls, all the plants under it are killed.

Oil tree, **Philippine Islands**



Tree «Hang», its fruits contain almost **pure oil**. In recent years, the country develops a **new technology of using the fruits of this tree as a fuel source for engines.**

Albitsiya, the sleeping tree, the silk tree

India, Australia, the Caucasus and Central Asia



**Mimosa is the
large beautiful
plant.**

**Its height is
about 12 meters.**

Wisteria, **Japan**



**The most
beautiful tree in
the world.**

Take care of nature!



Take care of yourself!



Plant a tree!



Thanks for attention!