

WHAT DOES A TREE DO FOR ME?

ECOSYSTEM SERVICES

noun plural - the important benefits for human beings that arise from healthily functioning ecosystems



PROVISIONING
MATERIAL GOODS, LIKE
FOOD, WATER AND FUEL



REGULATING
RAINFALL, AIR AND
WATER QUALITY



SUPPORTING
HABITATS FOR
BIODIVERSITY



CULTURAL
RECREATION, TOURISM,
SPIRITUAL EXPERIENCE

TREES PROVIDE THE SUGAR MAPLE NORTH AMERICA



SUGAR MAPLES GIVE US MAPLE SYRUP

AND TIMBER FOR ITEMS LIKE BASEBALL BATS,
BOWLING ALLEYS, BASKETBALL COURTS AND
POOL CUES



13 MILLION

LITERS OF MAPLE SYRUP
PRODUCED IN THE U.S. IN 2015

CLIMATE CHANGE AND ACID RAIN THREATEN SUGAR
MAPLE POPULATIONS AND HEALTH, CREATING
UNCERTAIN ECONOMIC FUTURES FOR LAND
MANAGERS AND MAPLE CULTIVATORS

\$214,000 100-YEAR NET LOSSES PER HECTARE (2.47 ACRES)
OF SUGAR MAPLE GROWING IN ACIDIFIED SOIL

TREES SUPPORT CONGO RAINFOREST THE CONGO BASIN



SUPPORTS BIODIVERSITY THAT
ABOUT 100 MILLION PEOPLE
RELY ON FOR JOBS AND INCOME, FOOD, CLIMATE
REGULATION, FUEL AND MORE



MORE THAN
1,000 BIRD
SPECIES



MORE THAN
10,000 PLANT
SPECIES



~400 MAMMALS, INCLUDING
ELEPHANTS, GORILLAS,
BONOBOS, AND OKAPI

INCREASING DEFORESTATION THREATENS TO
DISRUPT ECOSYSTEM SERVICES, WHICH CAN LEAD TO
EFFECTS—LIKE FOOD SCARCITY AND WATER
SHORTAGES—THAT HARM THE ENTIRE REGION



THE CONGO BASIN LOSES **2-3%** OF FOREST COVER EVERY DECADE

TREES REGULATE MANGROVES INDONESIA



PHYSICALLY BUFFER THE INDONESIAN ISLANDS
FROM EXTREME WEATHER



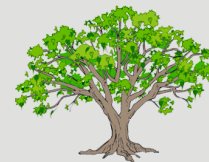
REDUCE THE EFFECTS OF CLIMATE CHANGE BY
STORING AND SYNTHESIZING CARBON DIOXIDE (A
COMMON GREENHOUSE GAS)

23% OF THE WORLD'S MANGROVES
ARE IN INDONESIA

MANGROVE LOSSES RELEASE STORED CARBON
DIOXIDE BACK INTO THE AIR AND MAKE COASTLINES
MORE VULNERABLE—RESULTING IN INCREASED
DAMAGE AND MORTALITY FROM STORM SURGES,
TSUNAMIS, AND HURRICANES

75% MANGROVE LOSSES IN
INDONESIA, 1980-2005

TREES ENRICH SACRED FIG INDIA



SACRED TO HINDUS AND BUDDHISTS AS THE TREE
THE BUDDHA WAS SITTING UNDER WHEN HE
ATTAINED ENLIGHTENMENT

FOUND IN TEMPLES ACROSS INDIA AND MANY URBAN
GREEN SPACES

5 - 10 THOUSAND

PILGRIMS VISIT THE TEMPLE AND SACRED
FIG AT BODH GAYA EVERY DAY

THE SACRED FIG'S DECLINE WOULD BE AN
INCALCULABLE LOSS FOR TWO WORLD RELIGIONS,
COMPOUNDED BY REDUCED TOURISM REVENUE ON
PILGRIMAGE ROUTES AND DECREASED URBAN
BIODIVERSITY