TRADE-OFF DECISIONS FOR FOR ESTS

HEALTHY AND PRODUCTIVE FORESTS ARE VITAL TO THE SURVIVAL OF NEARLY EVERY SPECIES ON THE PLANET.
BUT HUMAN ACTIVITIES, PESTS AND A CHANGING CLIMATE ARE THREATENING THEM.

FORESTS ARE IMPORTANT TO LIFE ON EARTH

NEARLY 1/3

OF THE LAND SURFACE of the planet is covered by forests

✓ OF TERRESTRIAL BIODIVERSITY lives in forests

FORESTS ARE THE PLANET'S "LUNGS".

* FORESTS IMPROVE OUR LIVES: medicines, food, shelter, fuel, paper and wood products

PEOPLE are supported by forests

OF THE MOST PRESCRIBED DRUGS

IN THE U.S. are derived from natural, forest-based compounds

FORESTS ARE IN DANGER

POPULATION: MORE PEOPLE = MORE PRESSURE ON NATIVE FORESTS

FRAGMENTATION:

More houses,

Forests are cut

CONVERSION:

down and converted to other uses such as agricultural fields and grazing lands -

Every year

infrastructure, roads, where forests used to be -

...

of forest lost by 2050

Unsustainable

DEMAND:

harvesting of native forests will accelerate as: World population

eclipses

by 2050

PESTS: GLOBAL TRADE = MORE MOBILITY

NO RESISTANCE:

Native trees have no

resistance and die.

WHAT'S THE BOTTOM LINE?

We're exerting TOO MUCH PRESSURE on native forests

non-native **pests** in shipping crates and

airplanes every day.

EASY ENTRY:

We move

predators for the

new pests, so the pests thrive.

because they don't freeze out and die.

MILD WINTERS:

Pests get a boost

a kilometer per year. Yet increase the intensity ecological regions are of wildfires. predicted to move at 10 expand devastation area faster.

CLIMATE CHANGE: RAPIDLY CHANGING CLIMATE = DYING TREES

WILDFIRES:

More extreme weather

events are likely to

times that rate.

UNNATURAL MIGRATION:

Trees can naturally adapt

and migrate less than 1/2

The state of the s

WARM WEATHER:

Warmer winters

allow pests to

IMPROVE FOREST HEALTH

Stopping pests

WHAT TECHNOLOGIES CAN BE USED
RESPONSIBLY TO HELP OUR FORESTS?

WHAT'S THE BOTTOM LINE?

Climates are changing, and TREES CAN'T MOVE FAST ENOUGH

on their own. As a result, many will be outpaced and die.

species

Protecting

and restoring

Use forest resources more efficiently

through early detection

natural resistance to

extreme climates

Finding trees with

Designing trees that

are healthier

and produce

more wood

INCREASE FOREST PRODUCTIVITY

production

Planting more

trees for

sustainable

wood

SOURCES

WWF Living Forests Report 2011

Jouzel and Debroise 2007

United Nations Environmental Programme

Groombridge and Jenkins 2002, World Atlas of Biodiversity