# Report for ForestQuery into Global Deforestation, 1990 to 2016

ForestQuery is on a mission to combat deforestation around the world and to raise awareness about this topic and its impact on the environment. The data analysis team at ForestQuery has obtained data from the World Bank that includes forest area and total land area by country and year from 1990 to 2016, as well as a table of countries and the regions to which they belong.

The data analysis team has used SQL to bring these tables together and to query them in an effort to find areas of concern as well as areas that present an opportunity to learn from successes.

1. GLOBAL SITUATION	
According to the World Bank, the total forest area of the world was1990.	in
As of 2016, the most recent year for which data was available, that number had fallen to, a loss of, or	o
The forest area lost over this time period is slightly more than the entire land area of listed for the year 2016 (which is).	
2. REGIONAL OUTLOOK	
In 2016, the percent of the total land area of the world designated as forest was The region with the highest relative forestation	
was, with	
relative forestation was, with% forestatio	n.
In 1990, the percent of the total land area of the world designated as forest was The region with the highest relative forestation	
was, with,, and the region with the lowes	st
relative forestation was, with% forestatio	n.

Table 2.1: Percent Forest Area by Region, 1990 & 2016:

Region	1990 Forest Percentage	2016 Forest Percentage
actually increased in forest area	from% to% over this time period. Howevers so large, the percent forest a	% to%) and%). All other regions er, the drop in forest area in the trea of the world decreased over
3. COUNTRY-LEVEL	DETAIL	
A. SUCCESS STORIE	S	
country actually increased in for	est area from 1990 to 2016 by changed in this country over to next largest increase in forest only saw an increase of	
and	are of cour	se very large countries in total
	ne largest <i>percent</i> change in fo	prest area from 1990 to 2016, we

#### **B. LARGEST CONCERNS**

Which countries are seeing deforestation to the largest degree? We can answer this question in two ways. First, we can look at the absolute square kilometer decrease in forest area from 1990

increased in forest area by \_\_\_\_\_\_% from 1990 to 2016.

to 2016. The following 3 countries had the largest decrease in forest area over the time period under consideration:

Table 3.1: Top 5 Amount Decrease in Forest Area by Country, 1990 & 2016:

Country	Region	Absolute Forest Area Change

The second way to consider which countries are of concern is to analyze the data by percent decrease.

Table 3.2: Top 5 Percent Decrease in Forest Area by Country, 1990 & 2016:

Country	Region	Pct Forest Area Change

	forest area percentage the most between 1990
and 2016, we find that four of the top 5 countri	<b>G</b>
, and	The 5th country on the list is
, which is in the	region.
From the above analysis, we see that	is the only country that ranks in
the top 5 both in terms of absolute square kilor	meter decrease in forest as well as percent
decrease in forest area from 1990 to 2016. Th	erefore, this country has a significant opportunity
ahead to stop the decline and hopefully spearl	nead remedial efforts.

#### C. QUARTILES

Table 3.3: Count of Countries Grouped by Forestation Percent Quartiles, 2016:

Quartile	Number of Countries		untries
The largest number of countrie	s in 2016 were fo	ound in the	quartile.
There werewith a very high percentage of countries and their respective f	their land area de	esignated as fore	est. The following is a list of
Table 3.4: Top Quartile Countr	ies, 2016:		
Country	Region		Pct Designated as Forest

### 4. RECOMMENDATIONS

Write out a set of recommendations as an analyst on the ForestQuery team.

- What have you learned from the World Bank data?
- Which countries should we focus on over others?

## 5. APPENDIX: SQL Queries Used