Royal Geographical Society with IBG

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The Future Tropical Forest Ecosystem

Nuffield Foundation

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The Future Tropical Rainforest

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Objectives

To gain a greater appreciation of the level and rate of deforestation in tropical rainforest areas

To be able to produce a map of spatial data using a GIS package

To describe and explain the relationship between deforestation and other variables

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768,935 km^2 of tropical rainforest has been lost from the Brazilian Amazon since 1970

How many countries the size of England could you fit in this area?

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(England = 130,395 km^2)

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768,935 km^2 of tropical rainforest has been lost from the Brazilian Amazon since 1970

= 6 countries the size of England

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7,989 km^2 of tropical rainforest was lost from the Brazilian Amazon in 2016

How many football pitches could you fit in this area?

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Royal Geographical Society with IBG

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7,989 km^2 of tropical rainforest was lost from the Brazilian Amazon in 2016

How many football pitches could you fit in this area?

A standard football pitch measures 64m x 100m

Nuffield Foundation

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The Future Tropical Rainforest

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7,989 km^2 of tropical rainforest was lost from the Brazilian Amazon in 2016

= 1,248,281 football pitches

Nuffield Foundation

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The Future Tropical Rainforest

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Assuming deforestation was happening at the same pace, 24 hours a day and on every day of the year, how many football pitches are we losing every hour in the Brazilian Amazon alone?

1,248,281 football pitches a year

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Assuming deforestation was happening at the same pace, 24 hours a day and on every day of the year, how many football pitches are we losing every hour in the Brazilian Amazon alone?

1,248,281 football pitches a year

(divide by 365)

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Assuming deforestation was happening at the same pace, 24 hours a day and on every day of the year, how many football pitches are we losing every hour in the Brazilian Amazon alone?

1,248,281 football pitches a year

= 3,420 football pitches a day

(divide by 365)

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Assuming deforestation was happening at the same pace, 24 hours a day and on every day of the year, how many football pitches are we losing every hour in the Brazilian Amazon alone?

3,420 football pitches a day

(divide by 24)

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Assuming deforestation was happening at the same pace, 24 hours a day and on every day of the year, how many football pitches are we losing every hour in the Brazilian Amazon alone?

3,420 football pitches a day

(divide by 24)

= 142 football pitches an hour

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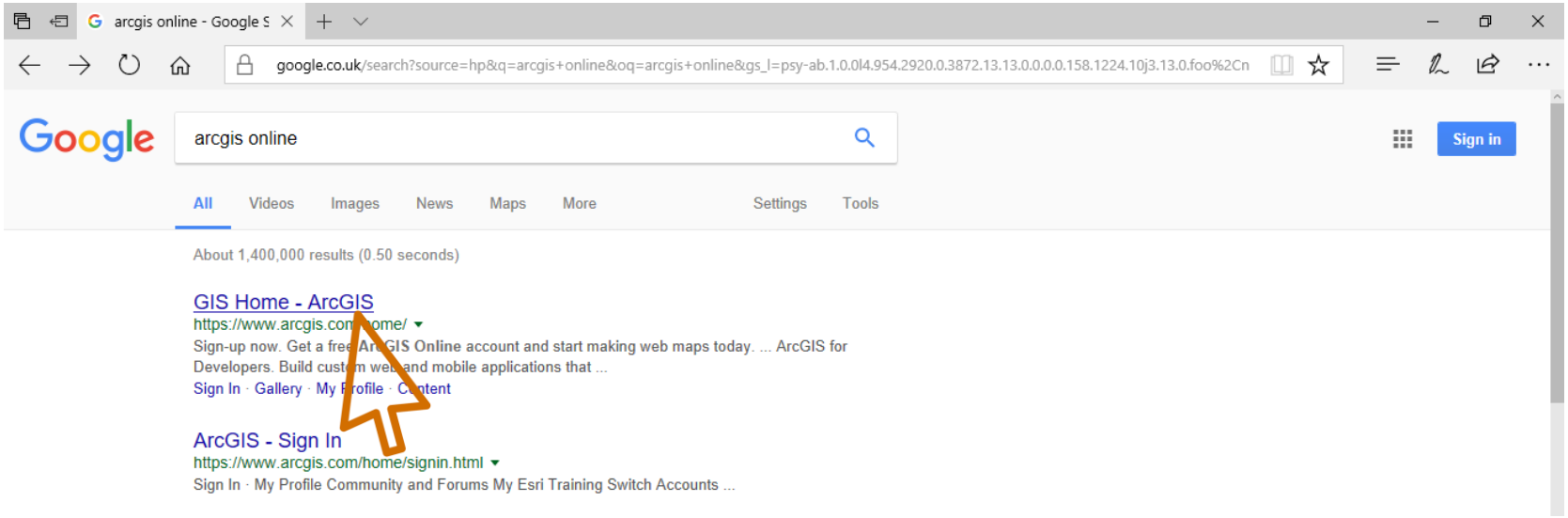
Go onto ArcGIS Online:



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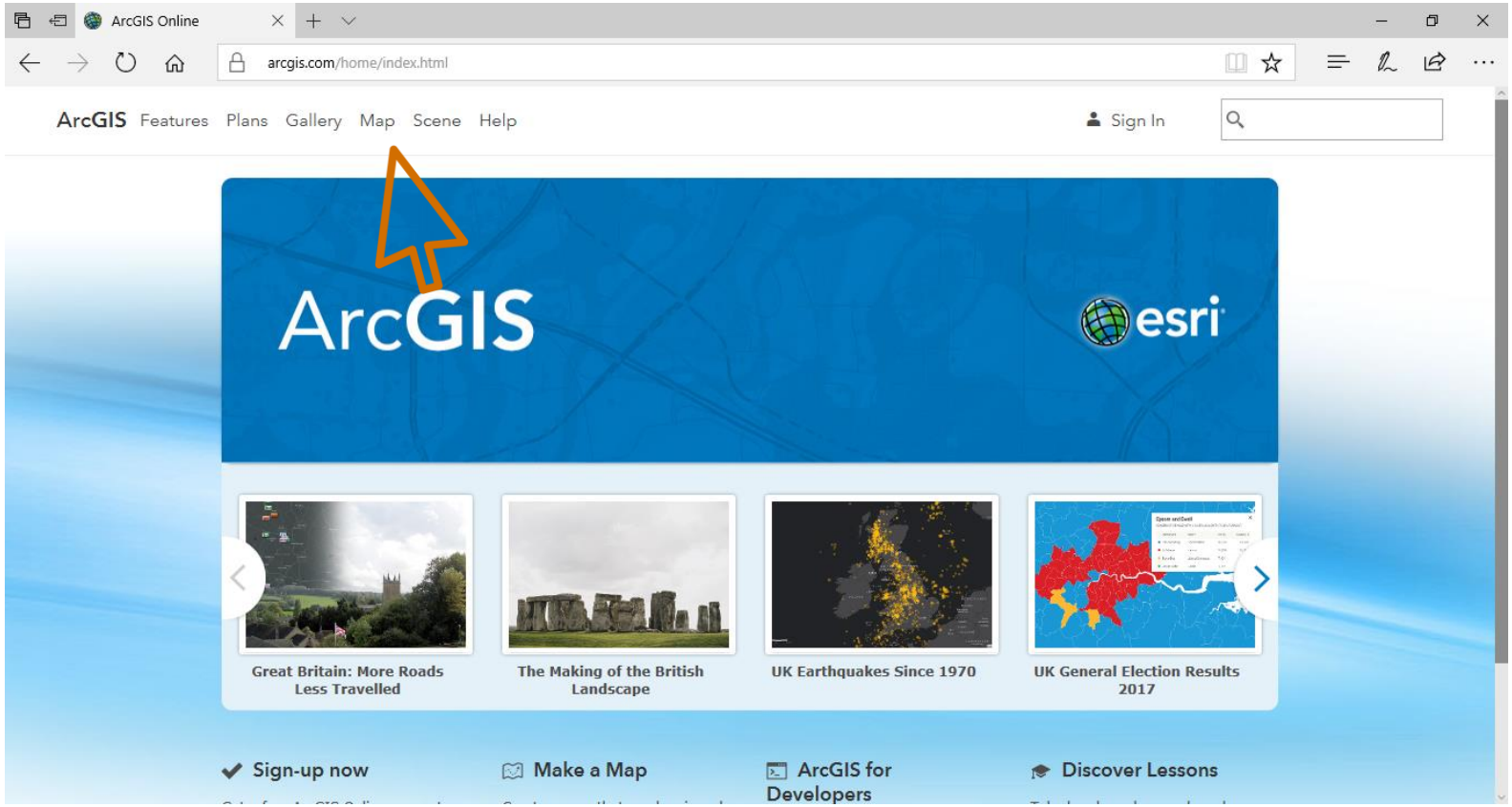
Select ‘Map’ :



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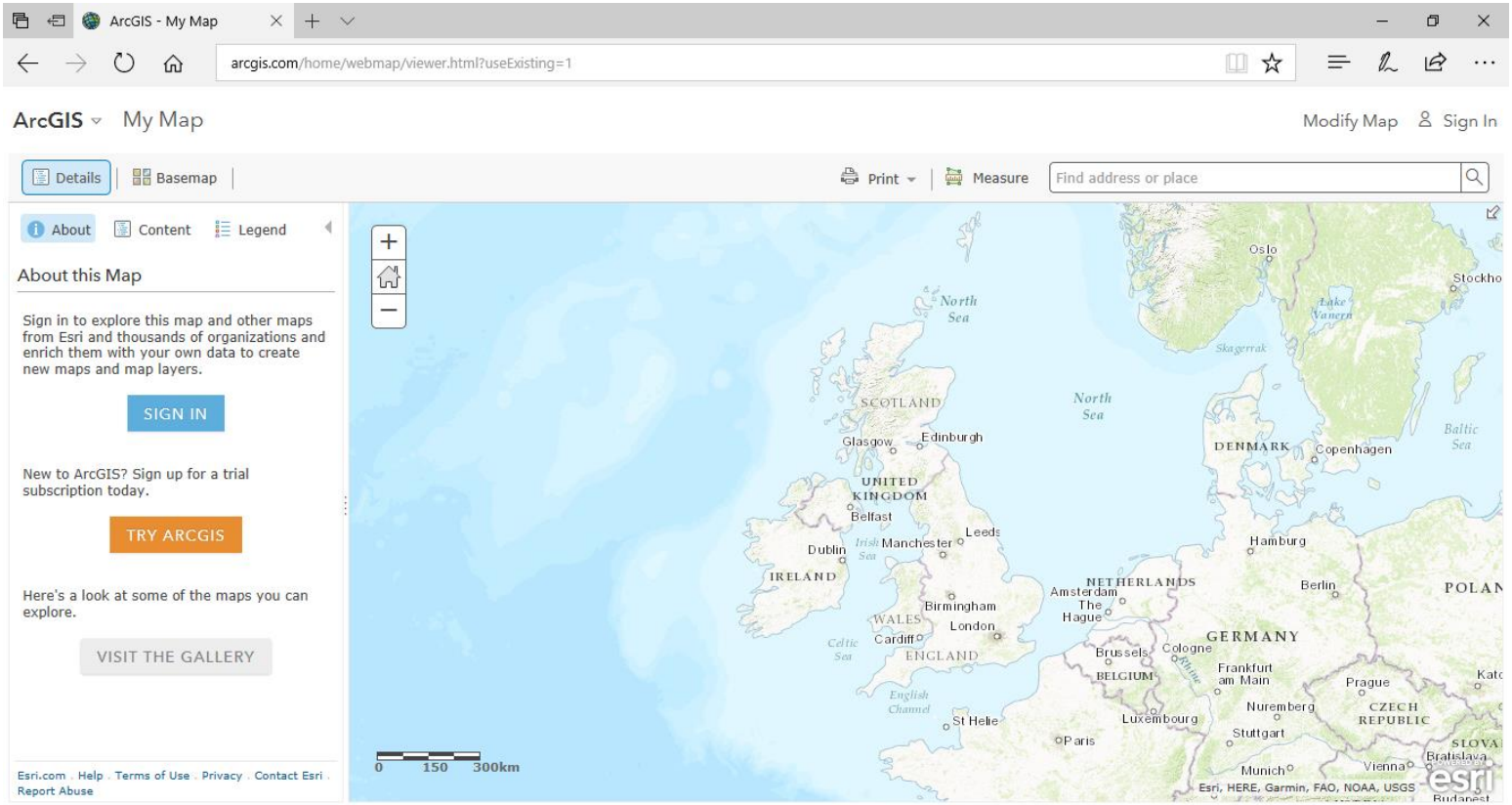
Drag the CSV data file onto the map:



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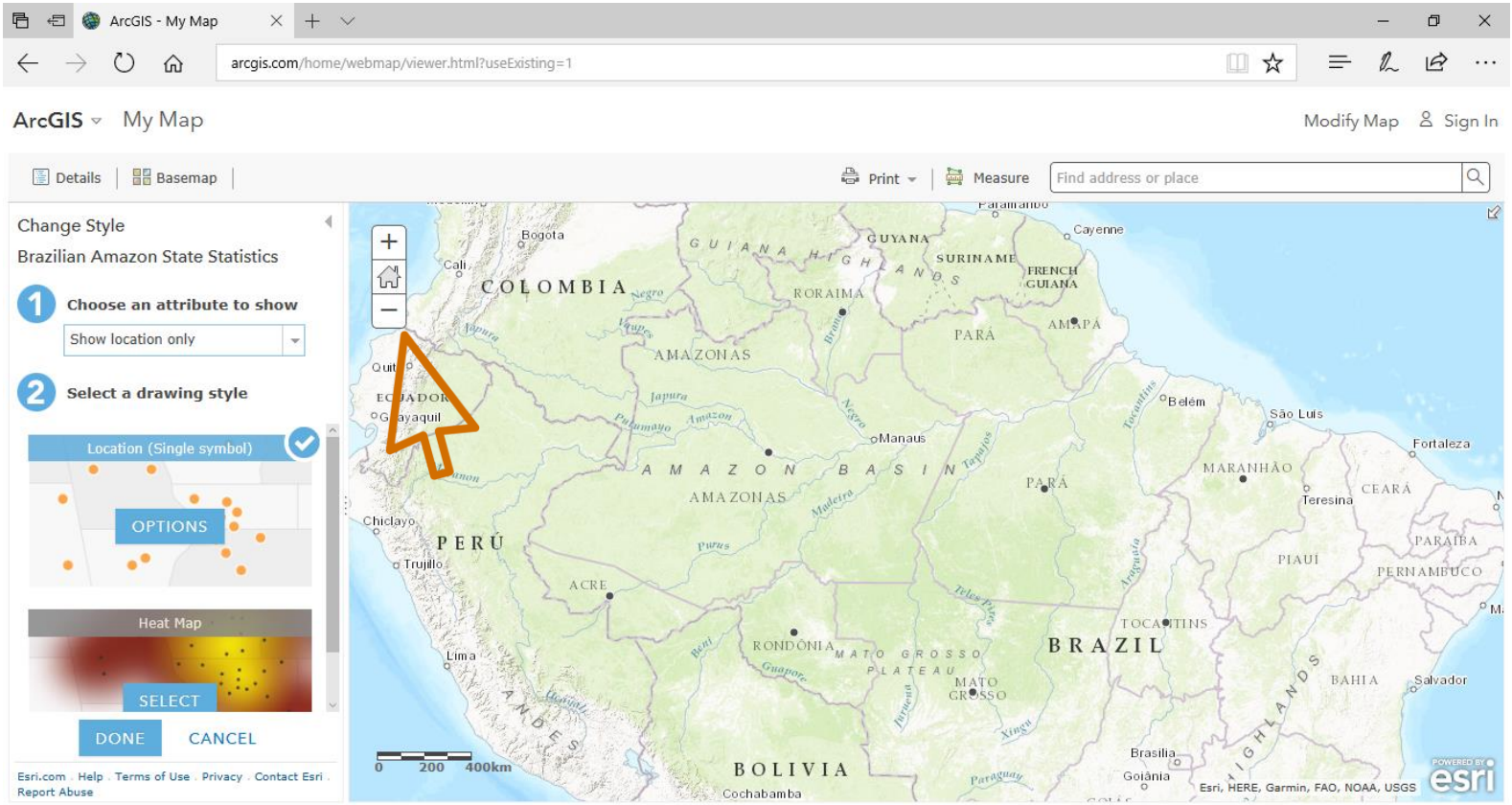
Zoom out to a level where you can see Brazil most clearly:



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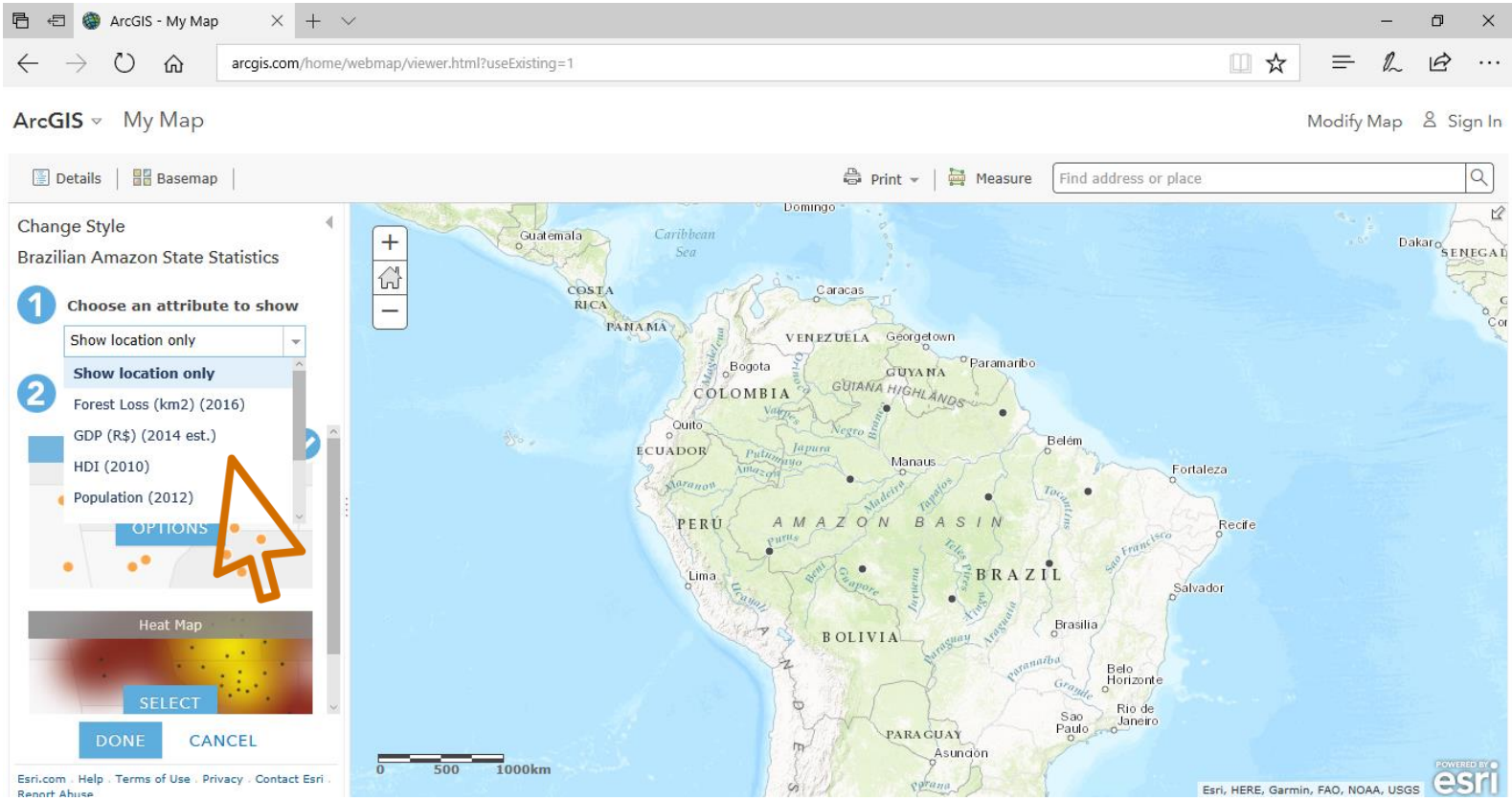
Changing the attributes changes the data displayed:



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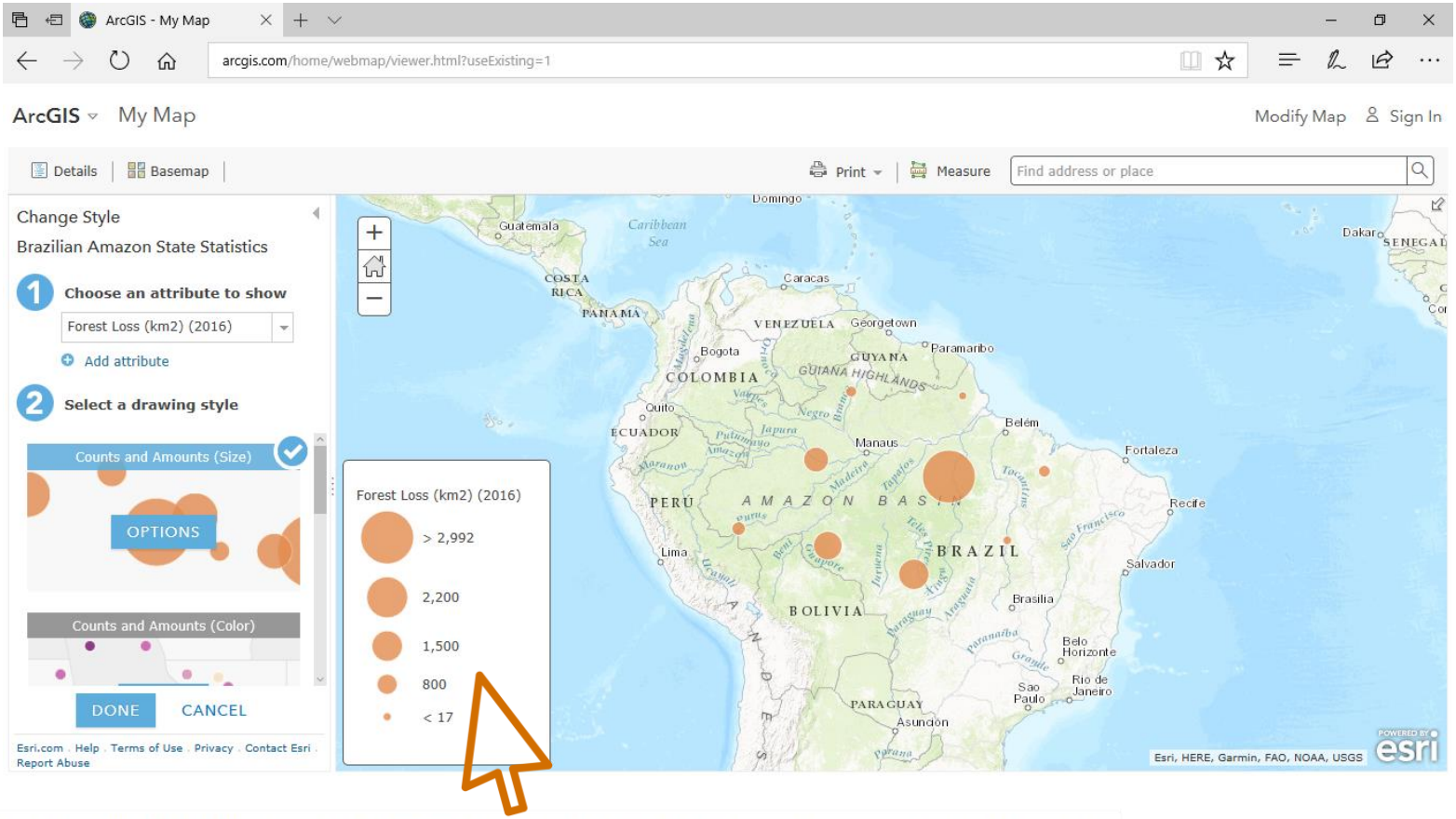
The default presentation method is proportional circles:



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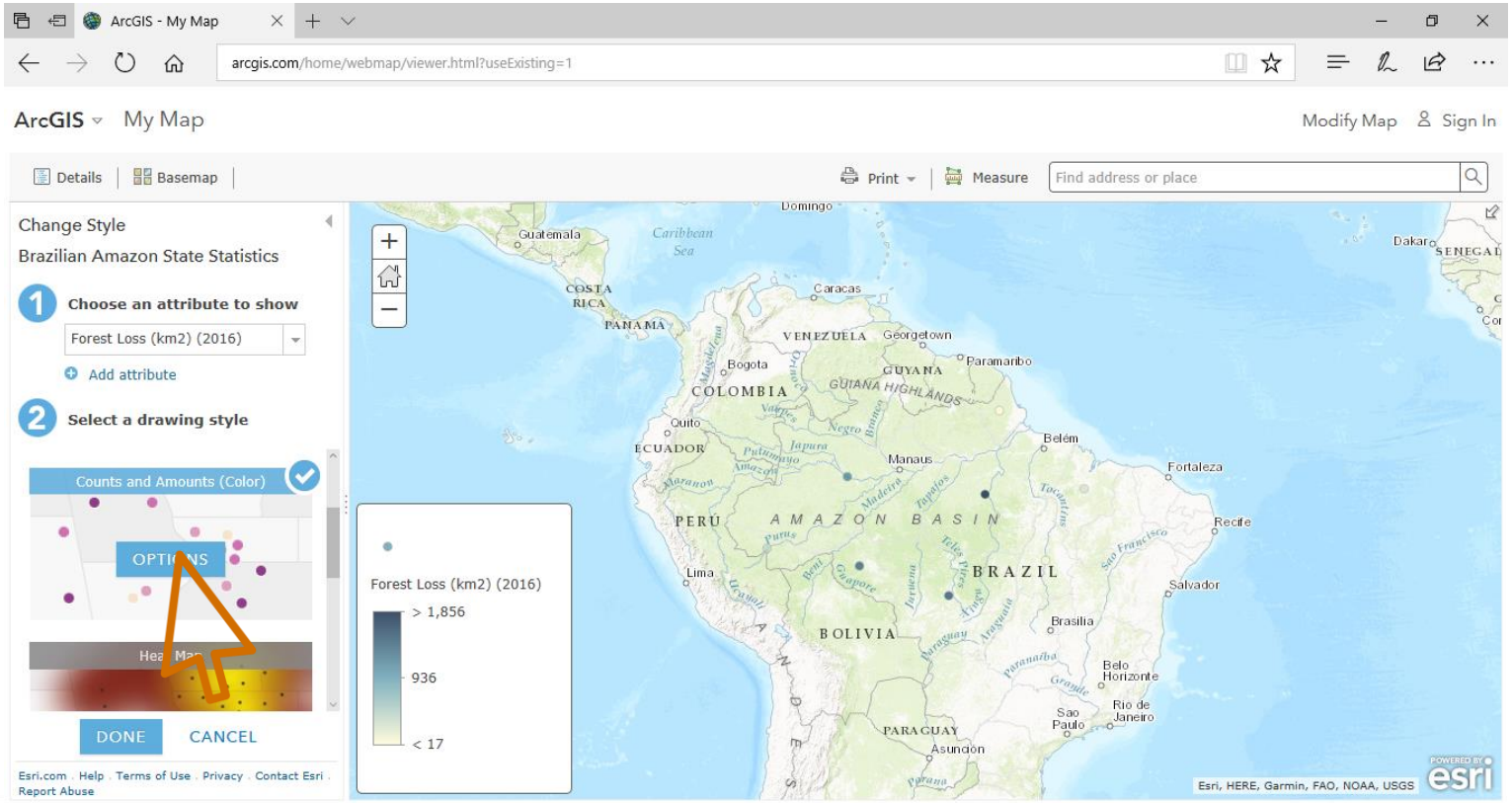
Selecting '<u>Counts and Amounts (Color)</u>' changes the map to choropleth shaded dots:



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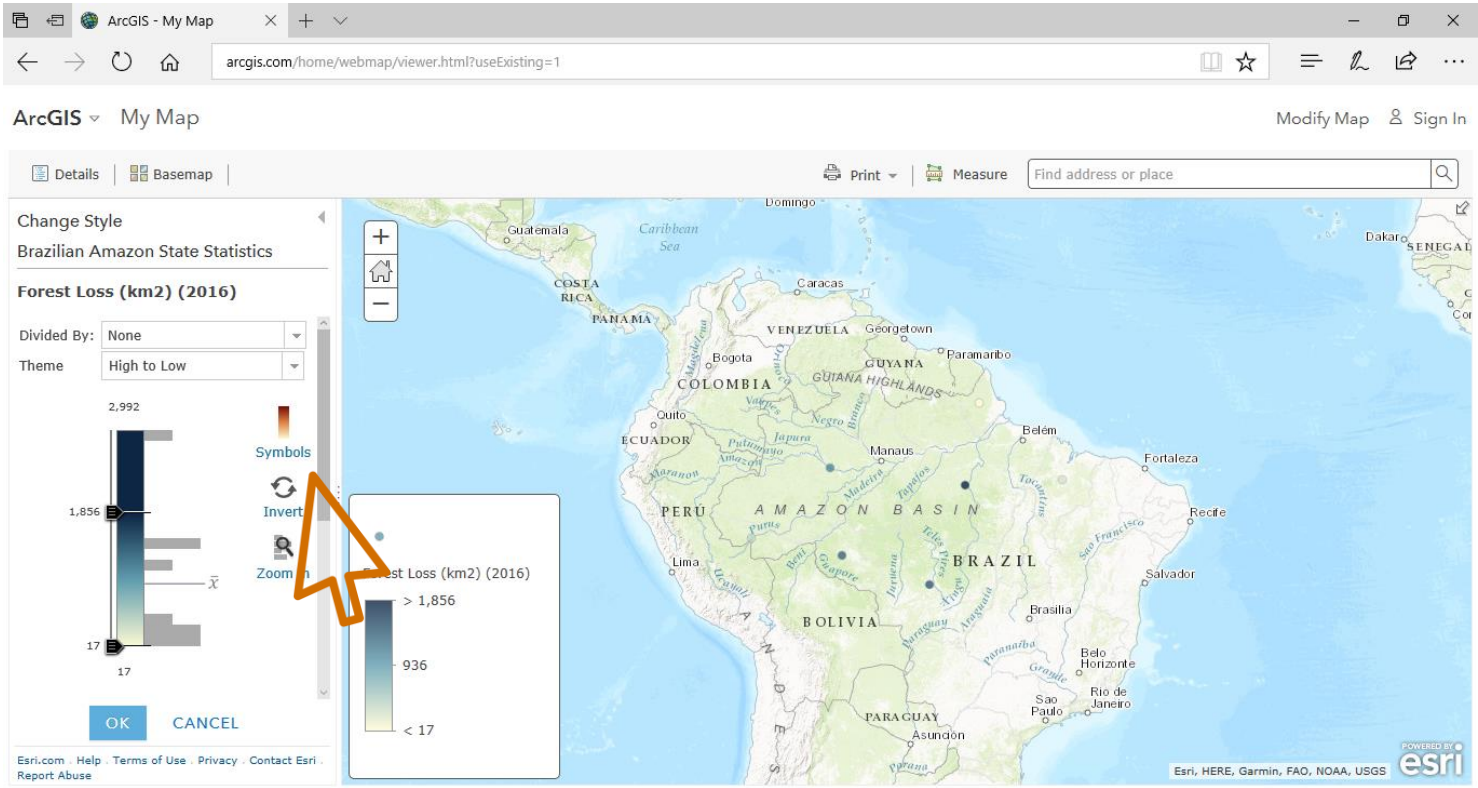
Selecting '<u>Options</u>' and '<u>Symbols</u>' gives you the ability to change the size, shape and colour palette of the choropleth shapes:



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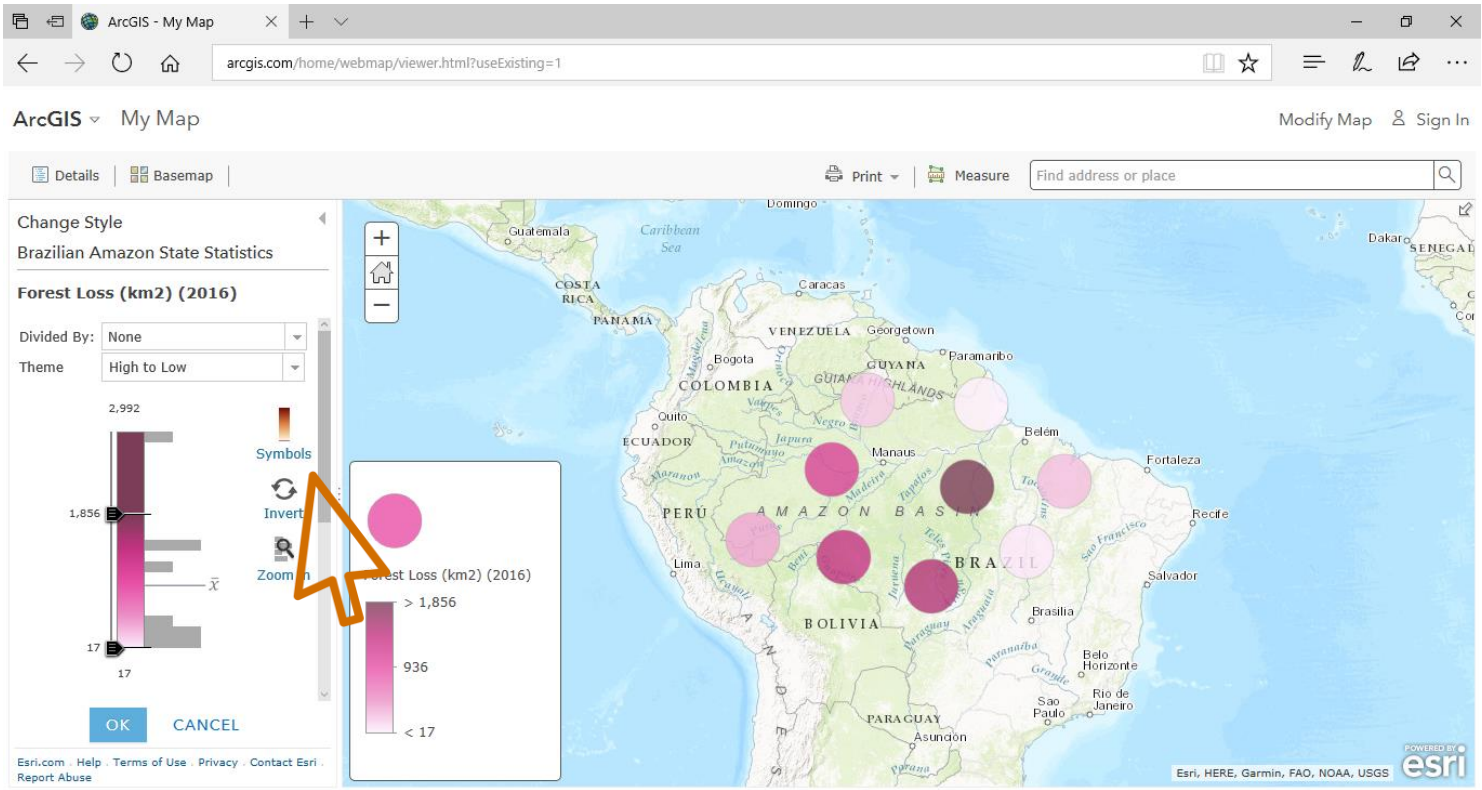

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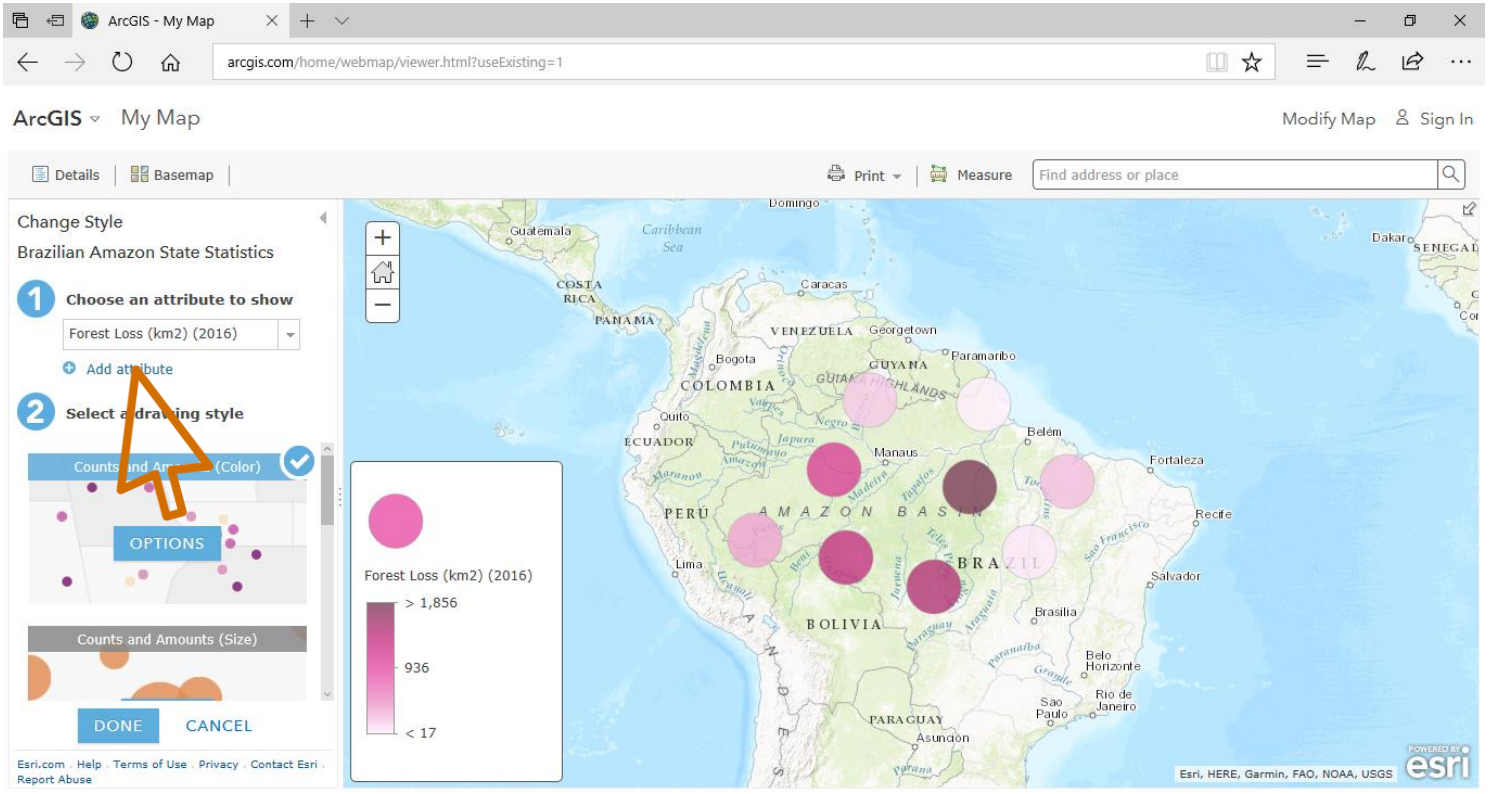
Select 'Add attribute' to compare more than one variable from the CSV file:



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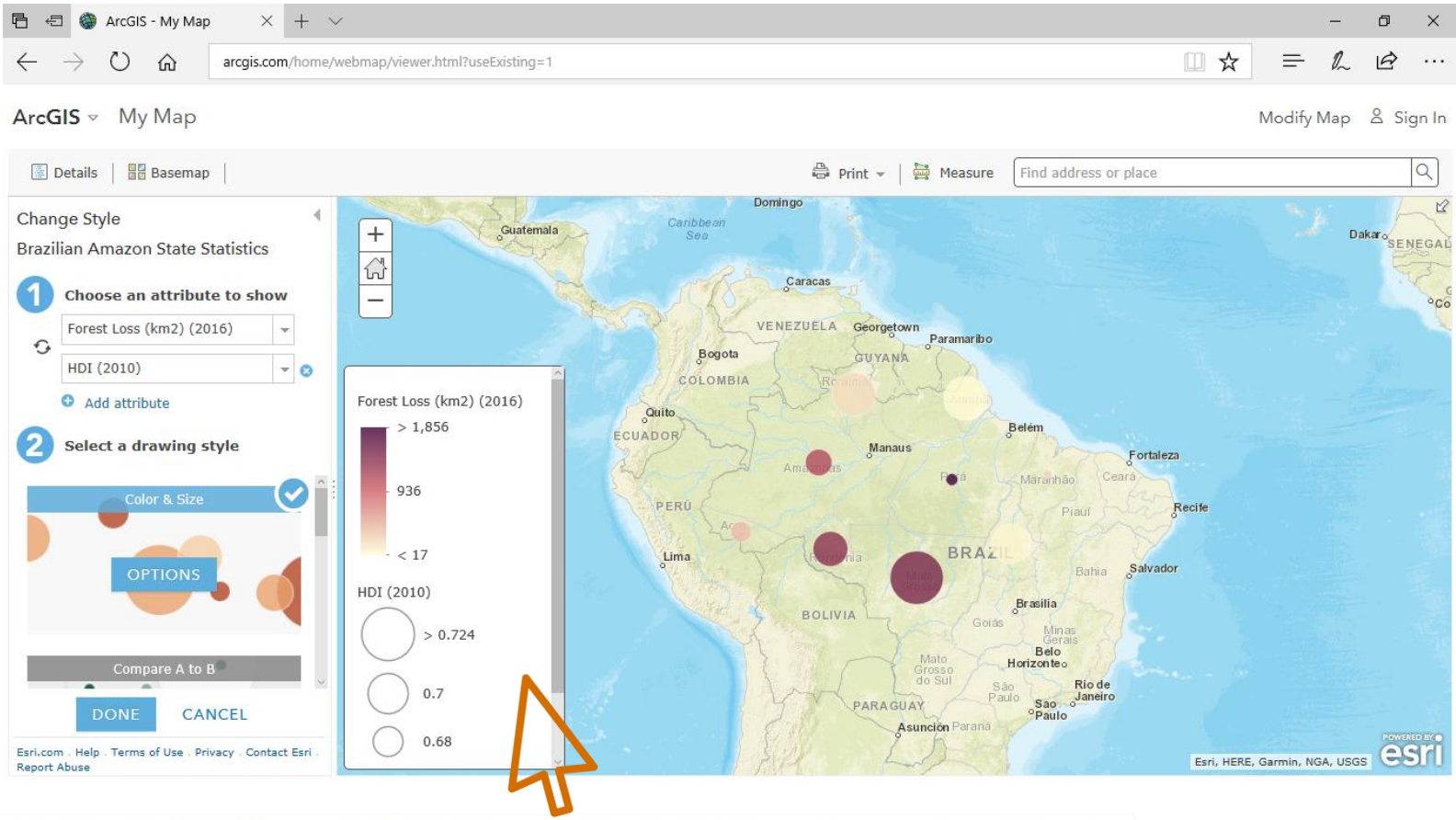
In this case, size and colour represent the two different variables:



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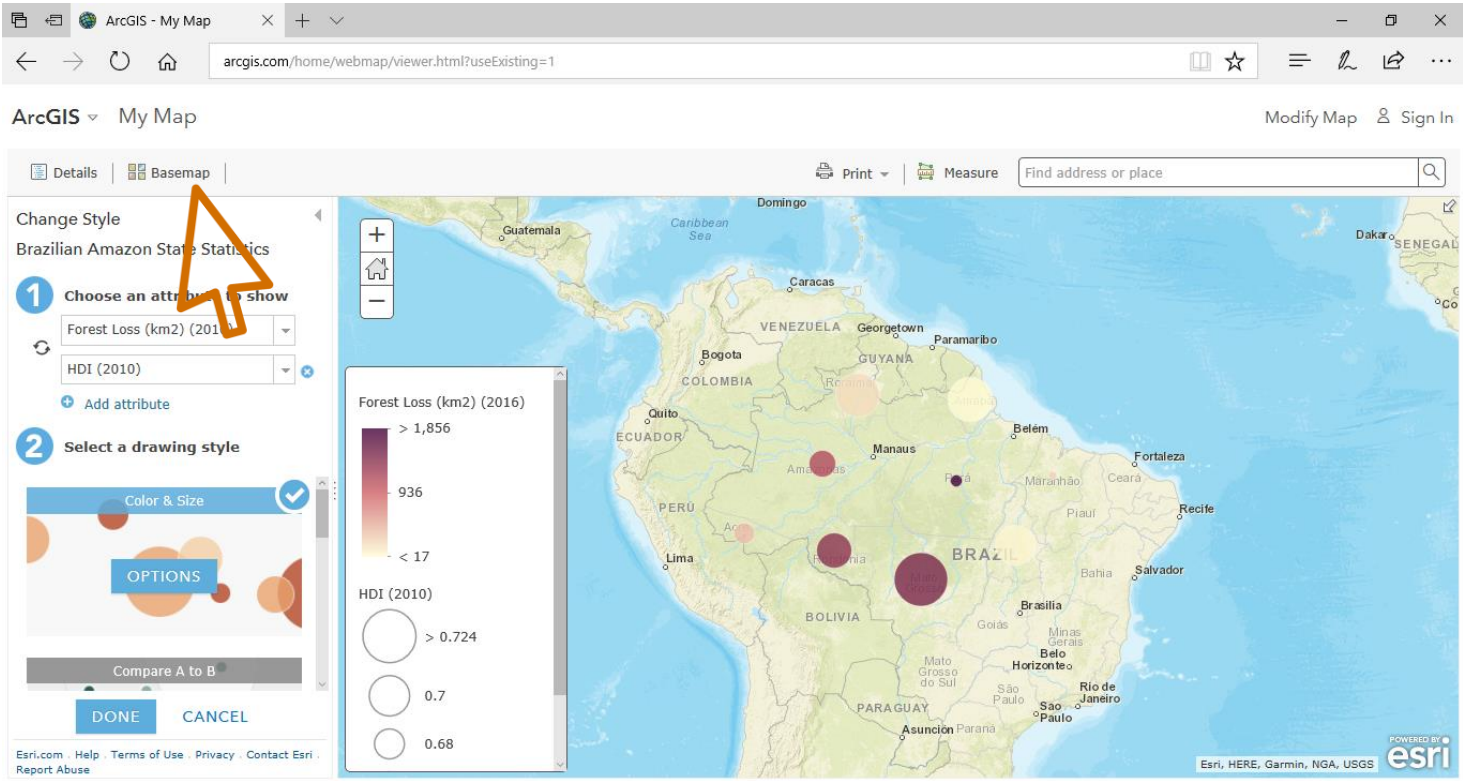
Experiment with changing the basemap to make the data stand out, as well as with scale, colour and attribute selected:



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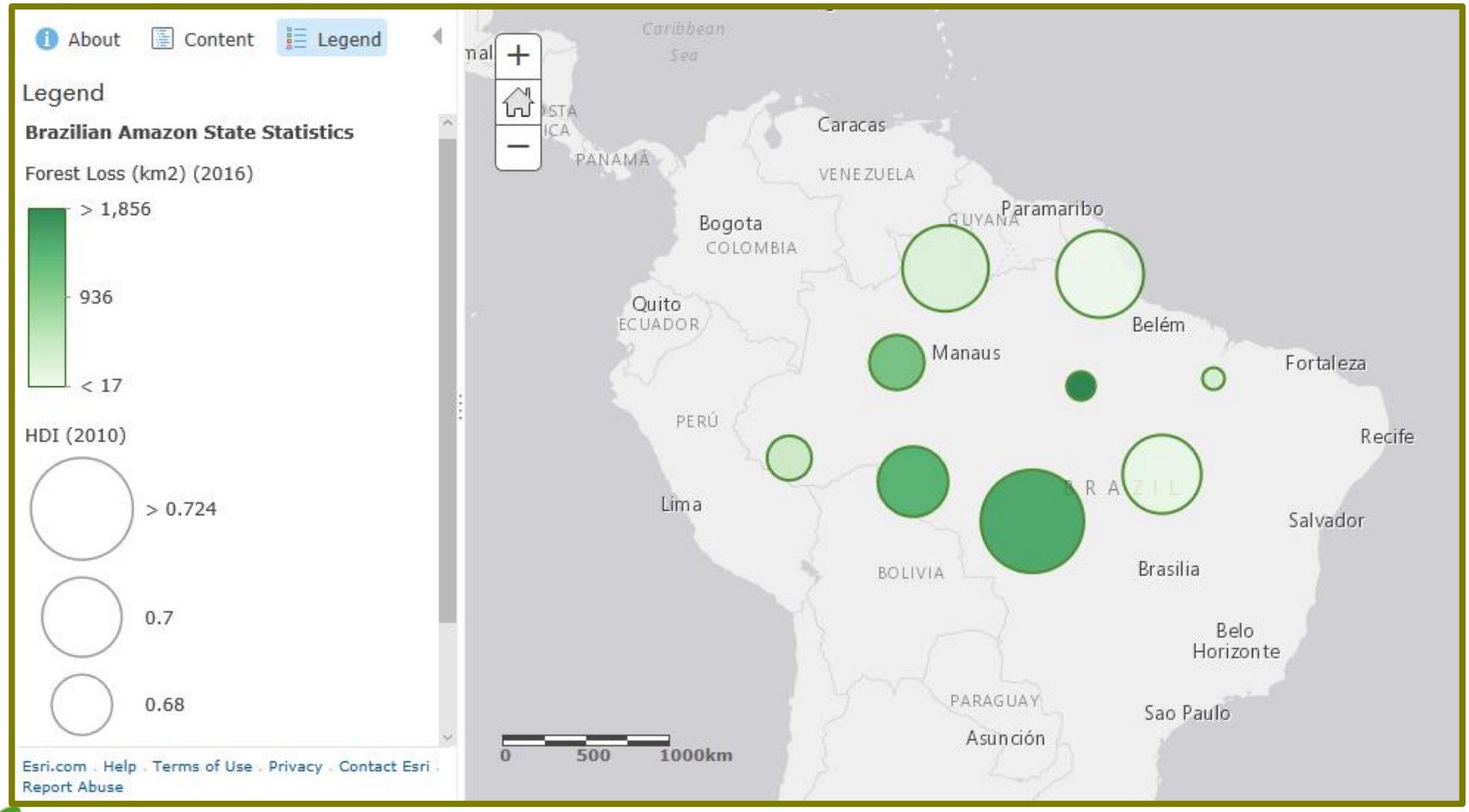

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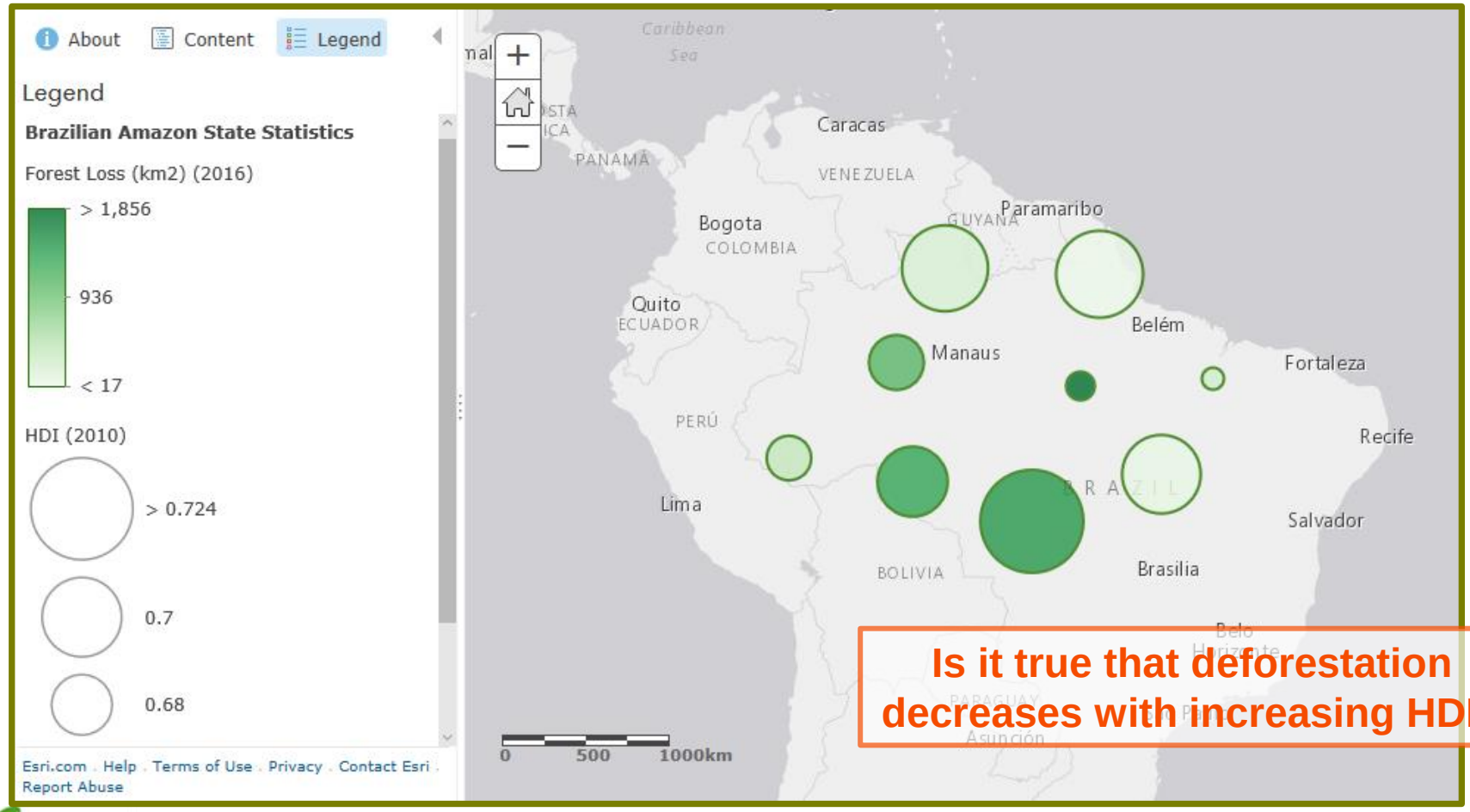

Is it true that deforestation decreases with increasing HDI?

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What makes a good pie chart?

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What makes a good pie chart?

Easy to read?

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What makes a good pie chart?

Easy to read?

Do we need to see figures?

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What makes a good pie chart?

Easy to read?

Do we need to see figures?

Clear categories?

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What makes a good pie chart?

Attractive?

Easy to read?

Do we need to see figures?

Clear categories?

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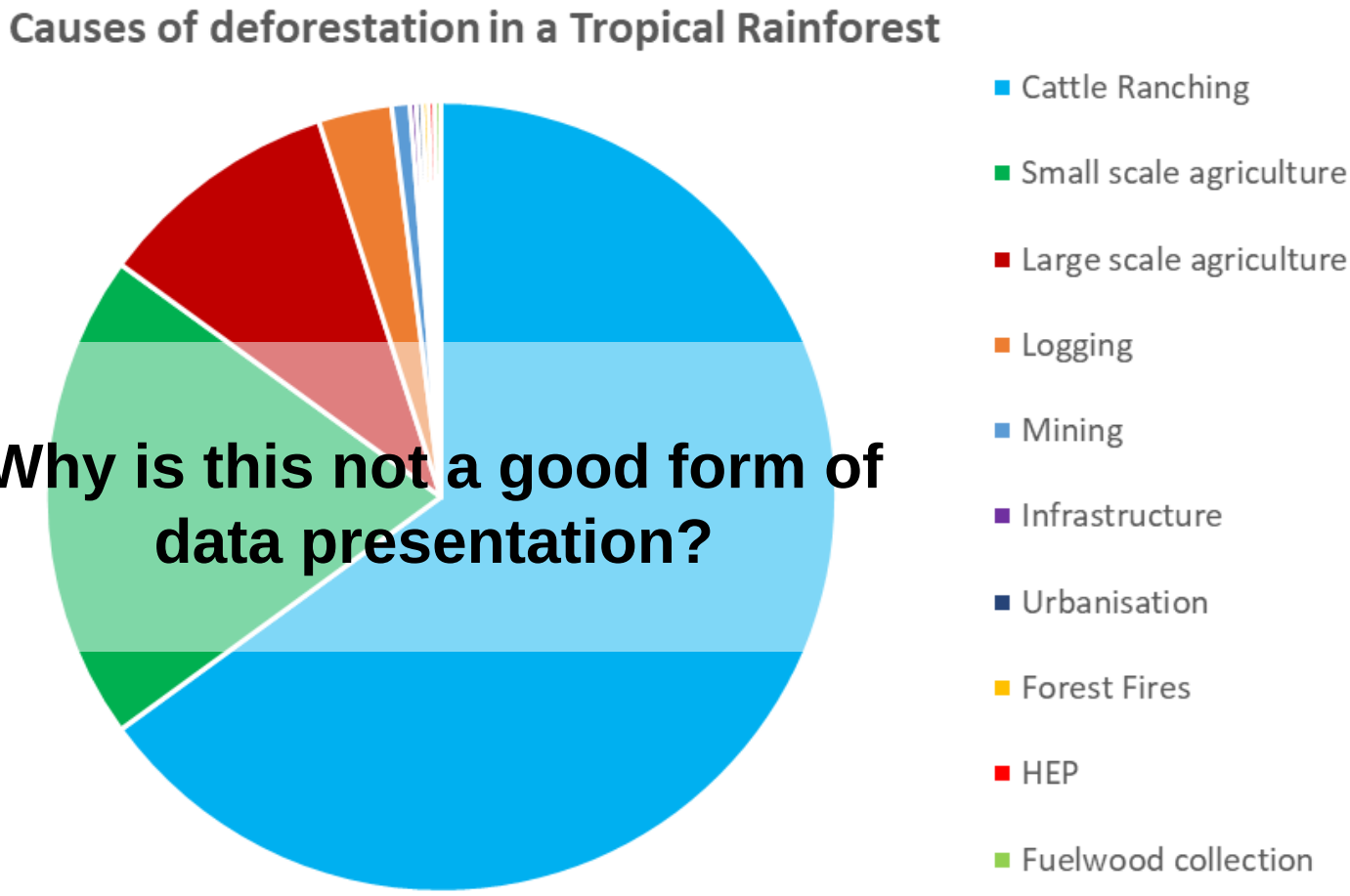

Why is this not a good form of data presentation?

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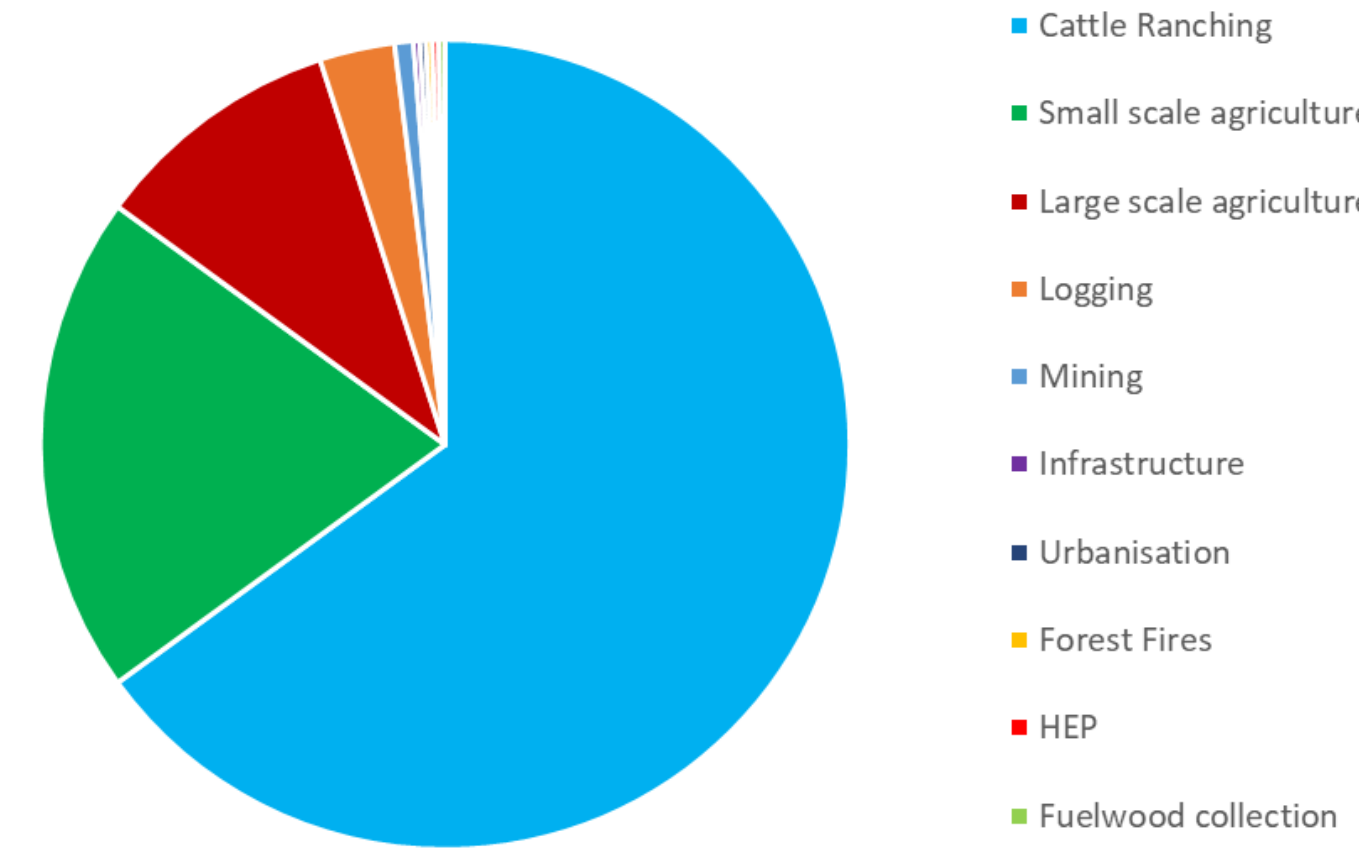
Causes of deforestation in a Tropical Rainforest



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Which measure shows the greatest concern looking back at how countries have treated their rainforest?

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Country	Area of forest cover (km²)	Forest Cover	Loss as % of 2004 cover	Rate of deforestation change 2004 - 2014	Loss 2001-2014
Brazil	519,191,664	61.90%	4.90%	-6.00%	38,336,733
DR Congo	199,224,295	87.10%	3.20%	22.90%	7,977,010
Indonesia	160,978,096	85.80%	9.60%	2.40%	18,507,771
Colombia	81,779,083	72.60%	2.50%	-9.70%	2,822,694
Peru	78,069,516	60.90%	2.10%	16.40%	1,949,886
Bolivia	64,520,862	60.00%	4.20%	7.50%	3,394,108
Venezuela	56,531,450	62.80%	1.80%	-13.30%	1,376,709
Angola	55,315,474	44.40%	2.60%	19.40%	1,740,011
Mexico	53,182,952	27.40%	3.70%	-9.90%	2,587,661

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Which measure shows the greatest concern looking forward at how countries may manage their rainforest in the future?

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Which country has arguably been most destructive of its rainforest?

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Which country has arguably been most protective of its rainforest recently?

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Guess the Deforestation Rate

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768,935 km^2 of tropical rainforest has been lost from the Brazilian Amazon since 1970

How many countries the size of England could you fit in this area?

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7,989 km^2 of tropical rainforest was lost from the Brazilian Amazon in 2016

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1,248,281 football pitches a year

(divide by 365)

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1,248,281 football pitches a year

= 3,420 football pitches a day

(divide by 365)

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Assuming deforestation was happening at the same pace, 24 hours a day and on every day of the year, how many football pitches are we losing every hour in the Brazilian Amazon alone?

3,420 football pitches a day

(divide by 24)

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Assuming deforestation was happening at the same pace, 24 hours a day and on every day of the year, how many football pitches are we losing every hour in the Brazilian Amazon alone?

3,420 football pitches a day

(divide by 24)

= 142 football pitches an hour

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Evaluating Pie Charts

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What makes a good pie chart?

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What makes a good pie chart?

Easy to read?

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What makes a good pie chart?

Easy to read?

Do we need to see figures?

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What makes a good pie chart?

Easy to read?

Do we need to see figures?

Clear categories?

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What makes a good pie chart?

Attractive?

Easy to read?

Do we need to see figures?

Clear categories?

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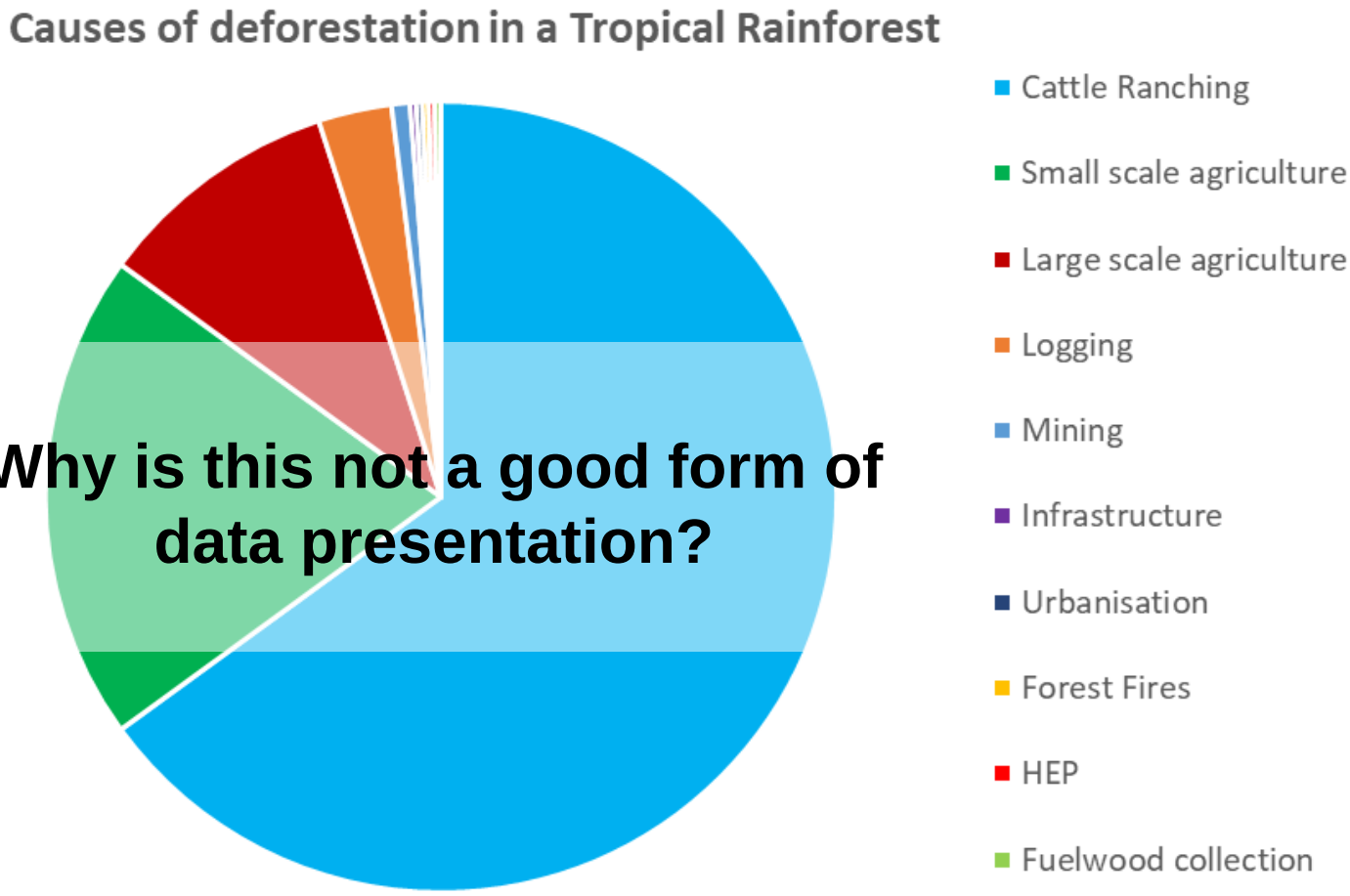

Why is this not a good form of data presentation?

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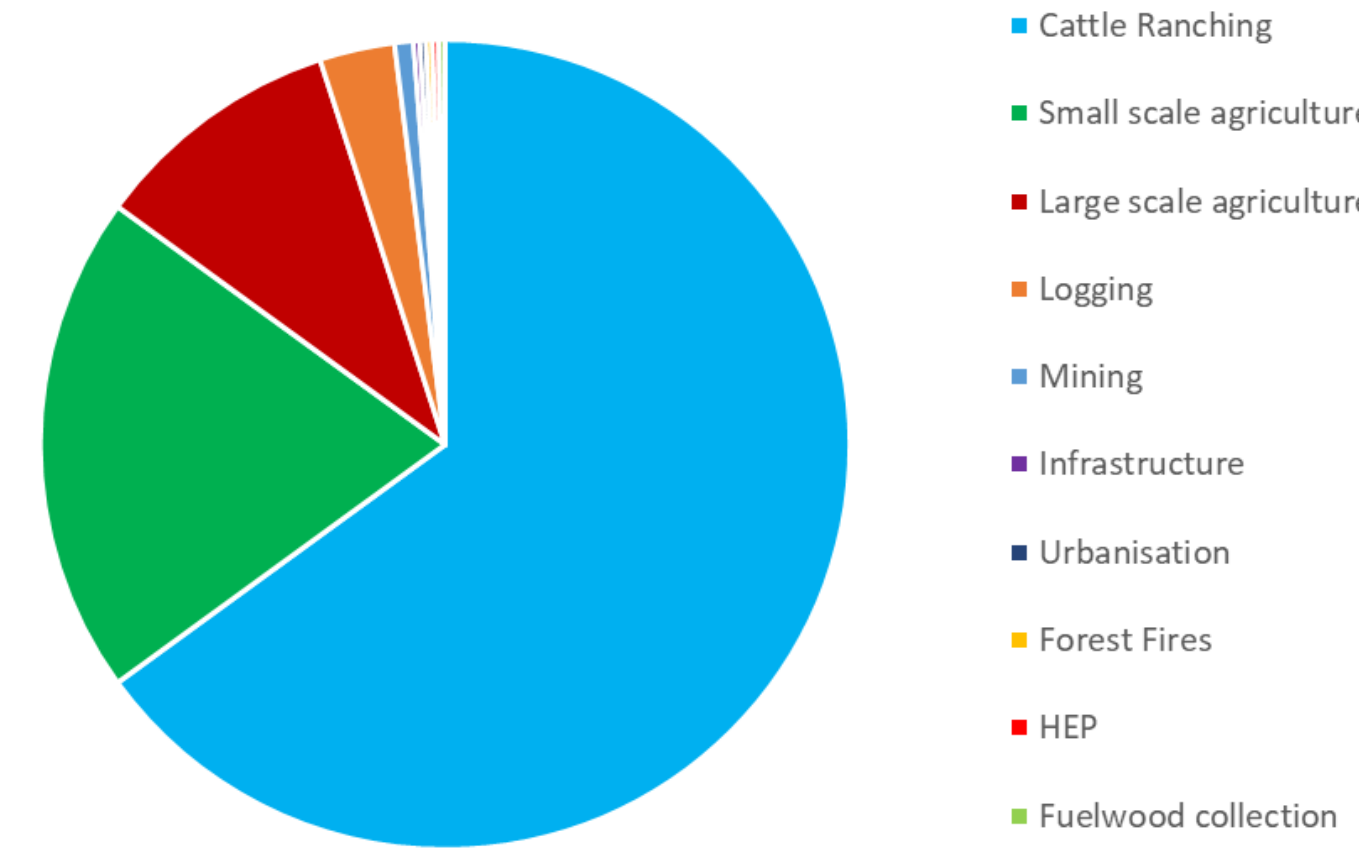
Causes of deforestation in a Tropical Rainforest



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Deforestation in different countries

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Which measure shows the greatest concern looking back at how countries have treated their rainforest?

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Country	Area of forest cover (km²)	Forest Cover	Loss as % of 2004 cover	Rate of deforestation change 2004 - 2014	Loss 2001-2014
Brazil	519,191,664	61.90%	4.90%	-6.00%	38,336,733
DR Congo	199,224,295	87.10%	3.20%	22.90%	7,977,010
Indonesia	160,978,096	85.80%	9.60%	2.40%	18,507,771
Colombia	81,779,083	72.60%	2.50%	-9.70%	2,822,694
Peru	78,069,516	60.90%	2.10%	16.40%	1,949,886
Bolivia	64,520,862	60.00%	4.20%	7.50%	3,394,108
Venezuela	56,531,450	62.80%	1.80%	-13.30%	1,376,709
Angola	55,315,474	44.40%	2.60%	19.40%	1,740,011
Mexico	53,182,952	27.40%	3.70%	-9.90%	2,587,661

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Which measure shows the greatest concern looking forward at how countries may manage their rainforest in the future?

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Which country has arguably been most destructive of its rainforest?

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Which country has arguably been most protective of its rainforest recently?

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