



What caused RPB to become endangered?

Environmental Data Exploration: Temperature

Directions: Explore NOAA's [Climate at a Glance](https://www.ncdc.noaa.gov/cag/statewide/time-series/11/tavg/1/1/1895-2022?base_prd=true&begbaseyear=1901&endbaseyear=2000) website to answer the questions for each box. Note: This website sometimes takes a minute or so to load up!

<i>What patterns do you notice in the data?</i>	<i>Add the change in the RPB system to your RPB ecosystem model.</i> <i>Using your model, identify what components and interactions would be impacted by this change.</i>	<i>Describe how this change would affect the RPB.</i>
Could this change be a cause of the RPB population decline, or is it just correlated? What evidence supports your claim?		

*Full link to the National Oceanic and Atmospheric Administration Climate at a Glance website:

https://www.ncdc.noaa.gov/cag/statewide/time-series/11/tavg/1/1/1895-2022?base_prd=true&begbaseyear=1901&endbaseyear=2000



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Environmental Data Exploration: **Precipitation**

Directions: Explore NOAA's [Climate at a Glance](https://www.ncdc.noaa.gov/cag/statewide/time-series/11/tavg/1/1/1895-2022?base_prd=true&begbaseyear=1901&endbaseyear=2000) website to answer the questions for each box. Note: This website sometimes takes a minute or so to load up!

<i>What patterns do you notice in the data?</i>	<i>Add the change in the RPB system to your RPB ecosystem model.</i> <i>Using your model, identify what components and interactions would be impacted by this change.</i>	<i>Describe how this change would affect the RPB.</i>
Could this change be a cause of the RPB population decline, or is it just correlated? What evidence supports your claim?		

*Full link to the National Oceanic and Atmospheric Administration Climate at a Glance website:

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Environmental Data Exploration: Pesticide Use (Example: Imidacloprid)

Directions: Explore the link below to answer the questions for each box.

Data Source: United States Geological Survey

https://water.usgs.gov/nawqa/pnsp/usage/maps/show_map.php?year=2016&map=IMIDACLOPRID&hilo=L&disp=Imidacloprid

Background: Insecticides, fungicides, and herbicides are all considered pesticides. All three categories of pesticide are used to protect crops and other desired plants. Insecticides protect against insects; fungicides protect against fungus, and herbicides protect against weeds and other undesirable plants.

The data provided is for the use of **Imidacloprid** which is the most widely used insecticide in the world. *Imidacloprid* is often used to pre-treat seeds. The chemical insecticide is then present in all parts of the plant as it grows and develops.

What patterns do you notice in the data?

Add the change in the RPB system to your RPB ecosystem model.

Describe how this change would affect the RPB.

Using your model, identify what components and interactions would be impacted by this change.

Could this change be a cause of the RPB population decline, or is it just correlated?
What evidence supports your claim?



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Environmental Data Exploration: Land Use

Directions: Explore the link below to answer the questions for each box.

Data Source: Early 1800's: https://drive.google.com/file/d/1KshzzCr57I4YrkFPy_9Q1GDLNPr79Dwf/view?usp=sharing 2016: https://drive.google.com/file/d/1-kN7-2NHItmoB5hBgkZGWg2mTR7dfh_2/view?usp=sharing		
<i>What patterns do you notice in the data?</i>	<i>Add the change in the RPB system to your RPB ecosystem model.</i> <i>Using your model, identify what components and interactions would be impacted by this change.</i>	<i>Describe how this change would affect the RPB.</i>
Could this change be a cause of the RPB population decline, or is it just correlated? What evidence supports your claim?		