Holodomor – 3 Issues to Examine

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Grade Level: College Freshman or High School Seniors

Time Frame: Two class periods

National Geography Standards:
Standard 1: How to use maps and other geographic representations, geospatial technologies, and spatial thinking to understand and communicate information
Standard 13: How the forces of cooperation and conflict among people influence the division and control of Earth's surface

Objectives
After this assignment, students should be able to:
- Analyze historical data and draw conclusions
- Analyze maps to examine spatial patterns

Background:
The Holodomor, which means “death by hunger” in Ukrainian, refers to starvation of millions of Ukrainians from 1932-33. Students will examine 3 issues.

1) Collectivization
2) Losses by Nationalities
3) Environmental issues

Lecture Before Exercise
Before the exercise, the teacher may want to give a lecture on the collectivization process (generally)

Also the teacher should explain the difference between oblasts and raions.

Procedures:
1. Go to the website (“Historical Atlas to Great Famine to Famine Web Map): Copy and paste the link http://gis.huri.harvard.edu/
2. Click View the Famine Web Map
3. Divide the class into 3 equal groups:
   A) Environmental
   B) Collectivism
   C) Nationalities
4. Each group will construct maps and charts on a topic in the Great Famine. After creating their maps the groups will compare them with the Direct Losses Maps. Group will further research their topic and present it to the class.

**Administrative Regions of Ukraine**

1. First examine the two types of polygon data in this exercise – Oblasts and Raions
2. Select the layer titled, “Administrative Maps” and click the drop down arrow
3. Put a check 1933 – 04 – 01 and click the drop down arrow
4. Only have a check in “Oblasts on 1 of April 1933”
5. Click inside of each Oblasts to find the English name and write it in the blank map provided
6. Now remove that check and add a check to “Raions on 1 of April 1933”
   a. Raions – within Oblasts,
7. Now remove the check from the Raions layer and recheck the Oblasts layer

EXERCISE: – All groups should create these maps
1. Now under “Population Losses, 1932 - 34”, click the Dropdown Menu arrow and put a check in the box next to the layer titled: “Direct Famine Losses by Region in 1932, per 1000”
   a. Describe the locational area most impacted based on population losses
2. Now click the … (3 dots) and choose “View in Attribute Table”
3. Click the field – “Direct losses per 1000”
   And choose “Statistics”
4. Write down the Average Number into the Excel sheet
5. Click the More Icon located above the Layer list
6. Choose Print
   A) Map Title – Put a Proper Title
   B) Layout – Letter ANSI A Landscape (May need to choose this one first)
   C) Format – JPG
7. Click Print
8. There will be a link provided. Click the Link and either Print the map or Save the Image to added to PowerPoint

9. Click Layer List
10. Now uncheck 1932 per 1000 and repeat Step 2 – 8 for the following layers:
    a. 1932
    b. 1933
    c. 1934
11. Now examine the maps on Direct Famine Losses for each of the years and write a paragraph discussing the following information.
    a. Describe the locational area most impacted based on population losses
    b. What was the Average loss? (Write into Excel Sheet)
12. Create a Chart in Excel with your data (See Excel Example)
    A. Highlight both Columns in Excel (See Excel Sheet with this exercise)
    B. Click the “Insert” tab in Excel
    C. Choose Column – Clustered Columns
    D. Right Click on the Chart and Choose Move Chart – New Sheet
Collectivization Group:

1. Select the map layer titled “Collectivization, 1932-1936”, by clicking the drop down menu

2. Then check the first box from the drop down menu titled, “Collectivized households in 1932, %”

3. Examine the data displayed from this layer and be sure to uncheck the layer when finished.
   A. Describe the locational area most collectivized
   B. What was the Average collectivization (Collect 32)? (Similar steps to first map: Population Losses Steps 2 – 4 - Write into Excel Sheet)

4. Click the More Icon

5. Choose “Print”
   A) Map Title – Put a Proper Title
   B) Layout – “Letter ANSI A Landscape”
   C) Format – “JPG”

6. Click Print

7. There will be a link provided. Click the Link and either Print the map or Save the Image to added to PowerPoint

8. Repeat the steps for the following layers 1934% and 1936%
   A. “Collectivized households in 1934, %”
      i. Describe the locational area most collectivized
ii. What was the Average collectivization? (Write into Excel Sheet)

9. Create a Chart in Excel with your data
   A. Highlight both Columns in Excel
   B. Click the “Insert” tab in Excel
   C. Choose Column – Clustered Columns
   D. Right Click on the Chart and Choose “Move Chart – New Sheet”

10. Now compare Direct Famine Losses with the Collectivization Losses

11. Describe the locational patterns of Collectivization and compare it to the Population Losses.

12. Complete research on Collectivization in Ukraine and create a presentation with your maps and charts.

**Losses by Nationalities Group:**

1. Click the “Population Losses” drop down menu and choose the layer titled – “Total Losses by Nationalities 1933 per 1000 of ethnic group; oblast chart”

2. **Total Losses by Nationalities, 1933, per 1000 of ethnic group; oblasts; chart***

   A) In which areas were the number of Ukrainian losses highest?
   B) What was the average? (Similar steps to first map - Write into Excel Sheet)
   C) Examine the Averages for Russians, Jews, Poles, and Germans (Write into Excel Sheet)

13. Click the More Icon

14. Choose “Print”
   A) Map Title – Put a Proper Title
   B) Layout – Letter ANSI A Landscape
   C) Format – JPG

15. Click Print

16. There will be a link provided. Click the Link and either Print the map or Save the Image to added to PowerPoint
17. Create a Chart in Excel with your data
   A. Highlight both Columns in Excel
   B. Click the Insert Tab in Excel
   C. Choose Columns – Clustered Columns
   D. Right Click on the Chart and Choose Move Chart – New Sheet

18. Now compare Direct Famine Losses with the Losses with Nationalities
19. Describe the locational patterns of Nationalities and compare it to the Population Losses.
20. Complete research on Ukrainian nationalities under Stalin and create a presentation with your maps and charts.

Environmental

The Famines of the 1920’s #2 and #3

1. Click The Famines of the 1920, expand the list of layers. It can be expanded by clicking a single time the small right facing triangle to the left of the layers title.
2. Once you expand the heading, 3 map layers should then appear with an empty check box next to each of them.

3. First, select the 2nd box titled; “Famine Intensity in Ukraine, April 1922. Famine stricken rural population %”. Once the box is checked you can examine the data and observe the differences between certain oblasts and raions of Ukraine.

   a. Describe the locational area most impacted by the famine.

4. After you are done observing that map layer

5. Click the More Icon

6. Choose “Print”
   A) Map Title – Put a Proper Title
   B) Layout – Letter ANSI A Landscape
   C) Format - JPG

7. Click Print

8. There will be a link provided. Click the Link and either Print the map or Save the Image to added to PowerPoint

9. Un-check the box next to it to turn the layer back off.

10. Next, check the box next to the third of the layers titled, “Officially Declared Disaster Areas in Ukraine, 1928-1929”.

11. Examine the spatial patterns.
   a. Describe the locational area most impacted by the 1928 – 1929 famine.

12. Print the Map

13. Now compare Direct Famine Losses with the 1922 and 1928-29 Famine Maps
   i. Similar Patterns?
ii. Location of Higher areas?

Ecology and Agriculture Maps

14. Uncheck the last map and Click Ecology and Agriculture, 1937
15. Put a check in the Ecological Zones of Ukraine by Kubijovyc, 1937
   A. Describe the location patterns of:
      a. Dry maritime steppe
      b. Dry northern steppe
      c. Boreal forest steppe
      d. Boreal mixed forest
   B. Comparing this map to the Population Losses Maps
16. Now Print this map by completing similar steps: 5 – 9.
17. After unchecking the Ecological Zones Map, please put a check in Wheat Growing Areas, 1937, percent
18. Describe the locational patterns and compare it to the Population Losses.
19. Complete research on the following and create a presentation with your maps.
   A. 1922 and 1928-29 famines (Compared to Population Losses 1932 – 34)
   B. The ecological zones (Compared to Population Losses 1932 – 34)
      Which zone did people have a better chance of surviving? Why?
   C. Main Grain Producing areas in Ukraine (Compared to Population Losses 1932 – 34)

Class Discussion

Students return to class the next time to discuss their analysis of the maps and research

1. Each group should present their findings to class
   A) Students should come to the front of the class and present their findings (Maps, Charts, and Research)
   B) As a class, please try to answer the following question – What was the cause(s) of the Great Famine?
2. Then the teacher should present more information on The Great Famine. Here are some websites with presentation materials:

References

Appendix

Appendix 1.1 - Map
Appendix 1.2 – Excel sheets

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