

APES CASE STUDIES - WATER RESOURCES

This unit identifies several different approaches to supplying water to the population. Your group will be assigned one of the case studies and summarize the issue for the rest of the class. Specifically I am asking you to include the following information:

1. Description of the area and/or project, as well as source of the water.
2. Description of the problem it could also be an explanation of the costs (not always just monetary) and benefits associated with the project.
3. Identify the outcome - was project beneficial or were there negative consequences (or both)?
4. In hindsight, what could have been done differently or what could the alternatives have been?
5. What's new with the case (within the past two years)?
6. List of sources/references used; include properly cited (APA) sources.

- ❖ Research should be presented as a **short presentation** (approximately 5 minutes using PowerPoint or Prezi)
- ❖ A rubric is included

The case studies, along with the textbook page 242 and some websites to get you started, include:

- ❖ Three Gorges Dam - China
 - <http://www.internationalrivers.org/china/three-gorges-dam>
 - <http://www.scientificamerican.com/article.cfm?id=chinas-three-gorges-dam-disaster>
 - http://sciencecases.lib.buffalo.edu/cs/files/three_gorges_dam.pdf
- ❖ Colorado River Basin project
 - <https://www.usbr.gov/uc/rm/crsp/>
 - <https://www.coloradocollege.edu/dotAsset/e57e7c73-2983-477b-a05d-de0ba0b87a00.pdf>
- ❖ James Bay watershed project - Canada
 - <https://www.canadiangeographic.ca/article/james-bay-damming-project-water-under-dam>
 - <http://pubs.aina.ucalgary.ca/arctic/Arctic44-3-iii.pdf>
- ❖ Aral Sea -Uzbekistan and Kazakhstan
 - <http://www.bbc.com/news/resources/idt-a0c4856e-1019-4937-96fd-8714d70a48f7>
 - http://earthobservatory.nasa.gov/Features/WorldOfChange/aral_sea.php
- ❖ Israel's desalination project
 - <https://www.scientificamerican.com/article/israel-proves-the-desalination-era-is-here/>
 - <http://www.mcclatchydc.com/news/nation-world/national/article24765472.html>
- ❖ Ogallala Aquifer - Midwest US
 - <https://www.scientificamerican.com/article/the-ogallala-aquifer/>
 - <http://www.nationalgeographic.com/magazine/2016/08/vanishing-aquifer-interactive-map/>
- ❖ Mexico City Water Crisis
 - https://www.nytimes.com/interactive/2017/02/17/world/americas/mexico-city-sinking.html?smid=fb-share&_r=0
 - <https://nacla.org/article/mexico-citys-water-crisis>
- ❖ Cape Town, South Africa Water Crisis
 - <https://www.cnn.com/2017/05/31/africa/cape-town-drought/index.html>
 - <https://www.voanews.com/a/south-africa-cape-town-water-crisis/4262500.html>

❖ New York's aqueduct/water transfer project

- http://www.nyc.gov/html/dep/html/drinking_water/history.shtml
- <http://www.riverkeeper.org/nyc-watershed/basics/>

Water Resources Case Studies Rubric – Project:

Members_____

You will be graded on:

Description of the issue or project 5 pts

Description of the problem 5 pts

Identification of the outcome. Benefits and/or costs 5 pts

Discussion of different approach or alternatives 5 pts

Description of what's new 5 pts

Professional, Neat, Readable 5 pts

Sources provided 5 pts