**Water Footprint Homework Assignment**

**10 points, Due date \_\_\_\_\_\_\_\_\_\_\_**

This homework assignment consists of three parts. First, calculate your water footprint in 3 ways. Second, do the readings. Third, answer the questions given.

Part 1 - Calculate your water footprint in three ways, keeping track of the information the calculators are using to make their estimates, along with your results. First, use the quick calculator (first citation below), then work through the *extended* calculator (second citation below) and see how your footprints compare. Third, work through either calculator, but change your country or some other input. Bring your results to the next class.

Part 2 - Read the articles listed below under Readings. This will help you assess the concept, value, and uncertainties of water footprints.

Part 3 - With regard to what to submit for a grade...

1. Provide the results of your water footprint quizzes. (4 pts)
2. Write a paragraph comparing the results, your take on their relative accuracy, and the impact of changing your country of origin or some other input. (3 pts)
3. Write a paragraph consisting of your assessment of the value of water footprint analysis. What is to be learned from it? How can it be used? What are its limitations? (3 pts)

Water Footprint Calculators

1. Chapagain, AK, Hoekstra, AY and Mekonnen, M (2007). Your Water Footprint - The Quick Calculator. University of Twente. <http://waterfootprint.org/en/resources/interactive-tools/personal-water-footprint-calculator/>
2. Chapagain, AK, Hoekstra, AY and Mekonnen, M (2007). Your Water Footprint - Extended Calculator. University of Twente. <http://waterfootprint.org/en/resources/interactive-tools/personal-water-footprint-calculator/personal-calculator-extended/>

Readings

Read the following articles in preparation for the next two class periods.

1. Water Footprint Network (2016). National Water Footprint. <http://waterfootprint.org/en/water-footprint/national-water-footprint/>
2. Hoekstra, AY (2012). The hidden water resource use behind meat and dairy. *Animal Frontiers*, 2(2): 3-8. <http://www.waterfootprint.org/Reports/Hoekstra-2012-Water-Meat-Dairy.pdf>