



# WATER FACTS ARE "COOL"

1. Water is made up of two elements, hydrogen and oxygen. Its chemical formula is H<sub>2</sub>O.
2. Each molecule of water is made up of two hydrogen atoms bonded to a single oxygen atom.
3. Water has three different states, liquid, solid and gas.
4. You obtain your drinking water from Claude H. Dyal Water Treatment Facility.
5. The word water usually refers to water in its liquid state. The solid state of water is known as ice while the gas state is known as steam or water vapor.
6. Water covers 70% of the Earth's surface.
7. The three largest oceans on Earth are the Pacific Ocean (largest), the Atlantic Ocean (second largest), and the Indian Ocean (third largest).
8. The elevated water tank on U.S. 1 and Peachtree St. in Cocoa holds 1.5 million gallons of water and has three U.S. flags painted on it.
9. Water from a sea or ocean is known as salt water. On average, every kilogram (2.2 lb.) of salt water contains around 36 grams (1.2 oz.) of dissolved salt.
10. The freezing point of salt water is 28.4 degrees Fahrenheit.
11. The longest river in the world is the Nile River (4,132 miles); the second longest river is the Amazon (4,000 miles).
12. The Claude H. Dyal Water Treatment Facility serves the areas of Port St. John, Canaveral Groves, Cocoa, Cape Canaveral, Cocoa Beach, Port Canaveral, Merritt Island, Rockledge and North Melbourne.
13. The longest river in the U.S. is the Mississippi river (3,902 miles).
14. The water cycle involves water evaporating (turning in to a gas), rising to the sky, cooling and condensing into tiny drops of water or ice crystals that we see as clouds, falling back to Earth as rain, snow or hail before evaporating again and continuing the cycle.
15. Pure Water has no smell and no taste; it also has a pH level around seven.
16. The Claude H. Dyal Water Treatment Facility sells water to the Great Outdoors, City of Titusville, Port Canaveral, NASA, Cape Canaveral Air Force Station and Patrick Air Force Base.
17. Pure water boils at 212 degrees F and freezes at 32 degrees F.
18. Water expands as it cools. In freezing conditions, water has been known to burst water pipes as it turns to ice.
19. Water is used to irrigate farm crops to produce the food you eat.
20. Firefighters use water to extinguish fires.
21. Each individual City (Cocoa, Cape Canaveral, Cocoa Beach, and Rockledge) and Brevard County provides sewer and reclaimed water service to their customers.
22. Only 3% Of the Earth's water is fresh water. 97% of the water on the Earth is salt water.
23. The Claude H. Dyal Water Treatment Facility delivers water to homes and businesses through underground transmission mains, ranging in size from 36", 48", and 54" in diameter.
24. Electricity can be created from hydropower, a process that uses water to drive water turbines connected to generators.
25. The Claude H. Dyal Water Treatment Facility is located in Orange County.

26. In one year the average American family uses more than 100,000 gallons of water inside and outside.
27. Americans use more water each day flushing the toilet than they do in any other activity.
28. The average faucet flows at a rate of two gallons per minute.
29. Taking a bath requires up to 70 gallons of water. A five-minute shower uses 10-25 gallons.
30. A running toilet can waste up to 200 gallons of water per day.
31. The first water pipes in the U.S. were made from wood that was bored logs charred with fire.
32. A gallon of water weighs 8.34 pounds.
33. The Claude H. Dyal Water Treatment Facility obtains water from Taylor Creek Reservoir (surface water) and wells (ground water).
34. A cubic foot of water weighs 62.4 pounds.
35. One inch of water covering one acre (27,154 gallons) weighs 113 tons.
36. It takes more water to manufacture a new car (39,090 gallons) than to fill an above ground swimming pool.
37. It takes more than ten gallons of water to produce one slice of bread.
38. Over 713 gallons of water go into the production of one cotton t-shirt.
39. The City of Cocoa is interconnected with the City of Melbourne for drinking water and is interconnected with the City of Rockledge for reclaimed water.
40. 1,000 gallons of water are required to produce one gallon of milk.
41. Roughly 634 gallons of water go into the production of one hamburger.
42. At one drip per second a faucet can leak 3,000 gallons per year.
43. Water makes up between 55-79% of the human body weight.
44. The City of Cocoa's service area covers 268 square miles and maintains 1,321 miles of underground pipe.
45. The City of Cocoa maintains approximately 7,277 fire hydrants. (this does not include private fire hydrants)
46. Reclaimed water can be used to irrigate the yard and garden. (all fruits and vegetables should be washed thoroughly or skinned prior to ingesting)
47. Reclaimed water can be used to flush toilets in commercial buildings.
48. The St. Johns River Water Management District sets the irrigation guidelines for the City of Cocoa's service area.
49. You can save up to four gallons of water a day by turning off the faucet while you brush your teeth.
50. Water can dissolve more substances than any other liquid including sulfuric acid.

## **Know your Days—Daylight Saving Time** (2<sup>nd</sup> Sunday in March until the 1<sup>st</sup> Sunday in November)

**Residential Irrigation—Odd numbered addresses—Wednesday & Saturday**

**Even numbered addresses—Thursday and Sunday—Commercial irrigation—Tuesday & Friday**

**Irrigate before 10:00 am and after 4:00 pm only if needed**

**Reclaimed water is exempt from irrigation restrictions within the City Limits of Cocoa.**

**Please call the City you reside in to find out if there are reclaimed water restrictions.**

*Some of the water facts were cited from the following websites:  
<http://www.sciencekids.co.nz/sciencefacts/water.html> and  
[http://water.epa.gov/learn/kids/drinkingwater/water\\_Trivia\\_facts](http://water.epa.gov/learn/kids/drinkingwater/water_Trivia_facts)*