













What is pH?

The combination of two Hydrogen atoms with one Oxygen atom forms the "molecule" substance of life on this planet - WATER. Water not only makes up 70% of the planet, it also makes up about 70% of the human body. A large majority of all we are physically is simply hydrogen and oxygen.



2 ATOMS OF HYDROGEN

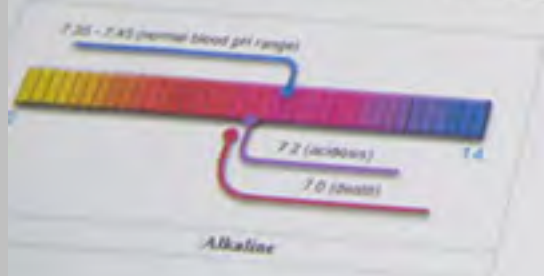
1 ATOM OF OXYGEN

As it turns out, the function of these two atoms are essential to our body's ability to live. Without oxygen, the complex human cell will not survive. The hydrogen atoms is a major player in the metabolic and chemical reactions of body as well. The combination of these two atoms (water) plays a major role in all the processes of physical life.

A certain number of molecules of water (H₂O) naturally dissociate into the hydrogen H⁺ ion and into the OH⁻ ion. The relationship between the concentrations of these two dissociated ions is expressed with what is called the pH scale. The term pH stands for "potential" of "Hydrogen". The more hydrogen ions, the more acidic the solution is. The fewer hydrogen ions the more alkaline (basic) the solution is.

As the kilometer is a measure of distance, and the hour a measure of time, the pH unit serves the degree of acidity or basicity of a solution. pH is measured on a scale of zero to ten, with zero being most acid, fourteen being most alkaline and seven being mid-range.

Level of blood is the most important balance systems of the body. Look at the importance pH as shown below.



Kevin Bromley - 10/11/07

pH

The NCRWQC water quality objectives for pH in the Van Duzen River are 6.5 to 8.5. All sites with the exception of Cummings Creek, had at least one measurement where pH was less than 6.5 (table 4 and figure 10). There were no pH measurements greater than 8.5 at any of the monitoring sites. Overall the pH values for the lower Van Duzen River Basin meet the water quality objectives for good water quality. There was no significant difference in pH values among the seven monitoring sites (p -value = 0.37).

Table 4. Descriptive statistics for pH values from monitoring sites in the lower Van Duzen River Basin for the time period of October 2006 to April 2008 (N=32).

Site	Minimum Date	Maximum Date	Range	Mean	St. Dev
Van Duzen River at Waters	6.4	8.4	2.0	7.2	0.62
river mile 112	12/10/2006	8/10/07			
Van Duzen River at	6.2	8.2	2.0	7.5	0.57
Rainbow Br. (river mile 18)	12/10/06	10/12/07			
Wolfspoon Gulch	6.2	7.9	1.7	7.3	0.46
Yager Creek	2/10/07	3/30/07			
	6.0	7.0	1.0	7.1	0.52
Cummings Creek	2/10/07	8/10/07			
	6.6	8.1	1.5	7.4	0.46
Holy Creek	2/10/07	7/30/07			
	6.2	7.8	1.6	7.1	0.48
Grizzly Creek	11/15/07	11/15/07			
	6.4	8.2	1.8	7.1	0.55
	12/10/07	8/10/07			

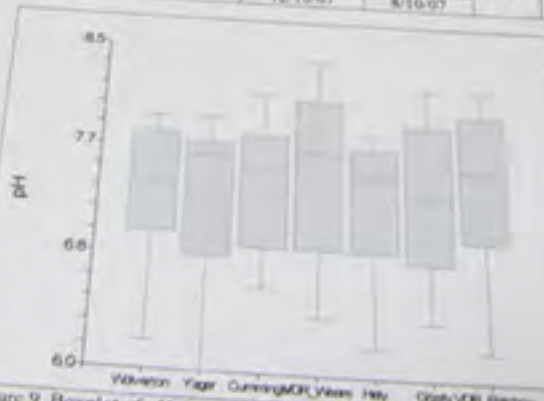


Figure 9. Box plot of pH values for seven monitoring sites in the lower Van Duzen River Basin for the time period of October 2006 to April 2008.

What is Turbidity? - Think Clarity!

Turbidity is a measure of the degree to which the water is suspended particulates.

The more total suspended solids in the water, the more turbid it is.

Turbidity is considered as a good predictor of water quality.

Turbidity is measured in NTU, a nephelometric turbidity unit.

What causes turbidity?

There are various parameters, influenced by various factors, that cause turbidity.

- Phytoplankton
- Sediments from erosion
- Resuspended sediments from the bottom
- Waste discharge
- Algae growth
- Urban runoff

Which is the maximum?

The WHO (World Health Organization) recommends a maximum of 5 NTU, and a maximum of 10 NTU for drinking water.

How does turbidity affect water quality?

When the turbidity is high, it can interfere with the disinfection process, and it can also cause aesthetic problems.



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alic.fair Manufacturing Acid Rain pH

... chemicals, just like hot and cold are two extremes bases can cancel out their extreme effects; much like water temperature. A substance that is neither acidic

... distance is. It ranges from 0 to 14. A pH of 7 is neutral. Anything above 7 is basic. Each whole pH value below 7 is 10 times more acidic than a pH of 6. The same holds true for pH alkaline—another way to say basic—than the next times more alkaline than a pH of 9.

... cals are mixed with water, the mixture can be acidic substances, while laundry

... "reactive." These chemicals can cause severe damage to your car. Automobile batteries contain a lot of acid. Household drain cleaners often contain strong bases.

... some common items:

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2 ATOMS OF HYDROGEN **1 ATOM OF OXYGEN**

As it turns out, the function of these two atoms are essential to our body's ability to live. Without oxygen, the complex human cell will not operate. The hydrogen atom is a major player in the metabolic and chemical reactions of body as well. The combination of these two atoms (water) plays a major role in all the processes of physical life.

A certain number of molecules of water (H₂O) naturally dissociate into the hydrogen H⁺ ion and into the OH⁻ ion. The relationship between the concentrations of these two dissociated ions is expressed with what is called the pH scale. The term pH stands for "potential" of "Hydrogen". The more hydrogen ions, the more acidic the solution is. The fewer hydrogen ions the more alkaline (base) the solution is.

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The pH level of blood is the most important balance systems of the body. Look at the importance of blood pH as shown below.

Karen Bromley - 2017

pH

The NCRWQCA water quality objectives for pH in the Van Duzen River is with the exception of Cummings Creek, had at least one measurement with 6.3 (table 4 and figure 10). There were six pH measurements greater than monitoring sites. Overall the pH values for the lower Van Duzen River 1 quality objectives for good water quality. There were no significant differences among the seven monitoring sites (p -value = 0.37).

Table 4. Descriptive statistics for pH values from monitoring sites in Basin for the time period of October 2006 to April 2008 (N=32).

Site	Minimum	Maximum	Date
Van Duzen River at Weavers (river mile 11)	6.4	8.4	12/14/2006
Van Duzen River at Rainbow Br. (river mile 18)	6.2	8.2	12/10/06
Wolferton Gulch	6.2	7.9	2/10/07
Yager Creek	6.0	7.9	2/10/07
Cummings Creek	6.6	8.1	2/10/07
Hely Creek	6.2	7.9	11/15/07
Grizzly Creek	6.4	8.0	12/10/07



















