

In a study of reaction time under the influence of alcohol, individuals are given varying amounts of alcohol and their time (in seconds) to correctly type in a code flashed on a computer screen is measured. Because individuals' reaction times may vary individuals are used as blocks by reusing each individual. The order of the amount of alcohol given is randomized for each individual and enough time is allowed between trials so that any residual alcohol is out of an individual's system by the time the next amount is administered. Ten individuals take part in the experiment.

**Response:** Reaction time (seconds)

**Conditions:** Amount of Alcohol

**Material:** Ten individuals

**Control of Outside Variables:**

Amount of liquid (alcohol + 7 Up) is set at 8 oz.

Time to drink beverage set at 10 minutes.

Time between drinking and reaction time task is set at 15 minutes.

Length and complexity of code is the same for each individual.

**Randomization:**

Each individual will experience all of the conditions. The order will be randomly assigned for each individual. This is a randomized complete block design where blocks are formed by reusing individuals.

**Replication:**

There are 10 individuals in the Experiment

**Data:**

Individual	Amount of Alcohol		
	(1) None	(2) 2 oz	(3) 4 oz
1	1.3	1.5	2.1
2	2.4	2.5	3.0
3	1.9	2.0	2.6
4	1.5	1.5	2.0
5	2.4	2.6	2.9
6	0.9	1.1	1.7
7	1.2	1.2	1.9
8	1.2	1.2	2.1
9	2.9	3.4	3.8
10	3.7	4.0	4.3