# **Role of Dieting and Food Habits on Obesity**

An Interactive Qualifying Project Report
submitted to the Faculty of
WORCESTER POLYTECHNIC INSTITUTE
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Degree of Bachelor of Science

by:

Jason Butler Carmel Kozlov Stephanie Manson Ashley Saylor

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Advisor:

Satya Shivkumar

#### **Abstract**

Obesity rates in America are high and weight loss is a major concern. Many Americans turn to commercial diets and other weight loss options hoping to lose weight. This project examines the effectiveness of commercial diets, and America's attitude towards nutritional labeling and healthy eating campaigns. To understand the food habits of Americans and local communities, a variety of surveys were conducted. The surveys concluded that Worcester Polytechnic Institute (WPI) students' dietary habits are not affected by nutritional labeling. Additionally, it was observed that the caloric intake of these students is well above the FDA recommended guidelines. It was also observed that within the local communities, only a small percentage of people read the nutritional labels on food products. It was found that generally, low carbohydrate diets result in quicker weight loss compared to low fat diets. WPI can make several improvements to create a healthier campus, such as introducing healthier vending machine snacks and breakfast options, and reducing the amount soda available on campus.

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# **Authorship Page**

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# 1.0 Introduction

In the past few decades there has been a major change in the eating habits of the Western World which has caused obesity rates in the United States to grow. The Center for Disease Control and Prevention released that as of 2008, 26.5% of adult Americans are obese. Child obesity rates have increased as well. Among adolescence aged 12–19 years, obesity rates have increased from 5.0% to 17.6% in the past 25 years.

Many Americans turn to commercial diets in hope to lose the excess pounds. Commercial diets (also referred to as fad diets in literature) have been developed to allow people to lose weight purportedly without the severe feelings of deprivation.<sup>2</sup> However, the long-term effects of such fad diets are unknown,<sup>3</sup> and many Americans who follow these fad diets are unable to achieve their weight loss goals. This has been a cause for controversy.

Other causes for controversies have been weight loss options such as surgery, hypnosis and even weight loss pills. Some obese patients turn to bypass surgery to restrict the amount of food they can ingest. Those who turn to hypnosis hope that by controlling their mind, they will be able to control their weight loss. Diet pills are often referred to as magic pills, magically making the excess weight disappear. Exercise is another weight loss option that many people try to avoid.

One objective of this project is to investigate the reasons obesity rates are increasing in the United States. By researching in journals and books, this project will highlight the biological needs of the human body for nutrition. The nutritional recommendations from the US Government will then be discussed. Thereafter, trends in eating habits over the past few decades will be examined. To understand the food habits of Americans and local communities, a variety of surveys were conducted. By doing this, a better picture of eating habits and nutrition awareness in the local community was formed.

Another goal of this project is to evaluate popular commercial diets. A survey was conducted to see which commercial diets are currently popular amongst Americans. These popular commercial diets are then examined using available literature to better understand their scientific justification, efficacy and perception in the medical community. The project also researched other weight control options, such as hypnosis, diet pills, surgery and exercise to evaluate their success.

Finally, the project suggests how a person can lose weight and maintain their weight loss.

Additionally, suggestions are made on how Worcester Polytechnic Institute can improve healthy eating on campus, and how the US Government can promote healthy eating.

# 2.0 Objectives

The objectives of this project are to:

- Understand the nutritional needs of an average person.
- Study the food habits of Americans over the past few decades to determine its effects on obesity.
- Investigate the effects of different weight control options such as exercise, dieting pills, hypnosis and surgery.
- Compare popular commercial diets and understand their advantages and disadvantages.
- Examine various options for losing weight and maintaining a desired weight.
- Discuss ways Worcester Polytechnic Institute can improve healthy eating on campus.
- Discuss ways the US Government can promote healthy eating.

# 3.0 Methodology

Various methods were used to obtain data on the nutritional aspects of diets, factors controlling obesity, and on the effectiveness of popular commercial diets. The available literature was examined to highlight the major constituents of foods and the nutritional requirements for an average American. To understand the food habits of Americans and local communities, a variety of surveys were conducted. Details pertaining to these methods are listed in the following sections.

## 3.1 Efficiency of Diets

There are many commercial diets on the market. There is currently no literature stating which commercial diets are the most popular ones. In a study conducted by Edward Weiss, et al, it was found that in 2001 7.3% of adults trying to lose weight followed a special diet such as Dr. Atkins, other high-protein or low-carbohydrate diet, Zone and grapefruit diet. Additionally, 6.8% joined a weight loss program such as Weight Watchers, Jenny Craig, Tops, or Overeaters Anonymous. However, the study does not specify which of the programs and diets were the most popular.

The primary goal of the Diet Efficiency survey was to find out which specific commercial diets are popular, and how happy the dieters were with each diet they had tried. The survey was conducted online, and the population of survey participants included friends and family of the project members, various businesses, and the Worcester Polytechnic Institute (WPI) community.

The first few questions of the survey asked the participant for their age, sex and whether or not they have ever been on a diet. The survey went on to list different popular diets and asked the participant to list the diets that they have been on. The participant then rated each diet on a scale from 0 to 5, where 0 represented that they did not lose any weight at all with this program,

and 5 representing their satisfaction with the amount of weight lost following that diet. Figure 1, 2 and 3 show screen shots of the survey.

Efficiency of Diets
Thank you for taking our survey. Any information provided is anonymous and greatly appreciated.
* Required
Gender *
Female
Age *
19 and under
© 20-29
© 30-39
© 40-49
© 50-59
© 60-69
70 and over
Have you ever been on a diet to lose weight? *
Yes
⊕ No
Have you ever been on one or more of the following diets? *
Check all that apply  Atkins
South Beach Diet
Weight Watchers
Jenny Craig
Nutrisystem
□ Alli
Zone
Never been on a diet
l've been on diets - but not a fad diet
Other:
Did your diet plan include exercise or did you exercise while you were on a diet? *
⊕ Yes
⊚ No
N/A - Never been on a diet plan

Figure 1 - Efficiency of Diets Survey

	0	1	2	3	4	5	
did not lose any weigh	ht 🔘	0	0	0	0	0	Very effective die
How would you rate the						et 5	
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Figure 2 - Efficiency of Diets Survey

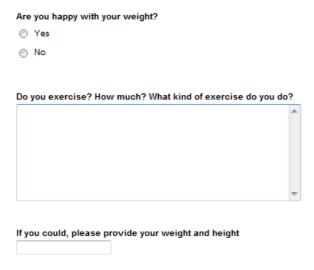


Figure 3 - Efficiency of Diets Survey

After participants rated each diet, they were asked if they were happy with their weight, and whether or not they exercise regularly. Finally, survey takers had the option to provide their weight and height, which most participants did. A copy of the results can be found in Appendix 12.1. Overall, the survey had 634 participants, 374 females and 260 males.

# 3.2 Food Nutrition Awareness Survey in Morgan Dining Hall in Worcester Polytechnic Institute

In this survey the food nutrition awareness of the students dining in Morgan Dining Hall of WPI was examined. For college students at Worcester Polytechnic Institute who dine at the Morgan Dining Hall, nutritional information for food items is not directly available when they pick out their food items. The purpose of this survey was to see if providing nutritional information in front of each food item would change the amount of food the students were eating. During the preparation for the food survey, it was found that there were binders in the front of the dining hall containing some nutritional information for meals served at the dining hall.

The survey was conducted in person in the Morgan Dining Hall and was divided into two parts. In the first part, random students were approached after they had sat down with their food and were asked if they wanted to participate in a survey. They were then asked what they were eating and drinking. They were asked to guess the caloric values of the food items they were eating. They were also asked how many Calories they were supposed to be eating each day. Additionally, they were asked if they had ever used the nutritional binders in the front of the dining hall. Finally, they were asked if they would like to see the nutritional information in front of each food item and if it would change how much food they would eat. The project members had the set of questions on a piece of paper and recorded the student responses.

In the second part of the survey, nutritional information was present for popular food items. It was conducted 2 weeks after the first part of the survey was conducted, on the same day, when the same food items was being served. The main warm meal, special fries and Chicken Nuggets were chosen to have their nutritional information presented, as long as pizza, soda, and chocolate chip cookies. The survey was conducted with the help of the manager of the Morgan Dining Hall, Leslie Lofgren. Ms. Lofgren provided nutritional information for some of the food items that were chosen. She contacted the distributers of the Special Fries and the Chicken Nuggets that are offered to the students to obtain the nutritional information.

The caloric information and serving size for the food items were printed and placed in front of each food item. Students were approached after they sat down with their food. They were asked if they had seen the nutritional information posted in front of the food items and if the nutritional information influenced their food choices.



Figure 4 - Survey Setup

Figures 4 and 5 show the setup that was used to display the nutritional information of the food items. In front of the fries and the chicken nuggets, a sign with the serving size and the Calorie content of the item was displayed.



Figure 5 - Survey Setup Close-up

Identical prints were included for the pizza, soda and cookies. When presenting the information, it was placed in an area that was easy to see. Additionally, the font was large enough for people to read from a distance.

In the first part of the survey, 103 students participated, 52 of which were females and 51 of which were males. They survey took 2 hours to conduct, and only 3 students did not want to participate in the survey. The second part of the survey had 94 students participate, with 38 females and 56 males. The questioner used can be found in appendix 12.2.1 and results in appendix 12.2.2.

#### 3.3 Nutrition Label Awareness

Nutrition labels on food items and groceries provide plenty of information that can help a person determine if the food items is high in Caloric value, fat content, or if it is made of substances they are not familiar with (which indicates that it is a processed food). In an article published by the New York Times, it was found that 85% of the participants read the nutritional labels on the food items.<sup>5</sup> However, the survey was done over the phone, and there was no extensive data in the article describing the survey.

There is a great number of published articles indicating the perception of food labels, as well as factors determining the likelihood of a person to read a food label. However, recent research outlining the percentage of people using nutrition labels in supermarkets is not available. In order to gain a better understanding of the percentage of people who use nutrition labels to pick out new food items in the supermarket this nutritional label awareness survey was conducted.

The nutritional label awareness survey was conducted in the *Price Chopper* supermarket in Worcester, MA. Participants were chosen randomly during their grocery shopping. They were asked if they always read the nutritional information when they are buying a new food item. Their gender and age range were also noted. A total of 50 people participated in this survey. It is important to note that the survey was conducted in a mostly blue-collar neighborhood.

### 3.4 Healthy Living and Easy Dining on \$37 a Week

The Economic Research Service of the United States Department of Agriculture (USDA) reported that in 2008, the average American was spending \$37.85 per week (\$1,973 per year) on "food at home". To see how much food this amount can buy, an experiment was conducted. To see how much healthy food \$37 can buy and how much processed food \$37 can buy items were picked at a local supermarket. The items selected were for a week's worth of food and were diverse enough to create different food items for each meal of the day. Additionally, a weekly food menu consisting only of items from fast food restaurants was created for \$37. This information will help with the discussion and analysis of the obesity problem in the United States.

## 3.5 Worcester Polytechnic Institute Healthy Eating Campaigns Survey

There are many companies trying to promote their healthy food items, and many Government sponsored health campaigns. There are different food items, such as Cheerios, and Yoplait Yogurt that have advertisements promoting their different health benefits. Cheerios claims to be a "heart healthy cereal" and that it "lowers cholesterol". Yoplait commercials highlight their low-Calories and usually involve a character that lost weight by eating their product.

The US Government sponsors campaigns such as the "Incredible Edible Egg" and MyPyramid to try to get more people to eat healthy and be conscious about their nutritional intake. On the WPI campus vending machines have green leaves next to food items containing less than 100 Calories per serving to help customers purchase low-Calorie items. The purpose of this survey was to:

• See how the WPI community reacts to commercials for foods claiming to be "healthy"

- See how the WPI community reacts to Government sponsored health campaigns.
- See if the WPI community uses the green leaves in the vending machines.
- See what the WPI community thinks that WPI should do to promote healthy eating on campus, and what the US Government should do to promote healthy eating in the entire nation.

The survey was conducted through a web-based survey that was sent out to the entire WPI community and had a total of 218 responses. Figure 6 and 7 show the screen capture of the survey that was sent out. The complete results can be found in appendix 12.3.

# **Healthy Eating Campaign Survey** \* Required Gender \* Female Male Have you seen the Cheerios commercials promoting this "healthy" cereal? If so, are you more inclined to buy Cheerios? Yes, I have seen these commercials and they influenced me Yes, I have seen these commercials but I ignored them No, I have not seen these commercials Have you seen the Yoplait commercials promoting their light yogurt products? If so, are you more inclined to buy this product? Yes. I have seen these commercials and they influenced me Mes, I have seen these commercials but I ignored them No, I have not seen these commercials Have you seen the "Incredible Edible Egg" commercials? Do they influence you to eat more eggs or eat healthier? I have seen these commercials and they have influenced me I have seen these commercials and I ignored them I have not seen these commercials Have you ever visited MyPyramid.gov to get information about healthy eating?\* Yes No I have never heard of MyPyramid.gov

Figure 6 - Healthy Eating Campaign Survey

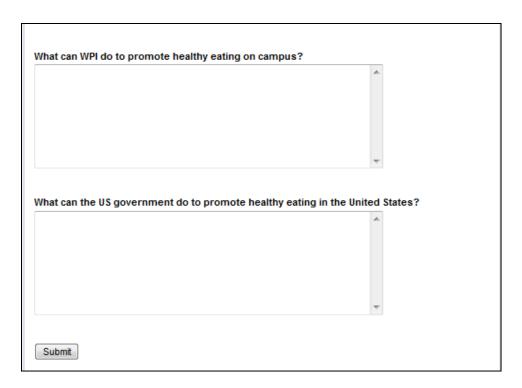


Figure 7 - Healthy Eating Campaign Survey

# 4.0 Nutritional Requirements

One goal of this project is to study the change of food habits over the past few decades and the impact of these changes on the obesity rates in America. This section highlights the basic nutrients of food, their digestion in the body, and the recommended food intake for an average person.

In order to understand the recommendations given by the US Government for food intake, it is first necessary to understand what food is made of, and how the body processes food intake. Foods can be divided into three main groups: the carbohydrates, proteins and lipids. Additionally, there are essential vitamins and nutrients that are needed in the human body for survival.

## 4.1 Carbohydrates

The main function of dietary carbohydrates is to supply energy for body functions.<sup>8</sup> This includes supplying energy for the digestion and absorption of other foods. Other macronutrients such as fats or proteins, can be converted by the body to energy,<sup>8</sup> however, carbohydrates are the body's preferred source of energy. Dietary carbohydrates are divided into simple carbohydrates (also known as sugar), which are found in table sugar, honey and natural fruit sugars; complex carbohydrates (also known as starches) and fibers which are mostly found in whole grains, legumes, vegetables and fruits.<sup>8</sup>

All carbohydrates follow the empirical formula of  $C_n H_{2n} O_n$ . There are many classifications for carbohydrates, according to their chemical structure. However, it is only necessary to focus on the important carbohydrate groups which are discussed in section 4.1.3 through 4.1.9.

#### 4.1.2 Digestion of Carbohydrates

The digestion of carbohydrates begins in the mouth, where starch-digesting enzymes start breaking down the starch. The dissaccharides are not digested in the mouth, and only around 5% of the starches found in food are broken down in the mouth.<sup>10</sup>

When the carbohydrates reach the small intestine, pancreatic amylase continues the digestion of starches. Enzymes in the small intestine break disaccharides into monosaccharides for absorption. The enzyme maltase splits maltose into two glucose molecules while the enzyme sucrase splits sucrose into glucose and fructose. Additionally, the enzyme lactase splits lactose into glucose and galactose. Carbohydrates that remain intact when they reach the large intestines are usually fibers or resistant starches. In the large intestine bacteria partially break down some of the undigested carbohydrates, reducing gas and few short-chain fatty acids. The fatty acids are then absorbed into the colon and are used for energy by the colon cells. Fibers that do not get digested or fermented in the large intestines add to the stool weight making it easier to pass. <sup>10</sup>

#### 4.1.3 Glucose

Glucose is a form of simple carbohydrates, also referred to as dextrose, corn sugar or grape sugar, and is the most plentiful simple carbohydrate in nature. Throughout the body, cells depend on glucose for energy and to drive necessary chemical processes. Glucose has the chemical formula of  $C_6H_{12}O_6$ , as is seen in Figure 8.<sup>10</sup>

Figure 8 – Glucose Structure<sup>10</sup>

Glucose is the primary fuel for most cells, in addition to be being the preferred fuel for the brain, nervous system and red blood cells. When fat is being burned for energy, glucose is needed to break down the fat entirely. Glucose is found in the blood (hence the term "blood sugar") and circulates to provide energy to cells. When there is an excess of glucose in the system, the body stores it in the liver and in the muscles as glycogen (which is discussed in section 4.1.9).<sup>10</sup>

When carbohydrates are not available, proteins and fats are used for energy. Even though, brain cells and red blood cells require a constant supply of glucose. In times of starvation, and the glucose storage (glycogen in the liver and the muscles) are depleted, the body is able to make glucose from body proteins.<sup>10</sup>

#### 4.1.4 Fructose

Fructose is another simple carbohydrate found mostly in honey, fruits and some vegetables and is slightly sweeter than glucose. It has the same chemical formula as glucose, but a different arrangement, as is seen in Figure 9.<sup>10</sup>

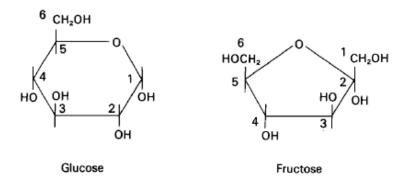


Figure 9 – Structure of Glucose and Fructose<sup>10</sup>

Fructose can be absorbed through the intestinal wall directly into the blood stream. Once the blood circulates by the liver, fructose is taken up into the liver cells where enzymes rearrange the fructose atoms. Some of the fructose is rearranged to make compounds completely different from fructose, and sometimes they are rearranged to make glucose.<sup>9</sup>

Additionally, there is no need for insulin in order to get fructose into cells in the body, and it is therefore used as a sweetener for people with diabetes. However, fructose has a higher tendency to be converted to fat rather than to glycogen, which adds to the levels of fat in the body.<sup>9</sup>

#### 4.1.5 Galactose

Galactose is a monosaccharide rarely found in free in nature, and less sweet than glucose. It is converted in the liver into glucose and can be found in dairy products, sugar beets, and in natural gum.<sup>10</sup>

Figure 10 – Galactose Structure<sup>10</sup>

Like all other carbohydrates it follows the basic carbohydrate formula and has a similar structure to the other carbohydrate groups, as is seen in Figure 10.9

#### 4.1.6 Sucrose

Sucrose, commonly known as table sugar, is composed of glucose and fructose. Sucrose is very sweet and accounts for some of the sweetness of sweet fruits. It is the principal energy nutrient ingredient of carbonated beverages, candy, frostings and other sweets. The body processes sucrose with enzymes that hydrolyze the sucrose to yield glucose and fructose. <sup>10</sup>

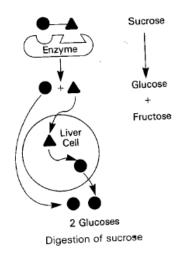


Figure 11 – Schematic Illustration of the Digestion of Sucrose<sup>10</sup>

Some of the fructose is then picked up in the liver again and may be converted into glucose. One molecule of sucrose can ultimately yield two of glucose, as fructose converted to glucose in the liver. Figure 11 illustrates the digestion of sucrose and how one molecule of sucrose can yield two glucose molecules after it has been processed.<sup>9</sup>

#### **4.1.7** Lactose

Lactose is the main carbohydrate of milk. Humans are born with the digestive enzyme necessary to hydrolyze lactose to its two monosaccharide parts, so that they can be absorbed. These two monosaccharide parts are glucose and galactose; of which the latter is then converted to glucose in the liver. There is therefore a supply of two molecules of glucose for each molecule of lactose that is consumed. Many people can become lactose intolerant as they age and they must find substitutes for milk, as it is a major source of calcium and riboflavin.

#### **4.1.8 Starch**

Starch is a long, straight or branched chain of hundreds of glucose units connected together, as is illustrated by Figure 12.

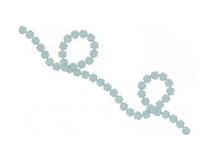


Figure 12 - Starch Structure9

A single starch molecule can contain 3000 or more glucose units. In a plant, starch is a storage form of glucose needed for the plant's growth. Enzymes in our mouth and intestines hydrolyze starch to produced glucose units, which are then absorbed across the intestinal wall into the blood.<sup>10</sup>

#### 4.1.9 Glycogen

Glycogen is found in animal meat only and is composed of glucose, into complex highly branched chains. As glycogen is composed of hundreds of chains of glucose, it is an energy reserve that can be used quickly to mobilize a sudden need of glucose in the system.<sup>10</sup>

#### 4.1.10 Dietary Fibers

Fiber denotes the substances in plant food that the human body cannot digest, and are extremely important in the human diet. Fibers can act like a sponge in the gastrointestinal (GI) tract and will hold water together, binding minerals and bile salts used by the body to prepare for digestion.<sup>10</sup>

Table 1 - Effects of Different Kinds of Fibers<sup>8</sup>

Conditions and Effect of Fiber		Fiber Type		
	Cellulose, Hemicellulose, (from fruits, vegetables, legumes, wheat, brans, oat bran, and other cereal brans, nuts and seeds, whole grain flours)	Gums, pectins, (from fruit, vegetables, seeds, legumes, oats, barley)	Lignin (from whole grains, seeds, woody parts of vegetables)	
Obesity- displaces Calories (gel forming)?	Yes	Yes	No	
Constipation/hemorrhoids - effect on stool bulk, ease of passage	Reduces pressure, eases stool passage	None	Makes stool move faster	
Cancer – increases bile acid excretion	No	Yes	Yes	
Diabetes and other disorders of blood glucose regulation – improves glucose tolerance?	Yes	Yes – some help control blood sugar in diabetes		
Cardiovascular disease – lowers blood cholesterol	No – except oat bran lowers it	Yes	Yes	
Calorie intake – how completely digested?	60 to 95% digested	Mostly Digested	Not digested	
Blocks mineral absorption?	Yes	No	Yes	

There are many effects of different kinds of fibers in our body, and many health benefits as seen in Table 1. Fruits, vegetables, wheat, bran, grains, seeds, oats, legumes all contain fiber. Many fibers help with glucose regulation and glucose tolerance, which is important for diabetes patients and patients suffering from disorders of the blood.

Some fibers help lower blood cholesterol, which is important for patients with cardiovascular diseases. For people suffering with constipation and hemorrhoids, fibers help reduce the pressure and ease stool passage.

#### 4.1.11 Glycemic Index

The Glycemic Index is an index illustrating the effect of carbohydrates on blood sugar levels. The glycemic effects illustrates the effect food has on the insulin and glucose levels in the blood, and monitors how fast and high the glucose rises, as well as how fast the body can respond and bring it down to normal.<sup>8</sup>

The Glycemic index is important to people with blood glucose abnormalities, such as diabetes and hypoglycemia. A sample index is found in Table 2:

Table 2 - Glycemic Index Sample9

Food	Index Value	Food	Index
			Value
Fructose	20	White bread	69
Whole milk	34	Potatoes	70
Ice cream	36	Cornflakes	80
Orange Juice	46	Carrots	92
Spaghetti	50	Parsnip	97
Yam	51	Glucose	100

The higher the index value, the faster the blood glucose levels rise in the body. Food item with a higher glycemic index value are suitable for people with hypoglycemia or after physical activity when lots of energy is needed. People with diabetes need to avoid higher index valued foods, as the lower ones help release a more steady flow of glucose in the blood.<sup>9</sup>

#### 4.2 Protein

Protein is chemically similar to carbohydrates. It contains the same atoms and lipids – carbon, hydrogen, and oxygen, and additionally it also contains nitrogen. These four compounds are arranged into amino acids, linked into chains to form protein. Figure 13 illustrates the structure of different amino acids.

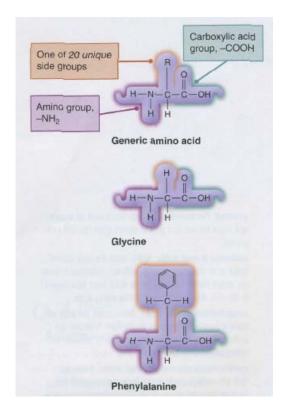


Figure 13 - Amino Acid Structure9

Amino acids have a similar structure with the aforementioned elements, however they each have a side group, illustrated in green, giving each amino acid a unique identity. In addition to containing nitrogen, some of these amino acids also contain sulfur. These amino acids, along with the amino acids made in the body, help make many different body proteins, which help build and maintain body structure and regulate body processes. Protein is also used for energy in the body.

#### 4.2.1 Digestion of Protein

Digestion of proteins begins in the stomach where hydrochloric acid denatures the protein. This helps to make the amino acid chain more accessible to the enzymes. Pepsin, an enzyme, begins the protein digestion. Most of the protein digestion happens in the intestines. In the small intestines, further enzymes break down the protein into the individual amino acids and small peptides (which are two or three amino acids in length).

The intestinal cells will then absorb the amino acids and the peptides. These cells will then further split the peptides into individual amino acids. The amino acids are then absorbed into the capillaries of the villi. The capillaries are the smaller blood vessels in the human body, and are a part of the microcirculation.<sup>9</sup>

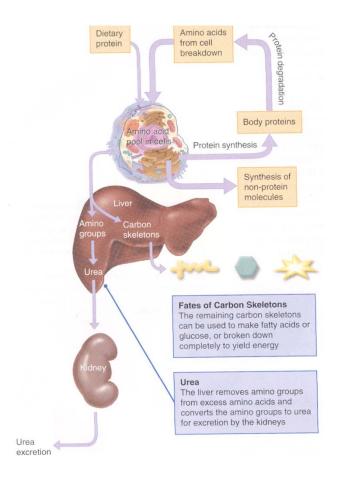


Figure 14 – Schematic Illustration of the Breakdown of Protein in the GI Tract<sup>9</sup>

The amino acids will then travel in the bloodstream to tissues as needed. Figure 14 illustrates the protein turnover cycle. The cells draw amino acids from the amino acid pools to synthesize the new proteins. The pools need to be replenished by amino acid quickly from dietary protein and the breakdown of body protein. When dietary protein is missing, breakdown of body

protein is increased in order to replenish the amino acid pool. Essential body tissue can be lost when an adequate amount of dietary protein is not consumed.<sup>9</sup>

#### 4.2.2 Roles of Protein in the Body

There are many uses for protein in the human body. As illustrated in Figure 15, proteins have different roles in the body, and there is a unique protein for each specific function. Different proteins distinguish themselves by having a unique shape.

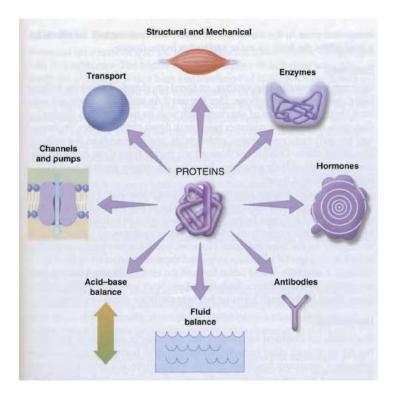


Figure 15 - Role of Protein in the Body<sup>9</sup>

Proteins help with bone, skin, nail and hair growth and maintenance. Proteins are also found in the immune system, helping destroy pathogenic microorganisms like bacteria, viruses and toxins. Enzymes made of proteins help speed up chemical reactions in the body, especially during digestion helping to break down food and digest it. Additionally, protein hormones

perform important regulatory functions in the body. Insulin for example, is a protein hormone that helps regulate the amount of glucose in the body.<sup>9</sup>

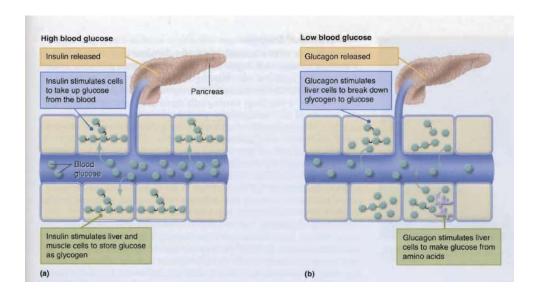


Figure 16 – Insulin and Glucagon Effects on the Body<sup>9</sup>

Figure 16 illustrates the effect insulin has on the blood glucose and the effect glucagon has on the blood glucose. When there is high blood glucose in the body (after a meal for example), insulin is released into the blood and allows the cells of the body to take up glucose from the blood. It also simulates liver and muscle cells to store glucose as glycogen. Glucagon on the other hand simulates the liver cells to break down glycogen to glucose when there is low blood glucose. It is obvious that these protein hormones help maintain an important system in the body, and are necessary for survival.<sup>9</sup>

The body usually uses carbohydrates and fat for energy. However, when necessary, the body can use protein for energy or to make glucose. By burning fat and carbohydrate amino acids are spared and are used for protein synthesis. When not enough energy is provided for vital body functions, the body will sacrifice its own protein from enzymes, muscle and other tissue in order to make energy and glucose. When an abundance of protein is found in the diet, the body converts it to glucose or stores it as fat.<sup>9</sup>

#### 4.2.3 Where is protein found?

Proteins are found in both food and vegetable. Rich sources of protein include meats, fish, eggs and poultry. Many vegetarians lean on legumes and nuts as a main source of protein. Soybeans are the only plant source of complete protein, and are processed to create different products that resemble other foods. There is a great deal of dairy products that are created from soy, such as soymilk, soy yogurt and cheese. Soy is also used as imitation meat, and is a main ingredient of tofu.

Animal proteins are considered to be complete proteins; they contain all the necessary amino acids. Necessary amino acids are used to form protein in the human body. Plant proteins do not contain all necessary amino acids and are therefore called incomplete proteins. Vegetarians and vegans rely on protein intake from incomplete proteins such as beans, peas and nuts, which are also Calorie-dense foods.<sup>9</sup>

The USDA recommends choosing lean protein. This includes lean beef cuts such as top loin, arm roasts and top round, extra lean ground beef, lean turkey, skinless chicken breasts, and lean pork cuts. They also recommend eating more fish, as they are a lean source of protein with the added benefit of omega-3 fatty acids which are discussed in section 4.3.6. Additionally, the USDA recommends eating beans or peas as side dishes, and eating seeds and nuts as snacks.<sup>9</sup>

# 4.3 Lipids and Fats

Fats are necessary for the body to keep many different systems functioning properly. They are a part of every cell in the body, and meet the body's immediate needs for energy regularly. Fat in food is usually a subset of class known as lipids. These lipids include triglycerides (fats and oils), phospholipids and sterols.<sup>9</sup>

#### 4.3.1 Digestion of Lipids

Like carbohydrates and proteins, lipids are broken into smaller compounds for absorption in the body. However, lipids are not water soluble, so the digestion process is different.<sup>9</sup>

Digestion of triglycerides begins in the mouth, where digestive enzymes start breaking it down. In the small intestines micelles, small-emulsified fat packets are formed. Micelles are oriented with their fat-soluble part facing inward and water-soluble part outwards and they carry monoglycerides and fatty acids through the intestines where they get absorbed.<sup>9</sup>

However, digestion does not break down cholesterol and other sterols. Only around 50% of dietary cholesterol is absorbed, and the more cholesterol in the body the smaller the percentage. When lipids hit the bloodstream, low-density lipoproteins (LDL) carry lipids from the liver to other body tissues. High-density lipoproteins (HDL) carry cholesterol throughout the body, and a larger amount of HDL helps reduce the risk for heart disease.

#### 4.3.2 Fatty Acids

Fatty acids determine the characteristic of a fat, and play a role in its form at room temperature. Fatty acids are chains of carbon atoms with a carboxyl group at one end and a methyl group at the other. Fatty acids also determine the odor of a fat, and contribute to the unpleasant odor of spoiled food.

#### 4.3.3 Saturated Fats

Saturated fats are fatty acids completely filled by hydrogen, in which all the carbons in the chain are linked by a single bond, as illustrated in Figure 17 below.

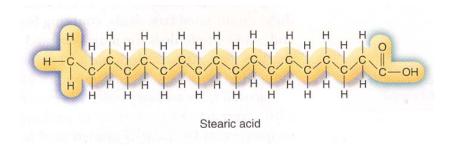


Figure 17 - Saturate Fatty Acid9

In saturated fat, hydrogen atoms completely saturate all other available bonding cites, and the bonds between the carbon atoms are single bonds.<sup>9</sup>

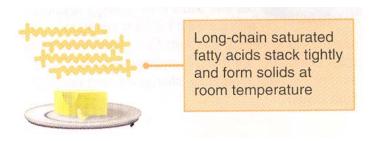


Figure 18 - Long-chain saturate fat is solid in room temperate<sup>9</sup>

Figure 18 illustrates that long-chain saturate fatty acids stack tightly and thus form solids at room temperature, such as butter. The USDA stresses that a high intake of saturated fat increases the risk of unhealthy blood lipid levels, which can increase the risk of heart disease. They recommend consuming less than 10 percent of daily Caloric intake from saturated fatty acids, however, stress that a small amount is essential as a vitamin source.<sup>11</sup>

#### 4.3.4 Mono-saturated Fats

Mono-saturated acids are fatty acids in which the carbon chain contains one double bond as illustrated in Figure 19.

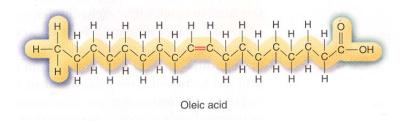


Figure 19 – Mono-saturated Fatty Acid<sup>9</sup>

Mono-saturated fatty acids do not stack compactly and are liquid in room temperature, and form substances such as milk. The recommendation for saturated fat from the USDA applies to all saturated fats, including mono-saturated.

#### 4.3.5 Polyunsaturated Fats

The polyunsaturated fatty acids contain a carbon chain with two or more double bonds, as shown in Figure 20.

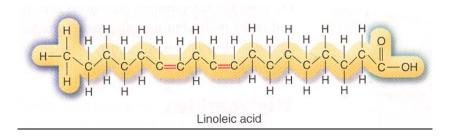


Figure 20 - Polyunsaturated Fatty Acid9

Polyunsaturated fatty acids are like mono-saturated in that they do not stack compactly and are liquid at room temperature.<sup>9</sup>

#### 4.3.6 Omega-3 and Omega-6

Omega-3 and Omega-6 fatty acids are essential fatty acids from the unsaturated family. This means that they are fatty acids that the body cannot create on its own, and must come from food sources. The numbers in the name of these two fatty acids refer to the location of the first double bond in the fatty acids chains. Omega-3 is found in plant food such as soybean, walnuts and canola. Omega-3 can also be found in fatty fish, such as tuna and salmon. Omega-6 fatty

acids are found in common vegetable oils such as corn oil and in meats, poultry and eggs. Omega-3 and omega-6 fatty acids are not only essential fats; they also have major health benefits. Omega-3 is found to help with promoting brain health with aging, 12 and may reduce the risk of cardiovascular disease. 13

#### 4.3.7 Trans Fats

Trans fatty acids are unsaturated fatty acids with a straighter chain than a fatty acid with a bent carbon chain, which can be seen in Figure 21.

Figure 21 - Trans Fat14

This is as a result of a hydrogenation, and *trans* fatty acids are more solid than the aforementioned bent carbon chain acids. Cow's milk contains a small amount of *trans* fatty acid, but the commercial process of hydrogenation creates most *trans* fatty acids in our diet; adding hydrogen to un unsaturated fatty acid, making it more saturated. These have been shown to raise LDL (known to be bad) cholesterol levels and can increase the risk of heart disease.<sup>9</sup>

#### 4.3.8 Roles of Fat in the Body

Fat helps to maintain the structure and health of all cells, protect body organs from temperature extremes and from getting hurt, and provide a continuous fuel supply. Fat also plays an important role in food. Fats provide many of the compounds that give foods their flavor and aroma. Four important vitamins – A, D E and K are fat-soluble. When fats are removed from a food, many of the fat-soluble compounds (such as vitamins and flavors) are also removed.<sup>9</sup>

Most importantly, an additional feature is lost when fat is removed, and that is the Calorie. Fat is a more concentrate energy source than the other energy nutrients: 1 g carbohydrate or protein = 4 Calories, but 1gram of fat = 9 Calories.

## 4.4 Water and Vitamins

The daily needs for vitamins are much smaller than the needs of carbohydrates, fats and proteins. However, vitamins are essential and play a large role in the digestion of food and maintaining a healthy body. The following vitamins are vitamins that play an important role in the body. There are many other vitamins not outlined here.<sup>9</sup>

- Calcium is plentiful in the body and is important for avoid blood clotting, healthy muscle
  contraction and hormonal secretion and helps with normal nervous system function. Calcium
  is also used in the mineralization of bones.
- Phosphorus is required for the formation of bone and teeth and helps digest protein and glucose.
- Magnesium is essential for metabolism and is essential for nerve and muscle health
- Potassium plays an important role in the health of the cardiovascular system, as well as maintaining the health of the kidneys and pancreas.
- Iron helps the body regulate a healthy immune system and produces hemoglobin and myoglobin, molecules that help deliver oxygen to lungs, muscles and other tissues.
- Sulfur helps with the health of the skin and acts as a flexible bond between cells, a joint lubricant.<sup>9</sup>

## 4.4.1 Water

Water is a major component of every part of the body. Although water contains no Calories and seemingly no necessary nutrients, it is necessary for digestion, nutrient absorption and waste-elimination. It also helps regulate circulation, body temperature and a host of biochemical reactions. Water lubricates joints and maintains healthy skin.<sup>9</sup>

## 4.5 Recommended Nutritional Intake

In order to function properly, the body needs nutritional intake. The Government has recommended nutritional intake guides that explain how much a person should eat according to their age, sex, weight, height and level of activity.

The body produces chemical energy by combining oxygen in the air with carbon and hydrogen from food. When the body is still, the energy produced in the body becomes heat. Heat is an easy form of energy to measure.<sup>8</sup>

The unit used to measure heat is the Calorie. The Calorie is the amount of heat required to heat 1 gram of water 1°C. Measuring the heat of the human body in Calories is not realistic because the amount of Calories in body is too large. Instead nutritionists use the kiloCalorie when talking about energy. They distinguish the regular Calorie from the kiloCalorie by capitalizing Calorie.<sup>8</sup>

Nutritionists refer to the energy used at "complete rest" as the basal metabolism. Basal metabolism is used to evaluate the most basic energy requirements for a person. Nutritionists have different ways of measuring this basal metabolism and have conducted experiments to create a general recommendation for specific heights and weights for females and males of different ages.<sup>8</sup>

Metabolism usually refers to two processes: oxidation of food to produce energy, and formation of body tissue from food. Thus, basal metabolism decreases with increasing age and is also lower for females than for males. It is estimated that for the average person of moderate activity, about 70% of the energy produced by the body is basal and 30% is used for activities throughout the day. However, for someone with extreme activity, the energy used by the muscles in the body may be higher than that energy used by basal activity.<sup>8</sup>

Scientists base their recommended Calories intake on the basal metabolism, as well as age and the level of activity of the person. A person who is active will need to increase their Calorie intake in order to supply enough energy to their body, as they burn energy when they are exercising.<sup>8</sup> Table 3 depicts the approximate Calories used in specific activities by a 154-pound man.

Table 3 - Average Calories Used for Different Activities<sup>15</sup>

	Approximate Calories Used by a 154 pound man		
Moderate Physical Activity:	In 1 Hour	In 30 minutes	
Hiking	370	185	
Yard work	330	165	
Dancing	330	165	
Golf	330	165	
Bicycling (less than 10 miles an hour)	290	145	
Walking (3.5 mile per hour)	280	140	
Weight training (light workout)	220	110	
Stretching	180	90	
Vigorous physical Activities:	In 1 hour	In 30 Minutes	
Running/jogging (5 miles an hour)	590	295	
Bicycling (more than 10 miles an hour)	510	295	
Swimming (slow freestyle laps)	480	255	
Aerobics	460	240	
Walking (4.5 miles an hour)	440	230	
Heavy yard work	440	220	
Weight Lifting (vigorous effort)	440	220	
Basketball	440	220	

Table 4 shows the recommended daily Caloric intake for Men and Women at different ages, published in the Dietary Guidelines for Americans 2005:

Table 4 - Estimated Caloric Requirements for Each Gender and Age Group as Tree Activity Levels<sup>15</sup>

		<b>Activity Leve</b>	l	
Gender	Age (years)	Sedentary	<b>Moderately Active</b>	Active
Child	2-3	1000	1000-1400	1000-
				1400
Female	4-8	1200	1400-1600	1400-
	9-13	1600	1600-2000	1800
	14-18	1800	2000	1800-
	19-30	2000	2000-2200	2200
	31-50	1800	2000	2400
	51+	1600	1800	2400
				2200
				2000-
				2200
Male	4-8	1400	1400-1600	1600-
	9-13	1800	1800-2200	2000
	14-18	2200	2400-2800	2000-
	19-30	2400	2600-2800	2600
	31-50	2200	2400-2600	2800-
	51+	2000	2200-2400	3200
				3000
				2800-
				3000
				2400-
				2800

The US Government recommends that people consume the corresponding amount of Calories per day according to their activity level in order to maintain a healthy weight.

## **4.6 Nutrition Requirements**

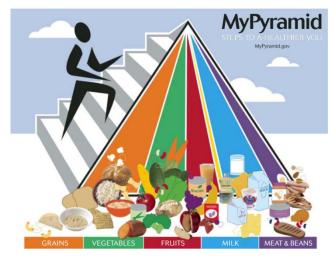


Figure 22 - USDA Food Recommendations $^{16}$ 

The food guide recommendations are summarized by the US Government in the form of a food guide pyramid called MyPyramid, presented in Figure 22. The pyramid separates the foods into 5 different groups: grains, vegetables, fruits, milk, meat and beans. An additional group that is on the pyramid but listed at the bottom of the pyramid, represented by the small yellow line, is the oil and fat group.

The pyramid itself assigns a different color to each food group, and is a visual aid to help people see the intake proportions of each group in comparison to each other.

GRAINS Make half your grains whole	VEGETABLES Vary your veggies	FRUITS Focus on fruits	MILK Get your calcium-rich foods	MEAT & BEANS Go lean with protein	
Eat at least 3 oz. of whole- grain cereals, breads, crackers, rice, or pasta every day  1 oz. is about 1 slice of bread, about 1 cup of breakfast cereal, or ½ cup of cooked rice, cereal, or pasta	Eat more dark-green veggies like broccoli, spinach, and other dark leafy greens  Eat more orange vegetables like carrots and sweetpotatoes  Eat more dry beans and peas like pinto beans, kidney beans, and lentils	Eat a variety of fruit  Choose fresh, frozen, canned, or dried fruit  Go easy on fruit juices	Go low-fat or fat-free when you choose milk, yogurt, and other milk products  If you don't or can't consume milk, choose lactose-free products or other calcium sources such as fortified foods and beverages	Choose low-fat or lean meats and poultry  Bake it, broil it, or grill it  Vary your protein routine — choose more fish, beans, peas, nuts, and seeds	
For a 2,000-calorie diet, you need the amounts below from each food group. To find the amounts that are right for you, go to MyPyramid.gov.					
Eat 6 oz. every day	Eat 21/2 cups every day	Eat 2 cups every day	Get 3 cups every day; for kids aged 2 to 8, it's 2	Eat 51/2 oz. every day	

Figure 23 - Recommendation for Each Group<sup>16</sup>

The actual recommendations do not include specific Caloric values, but rather cup servings and ounces for a 2,000 Calorie diet, as seen in Figure 23. Specific amounts for different Calorie diets can be found on the USDA's website MyPyramid.gov.

On the MyPyramid.gov website, visitors have many options to learn more about MyPyramid, diets, and food intake. One option presented at the website is to "Get a personalized Plan", as seen in Figure 24.



Figure 24 - Options at the MyPyramid.gov Website<sup>16</sup>

When this option is clicked, the visitor is asked to fill out some basic information about their height, weight, sex, physical activity and age, which can be seen in Figure 25.

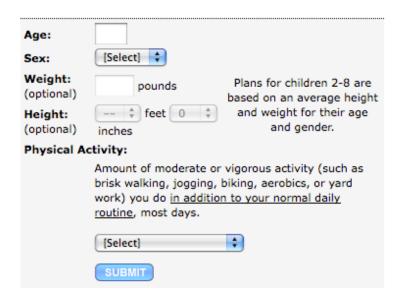


Figure 25 - Options for Personal Dietary Recommendations<sup>16</sup>

Depending on the visitor's Body Mass Index (BMI), the next step has two outcomes. For those with a BMI higher than 25.0, and either obese or overweight, the next step will warn the

visitor of their weight. They can then choose a food plan for their current weight, or a plan to help them move toward a healthier weight. This can be seen in Figure 26.

# MyPyramid Plan

## Please note:

The weight you entered is above the healthy range for your height. This may increase your risk for health problems. Some people who are overweight should consider weight loss. Click here (new window) for more information about health risks and whether you should try to lose weight, or talk with your health care provider.

#### Would you like a food plan:

For your current weight?

To gradually move toward a healthier weight?

Figure 26 - Warning of High Weight<sup>16</sup>

If the visitor's BMI is lower than 25.0, they will be taken directly to their food plan. The specific food generated by the MyPyramid website does not include specific Calories for each food group. The numbers of overall Calories that should to be consumed in a day are shown, and then ounces and cups are used for the food group recommendations.

Figure 27 is a sample recommendation on the MyPyramid.gov website for a 20 year old male, weighing 160 pounds at 6 feet and 0 inches who exercises 30 to 60 minutes a day.

## MyPyramid Plan

Eat these amounts from each food group daily. This plan is a **2800** calorie food pattern. It is based on average needs for someone like you. (A **20** year old **male**, **6** feet **0** inches tall, **160** pounds, physically active **30 to 60 minutes** a day.) Your calorie needs may be more or less than the average, so check your weight regularly. If you see unwanted weight gain or loss, <u>adjust the amount you are eating</u>.





Figure 27 - Specific Recommendations<sup>16</sup>

The MyPyramid recommendation recommends a Calorie intake of 2800 Calories per day for this person, in order to maintain their current weight.



before starting or increasing physical activity. Click here for more information about physical activity and health.

activity most days. Longer or more vigorous activity can provide greater health benefits. <u>Click here</u> to find out if you should talk with a health care provider

Figure 28 - More information regarding  ${\rm diet}^{16}$ 

Additional information regarding the diet can be found as well. The recommendation also includes a paragraph explaining the importance of physical activity.

## 4.6.1 Issues with the USDA Recommendations

While the USDA had been publishing nutrient recommendation and guidelines for many years, the USDA Food Guide Pyramid was published only a decade and a half ago.

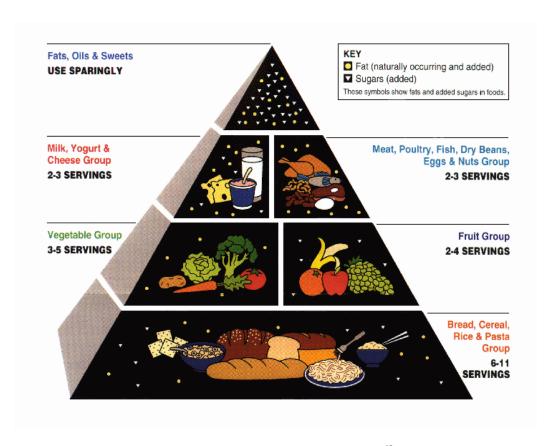


Figure 29 - USDA Food Guide Pyramid 1992<sup>18</sup>

The original food guide pyramid was published in 1992 and is illustrated in Figure 29. At the time, the Government was able to successfully integrate the food guide pyramid into the education system, and had student learning it early on. It appeared all over the media and was printed on cereal boxes and food labels. The Food Guide Pyramid was everywhere, as the USDA was trying their best to fully integrate it into people's lives.<sup>9</sup>

In 2005 the Food guide Pyramid was retired. Many brought up the controversial and unsupported claims of the Food Guide Pyramid, but K. D. Gifford, a law professor at the University of Maryland, explains these well. According to Gifford, the main problem with the Food Guide was the drumbeat that "Good food health, reduce fat" was getting strong. <sup>19</sup> There was a sudden shift of focus on fat, and the caloric balance was forgotten. This had caused major consequences. In 1977, US citizens got 40% of their Calories from dietary fat, and by 1995, this

had decreased to 34%. However, their total fat intake was increased by 13%, as their total caloric intake had increased by 21%. <sup>19</sup>

The major flaw of the Food Guide Pyramid was the focus on fat. Gifford explains that most of the health and nutrition reports followed the USDA guidelines which state not to exceed the consumption of more than 30% fat. However, there had been little public discussion on the scientific basis for this percentage, and it clashed with the knowledge that many populations around the world, with extreme good health, had a variety of fat percentage intake, ranging their caloric fat intake from 10% to 40% in their diets.<sup>19</sup>

However, the Harvard School of Public Health (HSPH) claims that the Food Guide Pyramid "didn't point to healthy eating". They further explain that the Food Guide Pyramid was based on infirm scientific evidence, and that it had not changed in many years even though there were major advances in the understanding of the link between diet and health.

When, in 2005, the new MyPyramid was introduced, and the old Food Guide Pyramid was retired, the HSPH was still not impressed. They claim that while the new MyPyramid eliminates the flaws of the old Food Guide Pyramid, it still does not bear enough information for the public to make good food choices. Additionally, the HSPH explains that the MyPyramid still continues to recommend foods that are not essential to good health, and may even be in harmful quantities.<sup>20</sup>

As can be seen, in Figure 30 the Healthy Eating Pyramid, the HSPH has its own recommendation for food intake.

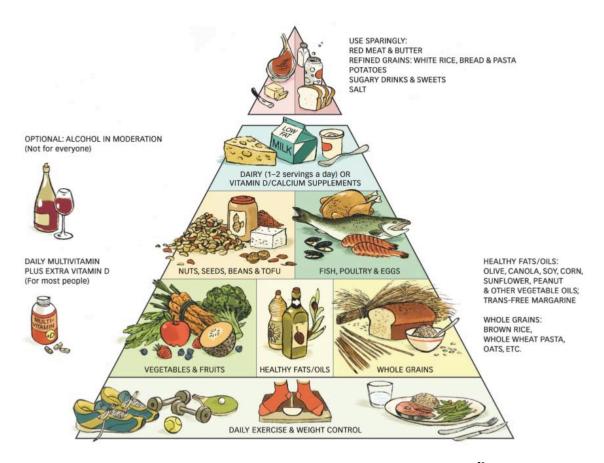


Figure 30 - Harvard School of Public Health Healthy Eating Pyramid.<sup>20</sup>

The HSPH explains that Americans should "forget about numbers and focus on quality". They present their own food pyramid, which they call the Healthy Eating Pyramid. They explain that the Healthy Eating Pyramid does not give numbers or cups for the amount of food a person should eat, as this varies greatly depending on body size and exercise level of an individual. They simply provide a flexible guide people should follow when they make food choices.<sup>20</sup>

They remind the individuals using their recommendations, that eating more foods from the base of the pyramid is a big contributor to a healthier diet. In terms of specific foods, here are the HSPH's recommendations:<sup>20</sup>

 Whole Grains – the body needs carbohydrates for energy and the best source of carbohydrates are whole grains. They recommend oatmeal, whole wheat bread and brown rice. They also recommend to stay away from white flour as this is a highly processed carbohydrate which can have bad effects on the blood sugar to rise and then fall really quickly

- Healthy Fats and Oils HSPH recommend healthy fats and oils such as olive, sunflower and
  other vegetable oils. Fatty fish like salmon, seeds, nuts and avocadoes are also a great source
  of healthy fats and oils.
- Vegetable and Fruits a large array of vegetable and fruits has a lot of healthy benefits.
- Nuts, Seeds, Beans, Tofu great source of protein, fiber, vitamins and minerals
- Fish, poultry and eggs these should be the main source of protein. There is a huge healthy benefit to eating fish, as it reduces the risk of heart disease. Chicken and turkey are a great source of protein without saturated fat.
- Dairy the HSPH recommends to only take around 1-2 servings of dairy per day.
   Additionally, they say that instead of these 1 or 2 servings, a Vitamin D/Calcium Supplement can be taken.
- Use sparingly the HSPH recommend to stay away from red meat, butter, refined grains such as white bread, rice and pasta, potatoes, sugary drinks and sweets, and salt.
- Exercise the HSPH recommends supplementing the diet with daily exercise.<sup>20</sup>

## 4.6.2 FDA and Portion Size Regulation

Nutrition labels provide not only the nutrient information for the food item, but also the serving size and the Caloric value for each serving. The federal Government sets the laws governing food labeling and serving sizes.<sup>21</sup> The FDA has been put under pressure to change the current portion sizing regulations on food labels. Currently, the small portion sizes on labels are disingenuous, causing people to eat more than they think they are consuming.<sup>21</sup>

Many of the serving sizes on package food bear no real relationship toward the way most Americans eat. Ritz crackers have a serving size of 5 crackers,<sup>22</sup> which contain 80 Calories. Tostitos restaurant style chips have a serving size of 6 chips,<sup>23</sup> which contain 150 Calories. It is estimated that people eat two to three times of that amount when they snack on these food items.<sup>21</sup> Packaged cereal, such as Frosted Flakes or Fruit Loops have a serving size of <sup>3</sup>/<sub>4</sub> of a cup, and it is estimated that children eat about two or more cups of cereal for breakfast.<sup>21</sup> That is around 250 Calories from cereal only.<sup>24</sup>

When looking at nutritional packaging, the amount of Calories listed reflect the caloric value of one serving size. If a food item has a small serving size, the caloric value will be small as well and will mislead the customer purchasing the product, unless they read the label carefully. Additionally, companies are changing the packaging of their food items and putting the caloric value on the front of the item, advertising the small caloric value without the serving size at the front, and misleading their customers.<sup>21</sup>

The FDA has come to the realization that the serving size for many packaged food items are too small and that the regulations need to be re-evaluated.<sup>21</sup> William Neuman from the New York Times explains that this is not as simple as increasing the serving size of packaged foods, as the Government fears that consumer might think that it is fine to eat more.<sup>21</sup> Many experts believe that the serving size confusion has lead many Americans to consume more than they think they are consuming.<sup>21</sup>

## 4.7 Malnutrition

Malnutrition is the failure to achieve nutrient requirements. It can impair physical and mental health. Malnutrition can result from the intake of too much food, not enough food, or an imbalance of food. Malnutrition is a great cause of concern around the world, as its consequences can be fatal.<sup>9</sup>

Many health problems arise from lack of nutrients, and typically a malnourished person will suffer from two or more of coexisting deficiencies. Some of the more common deficiencies are explained below.

#### 4.7.1 Iodine Deficiency

Iodine Deficiency disorder is a wide range of disorders affecting the growth and development of person due to the lack of iodine in the person's diet. Iodine plays an important role in regulating the function of thyroid in the body, as well as many others. Iodine deficiency causes brain damage, impairing the intellectual ability and work performance of the person suffering from the deficiency. It is most destructive during pregnancy and can cause spontaneous abortions, birth defects such as cretinism and deafness, as well as stillbirths.<sup>9</sup>

## 4.7.2 Vitamin A Deficiency

Vitamin A plays a role in various functions in the body, and is very important for vision health. Vitamin A deficiency is rarely seen in developed countries such as the United States, but it is the leading cause of blindness in children in developing countries.<sup>9</sup>

## 4.7.3 Protein-Energy Malnutrition

Lack of protein and energy can lead to devastating illness. There are two main complications that arise with protein-energy malnourishment. In kwashiorkor, the body and the fact will sell with excess fluids, rashes develop, and the hair turns wispy and red. This eventually leads to death without proper treatment. In marasmus the body of the suffering person looks emaciated, with sunken eyes, shriveled limbs and a clear outline of its skeleton. This also leads to death without proper care.<sup>9</sup>

## 4.7.4 Iron deficiency Anemia

Anemia is one of the most common nutritional disorders in the world and affects 30% of the world's population. The anemia is mostly due to iron deficiency and is characterized by low red blood cells count. This leads to many complications such as weakness, fatigue, low blood pressure, and in some cases even heart attacks.<sup>9</sup>

## 4.8 Body Mass Index (BMI)

The body mass index is a method of assessing body weight for height. It is a simple formula that takes the ratio of weight to height squares and correlates well with body fatness and health risks. The body mass index formula is as follows:<sup>9</sup>

$$BMI = \frac{weight(kg)}{height(m)^2} \tag{1}$$

The ratios then fall into four categories: underweight, normal range, overweight and obese, as is illustrated by Table 5 from the World Health Organization.

Table 5 - Body Mass Index Chart from World Health Organization<sup>25</sup>

Classification	BMI (kg $/$ m $^2$ )	
	Principal Cut-Off	Additional cut-off
	points	points
Underweight	< 18.50	< 18.50
Severe thinness	< 16.00	< 16.00
Moderate thinness	16.00 – 16.99	16.00 – 16.99
Mild thinness	17.00 – 18.49	17.00 – 18.49
Normal Range	18.50 – 24.99	18.50 – 22.99
		23.00 - 24.99
Overweight	≥ 25.00	≥ 25.00
Pre-obese	25.00 – 29.99	25.00-27.49
		27.40 – 29.99
Obese	≥ 30.00	≥ 30.00
Obese Class I	30.00 – 34.99	30.00 - 32.49
		32.59 - 34.99
Obese Class II	35.00 – 39.99	35.00 – 37.49
		37.50 – 39.99
Obese Class III	≥ 40.00	≥ 40.00

The USDA explains that the BMI does not directly measure body fat, and there will be some people, like athletes, with high BMI that identify as overweight or obese although they are do not have any excess body fats.

## 4.9 Summary

The main nutrients composing food are lipids, carbohydrates and protein. Each of these nutrients has an important role in maintaining different body functions and processes. It is important to consume a balanced amount of these nutrients to maintain a healthy body. In addition to these nutrients, the body also needs water and vitamins in order to function properly.

When a person does not maintain a balanced diet, they may develop some deficiency or malnutrition. The FDA has specific recommendations for nutrition, and these are the basic guidelines for a person's daily food consumption:

- Make grains half whole, eat 6 oz. every day.
- Vary vegetables, eat 2½ cups every day.
- Focus on fruits, eat 2 cups every day.
- Get calcium-rich foods, eat 3 cups every day.
- Go with lean protein, eat  $5\frac{1}{2}$  oz. every day.

In the next chapter the food habits of Americans of the past few decades will be examined. The issue of obesity in the United States will also be discussed. Lastly, the relationship between fast food and obesity in the United States will be rationalized.

## **5.0 Food Habits of People**

For the past few decades there has been a new phenomenon some refer to as "food confusion". The questions of what to eat, when to eat, are questions that arise many times in the lives of many people around the US. Michael Pollan, a New York Times Journalist and the author of *The Omnivores Dilemma*, explains in his recent book *In Defense of Food* that there are currently a lot of sources in our lives telling us what to eat – the food companies, doctors, the Government, the media. He points out that no other organism on this planet needs this professional help to make such a basic, instinctual decision and that throughout history humans have been able to answer this question without the help of experts.<sup>26</sup>

Pollan explains that in the past food was about culture. Culture directed humans how much to eat, what to eat, when to eat, in what order, and with whom to eat. Parents would teach their children, and they would learn how to eat, when, with whom and how to prepare the food. They would then eventually pass this information on to their own children. This has now changed in the Western World.<sup>26</sup>

The biggest reason for the change in the way Americans eat has been the technological advances humans have made. As technology has evolved, new ways of producing food and marketing food has changed the way Americans eat. The introduction of ready-made dinners has changed how families cook their own meals. Fast food has become much cheaper and many families choose to eat out. Eating in and cooking more at home has now become more expensive.<sup>26</sup>

Because of the technological advances, and the changes in food habits, there has been a great rise in obesity rates in the United States. In order to understand the problem of obesity, and its consequences, it is important to understand the food habits in the USA and see what has been happening in the past several decades.<sup>26</sup>

According to the United State Department of Agriculture (USDA), in the past decade, the average food supply for an American has increased, as seen in Figure 31, from 3,500 Calories a day in 1909 to 3,800 Calories a day in 2004.

## Food Supply

The U.S. food supply provided 300 calories more a day per person in 1994 than in 1909. Calories from the food supply, adjusted for spoilage and waste, increased from 2,220 per person in 1970 per day to 2,680 in 1997.

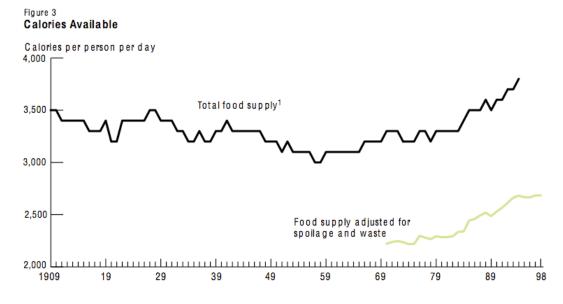


Figure 31 – Food Supply Change 1909- 2004<sup>27</sup>

While 300 Calories may not sound like a big amount, that is an increase of 2100 Calories a week, and around 109,200 Calories a year. That is around 30 extra pounds that Americans consumed each year, as a pound translates to around 3500 Calories.<sup>28</sup>

The growth in caloric intake can be explained by the large increase in consumption of foods, sweets, fast food and soda over the past couple of decades in the USA.

## **Total Meat Consumption**

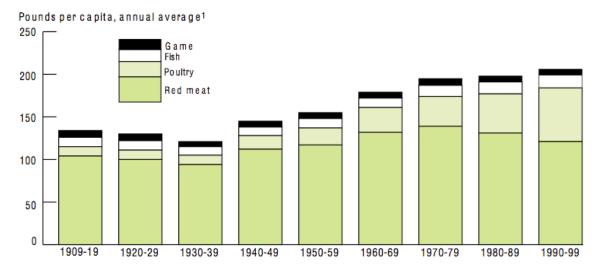


Figure 32 - Meat Consumption Changes 1970-1999<sup>29</sup>

There has been a 19 pound increase of meat (red meat, poultry, and fish) consumption per person in the USA from 1970. In 1998, total meat consumption was 196 pounds, 19 pounds above the 1970 level. There has been a great decline in the consumption of red meat (21 pounds less) and an increase in the consumption of poultry (31 pounds). There has only been a 3-pound increase in the consumption of seafood. There has also been a big decline in the fat percentage in consumed meat, going from 35 percent in 1997 to 25 percent in 1994. This is summarized in Figure 32.

Although red meat consumption has declined from 1970 to 1998, the consumption of red meat was much lower in early 1900's. It seems like over the 60s and 70s the red meat intake had been at its peak. The increase in the consumption of poultry is also depicted in Figure 33, and appears to be increasing in the past few decades.

# Milk Consumption Compared With Soft Drink Consumption Gallons per capita

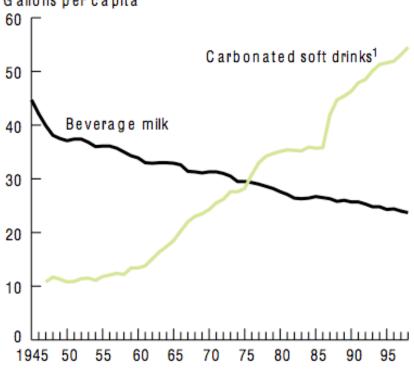


Figure 33 - Increase in Carbonated Drinks 1945 – 1997<sup>29</sup>

There has also been a tremendous increase in intake of carbonated drinks over the past few decades. As seen in Figure 33, in 1945, Americans drank more than four times as much milk as carbonated soft drinks. The intake of milk in 1945 was around 45 gallons per capita, and the intake of soft drinks was around 10 gallons per capita. In 1997, the intake for carbonated drinks had increase to around 55 gallons per capita, whilst the intake for beverage milk had gone down to 25 gallons per capita. The intake of 55 gallons per capita for carbonated soft drinks translated to around 0.15 gallons of beverage a day.

A typical and popular carbonated drink is Coca Cola. The nutritional information the Coca Cola Company provides on their website is presented in Table 6.

Table 6 - Coca Cola Can Nutritional Information<sup>30</sup>

Serving Size	240mL
Calories	97
Carbohydrates (grams)	27
Sodium (mg)	33
Potassium (mg)	0
Phosphorus (mg)	41
Caffeine (mg)	23
Saccharine (mg)	0
Aspartame (mg)	0
Acesulfame Potassium (mg)	0
Sucralose (mg)	0
Fat (grams)	0

There are 0.0634 gallons in 240mL. This translates to around 2.34 carbonated drinks a day for the average American. Looking at Coca Cola as a typical example of a carbonated drink, the average American is consuming 226 Calories a day just from soda. This is around an extra of 82,490 Calories a year, around 23 pounds of carbonated drinks.

Dr. Ronald Sturm, an economist from Stanford University explains that the recommendation of intake for snacks, biscuits, sweets and soft drinks by the Government has not been followed:

"In all areas and population groups surveyed, the average daily discretionary Calories from salted snacks, biscuits, sweets and soft drinks exceed the discretionary Calories recommended in the Dietary Guidelines for energy balance and essential nutrients, by over 60% in Los Angeles to over 120% in Louisiana. The ratio of consumed to recommended discretionary Calories is a significant predictor of BMI in the population, in contrast to fruit/vegetable consumption and physical activity."<sup>31</sup>

Indeed, the amount of sugar consumption in food has increased over the years.

#### Added Sugar Consumption

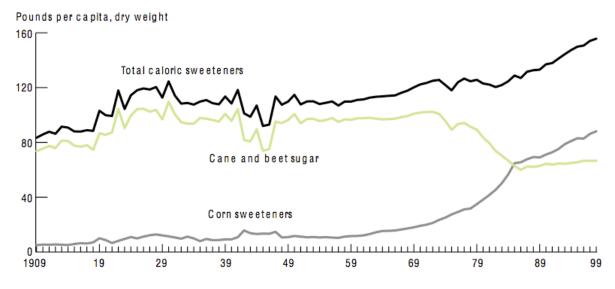


Figure 34 - Added Sugar Consumption<sup>32</sup>

In the past few decades, there has been a huge increase in the consumption of added sugar and sweet-tasting food and beverages in the United States, as is illustrated by Figure 34. The main sources of caloric sweeteners come from sucrose – table sugar made of cane and beets – and corn sweeteners – such as high fructose corn syrup. The consumption of these sweeteners has increased in 28% between 1982 and 1997. This translates to the equivalent of 53 teaspoonfuls of added sugars per day in 1997, when the recommended intake by the USDA is only 6 teaspoons per day for a 1600 Calorie based diet.

There has also been an increase in the prices of fruits and vegetables between 1982 and 1997. In 1991 the National Cancer Institute sponsored the 5-A-Day Program for Better Health in which they promoted the importance of consuming at least 5 servings of fruits and vegetables a day.<sup>33</sup> However, the data that was analyzed by a study found that the sponsored program had no effect.

	NHANES II, 1976–1980 <sup>14</sup> (n=11,648)	NHANES III, 1988–1994 (n=14,997)	NHANES 1999-2002 (n=8910)	∌ valueª
Fruit servings				
Mean (SE)	1.08 (0.03)	0.99 (0.03)	1.07 (0.04)	0.081
≥2 % (SE)	29 (<1.0)	26.7 (0.8)	28.4 (1.2)	0.196
Vegetable servings	Committee of the Commit	100000000000000000000000000000000000000		
Mean (SE)	1.77 (0.02)	2.08 (0.03)	1.97 (0.03)	0.029
≥3 % (SE)	27 (1.0)	35.0 (0.7)	32.5 (0.7)	0.026
Vegetable servings, excluding fried potatoes				
Mean (SE)	_	1.83 (0.03)	1.71 (0.03)	0.025
≥3 % (SE)	_	29.9 (0.6)	27.4 (0.7)	0.020
Total fruit and vegetable servings			2. 27	
Mean (SE)	_	3.06 (0.04)	3.04 (0.06)	0.754
≥2 Fruit & ≥3 Vegetable % (SE)	9 (<1.0)	10.9 (0.4)	10.8 (0.6)	0.963
≥5 Any F&V combination % (SE)	_	24.3 (0.6)	23.6 (0.8)	0.541

<sup>\*</sup>Pearson  $\chi^2$  test for difference between NHANES III and NHANES 1999–2002.

Figure 35 - Mean Servings per Day of Fruits and Vegetables<sup>33</sup>

The study concluded that between 1988-2002, as summarized in Figure 35, only 27% of adults met the USDA guidelines for fruit servings per day and only 35% met the vegetable guideline. Between 1992 and 2002 these numbers changed to 28% and 32% respectively, and only 11% of adults met the USDA guidelines for both fruit and vegetable requirements. The study also found that adults with higher income and greater education were "were significantly associated with meeting the guidelines in both data sets".<sup>33</sup>

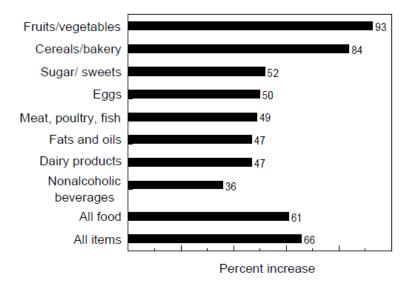
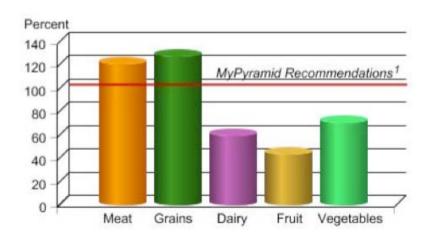


Figure 36- Percent increase in Price of Various Food. 1982-1997.<sup>29</sup>

There was also a big increase in the price of vegetables and fruits in comparison to other food products. This increase can be seen in Figure 36. Between 1982 and 1997, the increase of the price of fruits and vegetables went up 93%, when other food products, like dairy products and meat only increased in around 50%.

According to the National Heart, Lung, and Blood Institute portion distortion has been happening in the past 20 years. They explain that many regular food items, such as bagels and hamburgers, have grown in size and Calories, and are too large for one person to eat.<sup>34</sup>

A typical bagel was around 140 Calories, with a 3-inch diameter around 20 years ago. Today, the typical bagel is 6 inches in diameter and around 350 Calories. Similarly, a typical cheeseburger was 333 Calories, and today is around 590 Calories. French fries serving sizes have increased as well, averaging 610 Calories in a typical restaurant serving, in comparison to 210 Calories 20 years ago.<sup>34</sup>



Note: Food availability data serve as proxies for food consumption. 12006 data based on a 2,000-calorie diet.

Figure 37 - American Diets are Out of Balance with Dietary Recommendations<sup>35</sup>

Using available data the USDA can evaluate how American diets are following the food guide recommendations. In 2006 the USDA established that American diets are out of balance

with dietary recommendations, as is seen in Figure 37. The Americans consume too much meat and too many grains, and dairy, fruits and vegetables are not being consumed enough.

## **5.1** The Issue of Obesity

Obesity is a range of weight that is considered unhealthy for a given height, and a term that is usually associated with heart disease. The USDA defines obesity for adults using the body mass index, and an adult with a BMI higher than 30 is considered obese. <sup>36</sup>

There are several factors that lead to the development of obesity. There are biological factors that contribute, as well as social and environmental factors. Additionally, the lifestyle and behavioral factors of different people help determine the development of obesity.

## **5.1.1 Biological Factors**

In obese people, fat cells are larger than in lean people. Some people are born with hypercellular obesity, which means that they have a higher number of fat cells in their body. These can be developed over time because of overeating. By having a higher number of fat cells in their body it is much easier for them to gain weight.<sup>37</sup>

Table 7 shows a study was conducted to see how the number of adipose, or the lipids in the cells, is different in obese people than in non-obese people. It was shown that in different tissues in the body, the number of adipose is greater in obese people than in non-obese.

Table 7 - Adipose (Lipids in Cells) in Obese Patients<sup>37</sup>

			Subcutaneous			Deep			Mean	
Patient grou	ир	Gluteal	Abdominal	Triceps	Preperitoneal	Mesentery	Omental	Subcutaneous	Deep	All
Normocellula	r					×10°				
Nonobese Obese	(21) (17)	28±1 36±2*	31±2 37±1*	38±2 39±1*	29±1 38±1*	36±2 39±1*	$49\pm 3$ $45\pm 2$	$33\pm 2$ $37\pm 1$	39±2 41±1	$37\pm 1$ $39\pm 1$
Hypercellular Obese	(61)	73±3‡	78±3‡	84±3‡	78±3‡	90±4‡	100±5‡	78±2‡	89±4‡	84±3‡

Values represent the mean ±sem for (n) patients in each group. Significance of differences was tested by analysis of variance:

People with hypertrophic obesity have larger than average fat cells. They enlarge when fat is stored in them, and when they are full the body produces more fat cells. This leads to hyperplastic obesity, when the number of fat cells is so big that so many of them have to be created and the person has a large number of fat cells that are also very large.<sup>37</sup>

Once weight is lost, the number of fat cells remains the same, but they do become much smaller. This is also why it is so easy for people who have lost a lot of weight to gain it all back so quickly. The sex and age of the person also has a big impact on the development of obesity. Women have naturally more body fat than men, and when pregnant, fat storage increases to meet the higher energy needs of breastfeeding.

Race and ethnicity also plays a role in the development of obesity. Studies have shown that Hispanic and black women are more likely to be overweight than white women. According to the Center for Disease Control and Prevention (CDC), between 2006 and 2008, Blacks "had 51 percent higher prevalence of obesity, and Hispanics had 21 percent higher obesity prevalence compared with whites." <sup>39</sup>

<sup>\*</sup> P < 0.05, normocellular obese vs. nonobese.

<sup>‡</sup> P < 0.05, hypercellular obese vs. normocellular obese.

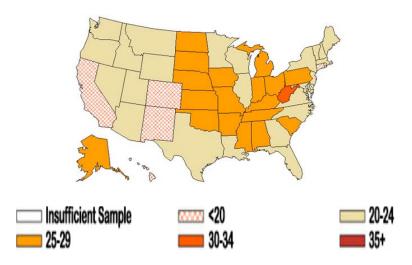


Figure 38 - Obesity trends among Whites 2006-2008<sup>38</sup>

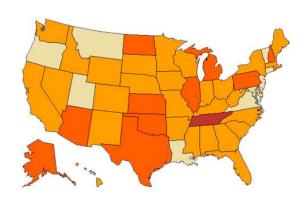


Figure 39 - Obesity trends among Hispanics  $2006\text{-}2008^{38}$ 



Figure 40 - Obesity trends among Blacks  $2006\text{-}2008^{38}$ 

This can further be seen in Figures 38 through 40 from the CDC. The data provided by the CDC shows that the prevalence of obesity among blacks and Hispanics is much larger than the prevalence of obesity among whites.

Trends in obesity for male and females also differ. Table 8 and 9 illustrate the study completed by Katherine Flegal and colleagues, which is used by the CDC. Table 8 shows the percentages of obese men, split into age based categories from 1999-2008.

Table 8 - Trends in the Age-Adjusted and Age-Specific Prevalence of Obesity in US Men over 20 Years or Older for  $1999-2008^{39}$ 

		No. (%) of Men [95%	Confidence Interval]	
	Age ≥20 y <sup>a</sup>	Ages 20-39 y	Ages 40-59 y	Age ≥60 y
Allb				
1999-2000	2043 (27.5) [24.4-30.6]	666 (23.7) [20.5-27.0]	595 (28.8) [23.0-34.7]	782 (31.8) [27.3-36.3]
2001-2002	2219 (27.8) [25.8-29.7]	750 (22.3) [19.4-25.1]	773 (32.2) [28.8-35.5]	696 (30.2) [26.5-33.9]
2003-2004	2237 (31.1) [28.5-33.7]	756 (28.0) [23.7-32.4]	649 (34.8) [29.9-39.7]	832 (30.4) [26.6-34.2]
2005-2006	2237 (33.3) [29.3-37.4]	793 (28.1) [22.3-33.8]	709 (39.7) [33.9-45.4]	735 (32.2) [28.1-36.3]
2007-2008	2750 (32.2) [29.5-35.0] <sup>c</sup>	896 (27.5) [23.8-31.2] <sup>c</sup>	883 (34.3) [29.8-38.8] <sup>c</sup>	971 (37.1) [33.1-41.0] <sup>c</sup>
Non-Hispanic white				
1999-2000	946 (27.3) [23.8-30.8]	276 (22.0) [17.3-26.7]	262 (28.5) [21.8-35.2]	408 (34.3) [28.8-39.9]
2001-2002	1157 (29.1) [26.5-31.7]	322 (23.9) [19.5-28.2]	407 (33.2) [29.5-36.9]	428 (31.5) [27.7-35.3]
2003-2004	1183 (31.1) [28.1-34.2]	336 (27.2) [21.4-33.0]	340 (35.6) [29.3-41.9]	507 (30.6) [26.3-35.0]
2005-2006	1145 (33.1) [28.7-37.5]	328 (25.8) [18.6-33.1]	368 (41.0) [35.0-47.0]	449 (32.9) [28.6-37.3]
2007-2008	1335 (31.9) [28.1-35.7] <sup>c</sup>	383 (26.3) [20.9-31.7]	391 (34.0) [28.1-39.8]	561 (38.4) [34.1-42.6]
Non-Hispanic black				
1999-2000	374 (28.1) [24.8-31.5]	125 (27.4) [22.0-32.8]	127 (29.9) [23.3-36.4]	122 (26.4) [18.5-34.4]
2001-2002	435 (27.9) [24.0-31.8]	148 (22.2) [16.4-28.0]	161 (30.0) [23.9-36.1]	126 (34.2) [25.3-43.0]
2003-2004	432 (34.0) [27.1-40.9]	175 (32.3) [24.1-40.5]	146 (37.6) [31.6-43.6]	111 (31.1) [17.8-44.3]
2005-2006	507 (37.2) [32.5-41.8]	185 (39.7) [33.3-46.0]	170 (34.8) [26.2-43.3]	152 (36.8) [31.3-42.2]
2007-2008	554 (37.3) [32.3-42.4] <sup>c</sup>	187 (34.7) [28.5-40.9] <sup>c</sup>	173 (39.7) [30.0-49.5]	194 (38.0) [31.3-44.7] <sup>c</sup>
Mexican American				
1999-2000	538 (28.9) [25.2-32.7]	184 (30.4) [24.2-36.5]	157 (27.0) [19.6-34.3]	197 (29.7) [22.0-37.4]
2001-2002	480 (25.9) [21.8-29.9]	215 (17.4) [11.1-23.8]	152 (34.8) [27.5-42.1]	113 (25.9) [19.5-32.2]
2003-2004	458 (31.6) [26.6-36.6]	165 (32.7) [23.0-42.3]	118 (31.8) [21.3-42.4]	175 (29.5) [22.0-36.9]
2005-2006	443 (27.0) [23.2-30.7]	210 (24.7) [19.5-29.9]	128 (27.6) [20.9-34.3]	105 (30.0) [20.7-39.2]
2007-2008	460 (35.9) [28.9-43.0]	195 (33.8) [22.7-44.9]	164 (38.2) [26.3-50.1]	101 (35.8) [21.9-49.8]

Among men, obesity prevalence was 32.2% overall, and within racial groups from 31.9% among non-Hispanic white men to 37.3% among non-Hispanic black men.

Table 9 - Trends in the Age-Adjusted and Age-Specific Prevalence of Obesity in US Women Ages 20 years or Older for  $1999-2008^{39}$ 

		No. (%) of Women (95% Confidence Interval)					
	Age ≥20 y <sup>a</sup>	Ages 20-39 y	Ages 40-59 y	Age ≥60 y			
Allb							
1999-2000	2072 (33.4) [30.0-36.8]	640 (28.4) [24.4-32.4]	653 (37.8) [31.2-44.4]	779 (35.0) [30.7-39.3]			
2001-2002	2171 (33.3) [30.2-36.3]	712 (29.8) [25.6-34.1]	721 (35.7) [31.6-39.9]	738 (35.2) [31.2-39.2]			
2003-2004	2194 (33.2) [29.7-36.6]	661 (28.9) [24.3-33.6]	662 (38.8) [33.4-44.1]	871 (31.5) [28.0-34.9]			
2005-2006	2119 (35.3) [32.5-38.1]	707 (30.5) [25.9-35.0]	718 (41.1) [36.5-45.6]	694 (34.4) [29.7-39.1]			
2007-2008	2805 (35.5) [33.2-37.7]	877 (34.0) [29.0-39.1]	910 (38.2) [33.8-42.6]	1018 (33.6) [30.2-36.9]			
Non-Hispanic white 1999-2000	885 (30.1) [25.9-34.3]	249 (24.4) [19.2-29.6]	249 (34.2) [25.1-43.3]	387 (33.3) [28.9-37.7]			
2001-2002	1130 (31.3) [28.0-34.6]	313 (25.2) [20.5-29.8]	376 (35.4) [31.3-39.6]	441 (35.2) [29.6-40.8]			
2003-2004	1174 (30.2) [25.9-34.4]	327 (23.8) [17.6-29.9]	333 (37.8) [31.1-44.5]	514 (28.9) [25.9-31.8]			
2005-2006	1048 (32.9) [29.4-36.5]	288 (27.4) [20.5-34.2]	340 (39.3) [34.4-44.1]	420 (32.3) [27.2-37.4]			
2007-2008	1283 (33.0) [29.3-36.6]	344 (31.3) [23.3-39.3]	402 (35.7) [29.7-41.7]	537 (31.4) [27.3-35.5]			
Non-Hispanic black 1999-2000	420 (49.7) [43.7-55.8]	140 (46.2) [38.3-54.1]	141 (53.2) [46.8-59.6]	139 (50.2) [36.1-64.4]			
2001-2002	434 (48.3) [42.9-53.6]	157 (47.2) [39.6-54.9]	148 (47.8) [41.6-54.0]	129 (50.8) [37.8-63.8]			
2003-2004	444 (53.9) [47.9-59.8]	153 (50.3) [41.1-59.6]	160 (57.5) [48.8-66.2]	131 (54.0) [43.9-64.2]			
2005-2006	512 (52.9) [48.7-57.0]	175 (47.7) [40.3-55.1]	195 (53.3) [46.8-59.8]	142 (61.0) [54.3-67.7]			
2007-2008	590 (49.6) [45.5-53.7]	191 (47.2) [41.3-53.1]	198 (51.7) [47.2-56.1]	201 (50.5) [40.5-60.5]			
Mexican American							
1999-2000	567 (39.7) [32.1-47.2]	180 (30.6) [19.3-41.9]	193 (48.5) [38.9-58.1]	194 (41.0) [32.6-49.3]			
2001-2002	445 (37.0) [30.6-43.4]	178 (31.5) [20.8-42.2]	139 (47.1) [38.8-55.4]	128 (30.2) [22.0-38.4]			
2003-2004	415 (42.3) [36.8-47.7]	130 (35.7) [28.6-42.9]	110 (48.3) [38.5-58.1]	175 (43.8) [37.7-49.9]			
2005-2006	400 (42.1) [36.4-47.7]	170 (36.5) [29.5-43.4]	124 (51.1) [42.2-60.0]	106 (37.1) [25.6-48.6]			
2007-2008	485 (45.1) [38.9-51.2]	189 (39.6) [33.7-45.5]	158 (48.9) [38.0-59.8]	138 (48.1) [43.0-53.3]			

Table 9 shows that among women, obesity prevalence was 35.5% overall, ranging from 33.0% among non-Hispanic white women to 49.6% among non-Hispanic black women.

#### **5.1.2 Social Factors**

There are many studies suggesting that socioeconomic status relates to obesity. According to the American Heart Association, in the early 1970s, 22.5 percent of the low-income adults were obese. On the contrary, 9.6 percent of higher income adults were obese in the 1970s. However, these numbers have been going up in the past few years. In 2002 32.5 percent of low-income adults were obese, and 26 percent of higher income adults were obese.

Additionally, education is a factor that seems to associate with body weight of women. It was found that overweight and obesity among women ranges from 60 percent for those with less than a high school education, and 29 percent of those with postgraduate college degrees.<sup>9</sup>

## **5.1.3 Lifestyle Factors**

Obesity is not caused by external factors but rather by the way Americans lead our lives. Exercise is one of the major factors contributing to obesity and gain of weight. The CDC defines the recommended physical activity as at least 5 days a week for 30 minutes a day of moderate intensity activity or at least 3 days a week for 20 minutes a day of vigorous intensity activity.<sup>40</sup>

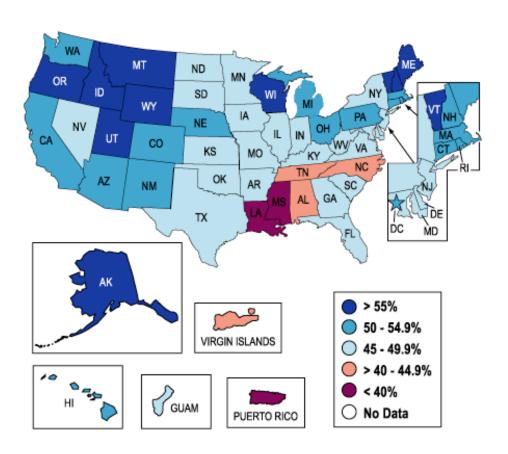


Figure 41 - Prevalence of Recommended Physical Activity in 2007<sup>40</sup>

As seen in Figure 41, there were very few states in which more than 50 percent of Americans were following the physical activity recommendations from the USDA. It is estimated that in 206 only 22 percent of adults in the US were getting the recommended amount of regular

physical activity, and that 60 percent were not active regularly. Additionally, 25 percent of Americans were not active at all.<sup>9</sup>

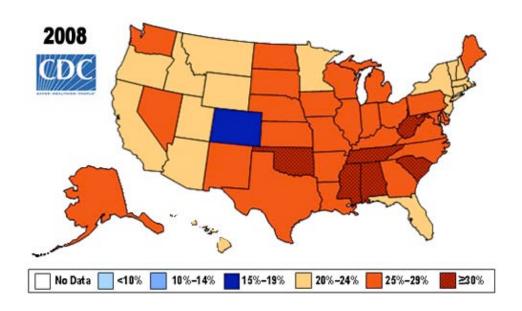


Figure 42 - Obesity Trend in US States<sup>40</sup>

Obesity trends also change within states, as is illustrated in Figure 42. Studies done by the CDC suggest that Alabama, Mississippi, Oklahoma, West Virginia and South Carolina are amongst the fattest states in the US, with 30 or more percent of obese persons.

## **5.1.4** Consequences of Obesity

There are many health complication associated with obesity. According to the USDA, there is correlation between weight increase and the level of obesity to the following conditions: coronary heart disease, type 2 diabetes, cancers, hypertension, stroke, sleep apnea, respiratory problem, gynecological problems, liver and gallbladder disease.<sup>41</sup>

#### Pathogenesis of Health Problems Associated with Obesity Environment Genes Food Intake **♦** Activity Excess fat stores Diseases due Diseases due to increased fat cell to increased fat size mass Diabetes Stigma Osteoarthritis NAFLD Sleep apnea **GB** Disease Cancer

Figure 43 - Pathogenesis of Health Problems Associated with Obesity (CVD, cardiovascular disease; GB gallbladder)  $^{41}$ 

Figure 43 shows how the pathology of obesity produces the myriad of health related problems. All of these health related problems can be attributed to either the increases mass of fat or the increased release of peptides form the enlarged fat cells.<sup>41</sup>

It is therefore not surprising to see that many of the leading causes of death in the United States are related to obesity. Table 10 shows the leading causes of deaths in 2006 and their numbers.

Table 10 - Leading Causes of Deaths in  $2006^{42}$ 

Cause	Number of Deaths
Heart disease	631,636
Cancer	559,888
Stroke (cerebrovascular diseases)	137,119
Chronic lower respiratory diseases	124,583
Accidents (unintentional injuries)	121,599
Diabetes	72,449
Alzheimer's disease	72,432
Influenza and Pneumonia	56,326

Heart disease, also referred to as cardiovascular disease, is the number one cause of death in the United States and is directly related to obesity. This also holds true for Cancer, stroke, reparatory disease and diabetes, as indicated by Table 10.

Table 11- Deaths caused by Health Effects from Diet<sup>29</sup>

Cause of death		Age at death				
	< 55	55-64	65-74	75 +	Total <sup>1</sup>	
		Total number of deaths				
Coronary heart disease	28,549	45,567	104,184	303,123	481,458	
Cancer	68,857	89,251	163,795	212,391	534,310	
Stroke	9,382	9,577	25,386	108,954	153,306	
Diabetes	6,306	7,784	15,744	26,856	56,692	
All 4 causes	113,094	152,179	309,109	651,324	1,225,766	

<sup>&</sup>lt;sup>1</sup> Numbers may not add up to total number of deaths because no age is reported for some deaths.

In a study conducted in 1994, the number of deaths from the four major causes of death influence by diet was analyzed. Table 11 shows that the numbers of deaths in the US for these four causes were very large.

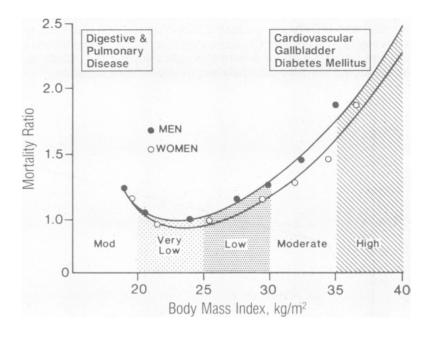


Figure 44 - Relationship of BMI to Mortality Risk<sup>41</sup>

There is also a direct link between the ratio of mortality and obesity. Figure 44 shows the relation of body mass index to mortality risk. A study, conducted by George Bray and colleagues, found that the mortality ratio increases for men and women with higher body mass indexes. It is also higher for men and women with very low BMI number who are underweight.

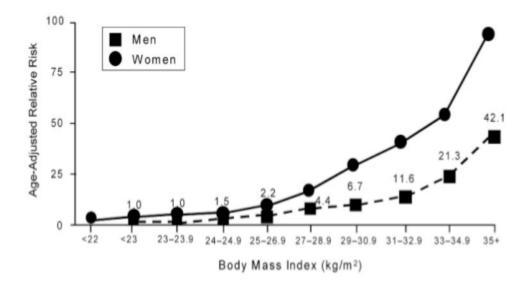


Figure 45 - Risk of Developing Diabetes Mellitus<sup>41</sup>

In another study conducted by George Bray, the risk of developing diabetes mellitus in men and women based on their BMI numbers was examined. Bray points out that diabetes mellitus is strongly associated with overweight in both genders in all ethnic groups. Figure 45 shows the relationship between the increasing BMI and the risk of developing diabetes mellitus. Brays further explains that the duration of being overweight and the central distribution of the fat also has an effect on this risk.<sup>41</sup>

Table 12 - Obesity Rates are Increasing<sup>29</sup>

Gender and age	1977-78	1994-96			
	Percent overweight				
Males		_			
20-29	12	22			
30-39	20	32			
40-49	24	37			
50-59	23	40			
60-69	20	41			
70+	13	22			
20 and over	18	32			
Females					
20-29	12	22			
30-39	18	27			
40-49	26	36			
50-59	30	38			
60-69	31	38			
70+	24	33			
20 and over	22	32			

<sup>&</sup>lt;sup>1</sup> Based on a Body Mass Index of 27.8 or more for men and 27.3 or more for women (DHHS, 1991).

Table 12 illustrates that the percent of overweight adults in the United States has increased in the past two decades. Between 1977and 1978 only 18% of all adult males and 22% of adult females were overweight in the United States. Between 1993 and 1996 the numbers increased, with 32% of adult males overweight and 32% of females overweight.

## **5.6 Fast Food in the United States**

Fast food is everywhere and contributing the obesity around the nation and world. Americans are eating out twice as much as often as they did in the 1970s, so the average adult and child consumes one-third of their Calories from restaurants and other food establishments.<sup>43</sup> McDonald's, one of the world's largest fast food restaurants, operating over 31,900 restaurants

worldwide and serving over 58 million people per day,<sup>44</sup> is one example of the fast food restaurants contributing to today's obesity rates.

Like many other fast food restaurants, McDonald's success can be contributed to its fast, cheap, on-the-go food. Its dollar menu allows people to buy specific menu items for only \$1. For example, for breakfast, they can purchase a sausage biscuit, or a sausage burrito, or a sausage McMuffin all for 1 dollar. For lunch and dinner the menu changes, and other appropriate items such as the McDouble and the regular fries are charged at \$1.45

Many items, like popular BigMac, as seen in Figure 46, are high in Caloric value and provide a substantial amount of the day's Caloric intake in one part of the meal.



Figure 46 - McDonald's BigMac<sup>45</sup>

According to McDonald's nutritional information the BigMac has a Calorie content of 540 Calories, supplying the average 25-year-old male who lives a sedentary lifestyle with 22.5% of their daily caloric intake. However, this is an average number on the nutritional information list for McDonald's menu. The hamburger placing first in Caloric intake is the Angus&Bacon Cheeseburger, with a Calorie content of 790 Calories. The large French fries contain 500

Calories, and the average milkshake, like the Vanilla triple thick shake (32fl oz) contains a whooping 1100 Calories. On average, it is found that people who eat fast food consume more than one-thirds of their day's energy needs from fast food.<sup>46</sup>

Fast food restaurants are associated with obesity and are known for contributing to the greater prevalence of obesity in deprived neighborhoods.<sup>47</sup> People who are overweight eat more when they eat fast food. A recent study published in the Journal of the American Medical Association, tested the hypothesis that overweight individuals are more susceptible to the adverse effects of fast food than lean individuals. In the first part of the study, the participants were put in a food-court setting and were given an "extra large" fast food meal. They were instructed to eat as much as they want.<sup>48</sup>

Table 13 - Energy Intake from Fast Food Meal<sup>48</sup>

	Mean	(SEM)	
Variable	Overweight (n = 26)	Lean (n = 28)	P Value
Energy intake, kcal Energy intake, % total energy expenditure	1860 (129) 66.5 (3.1)	1458 (107) 57.0 (2.9)	.02 .03

The results, as indicated in the Table 13, show that the overweight individuals ate significantly more than the lean individuals. In the second part of the study, the participants' Caloric intake was monitored over a 4-day period. On the first 2 days, participants were allowed to eat fast food, while on the second 2 days they were not allowed to eat fast food.

Table 14 - Total Daily Energy Intake on Fast Food and Non-Fast Food Days<sup>48</sup>

## Total Energy Intake, Mean (SEM), kcal/d

Group	Fast Food Day*	Non-Fast Food Day	Difference, kcal†	P Value‡
Overweight (n = 24)	2703 (226)	2295 (162)	409 (142)	.02
Lean (n = $27$ )	2575 (157)	2622 (191)	-47 (173)	.76

<sup>\*</sup>Recalled energy intake from fast food was a mean (SEM) of 1107 (80) kcal for overweight and 1047 (56) kcal for lean adolescents.

The results, seen in Table 14, show that the overweight individuals consumed a larger amount of food on the days during which fast-food was allowed than on the days during which fast food was prohibited. The lean individuals did not have a major discrepancy between their energy intakes during the fast food and non-fast food days. These results indicate that overweight individuals are more likely to eat more when they eat fast food. A similar study conducted by Bowman and colleagues confirmed these results, and concluded that adults who reported eating fast food have a higher BMI than adults who did not report eating fast food. 46

There has recently been a shift in focus in the fast food industry, to cater to the health conscious crowd. Taco Bell has recently introduced the "Drive-Thru Diet" menu, sporting the motto "Eating Better Just got Easier". This menu features 7 items with less than 9 grams of fat, and claims to have helped an individual, Christine Dougherty, to lose 54 pounds.<sup>49</sup>

McDonald's salads also offer an alternative to the usual burger and fries, and have been on their menu since 2003. They added a Fruit and Walnut desert in 2005, and introduced the "Go Active! Happy Meal" for adults in 2004. This happy meal included a pedometer, a booklet by Bob Greene (Oprah's personal trainer), a salad, and water or a soft drink.<sup>50</sup> This program was introduced shortly after the Super Size Me Documentary debut, which caused a controversy over the healthy implication of McDonalds' food, and was discontinued after a few months.<sup>50</sup>

<sup>†</sup>Difference scores are for fast food day – non–fast food day. ‡The P value for the type of day (fast food vs non–fast food) by obesity status (overweight vs lean) interaction was .05 unadjusted and .04 after adjustment for self-reported relative amount of food intake.

Dunkin' Donuts introduced the "Smart Menu" which consists of "Better-For-You choices that keep you running". The menu features lower Calories menu, such as egg white flatbread sandwiches, "lite" coffee drinks and iced tea, multigrain bagels, and reduced-fat cream cheese.<sup>51</sup>

There have been other fast food restaurants promoting their healthy or low- Calorie food items. Subway has claimed that their sandwiches are low-Calorie, and had help promoting their healthy products when Jared Fogle lost 245 pounds and claimed he did so by eating Subway twice a day.<sup>52</sup> They had also been featured multiple times on the show Biggest Loser as an alternative to typical fast food when participants are on the road and need to eat.<sup>52</sup>

However, many critics are expressing their doubts and are warning people to be wary of the healthy eating promotional activity from the fast food industry. In the article by the New York Times, Elizabeth Somer, the author of "Eat Your Way to Happiness" suggests that consumers should be "careful of anything the fast-food business has to say about reduce-Calorie, or healthy options." In the same article, Kirsten Bibbins-Domingo explains that when the Calories are taken out of the meals, the sodium is then added to "make things taste good" and that "the salt is so far in excess" in these healthy fast food alternatives that "it counteracts any healthy benefits". 53

The American Heart Association recommends that people should "choose and prepare food items with little to no salt to reduce the risk of cardiovascular diseases" and to "aim to eat less than 1500mg of sodium per day." Studies have shown that reduction in sodium can reduce the risk of cardiovascular disease, 55 yet most of the food items on the healthy fast food options are high in sodium content. Three items (out of seven) on the Taco Bell Drive-Thru Diet menu have sodium content higher than 1000mg, with the Chicken Fresco Burrito Supreme holding first place with 1410mg of sodium and all of the items on the Drive-Thru Diet menu of sodium content of at least 350mg. 56 The Ham, Egg White & Cheese on English Muffin on the Dunkin' Donuts Smart

Menu contains 1150mg of sodium, their Egg White Veggie Flatbread contains 680mg of sodium and their multigrain bagel contains 600mg of sodium.<sup>58</sup>

Additional problems with the fast food industry are the faulty nutritional information reporting. Studies have shown that measured energy values from fast food restaurants and sitdown restaurants averaged 18% more than the stated energy values and frozen meals from supermarkets averaged 8% more.<sup>53</sup> With these results nutritionist Elizabeth Somer warns that "Even if [the fast food restaurants] are offering healthy fare, go into it with a wary eye — more likely they are tricking you."<sup>59</sup>

## **5.7 Summary**

Chapter 5 reviewed food habits of Americans, the obesity problem in the United States and the relationship between fast food and obesity in America. Americans diets are out of balance with dietary recommendation, and many Americans are obese. This can be attributed to many factors. There has been a 300 Calorie increase in the mean Calories consumed per person per day in the United States since 1909. Total meat consumption has increased dramatically, especially with red meat and poultry. The consumption of carbonated soft drinks has increased from 10 gallons per capita to around 55 gallons per capita since 1945 and added sugar consumption has also seen a dramatically increase.

Additionally, fast food consumption in the United States is contributing to the rising obesity rates. Many fast food restaurants serve Calorie-dense foods, which are highly processed and high in sodium content, as well as a reduced amount of valuable nutrients. Overweight individuals tend to consume more food when eating in fast food restaurants. When obese individuals are unable to lose weight, their obesity can result in many different diseases that are often fatal. Chapter 6 reviews and analyzes the results obtained from the surveys introduced in chapter 3.

## 6.0 Food, Diet, and Nutrition Awareness

Surveys are a common mode of data collection to monitor changing food habits. Many Government agencies, such as the CDC and USDA conduct many surveys to gain insight into the food habits and trends in the United States. For the past 100 years, the USDA has been conducting the "100 Years of Eating in America" survey, gaining insight into the trends of the food consumption in America. Similarly, the CDC completed research every year regarding obesity percentages in the United States, to see how the obesity rates are changing. Several surveys were conducted for this project. This section discusses and analyses the results of each survey.

## **6.1 Efficiency of Diets**

As indicated in the Methodology section, the Efficiency of Diets survey was sent out to participants online, and the full responses are outlined in Appendix 12.1.2. It was found that the most prevalent diets amongst survey takers were Weight Watchers followed by Atkins, South Beach Diet and then Jenny Craig, as illustrated in Figure 47. For the four popular diets (Atkins, Weight Watchers, Jenny Craig, South Beach) further data was analyzed.

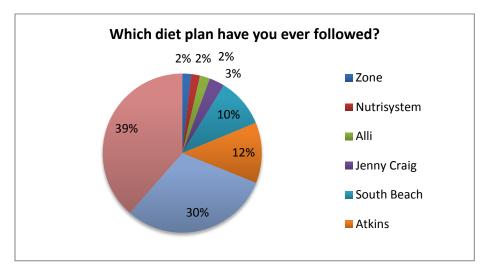


Figure 47 – Popular Commercial Diet Percentages

Weight Watchers was the most popular diet, and it was found that 118 out of the 633 survey takers had followed that program. Scientific publications were not found regarding the specific reasons for Weight Watchers' success. Weight Watchers' popularity can be attributed to different factors. The Weight Watchers marketing is a lot stronger than some of the other popular diets, and TV commercial and magazine advertisements are regularly seen. Dieting programs like Atkins and South Beach Diet do not have similar marketing programs. Additionally, during the Weight Watchers program dieters attend weekly group meeting where they receive the support that they need. Many people might find it comforting to lose weight with other people, and are motivated by their peers' loss and support. Additionally, group meeting are led by people who have lost a lot of weight on the Weight Watchers diet and provide dieters with first hand evidence that the diet does work, which can help push and motivate them.<sup>59</sup> Lastly, the Weight Watchers diet does not prohibit the dieters from eating specific foods (unlike Atkins or the South Beach diets), which can also appeal to many people – this is further discussed in chapter 7.4.

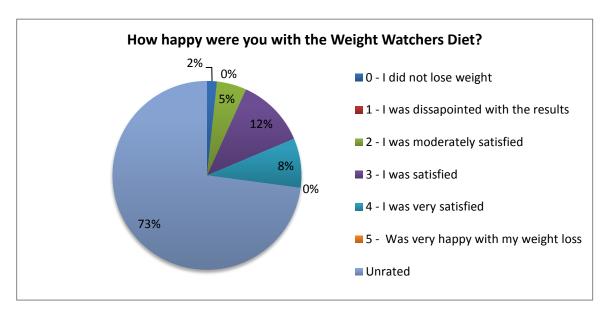


Figure 48 – Satisfaction with the Weight Watchers Diet

As seen in Figure 48, none of the dieters rated the Weight Watchers diet a 5, and most dieters rated the diet a 3, indicating that most were content with their diet, but not very happy. This may be the case since it was found that about 50% of participants in a Weight Watchers group attended less than seven sessions and lost only about 2.2lbs.<sup>59</sup> While dieters are able to lose weight, they do not lose a lot and usually stop the program after seven sessions.

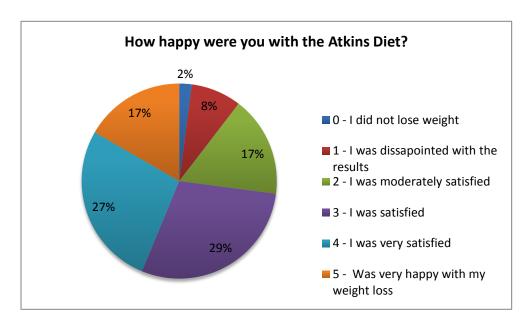


Figure 49 – Satisfaction with the Atkins Diet

Atkins was the second most popular diet amongst survey takers. Figure 49 shows that most dieters rated the diet either a 3 or a 4, although there was a significant amount of dieters that rated Atkins a 5, indicating that their results with the diet were very successful. In chapter 7.1, the Atkins diet is reviewed, and the nature of diet is such that many people are able to lose a lot of weight quickly due to the loss of water weight. This might be a factor that increases the satisfaction with the diet. The survey did not account for the long term results people had had with the diets, thus no conclusions can be drawn in saying if dieters were able to maintain the weight loss.

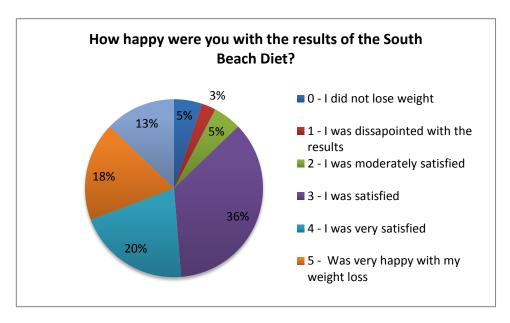


Figure 50 - Satisfaction with the South Beach Diet

The South Beach Diet was the third most popular diet, with only 5 out of 39 dieters with unrated satisfaction questions. Results, illustrated in Figure 50, were quite similar to those of the Atkins diet, although most dieters rated their satisfaction with the diet a 3. As the South Beach Diet and the Atkins diet are similar in nature, reasons for the satisfaction may be similar, due to the possibility of losing a lot of water weight during the diet.

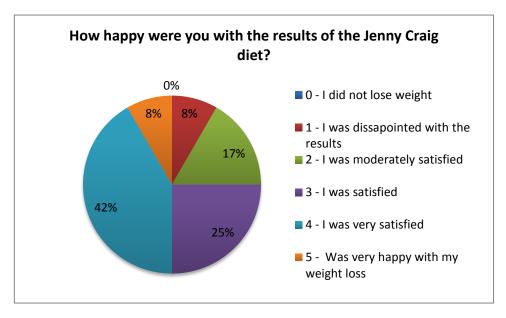


Figure 51 - Satisfaction with the Jenny Craig Diet

It was found that most dieters of the Jenny Craig diet rated the diet a 4. As seen in Figure 51, all participants that had been on the Jenny Craig diet lost weight. There was no participant who rated the diet as a 0. The Jenny Craig diet is further explained in chapter 7.3, the basic principle of the diet is pre-made meals delivered to the dieters' home from the company. The reason many people might have been satisfied was because they did not have to prepare any of their meal, and the meals they receive are tailored to the dieter's nutritional and caloric needs which will help them lose the weight. As this diet is easy to follow, this might be a reason many people were quite satisfied with their results.

It was also important to see the relationship between those who have been dieting and have tried the four popular diets and how they feel about their current weight. Of those who had followed at least one of the four diet plans, only 28% were found to be happy with their current weight. Studies indicate that higher, unhealthy BMIs are associated with lower weight satisfaction, as well as less inclination to exercise. This indicates that most participants that have been on commercial diets were not able to maintain their weight lost, or never lost as much weight as they wanted, as their BMIs are probably higher. Additionally, according to the CDC, in 2005, 67% of Americans were overweight or obese. This is quite close to the 72% of people who had indicated in our survey that they were not happy with their weight. This indicates that for most of these people the commercial diets did not work and they were still unhappy with their weight.

# 6.2 Food Nutrition Awareness Survey in Morgan Dining Hall in Worcester Polytechnic Institute

As introduced in section 3.2, a survey was conducted in the Morgan Dining Hall at Worcester Polytechnic Institute. The Morgan Dining Hall at Worcester Polytechnic Institute is the main dining hall for the university. Students use a card to swipe into the hall, and then have free access to all of the food items and can eat as much as they want. The food choices range

from a salad bar, to a grill, hot meals that change daily, pasta bar, pizza bar, sandwich bar and a dessert bar.



Figure 52 - Salad Bar at Morgan Dining Hall

The salad bar option, as seen in Figure 52, at the Morgan Dining Hall allows students to create their own salads. They have a choice of Kraft salad dressings, or even just simply oil and vinegar.



Figure 53 - Pizza Bar at Morgan Dining Hall

The pizza bar, as seen in Figure 53, at the dining hall is a popular option. Students take as many slices as they want and new pizzas are prepared during the hours of operation of the dining hall.



Figure 54 - Cookie Selection at Morgan Dining Hall



Figure 55 - Pie Selection at Morgan Dining Hall

The dessert bar consists of a cookie and pie selection, as seen in Figures 54 and 55. Some cookies are pre-bought, but the favorite chocolate chip cookies are baked during the operation of the dining hall. All pies and cakes are baked as well. Other options, such as fruits for dessert are also available in the dining hall as seen in Figure 56.



Figure 56 - Fresh Fruit at Morgan Dining Hall

As mentioned in section 3.2, there were binders with nutritional information available in the front of the dining hall. The binders were borrowed from the dining hall with permission, in order to see how extensive the nutritional information in them was.

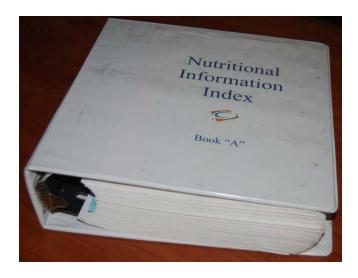
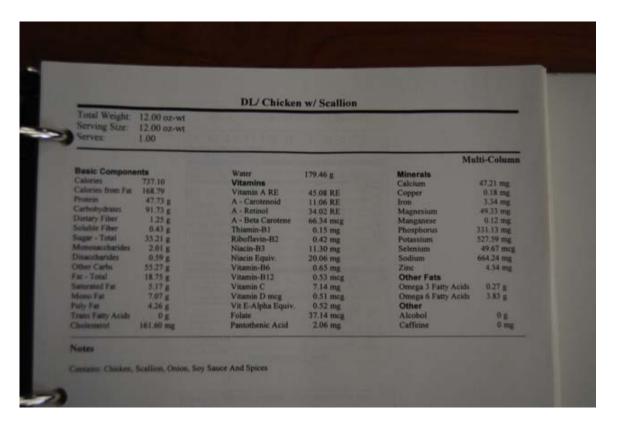


Figure 57 - Nutrition Binder

There were three binders named "Nutritional Information Index", books "A" through "C". The binders were big, and heavy, with over a 1000 pages per binder. Figure 57 illustrates the size and large amount of pages a binder. The binders did not include page numbers, an index, or a table of contents, which made looking up recipes and foods impossible. Although there was a fair amount of alphabetical listing arrangement, it was found that some binders had repeated recipes in them. Some of the binders had more recipes than others, and it was unclear if each binder was supposed to include the same information or simply to be an extension of the previous binder.

Specific recipes were looked up but were missing (French bread pizza, chicken nuggets, and special fries). Upon further investigation it appeared as if the binders were completely out of date. This was also confirmed with the manager, Leslie Lofgren. Figure 58 is an example of the nutritional information provided for a specific recipe:

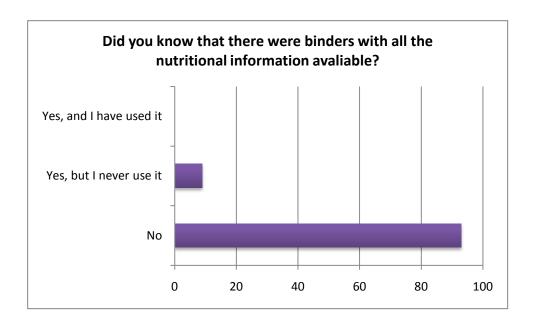


**Figure 58 - Nutrition Example** 

There were many pages like this one in the binders, with plenty of nutritional information, unfortunately outdated. Students are usually in a hurry and have limited time they can spend in the dining hall, and it was suspected that not many students use them, disregarding the fact that the binders are out of date.

### 6.2.1 Results from the Morgan Dining Hall Survey

It was found that only 9% of the students were aware of the binders located in the dining hall and none of them had ever used them to look up the nutritional value of their meals as indicated in Figure 59.



**Figure 59 - Nutrition Binders Awareness** 

This suggests that the student population might not be interest in the nutritional information of their food. When students were asked if having the nutritional information available for all the food items in front of the food would influence their food choices in the dining hall 68% said it would. There was a noticeable difference between the responses of the males and the female population.

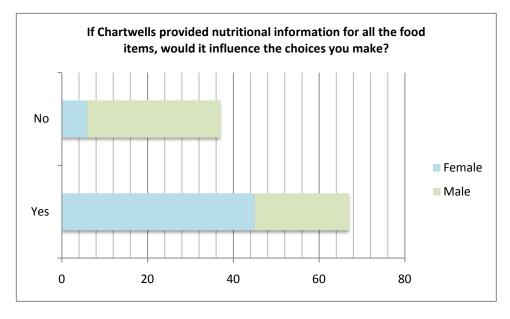


Figure 60 - Female versus Male breakdown

As seen in Figure 60, only 6 females (11% of females) – had answered that having the nutritional information for each food item would not change their choices. However, a larger percentage of males said no -31 males, around 59% of the male population of the survey.

Overall, 68% of students believed that having nutritional information in front of each food item would influence their food choice decision. In order to find out if this is true, the second part of the survey was conducted.

As the first survey indicated, only 9% of students were aware of the binders with the nutritional information. This is why for the select food items that were chosen, the nutritional information (specifically - the Caloric value of one serving of that food item) was displayed in front of the food item, in a bold and large font.

After students had taken their food and sat down, they were asked if the amount of food that they had taken was influenced by the nutritional information that was posted. It was very surprising to see that although originally 68% of students thought that having the nutritional information there would influence their food choice, only 24% of the students found that having the nutritional information there helped them make a decision regarding their food choice. Some students indicated that although the nutritional information of the food item did not influence their choices, they liked the idea of having it there. In contrast, there were some students that indicated that they did not think it was necessary to put nutritional information for food items in the dining hall. Most students in the dining hall that saw the nutritional information "ignored" it, as they had reported.

A recent study by Yamamoto and colleagues was conducted to determine if adolescents would modify their ordering behavior if Calorie and fat nutrition information were posted on the restaurant menu.<sup>62</sup> The adolescents were asked to choose a dinner of their choice from three different fast food restaurants. It was found that out of the 106 adolescents, 75 (70.7%) did not

change any of their order after being shown the Calories and fat content information. Of the 27 adolescents who rated themselves as too fat or slightly overweight, only 9 changed their orders. These results are quite similar to the results obtained in this survey, even though the study conducted by Yamamoto was targeted at adolescents. Yamamoto points out that adolescents may be particularly resistant to nutritional interventions, however, none of the subjects in this survey were adolescents – they were all college students over the age of 17. 62

Many studies have been conducted to see if age is a critical factor affecting the use of nutritional labels. Studies have found that as age increases, the probability of using nutritional labels decreases while other studies have found the opposite, therefore no concrete conclusion can be made. However, it was found that females were more likely to read nutritional information, as well people who have a higher level of education.<sup>63</sup>



Figure 61 - Chicken Nuggets and Fries Serving Size

Figure 61 shows the actual recommend serving size (from the manufacturer) of the chicken nuggets and the special fries that were served during the survey. Random student's plates were then photographed as well for comparison.



Figure 62 - Student's Lunch

This student's entire meal is photographed in Figure 62. Note that the amount of fries and chicken nuggets is quite larger than that of the recommended serving size. Additionally, there is a large serving of blue cheese sauce, and two pork tacos with cheese, lettuce and tomatoes; the drink is Coca Cola.



Figure 63 - Student's Lunch



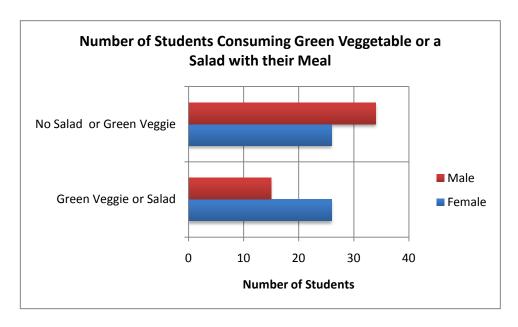
Figure 64 - Student's Lunch

Figure 63 shows another student's meal that consisted of the fries (a very large serving), 3 pieces of chicken Parmesan and pasta salad. The second student's meal in Figure 64 consisted of a large serving of chicken nuggets, fries and some steamed vegetables.



Figure 65 - Student's Lunch

Another student, whose plate consisted of fries and a serving of chicken nuggets is seen in Figure 65. Using the data from the survey, it was estimated that the average student consumed around 1100 Calories during their lunch meal. In chapter 4.5, the Government recommendation for nutritional intake is discussed. Accordingly, the average student at the Morgan Dining hall is consuming 55% of their daily Caloric intake needs at lunch. As the dining hall is open for three meals a day, students are consuming more than they should during their lunch session.



**Figure 66 - Students Eating Vegetables** 

On average, most students did eat from the hot option (chicken nuggets and special fries), but most students did not eat any vegetables along with it. Overall, Figure 66 shows, 59% of students did not consume some sort of green vegetable (peas, green beans, peas and corn, pea and onions, squash) or a salad with their meal. Of the 41% that did eat a salad or green vegetables with their meal, 63% were female.

Specific data on the obesity rates on the WPI campus were not taken, however during the completion of the survey it was noted that most students in the dining hall were of normal weight. Studies indicate that on college campuses in the United States, exercise and dietary patterns did not meet the recommended guidelines for many of the students, and that on average women tend to gain  $3.75 \pm 9.92$  lb [mean  $\pm$  SD] from freshman to senior year, and males gain  $9.26 \pm 14.11$  lb. The weight many students gain may have long-term health implications.<sup>64</sup>

It is apparent from the results of the surveys that there are a few problems on the WPI campus. While students believed that the nutritional information would influence their decision, most students did not care for the simple Caloric information that was displayed. Additionally, students consumed a large amount of food during their lunch meal, and most students did not eat

vegetables with their food. Possible solutions regarding these problems are introduced in section 9 of the report.

### 6.2.2 Changes

Shortly after the survey was conducted, it was found that the nutrition binders, albeit still out of date, were placed in a spot where they were easier to find. Additionally, the management has put up several nutritional information charts for a few select food items in the dining hall.

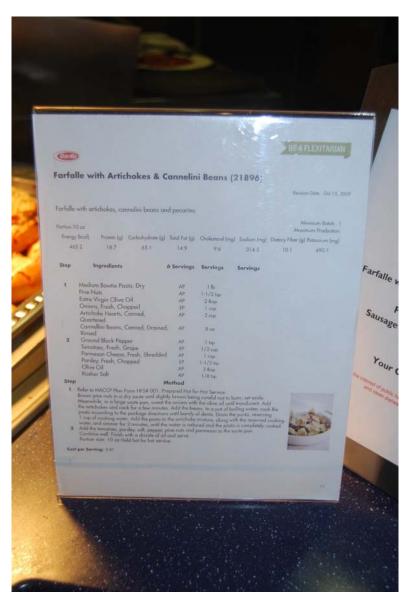


Figure 67 - Nutritional Information for Pasta Dish

Figure 67 shows the nutritional information that was put up for a pasta dish. There was no discussion with the management of the dining hall regarding the changes; it is suspected that they created the changes due to the surveys conducted.

#### 6.3 Nutrition Label Awareness

As outlined in section 3.3, the nutrition label awareness survey was conducted in a local supermarket. This was conducted in order to find the percentage of people who use the nutritional labels when they pick out a new food item.



Figure 68 – Nutrition Label Awareness Results

The study found, as seen in Figure 68, that only 16% of the participants always read the nutritional label when they buy a food item they are unfamiliar with. On the other hand, 40% of the participants said that they never read the nutritional labels on their food items. These results are distinctly different from the ones outlined in the New York Times article as discussed in section 3.3. One hypothesis for this may be because this survey was conducted in an actual supermarket, and the participants were actively grocery shopping when they were being surveyed.

They were more aware of their nutrition label awareness, as they were buying food items at the time of surveying.

## 6.4 Healthy Living and Easy Dining on \$37 a Week

As indicated in chapter 3.4, in this survey healthy food and unhealthy food was purchased in a supermarket for \$37. Additionally, a weekly food menu consisting of items from a fast food restaurants was created using \$37.

**Table 15 - Unhealthy Dining** 

Item	Amount (\$)
Potato Bread	2.00
3x Chicken Cheddar Cheese Patties (27oz total)	3.00
3x Pre Made Pasta Dish	3.00
Hungry Jack Mashed Potatoes	2.50
12 pack of Soda	5.00
Large Doritos	3.00
Fruit Loops Cereal	4.00
0.5 gallon milk	1.89
Large frozen pizza	5.99
Ice cream 0.5 gallon	2.99
Premade frozen Breakfast egg and sausage sandwiches	4.00
Total Price	37.37

Table 15 shows the unhealthy processed food that was bought using 37.37 dollars. Table 16 shows the healthy natural food that was bought using 37.73. All food items, on both the healthy and the unhealthy lists were bought in the same supermarket the *Price Chopper* in

Worcester, MA. When creating the food items in the supermarket it was obvious that there was a lot more food in the unhealthy food item list.

**Table 16 - Healthy Dining** 

Item	Amount (\$)
4 tomatoes	3.99
Lettuce mix	3.99
2 lb carrots	2.00
2 cucumbers	2.00
5lb apples	4.00
5 bananas	1.50
5 lb potatoes	1.99
Fresh angel hair pasta	2.99
Jarred pasta sauce	2.00
Chicken breast 1.5 lbs	6.99
Dozen eggs	2.39
½ gallon of milk	1.89
Whole wheat bread	2.00
Total Price	37.73

Table 17 shows the list that was made for a week's worth of food from Fast Food Restaurants. Although for all days the total Calories does not exceed 2000 Calories, it must be noted that all items were taken off of the value menus from the restaurants in which the food items are smaller.

Table 17 - Fast Food Dining<sup>65,66,67,70</sup>

Day	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Restaurant	McDonald's	Taco Bell	Burger King	Jack In the Box	McDonald's	Burger King	Taco Bell
Breakfast	Premium Roast coffee, Sausage Biscuit	Bean Burrito, Caramel Apple Empanada	Coffee, Ham Omelet Sandwich	Grilled cheese	Premium Roast coffee, Sausage Biscuit	Coffee, Ham Omelet Sandwich	Bean Burrito, Caramel Apple Empanada
Lunch	Small Fries, Soft drink, Mc Double	Cheese roll up Cinnamon Twists	Double cheeseburger, coca cola, onion rings	Taco nachos, chicken sandwich	Small Fries , Soft drink, Mc Double	Double cheeseburger, coca cola, onion rings	Cheese roll up, Cinnamon Twists
Dinner	McChicken, Soft Drink	Triple Layer nachos	Apple pie, whopper junior	Hamburger deluxe	McChicken, Soft Drink	Apple pie, whopper junior	Triple Layer nachos,
Total Cost (\$)	7	4.45	7	4	7	7	4.45
Total Calories	1780	1390	1365	1626	1780	1365	1390

Figure 69 shows the specific nutritional information for the McDonald's daily Menu. The Caloric value comes out to be 1780 Calories. While this is 220 Calories less than the average 2000 Calories recommended, the sodium is 3100mg, more than double the amount of the recommended sodium intake.

Products	Calories	Calories From Fat	Total Fat (g)	Saturated Fat (g)	Trans Fat (g)	Cholesterol (mg)	Sodium (mg)	Carbohydrates (g)	Dietary Fiber (g)	Sugars (g)	Protein (g)	Vitamin A (IU)	Vitamin C (mg)	Calcium (mg)	Iron (mg)
✓ Coffee (Small) §	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+ Sausage Biscuit with Egg (Regular Size Biscuit)	510	290	33	14	0	250	1170	36	2	2	18	300	0	100	3.5
✓ Small French Fries	230	100	11	1.5	0	0	160	29	3	0	3	0	5	10	0.5
✓ Coca-Cola® Classic (Small) §	150	0	0	0	0	0	10	40	0	40	0	0	0	0	0
+ ✓ McDouble	390	170	19	8	1	65	920	33	2	7	22	280	1	200	3.5
+ McChicken ®	360	150	16	3	0	35	830	40	2	5	14	45	1	120	2.5
✓ Coca-Cola® Classic (Small) §	150	0	0	0	0	0	10	40	0	40	0	0	0	0	0
Total :	1780	710	79	27	2	350	3100	219	8	94	56	620	7	440	9.5
% Daily Value ** :		٠	122	136	٠	116	129	73	33	٠	٠	10	10	45	50

Figure 69 - McDonald's Menu Nutritional Information  $^{65}$ 

Figure 70 shows the nutritional information for the Burger King menu. The caloric value of this menu was lowest from all fast food restaurants. In this menu the sodium content was very high as well, around 1000mg of extra sodium than needed.



Figure 70 - Burger King Menu Nutritional Information  $^{66}$ 

Figure 71 shows the nutritional information for the Taco Bell menu. With only 1300 Calories and only 5 different menu items the sodium content was 3040mg, twice the amount of the recommended daily intake.

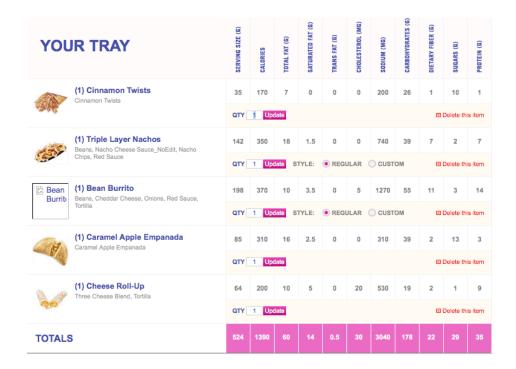


Figure 71 - Taco Bell Nutritional Information<sup>67</sup>

Figure 72 shows the nutritional information for the Jack in the Box menu. The Jack in the Box menu consisted of only 4 items, however it was 1626 Calories. This is most of the Caloric intake for the average person per day,<sup>68</sup> but does not include important nutrients at all. Most importantly, the nutritional requirements for fruits and vegetables are not met, and the sodium requirements are exceeded by around 1500mg.<sup>69</sup>

Tray  ☑ Remove item		Calories	Calories from Fat	Total Fat (g)	Saturated Fat (g)	Trans Fat (g)	Cholesterol (mg)	Sodium (mg)	Potassium (mg)	Carbohydrate (g)	Dietary Fiber (g)	Sugars (g)	Protein (g)
Grilled Cheese	⊠	328	147	16	6	0	22	802	129	34	2	3	11
Chicken Sandwich	⊠	438	207	23	3	0	34	906	254	41	2	3	15
Taco Nachos	⊠	498	272	31	9	1	40	655	356	41	3	3	16
Hamburger Deluxe	⊠	362	171	18	5	1	38	579	301	33	1	5	14
	TOTAL	1626	797	88	23	2	134	2942	1040	149	8	14	56

Figure 72 - Jack in the Box Nutritional Information 70

Overall the food items from the fast food menu were high in sodium and highly processed. The unhealthy food list that was created in the supermarket had a lot more food content than the healthy one. This information will be beneficial for the discussion of obesity in the report.

## 6.5 Worcester Polytechnic Institute Healthy Eating Campaigns Survey

As indicated in chapter 3.5, the survey was conducted online to gain a better understanding of WPI's community reaction to healthy eating campaigns.

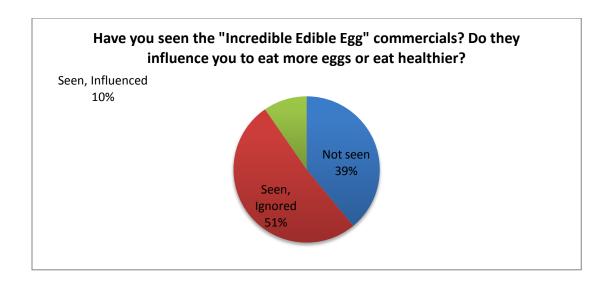
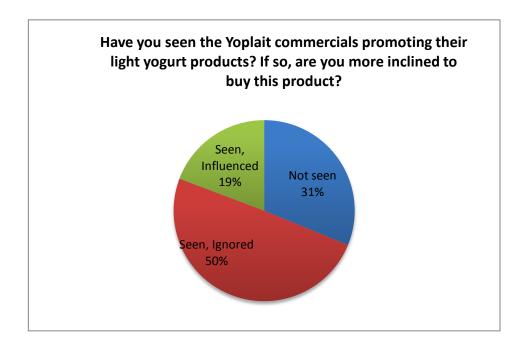


Figure 73 - Incredible Edible Egg Results

The Incredible Edible Egg is a campaign sponsored by the American Egg Board, promoting eating eggs and eating healthy. Figure 73 shows that only 61% of the participants were aware of this campaign. Only 10% of the participants were influenced by this campaign.



**Figure 74 - Yoplait Commercial Results** 

It was found that 69% of the participants had seen the Yoplait commercials promoting their low-fat attributes. Figure 74 shows that 19% of the participants were influenced by these commercials.

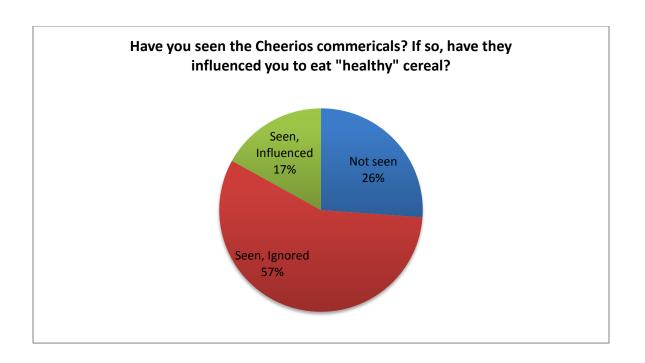


Figure 75 - Cheerios Results

Figure 75 shows the results to the Cheerios commercials question. It was found that 74% of the participants had seen these commercials, and 57% of the participants also ignored them.

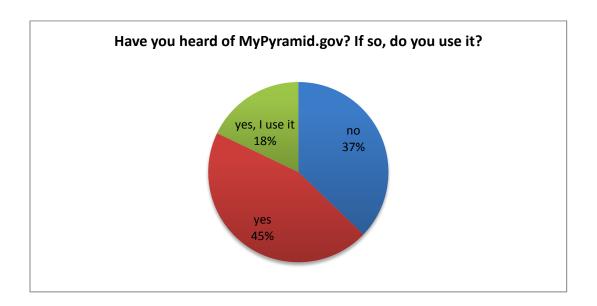


Figure 76 - MyPyramid.gov

Finally, the MyPyramid.gov website is a US Government website containing all the nutritional information, food guides and data that is needed for someone to research and make

healthy food choices. It was found, as illustrated by Figure 76, that 37% of the participants had never heard of this website, and only 18% of the participants used it.

## **6.4 Summary**

Chapter 6 reviews the results obtained from the different surveys. It was found that the most popular commercial diets were Weight Watchers, Atkins, South Beach Diet and Jenny Craig. In the survey conducted in the Morgan Dining Hall at WPI it was found that only 24% of the students who saw the nutritional information of the food items were influenced by the information displayed. Initially, 68% of the students expressed that they would be influenced if nutritional information of the food items were displayed.

In the survey conducted in the local supermarket it was found that 14% of the participants always checked the nutritional labels of all the food items they purchased, and 40% never check the nutritional labels of any food item they buy. It was found that with \$37, a person is able to purchase more food if they purchased a variety of processed foods in the supermarket. However, a person purchasing a variety of healthy, fresh food will not be able to purchase as much for the same amount.

Finally, in the healthy eating campaign survey it was found that only 18% of the population utilized the tools in myPyramid.gov, and that healthy eating campaigns such as the Incredible Edible Egg are not practical in influencing the community towards a healthier lifestyle.

## 7.0 Overview of Popular Commercial Diets

One way Americans try to fight obesity is through the use of commercial diets. From the survey discussed in section 6.1, the most popular commercial diets were the Atkins Diet, The South Beach Diet, Jenny Craig, and Weight Watchers. This section discusses and analyzes these diets and their effectiveness.

#### 7.1 Atkins Diet

The Atkins diet has been around for decades and has contributed to the weight loss of thousands of people. Dr. Atkins developed this diet program in the early 1970s and it continues to be popular amongst many Americans. On average, approximately 12% of Americans are on a low-carbohydrate diet, and more than half the population has at least tried the Atkins diet.<sup>71</sup>

### 7.1.1 Basic Principle

The Atkins diet is a program limiting carbohydrate intake in order to lose weight quickly. By limiting carbohydrates, the body's glucose income is depleted and it must use fat cells in the body as an energy source.

#### 7.1.2 Scientific Justification

The Atkins diet is a ketogenic diet which relies on the reduction of insulin levels. As glucose or sugar levels in the blood rise, insulin is released in response. When sugar is absent from the blood stream, hormonal changes within the body cause stored fat cells to be used as energy. When blood glucose decreases below a certain level (<3.58mmol/L), the growth hormones epinephrine and glucagon are released to maintain energy metabolism. Within the adipocyte (fat cell), the two hormones that are released as a result of the decrease in glucose are then responsible for the breakdown of triacylglycerol to fatty acids. The oxidation of free fatty acids gives rise to acetyl-CoA, which can enter the Krebs cycle directly. However, in the liver, excess acetyl-CoA derived from fatty acid oxidation is converted to the following ketone bodies:

lyacetoacetate, gamma-hydroxybutyrate, and acetone. This conversion occurs only in the liver, and the resultant ketone bodies are transported to peripheral tissues such muscle or the brain, where they are converted back to acetyl-CoA for entry into the Krebs cycle. Glucagon has a vital role in maintaining an adequate blood glucose level and provided there is adequate glycogen stored in the liver, can activate its reduction to glucose. This is then used as the body's fuel source for energy. However, this stabilization of blood glucose only functions in the presence of stored glycogen. Since the human body is unable to store more than a two-day supply of carbohydrate in the form of glycogen, restricting carbohydrate intake necessitates a conversion to fat as the primary fuel after glycogen has been depleted.<sup>72</sup>

#### 7.1.3 Diet Program

The diet consists of four phases. Phase 1, the induction phase, is the most restricting phase, as dieters must limit their carbohydrate intake to just 20 grams per day.<sup>73</sup> This is a large drop from the recommended FDA carbohydrate intake of 275 grams per day.<sup>74</sup> In the first phase, dieters are to eat fish, poultry, eggs, beef, leafy greens, and non-starchy vegetables like broccoli and zucchini.

Table 18 - Atkins Diet Program<sup>74</sup>

Phase	Duration	Carbohydrate Intake
1-Induction Phase	2 weeks	20 grams
2-Ongoing Weight loss Phase	Within 5-10 lbs of weight	Add 5 grams/week after
(OWL)	goal	Phase 1
		Add 10 grams/day until
	Until weight goal is	weight loss is steady but
3-Pre-Maintenance Phase	reached	not significant
		Find ACE (Atkins
	In order to maintain weight	Carbohydrate
4-Lifetime Maintenance	loss	Equilibrium)

Phase 2 is known as the Ongoing Weight Loss (OWL) phase. Table 18 shows the changes in carbohydrate intake from phase to phase. In phase 2 the amount of permitted carbohydrates is increased by 5 grams each week. This continues until the weight loss ceases. This usually occurs after the intake has increase to around 40-60 grams of carbohydrates per day. When this point is reached, the dieter should stay at that level until they are within 5 to 10 pounds of their goal weight.<sup>73</sup>

Phase 3 is the Pre-Maintenance phase. This phase begins when there is only 5-10 pounds of weight to lose. The dieter then adds another 10 grams of carbohydrates to their diet. In this phase, adding an additional 20 to 30 grams per day twice a week is encouraged in order to treat the dieter and help keep them on track.

Phase 4 is the Lifetime Maintenance portion of the diet. Not all carbohydrates are allowed, but eating a healthy amount of whole, unrefined grains and a variety of fruits and vegetables is recommended. As Table 18 indicates, the carbohydrate intake of the dieter is determined by the Atkins Carbohydrate Equilibrium (ACE). This is the number of carbohydrates in grams that the dieter consumes and does not lose or gain weight. <sup>73</sup>

Table 19 - Atkins Diet versus FDA Approved Diet 74

Nutrient	Atkins' induction	Atkins' ongoing	Atkins' maintenance	Food guide pyramid	RDAs, DRVs, DRIs*
Total energy (calories)	1152	1627	1990	1972	2000-2200
Total fat, g (% total kcal)	75 (59)	105 (58)	114 (52)	54 (24)	65 (30)
Saturated fat, g	29	49	44	17	20
Monounsaturated fat, g	31	36	41	19	20
Polyunsaturated fat, g	6	11	19	15	20
Cholesterol (mg)	753	1115	955	154	300
Total protein, g (% total kcal)	102 (35)	134 (33)	125 (25)	90 (18)	75 (15)
Total CHO, g (% total kcal)	13 (5)	35 (8.6)	95 (19)	292 (59)	55%-60%
Dietary fiber (g)	3	8	13	22	20-35
Vitamin E (mg)	3	7	10	40	15
Vitamin A (RE)	669	2183	2231	4140	700
Calcium (mg)	294	1701	889	1749	1000
Potassium (mg)	1734	2562	3339	4718	3500

Table 19 shows a detailed nutrient breakdown of each Atkins phase, as well as the nutrient recommendation of the FDA and the Food Guide Pyramid. There is a decrease in overall Calories for the induction stage of the Atkins diet, in comparison to the FDA recommendations, as well as a large decrease in carbohydrate consumption. Another drastic difference between the FDA's recommendation is the fat intake during the Atkins' maintenance phase and the fat intake under a normal diet.

#### 7.1.4 Advantages and Disadvantages

The Atkins diet has both advantages and disadvantages. Table 20 outlines the main advantage and disadvantages of the diet.

Table 20 - Atkins Advantages and Disadvantages<sup>75</sup>

Advantages	Disadvantages
Weight-Loss	High attrition rate
<ul> <li>Decrease in serum triglyceride</li> </ul>	<ul> <li>Acidic urine and Calcium Depletion</li> </ul>
levels	High Cholesterol
<ul> <li>Increase in serum HDL, reduction</li> </ul>	Kidney Stones
of LDL	Poor Vitamin Absorption
<ul> <li>Reduction of pediatric epileptic</li> </ul>	
seizures	

The Atkins diet, forces the body to burn fat stores as opposed to carbohydrates. The liver converts fat into fatty acids and ketone bodies. The ketone bodies now become the brain's source of energy. One of the negative effects is the state of ketosis that is caused a large build up of ketone bodies occurs in the body. The Ketosis has a detrimental effect on the human body. Incidents of dehydration, constipation, and kidney stones were reported in the children participating in a study conducted to see the effects of the Atkins diet. The ketone bodies create acidosis, which produces excess calcium in the urine. Urine is effective for dissolving free calcium in the body, but when there is a high acidity the urine is unable to properly dissolve these formations of calcium and thus kidney stones can form. As the calcium is being expelled, bones are weakened and over time osteoporosis may occur.

However, ketone bodies are helpful for controlling refractory epilepsy in children. A study conducted took 20 children between the ages of 3-18 with at least three seizures per week. They were prescribed to a 6-month period of a modified Atkins diet. Their daily intake of carbohydrates was reduced to 10 grams per day without reducing Calories or modifying the diet significantly. At the end of the 6-month period, 13 had more than 50% improvement in their seizure occurrence and 7 had greater than 90% improvement. Out of the 7 children, 4 were seizure free. Their weight did not change, but their cholesterol did rise from an average 192 to 221 mg/dl.

Other adverse side effects caused by this diet are hyperlipidemia (excessive amounts of fat in the body), optic neuropathy (damage to optic nerves), and alterations in cognitive function.<sup>77</sup> These are all serious complications that could result in long-term adherence to the Atkins diet.

Additionally, cholesterol increase is another possible complication with Atkins diet. To determine if the Atkins diet results in cholesterol increase, 24 individuals completed the 4 week induction phase of Atkins followed by a 4 week maintenance phase. The study concluded that most of the participants cholesterol increased by almost 20%.<sup>71</sup>

Another area that has been researched in order to conclude whether it is overall a safe diet or not, is its effect it has if any, on cognitive function. A study conducted compared low-carbohydrate diets to conventional low-fat, low-Calorie diets. The study lasted a year and there were more than 100 subjects. The results show that of the mood measures, the low-carbohydrate diet regressed in improvement over time as shown in Figure 77. There was no significant difference between the two diets in the first 8 weeks, but a considerable gap formed after the 8 week mark and low-fat diets remained low on mood disturbance score. This concludes that diets

improves overall mood but low-carbohydrate diets will not keep at such a desired level over time.<sup>71</sup>

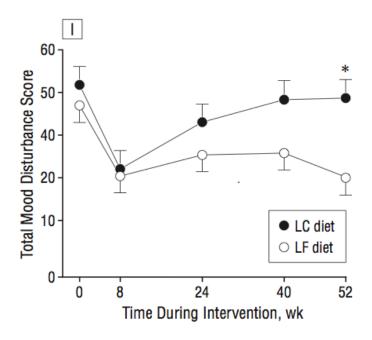


Figure 77 - Mood over Time<sup>75</sup>

An advantage of the Atkins diet is the effect it has for people with type 2 diabetes. The diet eradicates glucose and all other sugars that affect the insulin level of one with diabetes. This is due to the body using the fat storage of the body for fuel as described before and therefore decreasing the fat that stores in unwanted parts of the body.<sup>77</sup>

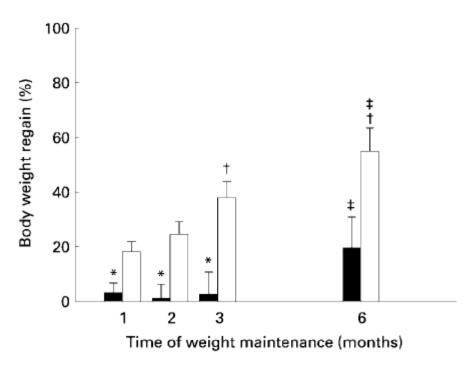


Figure 78 - The Weight Regain During Weight Maintenance for the Protein Diet (black) and the Control (white)<sup>78</sup>

Another drawback of the Atkins Diet is weight regain. As seen in Figure 78, weight maintenance for the studies conducted, showed some body weight percentage gain but not as significant in the first 3 months compared to the 6 month mark.<sup>78</sup> This shows almost a 20% weight gain and according to the trend, will still rise.<sup>78</sup> Although the non-dieting control group is significantly higher than the high-protein diet, the increase in weight may reach those levels of the control group over time.

#### 7.1.5 Response to the Diet

Despite the studies that show the Atkins diet can result in weight loss and reduce cholesterol levels, the general public is still unconvinced. A wide range of people from Atkins diet participants to professional nutritionists, find the general consensus on the diet program to be that it is neither healthy nor effective for long term adherence.<sup>79</sup> The American Dietetic Association has even criticized the low-carbohydrate diets, saying they are a "nightmare."<sup>79</sup> There have also been modifications to the diet as well. These modifications were a response to the

amount of saturated fat those on the diet were consuming. An article in the Times published in 2004, states that the officials of the diet company have put a limit on the amount of saturated fat intake. The program, in the induction stage, says 60% of the Calories should be from fat and of that percentage, a third should come from saturated fats. The Atkins diet never focused on high saturated fat but those on the diet were more inclined to consume those foods due to the restrictions of the other main food groups like fruits and grains. The diet, however, still permits more saturated fat than other commercial diets like the South Beach diet. Round in the saturated fat than other commercial diets like the South Beach diet.

#### 7.2 The South Beach Diet

The South Beach Diet was created by Dr. Agatston in 1995, in order to help cardiology patients improve their health.<sup>81</sup>

#### 7.2.1 Basic Principle

The South Beach diet is a moderate carbohydrate diet, in which the dieter has to eat carbohydrates with a low glycemic index, the right kinds of fats, and lean proteins in order to lose weight. 82

#### 7.2.2 Scientific Justification

Carbohydrates are digested and broken down into sugars, which circulate in the bloodstream. As sugar levels in the blood rise, so does insulin. Peaks of insulin push the body to store excess sugar as fat. The South Beach diet works because when carbohydrate intake is limited, sugar surges are cut out and the body stores less fat but keeps using existing fat as an energy source. The theory goes a step further, claiming that high insulin levels produce hunger, thus helps to present a person from overeating or craving and can help with weight management. It has also been suggested that carbohydrate restriction causes the body to mobilize its fat storage which can lead to weight loss. Additionally, if a dieter controls their fat

intake and increases their protein intake, they will increase satiety, which may lead to a decrease in energy intake.

#### 7.2.3 Diet Program

The South Beach Diet consists of three phases. The first phase of the diet lasts for two weeks, during which dieter cannot consume any carbohydrates. Dieters can consume vegetables, low-fat protein, and low-fat dairy. The restricted and allowed foods for this phase are listed in Table 21. This phase is the strictest and most difficult phase of the diet. However, in these two weeks the dieter can expect to lose between eight to thirteen pounds. <sup>81</sup>

Table 21 - List of Restricted and Allowed Foods during Phase One of the South Beach Diet<sup>81</sup>

Restricted Foods and Drinks	Allowed Foods and Drink		
Candy, Cake, Cookies, Ice Cream, Sugar,	Lean Beef, Chicken, Turkey, Fish,		
Bread, Rice, Potatoes, Pasta, Fruit, Fruit	Shellfish, Large amounts of Vegetables		
Juice, Beer or any other alcoholic	and Eggs, Low-fat Cheese and Yogurt,		
beverage.	Nuts, Olive, Canola, and Peanut Oils,		
	Coffee and Tea		

The second phase of the diet lasts until the dieter reaches their weight loss goal. During this phase dieters should expect to lose one to two pounds a week. In this phase dieters can start adding certain carbohydrates back into their diet. Dieters are instructed to slowly add in good carbohydrates. Dieters are also instructed to make sure that they are still losing weight when they start adding the carbohydrates back into their diet. These good carbohydrates include whole grain rice, pasta and breads; high fiber cereal. Dieters can also add back fruits with a low glycemic index such as berries and cantaloupe. However, these fruits should not be consumed early in the morning. Dieter may also consume small amounts of dark chocolate. Eating plenty of fiber is also highly recommended to stop sugars from being absorbed. Dieters should avoid carbohydrates that consist of white flour, white sugar, or carbohydrates that are highly processed.<sup>81</sup>

The third and final phase of the diet lasts for life. In this phase the dieter will not lose any more weight but only maintain their weight. In this phase the dieter can add back foods in normal portions, while trying to stay away from the bad carbohydrates that have a high glycemic index. The diet also suggests that if dieters find that they are gaining weight to start at phase one again until they are satisfied with their weight.<sup>81</sup>

Exercise is not imperative in the South Beach Diet. The dieter can expect to lose the weight without exercising. However, the diet explains that adding exercise will speed up the weight loss and help improve the body's health and composition. <sup>81</sup>

#### 7.2.4. Advantages and Disadvantages

The South Beach diet has both advantaged and disadvantages which are listed in Table 22.

Table 22 - South Beach Diet Advantages and Disadvantages

Advantages	Disadvantages
<ul> <li>Less Cravings</li> </ul>	<ul> <li>Difficult to</li> </ul>
<ul> <li>Improvement in insulin and cholesterol</li> </ul>	follow
levels	<ul> <li>Vitamin</li> </ul>
	Deficiency
	<ul> <li>Ketosis</li> </ul>

By the end of phase one, dieters should have more results then just the weight loss. The dieter should no longer crave sugary snacks and other carbohydrates. The diet also claims that it will improve the body's ability to process sugars and starches. The dieter's blood sugar, insulin and cholesterols levels should also improve.<sup>81</sup>

Dieters can expect to see benefits from the second phase. Weight loss will be the many benefit of this phase. Another benefit is that the dieter's cholesterol should improve by increasing the good HDL cholesterol and lowering the bad LDL and triglycerides as well as by increasing the size of the LDL particles. The dieter's body should also be able to process the carbohydrates

properly because the dieter is providing their bodies with the right form and amount of carbohydrates.<sup>81</sup>

High cholesterol is common in overweight and obese people.<sup>86</sup> According to a study conducted for the American Heart Association, the South beach diet lowers total cholesterol and LDL cholesterol.<sup>86</sup> Therefore many patients can benefit from the South Beach Diet in their weight loss and cholesterol management.

The South Beach Diet also has some drawbacks. Participants of this diet find it difficult to follow the diet for longer periods of time, as cravings and binging often sabotage their progress. This often leads to gaining back weight that has been lost, unless the dieter returns to the diet immediately.<sup>81</sup>

Another drawback to the South Beach Diet, like other low-carbohydrate diets, is the deficiency in vitamins A,  $B_6$ , C, and E, as well as thiamine, folate, calcium, magnesium, iron, and potassium. Phase one of the program can also cause ketosis, which is explained in the Atkins Diet section 7.1.4.<sup>87</sup>

#### 7.2.6 How the diet has changed over the years

There have not been any significant changes to the South Beach Diet since it has been introduced. However, the newer version of the program introduces an exercise plan. The exercise plan is not mandatory but "supercharges" the diet and weight loss.<sup>88</sup>

## 7.3 Jenny Craig

The Jenny Craig diet was founded by Sidney and Genevieve Craig in 1983 in Australia and expanded to the United States in 1985. 89

#### 7.3.1 Basic Principle

The Jenny Craig diet method consists of a three-level-food-mind-body plan that helps people lose weight and also keep it off at the same time. The diet is based on a moderated, balanced diet and exercise.<sup>89</sup>

#### 7.3.2 Scientific Justification

The scientific justification behind the Jenny Craig program is weight loss due to caloric restriction. When caloric intake is decreased and exercise is increased, weight loss is achieved because there is a negative energy balance. This is typically obtained by eating 500 kcal per day less than what is required to maintain current body weight.<sup>90</sup>

## 7.3.3 Diet Program

The first level of the program teaches the dieter to eat the foods they want in smaller, frequent portions. Dieters are taught how to eat rational portions, how to plan and prepare healthy menus, and how to control their urge when eating unhealthy food or what to choose to eat when ordering at restaurants. The second level consists of teaching the dieter how to increase their energy by the use of undemanding activity. Dieters are taught how develop ways to be more physical in their new lifestyles. The third level teaches the dieter how to build more nutritional balance into their diet, to help maintain a healthy diet and lose weight. Each dieter's menu is based on their weight, height and weight loss goals. The Jenny Craig program can either be done by going to one of the local Jenny Craig centers, or by telephone and mail. 91

On this program dieters eat the Jenny Craig prepackaged meals. These prepackaged meals contain 50% to 60% carbohydrate, 20% to 25% fat, and 20% to 25% protein (based off the USDA food pyramid and the 2005 federal guidelines). These packaged meals also have a specific amount of Calories which vary from person to person depending on their weight loss goal.<sup>91</sup>

#### 7.3.4 Advantages and Disadvantages

The Jenny Craig diet has both advantaged and disadvantages which are listed in Table 23.

Table 23 - Jenny Craig Diet Advantages and Disadvantages

Advantages	Disadvantages
<ul><li>Prepackaged Meals</li></ul>	• Cost
<ul><li>Consultation Program</li></ul>	

There are several advantages to the Jenny Craig diet. One advantage is that the meals are prepackaged and the dieter does not have to think about what food they should prepare and eat. The prepackaged meals are also supposed to help the dieters to learn correct portion sizes. Another advantage to the Jenny Craig Diet is their consultation program. Every week the dieter meets with or calls their counselor to discuss their diet for the week, and the clients weight loss goals. The counselor helps keep the dieter on track and is there to motivate them during their weight loss process.

There are several drawbacks to the Jenny Craig diet. The major drawback of this diet is the cost. The program costs approximately \$199 for a six month membership and between \$70 and \$105 per week. This diet can cost a participant anywhere from \$2019 and \$2929 for six months. <sup>92</sup> As discussed in chapter 6, the average American spends about \$37 a week on food, so for most Americans the Jenny Craig Diet is expensive.

# 7.4 Weight Watchers

The Weight Watchers program is based on four basic principles: eating smarter, moving more, getting support, and developing better habits.<sup>93</sup>

#### 7.4.1 Basic Principles

During a Weight Watchers diet, the dieters follow a Calorie controlled eating plan that fits their lifestyle. They learn how to control their hunger, as well as choose food that help keep them fuller for longer periods of time. The Weight Watchers program focuses on a healthy lifestyle change and is planned to be used as a long-term commitment for weight management.<sup>94</sup>

#### 7.4.2 Scientific Justification

The Weight Watchers program is based on recommended restrictions of portion sizes, Calories and long-standing medical advice<sup>2</sup>. With fewer Calories being taken in because of the smaller portion sizes, there will be less fat getting stored in the body. Usually to lose half a kilogram a week, a consumption of 500 fewer Calories will be needed. To help with this weight lose, points are given to food items of certain portion sizes. The points system helps determine how much food can be consumed with in one day and still help lose weight daily.<sup>95</sup>

#### 7.4.3 Diet Program

While on a Weight Watchers diet, dieters keep total daily points in the range that is determined by their current weight. Points are given to each food item that a member eats. The Weight Watchers Corporation has already determined the point value for most common foods. Each point is about 50 Calories, and most members have about 24 to 32 points daily. Equation 2 is used to determine the point value of a food item.

$$p = \frac{c}{50} + \frac{f}{12} - \frac{\min\{r, 4\}}{6} \tag{2}$$

Where p=points, c=Calories, f= Fats (in grams), r = Diet fiber (in grams) 96

Most members of weight watchers will not know the equation to determine how many points each food item is worth. Instead of using the equations members will use a points calculator that will help save them time for this low-carbohydrate low-Calorie Diet.



Figure 79 - Weight Watchers Point Calculator 97

Figure 79 shows what the online points calculator that a dieters of Weight Watchers use. Before eating a food item, one will find the Calories, fiber, and total fat of the food item. Then entering in these values, the calculator automatically uses Equation 2 and calculates how many points the food item is worth.

Over the years, Weight Watchers has changed their diet program to accommodate new information received. In August 2004 the Turnaround Program was introduced, which included parts from other plans done in past years through Weight Watchers. The purpose of the Turnaround Program was to help people with developing a healthy lifestyle to live by and to follow a few healthy guidelines. In the Momentum plan the dieter is given a list of foods that are nutrient-rich and filling. Even though the dieter is given the list, they are still allowed to make the actual choice with what they eat based on their personal preference and total amount of points. The dieter will follow a Calorie controlled eating plan. Each food is assigned a certain amount of points based on its Calorie, fat, and fiber content. This way the dieter is allowed to eat any type of food and no food is restricted. Every individual member has a target Daily Points Range, which is calculated, based on their body weight and activity level.

Members are encouraged to spend more time being active, and are given extra points for eating if they are active in fitness or any physical activity. Physical activities are each assigned a point value based off of the intensity of the exercise and the individual's weight. While they are not forced to do these activities, they are encouraged to do about 90 minutes of exercise a day or at least a minimum of 2 daily activity points worth of exercising. The points system tries to make the dieter learn how to get more value out of what they eat by making a healthier food choice. The goal in Weight Watchers is to reduce body fat by 5% to 10% and to ultimately have a body mass index of less than 25. With a dieter that has more weight to lose, the increments go up by 10% to help keep the dieter more motivated to lose the weight. <sup>93</sup>

#### 7.4.4 Advantages and Disadvantages

The Weight Watchers diet has both advantaged and disadvantages which are listed in Table 24.

Table 24 – Weight Watchers Advantages and Disadvantages

Advantages	Disadvantages		
<ul> <li>No restrictions on types of food eaten</li> <li>Feedback and support given with meetings and telephone support</li> <li>Some restaurants have Weight</li> </ul>	<ul> <li>Calculating points for every food item</li> <li>Costs money to use program</li> </ul>		
Watcher meals on their menus			

There is no limit to the type of food that can be consumed on Weight Watchers Diet. The points system, even though it can be a hassle to calculate points for every food item, allows the dieter to eat any type of food they choose as long as they have enough points for the food. Even though the program costs about \$37 a month, there is telephone support and meetings that can be gone to once a week. 99 Restaurants are even starting to adapt to Weight Watchers, by putting Weight Watcher meals on their menus.

Controlling portion size, making wise food choices, and being physically active during weight-loss are more likely to be done in an environment of support. Getting support during weight-loss can help relieve some stress that can help lose weight. A study was done with two groups of women who followed a weight-loss diet, one group was in the program with support and the other was not. It was found that the ones who did not receive the support had higher levels of cortical, a hormone that the body makes more of during times of stress. The group had a decrease in the ability to perform tasks and pay attention. The group without support had none of these problems.<sup>99</sup>

Spouses have a connection between each other with body weight due to couples eating the same meals and sharing a common food environment. Studies have found that it was beneficial when husbands or wives were involved in their partner's weight-control efforts. Research has helped determine that by the support of friends, women participated more in physical activities. Men's participation increased with support of friends and family, and women's participation in sport-related activities increased with family support. To help maintain weight loss, it has been determined by research that programs that provide internet motivation or in-person weight-loss support help out a lot.<sup>100</sup>

# 7.5 Comparison of Diets

Table 25 - Comparison of Diets $^{101}$ 

Diet	Type of Diet	Average Total Caloric Intake (Calories)	Carbohydrate per day (grams)	Protein per day (grams)	Fat per day (grams)	Advantages	Disadvantages
Typical American Diet	Varies	2200	275	82.5	85		Varies - Obesity - Under eating
Atkins Introductory Phase	Low- Carbohydrate	1152 1627	13 35	102	75 105	<ul><li>Lose weight fast</li><li>Health benefits</li></ul>	- Ketosis - High Cholesterol
Ongoing Phase Maintenance Phase		1990	95	125	114	belients	- Kidney Stones - Poor Vitamin Absorption
South Beach Phase one	Moderate- Carbohydrate	1500	76	130	71	- Less Cravings - Improvement	- Difficult to follow - Vitamin
Phase two Phase Three		1600 1800	118 150	140 140	77 80	in insulin and cholesterol levels	Deficiency - Ketosis
Jenny Craig	Low- Fat, Low- Calories	1450	218	54	49	- Meals are pre-made - Consultation Program	- Cost
Weight Watchers	Low- fat, Low- Calories	1462	207	73	42	<ul> <li>No restricted foods</li> <li>Support</li> <li>Restaurants include points on menus</li> </ul>	- Calculating points - Cost

Listed in Table 25 are the four diets discussed in this chapter along with the Typical American Diet. As seen early in this chapter the Atkins diet and the South Beach Diet are both carbohydrate restrictive, Weight Watchers is a low-fat and low-Calories diet, and Jenny Craig is also a low-fat low- Calories with pre-made packaged meals. The Typical American Diet varies from person to person depending on their lifestyle choices. Each of these diets has advantages and disadvantages to the diet as listed in Table 25, and discussed previously in this chapter.

People consuming the Typical American Diet usually consume about 2,200 Calories, 275 grams of carbohydrates, 82.5 grams of protein, and about 85 grams of fat daily. This diet out of all the diets listed in Table 25 has the highest amounts of Calories and carbohydrates consumed daily because the dieter does not have any restrictions. In each of the three phases of the Atkins Diet and South Beach Diet, there are different amounts of nutritional needs consumed. After each phase, the amount of Calories, carbohydrates, protein, and fat consumed each day is increased as the phase increases. In the Atkins Diet the Calories went from 1,152 in the introductory phase to about 1,990 Calories in the last, maintenance phase. Similarly, the South beach diet went from 1,500 to about 1,800 Calories. Weight Watchers had only one phase that had about 1,462 Calories. This shows that

In the Atkins Diet, the low-carbohydrate diet, the carbohydrates went from 13 grams to 35 grams to 95 grams in the last phase. Compared to the Typical American Diet which the daily average carbohydrates consumed is about 275 grams, Atkins Diet has lower carbohydrate intake as shown in Table 25. South Beach, being similar to the Atkins with low amount of carbohydrates being consumed, had an intake of about 76 grams of carbohydrates in the first phase, 118 grams the second phase, and 150 grams of carbohydrates the third and last phase. Weight Watchers on average had about 207 grams of carbohydrates, which is not as low as the Atkins diet and South Beach diet carbohydrates. The amount of fat consumed on Weight Watchers being 42 grams is low compared to the Typical American Diet being about 85 grams of fat, and South Beach and Atkins being higher in fat than the Typical American diet. Weight Watchers program also deals with a low amount of Calories being consumed, about 1,462 Calories, compared to the Typical American Diet with 2,200 Calories.

#### 7.5.1 Low-Fat, Low-Calorie and Low-Carbohydrate

Table 25 in section 7.4 shows a comparison of the diets discussed in chapter 7. From this table one can see that the diets discussed fall into two major groups, low-carbohydrate and low-

Calorie, low-fat. With most commercial diets falling into these two categories, several studies have been conducted comparing the effectiveness of low-carbohydrate diets and low-fat/ low-Calorie diets.

Table 26 - Effect of Low-Carbohydrate Intake on Body Weight in Obese Subjects<sup>99</sup>

Study	n	Duration	CHO <sup>a</sup> (g/day)	kcal/day	Weight change (kg)
Kekwick and Pawan	14	5-9 days	10	1,000	N/A
Rickman, et al	12	1 wk	7	1,325	-3.1
Benoit, et al	7	10 days	10	1,000	-6,6
Yudkin and Carey	6	2 wk	43	1,383	$\sim -2.8$
Fletcher, et al	6	2 wk	36	800	$\sim -3.125$
Lewis, et al	10	2 wk	27	1,115	-5.2
Kasper, et al	16	16 days	56	1,707	-4,8
Bortz, et al	9	3 wk	0	800	N/A
Worthington and Taylor	20	3 wk	17	1,182	$-12.0 \pm 3.7$
Rabast, et al	13	25 days	48	1,871	$-8.76 \pm 0.74$
Wing, et al	11	4 wk	10	800	-8.1
Krehl, et al	2	30 days	12	1,200	N/A
Rabast, et al	25	30 days	25	1,000	$-11.77 \pm 0.77$
Evans, et al	8	6 wk	80	1,490	-3.2 to $-5.0$
Golay, et al	22	6 wk	37.5	1,000	-8.0
Young, et al	3	6 wk	30	1,800	-16.18
Alford, et al	11	10 wk	75	1,200	$-6.4 \pm 7.59$
Larosa, et al	24	12 wk	6	1,461	$-6.8 \pm 0.91$
Golay, et al	31	12 wk	75	1,200	$-10.2 \pm 0.7$
Baron, et al	66	3 months	50	1,000	-5.0
Cedarquist, et al	7	16 wk	85	1,500	-8.8 to $-16.8$
Yancy, et al	43	16-24 wk	22	1,427	$-9.7 \pm 3.4$

Table 26 created by Kennedy et al, summarizes key points from 20 published studies on the effects of low-carbohydrate diets. The studies, as seen in the table, have small sample size and short duration. However, from the data provided it can be concluded that subjects consuming low-carbohydrate diet lost between 2.8 and 12.0 kg during the studies.<sup>99</sup>

Table 27 - Relationship Between Dietary Fat Intake (20% To 30% Kcal) and Weight Change in Overweight Subjects  $^{99}$ 

Author	N	Duration	Fat g (%)	Energy end	Weight change
		(weeks)		(kcal)	(kg)
Appel, et al	151	8	N/A (26)	N/A	-0.4
Buzzard, et al	17	13	35 (23)	1,365	-2.8
Carmichael, et al	39	0-17	40 (22)	1,608	-3.0
		17-26	46 (25)	1,658	-2.6
Golay, et al	21	6	30 (26)	1,027	-7.0
Golay, et al	37	12	34 (26)	1,178	-9.0
Hammer, et al	4	16	37 (23)	1,450	-5.8
Harvey-Berino	29	24	45 (27)	1,477	-11.8
	28	24	38(21)	1,650	-5.2
Jeffery, et al	39	26	36 (23)	1,363	-4.6
		52	40 (26)	1,346	-2.1
		78	40 (26)	1,300	0.4
Knopp, et al	57	52	63 (28)	2,019	-2
	55	52	58 (26)	1,995	-2
	62	52	52 (25)	1,917	-6
Pascale, et al	15	16	30 (22)	1,201	-7.7
	16	16	31 (22)	1,246	-7.5
Powell, et al	8	12	26 (20)	1,163	-5.0
	9	12	37 (28)	1,190	-4.6
Prewitt, et al	6	1-4	70 (37)	2,047	-1.5
		5-20	58(21)	2,428	-0.6
Puska, et al	35	6	51 (23)	2,001	-0.7
Rumpler, et al	4	4	34 (20)	1,542	-5.0
Shah, et al	47	26	37(21)	1,580	-4,4
Siggaard, et al	32	12	55 (28)	1,792	-5.2
Skov, et al	23	0-13	80 (29)	2,533	-5
		13-26	86 (29)	2,676	-5
Swinburn, et al	49	52	52 (26)	2,195	-3.1

Table 27 also created by Kennedy et al, summarizes key points from 16 published studies on the effects of moderate-fat/ high-carbohydrate diets. The studies, as seen in the table, indicate that a diet moderate in fat and high in carbohydrates is related to weight loss. <sup>99</sup> From these two tables it is concluded that both low-carbohydrate diets and moderate-fat/high-carbohydrate diets result in weight loss.

In a 24 week study, conducted by Yancy et al, comparing low-carbohydrate diets to low-fat/ low-Calorie diets, researchers found that the low-carbohydrate diet led to greater weight loss. <sup>100</sup> Figure 80 shows the average weight loss of the 24 week period for both the low-fat/ low-

Calorie diet and the low-carbohydrate diet. From this figure one can conclude that the low-carbohydrate group lost more weight over the 24 week period then the low-fat/low-Calorie group did.

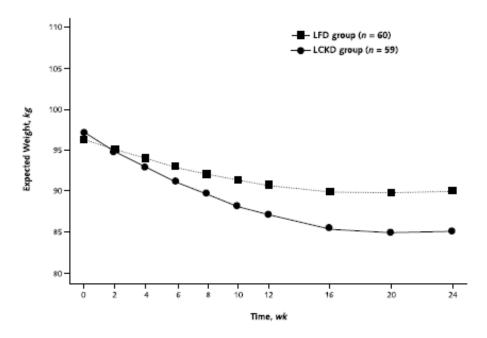


Figure 80 - Mean Body Weight Over Time. LCKD=Low-Carbohydrate, Ketogenic Diet; LFD = Low-Fat, Low-Cholesterol, Reduced-Calorie Diet $^{100}$ 

Similarly to the results of the Yancy et al study, a study conducted by the Foster et al, researchers found that the low-carbohydrate diet provided greater weight loss in the first 6 months then the conventional low-fat / low-Calorie diet. However the study by Foster et al found that the difference in weight loss between the two diets was not substantial over one year. Figure 81 show the results of the study conducted by Foster et al. The graph illustrates that in the first six months the low-carbohydrate diet resulted in more weight loss. It also shows that over the longer one year period the diets results in about the same weight loss.

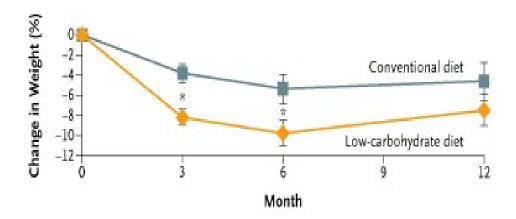


Figure 81 - Weight Loss in Percent of the Low-Carbohydrate Diet Versus the Conventional (Low-Fat/ Low-Calorie Diet) Over One Year 102

From these studies it can be concluded that low-carbohydrate diets lead to quicker short term weight loss than the low-fat, low-Calorie diets, but in the longer term of one year the weight loss is almost the same. <sup>90,103</sup>Although these studies show that these diets can work for weight loss, little research is available to show whether weight loss is maintained past one year. <sup>104</sup>

# 8.0 Other Weight Loss Options

This chapter highlights other weight loss options that people turn to besides commercial diets. These other weight loss options include weight loss pills, hypnosis, surgeries, and exercise.

## 8.1 Weight Loss Pills

Diet pills are used as a type of weight loss option. Diet pills can be obtained over-the-counter or as prescription from a doctor to lose weight.<sup>105</sup> Diet pills are controversial and there have been studies to see whether or not they work.

Table 28 -Reasons for Obese Patients to Seek Dietary Supplements 105

Social stigma of obesity

Health benefits of weight loss

Desire for a "magic bullet" for weight loss

Less demanding than accepted lifestyle changes, such as exercise and diet

Frustration with previous attempts at dieting and/or exercise

Easily available without a prescription

More easily accessed than a professional consultation with a physician, nurse, or nutritionist Inflated advertising claims

Appeal of a "natural" remedy

Perception that natural equals safe

There are many reasons that people choose to seek dietary supplements for weight loss. Many obese patients are frustrated with previous attempts at dieting and use pills to see if it can help them with their weight loss. Other reasons, such as the health benefits of weight loss and the desire of a "magic bullet" for weight loss appeal to obese patients as Table 28 indicates. The supplements listed appeal to the consumer as a magic pill that involves less work compared to special diets or physical activity. Weight loss dietary pills are sometimes seen as an easy way out of being overweight or obese <sup>105</sup>.

Table 29 -Common Dietary Supplements Used to Lose Weight<sup>104</sup>

Increase energy	Increase satiety	Block dietary fat absorption
expenditure	Guar gum (10)	Chitosan (16)
Ephedra (56)	Glucomannan (7)	Increase water elimination
Bitter orange (49)	Psyllium (6)	Dandelion (15)
Guarana (34)	Increase fat oxidation or reduce	Cascara (5)
Caffeine (27)	fat synthesis	Enhance mood
Country mallow (13)	L-carnitine (49)	St. John's wort (19)
Yerba maté (9)	Hydroxycitric acid (43)	Miscellaneous or unspecified
Modulate carbohydrate	Green tea (42)	Laminaria (18)
metabolism	Vitamin B₅ (18)	Spirulina [also known as
Chromium (117)	Licorice (17)	blue-green algae] (13)
Ginseng (20)	Conjugated linoleic acid (7)	Guggul (10)
	Pyruvate (6)	Apple cider vinegar (7)

<sup>\*—</sup>The Natural Medicines Comprehensive Database was searched for individual dietary supplements used or studied for weight loss. For each supplement identified, the number of commercial weight-loss products listed in the database which contained the supplement was determined. Commercial products in the database were deemed for weight loss if they contained any of the following words or syllables in their name: diet, thin, trim, fat, lean, weight, slim. Individual supplements found in at least five commercial products are listed. The number of commercial products containing the supplement is listed in parentheses.

Table 29 lists common dietary pills and supplements that are used by people to lose weight. Stores are still allowed to sell pills that have not been approved by the FDA, but if the pill has been tested and is too dangerous then the FDA has the right to take the diet pills off the shelf from ever being sold.

#### 8.1.1 Over-The-Counter Weight-Loss Pills

In 2001 there was an estimated retail sale of \$1.3 million in weight-loss supplements. In a survey done in 1998 it was determined that about 7% of adults used over-the-counter weight-loss supplements. It is estimated that 28% of adults using diet pill are young obese women. 105

Phenylpropanolamine is the main ingredient in the over-the-counter pills *Decatrim* and *Acutrim*, which help reduce appetite. Phenylpropanolamine was assumed to be a safe short-term weight lose pill, but then found to give people with adverse cerebrovascular, cardiac events, and an increased risk of stroke. After all of these negative effects were found, phenylpropanolamine was taken off the market in November 2000. <sup>106</sup>The over-the-counter product *Ephedra* was

<sup>†—</sup>Classification according to purported mechanism schema adapted from DeBusk RM. A critical review of the literature on weight loss supplements. Integrative Medicine Consult 2001;3:30–1.

brought up for review by the Food and Drug Administration (FDA) in 1997 because of safety concerns. This product has stimulant properties that help decrease weight when used with caffeine through thermogenesis and reduced appetite. The General Accounting Office did not have enough evidence to help support these restrictions, so it is still allowed on the market.<sup>106</sup>

#### 8.1.2 Prescription Weight-Loss Pills

There are several reasons a doctor would consider writing a prescription for diet pills:

- Body mass index (BMI) is greater than 27 and you have a medical complication of obesity, such as sleep apnea, high blood pressure or diabetes
- BMI is greater than 30
- Other methods of weight loss have not worked<sup>107</sup>

Weight-loss prescription drugs are intended for people who are unable to achieve or maintain a healthy weight through diet and exercise alone, and who often have some health problems as a result of these. Prescription drugs are not for people who want to just lose a few pounds for superficial reasons.<sup>107</sup>

Older weight-loss prescription drugs that were once approved by the Food and Drug Administration (FDA) were only approved to be used for short-term use, less than 12 weeks. The only two prescription weight-loss drugs that were FDA approved for long-term use are *Sibutramine* and *Orlistat*. *Orlistat* blocks the absorption and digestion of fat in the intestines and stomach, which can cause increased intestinal cramps, gas, oily spotting. *Sibutramine* affects the brain chemistry, making the patient feel fuller with less amount of food consumption. The side effects of *Sibutramine* may cause increased blood pressure and increased heart rate. In Table 30 the advantages and disadvantages of *Orlistat* and *Sibutramine* are summarized. <sup>107</sup>

Table 30 - Advantages and Disadvantages of Weight Loss Pills

Advantages	Disadvantages
<ul> <li>Orlistat         <ul> <li>Blocks the Absorption and Digestion of Fat</li> </ul> </li> <li>Sibutramine         <ul> <li>Makes Patients Feel</li> <li>Fuller</li> </ul> </li> </ul>	• Orlistat  O Intestinal Cramps O Gas O Oily spotting  Increased Blood Pressure Increased Heart Rate

#### **8.1.3** Effectiveness of Diet Pills

When using diet pills, a dieter can lose more weight if they also reduce their caloric intake and exercise. It has been shown that under these conditions dieters are able to lose between 5-10% of their total body weight within a year. By losing this percentage of total body weight there will be a decrease in blood pressure, blood glucose levels, insulin levels, and blood triglyceride levels. Using dietary pills improve the chances of losing weight and taking these pills do not replace the need for changes in activity level or eating habits. It has been said that using diet pills can help lose the weight, but along with that comes negative side effects, suppress appetite, and temporary weight-loss. Once the drug is no longer taken, the weight that was once lost will return. 107

A Behavioral Risk Surveillance System survey was done in 1998 in Michigan, Iowa, Florida, West Virginia, and Wisconsin. They selected adults at the age of 18 years or older to participate in this survey. The survey was conducted by state health departments and compiled into one data sheet. Each of the respondents was prompted with questions, at which they were to answer. The reason behind the survey was to compare the association between nonprescription weight loss products and demographic characteristics, current BMI, prescription weight loss pill use in the past 2 years, and lifestyle characteristics. <sup>106</sup> Table 31 shows the different associations between nonprescription weight loss products and all of the characteristics chosen for this study.

More than half of the respondents were women, with the majority being non-Hispanic white. People with at least a high school diploma are more likely to use nonprescription products than those with less education. It was found that the common users of nonprescription drugs are obese women of all ethnic groups 18 to 34 years of age.<sup>106</sup>

Table 31 – Comparison of Weight Loss due to Selected Characteristics  $^{106}$ 

Characteristic	Women, % (SE) (n = 8546)	Men, % (SE) (n = 6133)	Total, % (SE) $(n = 14679)$
Race/ethnicity	AL APPR 150	en landens	
Non-Hispanic white (n = 12 629)	81.1 (0.6)	82.1 (0.7)	81.6 (0.5)
Non-Hispanic black (n = 993)	8.6 (0.4)	7.5 (0.5)	8.1 (0.3)
Hispanic (n = 806)	8.4 (0.5)	7.7 (0.5)	8.0 (0.4)
Other (n = 251)	1.9 (0.2)	2.6 (0.3)	2.3 (0.2)
Age, y	MAN AT STANKE	200000000000000000000000000000000000000	**************************************
18-34 (n = 3699)	26.9 (0.7)	31.6 (0.8)	29.2 (0.5)
35-54 (n = 5780)	36.3 (0.7)	38.0 (0.8)	37.2 (0.5)
≥55 (n = 5200)	36.8 (0.7)	30.4 (0.8)	33.7 (0.5)
Education	1 5 7 7 12 12 1	24.702.702.702.70	F01-27-92-7-32-79-2-7
<high (n="1861)&lt;/td" school=""><td>5.8 (0.9)</td><td>12.9 (0.6)</td><td>12.7 (0.4)</td></high>	5.8 (0.9)	12.9 (0.6)	12.7 (0.4)
High school/GED (n = 5153)	10.4 (0.7)	31.8 (0.8)	34.2 (0.5)
Some college (n = 4103)	13.5 (0.9)	27.8 (0.7)	28.7 (0.5)
College or more (n = 3562)	11.0 (1.0)	27.5 (0.7)	24.4 (0.5)
Marital status†			
Married (n = 7859)	56.2 (0.7)	63.3 (0.8)	60.0 (0.5)
Not married (n = 6805)	43.8 (0.7)	36.7 (0.8)	40.3 (0.5)
Body mass index			
Normal weight (n = 6532)	52.3 (0.7)	36.0 (0.8)	44.3 (0.6)
Overweight (n = 5166)	27.9 (0.6)	44.8 (0.8)	36.1 (0.5)
Obese (n = 2981)	19.8 (0.6)	19.3 (0.6)	19.6 (0.4)
Current weight status	200 1200 200 200	5-334 (4940) (40	
Trying to lose (n = 5600)	45.4 (0.7)	29.4 (0.8)	37.6 (0.5)
Trying to maintain (n = 4884)	32.7 (0.7)	37.2 (0.8)	34.9 (0.5)
Neither (n = 4195)	45.4 (0.7)	33.5 (0.8)	27.6 (0.5)

<sup>\*</sup>Data are weighted for age, race, and sex using the 1990 state census data; GED indicates graduate equivalent degree. †Marital status data missing for 15 individuals.

Another similar study was done comparing the prevalence of prescription weight lose drugs by age, race or ethnicity, and sex by using a telephone survey in a sample of U.S. adults in 1996-1998. The state departments made phone calls to individuals of the age 18 years or older. In the study it was estimated that about 2.5% of U.S. adults used prescription weight loss pills <sup>108</sup>. Use of prescription weight loss pills increased with current body mass index as seen in Table 31.

 $Table\ 32-Two\ Year\ Prevalence\ of\ prescription\ weight\ loss\ pills\ among\ U.S.\ adults$ 

Characteristic Survey Respondents Non-Hispanic White Other Total (95% CI) Non-Hispanic Black Hispanic (n = 11384)(n = 112009)(n = 11311)(n = 5075)(n = 139779)%-0.9 Male 0.6 1.3 0.2 0.9 (0.7-1.1) Female 3.9 3.8 2.8 4.0 (3.8-4.2) 5.2 Total 2.4 2.4 3.2 1.4 2.5 (2.3-2.7) Age Male 0.4 0.5 0.5 18-24 y 0.0 0.4 (0.2-0.6) 25-34 y 0.7 0.7 1.3 0.1 0.8 (0.6-1.0) 35-44 y 1.2 0.3 0.9 0.1 1.1 (0.9-1.3) 1.2 0.3 45-54 v 1.4 0.3 1.1 (0.9-1.3) 1.4 2.1 0.3 55-64 y 1.1 1.2 (0.8-1.6) 0.4 1.4 2.9 0.6 0.7 (0.5-0.9) ≥65 y Female 3.0 3.2 3.8 0.6 3.0 (2.4-3.6) 18-24 y 5.9 6.1 6.6 25-34 y 2.8 5.9 (5.3-6.5) 5.8 (5.2-6.4) 35-44 y 5.8 5.2 6.4 5.0 45-54 y 5.2 4.1 7.1 4.1 5.3 (4.7-5.9) 55-64 y 2.8 1.7 2.0 1.0 2.6 (2.2-3.0) ≥65 y 1.2 0.6 0.7 0.6 1.1 (0.7-1.5) Current body mass index Male <25 kg/m<sup>2</sup> 0.1 0.3 0.5 0.1 0.2 (0.198-0.202) 25-29 kg/m<sup>2</sup> 0.4 0.1 1.3 0.5 0.5 (0.3-0.7) 30-34 kg/m<sup>2</sup> 2.1 1.3 1.9 0.2 2.0 (1.6-2.4) 35-39 kg/m<sup>2</sup> 6.2 4.1 5.0 0.5 5.6 (3.8-7.4) ≥40 kg/m<sup>2</sup> 11.0 4.3 1.5 0.0 9.1 (6.7-11.5) Female  $<25 \, kg/m^2$ 1.5 1.0 1.8 0.8 1.5 (1.3-1.7) 25-29 kg/m<sup>2</sup> 5.0 2.9 6.5 3.7 4.9 (4.5-5.3) 30-34 kg/m<sup>2</sup> 8.3 6.2 8.9 12.4 8.1 (7.1-9.1) 35-39 kg/m<sup>2</sup> 11.8 8.4 13.0 7.3 11.2 (9.6-12.8) ≥40 kg/m<sup>2</sup> 12.9 19.7 13.7 15.3 17.7 (15.2-20.2)

It has been said that combining weight loss agents will result in a greater loss of weight. Obese patients want to lose two to three more weight than is typically possible with current medications. A study was conducted in 2000 that researched the benefits of adding *Orlistat* to *Sibutramine* in obese women. These women had lost an average of  $11.6 \pm 9.2\%$  lbs of their initial weight during 1 year of treatment with *Sibutramine* alone. Figure 82 shows the change in body weight for patients either assigned to *Sibutramine* and *Orlistat* or *Sibutramine* and placebo

for a 16 week trial.<sup>109</sup> From Figure 82 one can see that for the first few weeks just the *Sibutramine* alone lost weight faster, but as the weeks increased the weight was lost faster with the combination of the *Sibutramine* and *Orlistat*.

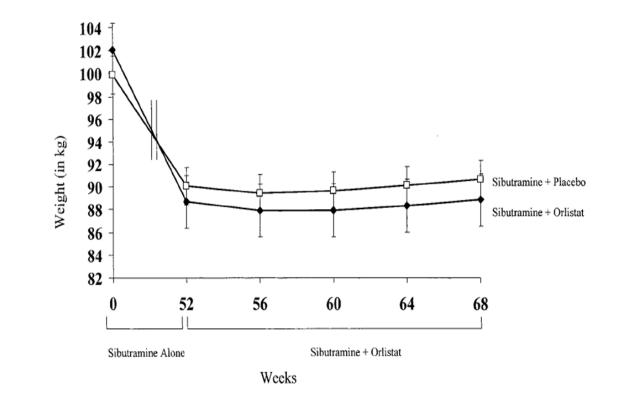


Figure 82 -Change in Body Weight During a 16-Week Trial with Different Combinations of Medications 109

It has been seen through studies over the past 10 years or so, that prescription or nonprescription weight loss products have different effects on people with different ethnicity/characteristics. From the studies it is seen that obese women use nonprescription pills more than most Americans, and they also lose weight more effectively with prescription weight loss products. Combining different weight loss pills may be more effective for individuals trying to lose weight at a faster rate than just one weight loss product at a time.

# 8.2 Hypnosis

When it comes to losing weight, it is not the actual weight loss that proves the most difficult, but maintaining the loss long-term. Aside from the typical methods aiding weight loss

like exercise, pills, and surgery, therapeutic treatments are surfacing and making their mark as successful alternative weight loss methods. Hypnosis among others is being viewed as an adjunct to the typical increase activity, decrease Calorie method. Although there have not been extensive and innumerable studies that have shown this to be an undeniable success, studies done have shown that this has been valuable.

Hypnotherapy is a 5 step process that progresses from inducing a deep-relaxing state to amnesia, or when the hypnotherapist will cause the subject to erase the memory of what was scripted in the session. This is done in order for the subject to be affected only on their subconscious level. The following list describes each state of the hypnotherapeutic weight loss session:

- Induction this causes the subject to enter a state of relaxation by setting a calm scene.
- Deepening creating the deepest state of relaxation, by continuing to set a calm scene.
- Script a script is read in order to change or alter the unwanted behavior. For weight loss
  it is necessary to empower the patient by eradicating disempowering foods, by using bad
  adjectives to describe bad foods and good adjectives for healthy foods.
- Amnesia created in order to erase it completely from conscious memory.
- Trans-termination coming out of the hypnotic 110

Those that seek hypnotherapy as a supplement to weight-loss justify it through the characteristics of the hypnotic state. In the hypnotic state, by nature, one has hyper-suggestibility, more vivid imagery, more primary process thinking, and more availability of childhood memories which can be used in order to diminish the problem from the root itself.<sup>111</sup> These characteristics are then utilized in order to influence the subject under the hypnotic state.<sup>111</sup>

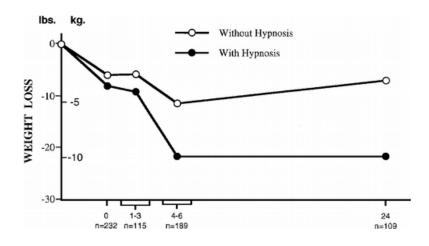


Figure 83 - Weight Loss as a Function of Assessment Interval and Inclusion of Hypnosis in  ${\bf Treatment^{112}}$ 

A study that was conducted with over 330 participants, divided the participants into two control groups. Participants underwent a low-Calorie diet either with or without hypnosis. In Figure 83, it can be seen that supplementing hypnotherapy into a weight loss plan, helped with weight loss and weight loss maintenance.<sup>112</sup>

Table 33 - Summary of Means and Standard Deviations of Weight Variables<sup>113</sup>

		Initial	Initial weight		weight loss	Six-month v	veight loss
Group	n	М	SD	М	SD	М	SD
Hy-T	17	215.99	34,19	-6.53	1.05	-17.82	2.73
Нy	17	184.76	29.23	-8.00	0.97	-17.12	2.54
Cont	20	175.79	40.13	1.50	0.95	-0.50	2.45

Note. Hy-T = hypnosis treatment plus audiotapes; Hy = hypnosis treatment alone; Cont = control group.

Table 33 shows that the adjusted mean weight losses for both hypnosis treatments were greater than the control group of simply just adhering to the diet as best they could. The first column of the table shows the number of subjects for the study and M is the mean weight loss for each variable at specific time intervals. This clearly shows that the presence or addition of hypnotherapy in a weight-loss program improves the overall success rate.

Table 34 - Advantages and Disadvantages of Hypnosis for Weight Loss

Advantages	Disadvantages
<ul><li>More Weight     Loss</li><li>Therapeutic,     Relaxing</li></ul>	<ul><li>Ineffective For Those Unable to be Hypnotized</li><li>Costly</li></ul>

Table 34 shows the advantages and disadvantages of hypnotherapy for weight loss. As previously discussed people who are responsive to hypnosis are able to lose more weight with the therapy. However, if a dieter tries to lose weight using hypnosis and finds that they are not receptive to the therapy, money is wasted without seeing results.

The effectiveness of hypnosis as an adjunct to a typical low-Calorie diet is clearly positive in those individuals that prove to be both able to be hypnotized and have the positive attitude about being hypnotized. This method is being further researched in order to find conclusions to tell if this would be a viable option for the cure of obesity or if it is the answer for those people that feel as if they "cannot" lose weight. Hypnosis, although not as widespread as the other weight loss methods in this chapter, is proving to aid those in the attempt to lose weight and will expand its effect on overweight individuals with the spread of knowledge and education.

## 8.3 Surgery

Weight-loss surgeries change a patient's digestive system, often restricting the amount of food that the patient can eat. These surgeries require patients to change their lifestyles and eating habits. With a healthy diet and exercise weight-loss surgeries provide patients with long-term consistent weight loss. These surgeries are usually considered for people with a BMI of 40 or higher, or people with a BMI of 35 or higher with a serious weight related medical problem, such as diabetes or high blood pressure.<sup>114</sup> The main criteria for patients eligible for weight loss

surgeries can be found in Table 35. Some of the common weight-loss surgeries are gastric bypass, lap-band, and stomach stapling.

Table 35 - Criteria for Patient Selection for Surgical Treatment of Severe Obesity 114

- Weight
  - 100 pounds or 100% above desirable weight
  - BMI 40 kg/m2
  - BMI 35 kg/m2 with medical comorbidities
- Failure of Nonsurgical Attempts at Weight Loss
- Absence of Endocrine Disorders that can cause Massive Obesity
- Psychological Stability
  - Basic understanding of how obesity surgery causes weight loss
  - Realization that surgery itself does not guarantee weight loss
  - Absence of alcohol and drug abuse
  - Commitment to post-operation follow-up

# 8.3.1 Gastric Bypass Surgery **Before Surgery** After Surgery Stomach Stomach (bypassed) Pouch Jejunum Duodenum Jejunum Duodenum (bypassed) Small intestine

Figure 84 - Stomach Before and After Gastric Bypass Surgery 114

Figure 84 shows a stomach before and after gastric bypass surgery. During the surgery a small balloon is placed in the stomach, the surgeon then cuts and divides the stomach creating a new stomach referred to as a pouch, as seen in Figure 84. The small intestine is then divided and the duodenum section of the small intestine is bypassed and the jejunum is connected to the pouch with either staples or stitches.<sup>115</sup>

This weight loss surgery works for several different reasons. The pouch created is much smaller than the patient's original stomach so they cannot eat much. Another reason is that one of the parts bypassed in the surgery is the one that produces hormone ghrelin, which stimulates appetite, making patients want to eat less, and have less cravings.<sup>115</sup>

According to Brolin MD, a bariatric surgeon, the weight loss for gastric bypass is usually around 65% and 80% of excess weight between 12 and 18 months. After five years weight loss results are around 50 to 60 percent of excess weight, showing that weight loss is well maintained.<sup>116</sup>

Table 36 - Advantages and Disadvantages of Gastric Bypass

Advantages	Disadvantages
	<ul> <li>Intestinal Leakage</li> </ul>
<ul> <li>Weight Loss</li> </ul>	<ul> <li>Small Bowel Obstruction</li> </ul>
	<ul> <li>Incisional Hernias</li> </ul>
	<ul> <li>Protein Calorie Malnutrition</li> </ul>
	<ul> <li>Micronutrient deficiencies</li> </ul>

Although this surgery option has the advantage of significant weight loss, as is seen in Table 36 there are also some disadvantages. These disadvantages are the potential for complications such as intestinal leakage, small bowel obstruction, incisional hernias, protein Calorie malnutrition, and micronutrient deficiencies including iron calcium and vitamin B12.<sup>117</sup>

#### 8.3.2 The Gastric Band

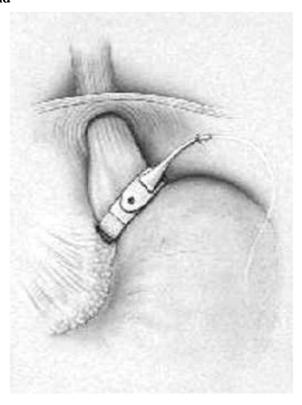


Figure 85 - Stomach with Gastric Band in Place 118

The gastric band more commonly know as the Lap-Band is another weight loss sugery option. This surgery is done laparoscopically, through several incisins in the abdomen. The band, made of silicone and Silastic, is sew in place around the upper stomach as seen in Figure 85. The band has "a ballon on the inner surface, which is connected to a tube, which leads to a small port (a small plastic connector about the size of a half-dollar) under the skin, on top of the muscle of the abdominal wall". Through this port the patients doctor can add or remove saline making the ballon tigher or looser.

Table 37 - Advantages and Disadvantages of Gastric Band Pass

Advantages	Disadvantages
	<ul> <li>Slipping of the band</li> </ul>
<ul> <li>Weight Loss</li> </ul>	<ul> <li>Internal Infections</li> </ul>
	<ul> <li>Stomach pains after eating</li> </ul>
	Port rotation

The gastric band works by stretching of the stomach above the band. This sends a message to the patients brain saying that their stomach is full, and makes the patient eat much smaller portions. Some complications of gastric banding, as illustrated in Table 37, are slipping of the band, internal infections, and stomach pains after eating. Port rotation is another complication, when a patient loses weight the port can rotate making it difficult for doctors to adjust the balloon. 119

According to the study conducted by Belachew, Belva, and Desaive, there was significant weight lost with the gastric band. This study included has 168 males and 595 females. The mean age was 34 years and the mean initial BMI was 42 kg/m2. The mean excess weight loss was 30% at 6 months, 40% at 12 months, and 50% at 24 months and 50-60% at 48 months and beyond (seen in Figure 86)

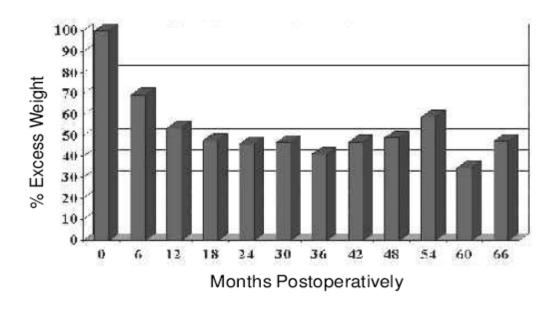


Figure 86 - Mean Percent of Excess Weight Present Following a Gastric Band Surgery 118

#### 8.3.3 Vertical Banded Gastroplasty

### Vertical Banded Gastroplasty

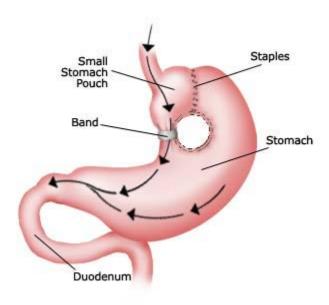


Figure 87 - Stomach after Vertical Banded Gastroplasty<sup>120</sup>

Vertical banded gastroplasty, also referred to as stomach stapling, divides the stomach into two parts, this can be seen in Figure 87. This makes the patients stomach smaller making them feel full sooner and eat least. The upper pouch (as seen in Figure 87) of the stomach is small and empties into the lower pouch. Some of the risks involved in vertical banded gastroplasty, as illustrated in Table 38, involve incisional hernias, staples can come loose, nausea and vomiting, and vitamin deficiencies.<sup>121</sup>

Table 38 - Advantages and Disadvantages of Banded Gastroplasty

Advantages	Disadvantages
	<ul> <li>Incisional hernias</li> </ul>
<ul> <li>Weight Loss</li> </ul>	<ul> <li>Staples can come loose</li> </ul>
	<ul> <li>Nausea and vomiting</li> </ul>
	<ul> <li>Vitamin deficiencies</li> </ul>

In a study conducted about the long term weight loss of patients that had vertical banded gastroplasty found that only 26% of those patients lost and keep off more than 50% of their excess weight. The study therefore found the procedure not effective. 122

#### 8.3.4 Surgery options

These weight loss options work very well for those who use them and maintain a proper diet and exercise. Without diet and exercise the patients can gain the weight back. The most common weight loss surgery preformed is the gastric bypass because it does receive the best results. The gastric band or lap band is also popular especially for those patients who do not want an invasive surgery. With the gastric bypass and gastric band being so successful, vertical band gastroplasty is not very common today.

#### 8.4 Exercise

There is often a debate on whether it is necessary to exercise in order to lose weight and maintain it. The different fad diets that are popular among the public do not put a heavy emphasis on exercise. The relationship between physical activity and weight has been studied extensively, as well as the role it plays in weight loss and weight loss maintenance.

#### 8.4.1 Physical Activity and Weight Loss

Research conducted by Skender and colleagues, compared weight loss trends in obese people using three intervention methods: diet, exercise, and combination intervention. The need for the research was found as prior research concluded that under normal circumstances, dieters find that within 2 or 3 years they regain all of the weight they had lost after going through an "obesity treatment programs that rely solely on diets".

In the research a total of 127 men and women with at least 14kg to lose were assigned a random intervention method. The research then followed up with the men and women to see their

long term weight loss. The research found that after 2 years, most of the groups had regained the weight. 123

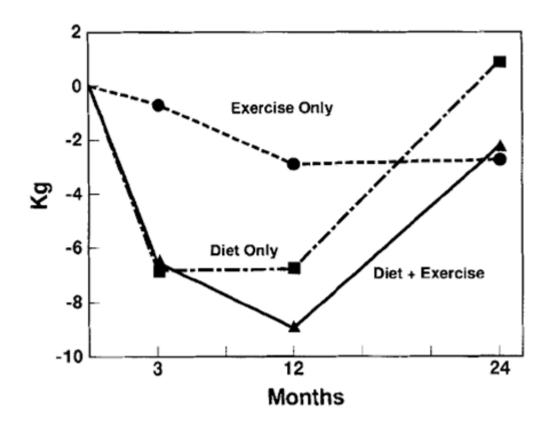


Figure 88 - Weight Changes for Treatment Groups at 3, 12 and 24 months 123

Figure 88 depicts the weight trend of the three groups over the 24-month period. The results show that both the diet-only and diet and exercise group regained the weight while the exercise only group did not gain back any weight. While the two diet groups did lose a lot of weight faster, they did gain it all back, and in some cases gained back more weight than they had when they started the program. The exercise only group lost less weight initially but managed to maintain it over a longer period of time, and on average did not again any weight over the 2 year duration.

In a similar research conducted by a team of doctors from the University of Pennsylvania School of Medicine, 77 women were put on a diet combined with either aerobic exercise, strength training, aerobic plus strength training or no diet. The research then followed their weight loss up till a year after diet plan.  $^{124}$ 

The women were prescribed a 16-week diet plan of around 925 Calories per day. Thereafter they consumed a diet of 1,200 Calories to 1,500 Calories. Additionally, the women who were put in a the 3 groups which included exercise, were provided with three on-site supervised training sessions per week for the first 28 weeks, and then two workouts per week from week 28 to 48. <sup>123</sup>

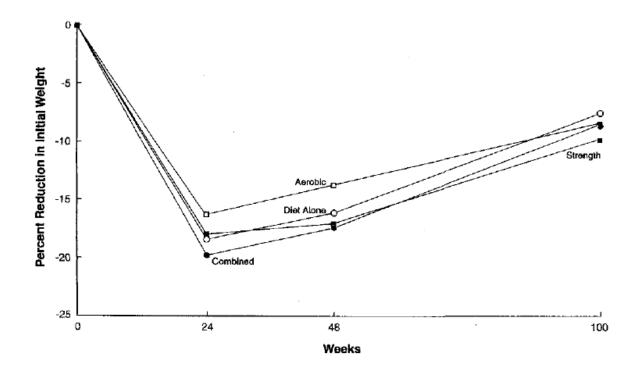


Figure 89 - Weight Loss and Regain Pattern<sup>124</sup>

A year after the treatment ended the participants returned to be weighted. The research found that all four groups lost an average of 13.5kg the first 48 weeks of the program, but regained approximately 35% to 55% of their weight loss up to the 1-year follow up. Figure 89 shows the steady increase of weight after the 48-week mark. 124

The researchers indicate that although there was no real difference between the weight loss and weight regain of the four different groups, they do mention that participants who reported exercising regularly in the 4 months period preceding the follow-up assessment regained significantly less weight than did non-exercisers.

Another experimental study to illustrate the relationship between exercise and weight loss was conducted by Pavlou and colleagues.<sup>125</sup> In this study 160 adult males from the Boston Police Department who were overweight (22% above their ideal weight for their height), were randomly assigned to one of four diet conditions. They were then randomly assigned to exercise or not to exercise, but rather to maintain their current exercise levels throughout the study period. Those who were assigned to exercise had 3 supervised 90 minute exercise sessions per week.

The four diet conditions varied in their content and caloric content. They included a balanced diet of 1000 Calories deficit (BCDD), a protein sparing modified fast (PSMF), and two liquid forms of the balanced and ketogenic diets (DPC-70, DPC-800). 126

The treatment was conducted over a 12-week period, and follow up was then conducted at the 8-month and 18 month mark.

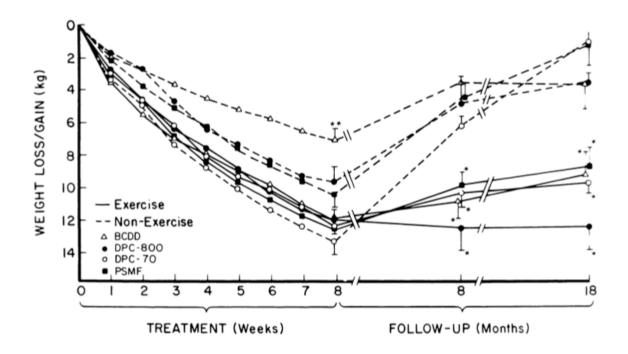


Figure 90 - Weight Loss over 18 Months<sup>126</sup>

Figure 90 illustrates the weight loss of all 8 groups. Regardless of diet condition, at the 18-month period all non-exercisers were found to have gained most, or all of their weight back. However, the exercise group maintained their weight loss.

Professor Carlos Grilo of the Department of Psychiatry in Yale University remarks that the finding of Pavlou may be "limited since the participants were only slightly overweight, presumable in fairly good physical shape since they were active policemen..." However, Grilo points out that the "differences in exercise patterns within this particular population predicted weight changes", implying that overall exercise has an important role in weight loss and weight loss maintenance. <sup>126</sup>

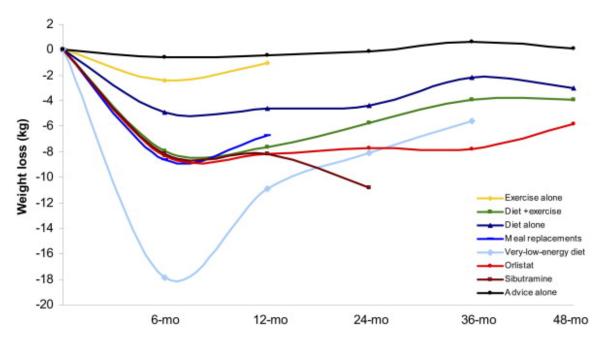


Figure 91 -Average Weight Loss of Subjects Completing a Minimum 1-Year Weight-Management Intervention;

Based on a Review of 80 Studies<sup>127</sup>

Marion Franz and colleagues conducted a systematic review of weight loss trial clinics based on 80 studies. Figure 91 shows a visual comparison of the mean weight loss per subject by different intervention methods. All groups were able to lose weight in the initial 6 months of the different studies besides the participants who were simply advised to lose weight with minimal support, and the participants who were in the exercise-alone group.

Participants who received the intervention plan of diet and exercise lost 7.9kg at 6 months, which was more than participants who were dieting alone. Exercise alone, without a focus on food intake, was not very effective, resulting in a mean 2.4 kg (2.7%) weight loss at 6 months and a mean 1.0 kg (1.0%) at 24 months.<sup>127</sup>

#### 8.4.2 Physical Activity and Health

While the relationship between physical activity and weight-loss is critical, it is also important to note the relationship between physical activity and general health. Research has

consistently found that exercise is associated not only with improved health, but also with psychological well-being.

Research conducted by Stephens, in which an analysis of four population surveys in the Unites States and Canada shows an imposing support for the positive relationship between exercise and psychological well-being. In the research physical activity and general well being, as well as lower depression and anxiety were related in four population surveys. <sup>128</sup>

In Finland, a population study was conducted to explore the association between psychological well-being and regular physical exercise. It was found that out of the 3403 participants, those who exercised regularly (at least two times a week) experienced less depressing thoughts, anger, cynical distrust, and stress than those exercising less frequently or not at all.<sup>129</sup>

These improvements in psychological well-being are not only important for their obvious health benefits. Professor Carlos Grilo points out that "improvements in mood may result in fewer instances of overeating, in response to negative emotions which represent high-risk situation for dieters." <sup>126</sup>This implies that a person who is already overweight, and perhaps even obese, who struggles with the problem of overeating, will not only benefit from exercise because they will probably lose weight, but they will also experience less desire to overeat.

Besides the psychological benefits that regular exercise offers, there are a number of physical health benefits as well. Figure 92 represents the risk of mortality for both men and women and its relationship to fitness level.

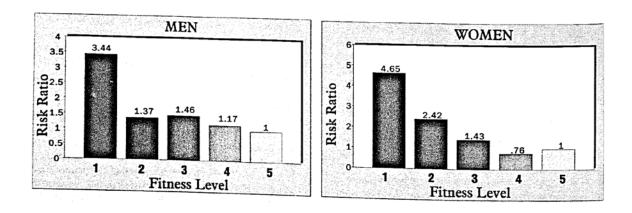


Figure 92 - Risk of Mortality versus Fitness Level130

In the study, 10,224 men and 3120 women were categorized into 5 fitness levels, from very unfit (Level 1) to very fit (Level 5). Studies were based on a 5 year period, and concluded that the risk of death for men who were categorized in Level 1 had a 3.44 greater chance of dying from their health problems. Women had a higher ratio with a 4.65 greater chance. It is also important to note the sharpest decrease in risk ratio that is observed between individuals who are unfit (Level 1) and individuals that are moderately fit (Level 2). This shows that even if the fitness level is n0t quite high, being active helps reduce the risk of mortality. Additional studies have been conducted to prove that a higher level of fitness reduces the risk of development of hypertension, <sup>131</sup> coronary heart disease, <sup>132</sup> improve lipid levels, and cardiovascular function. <sup>133</sup>

#### 8.4.3 Recommended Exercise

The USDA recommends to make physical activity a part of every persons' life. The USDA explains that "being physically active is a key element in living a longer, healthier, happier life." The USDA further explains that there are many benefits to physical activity such as improving self-esteem and feelings of well being, managing weight, controlling blood pressure, increase fitness level and even reduce the feelings of depression and anxiety.

The American College of Sports Medicine recommends the following guidelines for promoting health in adults:

- Participate in any type of physical daily activity
- Daily activity may be of any level of intensity
- Daily activity must be a minimum of 30 minutes 134

To achieve and maintain physical fitness, the American college of sports medicine recommends the following for adults:

- Exercise 3 to 5 days per week
- Intensity of exercise should be 50 to 90 percent of maximum heart rate
- Exercise should be 20 to 60 minutes of aerobic activity
- Complete resistance training 2 to 3 days per week in order to exchange strength and muscular endurance<sup>134</sup>

The American college of sports medicine explains that age in itself is not a limiting factor to exercise training, however a more gradual approach in applying the prescription at older ages seems sensible.<sup>134</sup>

For resistance training, the college recommends one set of 8-10 exercises that condition the major muscle groups 2-3 days per week, and that most people should complete 8-12 repetitions of each exercise. For older and frailer persons (50-60 years of age and above), 10-15 repetitions may be more appropriate.<sup>134</sup>

The college further explains that middle-ages sedentary and older participants may take several weeks to adapt to the initial rigors of training and will need a longer adaptation period to get optimal benefits from a program.

They also explain that older persons have a higher chance of suffering from injuries when beginning an exercise program, and that the risk is much higher for women. Being unfit and overweight, or having a previous injury also increases the risk of suffering from an injury. The college therefore recommends being cautious when exercising, and for those in a high risk to sustaining an injury, keep exercising at a moderate pace. Avoiding high impact types of activities such as running and jumping helps reduce the risk to sustaining an injury. For example, instead of completing a high-intensity interval training of running and walking, completing a continuous jogging pace is much better in order to avoid injury.<sup>134</sup>

Overall, the College does not make a specific distinction in exercise programs between overweight, unfit, or older people from healthy fit people, but recommends minor changes that might help the person to adapt to the program faster.

#### 8.5 Summary

These four alternative weight loss methods show different ways to lose weight compared to the commercial dieting programs described before. Dieting pills are prescribed to those individuals that are unable to receive the results they would like through just changing their diet and exercising. They are typically prescribed to those individuals that have a BMI of over 30 or clinically obese.

Hypnosis is another alternative option that uses the power of the hypnotic state to alter the subconscious thinking that an overweight person may have. Through scripts, hypnotherapy is a process that attempts to trick the mind into thinking good eating habits are the only option. Patients will then make better choices and therefore lose weight.

Surgeries, however, is a much more invasive option. This option is typically only for the morbidly obese, those patients which have a BMI of 35 and over or for those with health risks

such as high blood pressure or diabetes. These options restrict the amount of food one can consume in a day and therefore cause the patient to lose weight.

Lastly, the healthiest option and most successful for weight loss and weight loss maintenance is exercising; those that include exercise in their weekly routines are healthier and control their weight more easily. Additionally, exercising on a regular basis reduces the risk of mortality and many diseases.

#### 9.0 Discussion

This section highlights the main issues that were presented in this report, and outlines some possible resolutions to these concerns.

#### 9.1 Why are Americans obese?

The obesity epidemic is one of the most serious public-health problems in the United States. Food culture has changed in the United States; families no longer sit at the dinner table with home cooked meals, but rather sit in front of the television or in their car with takeout from the local fast food chain. Although information about healthy eating and nutrition is widely available, obesity is still a major problem.

The federal Government controls the law governing nutritional labeling on food items. Additionally, the Government provides further resources for people to learn about nutrition such as MyPyramid and the Dietary Guidelines for Americans. With all of these resources, one must wonder why obesity is still a problem in the United States.

During the Morgan Dining Hall Food Awareness Survey outline in section 3.2 and 6.2, it was observed that although some students believe that they would look at the nutritional value of their food, they did not do so. Most students (76%) ignored the nutritional information for the popular food items, even though many of them (68%) had previously stated that they would use this information if provided.

In the additional survey that was conducted in the local supermarket, it was observed that only 16% of the customers always read the nutritional label on the back of a new food item they were buying. Most customers (40%), said that they never check the nutritional labels on the back of the food items.

The results from these two surveys reflect the overall attitude towards nutritional labels and nutrition awareness in the United States. In section 5.0, Figure 37 shows that the average American does not meet the US Government's recommendation for food. Additionally, in Figure 41 in section 5.1.3 the percentage of people meeting the exercise recommendation of the Government is shown, and most states do not meet these recommendations.

Fast food is another major contributor to the high obesity rates in the United States. Fast foods, high in sodium, have dense Caloric values and contain more of the nutrients overconsumed and less of the nutrients under-consumed in the United States which was observed in section 5.6. For many Americans fast food is a convenient option because of the fast pace lifestyle. With 80% of Americans work at least 40 hours a week if not more, and over 130 million of Americans commute to work every day, it is not surprising that so many Americans choose to eat fast food instead of cooking at home.

Fast food is also very cheap. As seen in chapter 6, the average American spends about \$37 on groceries per week. It is possible to create weekly diet just off of fast food with only \$37, as was presented in sections 3.4 and 6.4. In the same experiment the amount of unhealthy groceries that were bought using \$37 was much larger than the amount of healthy groceries that were bought.

Many obese people consume an excessive amount of sugar and fats, which are found in greater quantities in fast food.<sup>138</sup> Foods that are high in fat and sugar have been found to be much cheaper than other foods.<sup>139</sup> Eating a diet high in fruits and vegetables is much more expensive than eating a processed or a fast food diet.<sup>139</sup> Energy-dense diets are those that are higher in fast food, snacks, desserts, and sweetened beverages.<sup>140</sup>

There are many products on the market claiming to be healthy or low-Calories, such as Cheerios cereal, Yoplait light and the Lean Cuisine products. Michael Pollan explains that these

products are highly processed "food-like substances", and with each "step of additional processing" the products become "less nutritious." <sup>141</sup> He further explains that in order to make health claims about these food products the companies need to artificially add more nutrients to the products and reformulate the food. In the survey that was conducted in section 6.1.5, many people had indicated that the health claims on Cheerios and the low-fat claims on Yoplait influenced their decision to buy these products.

There also appears to be a relationship between the number of fast food restaurants per capita in a country and its obesity rates. There are currently 0.433 McDonald's restaurants per 10,000 people in the US. The US is also the country with the highest obesity rate in the world, with an obesity rate of 30.6%. In Sweden, where the obesity rates are around 9.6%, there are only 0.12 McDonald's restaurants per 10,000 people. Likewise, Italy has a low obesity rate of 8.5% and only 0.05 McDonald's restaurants per 10,000 people.

Another interesting relationship is the relationship between obesity rates and the adherence to the national exercise guidelines in each state. Figure 41 and 42 in chapter 5.1.3 show the percentages of exercise in different states and obesity in different states respectively. Certain trends can be seen between the states with the lower percentage of people following the Government recommendation for exercise and the obesity rates in that country. Colorado has the lower obesity rates in the country, and is one of the states with a higher percentage of people following the Government exercise recommendations. On the other hand, Mississippi, the state with one of the highest obesity rates is one of the two states with the lowest percentage of people following the Government exercise recommendations.

It appears that the increased consumption of processed food and the widespread consumption of fast foods have contributed substantially to the current obesity problem in the United States. Additionally, portion sizes have increased dramatically over the past few decades,

which have also been contributing to the obesity rates. Finally, the average American does not follow the US Government's recommendation for food intake and exercise.

#### 9.2 Suggestion on Weight Loss and Weight Loss Maintenance

From the conclusions drawn in chapter 7, there is no definitive evidence that one of the commercial diets is more effective for long-term weight loss than the others<sup>90,144</sup>. The key to weight loss with commercial diets is to the follow the diet program correctly. This can be difficult for many dieters as commercial diets, like the Atkins Diet often restrict how much and what the dieter can eat. This means that many people are unable to follow the commercial diets. When the dieters can no longer follow the diet they often end up gaining back much of the weight they lost. These diets can also have adverse side effects such as ketosis and vitamin deficiency as discussed in chapter 7.

To be successful in weight loss a dieter should create a diet plan that fits with their lifestyle. This diet plan should create a negative energy balance, where the dieter consumes less Calories than they burn. In order to reach this negative energy balance the dieter should avoid processed and fast foods, as processed and fast food are often Calorie-dense as has been discussed in section 5.6. It is recommended that the diet plan includes a variety of fresh produce, lean meats, and a variety of dairy products. Portion size is another key factor to a successful diet plan. Portion sizes should be moderated to avoid overeating.

Another key component to a successful diet plan is exercise. Section 8.4 reviewed the many benefits of exercising. People who exercised were able to lose more weight and maintain the weight loss. Exercise has both many physical as well as mental health benefits. The positive benefits of exercising should motivate people to exercise in both their weight-loss journey and once they have reached their ultimate weight loss goal.

Some people try other weight loss options such as hypnosis, diet pills and surgery. Chapter 8.2 discussed the effectiveness of hypnotherapy treatment as an adjunct to dieting. For individuals that are effected by hypnotherapy, hypnosis is an option that could help in the weight loss process. As this method has no negative side effects, some people may benefit from it. Chapter 8.1 discussed over-the-counter and prescription diet pills. For obese patients who are unable to lose weight, diet pills can sometimes help to achieve weight loss. Surgery is another option for severely obese individuals. This option is only used as a start to the weight loss process for morbidly obese patients who are unable to begin their weight loss with a diet and exercise plan. After surgery the patients have to adhere to a strict diet and exercise plan to continue and maintain their weight loss.

It is important to realize that the key to weight loss requires a lifestyle change that is permanent. With a healthy, moderate diet plan and the addition of exercise, most people should be able to lose weight in a healthy fashion.

### 9.3 Suggestions on Improving Healthy Eating on the WPI Campus

As outlined in section 6.5, a number of people from the WPI community participated in a survey regarding healthy eating campaigns. One of the questions asked in this survey was what WPI could do to improve healthy eating on the WPI campus. While there were several participants felt that WPI should not need to interfere with people's food choices, while other participants gave good suggestions.

Some suggestions were to improve the quality of the salad bar in the Campus Center food court. The Campus Center food court serves most of the upperclassmen, graduate, faculty and staff of the WPI campus. The options in the Campus Center include a Quiznos, Pizza bar, hot meal option, Coyote's Jack, Dunkin' Donuts, as well as a salad bar and vast array of sodas and snacks.

One possible suggestion would be to lower the cost of the salad bar in the Campus Center. At the moment, the salad bar costs 0.40 dollars per ounce, and several people had indicated on their survey response that this was too high.

Another possible suggestion would be to either eliminate or replace the large amounts of soda in the Campus Center. There are currently 14 fridges full of soda and juice, and a wall with a soda fountain. There are over 25 types of soda and juice in the Campus Center. In section 5 the consumption of soda and its relation to obesity rates had already been discussed. Soda consumption has vastly increased over the past few decades, and adds a surprising amount of Calories to a diet if consumed on a regular basis. By only having a select few soda and juice options, many people might only drink water.

Another concern that many survey participants had voiced, was the breakfast option at the Campus Center. Many people on campus go to the Dunkin' Donuts for breakfast, which, as discussed in section 5, is not usually a healthy choice. A healthier option would be to introduce a breakfast bar at the Campus Center. This could include items such as an omelet station, hot cereal and fresh fruit.

Additionally, one thing that could vastly improve the healthy eating options on campus, and not just in the Campus Center, are the vending machine options. Currently, all vending machines on campus are soda, snacks (such as chips and chocolate) or ice cream vending machines. This means that during late nights during which students are studying on campus, the only food option they have are these vending machines.

There are other vending machine options available. The Aramark Refreshment Services Company offers vending machine with a "fresh selection" that ranges from sandwiches, soups, and salads to fruit and vegetable cups.<sup>145</sup> WPI could replace their current vending machines with

Aramark's "fresh selection" vending machines to give students, staff, and faculty members healthier snack choices.

Lastly, WPI is currently planning to rebuild the main floor of the library and would like to build a small café that would offer snacks and refreshments to students. The café could prepare snacks such as salads, sandwiches and soups and buy vegetables and fruits from local farmers' markets. Additionally, pastries and baked goods the café could be purchase from local business owners and not from commercial companies. By purchasing from local business owners, the quality of the food items will be better, as it will not be mass produced and highly processed. In section 5.6, the downsides to processed foods are discussed.

# 9.4 Suggestions on what the Government can do to Promote Healthy Eating

In the survey presented in section 6.5, participants were asked what they think the US Government could do to promote healthy eating in the United States. Again, numerous participants replied that they did not think that it was the US Government's responsibility to promote healthy eating, but that people should be responsible for their own actions.

However, the obesity epidemic can be compared to smoking and its health effects. It is widely known that smoking can lead to lung cancer, heart disease and even pulmonary diseases, and that people who experience second hand smoking have a higher risk of lung cancer as well. The two issues in hand – smoking and obesity – are both known to lead to major health problems and in certain cases even death. The Antismoking campaign in the United States started in the late 1960s and early 1970s. Cigarette consumption then dropped from 4,356 cigarettes per capita in 1963 to 2,261 cigarettes in 1998. The Antismoking campaign is the United States started in the late 1960s and early 1970s. Cigarette consumption then dropped from 4,356 cigarettes per capita in

During the tobacco control movement, the US Government passed laws to ban smoking in public areas. In 1975, Minnesota was the first state to ban smoking in public spaces such as

restaurants, but this excluded bars.<sup>148</sup> Following Minnesota's actions, in 1990 California was the first state to ban smoking in all public spaces including bars, which encouraged many other states to do the same.<sup>149</sup> Additionally, the Government frequently increases taxes on cigarettes, which is expected to reduce smoking.<sup>150</sup>

The tobacco control movement made a large difference and the use of cigarette per capita went down significantly. This is why the Government should promote healthy eating and try to reduce the obesity percentages in the United States. It is important that the Government intervenes and promotes healthier eating and lifestyle in the United States. Not only are millions of people suffering from obesity and its consequences, but obesity is also costing the Government a lot of money. It is estimated that by 2030, 86.3% of adults in the United States will be overweight or obese, and that Black women and Mexican Americans would be the most affected. This will mean that total health-care costs attributable to obesity/overweight would double every decade to 860.7–956.9 billion US dollars by 2030, accounting for 16–18% of total US health-care costs.

In the survey outlined in section 6.5, participants were asked how they perceive different health eating commercials such as the Incredible Edible Egg that the US Government sponsors. Of the participants, 51% had seen and ignored the Incredible Edible Egg commercial and only 10% had indicated that the commercial had influenced them. Similarly, only 63% of the survey participants had heard of MyPyramid.gov, whose mission statement is to "improve the nutrition and well-being of Americans" and only 18% had ever used it.

An 8-week community advertising campaign promoting heart health menu items failed to show a statistically significant increase in the percentage of heart-healthy menu items ordered. In this study, 9 restaurants advertised their healthy menu items during the 8-week period. There was no difference in the amount of times the healthy menu items were ordered before the campaign

started and while the campaign was going on.<sup>153</sup> In chapter 6.5 survey participants were asked if the Cheerios commercials and the Yoplait commercial influence them to buy these items. Results indicated that 17% of the people were influenced by the Cheerios commercials and 19% of the people were influenced by the commercials.

There are a few methods the US Government can implement to try and promote healthy eating in the United States. The Government could implement a higher sales tax on fast food, soda and snacks similar to how they implemented a higher sales tax on cigarettes. A study indicated that raising the sales tax of unhealthy energy-dense foods, a large statistical association between the increase in price and the consumption was found for low-socioeconomic status population and for those at risk for being overweight or obese. 154

Another method that the Government could implement is to create a tax exemption or a tax credit for people who purchase gym memberships. The importance of exercising to maintain weight loss maintenance as well as improving ones health has already been discussed.

The Government could also help local farmer and farmers' market organization by reducing the sales tax on fruits and vegetables sold in farmers' markets and also reducing the income tax for the farmers. Another idea would be to follow the warnings placed on cigarette packaged. Similar warnings could be placed on fast food, as well as soda, unhealthy snacks and candy. These warnings would remind the consumer that eating a larger amount of the food is unhealthy and can contribute to gaining weight and can lead to obesity.

# 9.5 Summary

There are many factors contributing to the obesity problem in the United States. Many Americans do not follow the recommended guidelines for food consumption and do not exercise enough which can lead to weight gain. Fast and processed foods are another major contributor to the obesity rates, because they are cheap and readily available.

Some Americans turn to commercial diets in the hope to lose weight. However, commercial diets are often restrictive and many people are unable to adhere to the diets for long periods of time. To be successful in weight loss a dieter should create a diet plan that fits their lifestyle that includes exercise and a healthy balanced diet.

The surveys concluded that Worcester Polytechnic Institute (WPI) students are not concerned about the amount of food they are consuming or its nutritional value. It was also found that within the local communities, only a small percentage of people read the nutritional labels on food products. WPI can make several improvements to create a healthier campus, such as introducing healthier vending machine snacks and breakfast options, and reducing the amount soda available on campus. The US government can promote healthy eating by placing warnings on unhealthy food items, reducing taxes on fresh produce, and increasing taxes on fast and processed food.

## 10.0 Conclusions

- Most Americans do not pay attention to the nutritional value of the food they consume. In the survey conducted in the local supermarket, it was found that only 16% of people always read the nutritional labels on food items.
- One survey concluded that WPI students' dietary habits are not affected by nutritional labeling. Of the students surveyed in the WPI dining hall only 24% utilized the nutritional information provided, even though 68% indicated that having the nutritional information in front of each food item would influence their food choice.
- In the same survey, it was observed that the caloric intake of these students is well above the FDA recommended guidelines.
- It was also found that most Americans are not influenced by healthy eating campaigns, such
  as the Incredible Edible Egg and healthy food commercials such as Cheerios and Yoplait
  products. Therefore, the government should try a different approach at promoting healthy
  eating.
- The average American spends \$37 on groceries per week. With this amount, one can
  purchase more processed and fast food than fresh, healthy food. This is one reason
  contributing to the high obesity rates in the United States.
- The US is the country with the highest obesity rate in the world of 30.6%. It is also the country with the highest McDonald's restaurants per capita. Due to the American lifestyle, fast food is a convenient and cheap option for many Americans. Fast food plays a major role in the increasing obesity rates in America.
- Low-Carbohydrate diets lead to quicker weight loss than low-fat low-Calorie diets during the first six months, however over a one year period the difference in weight loss is insignificant.

Because these diets can be restrictive, many dieters are unable to adhere to the diet restrictions for long periods of time. Therefore, there is little research on the efficacy of the long term results of these diets.

- The key to weight loss with commercial diets is to the follow the diet program correctly, if
  the dieter stops following the diet they often end up gaining back much of the weight they
  lost. These diets can also have adverse side effects such as ketosis and vitamin deficiency.
- Exercise proves to be a vital part in weight loss and weight loss maintenance. Additionally there are many health benefits to regular exercise.
- For individuals that are affected by hypnotherapy, hypnosis is an option that could help in the
  weight loss process. And for obese patients who are unable to lose weight, diet pills can
  sometimes help to achieve weight loss.
- Weight loss surgery can be a start to the weight loss process for morbidly obese patients, who are otherwise unable to begin their weight loss with a diet and exercise plan alone.
- To be successful in weight loss a dieter should create a diet plan that fits with their lifestyle.

  To achieve weight loss the diet plan should have a negative energy balance. Dieters should eat a variety of fresh healthy food, and supplement an exercise plan to maintain weight loss.

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## 12.0 Appendix

12.2 Food Nutrition Awareness Survey in Morgan Dining Ho	all in Worcester Polytechnic
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## 12.1. Efficiency of Diets Survey Results

Gender	Age	Have you ever been on a diet to lose weight?	Have you ever been on one or more of the following diets?	Did your diet plan include exercise or did you exercise while you were on a diet?	How would you rate the Atkins diet?	How would you rate the South Beach Diet?	How would you rate the Weight Watchers Diet?	How would you rate the Jenny Craig diet?	How would you rate the Nutrisystem diet?	How would you rate the Alli diet?	How would you rate the Zone diet?	If you selected other, how would you rate this diet?	Are you happy with your weight?	Do you exercise? How much? What kind of exercise do you do?	If you could, please provide your weight and height
Male	30-39	No	Never been on a diet	N/A - Never been on a diet plan									Yes	yes. few hours a week. rock climbing, soccer.	5'10" 135 lbs
Female	60-69	Yes	Atkins, I've been on diets - but not a fad diet	Yes	5							1	No	Goal is daily. Actually manage about 4 days a week. Use a recumbent exercise bike for 30 minutes to an hour.	5' 6" 180 pounds
Male	20-29	No	Never been on a diet	N/A - Never been on a diet plan									Yes		
Female	50-59	No	diabetic diet	N/A - Never been on a diet plan								2	Yes	Tai Chi 3 times per week	
Female	70 and over	Yes	I've been on diets - but not a fad diet	No								4	Yes	Tai Chi three days a week	5ft61/2in - 130 lbs

Female	50-59	Yes	Atkins, South Beach Diet	Yes	3	3	3				No	Walking50 minutes about 3x/week	5'8" , 185 lbs
Female	50-59	Yes	Atkins, Blood Type	No	5					5	No	no. Hip pain	165 lbs. 5'3"
Female	50-59	Yes	Atkins, South Beach Diet, Weight Watchers	Yes	2	3	3				No	Eliptical, regularly for a period of time and then nothing for a while.	5.5 170
Female	50-59	Yes	South Beach Diet, Weight Watchers	Yes		5	4				No	I work out with a personal trainer 3 times a week - 30 minutes of fitness/strength training plus 30 minutes of cardio. My job is one that keeps me on my feet and active as well.	245, 5'6"
Female	60-69	Yes	Atkins, Nutrisystem, Zone	Yes	4				4		No	recumbant bike; total knee replacement and neurocardiogenic syncope prevent additional exercise.	5'10" and 225 lb
Female	60-69	Yes	Weight Watchers	Yes	0						No	I used to and then I had surgery and stopped and haven't gotten back into it.	5 feet no inches 184#
Male	50-59	Yes	Atkins, Weight Watchers, Jenny Craig, liquid (to lose weight before surgery)	Yes	1			4		4	No	Walk about 2-3 miles daily in summer occassionally the rest of the year.	5ft. 7in. 240lbs.
Female	20-29	Yes	Atkins, Weight Watchers	Yes	5						No	Yes, frequently work out with weights, cardio exercises, etc. Approximately 4 times/week.	5'5" 160 lbs
Female	40-49	Yes	Weight Watchers, I've been on diets - but not a	Yes						3	No	Yes, I exercise 4 to 5 times a week with	145 lbs. 5'3"

			fad diet								weights, cardio, and spin bike.	
Female	50-59	Yes	Weight Watchers	Yes						No	Sporadically - try to get to the gym 3x a weel. Spinning and group classes	184.5 / 5' 7"
Female	40-49	Yes	Atkins, I've been on diets - but not a fad diet	Yes	5				5	No	Not at the moment	5'5" 170
Male	60-69	No	Never been on a diet	N/A - Never been on a diet plan						No	a little walk	5' 6" 280
Female	40-49	Yes	Weight Watchers	Yes						No	Not enough, I walk.	
Female	40-49	Yes	South Beach Diet, Weight Watchers, Nutrisystem	Yes		2	2	2		No	I have physical limitations. I try to walk a few miles a week, and do some aerobic dancing when I can.	179 lbs, 5'4"
Male	30-39	No	Never been on a diet	N/A - Never been on a diet plan						Yes		
Female	30-39	Yes	Weight Watchers	Yes						Yes	yes 4-6 times a week walking 2-4 miles	5'2" 120lbs
Female	30-39	Yes	I've been on diets - but not a fad diet	Yes						No	yes, stair stepper with weights, not often enough	
Female	30-39	No	I've been on diets - but not a fad diet	Yes					4	No	Yes, approximately 14 or more hours per week. Walking.	145, 5'4"
Female	40-49	No	Never been on a diet	N/A - Never been on a diet plan						Yes	Yes.  3x/wk  Strength training,	118, 5'1"

														cardio, pilates	
Female	30-39	No	Never been on a diet	N/A - Never been on a diet plan									Yes	yes, 3 times a week, gym workout	5"3' 140
Female	60-69	Yes	Dr. Phil	No								5	No	No	165 lbs 61 inches
Female	60-69	Yes	Sugar Busters	Yes									No	I walk	5' 6" 189 lbs
Female	20-29	Yes	Weight Watchers, Alli	No						4	ļ ļ		No	curves 3 times a week for 30 mins weights and cardio	165 5'6"
Female	60-69	Yes	Weight Watchers	Yes											
Female	50-59	Yes	Atkins, South Beach Diet, Weight Watchers, Alli	Yes	2	2	2			5			No	Some times not regular but weights, tread mill  try for a few times a week	5'6" 164 lbs
Female	50-59	Yes	Atkins, South Beach Diet, Weight Watchers, Alli	Yes	5	3	3	C		) 3	3 0		No	yes 2x wkly treadmill and exercises	5'4" 226
Female	40-49	Yes	Weight Watchers, I've been on diets - but not a fad diet	Yes								5	No	treadmill	5'8" 195lbs
Male	50-59	No	Never been on a diet	N/A - Never been on a diet plan	0	0	(	C	(	) (	0	0	Yes		
Female	40-49	Yes	Weight Watchers, low carb	Yes								4	No	cardio 20 min 3x or more times weekly resistance training 20 min 3x or more times weekly walking 1 1/2 hours 5x week	5' 7" 155
Female	30-39	Yes	Atkins, South Beach	Yes	3	3	3						No	Cardio	145, 5'0"

			Diet									
Female	20-29	No	Never been on a diet	N/A - Never been on a diet plan		5				No		
Female	30-39	Yes	I've been on diets - but not a fad diet	Yes					]	No		
Male	20-29	No	Never been on a diet	N/A - Never been on a diet plan						Yes	No, just occational walking	125 lbs, 6'4"
Male	30-39	Yes	Zone	Yes				5		No	When I was on the "diet", I was exercising at least twice a week, doing the treadmill or the stationary bike. Now that my big push to lose weight is over, I only exercise once in a while. Life is too busy, and I'm not really giving it a priority just yet.  In case you care I was on The Zone for 16 weeks. I was very strict. It is not so much a diet as a way of life. It helps you understand the way different components of food (fat, protein, and carbs) interact and how your body needs all of them in a certain	205lbs and 5' 10"

														balance. I lost 46 pounds in 16 weeks. Now that I understand how the "diet" works I am more-or-less in the Zone all the time. Sometimes, I'm more strict. Other times, I am less strict. But I have maintained my weight. It is an amazing diet. It was developed by Barry Sears. He spent his life working with Diabetics, and The Zone is built on his life's work.  Good luck with your	
Female	20-29	No	Never been on a diet	N/A - Never been on a			5						Yes	Running one to three times per week.	5'7", 150 lb.
Female	20-29	No	Never been on a diet	N/A - Never been on a diet plan			5								5'7 135
Male	20-29	No	Never been on a diet	N/A - Never been on a diet plan									Yes	Not regularly.	155 lbs, 5'9"
Male	19 and under	Yes	Nutrisystem	Yes	5	5	4	. 5	5	5	5	5	No		
Female	20-29	No	low carb, high protein and fat, but not	Yes			5						Yes	I exercise by doing yoga, walking, and	5'7", 130 lbs

Mil	40.40	N	specifically "atkins"	N/A				N.	farming. Yoga - 2x per week, 1 hour each time Walking - 1x per week, 1 hour each time Farming - 3x per week, 4 hour each time	LCOLDS / C
Male	40-49	No	Never been on a diet	N/A - Never been on a diet plan				Yes	Weekly. HIke Bike Walk	160 LBS / 5' 7.5"
Female	20-29	Yes	South Beach Diet, Weight Watchers, I've been on diets - but not a fad diet	Yes	3	3		2 No	Very little. I do not much time outside of work. Sometimes I use my Wii Fit to do yoga and step aerobics.	180lbs, 5ft 8in
Female	20-29	No	Never been on a diet	N/A - Never been on a diet plan		5		Yes	Yes, at least once a week.Different activities: kickboxing, tennis, snowboarding, dance, wall climbing, hiking.	120lb 5'3"
Male	20-29	No	Never been on a diet	N/A - Never been on a diet plan				Yes	Yes, cardio and freeweights (60 minutes) twice a week and rock-climbing twice a week (120 minutes)	5'7" 143lbs.
Male	20-29	Yes	Weight Watchers	Yes				Yes	In the winter, I exercise on average three days in the week but in the spring and summer when the weather is nicer, I	245 and 5'11 3/4"

								exercise between 5-7 days in the week (running)	
Male	50-59	Yes	I've been on diets - but not a fad diet	No				Note: I do not think the above question (happy with weight) is a yes/no question. I am not completely happy, but I am not actively unhappy either.	6'2", 195 lbs.
								Onto the exercise: I walk regularly, especially in the summer, when I walk 5 miles 2-3 times per week (golfing). I do core exercises about once per week. I should do more.	
Male	30-39	No	Never been on a diet	N/A - Never been on a diet plan			Ye		160 lb/5'10"
Female	40-49	No	Never been on a diet	N/A - Never been on a diet plan			Ye	Daily. Walk one hour/day. Strength training 3x/week for 1 1/2 hours.	130 - 5' 5"
Male	50-59	No	Never been on a diet	N/A - Never been on a diet plan			Ye	Run 20-40 miles/week	132lbs/5'8"
Female	30-39	No	Never been on a diet	N/A - Never been on a diet plan			No	Yes ~3x week. Running, yoga, weight training.	5'8" 156

Male	30-39	Yes	I've been on diets - but not a fad diet	Yes					Yes		
Male	40-49	Yes	I've been on diets - but not a fad diet	Yes					No	Yes. Outdoor cycling. Indoor gym (various aerobic and weight lifting equipment). Frequency is inconsistent.	220 lbs, 5' 9"
Female	20-29	Yes	Alli, I've been on diets - but not a fad diet	Yes			3	2	No	Yes, 3-5 times per week, 1hr each cardio some weight training	5'9"
Male	60-69	No	Never been on a diet	N/A - Never been on a diet plan					Yes	Try to walk at least a mile a day, but not in bad weather.	5'9' 150 lbs
Male	50-59	No	Never been on a diet	N/A - Never been on a diet plan					Yes	No	168 lb, 5'9"
Male	60-69	Yes	Prune diet, kelp and lecithin diet	Yes				3		When committed, I jog 6 miles or swim one mile and I do one or the other of these at least 4 times per week. I am a winter wuss so swimming in an indoor pool predominates. It does not drop the weight like jogging does.	5 feet 6, 180 pounds
Male	20-29	No	Never been on a diet	N/A - Never been on a diet plan					Yes	Running 3X a week Weights 1-3 Times a week	205 6' 2"
Male	40-49	Yes	Weight Watchers, P90X	Yes				5	Yes	At least three times per week. Lately	176 lbs and 5'10"

										baseketball at lunch for an hour. Also, just completed P90X extreme workout routine. That was intensive 6 days per week for one hour and 15 minutes of exercise with varieties of exercise including synergistic training, jump training, Kenpo Karate, arm, shoulders, leg, back and core training. That was for 90 days and I lost 36 pounds and have only fluctuated within a couple of pounds since then. I also took protein supplements, daily multivitamins, and fish oil. Best thing I ever did for myself!	
Male	40-49	Yes	self-imposed raw veggies and cottage cheese for 4 weeks to eliminate "freshmen 15"	Yes				5	Yes	Yes, run about 3-4 miles outdoors, anywhere from 1 to 3 times a week.	165 pounds, 5"11"
Male	30-39	No	to gain muscle. shakes	Yes					Yes	yes 2-3 a week Soccer, Yoga, outdoors (hiking, snowboarding)	170, 5'10
Male	50-59	Yes	Weight Watchers	Yes					No	No.	5' 10" 280 lbs.

Female	20-29	No	Never been on a diet	N/A - Never been on a diet plan		5		Ye	es	I do not exercise for the purpose of exercising, but I do get physical activity.	#######################################
Male	60-69	Yes	South Beach Diet, Weight Watchers	Yes	3	3		No	0	Walk 1 hour each day, karate twice/week (1 hour each)	139#, 5'5"
Male	20-29	No	Never been on a diet	N/A - Never been on a diet plan				No	0	Weight lifting usually 4 days a week. Occasionally row for 20-45min.	194lb 5' 11"
Female	40-49	No	Never been on a diet	N/A - Never been on a diet plan				Ye	es	Jazzercise - at least once a week, three times if I can get to a class. Otherwise I take stairs always (less than 5 stories up), walk as much as possible.	128 lbs, 5'4"
Female	20-29	No	Never been on a diet	N/A - Never been on a diet plan		5		Ye	es	Yes. 1-3 hours a day. 1 hour of yoga or pilates 4-5 times per week 40-60 minutes of cardio per day (swimming, elliptical, running, biking-sporatically) 1 hour of dance 2 times per week Lift several times a week as well. Other activities include: rockclimbing, hiking, skiing,	125 lbs, 5 ft 6.5 inches
Male	20-29	Yes	I've been on diets - but	Yes				Ye	es	4 times a week. 2	190 5'9"

			not a fad diet							times weight training and 2 times cardio. Every time at least 40 minutes	
Female	20-29	Yes	I've been on diets - but not a fad diet	Yes					No	Yes, 5 times a day. Running.	
Male	40-49	Yes	Atkins	No	1				Yes	The Atkins diet I tried and failed many years ago. Now I exercise, 5 days a week for 20-30 minutes per day.  Recently ran a 5K in 21:50, not bad for an old man. Key is to eat good food (lots of fruits and grains) in moderate quantities and get some exercise.	175 pounds 6 feet 0"
Female	60-69	Yes	I've been on diets - but not a fad diet	Yes				2	No	I go to a gym 2-4 times a week. In good weather I walk 3 miles 1-2 times a week. I spend 30 minutes on an elipical machine then 4 weight machines.	5'1" 128
Male	60-69	No	Done carbo-loading	Yes				3	Yes	4-5 days/week. 45-60 minutes each. 3-4 days running; 1-2 days racquetball/squash.	73 in; 165 lbs
Male	30-39	Yes	I've been on diets - but not a fad diet	Yes				4	Yes	I play with my infant daughter 5 days a week. Involves more running around than more sports.	182, 5'9"
Female	30-39	Yes	Atkins, Weight Watchers	Yes	2				No	No, I do not make the time in my schedule to	160 lbs. 5'4"

											exercise. I have a lot of excuses as to why I do not go to the gym I am a member of, but they are just excuses. The fact is, I'm just not motivated to go. I'm on Weight Watchers now. When I lose some weight, I'll feel like I'm making a	
											difference and see the weight coming off, then I'll be motivated go to the gym. I hope!	
Female	20-29	Yes	I've been on diets - but not a fad diet	Yes					3	No	Usually cardio and weights 3-4 times a week	5'5", 145lb
Male	30-39	No	Never been on a diet	N/A - Never been on a diet plan						Yes	Regular cardio and weight training.	5'9", 160 lbs
Male	30-39	No	Never been on a diet	N/A - Never been on a diet plan						Yes	In warm months I ride my mountain bike on outdoor trails once a week. That's about it!	135 lbs, 5'10"
Female	40-49	No	Never been on a diet	N/A - Never been on a diet plan						Yes	Run three miles every morning.	5'4" 120 lbs.
Female	50-59	No	Atkins, South Beach Diet, Weight Watchers	Yes	0	0	0			No		5'4 200lbs
Male	60-69	Yes	I've been on diets - but not a fad diet	Yes						No	A little - 15 - 30 minutes on a bike several times a week.	6 feet 250 pounds
Female	50-59	Yes	Weight Watchers	Yes						No	walking occasionally	5' 6" 163

Female	40-49	Yes	I've been on diets - but not a fad diet	Yes					2	No	Daily Yoga and Walking (weather permitting)	5'8", 213lbs
Female	20-29	Yes	I've been on diets - but not a fad diet	Yes						Yes	Yes. Running 5 days a week.	5'5" 120lb
Male	40-49	Yes	nu4you.net	Yes					5	Yes	resistance training, cardio. Four times a week.	6' 1", 180lbs
Female	30-39	Yes	Weight Watchers	Yes						No	none right now	
Female	40-49	Yes	Weight Watchers	Yes						No	Walking, treadmill, some strength training. Not enough. Work out in spurts	5'8" 165 lbs
Female	60-69	Yes	Atkins, South Beach Diet, Weight Watchers	Yes	3	4	4			Yes	walk as much and as far as time permits	5'4" ; 126#
Female	40-49	Yes	Weight Watchers	Yes						Yes	30 minute brisk daily walk during lunch. I also do additional exercise at home with abs, cardio and weights.	152 lbs. 5'8"
Female	20-29	Yes	Weight Watchers	Yes						No	Off and on cardio and weight training at the gym - currently off.	5' 4" 180 lbs
Female	30-39	Yes	I've been on diets - but not a fad diet	Yes						Yes	Yes, 3 times a week, Cardio and Strength Training.	126 pounds, 5'5"
Female	30-39	Yes	Weight Watchers, I've been on diets - but not a fad diet	Yes						No	Cardio, including running, walking, elliptical: 3-4 times per week Yoga - 1-2 times per week	172, 5ft7in
											Strength Training - 2	

										times per week	
Female	40-49	Yes	South Beach Diet, Weight Watchers	Yes	3	3	0		No	walk for a half hour daily	5'4" 160lbs
Female	40-49	Yes	Weight Watchers	Yes					No	I recently began exercising again. 3x week weights and cardio	170 5'5"
Female	40-49	Yes	I've been on diets - but not a fad diet	Yes				3	No	3 days a week. 1 mile on treadmill and weights	5'7" 147lbs
Female	60-69	Yes	South Beach Diet, Weight Watchers	Yes	5	4			Yes	3 x week, weights, cardio	150, 5'5"
Female	20-29	Yes	Weight Watchers	Yes					No	Not enough	140 lbs/ 5'1"
Female	20-29	Yes	I've been on diets - but not a fad diet	Yes				2	Yes	Exercise 3-5 times per week. Cardio 3 days, weight training 2 days	5 ft. 6 in. 138 lbs
Male	60-69	Yes	I've been on diets - but not a fad diet	Yes					No	Walking - I try to reach a goal of one mile per day at work.	240 5'6"
Female	50-59	Yes	Weight Watchers, diabetic pyramid by myself	Yes				5	Yes	used to swim a mile a day and do an hour of aerobics and a half hour or more of dumbbells and an ab/stretching routine in my younger years. Now I do a half hour of interval walking on the treadmill, still do the ab/stretching routine in the early am and still lift dumbbells only lighter weight ones and less sets. (still want to get down at least 5 more lbs in	5'6" 159lbs

												weight)	
Female	50-59	Yes	cutting out the junk food- sweets	Yes						4		in the good weather- run 3-4 times a week aerobics class just joined a gym- treadmill- bike and weights- 3 times aweek	not sure
Female	50-59	Yes	Atkins	Yes	5						No	Yes - I do cardio for 45 minutes x 5-6 times per week; also do pilates 3 x per week for 40 minutes; lastly, I do strength training 3-5 times per week for 30 minutes.	5'5", 146lbs.
Female	40-49	Yes	South Beach Diet	Yes		5	4				No	Yes. Try to three times a week - abs, cardio/weight lifting and swimming	102 5'2"
Female	50-59	Yes	Atkins, Weight Watchers, Jenny Craig	Yes	3			4			No	I do use a treadmill at home, and walk in my neighborhood	135 5'
Female	20-29	Yes	Atkins, Weight Watchers	Yes	4						No	Yes. 3-4 days a week. Cardio and Weight training.	220 5'10"
Female	30-39	Yes	South Beach Diet, Weight Watchers	Yes		2	2				No	Yes, training for a trialthlon so I swim, bike or run 5-6 times per week. This helps a lot with weight loss and body trimming.	5'3, 180
Female	30-39	Yes	South Beach Diet, I've been on diets - but not a fad diet, soup? cabbage soup? something like that.	Yes		3	3			1	No	Currently, I'm pregnant which is making things a little tricky! But when not pregnant, I usually	5 ft, 3 in. Prepregnant weight was 147 (let's go with that! :))

											would walk 30-45 minutes 3-4 days a week.	
Female	70 and over	Yes	Cabbage Soup Diet	No					5	No	Some	5'6" 150
Female	70 and over	Yes	Cabbage Soup Diet	No					5	No	Some	5'6" 150
Female	40-49	No	Never been on a diet	N/A - Never been on a diet plan						No	Yes, 2-3 miles/per day	145/5'6"
Female	30-39	Yes	South Beach Diet, Weight Watchers	Yes		0	0			No	I use Wii Fit to exercise. I was exercising 3-5 times a week for most of 2009, and I lost more than 20 pounds doing that while on Weight Watchers, but lately it hasn't been as often. Outside of walking the dog and doing housework,I've been exercising only a couple times a month.	5'8" tall; 195 lbs.
Female	50-59	Yes	Atkins, Weight Watchers, Dr. Stillman	Yes	2					Yes	Running, pilates, yoga 3-4 times per week	5'4" tall, 115 lbs.
Female	30-39	No	I am on a gluten free diet	N/A - Never been on a diet plan						Yes	Walk every day for about a half hour. Sometimes do the elliptical machine.	W=115 H=5'6"
Female	20-29	Yes	South Beach Diet, I've been on diets - but not a fad diet	Yes		3	3			Yes	Yes - a few times a week, but not as much as I'd like. Life's so busy!	5'7" / 130 lbs.
Male	30-39	Yes	I've been on diets - but not a fad diet	Yes	4	4	4			No	run, eliptical, swim, weight lifting	6'2" - 245lbs

Female	60-69	Yes	Weight Watchers, Just me trying to eat fewer carbs and get more exercise	Yes					No	I walk a lot, go to the gym sporadically-couple of times a week on average  But I have to add that the effectiveness of diets changes with age: all diets I ever did were highly effective before I turned 50 and have been almost hopeless since then.	5'5" and +/-144 ugh
Female	70 and over	No	Never been on a diet	N/A - Never been on a diet plan					No	Do not exercise much at all. Used to dance and walk quite a lot.	135lbs 5'/3 1/2"
Male	20-29	No	Never been on a diet	N/A - Never been on a diet plan					Yes	Much more active in spring/summer/fall - (sports leagues, etc) winter- not much. but if I needed to average- prob. about 3 hours/week	6'3" 175lb
Female	40-49	Yes	South Beach Diet, Weight Watchers	Yes	3	3	3		No	walking-1 time/week yoga-2 times/week	5'6" 155 lbs
Female	50-59	No	Never been on a diet	N/A - Never been on a diet plan					No	Hardly at all. But I know if I simply got on the treadmill that I have for an hour a day maybe I'd lose 10 lbs	5'6" , 152 Lbs
Female	40-49	Yes	South Beach Diet, Weight Watchers	Yes	4	3			Yes	I walk quite a bit, I also belong to Worcester Fitness and work out there at least a couple of times a	135 lbs., 5'5"

														week. I have also participated in the lunchtime yoga offered at WPI.  PLEASE NOTE: Weight Watchers is NOT a diet - it's a program to help people learn healthy eating habits and learn to avoid bad eating habits.	
Female	60-69	Yes	Atkins, South Beach Diet, Weight Watchers	Yes	1	2	2						No		
Female	20-29	Yes	I've been on diets - but not a fad diet	Yes									Yes	Daily walking.	132 lbs; 63"
Female	30-39	Yes	South Beach Diet, Weight Watchers, Jenny Craig, Nutrisystem, Alli	Yes	2	5	4	3	3	2	2		No	Not very often, if I exercised more it would make weight control easier	190 pounds 5'6"
Female	20-29	Yes	Weight Watchers	Yes									No	Not as much as I would like since I dont seem to have a workout buddy.	155 lbs, 5'3"
Female	50-59	Yes	Weight Watchers, Jenny Craig	Yes				2					Yes	I work out at the WPI fitness center 3 times a weeknow- 15 minutes on treadmill, 15 minutes on stationary bike. I also walk as much as I can.	5'6" 142lbs
Female	40-49	Yes	South Beach Diet, Weight Watchers	Yes		5	4						Yes	30 minutes 3-4 times/week	5'6 - 140
Female	40-49	Yes	Counting Calories and Fat	Yes								5	No	Mostly walking as I have arthritis.	5'5" 259
Female	30-39	Yes	Atkins, Weight	Yes	2			4					Yes	I try to exercise 3	177, 5 foot 2

			Watchers, Jenny Craig								times a week doing water aerobics.	inches
Female	20-29	No	diet to gain weight only	No			5			No	No.	5'4" 103 lbs
Female	40-49	Yes	Atkins, I've been on diets - but not a fad diet	Yes	4					l No	I walk for 1/2 hour daily at lunchtime and in the spring, summer, and fall I jog 2.5 miles 5 days a week as well. Also 1.5 hours of lawn mowing once each week during those seasons. So one day each week during decent weather I jog, walk and mow the lawn. I feel good about myself that day!	5' 1" and 135 lbs
Female	30-39	No	Never been on a diet	N/A - Never been on a diet plan						Yes	Walk 20 minutes twice a week, yoga every evening, weight lifting (picking up 20 pound toddler)	130 lbs, 5'6"
Female	50-59	No	Never been on a diet	N/A - Never been on a diet plan						Yes	Yes, I exercise. 2-3 times a week. Light weights, cardio, yoga and walking at noontime	5' 8" 130 lbs
Female	40-49	Yes	Atkins, South Beach Diet, Weight Watchers, best life	Yes	4	4	3			5 Yes	30 minutes daily at least 5 times a week	175 5' 7"
Female	40-49	No	Never been on a diet	N/A - Never been on a diet plan						Yes	Not as much as I would like.	185lbs, 6'0"
Female	50-59	Yes	Atkins, Weight Watchers	Yes	4					No	I have exercised regularly since my late twenties. Aerobics on	5'2" 125 lb

												a machine of some sort (it varies) and weight lifting (machine and free). Three to four x week for this. Plus I walk my dog daily.  Gloria Vanderbilt said you can never be too rich or too thin.	
Male	40-49	No	Never been on a diet	N/A - Never been on a diet plan							Yes	Somewhat, tennis, racquetball, walk dog	150 lbs, 5ft 9in
Female	30-39	Yes	South Beach Diet, Weight Watchers, LA Weightloss	Yes	3	3	3			4	No	yes, average 3 times/week; dancing, walking, aerobics	250, 5'4"
Female	30-39	Yes	I've been on diets - but not a fad diet	Yes							No	Not enough I do some floow exercises when I get a chance walking whenever possible. Otherwise, farm chores are the only exercise opportunities I get.	5'7" 170 lbs
Female	50-59	Yes	Physician-assisted plan	Yes	0						No	Limited - want to get back to a 4 day wk. regimen	139 - 5'1"
Female	30-39	Yes	Jenny Craig, Cutting Calories based on goal weight over time	Yes				5		3	No	I exercise four times a week. Two days are an hour of cardio: 30 minutes of treadmill running or elliptical and the other 30 is on a stationary bike. The other two days are one	5'6" & 160 pounds

													hour of a group weights class, plus 30 minutes of treadmill running or elliptical.	
Female	30-39	Yes	Weight Watchers	Yes	0	0	0	2	0			Yes	walk daily	143 5'6
Male	20-29	No	Never been on a diet	N/A - Never been on a diet plan								Yes	Gym twice a week: 20 min of treadmill 30 min cycle 30 min exercises + abs	79kg ; 1m80
Female	50-59	Yes	Weight Watchers, I've been on diets - but not a fad diet	Yes								Yes	walk, swim, 3x/week minimum	165#, 5'10"
Male	60-69	Yes	Weight Watchers	Yes								Yes	Not as often as I should in the winter.	200 lbs, 6ft
													I bicycle.	
Female	50-59	Yes	Atkins, South Beach Diet, Weight Watchers	Yes	4	4	3					No		
Female	30-39	Yes	low carb and sugars	Yes							4	Yes	Yes. At least 3-4 times a week. Strength training and yoga	
Male	30-39	No	Never been on a diet	N/A - Never been on a diet plan								No	yes, 1/4 - 1 hour per day. Brisk walk	222 lbs, 6'2"
Female	50-59	Yes	Weight Watchers	Yes								No	walking about 3 to 4 times a week	
Female	20-29	No	Never been on a diet	N/A - Never been on a diet plan			5					Yes		110, 5'3"
Female	30-39	Yes	organized by my gym	Yes							5	No	No time for any right now, besides shoveling snow. I miss it!	160 lbs - 5'6"

								1	T T	1		
											(Comment: The low-carb diet my gym provided was fantastically effective, but prohibitively expensive. Lots of raw fruits and vegetables just aren't sustainable on a grad student stipend. So now I'm back to my usual ramen-potatoes-rice	
Female	50-59	Yes	Weight Watchers,	Yes						Yes	based cuisine.) Walk up stairs	145 5'5'
remale	30-39	168	Grapefruit	1 68						168	wark up stairs	143 33
Male	20-29	No	South Beach Diet	Yes	3	3	2			Yes	I try to get to the gym three days a week. I do cardio and lift weights.	150
Female	40-49	No	Never been on a diet	N/A - Never been on a diet plan						Yes	yoga, skiing, gardening, walking	5' 3" 118 lb
Male	40-49	No	South Beach Diet	No		3	3			Yes	Just walking as I go about my day	5'9, 160 lb
Female	50-59	Yes	Weight Watchers	Yes						No	Yes. Walk/jog 4 - 5 times per week.	157 5'5"
Female	40-49	No	Never been on a diet	N/A - Never been on a diet plan						Yes	yes, walking	108 lbs 5'4"
Female	40-49	Yes	Atkins, Weight Watchers	Yes	4					No	gym twice a week, bicycle and elliptic and weights. once a week water aerobics	5ft 4" 148 pounds
Male	20-29	No	Never been on a diet	N/A - Never						Yes		6'0" 175 lbs

				been on a diet plan										
Female	40-49	Yes	Atkins, South Beach Diet, Weight Watchers, Nutrisystem	Yes	3	5	4		1			No	3-4x per week - yoga, ellipictal, pilates, weights	
Female	40-49	Yes	Weight Watchers, Jenny Craig	Yes				4				No	Yoga 3x per week. Gym - Cardio 1-2x per week.	5'6" - 160 lbs.
Female	30-39	Yes	I've been on diets - but not a fad diet	Yes							5	Yes	yoga 2x/week, cardio & weights 3x/week	120 lbs. and 5 feet tall
Female	60-69	Yes	I've been on diets - but not a fad diet	Yes							4		try to walk daily for 35 minutes to an hour, usually turns out to 5 times a week cross country skiing when possible yard work including firewood moving in the winter, shoveling	132, 5 feet 3 inches
Female	50-59	Yes	I've been on diets - but not a fad diet	Yes								Yes	Yes several times a week. Walking, yoga and aerobics	5'5" 130
Male	50-59	No	Never been on a diet	N/A - Never been on a diet plan								Yes	run, walk, hike, lift etc Daily for an hour or so with longer on weekend	6'/ 173#
Male	30-39	Yes	Weight Watchers, Zone, Body for life	Yes						1	3	No	I used to before a wife and kids, Weights and cardio	5'7" 210lbs
Male	60-69	No	Never been on a diet	No								Yes	Walk 2-3 miles a day with and without the dogs. Ride bike in summer from 14-20 miles every couple of days.	197 pounds, 5'11"

Female	20-29	Yes	I've been on diets - but	Yes			2	No		
Female	50-59	No	not a fad diet  Never been on a diet	N/A - Never been on a diet plan				No	I get some form of exercise half to most days of the week, although nothing on a regular basis that's very strenuous. Walking, dancing, hiking, skiing,	115# 5'2"
									occasional "regular" exercises at home. Regarding above question (happy w/ weight) it's not so much the few pounds I'd like to lose as it is I'd like to be in better shape. And chances are, I'd probably lose those few pounds if I	
Female	40-49	Yes	I've been on diets - but not a fad diet	Yes			3	No	got more exercise!  I do normally exercise about 2-3 times per week at Worcester Fitness.  I do cardio and strength training and have had some work outs designed for me that target my core.  I do not consider myself to be overweight but just not toned and not in the best shape I could be in.	5'2" and 140

Female	40-49	No	Never been on a diet	N/A - Never been on a					Yes	1 hour 3 times a week	145
				diet plan							
Female	50-59	Yes	Atkins, Weight Watchers	Yes	5				No	used to exercise 3-4 weekly 1-1 1/2 hrs. Cardio, arobic, walking, strength training. Injuries occured and prevent me exercising.	5'2" 185lbs
Female	30-39	Yes	Weight Watchers, I've been on diets - but not a fad diet	Yes					Yes	I exercise 4-6 times per week at the gym for 45+ minutes each day. (Closer to 60 minutes on the weekends, if I can.) I do cardio (fast walking, biking, ellyptical trainer) and some strength training. In the better weather, I prefer to walk outside.	145, 5' 7"
Male	50-59	No	Never been on a diet	N/A - Never been on a diet plan					Yes	Yes, 5x a week. Aerobics and weight training.	5'10" 200#
Female	40-49	Yes	Weight Watchers, Alli	Yes				2	No	Sporadically, typically all or nothing. If I am in an exercise mood, I typically walk/hike/treadmill or play tennis in the summer. Try to get at least a half hour in at least five times per week.	5' 4", 200 lbs.

Female	20-29	Yes	I've been on diets - but not a fad diet	Yes				Yes	3-6 times per week. Cardio, weight training, spinning, and yoga	5' 6" apx 150 (guess i do not weight myself) size 6-8
Female	40-49	Yes	Atkins, Weight Watchers, overeaters anonymous, nutritionist, doctor plans	Yes	5			No	Daily floor exercises. 400 straight Leg lifts with arm lifts (2lb weights on each arm) in various positions. 100 bent knee leg lifts with arm lifts. Stretching exercises. Half-crunch "holds" with arm lifts (about 5 minutes total in various configurations). I have arthritis and stenosis of the spine, so walking or standing up exercises are harmful to my joints and back.	5'6", 350lbs
Female	40-49	No	Never been on a diet	N/A - Never been on a diet plan				Yes	Yes, at least 5 to 6 days a week. Three days of cardio and three days of lifting weights and machines.  Also include power lifting, agility, speed work, and core strength training.	140, 5 Feet, 7 Inches
Male	40-49	Yes	I've been on diets - but not a fad diet	Yes				Yes	Elliptical trainer 55 mins per day, 3 - 5 times per week	155 lbs 71"
Female	60-69	Yes	Weight Watchers	Yes				No	Walking. Daily in	131, 5'4"

											good weather (30-60 min). 3 times per week on treadmill during winter (30 min).	
Male	60-69	No	Never been on a diet	N/A - Never been on a diet plan						Yes		150 lbs 5'9"
Male	30-39	Yes	Atkins	Yes	4					No	Once or twice a week	5' 11", 185 lbs
Female	50-59	Yes	Weight Watchers, Own regimen	Yes						No	No but know I should.	
Female	30-39	Yes	Atkins, South Beach Diet, I've been on diets - but not a fad diet	Yes	4	4	3		3	Yes	Yes. Once a week. Running and Yoga	130lbs , 5'4"
Male	30-39	No	Never been on a diet	N/A - Never been on a diet plan						Yes	I exercise nearly every day (probably 5 days a week on average). I generally do weight lifting for 40-50 minutes, and then cardio for 30-40 minutes. Cardio is a mix of running, elliptical machine, or stationary bicycle.	6'0", 175 lbs.
Female	30-39	Yes	Weight Watchers	Yes						Yes	Try to exercise four times a week. Combination of kickboxing and running.	5"8' 186 pounds
Female	40-49	Yes	Weight Watchers	Yes						No	Walking	
Female	20-29	Yes	I've been on diets - but not a fad diet	Yes					5	Yes	During the diet period, 3-4 times a week. I lost around 15 pounds between February and September by eating	126lbs - 5'7"

											carefully and exercising (elliptical, abs, mild weight training, and some fun classes at gym). I then came down to a maintenance schedule of 1-2 times a week and didn't put back any weight. Over the last 1-2 months, I haven't exercised at all and have probably put back 2-3 pounds.	
Male	50-59	Yes	I've been on diets - but not a fad diet	Yes						No	weights;3x/wk physical labor, cutting cordwood, land clearing etc	245#/ 6-0"
Female	50-59	Yes	Atkins, Weight Watchers	Yes	0					No	Walking (3-4 hours/week), canoeing (once a month in the winter, 4-8 times a month in the spring, summer and fall)	5'2", 144 lbs
Female	40-49	Yes	Atkins, Weight Watchers, Alli	Yes	3	1	2		1	No	1 hour elliptical - 4 tmes a week and 1 hour of scuplting toning class 3 times a week	156 lbs, 5'2"
Male	30-39	No	Never been on a diet	N/A - Never been on a diet plan						No	I play racquetball every couple of weeks or so and try to walk instead of drive when I can.  Other than that, being a grad student, I'm	185lbs, 5'11"

													pretty sedentary.	
Male	20-29	No	Never been on a diet	N/A - Never been on a diet plan								Yes	Not as often I would like, but I would like to try to go to the gym 2-3 times a week. I like to do cardiovascular exercises in order to keep a healthy heart.	5'11" - 160 lbs
Female	40-49	Yes	Weight Watchers	Yes								No	Walking or elliptical machine some weights- all infrequently-once or twice a week.	5'3" 170lbs
Male	20-29	No	Never been on a diet	N/A - Never been on a diet plan								Yes	Varsity rower	6'3" 175lb
Male	19 and under	Yes	I've been on diets - but not a fad diet	No	0	0	1	0	0	0		Yes		
Male	20-29	Yes	I've been on diets - but not a fad diet	Yes								Yes	yes. 6 days a week, weight lifting for bulking phase during cutting phase, 6 days a week weight lifting, plus 3-4 cardio sessions	5 feet 10; 180lbs
Male	20-29	No	Never been on a diet	N/A - Never been on a diet plan								Yes	3 to 4 times per week, mostly weightlifting for sports, small amount of running	178lbs, 5-11
Female	20-29	Yes	I've been on diets - but not a fad diet	Yes								No	yes, but only when I have time. And not as frequently as I used to because I am injured	165 lb, 5'5"

Male	20-29	No	Never been on a diet	N/A -					Yes	Yes, Squash /	5'10, 180lbs
				Never						Racquetball regularly,	
				been on a						lifting 3-4 times a	
3.7.1	20.20			diet plan			-		**	week	514.011.4.50.11
Male	20-29	No	Never been on a diet	N/A -					Yes	I exercise a couple	5'10" 150 lbs
				Never						hours a week.	
				been on a							
	10.1			diet plan							1004
Female	19 and	No	Never been on a diet	N/A -		4			Yes	3 times a week.	180 lbs and 5'8"
	under			Never						regular cardio and	
				been on a						lifting	
				diet plan							
Female	19 and	Yes	Atkins, I've been on	Yes	2			4	No	Sometimes. I use the	5'7", 200lbs
	under		diets - but not a fad diet							elliptical or the	
										treadmill.	
										Occasionally I lift	
	1									weights.	
Male	20-29	No	Never been on a diet	N/A -					Yes		5 foot 9 165
				Never							pounds
				been on a							
	20.20			diet plan							
Male	20-29	Yes	I've been on diets - but	Yes				3	No	Not currently.	180lb, 5'11"
	1		not a fad diet								
Male	20-29	No	Never been on a diet	N/A -					Yes	normally I run 3 miles	150 lbs 5'10'
				Never						times a week but I am	
				been on a						currently injured.	
				diet plan							
Male	19 and	No	Never been on a diet	N/A -					Yes	Fencing for 1.5 hrs.	5'9" 145 lbs
	under			Never						twice a week	
				been on a							
				diet plan							
Male	20-29	No	Never been on a diet	N/A -					Yes	Yes. 30 min day of	140, 5'8"
				Never						cycling with another	
				been on a						10 min of upper body	
				diet plan						strength exercise.	
Male	19 and	No	Never been on a diet	N/A -					Yes	Rarely. Went to the	6'1", 155lbs.
	under	1		Never						gym over the summer	

				been on a diet plan						once a day for a half an hour for weight training, not weight loss.	
Female	19 and under	Yes	I've been on diets - but not a fad diet	Yes							
Female	20-29	Yes	Just eating a lot less and working out a lot more	Yes				3	No		
Male	60-69	No	Never been on a diet	N/A - Never been on a diet plan					Yes	Walking.	175; 6'
Female	19 and under	No	Never been on a diet	N/A - Never been on a diet plan		4			No	No	120, 5'2"
Male	19 and under	No	Never been on a diet	N/A - Never been on a diet plan					Yes	exercise 4-5 times a week. weightlifting and basketball	6' 160 lbs
Female	20-29	Yes	I've been on diets - but not a fad diet	Yes					No	Not much, usually just the running around that I have to do on campus everyday	147 pounds, 5'4"
Male	20-29	No	Never been on a diet	N/A - Never been on a diet plan					Yes	Yes, somewhat regularly. I run twice a week, usually about 3.5 miles each day, and play intramural sports.	5'10", 155 pounds
Female	20-29	Yes	I've been on diets - but not a fad diet	Yes					No	I excericse when i can, or my schedule allows me to.  I do elipticle, stationary bike, and weights	130lbs. 5'6"

Female	20-29	Yes	I've been on diets - but not a fad diet	Yes				Yes	I exercise for about 30 minutes 6 days a week, generally cardio and some strength training.	5'8" 135lbs
Female	20-29	No	I've been on diets - but not a fad diet	N/A - Never been on a diet plan		5		Yes		110, 5'4"
Female	19 and under	Yes	I've been on diets - but not a fad diet	Yes				Yes	Everyday I run at least 4 miles, sometimes I do the bike for a half hour too.	125, 5'2"
Female	19 and under	No	Never been on a diet, I've been on a weight gain type thing- it involved drinking a lot of Boost	N/A - Never been on a diet plan		4		Yes	I dance (ballroom) three days a week, 1-2 hours of lessons, plus dancing socially once a week and usually on weekends.	Weight: 130ish, Height: 5'7"
Male	20-29	No	Never been on a diet	N/A - Never been on a diet plan				Yes	Pushups/situps and stretches every night. Weight training when I have time.	155 lbs, 5'11"
Male	19 and under	No	Never been on a diet	N/A - Never been on a diet plan				Yes	about 40 minutes every weekday, cardio and strength building alternately	6' .5" 165lbs
Male	19 and under	No	Never been on a diet, I've been on diets - but not a fad diet	Yes				Yes	Yes, 6 hrs per week. 45 min of cardio, and 30 min of weightlifting	165 cm, 65 kg
Female	20-29	No	I've been on diets - but not a fad diet	Yes		5		Yes	Every day - either 2 hours of swimming or running. I also weight lift.	
Female	20-29	Yes	Atkins, I've been on diets - but not a fad diet	Yes	4			Yes	Yes, Im now on the Varsity Swim team for	136 5'6"

Female	20-29	Yes	I've been on diets - but	Yes					No	WPI, so about 2 hours a day of swimming and 1 hour a day of weight lifting Run, go to the bikes,	5'4" 160lbs
Female	19 and under	No	not a fad diet  Never been on a diet	N/A - Never been on a diet plan		4			No	swim in the summer  Before college I exercised every day. Since I came to college I only exercise about once every two weeks. I run, do the elliptical, or take a dance class.	5'7" 150lbs
Male	20-29	No	Never been on a diet	N/A - Never been on a diet plan					Yes	During the summer I would bike 10 miles a day (about an hour).  Now I do 10 miles each week. It's not about the exercise though, it's about the food: not-in-a-box, organic, and mostly vegetables. It's about eating only until you're not hungry. It's about eating on purpose. It's about lifestyle.	124 lbs, 5 foot 8 inches
Female	20-29	Yes	South Beach Diet	Yes	3	3			No	,	
Female	20-29	Yes	I've been on diets - but not a fad diet	Yes					2 No	Walking, 30 minutes a day	~140, 5' 6"
Female	19 and under	No	Never been on a diet	N/A - Never been on a diet plan		4			No	Sometimes, about a half hour to an hour, bike, weights	163, 5' 1"

Male	19 and under	Yes	I've been on diets - but not a fad diet, wrestling diet	Yes				Yes	Yes. 50 minute run every morning. plus workout at night which lasts 1-1.5 hours.	140lb 5 foot 7 inch
Female	19 and under	No	Never been on a diet	N/A - Never been on a diet plan		4		Yes		150, 5'8"
Female	20-29	Yes	Never been on a diet	N/A - Never been on a diet plan	0			Yes	Exercise 5-7 times a week  3-4 times a week I run on the elliptical on high resistance for 40 minutes  2 times a week I walk for an hour or play basketball for an hour	110 pounds, 5'1"
Male	20-29	No	Never been on a diet	N/A - Never been on a diet plan				No		6'6" 280
Female	19 and under	No	Never been on a diet	N/A - Never been on a diet plan		4		Yes		
Female	19 and under	Yes	I've been on diets - but not a fad diet	Yes				Yes	Not really. I used to exercise more by playing sports. Now I occasionally go to the gym and do the bike, and lift weights. If it's nice outside I'll play frisbee and outside	150 lb 5'4"

									games with friends.	
Female	19 and under	No	Never been on a diet	N/A - Never been on a diet plan	4			Yes	Yes. WPI crew team. If not doing crew, do running on myself.	50 kg 1.66m
Female	20-29	Yes	I've been on diets - but not a fad diet	Yes				No	yes, not alot, running sometimes	5 feet, 5 inches, 145 lbs
Male	19 and under	No	Never been on a diet	No				No	i try for three times a week Muscular endurance	6 foot 160
Female	19 and under	Yes	Weight Watchers, I've been on diets - but not a fad diet	Yes			2	No		
Female	20-29	No	Never been on a diet	N/A - Never been on a diet plan	5			Yes	I exercise when I have the time. When I am not busy I usually exercise about 2-3 times a week for 20-30 mins. I do aerobic exercises.	110, 5'1"
Female	19 and under	No	Never been on a diet	N/A - Never been on a diet plan	4			Yes	Yes, about an hour + a day, I run distance with track	112 lbs, 5 ft 5.5 in
Female	20-29	No	Never been on a diet	N/A - Never been on a diet plan	5			No	Yoga, twice/week	163cm/66kg
Female	20-29	No	Never been on a diet	N/A - Never been on a diet plan	5			No	3 times a week for an hour. Running and weight lifting	5'11" 140 lbs
Male	20-29	No	Never been on a diet	N/A - Never been on a diet plan				Yes	Ultimate frisbee a couple times a week. Snowboarding in winter. Jogging.	140lbs, 5'10"

Female	20-29	No	Never been on a diet	N/A - Never been on a diet plan		5			No		
Male	20-29	Yes	I've been on diets - but not a fad diet	Yes					Yes	I exercise a lot.  I run 2-3 miles on my lifting days, and 4-6 miles on my non-lifting days.  My lifting and non-lifting days alternate.	148lb, 5'7"
Female	20-29	Yes	Weight Watchers, I've been on diets - but not a fad diet	Yes					2 No	No i do not because of my busy schedule I do not have time to and when I do have time I am too tired and unmotivated to exercise. When I do exercise, I run and do abs.	5 foot 2 inches 145lbs
Male	19 and under	No	Never been on a diet	N/A - Never been on a diet plan					No	I do fifty push ups a night.	5'9" 160 lbs
Male	19 and under	No	Never been on a diet	N/A - Never been on a diet plan					No	yes, not enough	180 lbs, 6'2"
Male	19 and under	Yes	Zone	Yes				0	Yes		
Male	19 and under	No	Never been on a diet	N/A - Never been on a diet plan					Yes	I jog basically every day for an hour or so. Sometimes (1 to 2 times a week) I lift weights.	135 lb, 5'8"

Male	20-29	No	Never been on a diet	N/A -				Yes	I exercise 4 times per	180lbs, 6ft 2 in
				Never					week for an hour each	
				been on a					time. I mostly do	
				diet plan					calisthenics or low	
									weight, high rep	
									exercises	
Male	60-69	No	Never been on a diet	N/A -				No	Infrequently. Hiking.	6'0" 185 lb.
				Never					Gardening. Wood	
				been on a					splitting. Biking.	
				diet plan						
Male	19 and	No	Never been on a diet	N/A -				Yes	Some biking in	5' 8". 180 lbs
	under			Never					summer	
				been on a						
				diet plan						
Female	19 and	Yes	I've been on diets - but	Yes			3	No	does dragging a	I would but I
	under		not a fad diet						bookbag full of	dont' remember
									textbooks up the hill	them
									count?	
Female	19 and	Yes	I've been on diets - but	Yes				Yes	I exercise often, I go	140 5'7"
	under		not a fad diet						to the gym, play field	
									hockey for my school,	
									play intramurals, club	
									lacrosse, tennis, and I	
									ski and enjoy outdoor	
									activities.	
Male	20-29	No	Never been on a diet	N/A -				Yes	I used to do marching	5'9" and 130lbs
				Never					band, but had to stop	
				been on a					due to a foot injury.	
				diet plan					Now, I just settle for	
									playing on a drumset	
									regularly. It's intense.	
Male	19 and	No	Never been on a diet	N/A -				Yes	Yes.Not Sure.	5'8" 150 lb
	under			Never					Recreational	
				been on a					Sports/Running.	
				diet plan						
Female	20-29	Yes	Weight Watchers	Yes				No		

Male	20-29	No	Never been on a diet	N/A - Never been on a diet plan									Yes	Not enough, usually hill climbing (a.k.a getting to class) and occasional bicycling when I'm home	6'0", 135 lbs
Male	20-29	No	Atkins, South Beach Diet, Weight Watchers, Jenny Craig, Nutrisystem, Alli, Zone, Never been on a diet, I've been on diets - but not a fad diet	Yes	5	5	4	5	5	5	5	5	No		
Female	20-29	No	Never been on a diet	N/A - Never been on a diet plan			5						Yes	Yes, approximately 4 times a week, Cardio and weights	112 lbs, 5ft 4"
Male	20-29	No	Never been on a diet	N/A - Never been on a diet plan									Yes	No, i do not exercise.	6 ft 160
Male	20-29	Yes	I've been on diets - but not a fad diet	Yes								3	No	On a varsity athletic team	5'9, 197lbs
Female	19 and under	Yes	South Beach Diet	Yes		4	3						No	yes, half an hour of cardio per day	130lb, 63 inches
Male	19 and under	No	Never been on a diet	N/A - Never been on a diet plan									Yes	Yes, workout in the gym around three times a week and play two varsity sports for WPI	6'3" 185 pounds
Female	19 and under	Yes	I've been on diets - but not a fad diet	Yes								4	No	I currently exercise over 7 hours a week through dancing. I also try to fit in time for going to the gym.	150, 5 foot 4 inches
Female	20-29	No	Never been on a diet	N/A - Never been on a			5						Yes	I run cross country and track, so that's about an hour or two of	140 lbs, 5'10"

				diet plan						exercise six days a week.	
Male	19 and under	No	Never been on a diet	N/A - Never been on a diet plan				Y	es	1.5 hours a day of running, lifting 2 - 3 times a week along with core 2 - 3 times a week	6'4" 158lbs
Male	20-29	No	Never been on a diet	N/A - Never been on a diet plan				Y	es	Not as much as I should.	6'1" 279lbs
Male	20-29	No	Never been on a diet	N/A - Never been on a diet plan				Y	es		150 pounds, 5'7"
Female	20-29	Yes	Weight Watchers, I've been on diets - but not a fad diet	Yes				N	О	1hr a day of any of the following (except during finals week) running yoga rowing elliptical aerobic workout video	169lbs 5' 7"
Female	20-29	Yes	Atkins	No	4			N		Some, just walking and jogging a few times a month.	5'6", 270lbs
Female	20-29	Yes	I've been on diets - but not a fad diet	Yes				N	(o	I do not go out of my way to exercise at a gym, but I make sure to make walking and biking part of my daily routine. I also swim and dance sometimes.  As a note, I do not know if this affects my relevance in this	5'5" 220 lbs

										survey, but my weight problems are due to an underactive thyroid. I've only recently begun taking medication for it, and we're still trying to work out the dosage, so my weight doesn't necessarily reflect how I eat and act.	
Female	20-29	Yes	South Beach Diet	No	1	1			No	not usually. basically just the normal walking to classes and the store and stuff like that. I dance alot on the weekends but i dont do structured exercise while in college	ht: 5'4" wt: 130
Male	20-29	No	Never been on a diet	N/A - Never been on a diet plan					Yes	yes, swimming and running when i can	6 foot 2 inches. 140 lbs
Female	19 and under	No	Never been on a diet	N/A - Never been on a diet plan		4			Yes	I run if I havae free time. And I play on the Women's basketball team so it's about 2 hours of exercise 6 times a week.	5'5" and 150 lbs
Male	20-29	Yes	I've been on diets - but not a fad diet	Yes				5	Yes	I exercise an hour or hour and a half a day. I run for 3-7 miles and do pushups and sittups.	215, 6' 5"
Male	19 and	No	Never been on a diet	N/A -					Yes	I am an athlete. I try to	150 lb 5' 9"

Female	under 20-29	No	Never been on a diet	Never been on a diet plan			5						No	exercise at least 4 times a week though that varies depending on my class load. I try to mix cardio and strength training. I also pole vault. Yes. Two hours a day. 1.5 cardio and .5	170, 6'1
				been on a diet plan										lifting.	
Female	20-29	No	Never been on a diet	N/A - Never been on a diet plan			80						Yes	I do not exercise.	5 feet 6 inches 135 lbs
Male	50-59	No	Never been on a diet	N/A - Never been on a diet plan									Yes	Yes. 3 days per week, about 30 minutes each. Exercise bicycle and stretching exercises.	5 feet, 11 inches. 176 lbs.
Male	20-29	No	Never been on a diet	N/A - Never been on a diet plan									Yes	Yes, running, 50-80 miles a week.	143, 5' 11"
Male	19 and under	No	Never been on a diet	No	0	0	0	0	0	0	0	0	Yes		74 in 165 lbs
Female	19 and under	No	Never been on a diet	N/A - Never been on a diet plan			4						Yes	yes- i"m a member of the fencing club-so 2 1.5hr practices a week	5'6" ~150lbs
Female	19 and under	Yes	I've been on diets - but not a fad diet	Yes									No	3x a week treadmill and weight lifting	5'3", 158lbs
Female	19 and under	No	Never been on a diet	N/A - Never been on a diet plan			4						No	J	

Male	19 and	No	Never been on a diet	N/A -						Yes		
	under			Never								
				been on a								
				diet plan								
Male	19 and	No	Never been on a diet	N/A -						Yes	Yes, a few times a	150 lbs and 6
	under			Never							week, upper body,	feet
				been on a							cardio, flexibility	
				diet plan								
Female	20-29	No	Never been on a diet	N/A -		181				No	i try to go running	150 - 5'4"
				Never							everyday though	
				been on a							school work has not	
				diet plan							allowed it for the past	
											couple weeks.	
Female	19 and	Yes	I've been on diets - but	Yes						No	I do not really exercise	140, 5' 4"
	under		not a fad diet								anymore, but I used to	
											run a lot. I miss it, but	
											I just do not feel like I	
											have time for it	
				1							anymore.	
Male	20-29	No	Never been on a diet	N/A -						Yes	Minimally. Walking	130lbs, 5'9"
				Never							counts, right? I used to	
				been on a							run CC, but have	
				diet plan							become a lazy slob	
											since. A skinny lazy	
F 1	10 1	***	YI 1 II II I	***						* 7	slob, mind you.	100 11 51611
Female	19 and	Yes	I've been on diets - but	Yes						Yes		120 lbs 5'6"
E1-	under 19 and	No	not a fad diet  Never been on a diet	N/A -						V		160 lbs 5 ft 7
Female		No	Never been on a diet			4				Yes	not often enough.	
	under			Never							tough being in	in
				been on a							Stoddard and being	
F1.	20.20	NT.	N	diet plan N/A -						<b>X</b> 7	busy gym is far	510 110
Female	20-29	No	Never been on a diet	N/A - Never						Yes	Not much at all	5'2, 110
				been on a								
Male	20-29	Yes	Never been on a diet,	diet plan Yes					1	Vac	man 2 milas a agur-1	150 lbs 5 fost
waie	20-29	ies	I've been on diets - but	res					4	Yes	ran 2 miles a couples	150 lbs, 5 foot
			i ve been on diets - but								times a week	10

			not a fad diet								
Female	20-29	Yes	I've been on diets - but not a fad diet	Yes					Yes	Nope, I do not exercise at all except for walking up the hill several times daily.:)	5'3.5", 127 lbs
Female	20-29	No	Never been on a diet	N/A - Never been on a diet plan					Yes	Yes, play ultimate frisbee several times a week, jog on treadmill several times a month	170lbs 5'9"
Female	20-29	Yes	Atkins, Weight Watchers, I've been on diets - but not a fad diet	Yes	3			2	No	I play rugby, exercise about an hour a day in the gym in the off season. Mix of cardio and weights.	5'8" 200 lbs
Male	20-29	No	Never been on a diet	Yes					Yes	Yes Right Now 3 times a week. Most times 5-6 times per week Weight Lifting w/ HIIT (High intensity Training)	183 6'1
Female	19 and under	Yes	Weight Watchers, I've been on diets - but not a fad diet	Yes					No	Ū.	
Male	20-29	Yes	My own diet	Yes				5	Yes	Yes. About 5-10 hours a week. Running, biking, weightlifting.	183 lbs, 6'1"
Female	19 and under	No	I've been on diets - but not a fad diet, I guess you can say that I've been on a diet, but it's more of a diet to help me eat healthily, rather than lose weight.	Yes		4		3	Yes	Yes, I exercise when I have the time. I'm very busy with school so unfortunately I do not find very much time on my own to exercise, but this term I scheduled two physical education classes (Swimming for	I am about 103 lbs, and 5'3".

								Fitness; Mat Pilates) to help me exercise regularly again. If I do exercise on my own, it is typically running.	
Female	19 and under	No	Never been on a diet	N/A - Never been on a diet plan	4		Yes	Yes, I walk up and down the hill multiple times a day	89, 5'2"
Male	19 and under	No	Never been on a diet	N/A - Never been on a diet plan			Yes	Varsity cross country and varsity track I run around 60 miles per week	145lbs 5ft 9in
Male	19 and under	No	Never been on a diet	N/A - Never been on a diet plan			No	I walk two miles on the treadmill about once a week.	5'6" - 160 lbs
Male	20-29	No	Never been on a diet	N/A - Never been on a diet plan			Yes	about 2-3 hours/day Rowing machine, weights, rowing, running	6'4", 190 lbs
Male	19 and under	No	Never been on a diet	N/A - Never been on a diet plan			Yes	I exercise about twice a week, although I plan on going more often when we come back for Christmas. I do about a half hour of cardio and then about 45 minutes of weights	6 feet, 150 pounds
Female		Yes	I've been on diets - but not a fad diet	Yes			Yes	Short walk every day of the week. Excercised at the gym 3 days a week.	120 5'3
Male	20-29	No	Never been on a diet	N/A - Never been on a diet plan			Yes	Not especially. Walking to campus from my apartment and back a few times a	5'11" 130

									day (probably totals around half a mile each day).	
Male	20-29	Yes	Personal Diet	Yes			5	Yes	When I was training, about 15 hours a week. Kind of busy now that I'm in grad school, but about 3 hours now.	180 lbs, 6'
Male	19 and under	No	Never been on a diet	N/A - Never been on a diet plan				Yes	either bike or run at least 3 times a week	180 lbs, 6'2"
Male	19 and under	No	Never been on a diet	N/A - Never been on a diet plan				No	I try and exercise everyday but when it is late in the term it is reduced significantly. I try and do some cardio, strength training, and playing sports like basketball.	150, 5'5
Female	19 and under	No	Never been on a diet	N/A - Never been on a diet plan	4			No	no. sometimes sit ups	125, 5'6"
Male	19 and under	No	Never been on a diet	N/A - Never been on a diet plan				Yes	I'm a member of the track team, and typically spend 1-3 hours exercising per day.	5'10" and 148 pounds
Male	20-29	No	Never been on a diet	N/A - Never been on a diet plan				Yes	Yes, I lift weights 3 times a week	5'4", 120 lbs
Female	19 and under	Yes	I've been on diets - but not a fad diet	Yes				Yes	Dancing/ Aerobic exercices/running, total of about 8 hours a week	5 feet and 4 inches, 120 pounds

Male	50-59	Yes	South Beach Diet	Yes		0	1						No	Yes. 3-4 times a week. Walk on treadmill.	210 lb, 5' 11"
Male	19 and under	No	I've been on diets - but not a fad diet	Yes	4	2	2	2	3		5	4	Yes	I walk and run about 2 or 3 times a week.	165 lbs., 5'10"
Female	20-29	Yes	I've been on diets - but not a fad diet	Yes								4	Yes	yes. Everyday. cardio + weights	1.7m 72.6kg
Female	20-29	No	Zone	Yes	2	1	1	0	0	0	4	0	No	I exercise every couple of weeks doing construction and other work around that house. I have an elliptical, but it is currently broken. When it was working, I used it a few times a week. The parts just came in to fix it, so it should be back up and running soon:)	5'5", 150lbs
Female	19 and under	Yes	I've been on diets - but not a fad diet	Yes									No	yes, I do a lot of cardio such as jogging and using the elliptical as well as doing some conditioning exercises	135, 5'2
Female	19 and under	No	Never been on a diet	N/A - Never been on a diet plan			5						No	I play a varsity sport at wpi	133lb and 5feet4inches
Female	19 and under	No	Never been on a diet	N/A - Never been on a diet plan			5						Yes	Only walking up and down the library stairs twice a day to class.	5'3" 100lbs
Male	19 and under	No	Never been on a diet	N/A - Never been on a diet plan									Yes	Yes, I play ultimate frisbee, ride my unicycle or bike fairly often, and play ping- pong. That's pretty	145 lbs., 6' 2"

Male	20-29	No	Never been on a diet	Yes	3				Yes	much it. The only real dietary thing I do is I do not drink any carbonated beverages, but that's more of a personal preference thing then health related.  play soccer 2-3 times a	175 lbs, 5'10"
Maic	20-29	140	Never been on a diet	105	3				Tes	week. swim twice a week.	173 108, 3 10
Male	19 and under	No	Never been on a diet	N/A - Never been on a diet plan					Yes	Yes, lot of walking, nothing else regular	175 lb. 5' 9"
Female	19 and under	No	Never been on a diet	N/A - Never been on a diet plan		5			No	A bit. Marching Band, I like to swim. No real official exercise, since I do not swim often enough. I do not really have time.	5'7", 150 lbs.
Male	19 and under	No	Never been on a diet	N/A - Never been on a diet plan					Yes	I'm on WPI's varsity track team: 2-5 hours of running, lifting, and stretching every day; 50 miles of running a week	5'10" 140lbs
Male	20-29	No	no	N/A - Never been on a diet plan					Yes	yes. about 3 times per week in B term, play roller hockey once a week and swim twice a week	169, 6 feet 2 inches
Male	19 and under	Yes	I've been on diets - but not a fad diet	Yes					No	Running, weight lifting and boxing	68", 165 lbs
Male	19 and under	No	Never been on a diet	N/A - Never					Yes	I exercise every few days, doing push ups	145 lbs 6 feet

				been on a diet plan										and ab work outs. I occasionally throw in some curls and other arm workouts, but not often enough.	
Male	60-69	Yes	Weight Watchers	No									No	Just walk the dog and walk to school half the time- about 10 minutes away.	5 ft 9 in 220lbs
Female	20-29	Yes	I've been on diets - but not a fad diet	Yes								3	No	Used to do 30-40 min on the treadmill or elliptical 3-4 times a week. Haven't been doing it recently, but I plan to get back into it soon.	5'2" 125 lbs
Male	20-29	Yes	I've been on diets - but not a fad diet	Yes									No		5'10", 240 lbs.
Female	19 and under	Yes	I've been on diets - but not a fad diet	Yes								2	No		
Male	20-29	No	Never been on a diet	N/A - Never been on a diet plan									Yes	I play basketball all the time. I do not work out much during the school year because of the time restrictions but I do in the summer.	5'11 145lbs
Male	19 and under	Yes	Never been on a diet, I've been on diets - but not a fad diet	Yes									Yes	yes, i try to exercise 3-4 times a week. I go to the gym and lift weights, run, erg and play basketball	175 lbs. Height: 5-9
Male	20-29	No	Never been on a diet	N/A - Never been on a diet plan	0	0	0	0	0	0	0	0	Yes	Yes, cycling and running. Your weight is depended on your lifestyle. Diets are stupid because once	168lbf 6ft

								your off them you go back to you regular eating habits (lifestyle) and you gain that weight back. So the answer is permanently change your eating habits or increase your daily acitivty or both.	
Male	20-29	No	Never been on a diet	N/A - Never been on a diet plan			Yes	Four times a week, Weight lifting, practice	250, 6ft
Male	20-29	No	Never been on a diet	N/A - Never been on a diet plan			No		191 and 5'10"
Female	20-29	No	Never been on a diet	Yes			Yes	I try to work out four to five days of week doing at least 40 minutes of cardio and 20 minutes of abs and upper body. I like running, doing the elliptical, stairs, crunches, push-ups, and lunges.	155, 5'9"
Female	19 and under	No	Never been on a diet	N/A - Never been on a diet plan	5		Yes	I used to run every day for about 30 minutes. Nowadays too busy to do any excercise	5'1, 120 lbs
Female	19 and under	No	Never been on a diet	N/A - Never been on a diet plan	5		No	I usually exercise about 40 minutes weekdays on the stairmaster machine, the bike machine, or treadmill while I am at	155, 5'2"

Female	20-29	Yes	Atkins, Weight	Yes	3			Yes	WPI. When I am home I go to the YMCA and do various cardio and spinning classes there weekdays ranging from 45 minutes to 1 hour and 15 minutes.	
			Watchers							
Male	19 and under	No	Never been on a diet	N/A - Never been on a diet plan				Yes		160 pounds, 5 feet 9 inches
Female	20-29	No	Never been on a diet	N/A - Never been on a diet plan				Yes	I swim twice a week.	5 foot 10, 150 lbs
Female	20-29	No	Never been on a diet	N/A - Never been on a diet plan				Yes	I exercise at least 3 times a week. I usually run, use a stationary bike, and/or lift weights.	130, 5'3
Female	19 and under	No	i just eat in moderation	N/A - Never been on a diet plan		5		Yes	Yes. In field hockey season 6 days a week, average 2hrs a day. Out of season about 3-5 days a weeks 1-2 hrs. 40-60 min cardio, 30-60 min abs and core strengthening.	5'5" 140 lbs
Female	20-29	Yes	Weight Watchers	Yes				No	We go to WPI, I do not know about other students, but I barely have time to hang out with friends, let alone exercise every day, maybe it's just me, I	130-140 lbs, 5'3"

	1		1	I	1	1	I	ı	1	-	ı		1 .1 5 .7	1
													do not know. But I	
													really would like to	
													exercise every day, I	
													just can never seem to	
													find the time. I think	
													it's more effective to	
													focus on working out	
													vigorously and often,	
													running, stretching,	
													lifting, cycling, just	
													being very active, and	
													then eating appropriate	
													foods not to excess. I	
													suppose I'll do that	
													someday but for now	
													I'll have to live with	
													being a bit chubby.	
													01 1 6	
													Oh, and as far as	
													weight watchers goes,	
													yea it's great for losing	
													weight, it totally	
													works, but at least for	
													me, when I'm using	
													my brain a lot,	
													studying and doing	
													projects, I need more	
													food. And I just can't	
													work when I'm hungry	
													because it's so	
													distracting. While the	
													diet itself works, it just	
													wasn't working with	
													my needs as a student.	
Female	20-29	Yes	I've been on diets - but	No							5	No	sometimes, fast	5'0" 130lb
			not a fad diet, 1200										walking, elliptical	
			Calorie diet											

Female	19 and	Yes	I've been on diets - but	Yes			I		5	Yes	My "diet" consisted of	5'5" 133
1 Ciliale	under	108	not a fad diet	1 68						168	small frequent snacks	33 133
	under		not a rad diet								with three small	
											meals. I tried to stay	
											away from processed foods and switched to	
											wheat/whole grains	
											and skim milk. I tried	
											to restrict my Calories	
											to 1300 (my goal	
											weight 130) along	
											with exercise.	
											I ran 5+ miles every	
											day (interval, pyramid,	
											and pace workouts)	
											with three alternating	
											days of weight training	
											as well. I also tried to	
											stay active all day not	
											just during workouts.	
Male	20-29	No	Lots of marijuana, = too	No	1				0	No	I try to get a girlfriend	220 lb, 5'4"
			much food :(								so maybe we can	,
			`								exercise in the	
											bedroom (lol!), but	
											instead I just smoke	
											myself silly and	
											constantly munch on	
											high saturated fat	
											snack food. my life is	
											a deep dark cavern of	
											sadness. I have very	
											high self esteem	
											though so its ok.	
											mough so its ox.	
											Body image these days	
											is causing massive	

												mental illness in all the poor girls out there who suffer emotionally just because of stupid media BS and their genetic makeup. F that right?	
Female	30-39	Yes	Atkins, South Beach Diet, low-fat diet	Yes	3	2	2				No	I have a dog, so I walk 4 times per day: twice for about 30-40 minutes, then twice for 10-20 minutes, very briskly, in a hilly area. I have rheumatoid arthritis, so I have to stick with low-impact forms of exercise.	5'12", 146 pounds
Male	20-29	Yes	Atkins, I've been on diets - but not a fad diet	Yes	3					4	No	Weights 3x a week. No planned cardio workouts but played pickup sports typically twice a week.	5'9" 250lbs
Male	20-29	Yes	I've been on diets - but not a fad diet	Yes						3	No	I lift weights 3 times a week, and have day long sessions of extreme cardio a few times a month.	180 5'9"
Male	19 and under	No	Never been on a diet	N/A - Never been on a diet plan							Yes	No. I plan on doing some over break :-)	6'0" 150lb
Female	20-29	Yes	I've been on diets - but not a fad diet	Yes						4	Yes	Dance class, 3 hours per week Gym on occasion Walking - all the time	5' 5" 140lbs
Female	20-29	Yes	Jenny Craig	Yes				4			Yes	Not much, Just	165lbs, 5' 9"

										walking	
Male	19 and under	No	Never been on a diet	N/A - Never been on a diet plan					Yes	Play football, work out, play sports for fun (basketball, tennis	5 foot 10 170lbs
Female	20-29	Yes	Weight Watchers, I've been on diets - but not a fad diet	Yes					Yes	I have begun exercising for at least a half hour at least 5 days per week. This usually includes a run on an Eliptical machine, and then pushups and crunches if i feel up to it (usually i do them).	~160 lbs 5'4"
Male	20-29	No	Never been on a diet	N/A - Never been on a diet plan					Yes	Yes, mid distance running and some weightlifting once a week.	180lbs 6ft 3in
Male	20-29	Yes	I've been on diets - but not a fad diet	Yes					Yes	Yes. 15 Hours a week. Brazilian Jiu Jitsu, kettlebells, interval conditioning	5' 9", 150 lbs
Female	20-29	No	Never been on a diet	N/A - Never been on a diet plan					Yes	Not on regular basis. I go to the gym from time to time; using mostly threadmill and stairmaster	101 pounds, 5ft 6in
Male	20-29	No	Never been on a diet	N/A - Never been on a diet plan					Yes	Not much	165 lb, 5'8
Female	19 and under	No	Never been on a diet	N/A - Never been on a diet plan		5			Yes	yes. a couple hours a week. i run a bit, some push ups and sit ups.	5'9" and 135lbs

Female	19 and under	Yes	I've been on diets - but not a fad diet	Yes					Yes	Yes, I take gym classes every term so I exercise at least twice a week. In addition, I try to go rock climbing a few hours a week when I get the chance.	133 lbs, 5 ft 7 in
Female	20-29	No	Never been on a diet	N/A - Never been on a diet plan					Yes		5'6" 130
Male	60-69	Yes	I've been on diets - but not a fad diet	Yes				4	Yes	Walking plus other exercise.	
Male	20-29	Yes	I've been on diets - but not a fad diet	Yes				5	Yes	I try to work out ~3 times a week. Push ups/pull-ups/ab exercises. Play some basketball/pick up games	155lb 5'7"
Female	19 and under	No	I've been on diets - but not a fad diet	Yes		5			Yes	Depends on time and season. I play soccer so in the summer and fall I get a lot more than in winter and spring. I stay in shape over winter by skiing	135, 5'6"
Female	20-29	Yes	South Beach Diet, I've been on diets - but not a fad diet	Yes	3	3		3	Yes	Yes, 5 times per week, usually 1 hour of cardio each day either running outside or on the eliptical at the gym.	5"1' tall 112 lbs.
Male	19 and under	No	Never been on a diet	N/A - Never been on a diet plan					Yes	I exercise between 1 and 5 hours a day I am a member of the mens varsity crew	6'4" 215lbs

										team and the alpine ski team I also run, lift, mountain bike, and swim	
Male	19 and under	No	Never been on a diet	N/A - Never been on a diet plan					Yes		5'9" 160 pounds
Male	20-29	Yes	I've been on diets - but not a fad diet	Yes					No	Yes, not often enough. ~ 3 hours per week. Tennis, Squash	165 lb, 5' 10"
Female	19 and under	Yes	South Beach Diet, Weight Watchers	Yes	4	3			No	Yes, but not every day. I do elliptical, crunches, Wii Fit, and the bike.	180 5'7
Female	60-69	No	Never been on a diet	N/A - Never been on a diet plan					No	A few times a week I walk for about 20-30 min.  I would like to lose maybe 5-8 lbs.	143 lb 5ft 6 in
										I have, however, always found diets to be ridiculous. I eat healthy and adequately. What I do not get is enough exercisevery hard with my job of sitting	
E1.	10 1	X.	Willeway	V					V	at a computer a lot and working most of 7 d/wk!	50" 1551
Female	19 and under	Yes	Weight Watchers	Yes					Yes	I play a lot of field hockey and run. Probably 5 days a	5'8" 155lbs

Female	20-29	No	Never been on a diet	Yes			No	week for an hour in the offseason. During season its more like 2 hours a day. I dont get the change to exercise	~130 lbs, 5'6"
Male	20-29	Yes	I've been on diets - but not a fad diet	Yes			Yes	At least 3 times a week, either running for about an hour, or if I have studying/reading to do, I use the elipticals in Harrington. Core exercises like sit ups, leg raises, etc	6'2", 175 lbs
Female	19 and under	Yes	Weight Watchers	Yes			No	In the fall I did Colorguard, and would take walks. Now that it's colder, when I have the time to spare, or really need to destress, I'll do some DDR on heavy for around an hour and a half.	5'8" 202lbs
Female	19 and under	No	Never been on a diet	N/A - Never been on a diet plan	5		Yes	3 Varsity sports practicing at least 2 hours a day.	5'4" 130lbs
Female	20-29	Yes	Jenny Craig, Nutrisystem, Zone	Yes			Yes		92lb 5.3ft
Male	20-29	No	Never been on a diet	N/A - Never been on a diet plan			Yes	Yes, About 1 hour a day, mostly road biking or playing sports	6'1" and 140lbs
Female	20-29	No	I've been on diets - but not a fad diet	N/A - Never			Yes	I am a track and field runner I exercise	135, 5'9"

Female	19 and under	No	Never been on a diet	been on a diet plan  Yes		5			No	almost everyday, different types of interval and endurance workouts  I do, when I have time to. In-season i have 2 hour practices 3x a week, off season i generally try to 30 mins of cardio at least 2x a week	140, 5'5"
Male	20-29	Yes	I've been on diets - but not a fad diet	Yes					Yes		#######################################
Male	19 and under	No	I've been on diets - but not a fad diet	Yes					Yes	I swim varsity and excersise intensely 3-4 hours a day	6'1" 167.5 lbs
Male	20-29	No	Never been on a diet	N/A - Never been on a diet plan					Yes	Yes, 4-5 times/week  Pull-ups/push- ups/curl-ups, dips, other calisthenics  occasionally upper body/ lower body w/ weights  run 2-3 times/week, ~12-15 miles/week	165 lbs 5' 11"
Female	20-29	No	Never been on a diet	N/A - Never been on a diet plan					Yes	Cardio, light weights, abs. Once or twice a week usually	5'4", 125
Female	19 and under	Yes	I've been on diets - but not a fad diet	Yes					3 No	running 30 minutes a day (when there is time) weights	5'5 140
Female	19 and	No	Never been on a diet	N/A -		5			Yes	Yes - weightlifting 3X	5'3" - 135 lbs

	under			Never been on a diet plan				a week, softball related activities	
Female	19 and under	No	Never been on a diet	N/A - Never been on a diet plan	5		Yes	I run everyday as a member of the track and field team. I've also gone hiking in the mountains.	105lbs, 5ft
Male	20-29	No	Never been on a diet	N/A - Never been on a diet plan			No	Depends on the time of year. Summer and fall- mostly lifting. End of fall early winter - nothing. Late winter and spring lots of running.	6'5" 265
Female	19 and under	Yes	I've been on diets - but not a fad diet	Yes			No	I play rugby A and D term (about 1 hour of cardio a day). During the winter I climb the library stairs to get to class.	5'6", 195 lb
Female	19 and under	No	Never been on a diet	N/A - Never been on a diet plan	5		Yes	Yes. Every day I run two miles and do sit ups.	5'6, 122lbs
Female	20-29	No	Never been on a diet	N/A - Never been on a diet plan			No	Yes. Usually 2-3 times a week. I dance (partner dances i.e. tango, swing, etc.). Occasionally I will also use exercise machines like treadmills for exercise as well.	180lb, 5ft 11in
Male	20-29	No	Never been on a diet	N/A - Never been on a			Yes	I do not really exercise (go to the gym, go for a run, etc.) but I feel as	150, 5'9"

				diet plan					though I am fairly	
									active between	
									walking to and from	
									campus and other	
									every day activities.	
Female	19 and	No	Never been on a diet	N/A -	5			Yes	NoI pretty much	5'3" 120 lbs
	under			Never					walk up the stairs to	
				been on a					my dorm room =]	
				diet plan						
Female	20-29	No	Never been on a diet	N/A -				Yes	I started excercising	5'8", 140 lbs
				Never					more recently.	
				been on a					Usually it is about 3	
				diet plan					times a week. I	
									generally either run on	
									the treadmill or do the	
									stationary bike. Most	
									of the time I do ab	
									work outs too.	
Female	20-29	Yes	I've been on diets - but	No			4	No	Only minimal exercise	160lbs, 5'4"
			not a fad diet						- walking ~30 minutes	
									per day.	
Female	20-29	No	Never been on a diet	N/A -				Yes	Running, Rock	118lbs 5' 0"
				Never					climbing	
				been on a						
				diet plan						
Male	20-29	Yes	personal diet plan	Yes			5	Yes	Exercise every day.	5'6 at 150 lb
									Running, weight	
									lifting, swimming.	
									Between 30 minutes to	
									1.5 hours. I was on a	
									diet for making weight	
									during wrestling; I	
									wasn't over weight	
Female	19 and	No	Never been on a diet	N/A -	5			Yes	Yes, College Track	115, 5'5"
	under			Never					and XC	
				been on a						
				diet plan						

Female	19 and	Yes	I've been on diets - but	Yes			1	No	Yes. I swim at least	135 Ib, 5' 2"
	under		not a fad diet						ten hours a week and	
									run for about 2 hours a	
									week. Currently I am	
									not "dieting", but I try	
									to eat more fruits and	
									vegetables, get enough	
									protein and limit my	
									carb intake.	
									If this helps with your	
									survey:	
									At one point I thought	
									I was overweight, so I	
									consumed <1500	
									cals/day (went from	
									130 to 116 Ibs) and	
									exercised at least 2	
									hours a day. After	
									going back to a normal	
									diet and exercise	
									routine, my current	
									weight is higher than	
									what my normal	
									weight used to be.	
Male	19 and	No	Just avoid greasy foods	N/A -			3	Yes	I do not exercise as	170 lbs, 6ft
	under			Never					much as I would like	
				been on a					to. When I do, I climb,	
				diet plan					swim, or spar.	
Female	19 and	No	Never been on a diet	N/A -	5			Yes	Yes I exercise daily	I'm 150lbs 5'11"
	under			Never					alternating between	
				been on a					cardio plus abs, and	
				diet plan					lifting plus jumprope.	
Female	19 and	Yes	I've been on diets - but	Yes				No	No I try to when I can,	5'7" and 130 lbs
	under		not a fad diet						for instance this	
									Christmas break I will	
									be. But, it is hard at	

											school with all the homework and stdying. However, if I can I will jog at Alumni or play basketball, along with situps and different muscle building exercises.	
Female	19 and under	No	Never been on a diet	N/A - Never been on a diet plan		5				No	Not enough, besides walking to classes I need to get on the exercise bikes more than once every 2 weeks.	135 pounds, 5'6"
Female	30-39	Yes	Weight Watchers	Yes						No	moderate walking	188lbs, 5'8"
Male	19 and under	No	Never been on a diet	N/A - Never been on a diet plan						Yes	Not really, unless running to classes count. And the PE requirement.	120 lbs., 5' 6"
Male	19 and under	Yes	Weight Watchers, I've been on diets - but not a fad diet	Yes					5	No	Yes. When time permits, 4-5 times per week. Running on treadmill, elliptical, and weight machines.	185, 5'8"
Female	20-29	No	Never been on a diet	N/A - Never been on a diet plan						Yes	Yes. I love rockclimbing, dancing, kendo - do not do any with regularity though	180ish, 5'8"
Male	19 and under	No	Never been on a diet	N/A - Never been on a diet plan						Yes	I run 2 miles everyday and do calisthenics. I'm also a vegetarian.	5'9 145 lbs
Male	50-59	No	Never been on a diet	N/A - Never been on a						Yes	3-5 times per week	#######################################

				diet plan							
Female	19 and under	No	Never been on a diet	N/A - Never been on a diet plan		5			No	I try to do some kind of cardio	5'3" 125 pounds
Male	19 and under	Yes	I've been on diets - but not a fad diet	Yes					3 No	Play Basketball, soccer, hike, run, tennis, and other outdoor actvities	6" 225
Female	20-29	Yes	Never been on a diet, I've been on diets - but not a fad diet	Yes					Yes	Yes. Everyday. Either going to the gym and using cardio equiptment, running outside or swimming laps in a pool	weight= 157 height 5 foot 11 inches
Female	20-29	No	Never been on a diet	N/A - Never been on a diet plan					Yes		150 66inches
Male	19 and under	No	Never been on a diet	N/A - Never been on a diet plan					Yes	Yes, about twice or three times a week. Muscle building	135, 6ft.
Male	20-29	No	South Beach Diet	Yes	4	3			No	Walking/treadmill, not often enough	165 lb., 6'1"
Female	19 and under	No	Never been on a diet	N/A - Never been on a diet plan		5			Yes	Yes: crew practice, 1- 2 hours 5-6 days a week	150 lbs, 5'10"
Female	19 and under	No	Never been on a diet	N/A - Never been on a diet plan		5			No	Gym couple times a month for 2+ hours	190 5'6"
Male	20-29	Yes	Never been on a diet	Yes					No	20-30 minutes on bicycle trainer per day. I'd do it for hours, but	187- 6' 1"

											I do not have time (and it's boring as all hell)	
Female	20-29	Yes	I've been on diets - but not a fad diet	Yes					3	No	Nope.	180 lbs 5'6 feet
Female	19 and under	No	Never been on a diet	N/A - Never been on a diet plan		5				Yes	Yes, at least three times a week. I do mostly cardio workouts with a good portion muscle development.	140lbs 64inches
Female	20-29	Yes	South Beach Diet, Weight Watchers	Yes	3	3				No	I do whenever I can, but not as regularly as I would like. I walk and do various workout videos	5'4" 175
Male	20-29	Yes	I've been on diets - but not a fad diet	Yes						Yes	Running or Lifting depending upon my strength goals	5'11, 183
Male	20-29	Yes	I've been on diets - but not a fad diet	Yes					5	Yes	Yes. I exercise at least 6 days a week and many times twice in one day. I weight train and run.	165 lbs, 5 Ft. 8 in.
Male	50-59	Yes	Count Calories / Count sat fats	Yes						No	Walking. Highly variable from 0 mi/wk to ~15 mi/wk when I'm doing well and have the time.	5' 10" 190 lbs
Female	20-29	No	Never been on a diet	N/A - Never been on a diet plan						Yes		5'3" / 140
Female	19 and under	No	Never been on a diet	N/A - Never been on a diet plan		5				Yes	About an hour a day. Muscle training for physical therapy (hips and thighs to support	105, 5'5"

									knees)	
Male	19 and under	No	Never been on a diet	N/A - Never been on a diet plan			Ye		I exercise, not always regularly. it depends if im involved with a sports team or not. I lift weights every few weeks sometimes more often.	170 lb. 6'1"
Male	19 and under	No	Never been on a diet	N/A - Never been on a diet plan			No		Usually 30-45min 3-5 days a week. Usually biking, push ups, sit ups,	6 feet 4inches 213lbs
Male	20-29	No	Never been on a diet	N/A - Never been on a diet plan			No	О	Swimming once a week, gym workout a couple times a week	185lb, 5ft 9in
Female	20-29	Yes	Weight Watchers	Yes			Ye	es		
Male	20-29	No	Zone	N/A - Never been on a diet plan			Ye		I exercise 6 days a week for 1 - 1 and 1/2 hours each time. I do cardio, and weightlifting	5'10" tall, 185 pounds
Male	19 and under	No	Never been on a diet	N/A - Never been on a diet plan			Ye	es	Sweet Navy workouts	170 lbs 6'1"
Male	20-29	No	Never been on a diet	N/A - Never been on a diet plan			Ye		1hr per day. Running, boxing	5'9" 165
Female	19 and under	Yes	I've been on diets - but not a fad diet	Yes			No		Yes. 30-50 minutes of erging or rowing a day. six days a week.	5'11" 142lbs
Male	19 and under	No	Never been on a diet	N/A - Never been on a			Ye	es	Not much. Maybe once a week if that. Run for a few miles.	130lbs, 5' 9"

				diet plan						Lift for 30-40 min switching up excerises.	
Male	19 and under	No	Never been on a diet	N/A - Never been on a diet plan					Yes	Not enough	6' 145lb
Female	20-29	Yes	Weight Watchers	Yes					Yes	I will get into month- long periods which I will exercise daily and then stop for other month-long periods.	5 ft 2 - 140 lbs
Female	20-29	No	Never been on a diet	N/A - Never been on a diet plan					Yes	MQP won't give me time to exercise, but normally I'd do a few hours of elliptical a week.	115-120lbs, 5'2"
Male	20-29	No	Never been on a diet	N/A - Never been on a diet plan					Yes	fairly regular basis	6' 1" 165
Female	19 and under	No	Never been on a diet	N/A - Never been on a diet plan		5			Yes	Yes, but not often. Generally running or sports.	118 lbs, 5'6"
Female	19 and under	Yes	not eating too much	Yes					Yes	Yes, at least 2 hours a day. I run on the track team (sprinting, mid distance, hurdles).  During the off season I just go on runs from 3-5 miles.	130 lbs, 5'5"
Female	19 and under	No	Never been on a diet	N/A - Never been on a diet plan		5			No	Bike and treadmill, try to three times a week.	140 lbs 5'4"
Male	19 and	No	Never been on a diet	N/A -					Yes	Not really, just have	5'9" and 185 lbs

	under			Never been on a diet plan						fun	
Female	19 and under	Yes	I've been on diets - but not a fad diet	Yes				4	Yes	I do some middistance (3-6 miles) running (2-3 times per week) and I do sprint and lifting workouts on a regular basis (3-5 times per week). I also play a lot of pickup and club sports in my free time.	5'8", 140
Male	20-29	Yes	Atkins, I've been on diets - but not a fad diet	Yes	4				No	ran 3 miles a day 5 days a week	250, 6'2"
Male	19 and under	No	Never been on a diet	N/A - Never been on a diet plan					Yes	Yes. Everyday for approximately an hour. Consisting usually of alternating days of weight training and running.	6'1" 175 pounds
Male	20-29	No	Never been on a diet	N/A - Never been on a diet plan					Yes	Running when I can. Gym twice a week. Dance twice a week or more. Rock climbing on occaision.	6'0" 145 lbs.
Female	20-29	No	Never been on a diet	N/A - Never been on a diet plan					Yes	I try to exercise about twice a week or more, but I often find I do not have the time with my coursework. I usually do a cardio routine focusing on the core muscles and endurance, occasionally with	145-155 lb, 6'-0"

										some light weight training.	
Female	50-59	Yes	I've been on diets - but	Yes	+			1	Yes	Yes. 30 minutes/day.	5'3", 120 lbs.
гешане	30-39	168	not a fad diet	168				4	168		33,120108.
E1-	10	Yes		Yes					NI.	Walking, yoga.	145 lbs, 5'7"
Female	19 and	Yes	Weight Watchers	Yes					No	I do various cardio	145 lbs, 5'/"
г 1	under	37	XXX * 1 , XXX , 1	37			2		NT	several days a week	1.40.512
Female	19 and	Yes	Weight Watchers,	Yes			2		No	1.5 hours a day.	140 5'3
	under		Nutrisystem, I've been							Cardio for an	
			on diets - but not a fad							hour(erging or biking	
			diet							or jogging). Abs every	
										day. Weights every	
										other day.	
										Food is the factor. Did	
										you know that only	
										2% of loosing weight	
										is how much you work	
										out? Excercise alone	
										without caloric	
										restriction does barely	
										anything, but	
										restricting caloric	
										intake always effects	
										weight. Therefore you	
										should probably be	
										asking what I eat	
										I have had more luck	
										loosing weight and	
										sticking too it by being	
										a vegetarian than by	
										trying any mainstream	
										diet. I believe that	
										mainstream diets are	
										just too applicable to	
										the masses who are	
										not varsity athletes.	
Male	50-59	Yes	I've been on diets - but	Yes					Yes	out with dog at least	145 lbs; 5 ft 9 ii
			not a fad diet							twice per day mix of	

		N	N. I. W.							walking and running.use stairs as much as possible.park at a distance from stores and walk.walk to downtown and other locations rather than drive.	
Male	19 and under	No	Never been on a diet	N/A - Never been on a diet plan					Yes	Rarely	6'8" 150 pounds
Female	50-59	Yes	Atkins, Weight Watchers	Yes	3				No	Yes. Mostly walking whenever I can.	5'5", 150 lbs
Male	19 and under	No	I've been on diets - but not a fad diet	Yes					Yes		5'11" and 185
Female	20-29	Yes	I've been on diets - but not a fad diet	No					Yes	I play racketball once a week	107lb 5'1"
Female	19 and under	Yes	I've been on diets - but not a fad diet	Yes				2	No	Very on and off. Some months, it's multiple times a week. Some months, it's once or twice in the entire month. Elliptical, stationary bike, jogging.	155lbs, 5'8"
Male	20-29	Yes	I've been on diets - but not a fad diet	Yes					No	Weight room (weight lifting)  Jogging (30 minutes)  Breakdancing	5ft7, 175pnds
Male	20-29	Yes	I've been on diets - but not a fad diet	No					Yes	I lift weights tri- weekly for about about 60-90 min. and i play sports in the spring summer and fall	180 lbs 5' 11" ft.

Male	20-29  19 and under	No Yes	Never been on a diet  I've been on diets - but not a fad diet	N/A - Never been on a diet plan				Yes	Yes approximately: fencing 3 hours a week, karate 3 hours a week, cycling 5 hours a week, plus ~2 hours of work outs for core strengthening and weightlifting  Rowing maching 4 times per week for 30-	150 lbs, 6'0" 5'3", 142 lbs
	under		not a rad dict						60 minutes	
Female	20-29	No	Never been on a diet	N/A - Never been on a diet plan				Yes	When I feel I need to. Twice a week or more usually keeps me feeling pretty good.	140lbs, 5'-6"
									I do push ups and crunches regularly. I occasionally go running but I prefer to walk. Contra dancing!	
Female	30-39	Yes	I've been on diets - but not a fad diet	Yes			5		I try to walk 30 minutes a day, or use the elliptical machine for 20 minutes. I enjoy hiking and kayaking, as well, when the weather is good.	122lb, 5'4"
Male	20-29	No	Never been on a diet	N/A - Never been on a diet plan				No	I do not exercise.	130 lbs 5'9"
Female	20-29	No	Never been on a diet	N/A - Never been on a diet plan				Yes	yes, i go to the gym 2- 3 tims a week for about an hour to do some cardio and lift	125 lbs, 5' 5"

										some weights.	
Male	19 and under	No	Never been on a diet	N/A - Never been on a diet plan					Yes	Jogging/walking	5'9" 140 lb
Female	20-29	Yes	I've been on diets - but not a fad diet	Yes					No		160, 5'5"
Female	30-39	Yes	I've been on diets - but not a fad diet	Yes				5	Yes	Run, walk, dance, play basketball	5'6, 138
Male	19 and under	No	Never been on a diet	N/A - Never been on a diet plan					Yes	I play tennis, squash, basketball, and soccer whenever I get the chance.	150 lbs. 5'11"
Female	19 and under	Yes	South Beach Diet, I've been on diets - but not a fad diet	No	5	4			No	No	150, 5'4"
Male	20-29	No	Never been on a diet	N/A - Never been on a diet plan					Yes	I only exercise during school breakswhen I actually have the time I play various sports	150lb 6'1"
Female	19 and under	No	Never been on a diet	N/A - Never been on a diet plan		5			No		
Female	19 and under	Yes	I've been on diets - but not a fad diet	Yes					No	dance for 2 hours 3 days a week. and running when i get the chance. about 2 miles once a week.	5'3 115lbs
Female	19 and under	Yes	I've been on diets - but not a fad diet	Yes					No	Running everyday. 2 miles	175 - 5'8
Male	19 and under	No	Never been on a diet	N/A - Never been on a diet plan					Yes	I complete aerobic exercises every day, mainly by walking around campus (and occassionally	weight=135 lbs, height= 5 ft, 10 in

Female	20-29	No	Never been on a diet	Yes								No	jogging). Every once in a while, I will complete a 20-minute workout on a stationary bike.  I do on occasion. I enjoy sports like basketball and volleyball.	5'10" 160lbs
Male	50-59	Yes	I've been on diets - but not a fad diet	Yes							3	No	A bit, should do more.	6ft 2 inches 249 lbs
Female	20-29	No	Never been on a diet	N/A - Never been on a diet plan								Yes	Yes I do, I am a varsity athlete, so during season I exercise almost everyday and out of season I try to go to the gym at least 3 or 4 days a week. I usually run about 3 miles, sometimes bike, do abs, and lift.	I am 5'3" and about 102 lbs
Male	20-29	Yes	I've been on diets - but not a fad diet	Yes							4	Yes		
Male	20-29	No	Never been on a diet	N/A - Never been on a diet plan										
Female	19 and under	No	Never been on a diet	N/A - Never been on a diet plan			5					Yes	yes, 3 times a week - half hour cardio and 150 crunches.	125 lbs, 5'4"
Female	20-29	No	Never been on a diet	No	4	4	3	4	4	4 4	4	Yes		
Female	20-29	No	Never been on a diet	N/A - Never been on a diet plan								No		5'2" 170 lbs

Female	20-29	No	Never been on a diet	N/A - Never been on a diet plan					Yes	Yes. Every other day to every day. Whenever I have time. I usually run for 2 miles and do the	5'5", 108 lbs
										ellyptical for 2 miles. Or I just run 4 miles.	
Female	20-29	No	Never been on a diet	N/A - Never been on a diet plan					Yes	Yes. Every other day to every day. Whenever I have time. I usually run for 2 miles and do the ellyptical for 2 miles. Or I just run 4 miles.	5'5", 108 lbs
Male	20-29	Yes	Atkins, I've been on diets - but not a fad diet	Yes	3				5 Yes	Yes, everyday, alternating between total body workouts every other day and cardio on the other days for about an hour to an hour and a half each day	6'5" 195
Male	19 and under	No	Never been on a diet	N/A - Never been on a diet plan					Yes	I play soccer and basketball. I go to the gym and lift weights, and during the off season I go running.	145 lbs, 5'9"
Female	20-29	Yes	I've been on diets - but not a fad diet	Yes					Yes	yes, in the spring and summer months i play tennis, and i use my exercise bike as frequently as i can	5'5", 128
Male	60-69	Yes	Weight Watchers, Zone	Yes				4	Yes	some	5'9" 215
Female	20-29	Yes	I've been on diets - but not a fad diet	Yes					No	Atleast 3 times a week I run on the elliptical for 25 mins then Ilift for an hour. I also play	164lbs, 5ft 8 inches

														club sports during the fall and spring.	
Female	20-29	Yes	Weight Watchers, I've been on diets - but not a fad diet	Yes								3	No	Yes lifting 5 days a week and throwing for the track team 6 days a week and occasional cardio	5'7 160 lbs
Male	19 and under	No	Never been on a diet	N/A - Never been on a diet plan									Yes	I exercise by running for half an hour five times a week and doing lots of pushups and pullups	height: 6 ft. 1 in. weight: 170 lbs
Female	20-29	Yes	Alli	No						3			No	I walk up the hill every day.	180; 5'8
Male	20-29	Yes	I've been on diets - but not a fad diet	N/A - Never been on a diet plan								2	No	Yes  ~4hr/week (at home) ~1hr/week (during school)  Bike/elliptical/other	210lb/67in
Male	19 and under	No	Never been on a diet	N/A - Never been on a diet plan									Yes	Nope. Walking to classes and around campus is all the exercise I do. I just eat right to not gain weight.	135lbs 6'1"
Male	19 and under	No	Never been on a diet	N/A - Never been on a diet plan									Yes	yes, I lift weights at the WPI gym every other day	140lbs & 5'8'
Male	19 and under	No	Never been on a diet	N/A - Never been on a diet plan									Yes	Basketball once a week	5'10" 160lb
Male	20-29	No	Never been on a diet	Yes	5	5	4	5	5	5	5	5	Yes		

Female	19 and under	No	Never been on a diet, I've been on diets - but not a fad diet	Yes			5						Yes	yes. everyday. basketball, running	
Female	19 and under	No	Never been on a diet	N/A - Never been on a diet plan			5						Yes	If walking up stairs counts, I do that.	125, 5'5"
Female	19 and under	Yes	I've been on diets - but not a fad diet	No								3	No	Not frequently.	200lb, 5'8"
Female	19 and under	Yes	I've been on diets - but not a fad diet	Yes									Yes	Army PT. Callestetics and running	5'7 135
Male	70 and over	No	Never been on a diet	N/A - Never been on a diet plan									Yes	Walk a mile a day on a treadmill. Some free weight exercises	170 lbs, 6'1"
Female	30-39	Yes	Weight Watchers	Yes									Yes	Yes. About 3 times per week. A combination of cardio and weights. 30 minutes of running on the treadmill plus sit-ups, push-ups, arm weights, leg lifts, etc.	Height= 5ft, 3 in Weight=120
Female	50-59	Yes	Atkins, South Beach Diet, Weight Watchers, Jenny Craig, grapefruit, cabbage	Yes	5	3	3	1				5	Yes	Yes everyday walk the dog water aerobics/water fitness	200 - 5'5"
Male	30-39	Yes	Never been on a diet	N/A - Never been on a diet plan									No	sporatic walking, golf, hiking, swimming	6'1" - 270 lbs
Female	20-29	Yes	Atkins, I've been on diets - but not a fad diet	Yes	4								No		6ft. 165lbs
Male	20-29	Yes	Bacon Diet	Yes	1	1	2	1	1	0	0	1	Yes	I play lawn darts and eat spicy cinnamon rolls. Occasionally I will engage in	4'11" 350lbs.

									aerobatic roof jumping to work out my quads for the ladies. The ladies like the quadriceps. I tried flying once, but it didn't work out I ended up getting locked up for a few weeks under a Government conspiracy to lock me up as insane.	
Female	19 and under	No	Never been on a diet	N/A - Never been on a diet plan	5		Ye		I take basketball as a PE class so that's about 40 minutes twice a week. I play badminton and basketball on Fridays for at least 3 hrs and sometimes on other days if I have time. So about 5 hrs a week. I do not like to exercise. I do not see sports as exercise but understand that some people do.	Last time I checked, which was my doctor's appointment in Jan. 2009, I was 5' 2.25" and 111.5 lbs. I am happy with my weight but and not happy with my height.
Male	20-29	No	Never been on a diet	N/A - Never been on a diet plan					I do not exercise too much. I do marching band in the fall, and swim long distance (3 miles) once a year.	210 lbs, 6 ft 1 in
Male	20-29	No	Never been on a diet	N/A - Never been on a diet plan			Ye	es	Running. Usually 2-3 miles 4 times a week.	Height: 5'10" Weight: 145lbs

Male	20-29	Yes	Weight Watchers, I've been on diets - but not a	Yes				Yes	Yes, daily work construction	210 6'1"
			fad diet						push ups and other dumbbell free weight exercises	
Female	20-29	No	Never been on a diet	N/A - Never been on a diet plan				Yes	A little, a couple of hours a week. Yoga, dance, or pilates	5'3" 95lbs
Female	19 and under	No	Never been on a diet	N/A - Never been on a diet plan	5			No	Yes I exercise, on average twice a week depends if I have time. I go running, basketball, and using the weight machines.	145lbs, 5'5"
Female	20-29	Yes	I've been on diets - but not a fad diet, vegetarian	Yes			4	Yes	Yes, 3-5 times a week, light weightlifting(high reps,low weights) and run 10-30min.	Weight- 120,Height- 5'2"
Male	20-29	No	Never been on a diet	N/A - Never been on a diet plan				Yes	Yes. A lot. I am a cross country runner so I run roughly 50 miles a week on average. I also weight train on the side.	6'0" 175 lb
Female	19 and under	Yes	I've been on diets - but not a fad diet	Yes				Yes	yes everyday. i run/elliptical/bike, lift a little and do abs.	5'7 125 lbs
Female	20-29	No	Never been on a diet	N/A - Never been on a diet plan				Yes	Yes. During sports season, I have rugby practice/games 4 times a week for 2 hours. On off days I'll spend another half hour doing cardio and half hour lifting or core	115 lb 5'0"

Male Female	19 and under 20-29	No Yes	I've been on diets - but not a fad diet Weight Watchers	Yes Yes									Yes	exercises. In the off season, I exercise 3-4 times a week for about an hour a day.  At least 4 times a week. I run, ride a	approximately 5 feet 6 inches and
														stationary bike, lift a few weights, and do an ab workout.	currently 160 pounds
Male	20-29	No	Never been on a diet	N/A - Never been on a diet plan									Yes	3-5 times a week. walk, bike, jog, gym sometimes	135lbs 6'
Female	30-39	Yes	I've been on diets - but not a fad diet	Yes									No	Yes, but not enough due to time constraints. I like to walk, hike, jog. Jogging 3 times per week for 30-40 minutes is the best for me along w/eating healthful foods but I haven't been doing this so gained weight.	5' 6" 182 lbs
Female	19 and under	No	Never been on a diet	N/A - Never been on a diet plan			5								
Female	19 and under	Yes	I've been on diets - but not a fad diet	Yes	0	0	0	0	0	0	0	3	Yes	rarely, once or twice a week	119 lbs 5'2"
Female	19 and under	No	Never been on a diet	N/A - Never been on a diet plan			5						No	Yes, 4times/week, weight training, calisthetics, etc.	5"1' 105lbs.
Female	19 and	No	Atkins	Yes	3		5						Yes	In high school I did	107 lbs. 5'3"

	under											cross country and	
												track, so I exercised	
												regularly in the fall	
												and spring. In college I	
												tried cross country and	
												dropped out, now I	
												just occasionally do	
												the ellipitcal machine	
												for 30 minutes (twice	
												in this past week).	
Female	19 and	No	I've been on diets - but	Yes		5				4	Yes	Sometimes, for like 30	125 lbs, 5.4 feet
	under		not a fad diet									min to an hour,	
												jog/run/dance.	
Male	40-49	No	Never been on a diet	N/A -							Yes	work outside doing	168 lbs 5'6
				Never								farm work for exercise	
				been on a									
	10 1			diet plan					_				
Male	19 and	No	Zone	Yes					5		Yes	yes. daily. crossfit	5'8" 150lbs
F1.	under	V.	Adline XXV. inte	37	2						NT.		
Female	20-29	Yes	Atkins, Weight Watchers	Yes	2						No		
Male	19 and	Yes	I've been on diets - but	Yes						1	Yes	Yes 5 times a week 2	6 ft 190
Maie	under	ies	not a fad diet	res						4	res	cardio 2 weights	011 190
Male	40-49	Yes	The "No S Diet" see	Yes				+ +		5	No	Yes. I walk 6 days per	204 punds five
Maie	40-49	168	http://www.nosdiet.com/	1 68						3	NO	week for half an hour	foot eleven
			http://www.nosuict.com/									per day plus lift at the	inches
												gym one day per week	inches
												for 30 minutes	
Female	19 and	No	Never been on a diet	N/A -		5					Yes	Yes	175/ 6'0"
	under			Never								6 times a week	1
				been on a								i play basketball	
				diet plan								- Fand a management	
Male	19 and	No	Never been on a diet	N/A -							Yes	not really, im kind of a	150lbs 6foot
	under			Never								lazy shit. i play on the	3inches
				been on a								hockey team here and	
				diet plan								there so maybe that	
							1					counts.	

Male	19 and under	No	Never been on a diet	N/A - Never been on a diet plan					Yes	not really, im kind of a lazy shit. i play on the hockey team here and there so maybe that counts.	150lbs 6foot 3inches
Male	20-29	Yes	I've been on diets - but not a fad diet	Yes				3	No	5 days a week, strength training and some cardio	5'5"/178
Male	19 and under	No	Never been on a diet	N/A - Never been on a diet plan					Yes	I exercise when I can by running. The backpack I carry also has some heavy materials.	6' 1" 175 pounds
Male	20-29	No	Never been on a diet	N/A - Never been on a diet plan					Yes	I try to swim at least 1-2 times a week depending on school work and other responsibilities, this term i haven't been able to do that as often as i'd like. Other than that while i'm home i tend to ride my bike with my brother for exercise.	#######################################
Male	20-29	No	Never been on a diet	N/A - Never been on a diet plan					Yes	Yes, I exercise at least an hour a day - running, lifting, and playing tennis/basketball.	158 lbs 5'11"
Female	20-29	No	Never been on a diet	N/A - Never been on a diet plan					Yes	Yes, running, lifting, sports	5'7" 134lbs
Female	20-29	Yes	I've been on diets - but not a fad diet	Yes					No	Not since coming to college.	115 lbs, 5'1"
Male	19 and	Yes	I've been on diets - but	Yes				3	No	Biking in intervals of	5'7" 150lbs

	under		not a fad diet						5-20-5, 3 times a week along with ab exercises.	
Male	19 and under	No	Never been on a diet	N/A - Never been on a diet plan				Yes	I run ~30 miles a week during the summer.	145 pounds, 5 foot 10
Female	20-29	No	Never been on a diet	N/A - Never been on a diet plan				Yes	Some. I play wii fit and do Yoga, go rock climbing.	Height: 5' 7.5", Weight: 140 lbs
Male	20-29	No	Never been on a diet	N/A - Never been on a diet plan				Yes	walk around, sports on weekends, sex	62kg, 5ft 10inches
Male	19 and under	No	Never been on a diet	N/A - Never been on a diet plan				Yes	Yes, I swim 2 hours a day for 5 days a week and I lift weights 3 days a week.	165 lbs. 5'9"
Male	19 and under	No	Never been on a diet	N/A - Never been on a diet plan				Yes	Yes, about 4 times a week. Push-ups, situps, run and sometimes go to the gym to lift	165, 5'11"
Male	19 and under	Yes	Atkins	No	3			Yes	Yes at least four times a week. Includes cardio, lifting, and various other exercises	5'10" 175lbs
Male	20-29	No	Never been on a diet	N/A - Never been on a diet plan				Yes	I exercise somewhat irregularly, usually just through walking/hiking for fun. I do take time to work out and/or run (3+ miles at about 7min/mile) when I can (and am not feeling	6'1" 165lb

									lazy).	
Male	20-29	No	Never been on a diet	N/A - Never been on a diet plan				No	No	230 lbs 6ft 1in.
Female	40-49	No	Never been on a diet	N/A - Never been on a diet plan				Yes	Try to jog a couple of times a week. Otherwise mostly walk a lot, take stairs, etc.	140 lbs, 5'4"
Female	20-29	No	Never been on a diet	N/A - Never been on a diet plan				Yes	Yes, a few hours a week.	5'2" 105lbs
Female	20-29	Yes	Never been on a diet, I've been on diets - but not a fad diet	Yes			3	No	Not much, but I wish I did have more time to exercise more.	150 lb, 5'2"
Female	19 and under	Yes	Vegetarian	Yes				No	Yes, about an hour a day, running and "ellipticalling" half and half.	133, 5'4"
Male	19 and under	No	Never been on a diet	N/A - Never been on a diet plan				Yes		#######################################
Male	20-29	No	Never been on a diet	N/A - Never been on a diet plan				Yes	Yes 4-6 days a weekstrength training muscle building	6ft 180lbs
Male	20-29	No	Keystone diet	N/A - Never been on a diet plan				Yes	no, never. I havent run to get in shape since high school	135 lb 5'4"
Male	19 and under	No	Never been on a diet	N/A - Never been on a				Yes	only crunches and push-ups every other day	6 ft, 145 lbs

				diet plan							
Female	20-29	No	Never been on a diet	N/A - Never been on a diet plan					Yes	Yes, usually about 5-6 times a week for about 1 to 2 hours. I like to run, I alternate between sprinting and long distance for soccer and track and field training. I also enjoy the elliptical and bike and I like to lift weights.	I am 5'4" and weigh 145 lbs
Male	20-29	No	Never been on a diet	N/A - Never been on a diet plan					Yes	Yes, I ski in the winter and mountain bike in the summer. Usually around 5 times per week.	5'-10" 185 lb
Male	19 and under	No	Never been on a diet	N/A - Never been on a diet plan					Yes	I exercise once a weak at the gym.	160, 6feet
Female	20-29	No	Never been on a diet	N/A - Never been on a diet plan					Yes	Yes, running, 2-3 times a week for 30-60 minutes	5'6" 150 lbs
Female	40-49	Yes	South Beach Diet, Weight Watchers	Yes	4	3			No	Yes. 3-4 hours per week. Walking	172 5'4"
Male	20-29	No	Never been on a diet	N/A - Never been on a diet plan					Yes		180 lbs and 6 feet
Female	40-49	Yes	Weight Watchers	Yes					No	at the gym 6 days a week alternating 60 minutes of cardio and 60 minutes of strength training	5'4", 182

Female	20-29	Yes	I've been on diets - but not a fad diet  Atkins, Weight	Yes	2					Yes	Rarely due to academic and extra curricular demands. Want to exercise more often. Typically run 30 minutes, set of abs, set of free weights. I walk. 4x a week	120, 5'1" 5"2 137
Male	40-49	Yes	Watchers Atkins, Nutrisystem, Herbalife	Yes	3			5		No	I would excercise all day if the time allowed. Earning a living has top priority.	310 6' 0"
Female	20-29	No	Never been on a diet	N/A - Never been on a diet plan						Yes	Yes, some exercise. Maybe 1-3 times a week. Some classes, such as Yoga.	130 pound, 5 feet and 8 inches
Female	20-29	No	Do my best to make healthy decisions.	Yes					3	No	I need to exercise more. Without doing school sports and other activities as such, I've started to gain unwanted weight.	5'8"175
Female	40-49	Yes	Atkins, South Beach Diet, Weight Watchers	Yes	1	2	2			Yes	yes, three times a week for an hour. I run, use elliptical machine, lift free weights and some nautilus	5'6" 140
Male	20-29	Yes	I've been on diets - but not a fad diet	Yes					4	Yes	I played varsity basketball for WPI when I was an undergraduate. I still play a lot of sports, run and lift weights. I usually work out 5-6 times per week for 1-2	6 feet, 195 lbs.

									hours at a time.	
Female	19 and under	Yes	Weight Watchers	Yes				No		5'2;130lbs
Female	50-59	Yes	Weight Watchers	Yes				No	No, I use too exercise all of the time and one day I just stopped and I am having a hard time getting motivated to start up again. And for the question "Are you happy with your weight?" Is anyone ever happy with their weight?	4ft 9 in and approx. 124lbs
Male	19 and under	Yes	I've been on diets - but not a fad diet	Yes				No	not regularly	195, 5' 9"
Female	40-49	Yes	Weight Watchers, Jenny Craig	Yes		2		No	not as often as I want. Treadmill, elliptical, free weights.	5'10, 199
Male	19 and under	Yes	I've been on diets - but not a fad diet	Yes				Ye	Run 30 mins 2-4 times/week	5' 8", 165
Male	20-29	No	Never been on a diet	Yes				Ye	days a week, four days lifting weights and 2 days cardio. However, that became impossible when I started my MQP.	
Male	19 and under	No	Never been on a diet	N/A - Never been on a diet plan				Ye		6 ft 1.5 in; 125 lbs
Female	20-29	Yes	I've been on diets - but not a fad diet	Yes				Ye	elliptical 3-6 times per week, 30-45 minutes per workout Ab riper X 3-4 times per week	5' 9.5" 138lbs

Female	20-29	No	Never been on a diet	N/A - Never been on a diet plan			Yes	Yes, at least 4-5 times a week. I run, play basketball, play soccer, lift.	5' 8" 150lb
Female	20-29	No	Never been on a diet	N/A - Never been on a diet plan			Yes	about 5 times aweek, treadmill and rowing machines	5'11" 135lbs
Female	30-39	Yes	Weight Watchers	Yes			No	Walking- 3 times a week, try to go to the gym as often as possible to do liptical & weights.	225, 5'8"
Female	50-59	Yes	Weight Watchers	Yes			Yes	I run 2-3 miles every other day and walk half an hour on the others. I put that I'm happy with my weight, but wouldn't mind losing 5 lbs.	5/6"-150 lbs
Male	20-29	No	Never been on a diet	N/A - Never been on a diet plan			Yes	Running, general monkey-ness. nothing in particular	150 lb, 5'10"
Female	50-59	Yes	I've been on diets - but not a fad diet	Yes			No	Noon dance class, 1-2 times/week  cycling: 6 miles round trip to work or 20-30 minutes stationary about 4-5 times/week  Walking: occasionally.	165; 5'4"
Male	20-29	Yes	I've been on diets - but not a fad diet	Yes			Yes	Yes, 3-5 times a week. Lifting weights, play hockey, cardio.	205, 5' 10"

Female	20-29	Yes	Waight Watchers	Yes			Yes	None, I would love to	height: 5'6";
remaie	20-29	ies	Weight Watchers	res			res		weight 150 lbs
								use the gyms in East	weight 150 lbs
								Hall, but since I dont	
								live there I cant.	
								Maybe when WPI	
								builds the new athletic	
								center, the gyms on	
								campus might be	
								nicer, but for now they	
								are aweful	
Female	60-69	No	Diet to keep weight at	Yes			Yes	Walking &	
			current level					strengthening	
								exercises.	
								Varies, depending on	
								weather for walking.	
								1/2 hr. for others.	
Female	20-29	No	Never been on a diet	N/A -			Yes	When time allows. I	5'7" 157 lbs
				Never				preffer 3-5 times a	
				been on a				week. Generally 20	
				diet plan				minutes of cardio and	
				1				30 minutes of wight	
								lifting.	
Female	20-29	No	Never been on a diet	N/A -			No	Exercise atleast 5 days	135, 5'3"
				Never				a week at a local gym.	,
				been on a				Cardio exercises every	
				diet plan				day and lifting every	
				diet plan				other day. Cardio is	
								usually elliptical or	
								treadmill, sometimes	
								bike. Lifting is based	
								on a workout plan	
								from my coach for offseason.	
Dame 1	10 1	N.	Name have a 22 d	NI/A			37		517!! 1 CO 11:
Female	19 and	No	Never been on a diet	N/A -	5		Yes	daily sports- crew and	5'7" 160 lbs
	under			Never				track	
				been on a					

				diet plan						
Male	20-29	No	Never been on a diet	N/A - Never been on a diet plan				Yes		170 lb, 6'1"
Male	50-59	Yes	I've been on diets - but not a fad diet	Yes				No	Swim laps for 30 minutes three times per week.	5'8" 180 lb
Male	19 and under	No	Never been on a diet	N/A - Never been on a diet plan				Yes	Infrequently. Now and then I try and get out of the rez hall, maybe walk around the park. In C and D term I am looking to take a couple PE courses to get me to be more active.	200-odd, 6'1
Female	20-29	No	I've been on diets - but not a fad diet	Yes				No	yes. I play rugby.  In season, 3 2 hr practices + 80-160 mins of game play a week. Possibly also some supplemental running and/or lifting.  Winter, ~100 mins of cardio a week and moderate strength and conditioning exercises.  Summer, ~3-4 hours of touch/7's rugby a week	5'0", 170lbs
Female	50-59	Yes	I've been on diets - but not a fad diet	Yes			4	No	I exercise 6-7 days a week. 30-45 minutes at a heart rate of 140 5	5' 5" 136 lbs

Female	19 and under	Yes	Zone	Yes			2	No	times a week and 2x a week I do weight training for 20 minutes plus an hour of yoga Yes. On the rare chances I get. I run and swim laps.	150; 5'4"
Male	19 and under	No	Never been on a diet	N/A - Never been on a diet plan				No	I walk up to my dorm room on the third floor a few times daily.	6ft, 165lbs
Female	20-29	No	Never been on a diet	N/A - Never been on a diet plan				No		
Female	20-29	Yes	Weight Watchers	No				Yes	Not much. Walking to and from class mostly.	157 5'4
Male	70 and over	Yes	Weight Watchers	Yes				No	Very moderately. I go to deep water exercise class at the Greendale YMCA 3 times a week.	6' 0"; I weigh just 6' 00"; wgt. under or about 200 pounds
									Incidentally, I've been on Weight watchers MANY times. I almost always lost weight, but after I quit the meetings, I gained it all back. I have lost hundreds of pounds that way!	
Female	60-69	Yes	Weight Watchers, I've been on diets - but not a fad diet	No				No	walk the dogs	
Female	19 and under	Yes	I've been on diets - but not a fad diet	Yes			3	3 Yes	Yes. I try to exercise for at least 30 minutes	110 lbs, 5 ft

									cardio everyday, but once in awhile I skip a day here and there due to busy schedule. I'm on ROTC Army so I get intense workouts through that. I go to the gym in Morgan Hall for cardio and the Alumni gym for weight lifting.  Sometimes I do my situps and extra workouts in my dorm room.	
Male	20-29	No	Never been on a diet	N/A - Never been on a diet plan			,	Yes	Workout twice every week for 1 hour.	165LB, 6 feet
Female	50-59	Yes	Weight Watchers	Yes			ı	No	Do not exercise (but should). Have found all weight from the past that had been misplaced!	5'7 and 260 lbs
Male	20-29	Yes	on my self diet	Yes			1	No	I usually go to fitness center 3 times in a week	176 cm - 72 kg
Female	19 and under	No	Never been on a diet	N/A - Never been on a diet plan	5		3	Yes	Yes, two hours of dance workout three nights a week including cardio, stretching, and ab work.	109, 5'4
Female	60-69	No	Never been on a diet	N/A - Never been on a diet plan			1	No	Walking I am slightly overweight and try to cut down on desserts, but wouldn't	175 lb. 5'8"

										say I have done a dedicated diet	
Female	20-29	No	Never been on a diet	N/A - Never been on a diet plan					Yes	Yes, twice a week, weight-training.	5'2", 135
Female	19 and under	No	Never been on a diet	N/A - Never been on a diet plan		5			Yes		120lbs 5'6"
Female	30-39	Yes	Weight Watchers, I've been on diets - but not a fad diet	Yes					0 Yes	run 5kilometers 2x a week. walk with double stroller	5 foot 6, 128 lbs.
Female	20-29	Yes	I've been on diets - but not a fad diet	Yes					No	Yes. Running outside during the spring, summer, and fall. Dance during the spring and summer. Crunches every other night. Ballet jumps every other night.	5'2" 130lbs
Male	20-29	No	Never been on a diet	N/A - Never been on a diet plan					No	Occasionally, lift weights, bike in the gym	140 lbs. 5' 11"
Male	19 and under	No	Never been on a diet	N/A - Never been on a diet plan					Yes	often sports, etc	120lbs 5'7"
Male	30-39	No	Never been on a diet	N/A - Never been on a diet plan					No	not enough snowboard work	6'5" 240 lbs
Female	50-59	Yes	I've been on diets - but not a fad diet, Low carbs similar to Atkins	Yes	4				4 Yes	15 min fast walk twice a day.	127 lb., 5' 2"

Male	20-29	No	Allergy restrictions,	N/A -			Ye	es I	walk to and from	5'10.5" 145 lbs.
			vegetarian	Never				C	campus and for	
				been on a					grocery shopping, I try	
				diet plan					o get more rigorous	
									exercise once or twice	
									a week to help me	
									sleep.	
Female	20-29	No	Never been on a diet	N/A -			Ye		do not exercise but I	125 lbs, 5'6"
				Never					do walk to and from	
				been on a				C	campus every day.	
		1		diet plan						
Female	20-29	No	Never been on a diet	N/A -			Y		Not really. I	140lb and 5'6.5"
				Never					occasionally do a gym	
				been on a					class.I also opt to take	
				diet plan					he stairs and walk	
									around campus	
Г 1	50.50	37	XX	37			NT.		whenever possible.	127 11 51 21
Female	50-59	Yes	Weight Watchers	Yes			No		Run, X-C ski, aerobics	137 lbs; 5' 2"
								(	classes, swim	
								3	3-5 days/week	
Male	20-29	No	Never been on a diet	N/A -			Ye		Yes, I mainly do	180 lbs, 5' 9"
				Never					weight training.	,
				been on a					Currently I work out	
				diet plan					about once a week.	

## 12.2 Food Nutrition Awareness Survey in Morgan Dining Hall in Worcester Polytechnic Institute

## 12.2.1 Questionnaire

- Male / Female
- What are they eating, and their Caloric guess
- What are they drinking, and Caloric guess
- How many Calories should you be eating a day?
- Do you watch what you eat, or do you just eat whatever you're in the mood for?
- If Chartwells provided nutritional information in front of each food item they serve in the dining hall, would that influence your food choices?
- Did you know that there was a binder full with nutritional information the dining hall?

## **12.2.2 Results**

Male or Female	What are they eating, and their Caloric guess	What are they drinking, and Caloric intake	How many Calories should you be eating a day?	Do you watch what you eat, or do you just eat whatever you're in the mood for?	If chartwells provided nutritional information for all of the food they serve in DAKA, would that influence your food choices?	Did you know that there was a binder full with nutritional information in DAKA?
Female	fried chicken - 1000 special fries - 1000	apple peach juice - 500	3000	I never watch what i eat	No	No
Female	fried chicken - 500 special fries - 500 eggplan parmesan - 300 beef stroganof - 400	powerrade - 100	2000	I try to watch what I eat but I sometimes eat junk food	No	No
Female	Salad 100 Calories Thousand Island dressing - 200 Calories Fried Chicken, 8 pieces - 600 Calories	Water	1800	I try to watch what I eat but I sometimes eat junk food	Yes	No
Female	Fried Chicken - 400 Special fries - 280 Pork Taco - 300	water	2000	I try to watch what I eat but I sometimes eat junk food	Yes	No
Female	sandwich with ham, salami, cheese -	water	1500	I try to watch what I eat but I	Yes	No

	300 apple - 50			sometimes eat junk		
	αρρίο σο			food		
Female	special fries - 300 pasta - 100 french bread pizza - 200	water	2000	I try to watch what I eat but I sometimes eat junk food	Yes	No
Female	grilled cheese sandwich - 500 minestrone soup - 300	2500	2500	I try to watch what I eat but I sometimes eat junk food	Yes	No
Female	sandwich with turkey and ham - 400 fried chicken - 600 special fries - 300	milk - 100	2000	I try to watch what I eat but I sometimes eat junk food	Yes	No
Female	salad - 100 balsamic sauce - 30 special fries - 500 fried chicken - 400	water	2000	I try to watch what I eat but I sometimes eat junk food	Yes	No
Female	thousand island dressing - 100 salad - 100 fried chicken - 1000	water	2000	I try to watch what I eat but I sometimes eat junk food	Yes	No
Female	salad 100 thousand island dressing 80 5 chicken fingers 500	nothing	3000	I never watch what i eat	Yes	No
Female	special fries 200 green beans 90 chicken fingers 300 bbq sauce	water	2000	I try to watch what I eat but I sometimes eat junk food	Yes	No

	50					
Female	sandich with cheese and ham - 400 fried chicken - 400 salad - 100 italian dressing - 100	coffee 250	2000	I try to watch what I eat but I sometimes eat junk food	Yes	No
Female	sandwich with cheese and turkey 300 special fries 500 ketchup 50	lemonade 100	2000	I try to watch what I eat but I sometimes eat junk food	Yes	Yes, but I never use it
Female	french bread pizza (2 slice) - 300 salad - 50 blue cheese dressing - 200 2 chocolate chip cookies - 400	water	2000	I try to watch what I eat but I sometimes eat junk food	Yes	No
Female	tomatoes (1 full tomato) - 100 bean salad - 100 eggplant Parmesan - 200 apple pie - 400	water	1500	I try to watch what I eat but I sometimes eat junk food	Yes	No
Female	pesto pizza slice - 250 eggplant parmesan - 150 special fries - 300 banana - 200	water	1200	I try to watch what I eat but I sometimes eat junk food	Yes	No
Female	plain pizza slice - 350 cucumber - 70 2 cookies - 300	water	2000	I try to watch what I eat but I sometimes eat junk food	Yes	No

Female	cookie - 60 special fries - 150 fried chicken - 600 sweet and sour sauce - 40	powerrade - 100	2000	I never watch what i eat	Yes	Yes, but I never use it
Female	pork taco - 400 beef stroganof - 300 cookie - 90 special fries - 250	1 cup of milk - 50	2000	I try to watch what I eat but I sometimes eat junk food	Yes	No
Female	fried chicken - 500 special fries - 400 ketchup - 25 honey mustard sauce - 25	ginger ale - 50	2000	I never watch what i eat	Yes	No
Female	fried chicken - 300 special fries - 300 green beans - 100 cookie - 50	dr pepper - 50	2000	I never watch what i eat	Yes	No
Female	fried chicken - 300 special fries - 250 ranch dressing - 90 salad - 100	sprite - 150	2000	I try to watch what I eat but I sometimes eat junk food	Yes	No
Female	fried chicken - 350 special fries - 400 honey mustard sauce - 150 squash - 300	diet coke - 0	2000	I try to watch what I eat but I sometimes eat junk food	Yes	No
Female	special fries - 300 green	water	1750	I try to watch what I eat	Yes	No

	beans - 80			but I		
	beef stroganoff -			sometimes eat junk		
	250 ketchup - 50			food		
Female	special fries - 300 grilled cheese - 300	milk - 120	1500	I try to watch what I eat but I sometimes eat junk food	Yes	Yes, but I never use it
Female	special fries - 700 fried chicken - 800 beef stroganof - 800	chocolate milk - 400	1200	I try to watch what I eat but I sometimes eat junk food	Yes	No
Female	Turkey Mashed Potatoes Stuffing Fried 500 Calories	2% Milk 50 Calories	2500 Calories	I never watch what i eat	No	No
Female	Chicken with Stuffing 500 Squash 200 Cranberry Sauce 100 Pears and Carrot 50	Chocolate Milk 20	2000	I try to watch what I eat but I sometimes eat junk food	Yes	Yes, but I never use it
Female	Mashed Potatoes 200 Squash 70 Peas and Onions 10 Chicken and Stuffing 200 Banana Creme Pie 300	Chocolate Milk 90	2200	I try to watch what I eat but I sometimes eat junk food	Yes	No
Female	Chicken with Stuffing 400 Stuffing on the side 200 Mashed Potatoes 200 Garlic Bread 350	Cheery Coke 210	3000	I never watch what i eat	Yes	Yes, but I never use it

Female	chicken with stuffing 200 mashed potatoes 200 cranberry saurce 50 peas and carrots 50	water	2000	I try to watch what I eat but I sometimes eat junk food	Yes	No
Female	chicken and stuffing 200 mashed potatoes 100 shepards pie 300 pizza 300 desert (cookies) 500	coke 400	3000 (runner)	I never watch what i eat	No	No
Female	fries 500 burger 1000	sprite 400	2000	I try to watch what I eat but I sometimes eat junk food	Yes	No
Female	fried chicken 500 fries 500	diet coke 0	2000	I try to watch what I eat but I sometimes eat junk food	Yes	No
Female	shepards pie 300 bread 80 cookies 300	OJ 200	1800	I never watch what i eat	Yes	No
Female	1/2 wrap 500 salad 300 cookie 100	water	1800	I try to watch what I eat but I sometimes eat junk food	Yes	No
Female	1/2 wrap 600 salad 500 cookies 200	cherry coke 160	2500	I never watch what i eat	Yes	No
Female	wrap 500 pasta and sauce 500	juice100	2000	I try to watch what I eat but I sometimes eat junk	Yes	No

				food		
Female	waffles with butter 400 fruit 150 salad 100	juice 50	2000	I try to watch what I eat but I sometimes eat junk food	Yes	No
Female	sandwich 550 cookie 150	water	1200	I try to watch what I eat but I sometimes eat junk food	Yes	No
Female	turkey mached potatoes butternut squash 800	iced tea 200	2500	I try to watch what I eat but I sometimes eat junk food	Yes	No
Female	mixed veggies 100 garlic bread 150 squash 100 pasta with marinara sauce 150	mango flavored water - 0	2000	I try to watch what I eat but I sometimes eat junk food	Yes	No
Female	chicken 250 mashed potatoes 100 peas and onions 80 pasta 100 cheese 50	water skim milk 80	2500	I try to watch what I eat but I sometimes eat junk food	Yes	No
Female	stuffed chicken - 150 rice 100 butternut squash - 60 shrimp pasta - 300 carrots / tomatoes 100	cranberry juice w/ sprite 150	2500	I never watch what i eat	Yes	No
Female	mashed potatoes - 500 peas and carrots - 100	water	2000	I try to watch what I eat but I sometimes eat junk	Yes	No

	sweet potatoes - 200			food		
Female	turkey - 300 1 plain pizza 100 ice cream 50	orange soda 20	2000	I never watch what i eat	No	No
Female	stuffed chicken - 450 peas 100 squash 150 mashed potatoes 250 garlic bread 150	water	2000	I try to watch what I eat but I sometimes eat junk food	Yes	No
Female	stuffed chicken 850 garlic bread 300 mashed potatoes 200	ice tea 150	3000 (swimmer)	I never watch what i eat	Yes	No
Female	shepards pie 300 squash 100 peas 75 cranberry sauce 150	diluted cranberry juice 150	2000	I try to watch what I eat but I sometimes eat junk food	No	No
Female	mashed potatoes 300 cheese 100 tomatoes 100 eggplant parmesan 200	water	1500	I try to watch what I eat but I sometimes eat junk food	Yes	No
Female	salad - 100 mashed potatoes 500 turkey 500 feta cheese 200	lemonade with green tea 200	2000	I try to watch what I eat but I sometimes eat junk food	Yes	No
Male	fried chicken - 500	water	2000	I try to watch what I eat but I sometimes eat junk	No	No

				food		
Male	3 Chicken wraps - 300 per wrap special fries - 400	green tea - 100	3500	I never watch what i eat	No	No
Male	Chicken - 300 pork taco - 400 special fries - 300	ginger ale - 50	2000	I try to watch what I eat but I sometimes eat junk food	No	No
Male	chicken fries - 300 chicken patty - 300 special fries - 400	root beer - 200	2000	I try to watch what I eat but I sometimes eat junk food	No	No
Male	pork taco - 450 squash - 150 green beans - 50	chocolate milk - 300	2500	I try to watch what I eat but I sometimes eat junk food	No	No
Male	special fries 50 fried chicken - 100 bbq sauce - 25	cherry coke - 110	2000	I never watch what i eat	No	No
Male	fried chicken - 1000 special fries - 1000 bbq sauce - 100	sprite 200 cranberry juice 300	3000- 3500	I never watch what i eat	No	No
Male	fried chicken - 300 special fries - 350 apple pie - 350	diet coke - 0 Calories	2000	I never watch what i eat	No	No
Male	fried chicken - 400 special fries - 200	powerrade - 80	2000	I never watch what i eat	No	No
Male	cookies 2 - 800	citrus peach and	2500	I try to watch	No	No

	fried chicken - 600 ketchup - 50 special fries - 420	cranberry juice - 3 cups - 800		what I eat but I sometimes eat junk food		
Male	plain pizza 2 slices - 400	dr. pepper - 200	3500	I never watch what i eat	No	No
Male	cake - 300 fried chicken - 450 special fries - 200	dr pepper (2 cups) - 150	2500	I never watch what i eat	No	No
Male	beef stroganof - 400 fried chicken - 200 special fries - 100 cake - 800	lemonade - 100	2000	I never watch what i eat	No	No
Male	grill cheese with egg - 200 special fries - 150 fried chicken - 100 bbq sauce - 75 buffalo sauce - 75 2 bananas - 100 pepperoni pizza - 100	milk - 15 powerrade - 75	2000	I never watch what i eat	No	Yes, but I never use it
Male	turkey sandwich - 600	juice - 120	3000	I try to watch what I eat but I sometimes eat junk food	No	No
Male	Fried Chicken - 350 Special fries - 400 Honey Mustard sauce - 40	Apple peach juice - 50 Calories	2000	I try to watch what I eat but I sometimes eat junk food	Yes	No

Male	Chicken - 500 special fries - 500 pork taco - 320	green iced tea - 100	2500- 3000	I never watch what i eat	Yes	No
Male	tuna wrap with cheese - 300	milk - 100	1750	I try to watch what I eat but I sometimes eat junk food	Yes	Yes, but I never use it
Male	fried chicken - 500 salad - 200 italian dressing - 100 cookie - 150	lemonade - 150	2000	I try to watch what I eat but I sometimes eat junk food	Yes	No
Male	pork taco - 450	orange juice - 100	2200	I try to watch what I eat but I sometimes eat junk food	Yes	No
Male	fried chicken - 250 special fries - 200 apple - 40 cookie - 150	water	2000	I try to watch what I eat but I sometimes eat junk food	Yes	No
Male	fried chicken - 400 special fries - 400 squash - 100 pork taco - 520 minestrone soup - 280	apple juice 2 cups - 180	3200	I try to watch what I eat but I sometimes eat junk food	Yes	No
Male	fried chicken - 450 special fries - 160 italian dressing - 75 salad - 50	coke - 100	3000	I never watch what i eat	Yes	No

Male	beef and pepper stromboli - 450 1 chocolate chip cookie - 100 green beans - 100	apple and peach juice - 100	2500	I try to watch what I eat but I sometimes eat junk food	Yes	No
Male	fried chicken - 300 special fries - 200 ketchup - 50 italian dressing 50 salad - 50	powerrade - 50	2500	I never watch what i eat	Yes	No
Male	fried chicken - 250 bbq sauce - 100 special fries - 300	dr. pepper - 150	2700	I try to watch what I eat but I sometimes eat junk food	Yes	Yes, but I never use it
Male	Turkey 300 Peas and Onions 100 Mashed Potatoes 250 Cake 300	Skim Milk 170	2350	I try to watch what I eat but I sometimes eat junk food	Yes	No
Male	Hambuerger 500 Fried 600 Ice Cream 400	Root Beer 200	2000	I never watch what i eat	Yes	No
Male	Stir Fry 1000	Water	2000	I never watch what i eat	Yes	No
Male	Pizza 400 Veggies 15 Garlic Bread 150	tea 100	2000	I try to watch what I eat but I sometimes eat junk food	Yes	No
Male	turkey leg 1000 Mashed potatoes shepards pie with grave 1100 cranberry	chocolate milk 200	8000- 9000 (swimmer)	I never watch what i eat	No	No

	sauce desert (cake and ice cream and cookies)					
Male	chicken and stuffing 1400 mashed potatoes 600 peas and carrots 350 salad 300	protein shake 120 powerrade 150	8000- 9000 (swimmer)	I try to watch what I eat but I sometimes eat junk food	No	No
Male	chicken 450 salad 200 veggies 100 turkey 250- 300 corn flakes 100	apple juice 75	3500	I try to watch what I eat but I sometimes eat junk food	Yes	No
Male	hamburger 500 pasta 600 fries 400 garlic bread 400 salad 200	sprite 400	1800	I never watch what i eat	No	No
Male	mashed potatoes pizaa garlic bread 650	water	2500	I never watch what i eat	No	No
Male	turkey mashed potatoes peas salad 800 Calories cookies 300 Calories	water	2500	I try to watch what I eat but I sometimes eat junk food	No	No
Male	chicken with stuffing 1000 shepards pie 1000 veggie chicken soup 500 cookie 1000	skim milk 250	3000	I try to watch what I eat but I sometimes eat junk food	Yes	No
Male	2 slices of pizza (buffalo	water	2350	I try to watch what I eat	Yes	No

	chicken) 700 both wrap with turkey hame and cheese 200			but I sometimes eat junk food		
Male	turkey 1100 mashed potatoes 400 cranberry sauce 300 2 cookies 600	apple juice 150	2400	I never watch what i eat	Yes	No
Male	turkey 200 mashed potatoes 250	kiwi strawberry jice 20	2000	I never watch what i eat	No	No
Male	Shepard's pie - 600 2 cookies - 250	water	2200	I try to watch what I eat but I sometimes eat junk food	Yes	No
Male	roast beef with cheese sandwich - 300 cookie 100 cherry pie 2-	-	2000	I try to watch what I eat but I sometimes eat junk food	Yes	No
Male	stuffed chicken 300 butternut squash - 100 peas and onions 75 2 cookies 200	milk (2 cups) - 200	2000	I never watch what i eat	No	No
Male	turkey 500 mashed potatoes 300 gravey 400 cranberry sauce 50 stuffing 150	water	2000	I try to watch what I eat but I sometimes eat junk food	Yes	No
Male	sauteed veggies - 300 shrimp pasta 500 3 cookies	hot chocolate 500 green tea with ice cream 800	5000	I never watch what i eat	No	Yes, but I never use it

		ı			I	,
Male	with ice cream 700 regular pasta with tomato sauce and cheese - 1000 4 pieces of garlic bread 1200 shepard's pie 800 cranberry	chocolate milk 200 diet coke	7000 (swimmer)	I never watch what i eat	No	No
	sauce 50 turkey 600 stuffed chicken 800	0				
Male	stuffed chicken 1300 steak sauce with sheppards pie 1000 mixed veggies 250 2-3 cookies 150 buffalo chicken pizza 500	powerrade 75 dr. pepper 100	5000 basketball	I never watch what i eat	No	No
Male	mashed potatoes 400 cranberry sauce 250 corn and peas 100 stuffed chicken 450	2% milk 150	4000 (runner)	I never watch what i eat	No	No
Male	squash 80 shepards pie 250 turkey and cheese sandwich - 120	apple peach juice 80	2200	I never watch what i eat	No	No
Male	3 beef patties (kosher) - 500 garlic bread 150 2 pieces of bread 80	water	2200	I try to watch what I eat but I sometimes eat junk food	Yes	No

## 12.3 Worcester Polytechnic Institute Healthy Eating Campaigns Survey Results

Have you seen the Cheerios commercials promoting this "healthy" cereal? If so, are you more inclined to buy Cheerios?	Have you seen the Yoplait commer cials promoti ng their light yogurt products ? If so, are you more inclined to buy this product ?	Have you seen the "Incredi ble Edible Egg" comme rcials? Do they influenc e you to eat more eggs or eat healthie r?	Have you ever visited MyPyrami d.gov to get informatio n about healthy eating?	Some of the items in the vending machines around campus have a "balanced option" sticker (denoted by a leaf). Have you seen this? If so, has it influenced your snack choice?	What can WPI do to promote healthy eating on campus?	What can the US Govern ment do to promote healthy eating in the United States?	Gend
No, I have not seen these commercials	Yes, I have seen these commerc ials but I ignored them	I have not seen these commer cials	I have never heard of MyPyramid .gov	I have not seen these stickers			Male
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have not seen these commer cials	I have never heard of MyPyramid .gov	I have not seen these stickers			Male
No, I have not seen these commercials	Yes, I have seen these commerc ials but I ignored them	I have not seen these commer cials	I have never heard of MyPyramid .gov	I have seen these stickers and I ignored them	Serve better food in cafe's	It's not the Governm ents responsi bility to make sure people eat healthy.	Male

						Every person in the US needs to take responsi bility for themselv es to become healthier.	
Yes, I have seen these commericals and they influenced me	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and I ignored them	I have never heard of MyPyramid .gov	I have seen these stickers and they helped me choose a snack	Place Calorie and fat information on the glass of the food lines in the cafeterias.	Stop talking about obesity issues and tax unhealth y foods. Live more like Europea ns where they go to the market on a daily basis to get healthier fresher foods.	Femal e
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and they have influenc ed me	I have never heard of MyPyramid .gov	I have not seen these stickers			Femal e
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials and they influence d me	I have not seen these commer cials	I have never heard of MyPyramid .gov	I have not seen these stickers			Femal e
Yes, I have seen these commericals and they influenced me	Yes, I have seen these commerc ials and	I have not seen these commer cials	I have never heard of MyPyramid .gov	I have seen these stickers and I ignored them			Femal e

	they influence d me						
No, I have not seen these commercials	Yes, I have seen these commerc ials but I ignored them	I have not seen these commer cials	I have never heard of MyPyramid .gov	I have not seen these stickers	Advertise healthy eating alternatives and make these alternatives available.	Make people more aware of the obesity problem and how the US is now the fat country in the world.	Male
No, I have not seen these commercials	No, I have not seen these commerc ials	I have not seen these commer cials	I have never heard of MyPyramid .gov	I have not seen these stickers			Male
No, I have not seen these commercials	No, I have not seen these commerc ials	I have not seen these commer cials	I have never heard of MyPyramid .gov	I have not seen these stickers	I am in the long distance learning program	encourag e people to exercise, forbid patents for animal and plant life, monitor effects fron corporati ons (Monsant o) who geneticall y incororat e herbicide s in crops (e.g., corn)	Male
No, I have not seen these commercials	No, I have not seen these commerc ials	I have not seen these commer cials	I have never heard of MyPyramid .gov	I have not seen these stickers		,	Femal e
No, I have not seen these	Yes, I have	I have not seen	I have never	I have not seen these			Femal e

commercials	seen these commerc ials and they influence d me	these commer cials	heard of MyPyramid .gov	stickers		
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and I ignored them	I have never heard of MyPyramid .gov	I have seen these stickers and they helped me choose a snack		Femal e
Yes, I have seen these commercials but I ignored them	No, I have not seen these commerc ials	I have not seen these commer cials	I have never heard of MyPyramid .gov	I have not seen these stickers		Femal e
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and they have influenc ed me	I have never heard of MyPyramid .gov	I have not seen these stickers		Femal e
Yes, I have seen these commercials but I ignored them	No, I have not seen these commerc ials	I have seen these commer cials and I ignored them	I have never heard of MyPyramid .gov	I have not seen these stickers		Femal e
Yes, I have seen these commericals and they influenced me	No, I have not seen these commerc ials	I have not seen these commer cials	I have never heard of MyPyramid .gov	I have not seen these stickers	Create less Governm ent Lower our taxes Stop spending money Stay out of our lives  Yeah that's	Male
					gonna happen!!!	

Yes, I have seen these commercials but I ignored them  No, I have not seen these commercials	Yes, I have seen these commerc ials and they influence d me No, I have not seen	I have seen these commer cials and I ignored them  I have not seen these	I have never heard of MyPyramid .gov  I have never heard of	I have not seen these stickers  I have not seen these stickers			Femal e Male
	these commerc ials	commer cials	MyPyramid .gov				
Yes, I have seen these commericals and they influenced me	No, I have not seen these commerc ials	I have not seen these commer cials	I have never heard of MyPyramid .gov	I have not seen these stickers	I do not know or care, I'm a grad student who is taking classes as part of the corporate education program, I am never on campus.	It's not the Governm ents job to promote healthy eating. It's the parents job to promote healthy eating and activity and to raise a child in a home where balanced meals are provided instead of fast food and video games all the time.	Femal
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials and they influence d me	I have not seen these commer cials	I have never heard of MyPyramid .gov	I have not seen these stickers			Femal e

No, I have not seen these commercials	No, I have not seen these commerc ials	I have not seen these commer cials	I have never heard of MyPyramid .gov	I have not seen these stickers	give healthy options out for free	switch from corn syrup to sugar, and to keep the farmers afloat use the corn for biofuels or somethin g like that	Male
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and I ignored them	I have never heard of MyPyramid .gov	I have not seen these stickers			Femal e
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have not seen these commer cials	I have never heard of MyPyramid .gov	I have seen these stickers and I ignored them	Offer more low-fat, vegetarian options. I do not have a gluten allergy, but more gluten free choices would be welcome as well.	Stop making processe d foods so cheap and stop making fruits and vegetabl es and organic foods so expensiv e so American s can eat better without spending a lot of money.  The restuaran t business should provide meals with smaller portions, too.	Femal e
No, I have not	No, I	I have	I have	I have not			Femal

acan thaca	have not	2000	novor	acan thaca	1	l	
seen these commercials	have not seen these commerc ials	these commer cials and I ignored them	never heard of MyPyramid .gov	seen these stickers			е
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and I ignored them	I have never heard of MyPyramid .gov	I have not seen these stickers			Femal e
Yes, I have seen these commericals and they influenced me	Yes, I have seen these commerc ials and they influence d me	I have seen these commer cials and I ignored them	I have never heard of MyPyramid .gov	I have not seen these stickers	offer healthier meal alternatives	ban trans fats and ban advertisin g of fast food establish ments on television	Femal e
Yes, I have seen these commericals and they influenced me	Yes, I have seen these commerc ials and they influence d me	I have seen these commer cials and I ignored them	I have never heard of MyPyramid .gov	I have not seen these stickers	Offer more healthy food options.	Limit junk food in vending machines - especiall y in schools. I do not know if this would be under Governm ent's jurisdictio n, but restauran ts (and other food providers) should cut back on portions.	Femal e
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials and	I have seen these commer cials and I	I have never heard of MyPyramid .gov	I have not seen these stickers	Make healthier options less expensive. Many	Food stamp or reimburs ement programs for a	Femal e

No, I have not	they influence d me	ignored them	I have	I have not	Americans are influenced in different directions more by their wallets than their waistlines. As an example, the exorbitant tax on cigarettes has resulted in more people quitting smoking than any antismoking campaign before.	wider set of American s that are only usable for fresh produce at farm stands/fa rmers' markets and the like. This would also support buy local campaig ns and financiall y uplift our agricultur al industry.	Femal
seen these commercials	have seen these commerc ials but I ignored them	not seen these commer cials	nave never heard of MyPyramid .gov	seen these stickers		healthy snacks in vending machines	e e
Yes, I have seen these commericals and they influenced me	Yes, I have seen these commerc ials and they influence d me	I have seen these commer cials and they have influenc ed me	I have never heard of MyPyramid .gov	I have not seen these stickers			Femal e
No, I have not seen these commercials	No, I have not seen these commerc ials	I have seen these commer cials and I ignored them	I have never heard of MyPyramid .gov	I have seen these stickers and I ignored them	fruit of the day on sale at campus center; promote healthy breakfast alternatives ; WPI - biggest loser contest;	SCHOOL S!!!!!!! - healthier lunches, banning soda machines and substituti ng bottled water/mil	Femal e

Yes, I have	No, I	I have	I have	I have not	weight loss program alternative to Weight Watchers such as "Transition s" - medical based; lunch time health seminars	k/juice and healthier items in vending machines . Make healthier food LESS EXPENS IVE and more available. Exercise campaig ns in schools and work places. Tax breaks for preventive services.	Femal
seen these commericals and they influenced me	have not seen these commerc ials	not seen these commer cials	never heard of MyPyramid .gov	seen these stickers	Coyote Jack's. Have healthy eating seminars with good- tasting healthy food samples and recipes.	facts about health problems related to obesity.	е
Yes, I have seen these commercials but I ignored them	No, I have not seen these commerc ials	I have seen these commer cials and they have influenc ed me	I have never heard of MyPyramid .gov	I have not seen these stickers	they now list weight watcher points on the daily menu	better advertisin g in the markets	Femal e
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored	I have seen these commer cials and I ignored	I have never heard of MyPyramid .gov	I have not seen these stickers			Femal e

	them	them					
Yes, I have seen these commericals and they influenced me	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and I ignored them	I have never heard of MyPyramid .gov	I have not seen these stickers			Male
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and they have influenc ed me	I have never heard of MyPyramid .gov	I have not seen these stickers	Portion control would be one thing to focus on - this also keeps the cost down. I'd also like to see more gluten-free options.	Perhaps require that every restauran t posts the health facts in the menu rather than on an optional leaflet. I think a lot of people would be surprised how unhealth y some of the seemingl y healthy foods are when dining at a restauran t.	Femal
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and I ignored them	I have never heard of MyPyramid .gov	I have not seen these stickers			Femal e
No, I have not seen these commercials	No, I have not seen these commerc ials	I have not seen these commer cials	I have never heard of MyPyramid .gov	I have not seen these stickers	More healthy + affordable choices in the campus center.	Revamp the farm bill to reduce the favoritism shown to	Male

						large-	
						scale agribusin	
						esses	
						like	
						Archer	
						Daniels	
						Midland,	
						and to instead	
						promote	
						local	
						productio	
						n of food.	
Yes, I have	Yes, I	I have	I have	I have not	change the	Increase	Femal
seen these commericals	have	seen	never	seen these	way they serve food	awarene	е
and they	seen these	these commer	heard of MyPyramid	stickers	in the food	ss for high	
influenced me	commerc	cials	.gov		court.	quality	
	ials but I	and I	1901		Instead of	vegetaria	
	ignored	ignored			being given	n meals,	
	them	them			huge	increase	
					servings,	number	
					we should be allowed	of vegetaria	
					to self-	n options	
					serve and	on	
					pay by	menus	
					weight (like	(and I'm	
					the salad	NOT	
					bar). Current	vegetaria n!)	
					serving	besides	
					sizes are	just	
					enough for	salads or	
					two meals.	french	
					Not enough	fries!	
					quality vegetarian	Offer whole	
					options.	foods,	
					Vegetarian	not	
					s do not	processe	
					want to eat	d junk.	
					cheese-	Avoid	
					based food all the time,	fake sweetene	
					or pasta. If	rs. Get	
					those	rid of	
					meals were	promotio	
					more	nal	
					interesting,	restauran	
					non-veg students	t advertisin	
					would be	g that	
					also more	encourag	
					likely to	es	

	I	1	1	1	1	T .	
					order them.	people to	
					Food court	order an	
					food in	entree	
					general is	AND	
					fatty,	desert. Cut	
					cheesy,		
					has too much	portion	
					gravy, etc.	serving sizes	
					The salad	dramatic	
					bar is	ally, or	
					reasonable,	offer	
					but all cold	small	
					foods, and	plate or	
					rarely	large	
					changes.	plate	
					Why do we	options.	
					even HAVE	Sodas	
					the "fast	should	
					food"	be 8oz	
					option	per	
					there in the	serving,	
					back	not jugs.	
					corner?	Produce	
					Yuck! Way	should	
					too much	be .	
					soda	organic.	
					available.	You	
						should	
						not be allowed	
						to buy	
						food in	
						places	
						like drug	
						stores,	
						where	
						they offer	
						long	
						shelf-life	
						"snacks"	
						that are	
						highly	
						processe	
						d (full of	
						chemical	
						s).	
Yes, I have	Yes, I	I have	I have	I have not	Offer a	The	Male
seen these	have	not seen	never	seen these	wider	Governm	
commercials	seen	these	heard of	stickers	variety of	ent	
but I ignored	these	commer	MyPyramid		foods,	should	
them	commerc	cials	.gov		more dining	stay out	
	ials but I				halls,	of affairs	
	ignored				restaurants	like this,	
	them				, etc.	it isnt	
		Ì				upto the	

	1	1				Covernm	
						Governm	
						ent to	
						babysit	
						people's	
No. I have not	No, I	I have	I have	I have not	Promote	diets.	Femal
No, I have not	· ·					Again,	
seen these	have not	seen	never	seen these	Michelle Obomolo	promote	е
commercials	seen	these	heard of	stickers	Obama's	Michelle	
	these	commer cials	MyPyramid		healthy	Obama's	
	commerc ials	and they	.gov		eating	healthy eating	
	iais	_			campaign.	_	
		have influenc			Eliminate	campaig	
		ed me			the poor	n. Remove	
		eame			quality		
					snacks. I know for	junk food	
						vending machines	
					myself, if I do not buy	from	
					it at the		
					grocery	every school	
					store I can't	property	
					have it at	(including	
					home.	soda).	
					We know	Remove	
					that visuals	junk food	
					are	choices	
					effective:	from the	
					have big	school	
					posters	lunches,	
					featuring	OR offer	
					fruits or	free	
					vegetables.	healthy	
					Ideally, free	food.	
					healthy	One's	
					choices vs	definition	
					costly	of	
					snacks. I	healthy	
					would	can be	
					imagine our	extremel	
					junk food	y loose. I	
					vendors	knew a	
					would have	woman	
					a problem	who	
					with that,	sincerely	
					but I do not	believed	
					care. I do	that if her	
					not think	son ate	
					they should	Fig	
					be allowed	Newtons	
					(on any	he was	
					school	having a	
					campus)	serving	
					but I bet	of fruit	
					WPI makes	and if he	
					money off	ate	
					of them. So	french	

	1	1	1				
					the first	fries he	
					step is to	was	
					stop being	having a	
					hypocritical	vegetabl	
					and taking	e. Junk	
					money	food is	
					from junk	another	
					food	mega	
					operations.	industry	
					I would be	that	
					happy to	would	
					walk	fight	
					around	labeling	
					Morgan	them as	
					and the	simply	
					Quad with	junk.	
					a sandwich		
					board that	Many	
						ignorant	
					says "Stop	American	
					Eating	s (and	
					Crap!"	that's	
					Karen	most of	
					Rossow,	us) think	
					staff	that if a	
						product	
						is sold as	
						food then	
						it is safe	
						to	
						eatwhic	
						h is of	
						course	
						nonsens	
						e in a	
						capitalisti	
						c society	
						where	
						we'll	
						serve	
						cow to	
						cows if it	
						costs	
						less than	
						grain.	
						Sorry for	
						the rant,	
						but I	
						could pull	
						together	
						a discortati	
						dissertati	
						on on	
						this in 3	
	Yes !	11.	11.	11	1.(1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	hours.	<b>F</b>
Yes, I have	Yes, I	I have	I have	I have not	I think WPI	Healty	Femal
seen these	have	seen	never	seen these	offers a	eating	е

commercials but I ignored them	seen these commerc ials but I ignored them	these commer cials and they have influenc ed me	heard of MyPyramid .gov	stickers	good number of healthy alternatives already (i.e. fresh fruit in the campus center.) But it would be helpful if they could provide more nutritional information on the entrees they serve. They do provide the Points for some meals. But I would like to see it for more meals so that I can plan my day accordingly	starts with being educated on what is and is not healthy. Beyond providing people with informati on, I do not think the gov't should really be involved.	
Yes, I have seen these commericals and they influenced me	Yes, I have seen these commerc ials and they influence d me	I have seen these commer cials and they have influenc ed me	I have never heard of MyPyramid .gov	I have not seen these stickers	Have more healthy alternatives ie, try having a healthier alternative over with the pizza and other entres.		Femal e
Yes, I have seen these commericals and they influenced me	Yes, I have seen these commerc ials and they influence d me	I have not seen these commer cials	I have never heard of MyPyramid .gov	I have not seen these stickers	Have a monthly meeting for employees with a registered dietician/nu tritionist. Have it cover healthy eating for adults and families.	Advertise on TV. American s watch so much TV, I think the only way to get through to people is on TV. Gear the advertisin	Femal e

					Have a "Biggest Loser" contest on campus. My aunt's employer has done this for 2 years now. It's by department and individual.  Promote area events, like walk-a- thons and marathons.	g to all ages and at all times of day. Also they should be advertisin g on the internet, like social networkin g sitesFa cebook, Twitter and such.  Have a tax deduction for all gym/fitne ss expenses! That would get people	
No, I have not seen these commercials	No, I have not seen these commerc ials	I have seen these commer cials and I ignored them	I have never heard of MyPyramid .gov	I have not seen these stickers	sometimes the food court menu that is emailed out includes Weight Watchers points for certain items on the menu. I think this is helpful.  More (reasonably priced) healthy 'to- go' snack options would help. Example: carrots and	moving!!  Vegetabl es are expensiv e. When budgets are tight, families reach for satisfying , inexpensi ve meals, like pasta, eggs, and prepared foods which may are not as healthy.	Femal e

	celery with	same
	a low-fat	thing
	dip or fruit	happens
	with yogurt	in the
	dip snack	public
	cups.	schools.
	oups.	When
	l think	
	I think	faced
	some	with
	people shy	feeding
	away from	hundreds
	heavier	or
	items on	thousand
	the salad	s of kids
	bar	in a short
	because	amount
	they are	of time, it
	paying per	is easier
	ounce for	to
	the salad.	prepare
	This does	less
	not	healthy
	promote	options
	healthy	for quick
	eating.	bulk
	camiy.	distributio
		n. Schools
		need to
		find
		healthy
		foods
		that kids
		will eat.
		Since
		more
		prep time
		is
		needed
		to
		prepare
		things
		like
		salads or
		cut fruit
		or grilled
		vegetabl
		es and
		the like,
		schools
		will need
		increase
		d
		budgets
		to staff
		adequate

			ly for this.
			Healthy
			eating
			alone
			won't
			solve the
			obesity
			issues
			facing
			the US.
			Long
			work and
			school
			days
			have led
			to
			increase
			d
			inactivity
			in the
			United
			States,
			most
			students
			and
			workers
			spend 8
			or more
			hours
			sitting
			behind a
			desk and
			then
			more
			inactive
			time
			doing
			homewor
			k or
			commuti
			ng to and
			from
			work
			leading
			to up to
			10 hours
			of
			inactive
			time
			each
			day.
			There
			are fewer
			and fower US
			fewer US

_		 T		
				jobs that
				require
				physical
				activity.
				Until we
				as a
				society
				embrace
				the idea
				of
				changing
				our
				priorities,
				reducing
				work
				days,
				work
				weeks
				and
				school
				days
				(+homew
				ork time)
				and
				decide to
				focus
				more on
				integratin
				g active
				time into
				our day
				(not as
				discretion
				ary, but
				as a
				necessar
				y part of
				each
				day),
				then the
				problem
				will
				continue
				to get
				worse.
				No
				amount
				of
				healthy
				eating
				will make
				up for the
				lack of
				physical
				activity
	1	I	1	

						that is becomin g the norm in our society.  Perhaps desks should come floor pedals so people can exercise while reading their email and filling out online surveys.;)	
No, I have not seen these commercials	No, I have not seen these commerc ials	I have seen these commer cials and I ignored them	I have never heard of MyPyramid .gov	I have not seen these stickers			Male
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have not seen these commer cials	I have never heard of MyPyramid .gov	I have not seen these stickers			Femal e
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have not seen these commer cials	I have never heard of MyPyramid .gov	I have seen these stickers and they helped me choose a snack	WPI already does a pretty good job of offering healthy eating options. I would love to see a wider variety of healthy snack and	Introduce stict regulatio ns to eliminate all the crap that compani es put into processe d foods. Increase subsidies to	Femal e

Yes, I have seen these commericals and they influenced me  Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and I ignored them	I have never heard of MyPyramid .gov  I have never heard of MyPyramid .gov	I have seen these stickers and they helped me choose a snack  I have seen these stickers and I ignored them	Provide better vegetable dishes in the campus center. How can you mess up steamed vegetables? It's difficult, but they manage to ruin it somehow.	organic farmers and local distributo rs to make organic/l ocal food more affordabl e and to discoura ge large corporati ons from following business models based on wide distributio n of over-homogen ized, over-processe d foods.  Tax junk food, discount healthy food. It's too late anyway, there are too many enormou sly fat people now.	Male
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored	I have seen these commer cials and I ignored	I have never heard of MyPyramid .gov	I have seen these stickers and they helped me choose a snack	I think that the weight watchers options at the campus center is a good idea.	get educatio n into the schools like sex ed classes	Male

La	1	1			T 1
them	them		salads tend	there	
			to be very	should	
			expensive	be a	
			at the	mandator	
			campus	y nutrion	
			center so	class to	
			people may	give	
			not get	people	
			them.	the tools	
			provide	to	
			Calorie	understa	
			postings for	nd what	
			all the	they are	
			foods.	putting in	
			when you	their	
			look at the	bodies.	
			Quizno site	Crack	
			and get the	down on	
			nutritional	the	
			information	claims of	
			for their	"lite" and	
			"Honey	"healthy"	
			Mustard	on	
			Chicken	packagin	
			Salad" you	g.	
			can see	g.	
			that there is		
			1090		
			Calories,		
			23.5g		
			saturated		
			fat and		
			1830mg		
			sodium.		
			someone		
			my think		
			"hey I had		
			a salad		
			today for		
			lunch that		
			was		
			was healthy"		
			Also		
			sodium is a		
			big problem		
			and it never		
			seems to		
			be addressed.		
			for anyone		
			with high		
			blood		
			pressure or		
			at risk this		
			can be a		
			major		

					factor in		
					their health.		
					Maybe offer a		
					class with a		
					nutritionist		
					that would		
					give people		
					the basics of how to		
					read a		
					nutritional		
					label the		
					"lite" and "low-fat"		
					marketing		
					on		
					packages		
					may not translate to		
					the most		
					healthy		
Van Ilhaus	\/ I	Lham	1 1	I become a	option.	a lina in a ta	Famal
Yes, I have seen these	Yes, I have	I have not seen	I have never	I have not seen these		eliminate supersizi	Femal e
commercials	seen	these	heard of	stickers		ng, free	
but I ignored	these	commer	MyPyramid			refills of	
them	commerc ials and	cials	.gov			sodas and	
	they					amount	
	influence					of TV	
	d me					and	
						video games	
						watched	
						at home.	
						PEOPLE	
						NEED TO GO	
						OUTSID	
						E AND	
						SIMPLY	
						MOVE!!!!	
No, I have not	No, I	I have	I have	I have not			Femal
seen these	have not	not seen	never	seen these			е
commercials	seen these	these commer	heard of MyPyramid	stickers			
	commerc	cials	.gov				
	ials				A		
Yes, I have seen these	No, I have not	I have seen	I have never	I have not seen these	As far as WPI goes,	I doubt the US	Male
commercials	seen	these	heard of	stickers	to me it's	Governm	
but I ignored	these	commer	MyPyramid		more about	ent really	
them	commerc	cials	.gov		what's	cares	
	ials	and I			used in the	about	

ignored		cooking as	healthy	
them		opposed to	eating	
		doing	despite	
		something	Michelle	
		in	Obama's	
		particular.	newfoun	
		For	d	
			-	
		example	endeavor	
		43.11	to attack	
		1) Use less	obesity.	
		oil and		
		butter and	That	
		their	said, the	
		cooking in	Governm	
		the campus	ent could	
		center	step up	
		food.	and give	
		2) Use	breaks/cr	
		lower fat	edits to	
		oils when	compani	
		cooking.	es that	
		3) ALWAYS	produce and see	
		have 100%	natural/or	
		olive oil	ganic	
		available	products	
		for salads	(i.e.	
		as opposed	those	
		to the	you see	
		cheaper	at Whole	
		mixed	Foods or	
		blend.	Trader	
		4) Have	Joe's)	
		options that	only if	
		do not	they	
		contain	lower	
		heavy	their	
		amounts of	prices to	
		cheese /	make	
		cream in	such	
			food	
		cooking		
		5) Prepare	accessibl	
		food in a	e to	
		different	everyone	
		manner;	as	
		very rarely	opposed	
		if ever do I	to the	
		see a	upper-	
		steamed	middle	
		dish.	class	
		-	populatio	
			n. They	
			could	
			also give	
			such	
			benefits	

	1		1	T	1		, ,
						to compani es who use real sugar as opposed to high fructose corn syrup in their products You get the idea	
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and I ignored them	I have never heard of MyPyramid .gov	I have not seen these stickers			Male
No, I have not seen these commercials	No, I have not seen these commerc ials	I have not seen these commer cials	I have never heard of MyPyramid .gov	I have not seen these stickers			Femal e
No, I have not seen these commercials	Yes, I have seen these commerc ials and they influence d me	I have seen these commer cials and I ignored them	I have never heard of MyPyramid .gov	I have seen these stickers and they helped me choose a snack	I think chartwells does a fine job.	PSAs!	Male
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have not seen these commer cials	I have never heard of MyPyramid .gov	I have not seen these stickers		Make healthy food less expensiv e and more convient and/or make it harder/m ore expensiv e to buy the unhealth y foods	Male
Yes, I have seen these	Yes, I have	I have not seen	I have never	I have not seen these	Products that are	Have a healthy	Femal e

commericals and they influenced me	seen these commerc ials and they influence d me	these commer cials	heard of MyPyramid .gov	stickers	classify as "healthy" should be sold at a lower price. Promote this decision through emails and also poster in front of the store/vendi ng machine.	eating week/mo nth where schools should do presentat ion/prom otion of healthy eating.	
Yes, I have seen these commercials but I ignored them	No, I have not seen these commerc ials	I have seen these commer cials and I ignored them	I have never heard of MyPyramid .gov	I have not seen these stickers	Allow meal plan members to have all-day access to come in and eat smaller portions throughout the day. All you can eat should be called Overeat!	figure out a way to cut the cost of healthy food. Many people are on a limited budget and have to feed 2 or more children. You can't blame them for buying food that is less healthy but inexpensi ve. Have you ever tried buying fruit and vegetabl es and lean meats for a 7 day period. It is well over \$100.00 This is the major	Male

						reason as to why people do not eat healthier.	
Yes, I have seen these commericals and they influenced me	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and I ignored them	I have never heard of MyPyramid .gov	I have seen these stickers and I ignored them	Healthier options at dining halls.	Healthier options in public schools, museum s, etc.	Femal e
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and I ignored them	I have never heard of MyPyramid .gov	I have seen these stickers and they helped me choose a snack			Male
No, I have not seen these commercials	No, I have not seen these commerc ials	I have seen these commer cials and I ignored them	I have never heard of MyPyramid .gov	I have not seen these stickers			Male
Yes, I have seen these commericals and they influenced me	Yes, I have seen these commerc ials but I ignored them	I have not seen these commer cials	I have never heard of MyPyramid .gov	I have not seen these stickers	Healthier food in vending machines on campus.	Establish healthy- food database s.	Male
No, I have not seen these commercials	No, I have not seen these commerc ials	I have not seen these commer cials	I have never heard of MyPyramid .gov	I have not seen these stickers			Male
Yes, I have seen these commercials but I ignored them	No, I have not seen these commerc ials	I have not seen these commer cials	I have never heard of MyPyramid .gov	I have not seen these stickers	More information on nutrition, balanced diet	PSAs perhaps, Michelle Obama's recent message s about healthy lifestyle are goodw e need	Male

	1	1	1	T	1	I	1
						better	
						educated	
						parents	
						in re: diet	
Yes, I have	No, I	I have	I have	I have not	Reduce the	Put limits	Male
seen these	have not	seen	never	seen these	AVAILABIL	on the	
commercials	seen	these	heard of	stickers	ITY of high	allowable	
	these	commer		Stickers		salt	
but I ignored			MyPyramid		fat or high		
them	commerc	cials	.gov		sugar	content	
	ials	and I			snack	of ALL	
		ignored			foods.	package	
		them				d foods,	
						not just	
						snack	
						foods. If	
						this	
						means	
						that chips	
						won't	
						taste as	
						good, the	
						goal will	
						have	
						been	
						met. But	
						first,	
						require all	
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						numuona	
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						examples	
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						serving	
						sizes: 4/5	
						of a	
						pickle,	
						half a	
						can of	
						soda,	
						half a	
						can of	
						tuna fish	
						(which is	
						already	
						smaller	
			]		]	than it	

						was just a few years ago).	
Yes, I have seen these commercials but I ignored them	No, I have not seen these commerc ials	I have seen these commer cials and I ignored them	I have never heard of MyPyramid .gov	I have not seen these stickers	Offer those healthy idems at a cheaper prise.	Prepare our crops and such in a more healthy environm ent.	Male
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials and they influence d me	I have seen these commer cials and I ignored them	No	I have seen these stickers and I ignored them			Femal e
No, I have not seen these commercials	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and I ignored them	No	I have seen these stickers and I ignored them			Male
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and I ignored them	No	I have not seen these stickers			Male
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and I ignored them	No	I have seen these stickers and they helped me choose a snack			Femal e
Yes, I have seen these commercials but I ignored them	No, I have not seen these commerc ials	I have not seen these commer cials	No	I have seen these stickers and I ignored them			Femal e
No, I have not seen these commercials	No, I have not seen these	I have not seen these commer	No	I have not seen these stickers			Male

	commerc ials	cials					
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and I ignored them	No	I have seen these stickers and I ignored them			Male
Yes, I have seen these commercials but I ignored them	No, I have not seen these commerc ials	I have seen these commer cials and they have influenc ed me	No	I have not seen these stickers			Male
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have not seen these commer cials	No	I have not seen these stickers	Cheaper rates on salads.		Femal e
Yes, I have seen these commericals and they influenced me	No, I have not seen these commerc ials	I have seen these commer cials and they have influenc ed me	No	I have not seen these stickers			Femal e
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials and they influence d me	I have seen these commer cials and I ignored them	No	I have not seen these stickers	Eliminate most junk foods from the cafeteria and just offer healthy options. Or make the junk food more expensive so people tend to buy healthy foods.	Have more programs for healthy eating, have more ads on TV, and reach to the community.	Femal e
Yes, I have seen these commericals	Yes, I have seen	I have seen these	No	I have seen these stickers and they		funding for health classes	Femal e

and they influenced me	these commerc ials but I ignored them	commer cials and they have influenc ed me		helped me choose a snack		in schools (all grade levels), funding for improved cafeteria choices, free fruit in schools	
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials and they influence d me	I have not seen these commer cials	No	I have seen these stickers and they helped me choose a snack			Femal e
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and I ignored them	No	I have not seen these stickers			Femal e
No, I have not seen these commercials	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and I ignored them	No	I have not seen these stickers			Male
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and I ignored them	No	I have not seen these stickers	Do not sell or make available junk food, soda, or other highly processed food.	Ban junk food, soda, or other highly processe d food from the school system (public and private). Tax overweig ht people to compens ate for	Femal e

Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and they have influenc ed me	No	I have seen these stickers and they helped me choose a snack	have more fresh food, i.e. veggies	the drain on helathcar e.  Continue the campaig ns to educate the public, and start with younger children	Femal e
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and I ignored them	No	I have seen these stickers and I ignored them	Keep offering fresh, healthy alternatives . But do NOT take away other choices as people prefer to make up their own minds in what they choose to eat. Taking this option away would create disharmony	in school.	Female
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and I ignored them	No	I have not seen these stickers			Femal e
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and I ignored them	No	I have not seen these stickers	Get rid of Chartwells		Femal e
Yes, I have seen these	Yes, I have	I have seen	No	I have not seen these			Femal e

commericals	seen	these		stickers			
and they influenced me	these commerc ials and they influence d me	commer cials and I ignored them					
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and I ignored them	No	I have not seen these stickers			Femal e
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have not seen these commer cials	No	I have not seen these stickers			Male
No, I have not seen these commercials	No, I have not seen these commerc ials	I have not seen these commer cials	No	I have not seen these stickers	Offer healthier choices, less sugar, more whole grain products both at food venues and in vending machines.	Public service campaig ns in multiple media, social networkig n sites, celebrity spokespe rsons that appeal to various age levels.	Femal e
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and I ignored them	No	I have not seen these stickers	The menu in the campus center food court seems to offer a wide and well balanced selection (except for the donuts!).	Educate citizens on healthy food habits, discoura ge cheap fast food choices, stop emphasiz ing "extra large portions" on TV	Femal e

						ads.	
No, I have not seen these commercials	No, I have not seen these commerc ials	I have not seen these commer cials	No	I have not seen these stickers	Get rid of Dunkin Donuts (much as I like it).	Make the food pyramid (why is it a pyramid in its new form?) much less confusing	Male
						Encourag e/enable more gym classes in school. Make the students really get exercise in gym.	
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and I ignored them	No	I have not seen these stickers		I do not think it is the Governm ent's job to "promote " this type of thing. They try to do way too much as it is and we are going bankrupt.	Male
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and I ignored them	No	I have seen these stickers and I ignored them			Femal e
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc	I have seen these commer cials	No	I have not seen these stickers			Femal e

	ials but I ignored them	and I ignored them					
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials and they influence d me	I have seen these commer cials and I ignored them	No	I have not seen these stickers	My problem is that I have Celiac Disease and most of the snack-type options on campus I cannot eat. I bring most of my own stuff in as it's safer for me.	I do not really know. I feel the gov't has their nose in too many things anyway. They should be concentr ating on certain other things, in my opinion.	Femal e
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and they have influenc ed me	No	I have not seen these stickers	Add nutrient/sug ar/fat info on foods offered.	Education is helpful. Perhaps the Government can influence vending choices in k12's.  Working on the problem of food deserts, or the problem with local stores not carrying healty foods.	Male
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and I ignored them	No	I have not seen these stickers	Offer more healthy options available in the later evening hours and early	10005.	Male

	I	<u> </u>	1		morning:	I	
					morning hours.		
					Have the dining hall - Morgan, allow for a staff/faculty /alacarte pricing for meals.		
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and I ignored them	No	I have not seen these stickers	Put nutritional information (Calories, fat, salt, etc) on all menu choices (post signs in Chartwells, etc). Seems invasive but I think it'd be effective.	I think they're doing what they can - any more might start to feel Big Brothery	Male
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and they have influenc ed me	No	I have not seen these stickers		Bllions of dollars are spent each year on caring for diseases that are the result of being overweig ht: diabetes, high blood pressure, heart disease, etc. The Governm ent should require all health care plans to rebate	Femal e

						premium dollars to anyone who has maintain ed a healthy weight over a one-year period.	
Yes, I have seen these commericals and they influenced me	Yes, I have seen these commerc ials and they influence d me	I have seen these commer cials and I ignored them	No	I have not seen these stickers	Provide healthier choices.		Femal e
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have not seen these commer cials	No	I have not seen these stickers	I believe they are trying to offer more healthy snacks and meals on campus now.		Femal e
No, I have not seen these commercials	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and I ignored them	No	I have not seen these stickers	More healthy options. Chartwells does a crappy job.	More healthy fast food chains	Male
Yes, I have seen these commericals and they influenced me	No, I have not seen these commerc ials	I have not seen these commer cials	No	I have not seen these stickers	Healthy options in the dining halls and student center. We're doing a pretty good job with this, but more information on Calories, fat and fiber would be helpful.	More informati on that is easily translata ble to whether somethin g is healthy, including prominen t and realistic portion size informati on.	Male

Yes, I have	Yes, I	I have	No	I have not			Femal
seen these commercials but I ignored them	have seen these commerc ials but I ignored them	seen these commer cials and I ignored them		seen these stickers			е
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and I ignored them	No	I have not seen these stickers	Serve more foods that are lower in sodium, fat, sugar and cholesterol; eliminate foods with hydrogenat ed fats, MSG, HFCS, high sugar content, artificial colors and preservativ es; serve free range meats and eggs and oganic vegetables and salads.	Ban hydrogen ated fats, MSG, HFCS, artificial colors and preservat ives. Support organic farmers.	Femal e
No, I have not seen these commercials	No, I have not seen these commerc ials	I have not seen these commer cials	No	I have not seen these stickers	WPI is doing a fine job with promoting healthy eating. However, I never purchase any food on campus. Everything I eat at WPI was homemade in my kitchen and heated in the microwave. I raise my own lamb meat, fruits, and	Michelle Obama is doing a great job address the issues of obesity and diet. I hope that more leaders and celebritie s will take on this task as well. Sadly, healthy eating is often expensiv e in	Femal e

Yes, I have Yes, I I have No I have seen these have seen these commercials seen these and I ignored Male	seen these have	seen	No	these stickers	live my lifestyle, I spend most of my free time outside our work in kitchen, my gardens, and the local farmer's market. Healthy eating is part of the lifestyle that I was raised with as a child. Growing up my peers shunned me for eating weird, healthy stuff. I was envious of my classmate's lunches packed with Cheetos, Hostess Cupckaes, and chips. At the age of 50 now, my eating habits are now fashonable!	healthy eating habits in order to be role models for their children.	Male
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but I ignored them	these commerc ials but I ignored them	commer cials and I ignored them		them			
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and I ignored them	No	I have not seen these stickers	Offer healthy options at discounted rates or give samples away for free. Anything to make the healthy options more attractive than the unhealthy (since apparently just being healthy isn't enough to make everyone switch over).	I think starting with school lunches is a good idea, to build healthy eating habits in at a young age.	Male
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials and they influence d me	I have not seen these commer cials	No	I have not seen these stickers	Make healthy eating just as easy as/easier than eating junk food.		Femal e
Yes, I have seen these commercials but I ignored them	No, I have not seen these commerc ials	I have seen these commer cials and I ignored them	No	I have not seen these stickers			Male
Yes, I have seen these commercials but I ignored them	No, I have not seen these commerc ials	I have seen these commer cials and I ignored	No	I have not seen these stickers	remove candy and soda vending machines		Femal e

		them					
No, I have not seen these commercials	No, I have not seen these commerc ials	them I have not seen these commer cials	No	I have seen these stickers and I ignored them	Get rid of the Moo Bella machine, and stop soaking everything made by the campus center in oil. Literally, the *only* healthy option	Stop giving unbelieva bly huge subsidies to farmers who produce crops used in making high fructose corn	Femal e
					there most days (that is, the days when low- sodium vegetable soup isn't available) is the salad bar, and since that somehow never fails	syrup and other cheap additives that add to the problem of lower- class obesity because they're used in	
					to give me diarrhea, I've brought my own lunches since the first week I arrived here.	cheap, disgustin g food- like products ? Get former Monsant o lawyers the fuck out of our	
					definitely enables nerd obesity by serving total shit e.g., pizza, fried chicken, and Red Bullin the campus center.	Governm ent? (currently they've got a Supreme Court justice (Clarenc e Thomas), and in the past they've had the Secretary	

		 of
		Agricultur
		e (Anne
		Veneman
		), and
		even the
		last
		Secretary
		of Health
		(Tommy
		Thompso
		n).) Stop
		staffing
		the
		USDA
		with
		governor
		s of farm
		states?
		(That's
		been the
		case for
		the last
		11
		years).
		Stop the
		dairy
		subsidies
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		Do away
		with the
		ridiculous
		nutrition
		guides
		printed
		on the
		backs of
		every
		Triscuit
		box I've
		ever
		owned,
		that tell
		me I
		need to
		be eating
		dairy,
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			*everythi
			ng* in the
			food,
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			rid of the
			nastily
			misleadin
			g 'natural
			flavors'
			item that
			many
			manufact
			urers use
			to
			disguise
			the
			presence
			of things
			like beef
			fat?
			Yes,
			there are
			a *lot* of
			things
			the US
			Governm
			ent could do to
			promote healthy
			eating, or
			at least
			to start
			promotin
			g less
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						tly reduced fattier foods. This would include increase d activity for children.	
Yes, I have seen these commercials but I ignored them	No, I have not seen these commerc ials	I have not seen these commer cials	No	I have not seen these stickers	Just have offerings available It can post nutritional posters more clearly by food areas esp in campus center but I do not think taht makes much difference	work within elementa ry schools with educatio nal pieces Introduce more veggies and the like into food programs and food stamps.	Male
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and I ignored them	No	I have not seen these stickers			Femal e
Yes, I have seen these commercials but I ignored them	No, I have not seen these commerc ials	I have not seen these commer cials	No	I have seen these stickers and they helped me choose a snack			Male
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have not seen these commer cials	No	I have not seen these stickers			Male
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc	I have seen these commer cials	No	I have seen these stickers and they helped me choose a	Provide greater availability for healthy snacks, via	Develop a business model that	Male

1				
ials but I	and I	snack	vendor	encourag
ignored	ignored		machines	es the
them	them		or food	manufact
			services.	ure and
			For	sale of
			example,	healthy
			there are	foods
			several	(eg.
			classroom	organic
			buildings	or low-
			with NO	fat, or
				steroid-
			vending	
			services.	free,
			This drives	antibiotic-
			hungry	free
			consumers	products)
			towards a	relative
			"first	to cheap,
			available"	unhealth
			food choice	y foods.
			instead of	For
			allowing	example,
			them to	it cost A
			make a	LOT
			smart	
			decision.	more
			decision.	money
				for me to
				feed my
				family of
				4 healthy
				meals
				(produce
				from
				Whole
				Foods,
				etc),
				than it
				does to
				feed my
				family
				cheap,
				fast food.
				We have
				the
				priviledge
				of being
				able to
				make
				that
				choice,
				but most
				American
				s on tight
				budgets
				do not.
1				Unhealth

Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc	I have seen these commer cials	No	I have not seen these stickers		y, processe d foods are the cheapest and easiest option. The result is increase d heart disease, diabetes and health care costs.	Male
	ials and they influence d me	and they have influenc ed me					
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and they have influenc ed me	No	I have not seen these stickers	Continued healthy food options available in the dining areas.	Promote educatio n starting at a young age, subsidize farmers who grow fresh, healthy foods, put limits on amounts of "bad" foods (high fructose corn syrup, transfat) that can be used as additives, etc.	Femal e
No, I have not seen these	Yes, I have	I have not seen	No	I have not seen these			Male

commercials	seen these commerc ials but I ignored them	these commer cials		stickers			
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and I ignored them	No	I have not seen these stickers	Instituting a "buy local" campaign would result in healthier eating habits and a better environmen t (less transportati on costs to transport junk foods, less food packaging)		Femal e
No, I have not seen these commercials	No, I have not seen these commerc ials	I have seen these commer cials and I ignored them	No	I have not seen these stickers	Lower the prices of Quizzno's. Bad food is cheaper than healthier food	Lower the price of healthier food and increase the price of bad food.	Femal e
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and I ignored them	No	I have not seen these stickers			Femal e
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and I ignored them	No	I have not seen these stickers			Femal e
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored	I have seen these commer cials and I ignored	No	I have not seen these stickers	-you know you loaded the previous question with it's wording?	-I think is more an issue of what consume rs need to do. If	Male

them them them seen these commercials but I ignored them them them them them them them them		them	them			-Campus	we buy	
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Yes, I have	Yes, I	I have	No	I have not	Offer a	I'm not	Femal
seen these commercials but I ignored them	have seen these commerc ials but I ignored them	seen these commer cials and I ignored them		seen these stickers	good variety of food choices in the foodcourt and dining room.	sure.	е
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials and they influence d me	I have seen these commer cials and I ignored them	No	I have not seen these stickers	promote the benefits of eating healthy rather than just slick advertising for the sake of advertising.	This may sound somewha t brash-but allow the Darwinia n process to take place and spend less of our taxes on informing people about what should be common sense anyway. Is it an educatio n issue or a common sense issue? I'm not sure.	Male
Yes, I have seen these commericals and they influenced me	No, I have not seen these commerc ials	I have not seen these commer cials	No	I have seen these stickers and they helped me choose a snack	Put the right food in the healthy choice vending options. I have purchased snacks from them that were high in fat.		Male
No, I have not	Yes, I	I have	No	I have seen	more food		Femal

seen these commercials	have seen these commerc ials and they influence d me	not seen these commer cials		these stickers and I ignored them	choice at the dinning hall or food court		е
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials and they influence d me	I have seen these commer cials and I ignored them	No	I have not seen these stickers			Male
No, I have not seen these commercials	No, I have not seen these commerc ials	I have seen these commer cials and I ignored them	No	I have seen these stickers and I ignored them	I do not know.	Ban McDonal d's, Wendy's, and Burger King. Or spend as much on advertisin g healthy options as they do on unhealth y options.	Male
Yes, I have seen these commercials but I ignored them	No, I have not seen these commerc ials	I have not seen these commer cials	No	I have not seen these stickers		у ориене	Male
Yes, I have seen these commericals and they influenced me	Yes, I have seen these commerc ials and they influence d me	I have not seen these commer cials	No	I have not seen these stickers	Brief meetings led by a knowledge able and competent speaker. Most of the folks are ignorant about the good nutrition.	Tell the folks the truth about food. Promote the Meditera nean diet (Fish, vegetabl es, fruit)	Male
Yes, I have seen these commercials but I ignored	No, I have not seen these	I have not seen these commer	No	I have seen these stickers and I ignored them			Femal e

them	commerc	cials					
Yes, I have seen these commericals and they influenced me	Yes, I have seen these commerc ials and they influence d me	I have not seen these commer cials	No	I have not seen these stickers	Have nutrition information in the campus center cafeteria. Having to go online and wade through a terrible website is ridiculous.	Have nutritiona I informati on in every restauran t for every food item, and give fines if it is not readily available.	Male
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have not seen these commer cials	No	I have not seen these stickers	continue to add notes for healthy options and to expand the healthy options available		Femal e
No, I have not seen these commercials	No, I have not seen these commerc ials	I have seen these commer cials and I ignored them	No	I have not seen these stickers			Femal e
No, I have not seen these commercials	No, I have not seen these commerc ials	I have not seen these commer cials	No	I have not seen these stickers	Provide more options for fresh fruits and vegetables and healthy meals. By healthy snacks I would like to see limited use of preservativ es, no artificial sweeteners or flavors (including MSG), and possibly even	- Stop advertisin g to promote 'diet' and 'sugar free' as healthy. Aspertme and other artificial sweetene rs are in no way healthier than naturally occurring sugars Create greater regulatio ns for	Male

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Yes, I have	Yes, I	I have	No	I have not			Male
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commericals	seen	these		stickers			
and they influenced me	these commerc ials but I ignored them	commer cials and I ignored them		Silchers			
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and I ignored them	No	I have not seen these stickers			Femal e
No, I have not seen these commercials	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and I ignored them	No	I have seen these stickers and they helped me choose a snack	More available, affordable food in the campus center.	Provide incentive s to compani es that make their food products "healthier".	Femal e
Yes, I have seen these commericals and they influenced me	Yes, I have seen these commercials and they influence dime	I have not seen these commer cials	No	I have not seen these stickers	Increase healthy eating options, specially affordable ones.	Increase informati on available about healthy eating - i.e. nutrient content benefits vs. Calorie content. Make availabilit y of nutritiona I informati on for restauran ts and fast food chains mandator y.	Femal e
Yes, I have seen these commercials	Yes, I have seen	I have not seen these	No	I have seen these stickers and they	I like that WPI has a fruit and	I'd love to not have food	Femal e
but I ignored them	these commerc	commer cials		helped me choose a	salad bar at the campus	commerc ials air	

	ials but I ignored them			snack	center, but these are often very expensive and you can't really weight out how much you want to see the cost until you get to the cash register. I do believe that there are more healthier choices than there has been in the past.	after 6p.m. I'm fine and do not crave anything really after dinner, unless I see a commerc ial and then I think that bowl of ice cream or chips look good. I do not they will every pass a law to outlaw commerc ials though. And, if I think about it, I do not think in a free country they should.	
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and I ignored them	No	I have not seen these stickers			Femal e
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials and they influence d me	I have seen these commer cials and I ignored them	No	I have not seen these stickers			Femal e

Yes, I have seen these	Yes, I have	I have	Yes	I have not seen these			
commercials	seen	seen these		stickers			
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uioiii	ials but I	and I					
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Yes, I have	them Yes, I	them I have	Yes	I have seen			
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commercials but I ignored	seen these	these commer		and they helped me			
them	commerc	cials		choose a			
	ials but I	and I		snack			
	ignored them	ignored them					
Yes, I have	Yes, I	I have	Yes	I have not	Have a	Outlaw	Male
seen these commericals	have seen	seen these		seen these stickers	place that sells fruit	sugar soda	
and they	these	commer		Suckers	right on the	vending	
influenced me	commerc	cials			way before	machines	
	ials and they	and they have			you get to Dunkin	at schools.	
	influence	influenc			Donuts in	Provide	
	d me	ed me			the campus	healthy	
					center	snacks to schoolchi	
						Idren for	
						free. At	
						my daughter'	
						S	
						kindergar ten the	
						kids pack	
						a snack	
						in the morning	
						and it is	
						often a	
						sugary snack; if	
						the	
						school were to	
						provide	
						fresh fruit	
						it would help	
						encourag	
						e lifetime	
						healthier eating.	
						Public	
						service	
						announc	

						ements on TV and radio to eat right would help too, as long as it is not overly influence d by package d foods lobbyists.	
Yes, I have seen these commercials but I ignored them	No, I have not seen these commerc ials	I have seen these commer cials and I ignored them	Yes	I have seen these stickers and I ignored them			Femal e
Yes, I have seen these commercials but I ignored them	No, I have not seen these commerc ials	I have seen these commer cials and I ignored them	Yes	I have seen these stickers and I ignored them			Femal e
Yes, I have seen these commericals and they influenced me	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and I ignored them	Yes	I have seen these stickers and they helped me choose a snack	WPI food is very unhealthy. I prepare my own food and rarely eat anything bought oncampus. The only "healthy" option seems to be buying a salad from the salad bar. All the other food is just loaded with fat and sodium. For		Male

example, vegetebles served with entrees at the campus center are drenched in butter. Coyote Jacks is just sad terrible quality and no nutritional value. Quiznos., fat and sodium. I think WPI should post the nutritional coornents of all food they serve (Calories, fat, protein, carbs, etc) next to all food items they serve. Literally right next to and not on some website that no one will check. This may help the members of the WPI community make healhier choices. It really is up to them to change their eating habits.		1	_	1	1		ı	
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			ingredien	
			ts given,	
			they look	
			very	
			cheap) or	
			have	
			local	
			poor	
			quality	
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			"restaura	
			nts"	
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			e. I'm a	
			recent	
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			deeply	
			shocked	
			by this	
			contradic	
			tion; it is	
			outright	
			immoral.	
			These	
			foods	
			should	
			completel	
			y be	
			banished	
			from	
			schools	
			and	
			school	
			fund	
			raisers,	
			especiall	
			y in	
			America	
			which	
			has a	
			very poor	
			relations	
			hip to	
			food, a	
			twisted	
			image of	
			food and	
			has the	
			highest	
			obesity	
			rate in	
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			significan	
			t margin.	
			Actually,	
			the	
			schools	
			should	
			be	
			obligated	
			by law to	
			provide	
			VERY	
			healthy	
			foods for	
			lunch,	
			use lunch	
			time and	
			lunch	
			food	
			every	
			day to	
			teach	
			about	
			healthy	
			eating	
			and	
			provide	
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			parents	
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			lunch	
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			students.	
			Also, TV	
			programs	
			for kids	
			should	
			be	
			obligated	
			by law to	
			advertise	
			healthy	
			foods	
			foods	
			and	
			healthy	
			eating	
			habits	
			and	
			should	
			be	
			NC	

						prohibite d from advertisin g "junk" food.	
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and I ignored them	Yes	I have not seen these stickers			Femal e
Yes, I have seen these commericals and they influenced me	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and I ignored them	Yes	I have not seen these stickers			Femal e
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and I ignored them	Yes	I have not seen these stickers	Offer nutrition counseling. Everybody is different in their likes/dislike s, metabolism , etc.	The U.S. Government could be honest with the public about the dangers in most of our food, especially the ones they claim to be healthy. I do not ever recall in my reading of the Constituti on where it was the Governments job to "promote" healthy eating.	Femal e

Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and I ignored them	Yes	I have seen these stickers and I ignored them	Offer classes to students on healthy eating	Train kids to eat healthier by starting good habits as soon as possible. Nutrition should be a focus point as early as possible.	Male
No, I have not seen these commercials	No, I have not seen these commerc ials	I have not seen these commer cials	Yes	I have not seen these stickers			Male
No, I have not seen these commercials	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and I ignored them	Yes	I have seen these stickers and they helped me choose a snack	I'd like to see more Calorie listings. I was at Au Bon Pain a few days ago, and was about to order a sandwich but changed my mind when I saw the Calorie listing on the menu. I switched to a healthier option.	I think Calorie listings at restauran ts and realistic portion sizes are important . Some people might be moved to eat healthier if the informati on was right in front of them. Also, portion sizes need a makeove r. Restaura nts serve too much food. They should	Femal e

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						instead	
						of	
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						overeatin	
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						serving	
						sizes	
						listed on	
						packages	
						are not	
						realistic.	
						If a	
						package	
						of	
						cookies	
						lists one	
						cookie, 6	
						chips or	
						half of an	
						energy	
						bar as a	
						serving,	
						not many	
						people	
						are going	
						to eat	
						just that	
						serving	
						size.	
						Most	
						people	
						do not	
						even pay	
						attention	
						to	
						serving	
						size and	
						have no	
						idea what	
						they're	
						consumin	
						g.	
No, I have not	Yes, I	I have	Yes	I have not	Continue		Femal
seen these	have	not seen		seen these	offering a		е
commercials	seen	these		stickers	variety of		
	these	commer			healthy		
	commerc	cials			foods in the		
	ials but I				Campus		
	ignored				Center food		
	them				court.		
Yes, I have	Yes, I	I have	Yes	I have not	Continue to	Continue	Femal
seen these	have	seen	. 55	seen these	offer	informati	e
commercials	seen	these		stickers	healthy	on	
Commordials	1 30011	41000	l	CHOROIS	Hountry	J 311	

but I ignored them	these commerc ials and they influence d me	commer cials and I ignored them			choices	campaig ns	
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials and they influence d me	I have seen these commer cials and they have influenc ed me	Yes	I have not seen these stickers	Require/off er more physical activity options to the campus	clean up the school lunch program - good habits start young	Femal e
No, I have not seen these commercials	Yes, I have seen these commerc ials but I ignored them	I have not seen these commer cials	Yes	I have not seen these stickers	the vending machine choices are still pretty poor. Pretzels seem about the most harmless thing and they still have lots of salt (I only recently came to appreciate what a problem salt is in America).  Try to develop a mindset on campus that there are other foods beside PIZZA!!!  The Campus Center salad bar has a collection of dressings for salad but none	give tax credits for weight loss. The part of health care reform that is being ignored is the people themselv es. We are overweig ht, dont exercise enough and eat poorly. In short we are our own worst enemy.	Male

Yes, I have seen these commercials but I ignored them	No, I have not seen these commerc ials	I have not seen these commer cials	Yes	I have not seen these stickers	are labeled as to Low- fat or Fat Free so they are useless. Dunkin Donuts is a joke		Femal e
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and I ignored them	Yes	I have not seen these stickers	Make the fat content clearer. Make it clear which products are "real" meat and which are processed with added salt. Provide more options with low salt and low-fat. Ditto for sugar.	Not a lot cynical, but true I suspect. They've already got a lot on their plate (so to speak) anyway.	Male
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials and they influence d me	I have seen these commer cials and I ignored them	Yes	I have seen these stickers and they helped me choose a snack	have more options on campus for healthy eating. More natural food options (whole grains, organic produce, etc).	promotio n of whole grains (just b/c the pyramid now states grains, whole grains are critical to a healthy diet (aka not white flour nor enriched	Femal e

						flour).	
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have not seen these commer cials	Yes	I have not seen these stickers	Provide more information about the "unhealthy" choices that we make - if I knew more about how bad something might be for me, I might be more inclined to chose the healthy alternative.		Femal e
No, I have not seen these commercials	Yes, I have seen these commerc ials but I ignored them	seen these commer cials and I ignored them	Yes	I have not seen these stickers			e e
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials and they influence d me	I have not seen these commer cials	Yes	I have seen these stickers and they helped me choose a snack			Femal e
Yes, I have seen these commercials but I ignored them	No, I have not seen these commerc ials	I have seen these commer cials and I ignored them	Yes	I have not seen these stickers			Femal e
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and I ignored them	Yes	I have not seen these stickers	Provide better choices at the food court in the campus center. I cannot eat wheat, but	Require food manufact urers list ALL ingredien ts on all food labels,	Femal e

	want to eat	including	
	low-fat.	incidental	
	That	"trace"	
	means	additives.	
	more	Require	
	choices	factory	
	and larger	farming	
	portions of	provide	
	REAL (not	food that	
	processed)	has the	
	meats/chee	same	
	ses and	nutritiona	
	fresh	I value as	
	veggies in	home-	
	their	grown	
	cooked	food	
	food	(apparent	
	WITHOUT	ly studies	
	extra wheat	of that	
	or corn or	need to	
	rice. In	be	
	general,	made).	
	salad bars	Remove	
	at	GMO	
	restaurants	products	
	give me the	from food	
	runs, so I	chain	
	avoid the	obviously	
	one on	it's not	
	campus	working	
	(salads at	we keep	
	home are	getting	
	OKI	fatter and	
	assume it	fatter	
	has	(could	
	something	that be	
	to do with	the	
	washing	cause?).	
	the	Outlaw	
	vegetables	chemical	
	and	additives	
	allowing	and	
	them to	chemicall	
	drain well).	у-	
	Many times	modified	
	the	foods	
	'chicken	(trans	
	breast"	fats,	
	choices on	methyl	
	campus are	cellulose,	
	-	colorants	
	a	COIOTATILS	
	processed	,	
	and contain	perservat	
	extra carbs.	ives, etc.)	
	Provide		
	"seltzer" as		

					a choice in soda vending machines.		
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and I ignored them	Yes	I have seen these stickers and I ignored them	Make health foods besides soup and salad available at the campus center. Nutrition facts available for campus center foods (and if they are available tells us where).	They currently do a good job	Femal e
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have not seen these commer cials	Yes	I have not seen these stickers	show nutrition and Calorie infomration on each menu.	replace the content for vending machine with the healtier snacks.	Femal e
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and I ignored them	Yes	I have not seen these stickers	Promote and serve more organic, locally harvested meat, produce, and diary products.	Monitor and limit the practice of giant meat farms, which have a negative effect on both the environm ent and people's health (the meat is loaded with antibiotic s), and is cruel to the animals	Femal e

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						of	
						common	
						fast food	
						and	
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						and the	
						benefits	
						of buying	
						locally	
						grown	
Van III.	)/ !	11		I become and		products.	Mali
Yes, I have	Yes, I	I have	Yes	I have not			Male
seen these	have	seen		seen these			
commericals	seen	these		stickers			
and they	these	commer					
influenced me	commerc	cials					
	ials but I	and they					
			•	•	•		

	ignored them	have influenc ed me					
Yes, I have seen these commericals and they influenced me	Yes, I have seen these commerc ials and they influence d me	I have seen these commer cials and I ignored them	Yes	I have not seen these stickers	Healthy quick snack options	encourag e schools to incorpora te healthy eating habits in the curriculu m - case on pointm y older son had, as part of his preschoo I class, learning about veges (and they ate them for snack each day), 'mix-it-up' where the kids where introduce d to measurin g and "made" salad, etc. This stuck with himhe's 13 and still loves veges, will eat salad with meals, and snacks on fresh fruit as opposed	Female

						to cookies. He was in this preschoo I (in California ) for 3 years and as this was part of his daily routine, it became second nature.	
Yes, I have seen these commercials but I ignored them	No, I have not seen these commerc ials	I have seen these commer cials and I ignored them	Yes	I have not seen these stickers			Male
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and I ignored them	Yes	I have not seen these stickers	I think that as much attention as possible should be paid to making the recipes offered on campus healthy for students, faculty, and staff. Given the levels of obesity that we see in our country, coupled with our sedative culture, every attempt to keep fat content and Calorie levels low can help!	I'm not sure if this is done already, but I think that all children should be educated at a very early age on good nutrition, healthy eating choices, and the importan ce of daily exercise. I think some kids do not know how bad chips, hot dogs and	Femal

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						sodas	
						and	
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						damage	
						to their	
						health	
						may	
						already	
						be done.	
No, I have not	No, I	I have	Yes	I have seen	Reduce	School	Femal
seen these			162				1
	have not	seen		these stickers	availability	lunches	е
commercials	seen	these		and they	of soda and	should	
	these	commer		helped me	energy	be made	
	commerc	cials		choose a	drinks.	to be	
	ials	and I		snack		more	
		ignored				healthful.	
		them				Agricultur	
						al policy	
						should	
						provide	
						more	
						supports	
						to	
						farmers	
						growing	
						non-	
						cereal	
						crops	
						(fruits,	
						vegetabl	
						es, nuts)	
						and	
						significan	
						tly less	
						support	
						to corn	
						and soy	
						growers.	
						Provide	
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						farmers	
						markets	
						to be in	
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						e or unavailab	
						le.	
Yes, I have	Yes, I	I have	I have	I have not	I rarely eat	I think	Male
seen these	have	not seen	never	seen these	on campus,	advertisin	iviale
commercials	seen	these	heard of	stickers	I bring my	g where	
but I ignored	these	commer	MyPyramid	Suckers	food in with	to find	
them	commerc	cials			me to be	informati	
uiciii	ials but I	Ciais	.gov		sure that it	on that	
	ignored				is healthy (I	has been	
	them				prepare all	properly	
					my meals	research	
					and try to	ed is the	
					live a	main	
					healthy	concept.	
					life). If they	The	
					do not	MyPyram	
					already do	id.gov	
					this, it	site may	
					would be	be very	
					helpful to	useful,	
					list the	but I	
					nutritional	have	
					content of	never	
					items sold	heard of	
					at the	it until	
					campus	this	
					center	survey.	
					directly	Also,	
					next to the	maybe informati	
					menu, so if I am	on on	
					thinking	different	
					about a	types of	
					slice of	diets,	
					pizza I can	based on	
					see exactly	goals,	
					how many	activities,	
					more	or	
					Calories	genetics	
					and fat	may be	
					might be in	helpful.	
					a slice of	Also, I	
					pepperoni	centralize	
					rather than	d	
					cheese.	database	
						of	
						nutritiona	
						I content	
						for foods	
						sold at	
						restauran	
						ts and	
						grocery	
						stores. I	

					know the informati on is available from each source, but a "onestop" database containin g the informati on would be helpful.	
Yes, I have seen these commericals and they influenced me	Yes, I have seen these commerc ials and they influence d me	I have seen these commer cials and I ignored them	I have never heard of MyPyramid .gov	I have not seen these stickers		Femal e
No, I have not seen these commercials	Yes, I have seen these commerc ials and they influence d me	I have not seen these commer cials	No	I have seen these stickers and I ignored them		Male
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and I ignored them	I have never heard of MyPyramid .gov	I have not seen these stickers		Male
Yes, I have seen these commercials but I ignored them	No, I have not seen these commerc ials	I have not seen these commer cials	No	I have not seen these stickers		Male
No, I have not seen these commercials	No, I have not seen these commerc ials	I have not seen these commer cials	No	I have not seen these stickers		Male

Yes, I have seen these commericals and they influenced me  No, I have not seen these commercials	Yes, I have seen these commerc ials and they influence d me No, I have not seen these commerc ials	I have not seen these commer cials  I have seen these commer cials and I ignored them	I have never heard of MyPyramid .gov	I have not seen these stickers  I have not seen these stickers	I believe there is plenty of healthy food options at the campus center.	Lots and lots of PR	Male
Yes, I have seen these commericals and they influenced me	Yes, I have seen these commercials but I ignored them	I have seen these commer cials and they have influenc ed me	No	I have seen these stickers and I ignored them	Less "organics", which are no healthier, but take up much more land to grow the same amount of food. That drives up the cost of healthy fruits and vegetables, which will make it less likely that people in general will eat them.	The Governm ent should provide informati on, but should *not* start yet another multibillion dollar Governm ent agency. At best, they should out source to a commerc ial advertisin g company that can do it better, faster and cheaper.	Male
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc	I have seen these commer cials	I have never heard of MyPyramid .gov	I have seen these stickers and I ignored them		инсарст.	Femal e

	ials but I ignored them	and I ignored them					
Yes, I have seen these commercials but I ignored them	No, I have not seen these commerc ials	I have seen these commer cials and I ignored them	No	I have not seen these stickers	Convince me that you really know something about healthy eating and have not just bought into the trend of the moment on what constitutes healthy eating.	Take a more balanced and evidence based view of healthy eating.	Male
No, I have not seen these commercials	No, I have not seen these commerc ials	I have not seen these commer cials	No	I have not seen these stickers	I actually do not eat on campus - I make my own food, I bring a bagged lunch to school, and I bring my own snacks. I also do not ever watch TV, so I do not see commercial s.	Not allow high fructose corn syrup to be in EVERYT HING. (I'd like some variety in my sweetene rs - too much of anything isn't healthy or good for the economy).	Male
Yes, I have seen these commericals and they influenced me	Yes, I have seen these commerc ials and they influence d me	I have not seen these commer cials	I have never heard of MyPyramid .gov	I have not seen these stickers			Male
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials and	I have not seen these commer cials	I have never heard of MyPyramid .gov	I have seen these stickers and they helped me choose a snack			Male

	they influence d me						
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and I ignored them	Yes	I have not seen these stickers		ban antibiotic s and hormone supplem ents in livestock raised for meat	Male
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials and they influence d me	I have seen these commer cials and I ignored them	No	I have not seen these stickers	more salad option. I like that they have a meal with Weight Watcher points listed. They should do this on more items.	I worked in a school cafeteria and the food that was free from the Governm ent was usually cheese and hamburg. Change this to healthier options.	Femal e
No, I have not seen these commercials	No, I have not seen these commerc ials	I have not seen these commer cials	I have never heard of MyPyramid .gov	I have not seen these stickers	More options at the campus center with less grease.	Revise the food pyramid.	Male
No, I have not seen these commercials	No, I have not seen these commerc ials	I have seen these commer cials and I ignored them	No	I have not seen these stickers		e food producer s to put less sugar and salt in processe d foods!	Femal e
Yes, I have seen these commericals and they influenced me	Yes, I have seen these commerc ials but I ignored them	I have not seen these commer cials	No	I have not seen these stickers	Nothing, everything sold here is healthy. Do not open a MDonalds in campus	Healthy food should be cheaper and more accessibl e. At this point is more	Femal e

						convinien t to buy what's unhealth y.	
Yes, I have seen these commericals and they influenced me	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and they have influenc ed me	No	I have seen these stickers and they helped me choose a snack	The green stickers aren't that useful. In some machines they only indicate gum. A small label would be better. Also, nutrition labels on the prepared food in the campus center would be lovely.	Calorie listings on menus would inform the public about what they are eating. I think many people would be surprised by how unhealth y some foods are in restauran ts.	Femal e
No, I have not seen these commercials	Yes, I have seen these commerc ials but I ignored them	I have not seen these commer cials	No	I have not seen these stickers	More healthy options in the Campus Center.	Feed children healthier food in school cafeteria s and have health classes very early with informati on on healthy foods and the effects of obesity, et c.	Femal e
No, I have not seen these commercials	No, I have not seen these commerc ials	I have not seen these commer cials	No	I have not seen these stickers		Make fresh, LOCAL produce (fruits and veggies) available	Femal e

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				everywhe
				re, in
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				le prices.
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				e more
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				y growth
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				Samilou.
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				cheaply
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				supermar
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				just in
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				And do
				not forget
				the nuts
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			y in the	
			shell	
			(walnuts,	
			almonds,	
			etc.)	
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			unused	
			drugs	
			should	
			be	
			collected	
			and	
			disposed	
			of .	
			properly	
			by the	
			local or	
			state	
			Governm	
			ents.	
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Yes, I have seen these commericals and they influenced me	Yes, I have seen these commerc ials but I	I have not seen these commer cials	Yes	I have not seen these stickers		Every day, young people are dying from improperl y disposed of prescripti on medications and other stuff in our drinking water. The federal Government must see to it that our water is safe to drink, and that our food is safe to eat.	Femal e
	ignored them						
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials and they influence d me	I have seen these commer cials and I ignored them	Yes	I have seen these stickers and I ignored them	Provide more nutrition info on the foods on campus.		Male

No, I have not seen these commercials	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and they have influenc ed me	I have never heard of MyPyramid .gov	I have not seen these stickers	Reduce costs of fresh vegetables and fruits in the Campus Center food court.		Male
No, I have not seen these commercials	No, I have not seen these commerc ials	I have not seen these commer cials	Yes	I have seen these stickers and they helped me choose a snack	At events, provide free fruit, sliced apples etc. I find that Chartwells fruit however is often not ripe. I wasted a peach and felt bad about this, but it was ROCK hard I could have broken a tooth on it so tossed it out. Maybe in the new library cafe they can offer some small fresh fruit cup, yogurt and granola like at Starbucks. perhaps in the vending machines there can be MORE healthy choices? Sometimes there are so few. Not varied enough. It's hard for me: Doritos	I think it's a lifestyle question for people, I am not sure the gov't can do much about it. Regulatio n or taxation of soft drinks or snack food is not an answer and in my opinion, a tax on the poor. I do like the movement towards of transfat free snacks and food, bans on TFAs. I do like the labeling of organics so some regulation is useful. People overall	Male

or granola know	
bar. Doritos   what they	
are SO should or	
good. shouldn't	
Maybe eat,	
some more   awarene	
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"baked" the issue.	
products It's	
(Baked lifestyle	
Cheetos choices,	
are delish). personal	
They are tastes.	
NOT really Health-	
a healthy driven	
choice snackers	
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think about already	
it. Honestly.   changing	
How about the	
getting RID market	
of the evil and	
vending demandi	
machines ng more	
altogether! of these	
? They items. Is	
promote WPI	
junk food keeping	
consumptio up and	
n just by providing	
being what	
there. students	
Maybe and staff	
more light what?	
snacks	
options at	
the campus	
center,	
fresh air-	
popped	
popcorn,	
SmartFood	
has so	
much fat!	
We need a	
Jamba	
Juice type	
place.	
Fresh	
smoothies.	
At the	
Campus	
Center they	
have all	
these	

No, I have not seen these commercials	Yes, I have seen these commerc ials and they influence d me	I have not seen these commer cials	Yes	I have not seen these stickers	candies now by the registers. This is bad news. better, fresher options at the campus center.		Femal e
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commercials but I ignored them	I have seen these commer cials and I ignored them	No	I have not seen these stickers		My impressio n is that the interior aisles of a typical supermar ket contain a lot of lower price food options but many of these contain ingredien ts such as sodium, high fructose corn syrup, etc. that do not contribut e to healthy eating. The vegetabl es and fruits, however, tend to carry a higher price tag and are	Male

						susceptib le to early spoilage at home, which results in a higher effective price. Perhaps the subsidies for the corn growers can be redirecte d?	
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and I ignored them	Yes	I have not seen these stickers			Femal e
No, I have not seen these commercials	No, I have not seen these commerc ials	I have not seen these commer cials	No	I have not seen these stickers			Male
Yes, I have seen these commericals and they influenced me	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and I ignored them	I have never heard of MyPyramid .gov	I have not seen these stickers	Promote drinking juice, water, and seltzer over soda and other highly sugared drinks.  People will buy what is appealing and convenient, like pizza. Make healthy foods more appealing and convenient in the food	Tax candy and sugary drinks to raise their cost.  Remove agricultur al price supports on sugar to reduce productio n.	Male

	1		1	Ī	oom:ioo		<del></del> 1
					service areas.		
					areas.		
					Much of the		
					display		
					space in		
					the		
					Campus		
					Center food		
					court is		
					devoted to		
					sugary		
					drinks.		
					Reduce it.		
					Lower the		
					price of		
					botled		
					water		
					and/or		
					make tap water		
					available at		
					all dining		
					areas.		
Yes, I have	No, I	I have	I have	I have not	Promote	Eliminate	Male
seen these	have not	not seen	never	seen these	eating	corn	
commercials	seen	these	heard of	stickers	whole	syrup for	
but I ignored	these	commer	MyPyramid		grains.	starters.	
them	commerc	cials	.gov		Explain the	Tax junk	
	ials				concept	food like	
					that whole	butts and booze.	
					grains convert to	Tag junk	
					sugar more	food with	
					slowly,	a specific	
					reduce	radiation	
					cravings,	marker	
					and	that	
					maintain a	accumula	
					steady	tes in	
					blood sugar	your	
					level over	body. If	
					an	you have	
					extended	an	
					period of time.	excessiv	
					unie.	e level, when the	
					Have	time	
					oatmeal	comes,	
					available all	you won't	
					morning in	be	
					the	covered	
					cafeteria.	by	
						Medicare	
	1					/Medicaid	

Yes, I have seen these commercials but I ignored them	Yes, I have seen these commercials but I ignored them	I have seen these commer cials and I ignored them	I have never heard of MyPyramid .gov	I have not seen these stickers	1. The food service can stop trying to force a politically correct diet down our throats.  2. TRAYS can be returned to the student dining halls. They were removed to make it difficult for students to carry their meals and thus maximize Chartwell profits. It had nothing to do with the propagand a about eating healthy.  3. For goodness sake, do not be dupes and think that it's about health. It's about profits.	Oy, vaysmer e!	Male
No, I have not seen these commercials	No, I have not seen these commerc ials	I have not seen these commer cials	No	I have seen these stickers and I ignored them		even with current health regulatio ns, the school lunches and breakfast s served at the school I	Male

No, I have not seen these commercials	No, I have not seen these commerc ials	I have seen these commer cials and I	Yes	I have not seen these stickers		teach at consist of high sugar, high fat food. Considering this is a Government funded food source-and largely free to my students since we are a high need school, that might be a start.	Femal e
Yes, I have seen these commericals and they influenced me	Yes, I have seen these commerc ials and they influence d me	I have not seen these commer cials	No	I have not seen these stickers	emails, websites, signs	more commerc ials, prgrams at schools, better food that still tastes good in vending machines	Femal e
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have not seen these commer cials	I have never heard of MyPyramid .gov	I have not seen these stickers			Male

No, I have not seen these commercials	No, I have not seen these commerc ials	I have not seen these commer cials	I have never heard of MyPyramid .gov	I have not seen these stickers			Male
No, I have not seen these commercials	No, I have not seen these commerc ials	I have seen these commer cials and I ignored them	Yes	I have seen these stickers and they helped me choose a snack			Male
Yes, I have seen these commercials but I ignored them	No, I have not seen these commerc ials	I have seen these commer cials and I ignored them	No	I have not seen these stickers	offer more low-fat low sodium options	start educatin g children as early as preschoo	Femal e
Yes, I have seen these commericals and they influenced me	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and I ignored them	No	I have seen these stickers and they helped me choose a snack			Male
No, I have not seen these commercials	No, I have not seen these commerc ials	I have seen these commer cials and I ignored them	No	I have not seen these stickers	I just go to the campus center, but I think there are quite a few healthy choices there, so I think it does pretty well.	Promote more nutritious choices in schools and less junk food sold there; more disclosur e of nutrition informati on in restauran ts; public service announc ements about healthy eating	Femal e
Yes, I have seen these	Yes, I have	I have seen	Yes	I have not seen these	Offer better options at	Figure out how	Femal e

commericals and they influenced me	seen these commerc ials but I ignored them	these commer cials and I ignored them		stickers	on campus dining facilties.	to make healthy options cheaper.	
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commercials but I ignored them	I have seen these commer cials and I ignored them	I have never heard of MyPyramid .gov	I have not seen these stickers	stop the Crispy Creme donut offers  offer incentives to students, faculty and staff for getting out and walking!  promote fruit, instead of cookies - healthier, lighter desserts	replace every fast food "restaura nt" chain with a fast food salad bar place? :)	Femal e
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and I ignored them	No	I have not seen these stickers	Perhaps post a Healthy Eating on Campus Map and a daily email highlighting healthy options for the day.	Help bring down the cost of "healthy eating"	Femal e
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and I ignored them	I have never heard of MyPyramid .gov	I have not seen these stickers	Stay out of it.	Stay out of it and definitely do not use the president 's wife.	Femal e
No, I have not seen these commercials	No, I have not seen these commerc ials	I have not seen these commer cials	Yes	I have not seen these stickers	Offer healthy eating options and snacks. Chartwells is doing this already with the	Healthy eating habits start at home, but children can learn about	Femal e

					menu options at the Campus Center. I receive an email every day to advertise eating options there and it is informative.	them in the schools and bring the informati on home.	
No, I have not seen these commercials	No, I have not seen these commerc ials	I have not seen these commer cials	I have never heard of MyPyramid .gov	I have not seen these stickers		Play up the delicousn ess of good things to eat in ways other than with animated vegetabl es. Show famous chefs making healthy foods that look good that people can make at home with ingredien ts that are cheap and easy to get from the store.	Male
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have not seen these commer cials	No	I have seen these stickers and I ignored them	More convenient, filling, tasty healthy options would be good. I find myself	Benefits for healthy people (health insuranc e rebates,	Male

					eating quiznos, burgers, or pizza from the campus center every day.	tax breaks,)  Make healthy, low cost options available so people dont eat at McDonal ds/burger king so often.  Limit unhealth y food at schools. no unhealth y food at school cafeteria s should be subsidize d.  Tax or otherwise make unhealth y food less desirable	
Yes, I have seen these commericals and they influenced me	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and they have influenc ed me	No	I have not seen these stickers			Femal e
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored	I have seen these commer cials and I ignored	I have never heard of MyPyramid .gov	I have not seen these stickers	The salad bar in the Student Center food court could offer more salad		Femal e

	l a	l (1		1	20 20.		
	them	them			items-it's		
					bland		
					looking		
					compared		
					to the fast		
					food areas.		
					Maybe a		
					part of the		
					food court		
					could be a		
					station that		
					offered full		
					meals		
					already		
					made up		
					that was		
					under a		
					certain		
					amount of		
					carbs,		
					sugar,		
					Calorie, fat,		
					etc. Maybe		
					even		
					offered		
					tasty health		
					foods.		
					In New		
					York City		
					fast food		
					companies		
					must list		
					caloric		
					value of		
					each item		
					right up on		
					the sign		
					you order		
					from. I		
					realize how		
					much is		
					really in the		
					food-and		
					order way		
					less. The		
					various		
					food places		
					on campus		
					could do		
					the same.		
No, I have not	No, I	I have	I have	I have seen			Male
seen these	have not	not seen	never	these stickers			
commercials	seen	these	heard of	and I ignored			
1						ii	
	these	commer cials	MyPyramid .gov	them			

	ials						
No, I have not seen these commercials	No, I have not seen these commerc ials	I have not seen these commer cials	I have never heard of MyPyramid .gov	I have seen these stickers and I ignored them			Male
Yes, I have seen these commercials but I ignored them	No, I have not seen these commerc ials	I have not seen these commer cials	No	I have seen these stickers and I ignored them	Do not have junk food available. Serve healthy meals at the cafeteria.	Oversee the food served at schools.	Femal e
Yes, I have seen these commericals and they influenced me	Yes, I have seen these commerc ials and they influence d me	I have seen these commer cials and they have influenc ed me	No	I have not seen these stickers	Free healthy snacks like baby carrots and apple slices. Show films that highlight the dangers of junk food	Ban high fructose corn syrup or place large warning labels on soft drinks like they do on cigarette packages	Male
Yes, I have seen these commercials but I ignored them	No, I have not seen these commerc ials	I have seen these commer cials and I ignored them	Yes	I have not seen these stickers	I'm at Gateway - It would be nice to have non- brown-bag eating at all.	Get out of cahoots with hyper-caloric, vitamin-low Big Agra productio n? Not supportin g feedlot meat productio n would be a good start.	Femal e
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I	I have seen these commer cials and they	Yes	I have not seen these stickers	More nutrious snacks in vending machines. More	Focus more on nutrious food, not just snacking.	Femal e

	1	1	1	1	T		1
	ignored	have			flavored	Afternoo	
	them	influenc			water than	n/Evenin	
		ed me			soda.	g is when	
					Have egg	people	
					white	tend to	
					sandwiches	eat high	
						Calorie	
					with plain		
					grilled	foods	
					chicken	due to	
					available.	the fact	
					More	they	
					steamed	haven't	
					veggies	eaten	
					(w/o butter)	enough	
					A healthy	earlier in	
					meal of the	the day.	
						-	
					day (300	Encourag	
					Calories for	e people	
					Women;	to have	
					500 for	more	
					Men) given	nutrious	
					at the	food with	
					Campus	good fat	
					Center.	that will	
					More	last	
					creative	longer	
					salad bar -	and	
						eliminate	
					sprouts,		
					carrot/celer	the high	
					y sticks,	sugar,	
					unsalted	high fat	
					nuts, no fat	and	
					cottage	Calorie	
					cheese,	foods.	
					etc. Half	People	
					sandwiches	do not	
					to promote	think to	
					for		
					_	have a	
					afternoon	half	
					snack as	sandwich	
					oppose to	late	
					"junk	afternoon	
					snacks". 3	, but will	
					oz turkey	won't	
					sandwich	think	
					on Esekiel	twice	
					bread also	about a	
					can have	candy	
					available at	bar or a	
					Salad bar -	bag of	
					1/2	pretzels.	
					sandwich,		
					1/2 soup.		
No, I have not	No, I	I have	I have	I have seen	Positive	Unsure	Femal
seen these	have not	seen	never	these stickers	advertisem	it's hard	е
commercials	seen	these	heard of	and they	ents, fast	to get	
3010.0101010	55511			1 3 110 9	J.1.0, 1401	901	

	these commerc ials	commer cials and they have influenc ed me	MyPyramid .gov	helped me choose a snack	options for healthy food.	children in the habit early since they often have less control over what they eat.	
Yes, I have seen these commericals and they influenced me	Yes, I have seen these commerc ials and they influence d me	I have seen these commer cials and I ignored them	No	I have seen these stickers and they helped me choose a snack			Femal e
Yes, I have seen these commercials but I ignored them	No, I have not seen these commerc ials	I have seen these commer cials and I ignored them	No	I have seen these stickers and I ignored them	Increase the price of less healthy options.	Place a 25% tax on fast food and other non- nutritious foods. Provide a tax refund for non- overweig ht folks, reduced health- care premium s for non- overweig ht folks.	Male
Yes, I have seen these commercials but I ignored them	Yes, I have seen these commerc ials but I ignored them	I have seen these commer cials and I ignored them	I have never heard of MyPyramid .gov	I have not seen these stickers			Femal e