

Hunger and Very Low Food Security

Testimony before the National Commission on Hunger

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Executive Summary

According to the U.S. Department of Agriculture, in households with very low food security (VLFS), the “eating patterns of one or more household members were disrupted and their food intake reduced, at least some time during the year, because they couldn’t afford enough food.” At times, these households worried that food would run out, ate unbalanced meals, and relied on cheaper foods. In addition, adults usually cut back on the size of their meals or skipped meals to save money. In a majority of these households, adults reported feeling hungry at times, but not eating due to a lack of food. Very low food security is almost always an intermittent and episodic problem for families rather than a chronic condition

In the United States in a typical month in 2013:

- One adult in 30 experienced very low food security.
- One adult in 35 was hungry for at least one day because there was not enough money for food in the household.
- One adult in 100 did not eat for a whole day because of lack of money for food.

Children rarely experience hunger or very low food security as individuals. Faced by food constraints, parents will normally cut back their own food intake or go without eating in order to ensure their children continue to have a stable food supply. In the typical month in 2013:

- One child in 165 experienced very low food security.
- One child in 125 went hungry for at least one day because of lack of money for food.
- One child in 250 skipped at least one meal due to lack of food resources.
- One child in 1,000 did not eat for an entire day because there was not enough money for food.

Overall, very low food security occurs predominantly among non-elderly adults. In 2013, only four percent of individuals with VLFS were children; seven percent were elderly. Nearly nine out of ten (89%) of persons experiencing VLFS were non-elderly adults.

Food insecurity has only a modest impact on diet quality. The average diets of VLFS adults and fully food secure adults are the same in: caloric intake, energy density, saturated fat, sodium and macro-nutrients. Measured by the government’s Healthy Eating Index, adults with very low food security score 1.8 points below that of fully food secure adults on a scale of 0 to 100.

Contrary to conventional wisdom, healthy foods are not more expensive than unhealthy foods. In particular, junk foods are not a cheap source of food energy. A recent study from the USDA states:

“When measured on the basis of edible weight or average portion size, grains, vegetables, fruit, and dairy foods are less expensive than most protein foods and [unhealthy] foods high in saturated fat, added sugars, and/or sodium.”¹

In many cases an increase in consumption of grains, beans, fruits and vegetables and a decrease in consumption of fast and convenience foods high in saturated fat, sugar, and salt would actually lower diet costs while improving quality.

Food banks, which provide free food to low-income persons, can play a strong role in reducing hunger. Surprisingly, only a third of VLFS households report using food banks to obtain extra food. Nearly two-thirds report that they do not have access to a food bank. This is puzzling. Nationwide, there are over 30,000 food banks and food pantries. That’s one food bank for every general zip code in the country, or ten for each county.

Most poor families should have access to food banks in their area. Three-quarters of poor household own cars; others are likely to have relatives and friends with cars, raising the possibility of pooled trips to obtain free food. Finally, urban food banks are likely to be located near public transit routes. It is possible that many of these households have food banks nearby but are unaware of them. If this is so, then VLFS problems could be reduced by having Supplement Nutrition Assistance Program (SNAP) offices provide clearer information on the location and availability of food banks in the area.

Treating food security as a stand-alone nutrition issue, independent of the behaviors that cause it, will lead to unwise public policy. Unfortunately, most discussions of hunger simply ignore the behaviors that strongly contribute to the problem.

Costly and inefficient food expenditures are a major factor. Households with very low food security spend a quarter of their food dollars in fast food restaurants and vending machines. Contrary to conventional wisdom, fast food is a very expensive food source. Adults with VLFS also drink nearly two cans of soda per day. Given this unhealthy and wasteful spending it should be no great surprise if these individuals run short on money for food toward the end of the month.

Smoking is another major factor contributing to hunger or very low food security in the U.S. Over 40% of adults with very low food security regularly smoke cigarettes. Consuming on average 19 packs of cigarettes per month, these individuals spend an estimated \$112 each month on tobacco. For these individuals, spending on cigarettes equals nearly two-thirds of the expected food costs for low-income persons. Since money spent on cigarettes cannot be spent on food, regular smoking in many cases leads directly to very low food security and hunger.

¹ Andrea Carlson, and Elizabeth Frazão. *Are Healthy Foods Really More Expensive? It Depends on How You Measure the Price*, EIB-96, U.S. Department of Agriculture, Economic Research Service, May 2012.

Illegal drug use is also a factor. Adults with VLFS are twice as likely as the general public to purchase illegal drugs. More than a fifth of VLFS adults used marijuana in the last 30 days. Obviously, money spent on illegal drugs cannot be spent on food. Nearly a fifth of VLFS adults report having been in drug rehabilitation, and a quarter admit to severe binge drinking in the past. These individuals exhibit symptoms of impaired self-control that can exacerbate food security problems.

Although the problems of smoking and illegal drug use cannot be easily addressed, other aspects of the hunger issue appear fixable. The best mechanism to reduce intermittent hunger among VLFS households would be to modestly alter the food purchasing and consumption habits among potential VLFS households.

These households should be encouraged to purchase food more healthfully and efficiently and to allocate food consumption more evenly throughout a month. They should reduce expenditures on fast food, junk food and convenience foods and increase expenditures on non-fattening traditional staple foods that are low in salt and saturated fat but provide high levels of food energy per dollar of expenditure. Low-income households should also be encouraged to stockpile inexpensive, healthy, non-perishable foods to protect against intermittent food shortages and hunger. These emergency stockpiles would be called on if normal foods begin to run short at the end of a month. These strategies have a strong potential to reduce very low food security.

Full Testimony

I wish to thank the National Commission on Hunger for the opportunity to discuss this issue. The views I express are my own and do not necessarily reflect those of The Heritage Foundation.

What is Very Low Food Security?

According to the USDA, in households with very low food security, the “eating patterns of one or more household members were disrupted and their food intake reduced, at least some time during the year, because they couldn’t afford enough food.”² At times, these households worried that food would run out, ate unbalanced meals, and relied on cheaper foods. In addition, adults usually cut back on the size of their meals or skipped meals to save money. In a majority of these households, adults reported feeling hungry at times but not eating due to a lack of food.³

Very low food security is almost always an intermittent and episodic problem for families rather than a chronic condition. The average family with very low food security experienced disrupted food intakes in seven months of the year, for one to seven days per month.⁴

In the United States in a typical month in 2013:

- One adult in 30 experienced very low food security.
- One adult in 35 was hungry for at least one day because there was not enough money for food in the household.
- One adult in 100 did not eat for a whole day because of lack of money for food.

Very Low Food Security in Households with Children

If children reside in a VLSF home, they are almost always shielded from food shortages affecting the rest of the family. Of the nearly five million children residing in low-income VLFS homes in 2013, only 570,000 or 12% experienced VLFS as individuals. A disparity in frequency of VLFS between parents and children occurs because, when facing food⁵ constraints, parents will normally cut back their own food intake or go without eating in order to ensure their children continue to have a stable food supply. In the typical month:

- One child in 165 experienced very low food security.
- One child in 125 went hungry for at least one day because of lack of money for food.

²Mark Nord, Alisha Coleman-Jensen, Margaret Andrews, and Steven Carlson, “Household Food Security in the United States, 2009,” U.S. Department of Agriculture, Economic Research Report No. 108, November 2010, p. 5 at <http://www.ers.usda.gov/Publications/ERR108/ERR108.pdf>

³*Ibid.*

⁴*Ibid.*, p. 9.

⁵ Alisha Coleman-Jensen, Christian Gregory, and Arita Singh, *Household Food Security in the United States in 2013, Statistical Supplement*, United States Department of Agriculture, Economic Research Service, September 2014, p.3.

- One child in 250 skipped at least one meal due to lack of food resources.
- One child in 1,000 did not eat for an entire day because there was not enough money for food.⁶

Overall Demography of Very Low Food Security

Very low food security occurs predominantly among non-elderly adults. It is comparatively infrequent among children and the elderly. Table 1 shows annual VLFS status for individuals in 2013. Only 4% of individuals with VLFS were children; 7% were elderly. Nearly nine out of ten (89%) persons experiencing VLFS were non-elderly adults. These non-elderly adults with VLFS split almost equally into two groups: parents with children and non-parents.⁷

Table 1

Demography of Very Low Food Security

	Persons with Very Low Food Security	Percent of Persons with Very Low Food Security
	(in thousands)	
Non-elderly adults without children	6,434,816	45.6%
Non-elderly adults with children	6,073,958	43.1%
Elderly adults	1,026,865	7.3%
Children	569,446	4.0%
Total persons	14,105,085	100.0%

Note: Very low food security status is measured over a full year

Source: Calculated from the U.S. Census Current Population Survey, Food Security Supplement, December 2013

Going without Food

Very low food security is a recurring, not a chronic, condition. The problems of food constraints and supply disruption typically occur in the same households repeatedly. The average VLFS household will experience food constraints and shortages in six months out of the year.

⁶ Calculations from the U.S. Bureau of the Census, Current Population Survey, Food Security Supplement from December 2013.

⁷ Ibid.

A household that experiences very low food security during a month will typically run short of food toward the end to the month. About 70% of adults in these VLFS households will report feeling hungry during that month. When adult hunger does occur, on average, it will occur for seven days during the month. At the extreme, around one-quarter of adults in VLFS households will report not eating for a whole day because “there was not enough money for food.”⁸ For Americans to go without food for an entire day represents a social problem. However, it is a problem that is limited in scope, and it requires a well-informed policy response.

For one thing, the pattern of adults going without eating is difficult to understand. It is far less expensive to simply stave off hunger and fill an empty stomach than to provide a long-term fully balanced diet. In fact, filling a stomach is quite cheap; 1,000 calories of rice, purchased in bulk, cost only 30 cents. In a pinch, an adult can fill his stomach and meet all his daily calorie needs with healthful but inexpensive foods for a dollar a day. (Clearly, this sum would not provide a balanced long-term diet, but it would block any short-term discomfort from hunger.)

The median VLFS household spends \$5 per day, per person on food. The fact that roughly a third of VLFS adults may run out of food entirely for four days per month seems to be driven at least as much by the types of food purchased and the allocation of food during the month as it is by total food spending. Behavioral issues concerning tobacco, drug, and alcohol use also play a considerable role.

Differences in Diet Quality

Closely related to household food security among the poor is the issue of diet quality. One important measure of diet quality is the USDA Healthy Eating Index.⁹ The 2005 version of the index (HEI-2005) measures the intake of nine healthy food groups and three unhealthy (or moderation) food groups. The healthy groups are total fruit (including juice), whole fruit (excluding juice), total vegetables, dark green and orange vegetables and legumes, total grains, whole grains, milk and milk products, meat and beans, and oils. The unhealthy (or moderation) categories include saturated fat (above 7% of total calories), sodium (above 0.7 grams per 1000 calories), and SoFAAS (solid fats, alcoholic beverages, and added sugars) above 20% of total calories.

The HEI-2005 ranks diets on a scale of 0 to 100. An individual would score 100 if he consumed the recommended amount or more of all nine healthy food groups and did not exceed the limits for saturated fat, sodium and SOFAAS consumption. An individual would receive a score of zero

⁸ Ibid.

⁹ U.S. Department of Agriculture, Center for Nutrition Policy and Promotion, *Healthy Eating Index 2005, CNPP Fact Sheet No. 1*, December 2006, Slightly Revised June 2008.

http://www.cnpp.usda.gov/sites/default/files/healthy_eating_index/healthyeatingindex2005factsheet.pdf

if he did not consume any food from the nine healthy groups and greatly exceeded the limits on the unhealthy groups.

The entire U.S. population can be ranked by HEI-2005. This results in a bell curve distribution. In 2001, the median individual (50th percentile of the population) had a score of 49.3. The 20th percentile scored 37.9, while the 80th percentile scored 62.6. Throughout most of the distribution, an increase of one point in HEI-2005 score would increase an individual's percentile rank by about 2 percentage points relative to the rest of the population.¹⁰

Eating one extra apple, one banana, or one cup of green vegetables per day would raise an individual's HEI score by five points. Conversely, drinking one additional 12 oz. can of regular soda per day, above the SoFAAS limit, would generally lower the score by four points.¹¹

Overall, one point on the HEI-2005 scale is roughly equivalent to an increased daily consumption of one-fifth of an apple or banana or one-fifth of a cup of green or orange vegetables relative to total consumption.¹² Conversely, consuming one-quarter of a 12 oz. can of soda (above the SoFAAS calorie limit) would cause a one point drop in the daily HEI-2005 score.¹³

Diet Quality and Household Income

There is a widespread perception that lower income households have far less healthy diets than the middle-class households. A corollary belief is that diet quality improves sharply as household income rises. According to this view, income constraints force poor and low-income households to purchase cheap, unhealthy foods; as income rises, the poor are able and expected to substitute healthy for unhealthy foods.

In reality, this perception is inaccurate. Average diet quality is quite uniform over a very wide income range.¹⁴ Table 2, using data from the National Health and Nutrition Evaluation Survey (NHANES) for 2003-2004, shows the average HEI-2005 scores for various demographic groups

¹⁰ Patricia M. Guenther, Jill Reedy, Susan M. Krebs-Smith, Bryce B. Reeve, Peter Basiotis, "Development and Evaluation of the Healthy Eating Index-2005 Technical Report, U.S. Department of Agriculture, Center for Nutrition Policy and Promotion, U.S. Department of Agriculture, November 200, p. 20.. Available at <http://www.cnpp.usda.gov/HealthyEatingIndex.htm>

¹¹ Calculations are based on an adult male with a standard intake of 2,500 calories per day. One small apple or one banana is the equivalent of one cup of whole fruit. For an adult with a recommended daily intake of 2500 calories one cup of whole fruit is worth 5 points on the HEI-2005 scale. For the same adult one cup equivalent of green or orange vegetables is worth 5 points on the scale. By contrast, each 100 calories of added sugar above the SoFAAS limit reduces by HEI-2005 score by around 2.66 points. Consuming an extra 12 oz. can of soda with 150 calories above the SoFAAS limit would drop the daily HEI score by 4 points.

¹² One small apple or one banana is the equivalent of one cup of whole fruit. For an adult with a recommended daily intake of 2500 calories one cup of whole fruit is worth 5 points on the HEI-2005 scale. Thus, one point on the HEI-2005 scale is the equivalent of around one fifth of an apple; the amount would be less for women and children.

¹³ Both calculations are for an adult male with a daily 2,500 calorie intake.

¹⁴ Hazel A.B. Hiza, Kellie Casavale, Patricia Guenther, Carole Davis, "Diet Quality of Americans Differs by Age, Sex, Race/Ethnicity, Income and Education Level", *Journal of the Academy of Nutrition, and Dietetics*, February, 2013, <http://www.sciencedirect.com/science/article/pii/S2212267212014220>

at different income levels. Income is measured as a percent of the federal poverty level (FPL). (In 2014, the annual federal poverty level for a one-person household was \$12,316; for a two-person household, \$16,317; for a three-person household, \$19,073, and for a four-person household, \$24,008.)

Table 2

Healthy Eating Index Scores (HEI-2005) By Income

Family Income as Percent of Federal Poverty Level	Children aged 2-17 years	Adults aged 18-64 years	Adults 65 years and older
Below 130% FPL	57	55*	64
130%-299% FPL	53**	56	64
300%-499% FPL	56	56	64
Above 499% FPL	59	58*	70

Note: Maximum HEI-2005 score equals 100.

Note: FPL = Federal Poverty Level

* = Statistically significant difference between lowest and highest income groups

** = Statistically significant difference between second lowest group and top and bottom groups

Source: Hiza, et al., *Diet Quality of Americans Differs by Age, Sex, Race/Ethnicity, Income, and Education Level*

The table shows that HEI-2005 scores change very little as income rises. Lower-income children (with family income below 130% FPL) actually have higher HEI-2005 scores than middle-income children (with family incomes between 130% and 499% of FPL.) Lower-income children actually consume more vegetables and fewer SoFAAS than higher-income children.

Non-elderly adults show little variation in average diet as income rises through most of the range. Lower-income, non-elderly adults have a mean HEI-2005 score of 55, one point less than the average for all non-elderly adults. Statistically significant differences in average diet do not appear among non-elderly adults until family income rises above 499% of FPL (roughly \$80,000 in annual income for a two-person family). Even at that high income level the difference is only a modest three points on the 100 point HEI scale.

Low-income elderly persons have better quality average diets than most affluent children and non-elderly adults. The average diets of elderly Americans show little variation across most of the income range; average diet quality again remains uniform until incomes rise above 499% of FPL.

To summarize the data in Table 2, in most cases household income can be doubled or even tripled without a significant impact on average diet quality. Health specialists may lament deficiencies in lower-income diets, but similar deficiencies occur among most Americans at all incomes, including the upper middle class. The main problem is that people enjoy eating

palatable foods which are usually high in sugar, salt or fat. The pursuit of palatability leads to over-consumption of calories, sodium, saturated fat, and SoFAAS. Simply raising income has a minimal effect, at best, on these pervasive food preferences. For example, the very affluent have the highest intake of SoFAAS.

Relationship of Increased Food Expenditures to Diet Quality

Even though diet quality changes little across much of the income range, it is possible that increases in income and food spending among very low-income households could lead to substantial improvements in diet quality. To examine this issue, the USDA contracted for a large-scale study from Mathematica Policy Research, Inc.¹⁵ The study examined whether increased food expenditures among SNAP (food stamp) recipients was linked to better diets. As the study states:

“Since SNAP is believed to work primarily through increasing food expenditures, a critical link to its success depends on whether greater food expenditures lead to greater nutritional quality in people’s diets... the goal of this study is to identify whether spending more money on food leads SNAP participants and, more generally, other low income households and individuals, to purchase and consume foods that are more nutritious....The desired outcome for [overall food] spending would be an increase in spending on foods recommended for frequent consumption and a decrease in spending on foods not recommended for frequent consumption.”¹⁶

However, the study found that a significant increase in food spending among SNAP recipients led to only a miniscule improvement in diets. Specifically, a 10 percent increase in food expenditures (equivalent to roughly \$30 per month) led to an increase in the HEI-2005 score of only 0.17 points on a scale of 0 to 100.¹⁷ An increase of 0.17 in HEI-2005 score is the equivalent to the added consumption of 1/30 of an apple or 1/30 of a cup of peas per day as a share of total food consumed. Thus, an increase in food expenditures of nearly \$30 per month yielded an increase in healthy food consumption equivalent to one apple or one cup of green vegetables over the course of the whole month.

Care is needed in interpreting these data. One might infer that an extra \$30 of food spending resulted in only one extra apple in healthy food while the rest of the added funds went to unhealthy food. That would be inaccurate; instead, as food spending increased, expenditures on

¹⁵James Mabli, Laura Castner, James Ohls, Mary Kay Fox, Mary Kay Crepinsek, and Elizabeth Condon, *Food Expenditures and Diet Quality Among Low-Income Households and Individuals, Final Report*, Mathematica Policy Research, Washington D.C., July 30, 2010.

¹⁶Ibid., p. xxii.

¹⁷ Ibid., p. 32.

healthy and unhealthy foods increased in nearly equal proportions. There was only the slightest shift toward improvement in diet, equivalent to one apple per month.

Increasing food expenditures can be very expensive. For example, there were 46.5 million persons receiving SNAP benefits per month in 2014. Increasing the value of SNAP benefits by \$30 per month for all beneficiaries would cost an extra \$1.4 billion per month or \$16.7 billion per year. The extra benefits would cause food expenditures on healthy and unhealthy foods to increase in roughly equal proportions while the net shift toward healthier diets would be negligible. An added \$16.7 billion in spending might improve diet among SNAP recipients by the equivalent of one cup of vegetables per month.

Moreover, the policy would be even less effective than it appears on the surface because a \$30 per month increase in SNAP benefit levels would not necessarily result in a \$30 increase in food expenditures. Most households receiving SNAP benefits also spend cash on food. Economic resources are fungible; an increase in SNAP benefits would generally lead to less cash spending on food. As a general rule of thumb, low-income households spend around one-third of their income on food; so it might require an increase of \$90 per month in total income to yield an increase of \$30 per month in food spending. If this calculation is roughly accurate, it would require an increase of nearly \$50 billion in annual income among SNAP beneficiaries to shift their average HEI-2005 score 0.17 points.

Food Insecurity and Diet Quality

A similar story holds for the relationship between very low food security and diet quality. Contrary to conventional wisdom, food insecurity has only a modest impact on diet quality. The average diet of adults with very low food security appears remarkably similar to that of an average adult.¹⁸ The average diets of VLFS adults and fully food secure adults are the same in: caloric intake, energy density, saturated fat, sodium and macro-nutrients. The average HEI-2005 score for VLFS adults is about 1.8 points below that of fully food secure adults.¹⁹ This difference is equivalent to consuming an extra two-fifths of an apple or two-fifths of a cup of green vegetables per day as a share of total food consumption.

Are Healthy Foods More Expensive?

¹⁸ Cindy W. Leung, ScD, MPH; Elissa S. Epel, PhD; Lorrene D. Ritchie, PhD, MS; Patricia B. Crawford, DrPH; Barbara A. Laraia, PhD, MPH "Food Insecurity Is Inversely Associated with Diet Quality of Lower-Income Adults", *Eat Right/Research and Professional Briefs*, June 12, 2014.

<http://elissaepel.com/pdfs/Leung%20et%20al%202014.pdf> One limitation of this study is that it compares food security status over a year with dietary intakes in a single day. VLFS adults are not food insecure in every month. If food intakes were measured in the same month an individual had VLFS, average intakes might be lower. On the other hand, the study does show that the long term diets of VLFS adults are very similar to food secure adults.

¹⁹ The study also measures differences in the new Alternate Healthy Eating Index-2010. The difference between VLFS and food secure adults on this scale was again very small: 1.5 points on a 110 point scale.

Discussions of income and healthy diets are often confused by simplistic claims that healthy foods are more expensive than unhealthy ones. These claims usually compare foods by price per calorie. Healthy foods such as fruits and vegetables have few calories and their price-to-calorie ratios are thus extremely high. Indeed, measured by price per calorie, vegetables such as lettuce, carrots, celery, and cucumbers are among the most expensive foods available, more expensive than steak.

A recent publication by USDA, however, shows that claiming healthy foods are expensive on the basis of price per calorie is often misleading.²⁰ No sensible diet recommends maximizing caloric intake through fresh vegetables; such a diet would be wildly expensive and nearly inedible. In fact, it would be extremely difficult to consume enough fresh vegetables to meet normal caloric needs. For example, it would take 100 cups of broccoli per day to provide the 2,500 calories required by a normal adult male.

Instead of the misleading calories-per-dollar standard, government healthy diet guidelines (such as the food pyramid, MyPlate, and the Healthy Eating Index) recommend a specific number of servings of vegetables and fruits per day. Measured on this appropriate per-serving basis, fruits and vegetables are actually cheaper than unhealthy foods.²¹ As the USDA study states:

“When measured on the basis of edible weight or average portion size, grains, vegetables, fruit, and dairy foods are less expensive than most protein foods and [unhealthy] foods high in saturated fat, added sugars, and/or sodium.”²²

In most cases, an increase in consumption of fruits and vegetables and a decrease consumption of unhealthy foods high in SoFAAS would actually lower diet costs while improving quality.

Junk Foods Are Not Cheap

Advocates often claim that the poor are forced to eat unhealthy junk food to fill empty stomachs and maintain minimum caloric intake. This argument founders on the fact that, even by the limited measure of price per calorie, junk foods are not particularly cheap. Table 3 shows the calories per dollar of food cost for various foods. The foods which provide, by far, the most calories per dollar and thus the cheapest way to fill empty an empty stomach are flour, rice, cornmeal, and peanut butter. These foods could be called traditional staples; purchased in bulk, these foods can fulfill the caloric minimum for an adult for 50 cents to \$1.50 per day.

Throughout most of U.S. history, Americans relied heavily on these foods.

Traditional staple foods can be a very cost-effective source of food energy for families that are trying to stretch their food dollars. They are far cheaper than junk food; corn muffin mix offers

²⁰Andrea Carlson, and Elizabeth Frazão. *Are Healthy Foods Really More Expensive? It depends on How You Measure the Price*, EIB-96, U.S. Department of Agriculture, Economic Research Service, May 2012.

²¹Ibid. p. 21

²² Ibid., p iii.

1,700 calories per dollar; oatmeal, 1,500; rice and beans, 2,200; self-rising cornmeal, 2,900; rice, 3,600, and all-purpose flour, 4,700. By contrast, junk food is far more expensive. For example, bargain brand cola offers 1,100 calories per dollar, potato chips provide around 750, cheese ball snacks offer 460, and frozen pizza provides 240.

Table 3

Cost of Food Energy

Efficient Sources of Food Energy

	Calories per dollar
All-purpose flour	4,717
Rice	3,599
Whole wheat Flour	2,996
Self-rising cornmeal	2,936
Rice and beans: one-to-one mixture	2,178
Oatmeal	1,800
Corn muffin mix	1,751
Peanut butter	1,750
Spaghetti	1,664
Oatmeal	1,500
Egg noodles	1,432
Grits	1,472
Brown rice	1,366
Pinto beans	756
Junk Food	
Bargain brand cola	1,100
Bargain brand potato chips	750
Frozen corn dog	508
Cheese ball snacks	460
Frozen pizza	240
Big Mac	138

Source: Survey of food items in grocery stores in northern Virginia

Hunger polemics aside, most people implicitly understand that junk and convenience foods are neither a cheap nor efficient way to fill an empty stomach. For example, most college students, at times, have faced the dilemma of running out of money for food toward the end of the month. But it would be a very odd student who addressed this problem by stocking up on soft drinks, potato chips, donuts and frozen pizza. Instead, students stave off the temporary shortages by buying the traditional staples listed in Table 3, implicitly recognizing that these items offer, by far, the most food per dollar.

The traditional staple foods are also comparatively healthy. In most cases, these foods are very low in saturated fat, sodium and added sugars. In isolation, these low-cost foods clearly do not provide a balanced diet, but they are much healthier than most junk and convenience foods found in conventional diets. Some traditional food combinations such as beans and rice are very nutritious, providing both protein and calories at a very low price.

Finally, some argue that financial constraints force the poor to eat foods with high energy density. Energy density is measured by calories per gram of food. Energy dense foods, in effect, have more calories per mouthful; this makes it easier to over-eat them and gain weight.²³ For example, it is easier to gain weight eating an energy dense food such as chocolate than a non-dense food such as apples.

Dietary expert Adam Drewnowski argues that money shortages force the poor to eat energy dense foods, leading to weight gain, obesity and health problems.²⁴ But this argument is again undermined by the simple fact that the cheapest foods, the traditional staples, actually have low to moderate energy density.²⁵ It is true that junk and convenience foods usually have high energy density, but the poor, like the general public, usually eat these foods because they are palatable not because they are a cheap source of calories. Overall, the diets of VLFS households do not have higher energy density than the diets of food secure households.²⁶

Very Low Food Security and Efficient Use of Food Dollars

VLFS households do not appear to spend food dollars efficiently. These households, disconcertingly, report spending, on average, roughly one-quarter of their food expenditures in fast food restaurants and vending machines.²⁷ This is an extremely inefficient use of scarce financial resources. For example, a nutritious meal of rice and beans cooked in the home

²³ Barbara Rolls and Robert A. Barnett, *The Volumetrics Weight Control Plan*, Harper Collins, New York New York, 2000.

²⁴ Adam Drewnowski and S.E. Specter, "Poverty and obesity: the role of energy density and energy costs", *American Journal for Clinical Nutrition*, January, 2004, pp. 6-16.

²⁵ Barbara Rolls, op. cit.

²⁶ Leung et al. op. cit., p. 7.

²⁷ Calculations from the U.S. Bureau of the Census, Current Population Survey, Food Security Supplement from December 2013.

provides around 2,200 calories for each dollar of food spending; by contrast, a Big Mac provides 138 calories for the same dollar, as well as a lot of unhealthy fat.

Many VLFS households also make unwise choices when purchasing food in grocery stores. Use of prepared, convenience and snack foods appears common. Remarkably, VLFS adults on average drink nearly two cans (22 oz.) of soft drinks per day.²⁸ Such eating patterns can lead to budgetary problems and food shortages at various times during a month. A clear pattern for many VLFS families is inefficient and unhealthy food expenditures at the beginning of the month followed by tight budgets and food shortfalls at the end of the month.

Low-income families place a very high priority on serving meat for dinner every day. A USDA-sponsored focus group survey of low-income mothers receiving food stamps (SNAP) reported the following:²⁹

Cultural tradition and the preferences of family members influence food stamp participants to continue serving high-fat meat products and other traditional foods. Focus group members reported spending a large percentage of their food stamp allotment on meat, although meat often is high in cholesterol, high in fat, and expensive. These reports confirm a pattern found in the survey data that shows that low-income families devote just over one-third of their food expenditures to meat. Food stamp recipients in all ethnic groups emphasized the importance of serving meat as a part of dinner. They indicate that meat is essential for dinner, that it is the food they “grew up with,” and that it implies success and status.³⁰

African American food stamp recipients are particularly emphatic about the importance of meat in a diet.

African American food stamp recipients in particular emphasized the need to have meat as a staple for all dinners. Survey data confirm the importance of meat to African American families: over 40 percent of food spending among African Americans is devoted to meat, compared with about one-third for other ethnic groups. Some African Americans said that eliminating meat is not an option, stating that meat is the essential component of dinner in an African American household. They associate purchasing and serving meat with pleasant meal memories, affluence, tradition, and feeding their families the “right” way.....[Recipients stated] “Nothing comes before my meat. It’s more filling than anything else.” “I was raised here eating red meat. It’s gone on for generations. If you’re sitting down for a meal, red meat is it.” “When you plan a

²⁸ Cindy Leung, op. cit. p. 3.

²⁹ Steven Bradbard, Eileen F. Michaels, Kathryn Fleming, and Marci Campbell, *Understanding the Food Choices of Low Income Families: Summary of Findings*, Report prepared for the U.S. Department of Agriculture, Food and Consumer Service, May 1997, <http://www.fns.usda.gov/sites/default/files/NUTRI.PDF> The focus groups were primarily composed on low income mothers although a few fathers also attended.

³⁰ Ibid., p. 8.

meal you start with the meat. I never had a meal without meat while I was growing up.” “60-75% of my food budget goes for meat.”³¹

A heavy emphasis on eating meat raises diet costs and often leads to an excessive intake of saturated fat. Despite high costs, VLFS households tend to eat slightly more meat than food secure households.³²

Very Low Food Security and Food Banks

Food banks provide free food to low income persons. Surprisingly, only a third of VLFS households report using food banks to obtain extra food.³³ Nearly two-thirds report that they do not have access to a food bank.³⁴

This is puzzling. Nationwide, there are over 30,000 food banks and food pantries.³⁵ That’s one food bank for every general zip code in the country, or 10 for each county. The District of Columbia has at least 37 food banks and pantries; New York City has 163. North Dakota has 138, nearly three for each county.³⁶

Most poor families should have access to food banks in their area. Three-quarters of poor household own cars; others are likely to have relatives and friends with cars, raising the possibility of pooled trips to obtain free food. Finally, urban food banks are likely to be located near public transit routes.

The fact that the majority of VLFS families report they have no access to food banks is perplexing and clearly calls for further research. It is possible that many of these households have food banks nearby but are unaware of them. If this is so, then VLFS problems could be reduced by having SNAP offices provide clearer information on the location and availability of food banks in the area.

However, SNAP and food insecure households also report that they do not use food banks because they do not like the types and quality of food provided.³⁷ The prospect that low-income families actively turn down free food that is available adds complexity to food insecurity issues.

Very Low Food Security and Cigarette Use³⁸

³¹ Ibid., pp. 8 and 9.

³² Leung, op. cit. p. 5.

³³ Calculations from the U.S. Bureau of the Census, Current Population Survey, Food Security Supplement from December 2013.

³⁴ Ibid.

³⁵ Laura Tiehen, “Private Provision of Food Aid: The Emergency Food Assistance System”, *Food Assistance and Nutrition Research Report*, Number 26-5, Economic Research Service, U.S. Department of Agriculture, August 2002.

³⁶ <http://www.foodpantries.org/>

³⁷ U.S. Department of Agriculture, Food and Nutrition Service, *SNAP Food Security In-Depth Interview Study: Final Report*, March 2013, pp. 32-33.

Cigarette smoking is a major cause of VLFS. VLFS adults are much more likely to smoke than are food secure adults; money that is spent on cigarettes cannot be spent on food, adding pressures to the monthly food budget. As Table 4 shows, nearly 45% of adults with VLFS during the year smoked cigarettes during the 30 days before the survey; by contrast, only 17.5% of food secure adults smoked in that period. On average VLFS adults (including smokers and non-smokers) consumed 8.5 packs of cigarettes per month. The average monthly cost was \$50, or 28% of the USDA thrifty plan for food expenditures for a single adult.³⁹

The nearly 45% of VLFS adults who smoked during the last month smoked almost every day, consuming around 19 packs of cigarettes during the month. The average cost of these cigarettes was around \$112 per month, or 63% of the food costs for a single adult under the thrifty food plan. Smoking is clearly a predominant factor leading to very low food security among these individuals.

Nearly two-thirds (62%) of the adults, who reported they “did not eat” for at least one whole day during the last 30 days because “there was not enough money for food,” smoked cigarettes during the month. Those who smoked did so nearly every day; on average, they consumed around 17 packs of cigarettes during the month at an estimated cost of \$98. The monthly cost of cigarettes for this group was equal to 56% of monthly food costs for a single adult on the thrifty food plan. Clearly smoking is a major factor causing many of these individuals to run out of money for food at various days during the month.

³⁸ Data in this section are calculated from the National Health and Nutrition Evaluation Survey for 2009-2010.

³⁹ Based on an average cost of a pack of cigarettes including non-brand cigarettes in 2014 according to *The Tax Burden on Tobacco: Historical Compilation Volume 49, 2014*, at http://www.taxadmin.org/fta/tobacco/papers/tax_burden_2014.pdf Thrifty food plan cost is based on 2015 data.

Table 4

Food Insecurity and Cigarette Use

	Adults with Full or Marginal Food Security	Adults with Low Food Security	Adults with Very Low Food Security	Adults Who Did Not Eat for at Least One Whole Day in the Last 30 Days
All Adults Including Smokers and Non-Smokers				
Percent of adults who smoked cigarettes in the last five days	17.5%	38.2%	44.6%	62.0%
Average packs of cigarettes smoked in the last month (all adults including non-smokers)	3.4	7.4	8.5	10.5
Average monthly cost of cigarettes at \$5.84 per pack (all adults, including non-smokers)	\$20	\$43	\$50	\$61
Monthly cigarette spending per adult as a percentage of the "thrifty food plan" for one adult (all adults, including non-smokers)	11.0%	24.0%	28.0%	35.0%
Adults who Smoked Cigarettes in the Last Five Days				
Days smoked cigarettes in last month	27	27	27	29
Average packs of cigarettes smoked in last month	19	19	19	19
Average monthly cost of cigarettes for smokers at \$5.84 per pack	\$113	\$113	\$112	\$98
Monthly cigarette spending per smoker as a percentage of the "thrifty food plan" for one adult	64.0%	64.0%	63.0%	56.0%

Note: Adults are persons age 20 and up. Food security status is at the individual level for the last 12 months.

Source: Data calculated from the National Health and Nutrition Evaluation Survey (NHANES) for 2009-2010

Very Low Food Security and Drug and Alcohol Abuse⁴⁰

Many VLFS adults make bad behavioral choices. Compared to other adults, VLFS adults are far more likely to use drugs, abuse alcohol, and to have been in drug rehabilitation. Table 5 shows data from the 2009-2010 National Health and Nutrition Evaluation Survey (NHANES). One-fifth of VLFS adults report using marijuana in the last 30 days, twice the rate of adults with full food security. One-eighth of an ounce of marijuana costs around \$40 to \$50. These individuals appear to spend money on illegal drugs early in the month and then run short of money for food later in the month. Demanding increased taxpayer funding to solve this problem seems clearly inappropriate.

One-quarter of VLFS adults report using heroin, methamphetamine, or cocaine at some point in their lives, although only 3% report using these drugs in the last 30 days. Nearly one-fifth report they have been in drug rehabilitation at some point. Regular alcohol use does not vary by food security status, but VLFS adults are twice as likely to report serious binge drinking in the past. One-quarter of VLFS adults report that there has been a time in their lives when they “drank 5 or more drinks of any kind of alcoholic beverages almost every day.”

Adults who went a whole day without eating in the last 30 days because of lack of funds for food are even more likely to report drug and alcohol problems. One-third of these individuals report using marijuana in the last 30 days, three times the rate of food secure adults. Nearly a third report having used heroin, methamphetamine, or cocaine at some time in their lives, and 13% report using these drugs during the last 30 days. Overall, one-third of these individuals report having been in drug rehabilitation and 42% report serious binge drinking at some point in their lives.

Drug and alcohol abuse are significant contributing factors to food shortages among VLFS adults. Drug costs reduce funds available for food, and marijuana use is correlated with lower levels of employment. Drug and alcohol abuse are symptomatic of lower levels of impulse control which are likely to exacerbate food security problems.

⁴⁰ Data in this section are calculated from the National Health and Nutrition Evaluation Survey for 2009-2010.

Table 5**Food Security and Drug and Alcohol Use**

	Adults with Full or Marginal Food Security	Adults with Low Food Security	Adults with Very Low Food Security	Adults Who Did Not Eat for at Least One Whole Day in the Last 30 Days
Ever used marijuana	57.5%	56.6%	62.3%	67.5%
Used marijuana in last 30 days	11.3%	24.4%	22.3%	33.5%
Ever used heroin, methamphetamine, or cocaine	16.7%	25.8%	24.7%	30.9%
Used heroin, methamphetamine, or cocaine in last 30 days	1.4%	5.0%	3.1%	13.2%
Ever been in a drug treatment or rehabilitation program	7.4%	15.9%	18.8%	34.7%
Average number of alcoholic drinks per week in last year	5.1	5.1	5.3	4.7
Severe binge drinking: ever a time in life where the individual drank five or more drinks per day almost every day	12.3%	24.9%	25.9%	42.0%

Note: Adults are persons age 20 and up. Food security status is at the individual level for the last 12 months.

Source: Data calculated from the National Health and Nutrition Evaluation Survey (NHANES) for 2009-2010

Food Insecurity and Nutrition Education

The Expanded Food and Nutrition Education Program (EFNEP), run by the USDA, provides nutrition education to low-income individuals with the aim of improving diet quality. Each year over a half million low-income individuals are enrolled in the program.⁴¹ Responses on pre- and post-program questionnaires suggest the program modestly improves diet quality among participants.

One study of EFNEP in Tennessee examined the impact of the program on food expenditures and diet quality using a controlled quasi-experimental evaluation. Nutrition education was provided to a randomly selected group of women who were poor or were receiving TANF, SNAP, WIC, or other welfare benefits. The evaluation compared low-income women who received nutrition education with a control group of similar women who did not participate.⁴²

Compared to the control group, women in the intervention group reduced food expenditures by \$10 to \$20 per month while improving diet quality. The intervention group was also less likely to run out of food at the end of the month.⁴³ A similar study of the Food Stamp Nutrition Education program in Indiana, using experimental and control groups selected by random assignment, showed that a five-lesson nutrition education program produced modest but significant reductions in food insecurity among participants.⁴⁴

One major problem with EFNEP is that the technology of instruction has not changed in 50 years. EFNEP generally uses individual instructors in small groups or one-on-one settings. This format greatly increases program costs and reduces the number of individuals who can be reached. Moreover, the quality of the instruction varies greatly according to the ability of the individual instructor.

In recent years, online interactive programs for instruction and behavioral change have become available in many fields. These programs seem to be able to promote increased knowledge and behavioral change at rates similar to traditional methods. Once developed, online, interactive teaching programs can be delivered at near zero cost. Using this format, it is possible to deliver information in an appealing manner featuring dramatic skits and visual displays. The quality of instruction will be uniform and programs can be tailored to specific ethnic, gender and age

⁴¹ <http://nifa.usda.gov/sites/default/files/resource/2014%20EFNEP%20Impact%20Report.pdf>

⁴² The evaluation design was quasi-experimental because the control group was composed of program eligible individuals who were delayed entry in the program; these individuals did not participate in the education until the evaluation had been completed.

⁴³ Janie Burney, Betsey Haughton, "EFNEP: A nutrition education program that demonstrates cost-benefit," *Journal of the American Dietetic Association*, January 2002.

⁴⁴ Heather A Eicher-Miller, April C Mason, Angela R Abbott, "The Effect of Food Stamp Nutrition Education on the Food Insecurity of Low-income Women Participants", *Journal of Nutrition Education and Behavior*, Volume 41, No. 2009.

groups. Refresher material, which is usually helpful in sustaining behavior change, can be provided at little or no extra cost. EFNEP should modernize, replacing its old small-group teaching format with new interactive programs. I will discuss this further in the policy recommendation section below.

Policy Recommendations: How to Reduce Intermittent Hunger and Improve Diet Quality within VLFS Households

The best mechanism to reduce intermittent hunger among VLFS households would be to modestly alter the food purchasing and consumption habits among potential VLFS households. These households should be encouraged to purchase food more healthfully and efficiently and to allocate food consumption more evenly throughout a month. Specifically, low-income households should be encouraged to take the following steps:

- 1) Low-income households at risk of VLFS should be encouraged to make one or two major food shopping trips per month, purchasing non-perishable food items in large bulk quantities. Such households should be encouraged to reduce expenditures on fast food, junk food and convenience foods and to increase expenditures on non-fattening traditional staple foods that are low in salt and saturated fat, but provide high levels of food energy per dollar of expenditure. As noted, such foods include: flour, rice, cornmeal, oatmeal, dried beans, and peanut butter.

These foods are healthier than junk and convenience foods. Critically, they provide the highest levels of food energy per dollar, providing between 1,500 and 4,000 calories per dollar. If needed, an adult can obtain a full day of food energy from these foods for 50 cents to a dollar a day. These foods are, by far, the best tools for staving off intermittent hunger.

Let me be perfectly clear. I am not suggesting that these foods in isolation provide a balanced diet; nor am I suggesting that poor households should exclusively or predominantly consume these foods. I am suggesting that a marginal increase in consumption of these foods accompanied by a marginal reduction in the consumption and fast, junk and convenience foods would improve the diet quality of many poor households and would stretch scarce food dollars. Increased consumption of these foods can, therefore, reduce hunger by reducing temporary food shortages within households.

- 2) Low-income households should be encouraged to purchase fewer convenience foods and more traditional staples even if the traditional foods require slightly more preparation. For example, quick breads (biscuits, muffins, corn bread, and scones) are a low-cost food that used to be a mainstay in many American homes. Quick breads use baking soda rather than yeast as the leavening. Simple to bake, quick breads can be prepared and served in the as little as 30 minutes, hence the name “quick”). They can be refrigerated and used

over several days. Quick breads are a remarkably cost effective food, capable of providing full food energy for an adult for as little as 50 cents per day.

Another traditional meal is rice and beans. Low in fat and high in protein, the mixture can provide full food energy for an *adult* for just over a dollar per day.⁴⁵ Encouraging low-income families to eat one or more meals per week featuring a beans and rice dish rather than meat would improve diet quality while stretching the family food budget and thereby reducing the risk of food insecurity. True, traditional staple foods do require more preparation time than microwaveable foods, but if available preparation time is limited they can be baked or cooked on the weekend, stored or refrigerated, and eaten during the week. Beans and rice have long been a mainstay in Hispanic cuisine. They have also had a role in African American cuisine.

Some may argue that these traditional grain-based foods are fattening and will lead to an increase in obesity over time. But obesity is linked to increased energy density in a diet, and these simple grains have low energy density. Compared to individuals with high energy density diets, those with low energy density diets consume less fat and added sugar but substantially more grains.⁴⁶

Most healthy eating guidelines call for increased consumption of grains and beans.⁴⁷ Encouraging low-income families to reduce consumption of meat, fast food, convenience and junk foods and increase consumption of traditional staples such as quick breads and beans and rice would help those families stretch their food dollars while improving diet quality.

In recent years the government's dietary guidelines have encouraged Americans to dramatically increase whole grain consumption so that whole grains and enriched or processed grains are eaten in equal amounts. This would require a dramatic change in overall eating patterns in the U.S.; very few Americans in any income class come close to meeting this standard. Of course, low-cost staple meals can easily be prepared with whole grains using whole wheat flour rather than enriched flour and brown rice rather than white rice. The drawback is that whole grains are somewhat more expensive and are often difficult to obtain in large bulk quantities. More importantly, policymakers must recognize that changing eating habits is difficult. Poor people like to eat foods they are

⁴⁵ The cost figure is for rice and dried legumes purchased in units of five or more pounds.

⁴⁶ AK Kant, and BI Graubard, "Energy density of diets reported by American adults: association with food group intake, nutrient intake, and body weight", *International Journal of Obesity*, May 2005, p. 953, table 2.

⁴⁷ In recent years, enriched grains have begun to acquire a bad reputation because, in the American diet they are often eaten in prepared foods that are high in added sugar and fat such as cookies, pastries, pizza, salty snacks. It seems likely that any potential negative effects of enriched grains are a product of the high fat, high sugar prepared foods which contain these grains rather than the grains themselves.

familiar with and that are part of their ethnic heritage. The more extreme the recommended change in diet is, the less likely it is to occur. It would be far easier to encourage poor whites and blacks to make traditional cornbread than to make whole wheat scones.

Again, let me be very clear: I am not suggesting that low-income families should subsist on cornbread and beans and rice. I am suggesting that consumption of traditional staples should be increased somewhat and consumption of junk and fast foods should be decreased. Many traditional foods are healthful and very cost effective; it is a shame that they are disappearing from low-income diets.

- 3) Low-income households should be strongly encouraged to stockpile inexpensive, healthy, non-perishable foods to protect against intermittent food shortages and hunger. These emergency stockpiles would be called on if normal foods begin to run short at the end of a month. Again please do not misinterpret this recommendation; the emergency store would be designed for short-term use only and would not be intended to provide a long-term balanced diet. The best foods to include in an emergency store are the traditional staples appearing in the top half of Table 3. As noted, these foods can fill empty stomachs and provide full food energy for an adult for \$7 to \$10 per week. A one-week emergency food store for a three-person family would thus cost \$30 or less; this sum represents about 7% of the median monthly food expenditures of a three-person VLFS household. In good circumstances, the emergency food supply would sit on the shelf unused; however, if misfortune occurs and need arises it would be available to protect against food shortages and hunger.

Further Recommendations: Proposed Government Policies to Address Intermittent Hunger and Very Low Food Security

SNAP offices should provide clients with the following:

- 1) Information on the cost effectiveness of various types of food and on the importance of buying non-perishable staple food in bulk.
- 2) Information on preparing traditional low-cost staple foods along with simple, appropriate recipes that, preferably, have low preparation times.
- 3) Information on healthy low-cost foods.
- 4) Information on food banks in the area.
- 5) Information stressing the importance of maintaining an emergency food supply to protect against temporary food shortages and the best types of food to include in the emergency store.

This information should be provided by brochures, DVDs, and through interactive teaching programs. Materials should be designed for low-income families and tailored for specific ethnic groups, providing easy-to-prepare, healthy recipes that are most appropriate for each group.

Applicants to the SNAP programs should be required to complete an interactive course covering these subjects at the time of application and recertification. Additional materials should be given to SNAP recipients for use in the home. Similar materials should be distributed for free through food banks.

The food items that can be purchased with SNAP benefits should be limited. SNAP recipients should not be permitted to use their benefits to purchase junk food, particularly sugar-sweetened soft drinks. Since recipients use both SNAP and cash for food purchases, it is unclear to what degree this rule would actually limit their soft drink purchases. But it would send a clear and helpful message to recipients about healthy food choices.

Finally, the Temporary Food Assistance Program (TEFAP) should be redesigned to more effectively combat hunger and food shortfalls. TEFAP provides about one-sixth of the food distributed in food banks. TEFAP is currently designed to provide low-income persons with a wide variety of moderate priced foods; it currently provides 900 different food items. TEFAP should be redesigned to serve as an anti-hunger program, providing families with the low-cost emergency food staples described above. By providing less expensive foods, TEFAP could greatly increase the number of meals provided and clients served. USDA could also experiment with providing TEFAP emergency food supplies directly to families at SNAP offices. For example, at the time of SNAP application, the SNAP office could determine if an applicant family had a history of VLFS. If the answer is yes, the office could supply the family with a stock of TEFAP emergency foods and instruct the family to save the food as a protection against future hunger.

Conclusion

Most discussions of hunger or “very low food insecurity” ignore the behaviors that contribute to the problem. Costly and inefficient food expenditures are a major factor. Households with very low food security (VLFS) spend a quarter of their food dollars in fast food restaurants and vending machines. Adults with VLFS drink nearly two cans of soda per day. Given this wasteful spending, it should be no great surprise if these individuals run short on money for food toward the end of the month. Public policy should encourage at-risk individuals to purchase healthier, less costly foods and to allocate food spending evenly throughout the month.

Smoking is another major factor contributing to hunger or very low food security in the U.S. Some 45% of adults with very low food security regularly smoke cigarettes. Consuming on average 19 packs of cigarettes per month, these individuals spend an estimated \$112 each month on tobacco. Since money spent on cigarettes cannot be spent on food, regular smoking, in many

cases, leads directly to very low food security and hunger. Simply calling for more generous government food benefits in these circumstances is clearly inappropriate.

Illegal drug use is also a factor. Adults with VLFS are twice as likely as the general public to purchase illegal drugs. More than a fifth of VLFS adults used marijuana in the last 30 days. Obviously, money spent on illegal drugs cannot be spent on food. Nearly a fifth of VLFS adults report having been in drug rehabilitation, and a quarter admit to severe binge drinking in the past. These individuals exhibit symptoms of impaired self-control that can exacerbate food security problems.

Treating food security as a stand-alone nutrition issue independent of the behaviors linked to it will lead to unwise public policy.

I thank the Commission for the opportunity to testify today.