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Cornhusker Economics

Agricultural Economics Department

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Health, Obesity, and Behavioral Economics

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Cornhusker Economics



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Health, Obesity, and Behavioral Economics

Market Report	Year Ago	4 Wks Ago	1/2/15
Livestock and Products,			
Weekly Average			
35-65% Choice, Live Weight	138.86	172.38	168.21
Nebraska Feeder Steers, Med. & Large Frame, 550-600 lb	205.20	303.83	278.53
Nebraska Feeder Steers,	470.00	050.04	000.07
Choice Boxed Beef.	172.30	256.64	228.67
600-750 lb. Carcass.	200.83	256.78	247.40
Carcass, Negotiated	78.67	85.91	75.82
Pork Carcass Cutout, 185 lb. Carcass	00.05	00 50	05.00
Slaughter Lambs, Ch. & Pr., Heavy,	03.05	92.00	05.20
Wooled, South Dakota, Direct.	*	*	*
FOB	364.03	384.05	376.27
Crops,			
Daily Spot Prices			
Imperial, bu	6.10	6.00	5.67
Corn, No. 2, Yellow Nebraska City, bu	4 11	3 52	3 81
Soybeans, No. 1, Yellow	4.11	0.02	0.01
Nebraska City, bu	12.51	9.62	9.85
Dorchester, cwt.	7.18	6.73	7.43
Oats, No. 2, Heavy Minneapolis, Mn. bu	3 70	3 21	3 35
	0.70	0.21	0.00
Feed Alfalfa, Large Square Bales,			
Good to Premium, RFV 160-185	220.00	*	*
Alfalfa, Large Rounds, Good	220.00	+	*
Platte Valley, ton.	130.00	^	^
Nebraska, ton.	95.00	*	*
Dried Distillers Grains, 10% Moisture Nebraska Average	190.00	125.00	184.00
Wet Distillers Grains, 65-70% Moisture	61 50	1E E0	57 50
* No Market	06.10	45.50	57.50
No Mariot			

Non-communicable diseases (NCD) such as cancer diabetes, and heart disease impose significant human and economic costs. The occurrence of NCDs is the result of multiple factors; in many cases, individual choices increase or decrease the likelihood that these diseases will occur. Preventive behaviors, though effective at preventing the occurrence of many of these diseases, are adopted less frequently than would be optimal. Behavioral economics, a field of economics that has integrated findings from psychology into the economic model of choice, provides important insights into why people take preventive measures less frequently than they should. Behavioral economic models are particularly important under certain conditions, and a few that are relevant to health are highlighted here. Many people are presentbiased-they want to receive benefits immediately and to postpone costs—so when the costs and benefits of individuals' decisions occur at different points in time, individuals tend to overweight immediate benefits and underweight future costs. Second, people have finite self-control which particularly affects decision-making when combined with fluctuating physical or emotional states-hunger or stress, for instance. For instance, people make more



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University of Nebraska Extension educational programs abide with the non-discrimination policies of the University of Nebraska–Lincoln and the United States Department of Agriculture. cognitive errors when they experience stress than under normal conditions (Mani et al., 2013).

To discuss a specific NCD, we will examine obesity. In the United States obesity is one of the most important NCDs, and is a risk factor for other conditions such as type-2 diabetes, heart disease, and certain types of cancer. Obesity imposes personal and society-wide costs in the United States. These costs are borne directly, through increased health care expenditures, and indirectly, by increasing health-related absenteeism, reducing productivity of workers, decreasing quality of life, and shortening lifespan. Over one-third of adults in the U.S. are obese (Ogden et al., 2014), a number that has nearly tripled over the past half century (Ogden and Carroll, 2010). Finkelstein et al. (2009) estimated the annual direct medical cost of obesity, including inpatient and outpatient treatments and drug expenditures, to be \$147 billion. Obesity-related absenteeism and reduced productivity is cumulatively thought to cost the economy more than \$40 billion per year (Cawley et al., 2007; Gates et al., 2008). Additionally, individuals in the U.S. spend approximately \$60 billion per year on weight loss or dietary control products (PCG Advisors, 2009).

Though obesity is certainly a highly complex problem involving access to foods, cultural food traditions, nutritional knowledge, and opportunities to exercise; in a simplified sense, it can be modeled as the relationship between energy consumed and expended. Choosing what to eat frequently involves balancing the immediate trade-off between a tasty, less healthy item and a healthier—but perhaps less satisfying—option against the long-term effect of these choices on health. Personal and policy options derived from behavioral economic models can help individuals (consciously or unconsciously) make healthier choices.

Initiatives are already underway at multiple levels to promote healthier lifestyles. The United States Department of Agriculture has been funding research to inform the design of "smarter lunchrooms", to encourage the nation's schoolchildren to make healthier food choices, and to increase fruit and vegetable consumption. Recommendations include prominently and attractively displaying fruits, making healthier items the first thing that students see, and using marketing techniques to give healthy foods fun or descriptive names. Private groups have partnered with farmer's markets and grocery stores to increase fresh fruit and vegetable consumption among Supplemental Nutrition Assistance Program (or, SNAP—formerly the Food Stamp program) recipients by giving them one dollar they can use to buy locally grown foods for every dollar spent on fresh produce.

Behavioral economics has also informed—or can explain the rationale behind-various strategies to promote healthier choices. Among the strategies available to people are setting up times to exercise with friends, incentives programs where insurance deductibles decrease or increase based on the amount of exercise they complete, or writing contracts to compel themselves to reach their goals. Central to all of these approaches-with the aim of overcoming present bias-is the selfimposition of a cost for failing to exercise selfcontrol. StickK, a company founded by a professor of Economics at Yale University, allows individuals to create a contract with themselves to meet goals and provides, for those who feel they need extra motivation, the choice of having their money sent to a charity whose aims they oppose if they fail to meet the terms of the contract. A relatively young field, behavioral economics will continue to provide novel insights into the design of personal, private, and public policies to promote healthier choices

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