# Economics 001 Principles of Microeconomics

Professor Arik Levinson

#### •Lecture 10

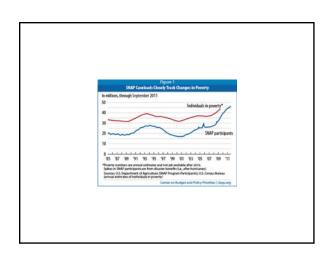
- preferences and demand (continued)
- applications

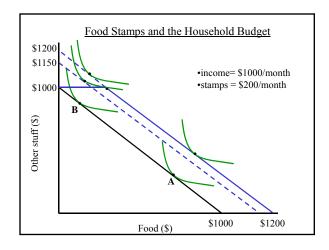


### Example: Food Stamps ("SNAP" as of 10/1/2008)

- Food Stamp Act of 1964
- · USDA Thrifty food plan
  - benefits=(cost of TFP) 0.30 x (income)
- 45 million people in FY 2011 (14% of US)
- 21 million households (18% of US)
- > \$72 Billion in 2011
- Average monthly benefit = \$284 per household \$134 per person
- Overhead 4.7%

Food Stamp Program Participation and Costs			
Fiscal Year	Average Participation	Average Monthly Benefit Per Person	Total Annual Benefits
	Thousands	Dollars	Millions of Dollars
1992	25,407	68.57	20,905.
1994	27,474	69.00	22,748.
1996	25,543	73.21	22,440.
1998	19,791	71.12	16,890.
2000	17,194	72.62	14,983.
2002	19,096	79.67	18,256.
2004	23,858	86.03	24,629.
2006	26,672	94.31	30,185.
2008	28,409	101.52	34,608.
2009	33,490	125.31	50,359.
2010	40,302	133.79	64,704.
2011	44,709	133.85	71,812.:





### Substitution Effect and Income Effect

#### Substitution effect

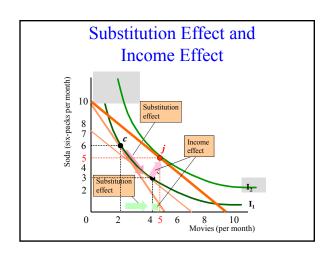
The effect of a change in price on the quantity bought when the consumer (hypothetically) remains indifferent between the original and the new situation.

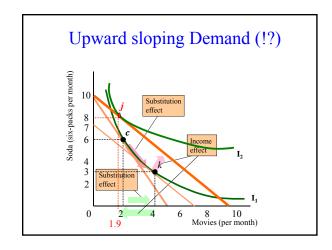
### Substitution Effect and Income Effect

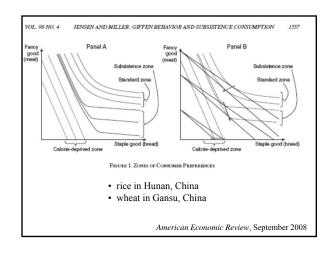
#### Income effect

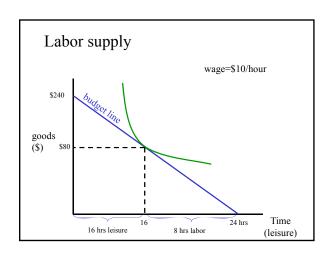
The change in consumption that results from a change in the consumer's income, ceteris paribus.

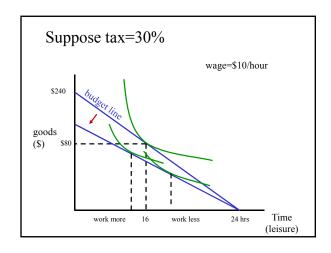












### Two effects of a wage increase

- 1) opportunity cost of leisure higher
  - so work more
  - (substitution effect)
- 2) budget possibilities larger
  - so work less (if leisure a normal good)
  - (income effect)
- 3) Question:
  - why does income effect work in opposite direction to substitution effect?

## Elasticity of labor supply in the USA

- $\eta^{LS}$  for men  $\approx 0.1$
- $\eta^{LS}$  for women  $\approx 0.9$

