

Unit 2 Economics

Microeconomics: Supply and Demand

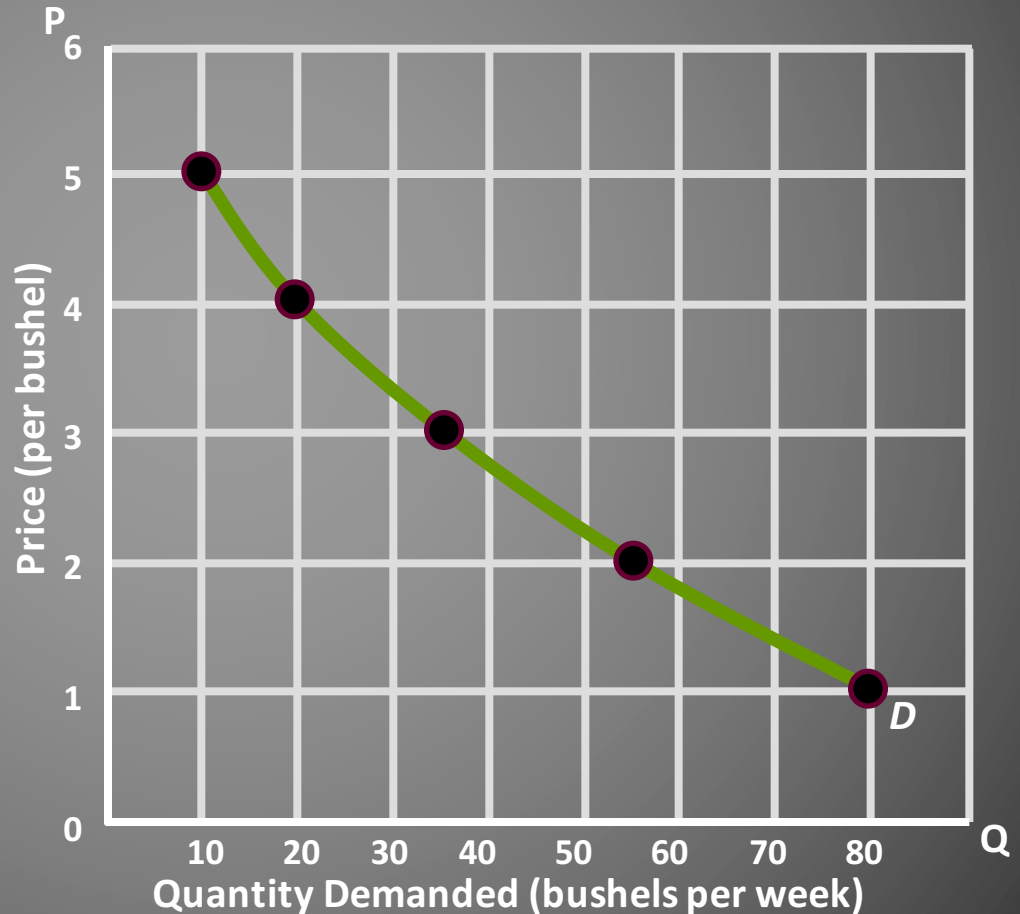
DEMAND

- **Definition** – the willingness and ability to purchase goods or services at various prices
- **Demand Schedule** – table/chart listing prices and quantities demanded
- **Demand Curve** – graph showing all the combinations of price and quantity demanded of a particular good or service
- **Law of Demand** – as prices fall, quantity demanded will rise, and as prices rise, quantity demanded will fall. Inverse relationship.
 - **A change in the price of a product results in a change in *QUANTITY DEMANDED!* (it does *NOT* shift Demand)**
- **Diminishing Marginal Utility** – successive units of a particular product yield less marginal utility (each additional product consumed brings less satisfaction)

Individual Demand

Individual Demand

P	Q_d
\$5	10
4	20
3	35
2	55
1	80



Individual Demand

Determinants of Demand

(factors that cause a shift or change in Demand)

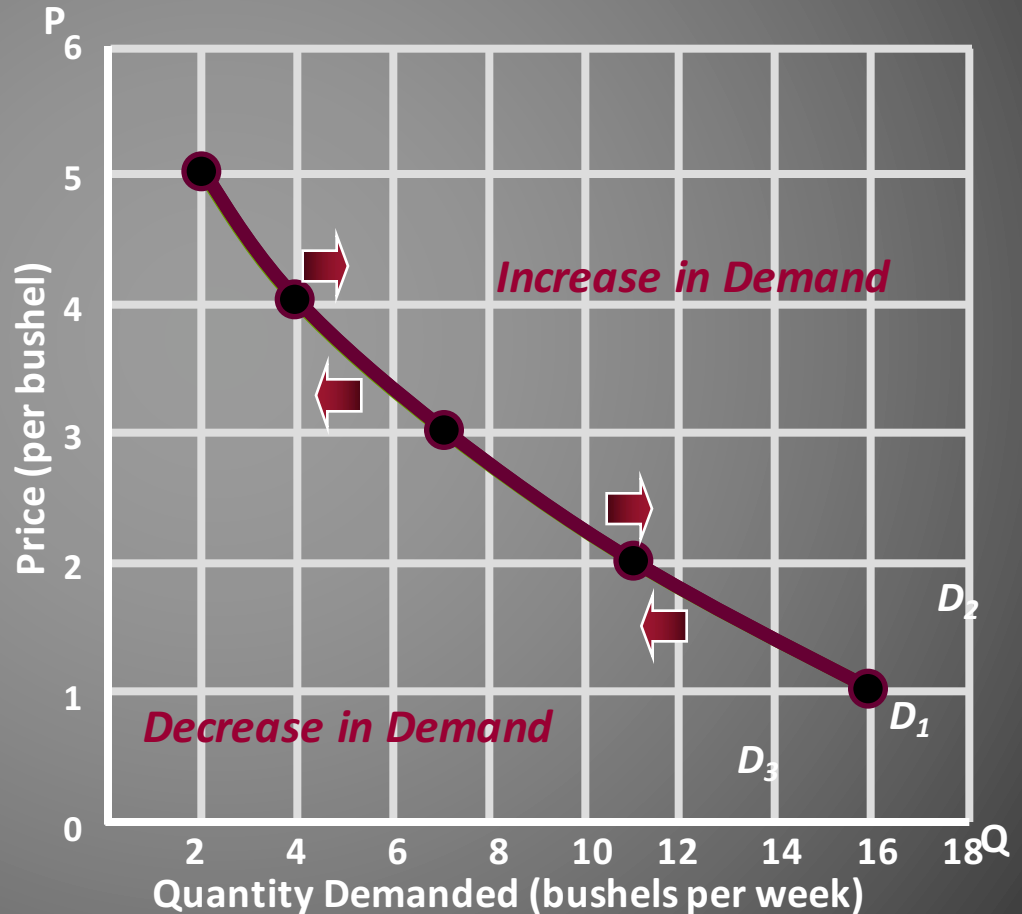
- Tastes and preferences
- Number of Buyers (Population)
- Income
 - Normal Goods
 - Inferior Goods
- Price of Related Goods
 - Substitute Good
 - Complementary Good
- Consumer Expectations

Individual Demand

Demand Can Increase or Decrease

Individual Demand

P	Q _d
\$5	10
4	20
3	35
2	55
1	80

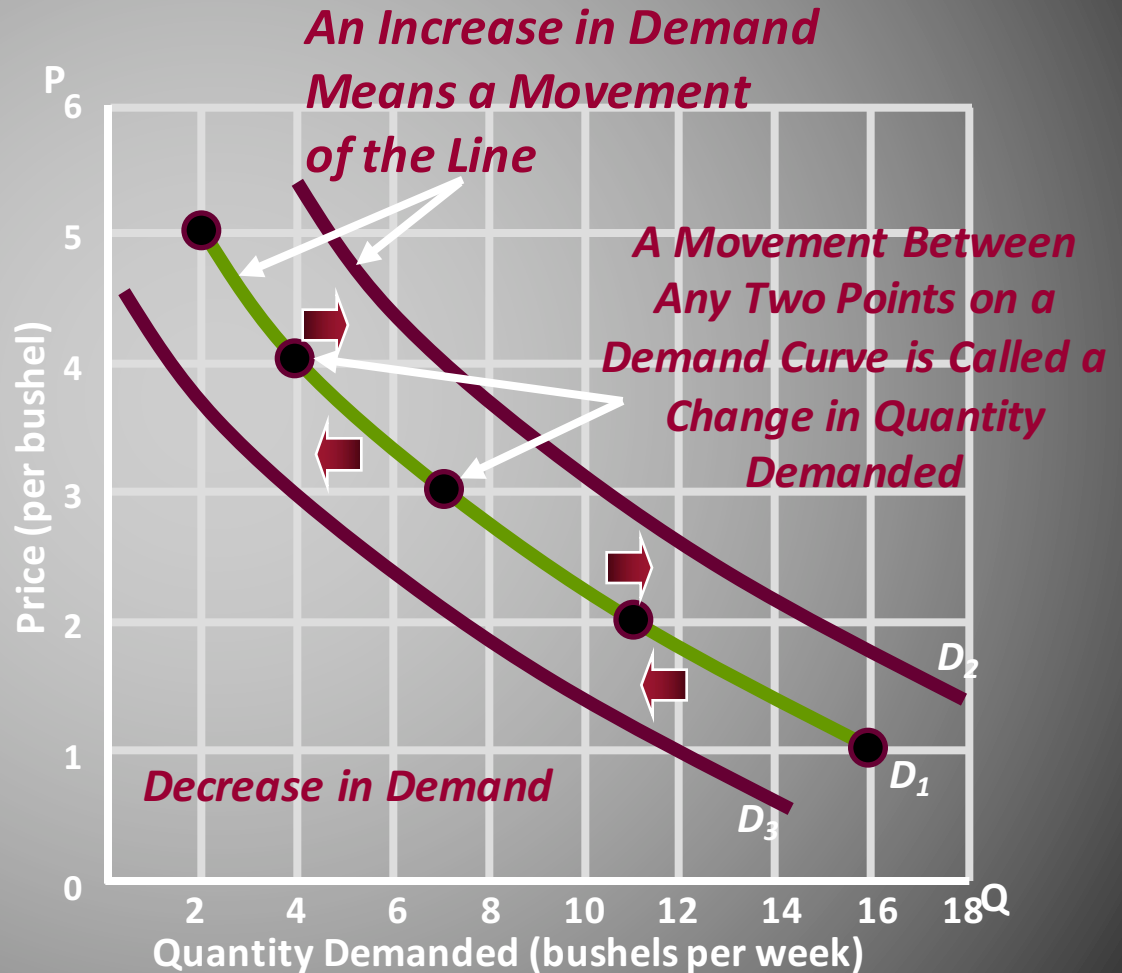


Individual Demand

Demand Can Increase or Decrease

Individual Demand

P	Q _d
\$5	10
4	20
3	35
2	55
1	80



Elasticity of Demand

- Concept measuring *responsiveness* to price changes
- Relatively Elastic (small change in Price results in a large change in Q Demanded)
- Relatively Inelastic (large change in Price results in a small change in Q Demanded)

Determinants of Elasticity

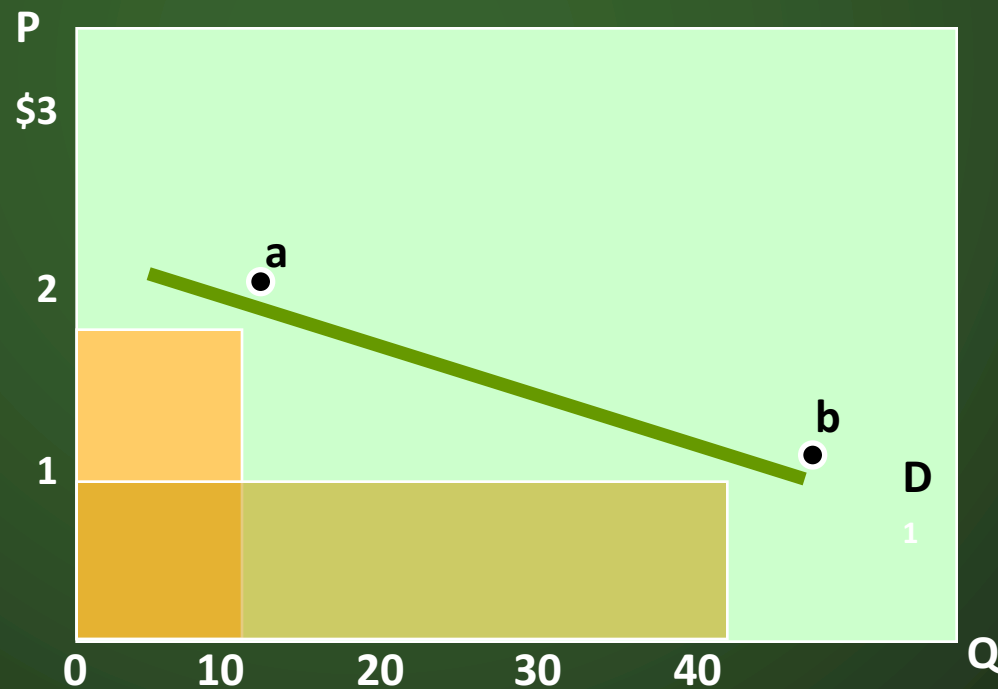
- Substitutability (more substitutes = more elastic)
- Proportion of Income (larger the portion of income = more elastic)
- Luxuries (more elastic) versus Necessities (less elastic/inelastic)
- Time (more time = more elastic)

Relatively Elastic Demand

- **Total Revenue (TR)**

$$TR = P \times Q$$

Elastic Demand (lower prices = higher total revenue, higher prices = lower total revenue, Inverse relationship)

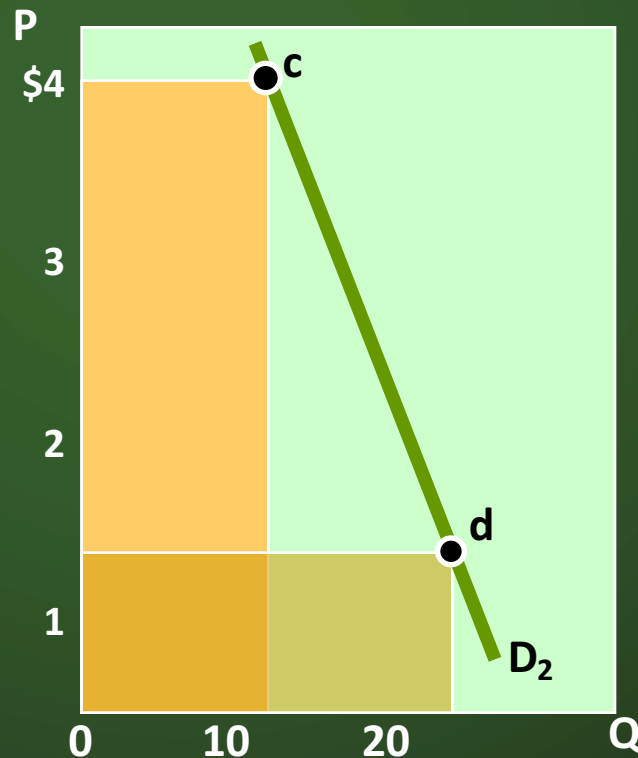


Relatively Inelastic Demand

- **Total Revenue (TR)**

$$TR = P \times Q$$

Inelastic Demand (lower prices = lower total revenue, higher prices = higher total revenue, direct relationship)

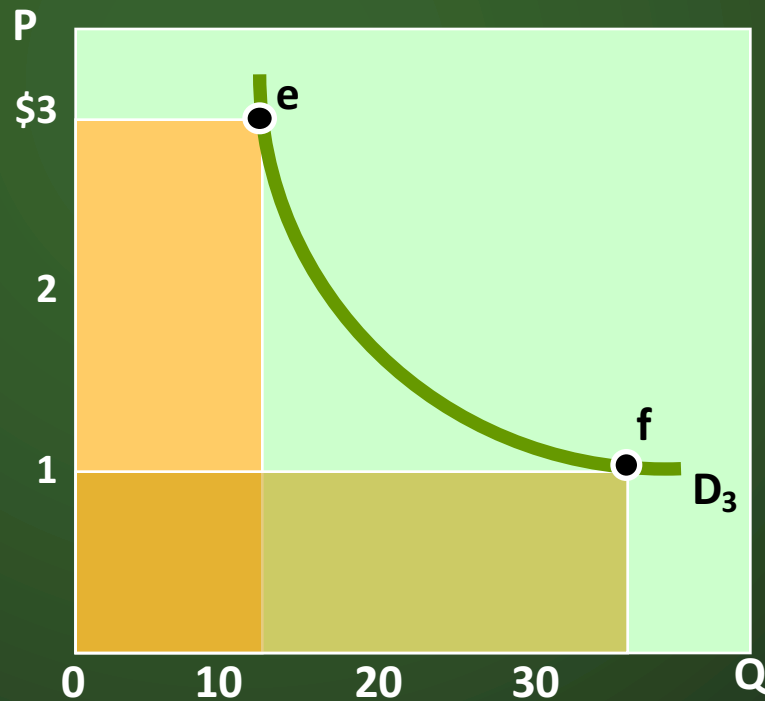


Unit Elasticity

- **Total Revenue (TR)**

$$TR = P \times Q$$

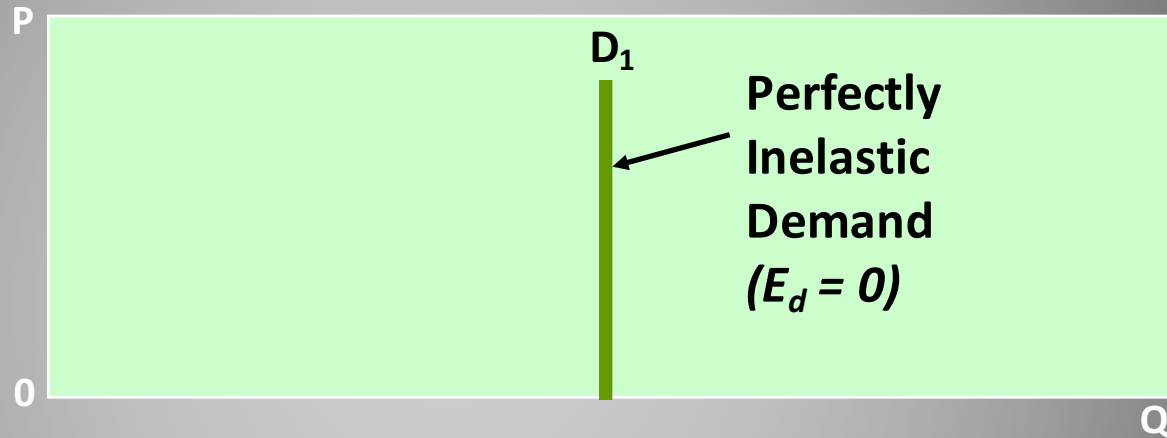
Unit-Elastic (changes in price do not change total revenue)



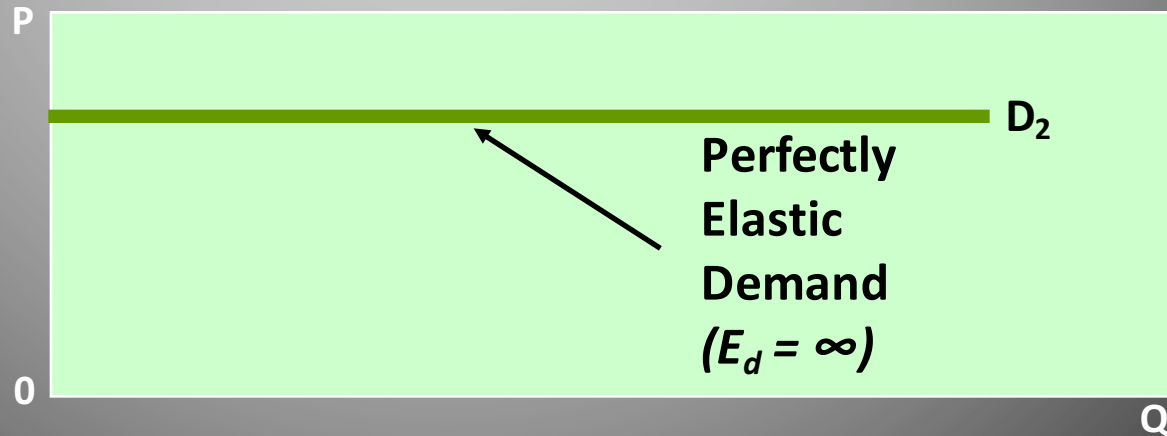
Price Elasticity of Demand

Extreme Cases

Perfectly Inelastic Demand



Perfectly Elastic Demand



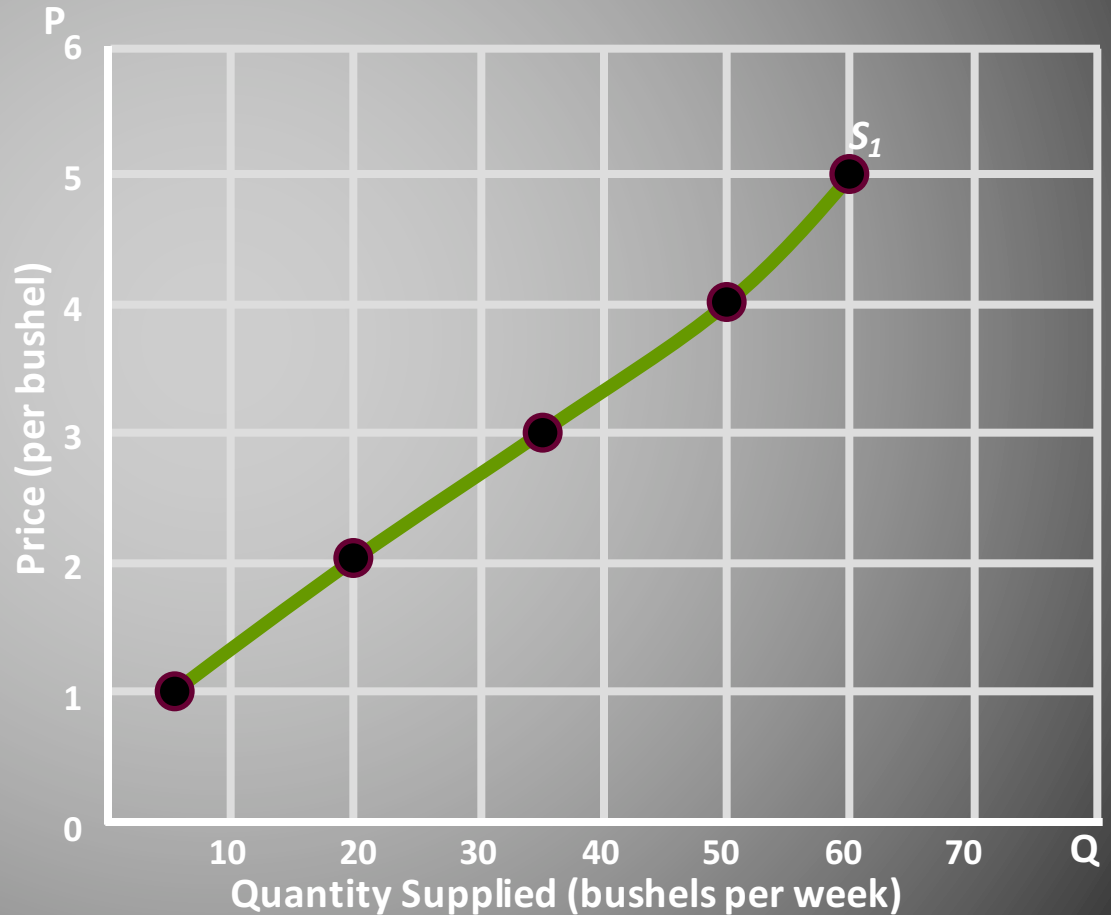
Supply

- **Definition** – amount of a product or service that producers are willing and able to make at various prices
- **Supply Schedule** – table/chart listing the quantities that will be produced at each price
- **Supply Curve** – a graph showing the various combinations of prices and quantities supplied
- **Law of Supply** – as prices rise, quantities supplied rise, as prices fall, quantities supplied fall (direct relationship)
 - A change in the price of a product results in a change in the **QUANTITY SUPPLIED!** (it does **NOT** shift Supply)

Individual Supply

Individual Supply

P	Q_s
\$5	60
4	50
3	35
2	20
1	5



Individual Supply

Determinants of Supply

(factors that cause a shift or a change in Supply)

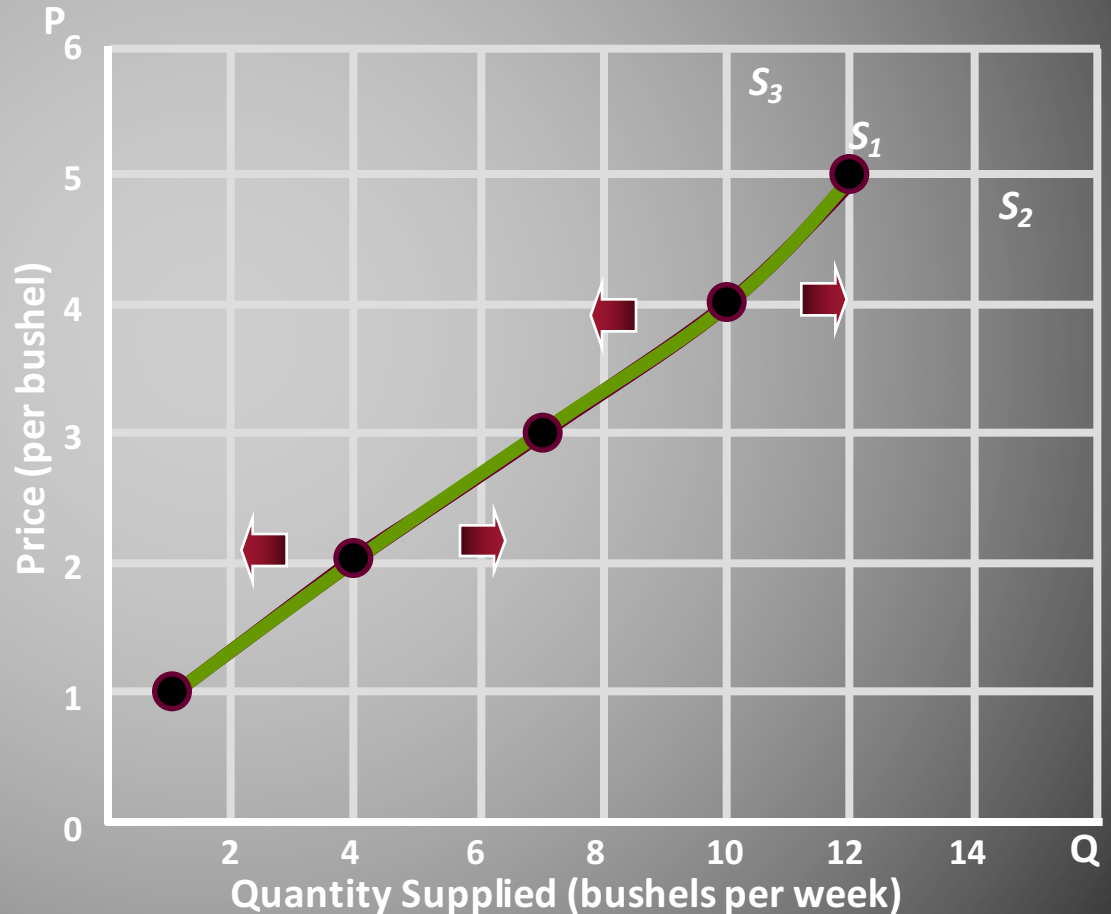
- Resource Prices (inputs)
- Productivity
- Technology
- Taxes and Subsidies
- Government Regulation
- Producer Expectations
- Number of Sellers
- If it becomes cheaper, easier, or faster to make products, then supply will increase
- If it becomes more difficult, more expensive, or slower to make products then Supply will decrease

Individual Supply

Supply Can Increase or Decrease

Individual Supply

P	Q _s
\$5	60
4	50
3	35
2	20
1	5

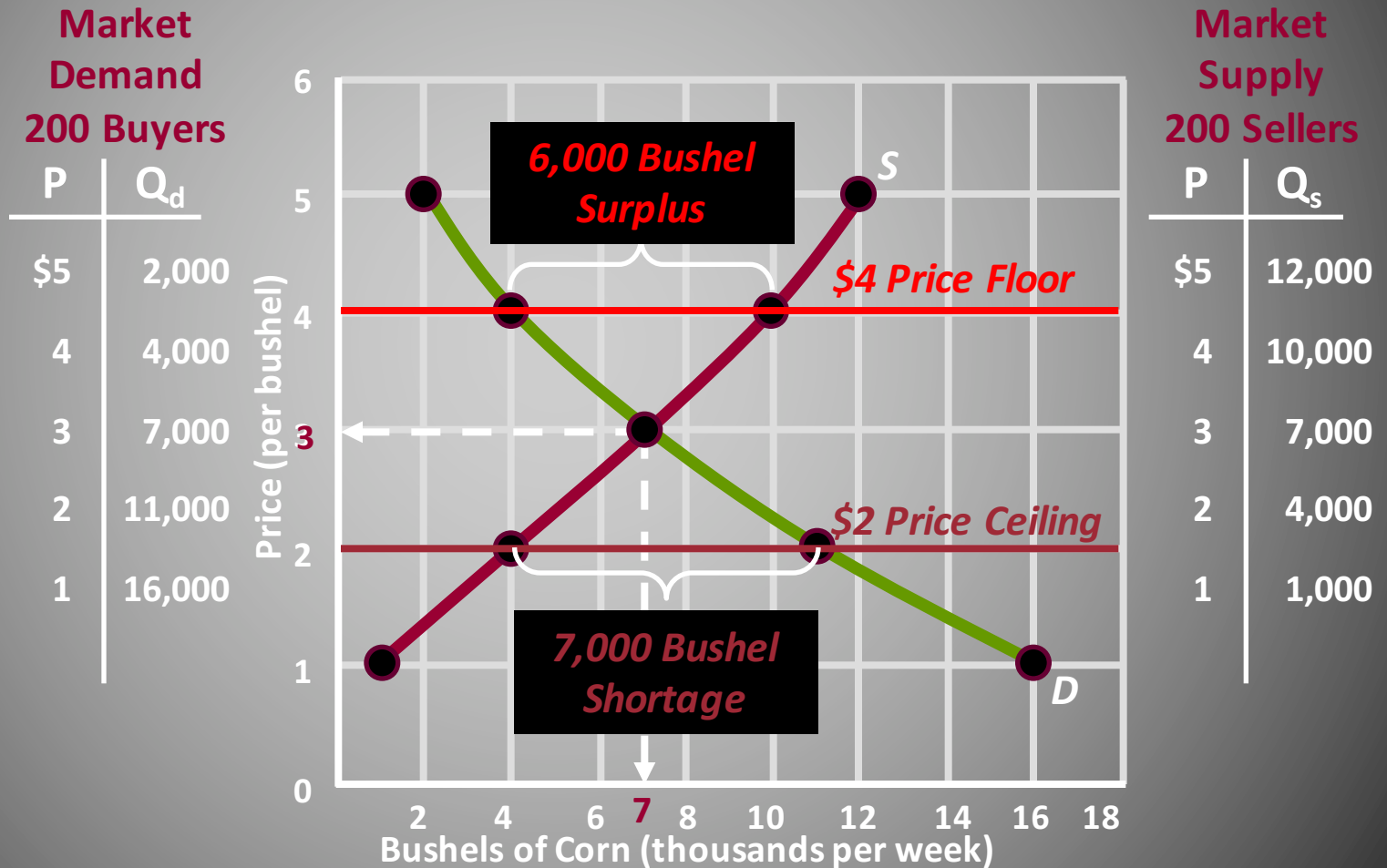


Market Equilibrium

- Equilibrium Price – price where quantity demanded = quantity supplied
- Equilibrium Quantity – quantity where quantity demand = quantity supplied at the equilibrium price
- Surplus – when quantity supplied $>$ quantity demanded (occurs at prices above equilibrium)
- Shortage – when quantity demanded $>$ quantity supplied (occurs at prices below equilibrium)
- Rationing Function of Prices – the ability of the competitive forces in the market to bring the market to equilibrium

Market Equilibrium

200 Buyers & 200 Sellers



Government-Set Prices

- Price Ceilings on Gasoline
- Rationing Problem
- Black Markets
- Rent Controls
- Price Floors on Wheat
- Optimal Allocation of Resources