Market Failures (Chapter 2)

Reasons for government intervention in the market:

- 1. Provideinformation and assure information flows.
- 2. Combatexternalities
- 3. Providepublic goods
- 4. Controhoncompetitive behavior.
- 5. Change incomdistribution.

The first four reasonsmay be justified because they promote Pareto optimality (efficiency). The fifth reason may be justified also if society desires to guide the economy to a particular Pareto optimal resource allocation, for example, one that is more equitable.

1. Information

Some examples of government policies to promote the dissemination of information:

- 1. Education and extension.
- 2. Public supported media and information delivery (information highway).
- 3. Price assembly and distribution by government.
- 4. Labeling requirement. Truth-in-advertising policies.

2. Externalities

Externalities xistwhen the activities of one or more agents affect he preferences or technologies of other agents. There regative and positive externalities, as well as production and consumption externalities.

Negative Externalities reduce utility or productivity. Example: pollution.

Positive Externalities increase utility or productivity. Example: bees and pollinating apple trees.

Production Externalities occur when productivityof an individual is affected by activities of others. Example: The smoke from a factory decreases the productivity of a nearby "air-dry" laundry.

Consumption Externalities occur when the welfare of individuals is affectedoby sumption levels of other people. Examples:

- Noise pollution--people are affected negatively by blaring music at midnight.
- People may feel bad (suffer reduced utility) when other people starve.
- Envy—people'swelfare may be reduced when viewing other people'ssuccess or high consumption levels.
- Consumptionexternalities lead to charity and raise issues of equity.

3. Public Goods

Publicgoods can be consumed concurrently by more than one individual and are free to access. Examples include:

Knowledge from education and public research National security International trade agreements Infrastructure, such as roads, bridges, etc. Environmental amenities, such as clean air, nice scenery

4. Noncompetitive Behavior

There are many forms of noncompetitive behavior. Examples of the more extreme forms include:

Monopoly:	One agent controls supply of a good.
Monopsony:	One agent controlsdemand for a
	good (unions).
Middleman:	One agent buys the product from
	suppliers to sell to demanders.

Other forms of noncompetitivebehavior include cartels, oligopolies, and monopolistic competition. Policies used to control noncompetitivebehavior include anti-trust legislation and regulat**ionton**fal monopolies (e.g., public utilities).

5. Distribution

Governments change the distribution of income and/or wealth through government transfer policies such as:

Income Taxes and Inheritance Taxes, Social Security, Medicare, Medicaid, and AFDC.

Welfare Analysis: The Inefficiency of Monopoly (One Seller)



Figure 0.2

MR= marginal revenMC = marginal cost

Optimal outcome: MC = demand at point E. Optimal Output = Q*. Consumer PricesanPe as MC. Consumer Surplus = area AEP*. Producer Surplus = area P*EB. Total Surplus for society under optimal outcome = AEB.

Monopoly outcome: MC = MR at point C. Output $Q_h < Q_*^*$ Consumer Price \neg_m Prot same as MC ($MC = P_{nC}$). Consumer Surplus = area ADPProducer Surplus = area DEB. Consumersose area P_m DEP*, relative to optimal outcome. Monopolisgains area (P_m DFP* - FEC), relative to opt. outcome. Total Surplus for society under monopoly = area ADCB. Total Surplukoss for society under monopoly = area DEC.

Welfare Analysis: The Inefficiency of Monopsony (One Buyer)



MB = marginal benefit = demandMC = marginal cost, MO = marginal outlay

Optimal outcome still at E (where MB = MC)

A Monopsonist is a noncompet**it**iver The Monopsonist reduces purchases to, Owhere marginal outlay (MO) equals marginal benefit (MB).

At F, marginal benefit to monopsonist = V. Price paid by monopsonist to producers = P Monopsonist gains P*DCFED. Producers lose P*DCPDEC. Social welfare loss because of monopsony = FEC.

Welfare Analysis: The Inefficiency of "The Middleman"



Figure 0.4

D = demand MC = marginal cost MO = marginal outlay MR = marginal revenue

There are now three economic players: consumers, producers and he middleman. Middleman is monopolyto consumers; monopsony to producers. Middleman produces where MR= MO. MiddlemanSurplus= area P_CCBP_p . Less output is produced than under monopolyor monopsony. Welfare loss due to middleman = area BEC, relative to optimal outcome.