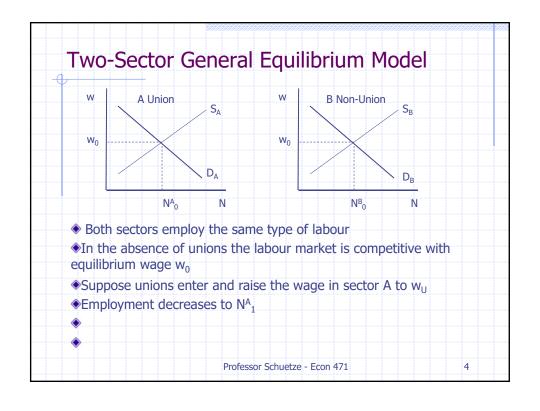


Union Impact on Wages and Benefits A great deal of research has focused on estimating the impact of Unions on wages A simple approach to doing this is to compare the average wages in the two sectors Union –nonunion wage differential: There are a number of problems with using this

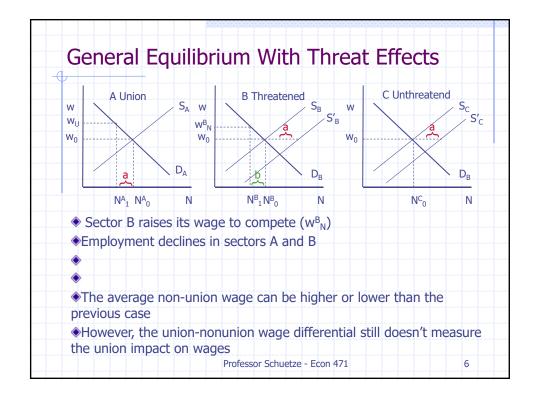
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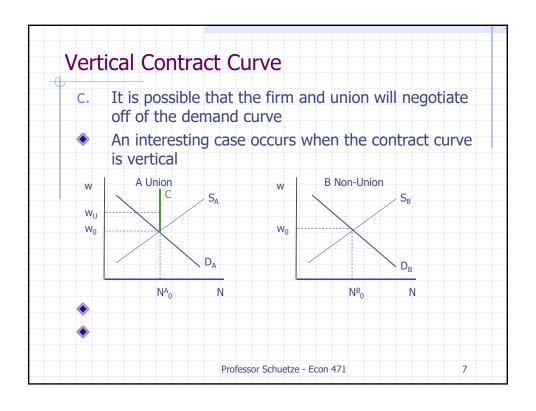
simple method

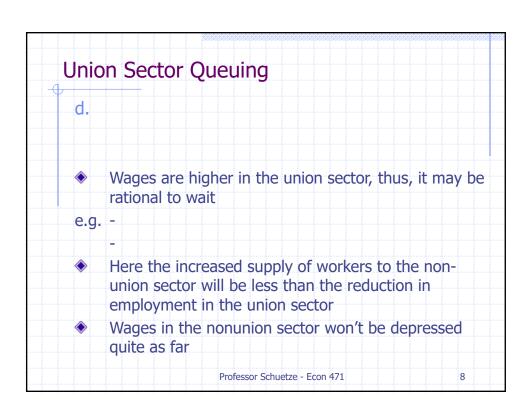
Problems/Difficulties 1. The nonunion wage that prevails in the presence of unions may differ from that which prevails in the absence of unions (endogenous) As we noted previously, the presence of unions may also influence wages in the nonunion sector a. To illustrate, consider the following two-sector general equilibrium model Professor Schuetze - Econ 471 3



Problems/Difficulties Notice that the estimated union-nonunion wage differential is bigger than the true union impact Other possibilities b. We need to distinguish between those that are willing to pay higher wages and those that are not Some may face very little threat of unionization. Professor Schuetze - Econ 471 5







Problems/Difficulties

- Selection Bias
- What we want to do is compare differences in wages controlling for other wage determining differences

Examples:

- Unionized sector may utilize skilled workers more than the nonunion sector
- Unionized firms may be larger (have more capital) than non-unionized firms
- Some of these differences can be controlled for in a regression setting because they are observable

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9

Problems/Difficulties

- The problem arises when the unobserved factors that influence wages also influence selection into the union sector
- The estimated effect will be biased

Example:

- This is likely to be the case if unions are able to create queues of workers wanting higher wages
- The solution is to use panel data

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Empirical Results

- Estimates of the union-nonunion differential vary depending on statistical method and data used
- Early studies, primarily using US aggregate data estimate the union-nonunion differential to be around 10-15 percent (Lewis 1963)
- **(**
- Because these studies are based on aggregate data they are not very reliable
- Studies based on individuals or individual firms estimate the impact to be greater than 10-15 percent

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11

Empirical Results

- However, it has been argued that such studies may overstate the true union wage impact
- Recent studies attempt to deal with these issues
- Account for the joint determination of union status and the wage impact
- These studies find the impacts to be smaller
- Longitudinal studies have been used to control for person-specific characteristics (not observed)

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US longitudinal s wage differential

US longitudinal studies find the union-nonunion wage differential to be around 10 percent

 Others have suggested that the lower estimates may result from mismeasurement of union status in longitudinal data

Variation in Impacts:

1. The differential tends to be higher the higher the proportion of the industry/occupation organized

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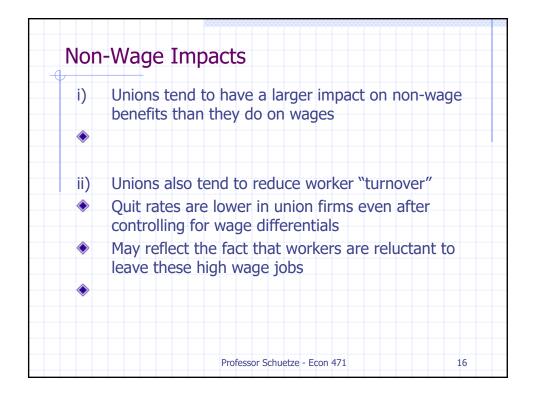
13

Empirical Results

- 2. The impact is larger the larger the firm
- This is even more true in the non-union sector
- Therefore, the wage differential declines with firm size
- **(**
- 3. The union impact is higher for blue collar than white collar workers
- In general, the impact is larger at low skill levels and smaller at high skill levels

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Emp	oirical Results
4.	In Canada, it appears that women benefit more, in terms of wages, than men from unionization
•	
5.	The union impact tends to be smaller in the public sector than in the private sector
6.	The union wage impact varies countercyclically
•	Widening in recessions and narrowing in booms
•	
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Non-Wage Impacts

- iii) Empirical studies find that unions may either increase or decrease worker productivity
- The overall impact depends on the magnitude of various offsetting factors
- ♦ It is important to distinguish between
- a.
- b.

Union firms will respond to an increase in the wage by:

- 1.
- 2.
- 3.

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17

Impacts on Productivity

- Thus, we might expect the union wage impact to raise productivity
- To get the underlying impact of unions, therefore, we must control for capital, worker characteristics and job characteristics
- Through work stoppage and featherbedding we might expect unions to have a negative impact on productivity
- On the other hand, reduced turnover and improved worker morale may increase productivity among union workers
- Estimates of the impacts of unions have been both positive and negative

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