



Job search & frictional unemployment

- frictional unemployment: caused by the time it takes workers to search for a job
- occurs even when wages are flexible and there are enough jobs to go around
- occurs because
 - workers have different abilities, preferences
 - jobs have different skill requirements
 - geographic mobility of workers not instantaneous
 - flow of information about vacancies and job candidates is imperfect

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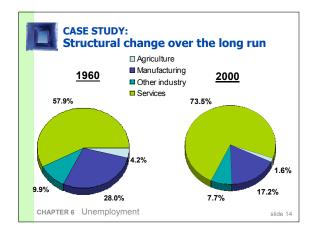


Sectoral shifts

- def: Changes in the composition of demand among industries or regions.
- example: Technological change more jobs repairing computers, fewer jobs repairing typewriters
- example: A new international trade agreement labor demand increases in export sectors, decreases in import-competing sectors
- Result: frictional unemployment

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More examples of sectoral shifts

- Late 1800s: decline of agriculture, increase in manufacturing
- Late 1900s: relative decline of manufacturing, increase in service sector
- 1970s: energy crisis caused a shift in demand away from gas guzzlers toward smaller cars.

In our dynamic economy, smaller sectoral shifts occur frequently, contributing to frictional unemployment.

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Unemployment insurance (UI)

- UI pays part of a worker's former wages for a limited time after losing his/her job.
- UI increases search unemployment, because it reduces
 - the opportunity cost of being unemployed
 - the urgency of finding work
 - f
- Studies: The longer a worker is eligible for UI, the longer the duration of the average spell of unemployment.

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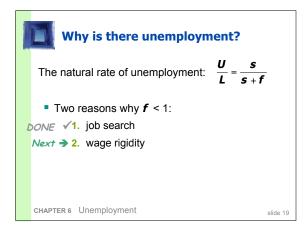
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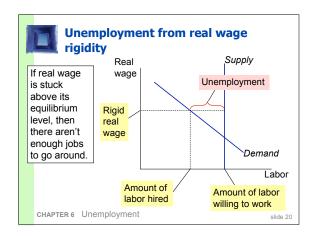


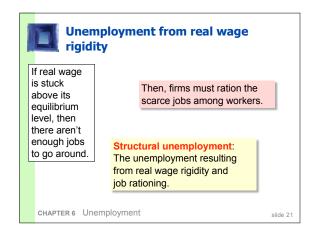
Benefits of UI

By allowing workers more time to search, UI may lead to better matches between jobs and workers, which would lead to greater productivity and higher incomes.

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1. The minimum wage

- The min. wage may exceed the equilibrium wage of unskilled workers, especially teenagers.
- But, the min. wage cannot explain the majority of the natural rate of unemployment, as most workers' wages are well above the min. wage.

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2. Labor unions

- Unions exercise monopoly power to secure higher wages for their members.
- When the union wage exceeds the equilibrium wage, unemployment results.
- Insiders: Employed union workers whose interest is to keep wages high.
- Outsiders: Unemployed non-union workers who prefer equilibrium wages, so there would be enough jobs for them.

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Union membership and wage ratios by industry, 200			
industry	# employed (1000s)	U % of total	wage ratio
Private sector (total)	105,508	8.5%	122.3
Government (total)	20,381	40.5	121.7
Construction	8,053	13.8	156.9
Mining	600	9.5	113.7
Manufacturing	15,518	13.7	107.8
Retail trade	14,973	5.8	114.0
Transportation	4,379	24.4	129.2
Finance, insurance	6,304	2.1	90.7
Professional services	10,951	3.1	90.6
Education	3,312	15.4	112.7
Health care	14,045	8	115.1
wage ratio = 100×(union wage)/(nonunion wage)			slide

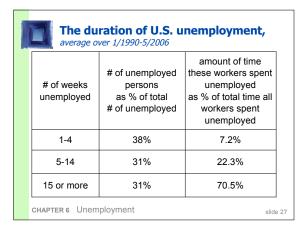


3. Efficiency wage theory

- Theories in which higher wages increase worker productivity by:
 - attracting higher quality job applicants
 - increasing worker effort, reducing "shirking"
 - reducing turnover, which is costly to firms
 - improving health of workers (in developing countries)
- Firms willingly pay above-equilibrium wages to raise productivity.
- Result: structural unemployment.

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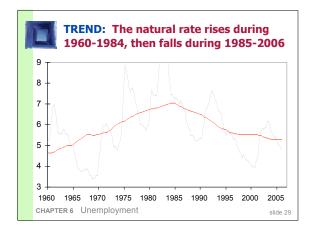


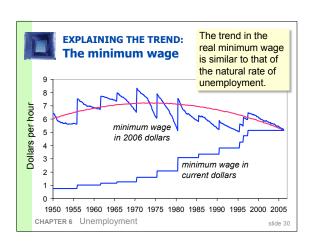


The duration of unemployment

- The data
 - More spells of unemployment are short-term than medium-term or long-term.
 - Yet, most of the total time spent unemployed is attributable to the long-term unemployed.
- This long-term unemployment is probably structural and/or due to sectoral shifts among vastly different industries.
- Knowing this is important because it can help us craft policies that are more likely to work.

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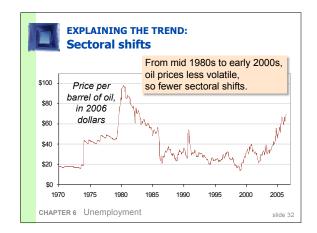






Since the early 1980s, the natural rate of unemployment and union membership have both fallen.

But, from 1950s to about 1980. the natural rate rose while union membership fell.





EXPLAINING THE TREND: Demographics

1970s:

The Baby Boomers were young. Young workers change jobs more frequently (high value of s).

Late 1980s through today: Baby Boomers aged. Middle-aged workers change jobs less often (low s).

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Chapter Summary

- 1. The natural rate of unemployment
 - the long-run average or "steady state" rate of unemployment
 - depends on the rates of job separation and job finding
- 2. Frictional unemployment
 - due to the time it takes to match workers with jobs
 - may be increased by unemployment insurance

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Chapter Summary

- 3. Structural unemployment
 - results from wage rigidity: the real wage remains above the equilibrium level
 - caused by: minimum wage, unions, efficiency wages
- 4. Duration of unemployment
 - most spells are short term
 - but most weeks of unemployment are attributable to a small number of long-term unemployed persons

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Chapter Summary

- 5. Behavior of the natural rate in the U.S.
 - rose from 1960 to early 1980s, then fell
 - possible explanations: trends in real minimum wage, union membership, prevalence of sectoral shifts, and aging of the Baby Boomers

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Question for discussion:

- Use the material we've just covered to come up with a policy or policies to try to reduce the natural rate of unemployment.
- Note whether your policy targets frictional or structural unemployment.

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