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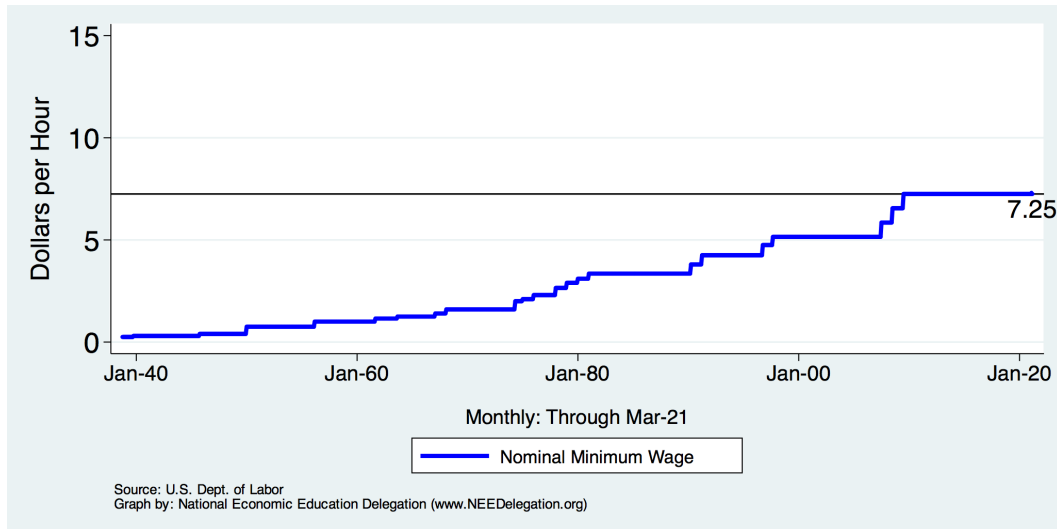


## What Is The Federal Minimum Wage?

- **The minimum wage is an example of a price control and sets a wage floor.**
  - It is unlawful for businesses in covered industries to pay a wage below the minimum.
- **The Federal minimum wage is currently \$7.25.**
- **Minimum wage of \$2.13 for tipped workers with the expectation that wages plus tips total no less than \$7.25 per hour. The employer must pay the difference if total income does not add up to \$7.25 per hour.**

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## Nominal Minimum Wage Over Time



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## Correcting Variables for Inflation: Comparing Dollar Figures from Different Times

- Inflation makes it harder to compare dollar amounts from different times.
- **Example: the minimum wage**
  - \$1.15 in December 1964
  - \$7.25 in August 2022
- **Did min wage have more purchasing power in December 1964 or August 2022?**
- To compare, use CPI to convert 1964 figure into “today’s dollars”...
- **CPI is Consumer Price Index: a measure of the overall cost of the goods and service bought by a typical consumer**



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## Correcting Variables for Inflation: Comparing Dollar Figures from Different Times

$$\text{Amount in today's dollars} = \text{Amount in year } T \text{ dollars} \times \frac{\text{CPI today}}{\text{CPI in year } T}$$

CPI is Consumer Price Index: a measure of the overall cost of the goods and service bought by a typical consumer

- **In our example,**
  - “year *T*” is December 1964, “today” August 2022
  - Min wage was \$1.15 in year *T*
  - CPI = 31.3 in year *T*, CPI = 295.6 today

*The minimum wage in 1964 was \$9.44 in today's (2022) dollars.*

$$\$9.44 = \$1.15 \times \frac{295.6}{31.3}$$



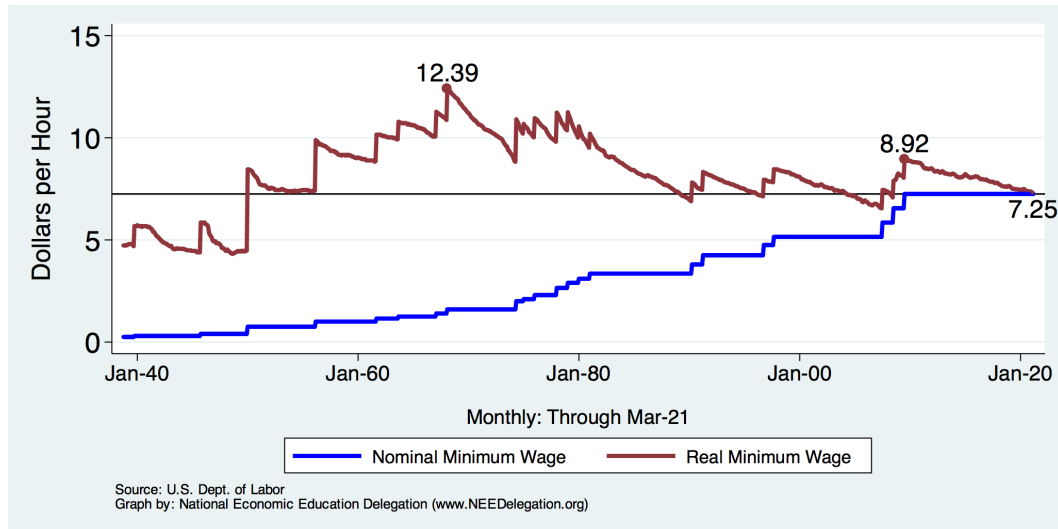
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## Correcting Variables for Inflation: Comparing Dollar Figures from Different Times

- Researchers, business analysts, and policymakers often use this technique to convert a time series of current-dollar (nominal) figures into constant-dollar (real) figures.
- They can then see how a variable has changed over time after correcting for inflation.
- Example: the minimum wage, from 1964 to 2022...

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## History of the Federal Minimum Wage



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## From Hourly to Approx. Annual Minimum Wage

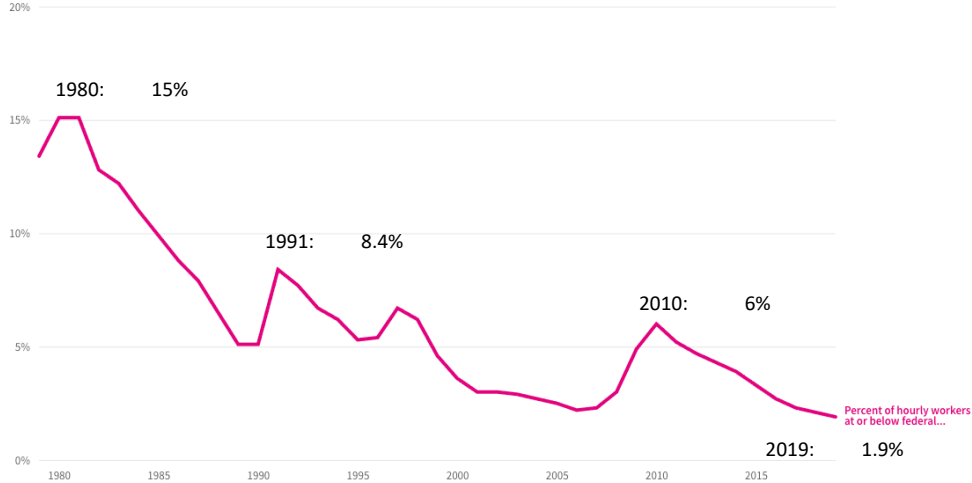
- Real Annual Minimum Wage in 1968 was
  - $\$12.39 \times 40 \text{ hours per week} \times 52 \text{ weeks} = \$20,771$
- Real Annual Minimum Wage today is
  - $\$7.25 \times 40 \text{ hours per week} \times 52 \text{ weeks} = \$15,080$

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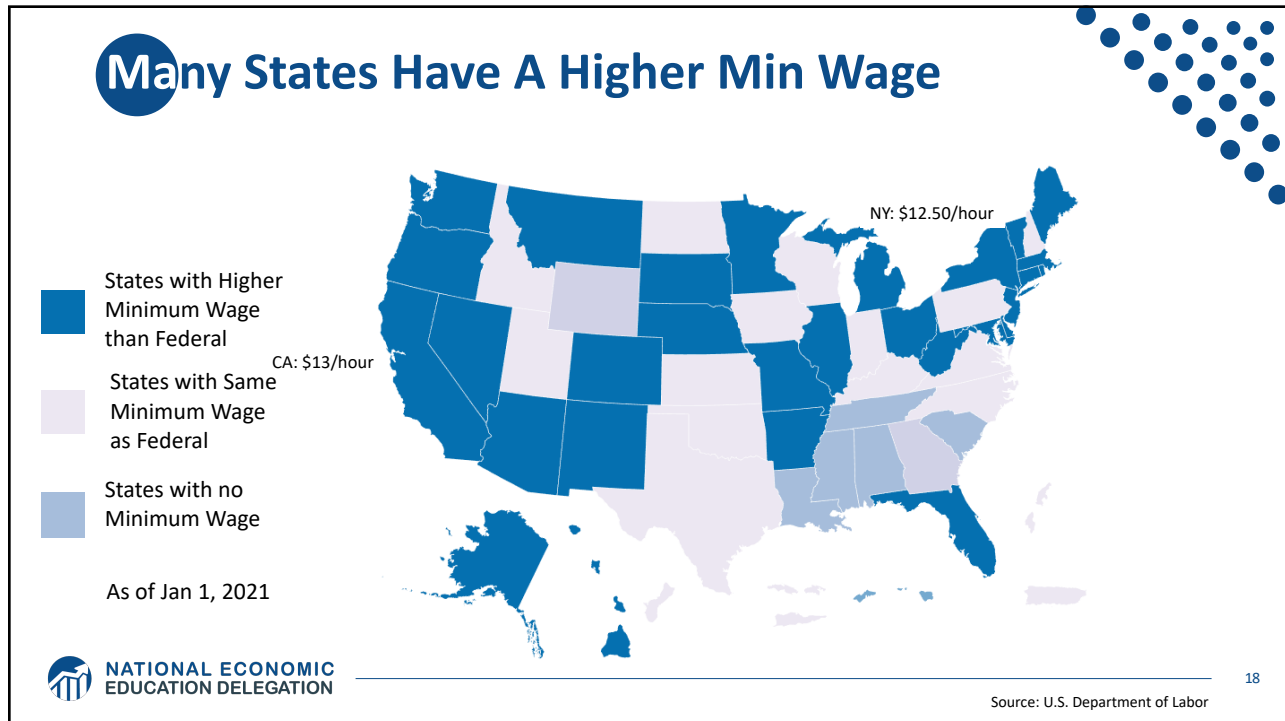
## How Many are Paid At or Below Min. Wage?

The share of hourly workers at or below federal minimum wage peaked in the early 1980s.

Percent of hourly workers at or below federal minimum wage



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## Example: Minimum Wage in Florida

- Florida’s minimum wage rate is currently is \$10.00.
- On November 3, 2020, over 60 percent of Floridian voters approved Amendment 2, which increases the minimum wage and amends Florida’s Constitution.
- Employers must use the following hourly minimum wage schedule for non-tipped employees:
  - Through December 31, 2020 – \$8.56
  - January 1, 2021 – \$8.65
  - September 30, 2021 – \$10.00
  - September 30, 2022 – \$11.00
  - September 30, 2023 – \$12.00
  - September 30, 2024 – \$13.00
  - September 30, 2025 – \$14.00
  - September 30, 2026 – \$15.00

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## Important Questions:

- What is the purpose of a minimum wage?
- What is the purpose of a FEDERAL minimum wage?
- Why do we have one?
- What are the implications of having one?
- Should we have one?
- How high should it be?



## Minimum Wage: Purpose

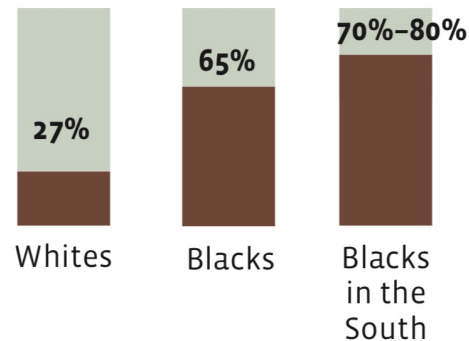
- **The purpose of minimum wages is to protect workers against unduly low pay. They help ensure a just and equitable share of the fruits of progress to all, and a minimum living wage to all who are employed and in need of such protection.**
- **Minimum wages can also be one element of a policy to overcome poverty and reduce inequality, including those between men and women, by promoting the right to equal remuneration for work of equal value.**



## Origin Story: The New Deal

- Minimum wage
- Social Security
- Unemployment insurance

### INELIGIBLE FOR SOCIAL SECURITY IN 1935



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## Fair Labor Standards Act of 1938

- Minimum wage: \$0.25 – raised 22 times
- “Covered” only about 23% of workers at the time.
  - The law did not apply universally.
  - 11 million out of 48 million gainful workers were covered.
  - The provisions of the Act affect employees who are engaged in (interstate) commerce or the production of goods for (interstate) commerce.
  - Not covered were:
    - Farm labor, retail trade, domestic and personal service, governmental service, or the self-employed.

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## Minimum Wages

- **1960s – great equalizer - MW increased in real terms 37% (8.9 to 12.24)**
  - The 1966 Fair Labor Standards Act extended federal minimum wage coverage to agriculture, restaurants, nursing homes, and other services which were previously uncovered and where nearly a third of black workers were employed.
- **Since 1968 – has fallen 41% (12.18 to 7.25)**
  - Or, in 1968, was 69% higher than it is today.
  - Exacerbating the Black-White wage gap.



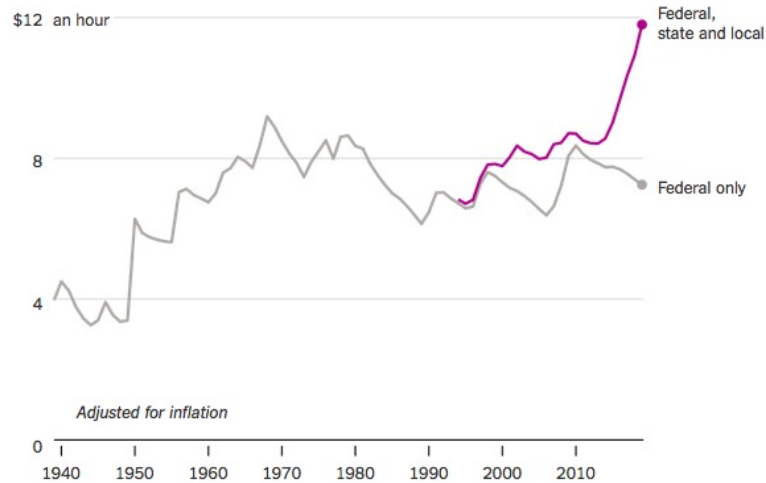
## Should There be A Federal Minimum Wage?

- **Abolish a FEDERAL minimum wage?**
  - **Argument in favor:**
    - Cost of living differs across states.
  - **Arguments against:**
    - Could result in very different living standards across states.
    - Racial differences are a particular concern.
- **30% of labor force will already be under a \$15 min wage by 2025.**
  - California, Connecticut, Illinois, Maryland, Massachusetts, New Jersey, New York



## States and Local Gov'ts are Raising Min Wages

The average job at the federal, state or local minimum wage pays almost \$12 an hour.



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## Common View of Minimum Wage

- Wages go up.
- Labor costs go up.
- Employment falls and Unemployment increases.
- Bottom line: are the increased wages worth the drop in employment?
- This is a very SIMPLE view of the minimum wage.
  - Economics is complicated.



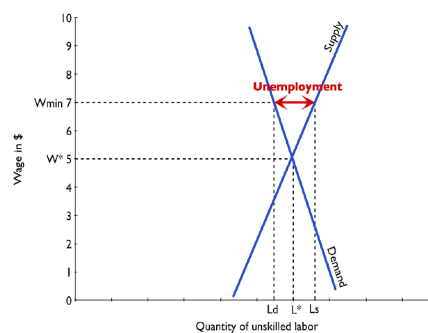
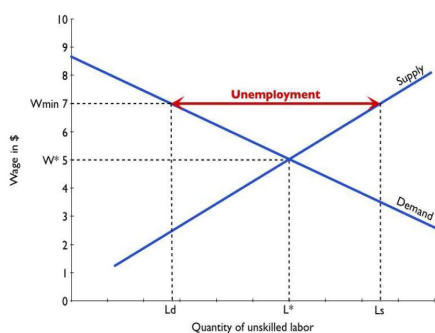
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## How Much Job Loss Might Result?

- **Very Elastic Supply and Demand**
  - Quantity changes a lot with price.
- **Very Inelastic Supply and Demand**
  - Quantity changes little with price.



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## Empirical Evidence

- The empirical research on the effects of min wage on employment is difficult to do.
- Over the past two decades hundreds of papers have been published, with different results.
- A **meta-analysis** performed by Belman and Wolfson (2010) finds that a 10 percent increase in the minimum wage is associated with a reduction in employment or hours of employment close to zero.
- Neumark and Shirely (2021) looked at about 70 studies with unconventional methods but find that majority of studies report negative employment effects. However, the data supports relatively inelastic labor demand curve where a 10 percent increase in the minimum wage is associated with a reduction in employment around  $-1.45\%$ .



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## Market Structure

- **The previous graphs and analysis using supply and demand assumes perfectly competitive labor market.**
  - Numerous employers
  - Numerous workers
  - Each behaving as price taker and with no market power
- **Labor markets may be monopsonistic**
  - Monopsony is when there is only one buyer or a single buyer that dominates the market.
  - Similar to monopoly, where there is only one seller.
  - Both monopoly and monopsony are an example of a market failure and provide inefficient market allocations.



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## Monopsony in the Labor Market and MW

- **Examples of Monopsony in the Labor Market:**
  - Coal mine owner in town where coal mining is the primary source of employment.
  - The government in the employment of civil servants, nurses, police and army officers.
  - Walmart, Amazon, Uber
  - Universities
  - Hospitals
  - Even if a firm is not a pure monopsony, it may have a degree of monopsony power, due to geographical and occupational immobility, which make it difficult for workers to switch jobs and find alternative employment.
- **A higher, well chosen minimum wage can raise employment in a labor market where firms enjoy monopsony power.**



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## Simple Views are Incomplete

- **A minimum wage need not reduce employment.**
- **An increase in the minimum wage can hurt its intended beneficiaries - even with no employment effect.**
- **This incompleteness comes from potential firm responses:**
  - Output prices
  - Nonwage compensation
  - Other job attributes:
    - Effort requirements, safety measures, quality of working environment.
- **Because business settings vary, the responses across these areas will differ across industries and between firms within an industry.**
  - No single answer is possible.



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## Responses by Employer

- **Reduce employment of low wage workers.**
  - Produce less.
  - Reduce dependence on low skilled labor
    - Using more capital or more of labor with higher skills.
- **Raise prices to consumers.**
  - Offsets the increase in labor costs, blunting the drop in employment.
  - However, it also erodes the income gains of min wage increase.
- **Reduce nonwage compensation.**
  - Health care, paid leave, etc.
- **Alter other job attributes.**
  - Effort requirements, safety, general quality of the work environment, flexibility of schedules.
- **Offshore production.**
- **Experience lower profits.**
- **Close down.**



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## Responses by Employee

- **Increase their supply of labor.**
  - Growing the labor force.
- **Value the job more highly.**
  - Increased effort.
  - Reduced job search.
- **Use the increased income to:**
  - Better the lives of their family.
  - Invest in training and education.



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## Arguments FOR a Minimum Wage

- **Basic:**
  - It **raises the standard of living** for minimum wage workers.
    - In 2019, CBO projected increases for 17 million people with an increase to \$15/hour by 2025.
- **Secondary - Less consensus:**
  - **Improved employee morale.**
    - Less turnover, greater productivity.
  - **Economic growth potential.**
    - Increased purchasing power among low wage workers may increase aggregate demand.
  - **Reduce gender disparities in wages.**
    - A greater proportion of female workers are paid the minimum wage.
    - Proportions across race and ethnicity do not differ significantly.



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## Arguments AGAINST a Minimum Wage Hike

- **Basic:**

- Increased labor costs **lowers employment** among low wage workers.
  - Particular effect on:
    - Small businesses.
    - Labor intensive industries.

- **Secondary:**

- Increases the cost of living – inflation.
  - Producers may raise prices to offset the increase in labor costs.
- May change the nature of the workplace environment.



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Source: <https://www.investopedia.com/articles/markets-economy/090516/what-are-pros-and-cons-raising-minimum-wage.asp>

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## Who Wins? No Clear Answer

- **Minimum wage is more likely to be beneficial at lower wages and with smallish changes.**
- **The spillover effects of an increase in the minimum wage are not well understood:**
  - Increased effort and employee retention.
  - Increase in prices/inflation.
  - Reduction of nonmonetary compensation.
  - Less attractive work environment.
    - E.g., more variable work schedules, fewer safety measures.
- **“Conservative/Liberal” divide in the profession**
  - Conservatives – emphasize job losses
  - Liberals – minimize job losses
  - Both are incomplete.....



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## Consensus of Employment Effects?

- **Short answer: No!**
- **Longer answer:**
  - Trend in the literature is toward finding progressively smaller **NEGATIVE** employment effects.
  - Most analyses indicate negative employment effects.
  - Some confirmation that the negative implications for employment, or hours, translates into negative implications for compensation.



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## Raise the Wage Act 2021 (RWA)

- **Raise the federal minimum wage from \$7.25 to \$15 by 2025;**
- **Index the federal minimum wage to median wage growth;**
- **Eliminate multiple minimum wages:**
  - End tipped workers lower minimum wage;
  - End teen worker lower minimum wage;
  - End subminimum wage certificates for workers with disabilities.



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## Scheduled Min Wage Increases Under RWA

Year	Minimum Wage	Tipped Wage	Youth Wage	14(c) Wage
Current	\$7.25	\$2.13	\$4.25	Subminimum Wages
2021	\$9.50	\$4.95	\$6.00	\$5.00
2022	\$11.00	\$6.95	\$7.75	\$7.50
2023	\$12.50	\$8.95	\$9.50	\$10.00
2024	\$14.00	\$10.95	\$11.25	\$12.50
2025	\$15.00	\$12.95	\$13.00	\$15.00
2026	Index to Median Wages	\$14.95	\$14.75	Equal to Standard Minimum Wage
2027		Equal to Standard Minimum Wage	Equal to Standard Minimum Wage	

## Economic Consensus on \$15/hour? NO

- **Increases are well outside the range of previous experience.**
- **Ambiguous impact on affected worker's living standards:**
  - Negative: unemployment, lower on the job amenities, inflation
  - Positive: higher wages
- **Likely NOT an improvement for business owners.**
  - Unless it induces implausibly high levels of increased worker effort.
- **Implications for broader society are unclear.**
  - But the minimum wage is implemented as an efficiency tradeoff for equity.
  - It is a policy that reflects society's values regarding the welfare of workers.

## CBO Analysis

### • Effects of increase to \$15 – summary:

- **Increased wages** for 27 million people in 2025.
  - 17 million who would be below \$15/hour.
  - 10 million who would have earned just above \$15/hour.
  - Increased labor compensation of \$333 billion between 2021 and 2031.
    - \$509B in increased pay.
    - \$175B less because of job losses.
  
- Put 1.4 million **out of work** (0.9% of workers).
  - Primarily young, less educated workers.
  
- Lift 900,000 out of **poverty**.
  - 2019: 34 million people lived in poverty.

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## What to make of the CBO results?

### • Primary Results

- Increased wages for 27 million people.
- 1.4 million fewer low wage jobs.
- 900,000 lifted out of poverty.

### • Reasonable people can, and do, disagree about whether the tradeoff is worth it.

### • Important question: Is there a better policy instrument?

- Up for consideration: expanding the Earned Income Tax Credit.
  - Also raises the incomes of low wage workers but puts taxpayers on the hook instead of businesses.
    - *Again, reasonable people can and do disagree about whether this is better.*
- Up for consideration: Can trade unions do a better job in wage negotiation?

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## The Impact on Poverty and Wage Inequality

- MW can help “working poor”.
- MW is not great in decreasing poverty. A large number of individuals that are poor (i.e., children or disabled) do not work. In this way, no matter how high the minimum wage is, if you do not work, you do not get any benefits from it.
- Many who earn MW also do not live in poor households (i.e., teenagers in wealthier households).
- There is evidence that increase in MW can decrease wage inequality



## Other Options?

- Why a federal minimum and not simply a state or local?
- Why not rely more on the use of collective bargaining agreements and unions
- **Earned Income Tax Credit (EITC)**: provides an income subsidy (in the form of a tax credit) to low-income working families. The tax credit benefits are phased out slowly so that workers are not penalized as they earn more income.



## EITC superior on many grounds

- **MW**
  - May costs some jobs (or hours worked).
  - Does not target benefits on the poor.
  - Does not redistribute from the richest.
- **EITC**
  - Targets the poor effectively.
  - Encourages work.
    - Better long-term effects.
  - Financed by taxes (hence can decrease inequality).
  - We can make it more generous.

## Summary

- **The minimum wage has been around since 1938.**
  - The comprehensiveness of its coverage has steadily increased.
- **The Federal minimum wage is currently \$7.25/hour.**
  - It's level has fluctuated, both up and down in inflation adjusted terms.
    - It is currently 41% below it's peak in the 1960s.
- **There are perfectly valid arguments for and against it.**
  - Economics is not currently able to provide a definitive answer.
  - Depends on the tradeoff between higher wages and employment.
- **The textbook exposition (price up -> quantity down) is a gross simplification.**
  - The reality of its evaluation is much more complicated.
- **The FEDERAL minimum wage is waning in importance.**
  - States take up the mantel.
- **Economists do not have a clear position or anything like consensus on the issue.**
  - But the research is trending in the direction toward benefits (improved living standards) and away from direct costs (unemployment).

## Most Important Point: It's Complicated

- Minimum wage helps some (many?) workers but has negative consequences.
- Little or no evidence of net benefits for low-income families.
- There are winners and losers from a higher minimum wage.
- Policymakers and the public then have to decide if enough of the gains are going to those they want to help, to offset the losses for others.
- There are other policies that likely work better.



Thank you!

## Any Questions?

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