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## Creating A Dial Indicator



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## Objectives

At the end of this presentation, you will be able to:

- Create your own dial.
- Extract information from the indicator's source links and input the value into your dial.



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## *DIY Creating dials and speedometers*

# Search Google

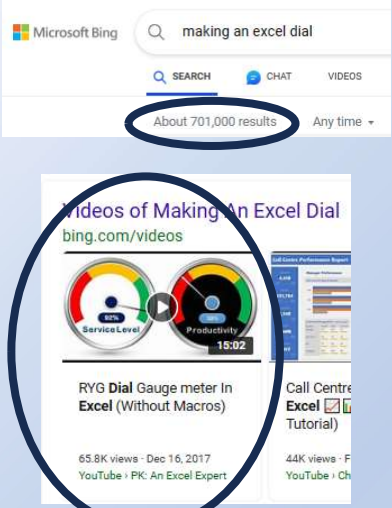
**“making an excel dial”**  
**“making an excel speedometer”**



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## Creating The Dial



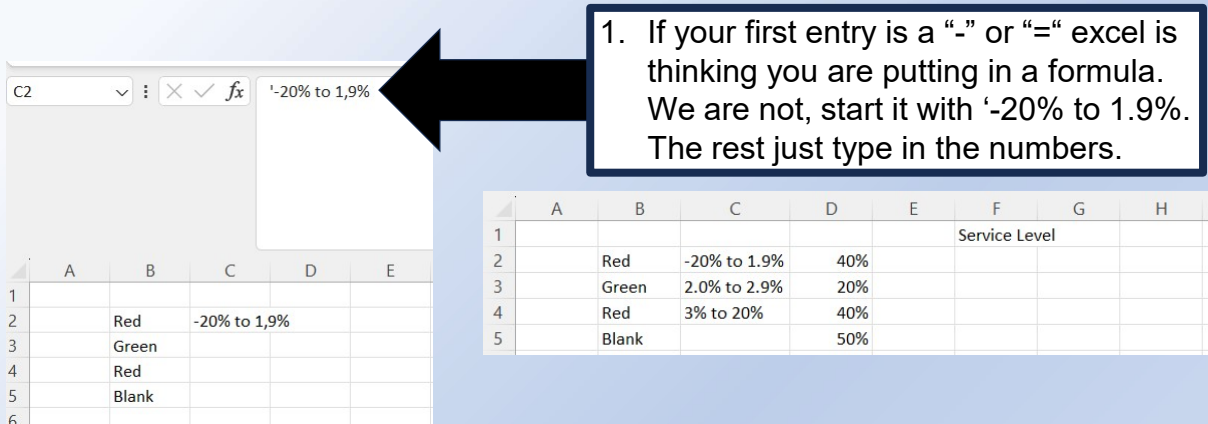
The screenshot shows a Bing search for "making an excel dial". The search bar contains the text "making an excel dial" and the search button is highlighted. Below the search bar, it says "About 701,000 results" and "Any time". A video thumbnail is visible with the title "RYG Dial Gauge meter In Excel (Without Macros)" and a duration of "15:02".

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## Creating The Dial

1. If your first entry is a "-" or "=" excel is thinking you are putting in a formula. We are not, start it with '-20% to 1,9%'. The rest just type in the numbers.



The image shows an Excel spreadsheet with a table and a formula bar. The formula bar for cell C2 contains the text "'-20% to 1,9%". A black arrow points from the text box above to the formula bar. The table below has columns A through H and rows 1 through 5.

	A	B	C	D	E	F	G	H
1						Service Level		
2		Red	-20% to 1,9%	40%				
3		Green	2.0% to 2.9%	20%				
4		Red	3% to 20%	40%				
5		Blank		50%				

6

**7**

4. Select "Insert"

5. Select the drop-down menu from the pie chart icon

2. Select this and then hold the Ctrl button down then...

3. Keeping the Ctrl button down select this, and now release the Ctrl button.

6. Select the Doughnut icon

	A	C	E	F	G
1			Service Level		
2	Red	-20% to 1.9%	40%		
3	Yellow	2.0% to 2.9%	20%		
4	Red	3% to 20%	40%		
5	Blank		50%		
6					
7					
8					

7

**8**

8. Select the title then hit the delete button

7. You should get this, notice your legend; Red, Green, Red and Blank.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1				Service Level												
2	Red		-20% to 1.9%	40%												
3	Green															
4	Red															
5	Blank															
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																

8

9

9. Select the orange, then right-mouse-click and the drop-down menu will appear

10. Select Format Data Series

11. Move the bar until it reaches 240

Service Level	Percentage
Red	20%
Green	20%
Red	40%
Blank	20%

9

10

12. Double click the Blue

13. Select the bucket

14. Select "Solid Fill"

15. Change the color to red

Service Level	Percentage
Red	20%
Green	20%
Red	40%
Blank	20%

10

16. Double click the orange

17. Select the bucket

18. Select "Solid Fill"

19. Change the color to green

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1					Service Level													
2		Red	-20% to 1,9%	40%														
3		Green	2.0% to 2.9%	20%														
4		Red	3% to 20%	40%														
5		Blank		50%														

11

20. Double click the gray

21. Select the bucket

22. Select "Solid Fill"

23. Change the color to red

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1					Service Level													
2		Red	-20% to 1,9%	40%														
3		Green	2.0% to 2.9%	20%														
4		Red	3% to 20%	40%														
5		Blank		50%														

12

**24. Double click the yellow**

**25. Select the bucket**

**26. Select "No Fill"**

Service Level			
Red	-20% to 1,9%	40%	
Green	2.0% to 2.9%	20%	
Red	3% to 20%	40%	
Blank		50%	

13

**27. Select legend and delete**

**28. Type in the following**

PERCENTR... | : | X | ✓ | fx | =150%-SUM(G1:H1)

Service Level			
Red	-20% to 1,9%	40%	
Green	2.0% to 2.9%	20%	
Red	3% to 20%	40%	
Blank		50%	

14

29. Click and make sure it says "pilot area"

30. Select "select data"

	A	B	C	D	E	F	G	H	I	J	K	L	M
1					Service Level	SL%	65%	1%	84.00%				
2		Red	-20% to 1,9%	40%									
3		Green	2.0% to 2.9%	20%									
4		Red	3% to 20%	40%									
5		Blank		50%									

15

31. Select "add"

Select Data Source

Chart data range: =Sheet1!\$B\$2:\$B\$5,Sheet1!\$D\$2:\$D\$5

Legend Entries (Series)

- Series1

Horizontal (Category) Axis Labels

- Red
- Green
- Red
- Blank

16



17

	A	B	C	D	E	F	G	H	I	J	K	L	M
1					Service Level	SL%	65%	1%		84.00%			
2		Red	-20% to 1,9%	40%									
3		Green	2.0% to 2.9%	20%									
4		Red	3% to 20%	40%									
5		Blank		50%									

33. Select "SL%"

32. Select the box

35. Select the first box and hold the button down and slide the mouse over the remaining two boxes

34. Select the box and type in =

36. Select OK

17

18

Screen should show like this

37. Select OK

18

38. Select the blue, then right-mouse-click

39. Select "Change Series Chart Type"

	A	B	C	D	E	F	G	H	I	J	K	L	M
1					Service Level	SL%	65%	1%					
2		Red	-20% to 1,9%	40%									
3		Green	2.0% to 2.9%	20%									
4		Red	3% to 20%	40%									
5		Blank		50%									

19

40. Select the drop-down box and select pie

41. Check box

	A	B	C	D	E	F
1					Service Level	SL%
2		Red	-20% to 1,9%	40%		
3		Green	2.0% to 2.9%	20%		
4		Red	3% to 20%	40%		
5		Blank		50%		

20

42. Double click

43. Select

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1					Service Level	SL%	65%	1%	84.00%						
2		Red	-20% to 1,9%	40%											
3		Green	2.0% to 2.9%	20%											
4		Red	3% to 20%	40%											
5		Blank		50%											

21

45. Double click

44. Select "No Fill"

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1					Service Level	SL%	65%	1%	84.00%						
2		Red	-20% to 1,9%	40%											
3		Green	2.0% to 2.9%	20%											
4		Red	3% to 20%	40%											
5		Blank		50%											

22

45. Select

46. Select "No Fill"

47. Select needle

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1					Service Level	SL%	65%	1%	84.00%						
2		Red	-20% to 1.9%	40%											
3		Green	2.0% to 2.9%	20%											
4		Red	3% to 20%	40%											
5		Blank		50%											

23

47. S need

24

48. Select

49. Select "Solid Fill"

50. Select Black

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1					Service Level	SL%	65%	1%	84.00%						
2		Red	-20% to 1,9%	40%											
3		Green	2.0% to 2.9%	20%											
4		Red	3% to 20%	40%											
5		Blank		50%											

25

51. Select this blank area, then right-mouse-click and the drop-down menu will appear

52. Select "format Data Series"

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1					Service Level	SL%	65%	1%	84.00%							
2		Red	-20% to 1,9%	40%												
3		Green	2.0% to 2.9%	20%												
4		Red	3% to 20%	40%												

26

54. Select green

53. Move the bar until it reaches 240

Format Data Series

Series Options

Angle of first slice: 240°

Doughnut Explosion: 0%

Doughnut Hole Size: 75%

27

56. Select "Shape Outline"

57. Select "No Outline"

55. Select format

Format

Format Data Series

Series Options

Angle of first slice: 240°

Doughnut Explosion: 0%

Doughnut Hole Size: 75%

28

	F	G	H	I
Service Level	51%	65%	1%	84.00%

**58. Select the dial**

**Format Data Series**

- Series Options
  - Plot Series On
    - Primary Axis
    - Secondary Axis
  - Angle of first slice: 240°
  - Pie Explosion: 0%

29

**60. Select "Shape Outline"**

**61. Select "No Outline"**

**59. Select format**

**Format**

- Shape Fill
- Shape Outline
  - Automatic
  - Theme Colors
  - Standard Colors
  - No Outline
  - More No Outline...
  - Weight
  - Dashes
  - Arrows

30

62. Select "No Outline"

63. Select "Format Data Series"

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1					Service Level	SL%	65%	1%	84.00%							
2		Red	-20% to 1,9%	40%												
3		Green	2.0% to 2.9%	20%												
4		Red	3% to 20%	40%												
5		Blank		50%												

Format Data Series

Series Options

Plot Series On

Primary Axis

Secondary Axis

Angle of first slice: 240°

Pie Explosion: 0%

31

64. Select "Secondary Axis"

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1					Service Level	SL%	65%	1%	84.00%							
2		Red	-20% to 1,9%	40%												
3		Green	2.0% to 2.9%	20%												
4		Red	3% to 20%	40%												
5		Blank		50%												

Format Data Series

Series Options

Plot Series On

Primary Axis

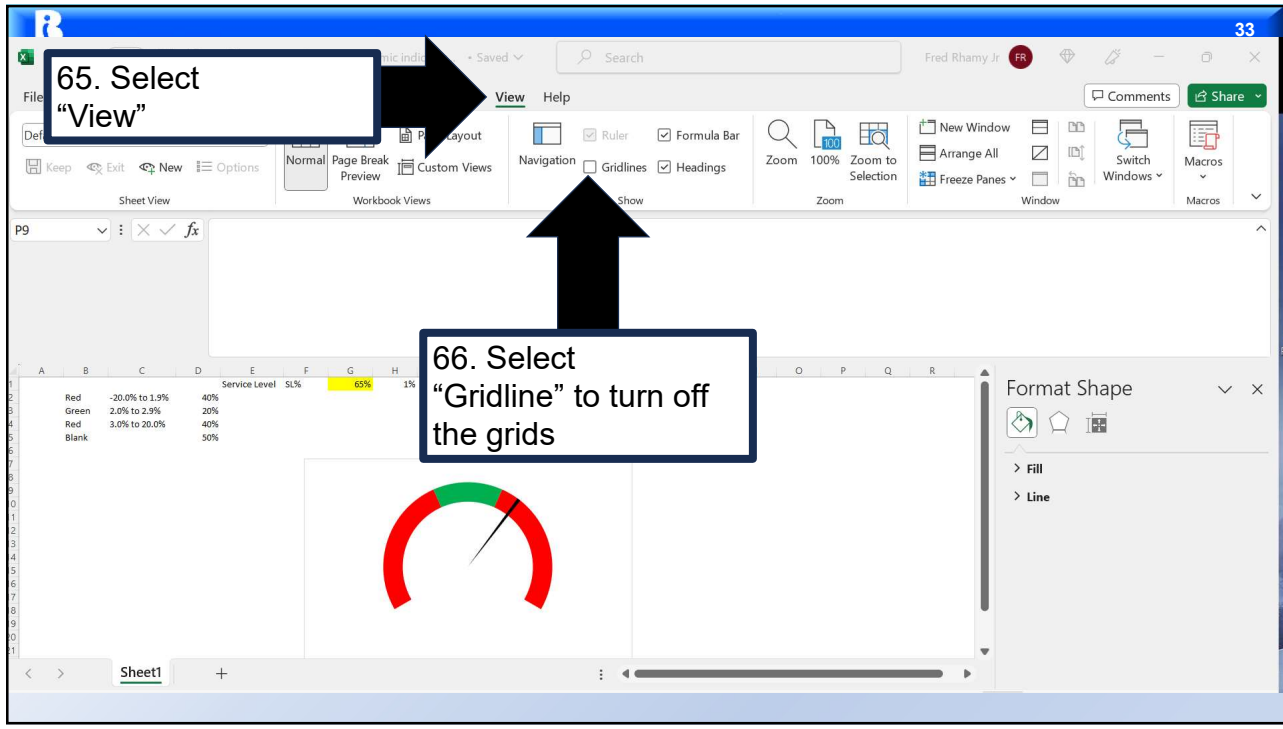
Secondary Axis

Angle of first slice: 240°

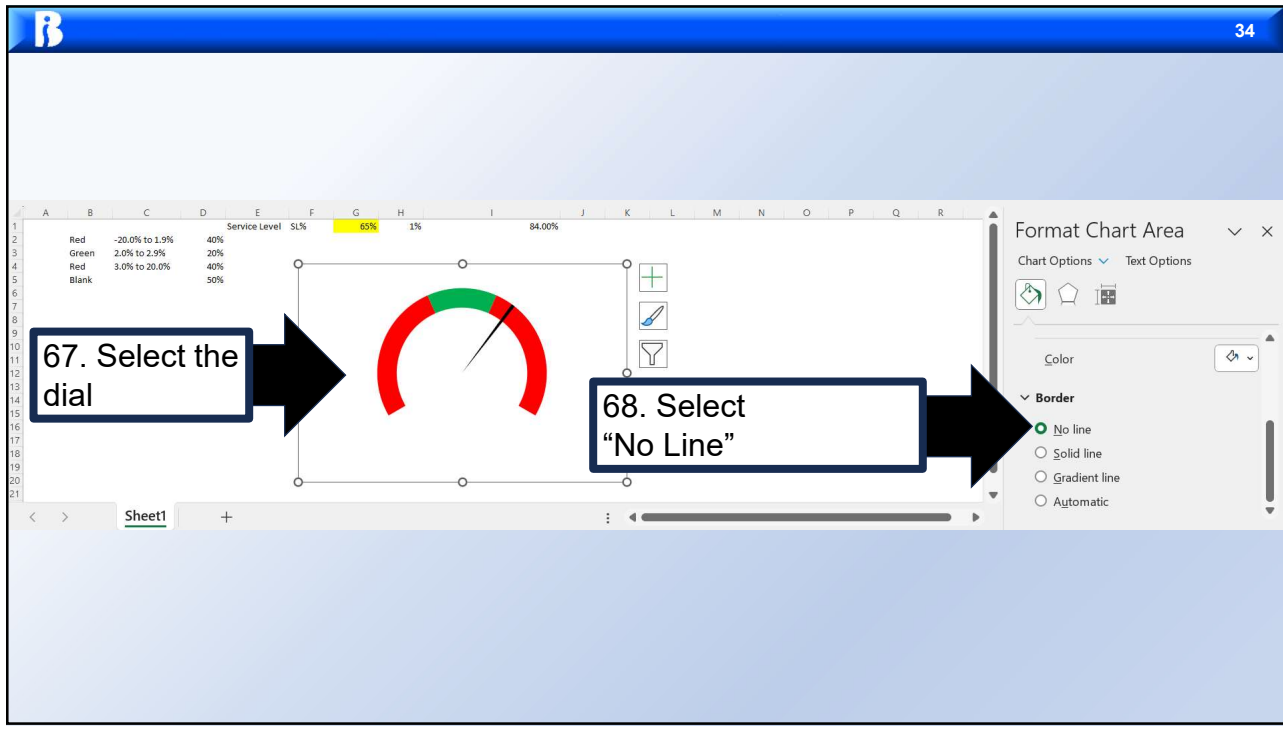
Pie Explosion: 0%

32





33



34

35

	A	B	C	D	E	F	G	H	I	J	K
1					Service Level	SL%	65%	1%		84.00%	
2		Red	-20.0% to 1.9%	40%							
3		Green	2.0% to 2.9%	20%							
4		Red	3.0% to 20.0%	40%							
5		Blank		50%							

35

36


	A	B	C	D	E	F	G	H	I	J	K
1					Service Level	SL%	65%	1%		84.00%	
2		Red	-20.0% to 1.9%	40%							
3		Green	2.0% to 2.9%	20%							
4		Red	3.0% to 20.0%	40%							
5		Blank		50%							

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## Key players in the U.S. economy

Indicator	Source	Link
Gross Domestic Products (GDP)	Bureau of Economic Analysis	<a href="https://www.bea.gov">https://www.bea.gov</a>
Unemployment	U.S Bureau of Labor Statistics	<a href="https://www.bls.gov/">https://www.bls.gov/</a>
Consumer Price Index (CPI)	U.S Bureau of Labor Statistics	<a href="https://www.bls.gov/">https://www.bls.gov/</a>
Poducer Price Index (PPI)	U.S Bureau of Labor Statistics	<a href="https://www.bls.gov/">https://www.bls.gov/</a>
Consumer Confidence Index (CCI)	OECD data	<a href="https://data.oecd.org/leadind/consumer-confidence-index-indicator-">https://data.oecd.org/leadind/consumer-confidence-index-indicator-</a>
Business Confidence Index (BCI)	OECD data	<a href="https://data.oecd.org/leadind/business-confidence-index-bci.htm#indicator-chart">https://data.oecd.org/leadind/business-confidence-index-bci.htm#indicator-chart</a>
Federal Fund Rate	Federal Open Market Committee - Minutes	<a href="https://www.federalreserve.gov/monetarypolicy/fomccalendars.htm">https://www.federalreserve.gov/monetarypolicy/fomccalendars.htm</a>



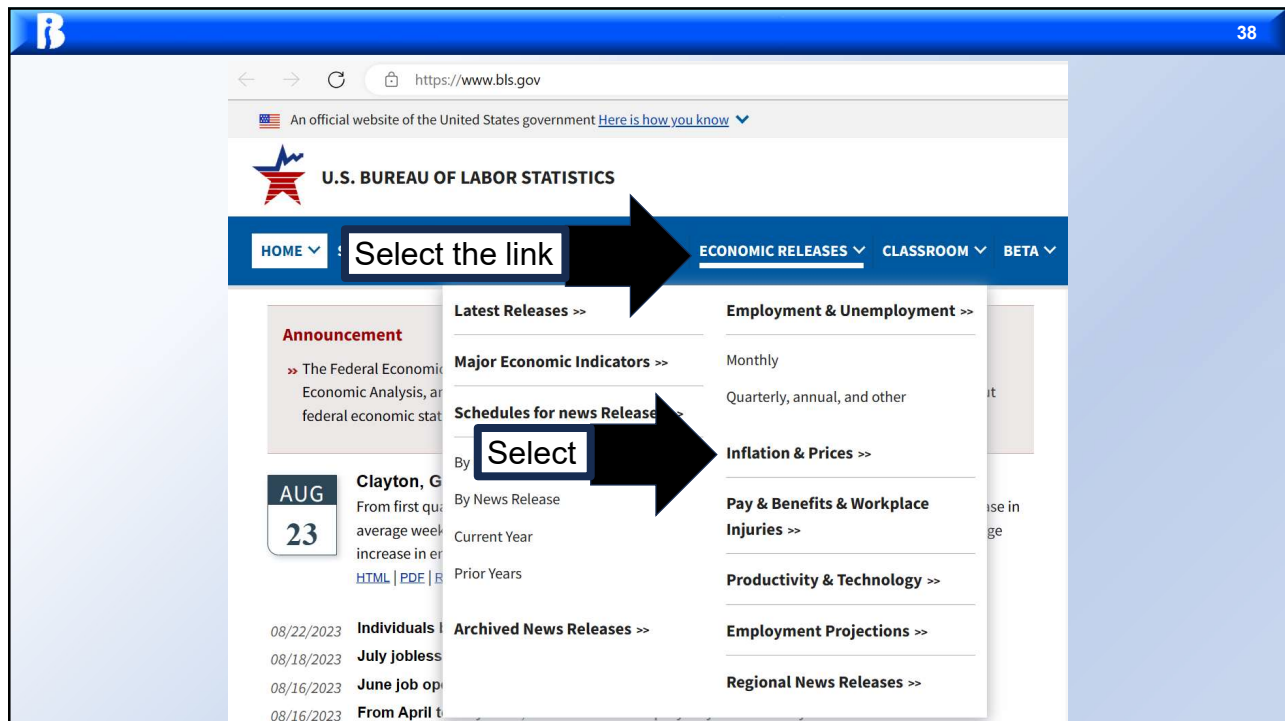
**DIY**



Select the link

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The screenshot shows the homepage of the U.S. Bureau of Labor Statistics. The navigation menu includes 'HOME', 'ECONOMIC RELEASES', 'CLASSROOM', and 'BETA'. A callout box labeled 'Select the link' points to the 'ECONOMIC RELEASES' menu item. Below the navigation, there are several sections: 'Announcement', 'Latest Releases', 'Major Economic Indicators', 'Schedules for news Release', 'Employment & Unemployment', 'Inflation & Prices', 'Pay & Benefits & Workplace Injuries', 'Productivity & Technology', 'Employment Projections', and 'Regional News Releases'. A second callout box labeled 'Select' points to the 'Schedules for news Release' section.

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https://www.bls.gov/bls/newsrels.htm#OPLC

**Inflation and Prices**

- Consumer Price Index (PDF) (Charts)
- Producer Price Index (PDF) (Charts)
- U.S. Import and Export Prices (PDF) (Charts)
- Consumer Expenditures Survey (Annual) (PDF)

**Pay and Benefits and Workplace Injuries**

- Census of Fatal Occupational Injuries (Charts)
- Employee Benefits in (PDF) (Charts) **Select**
- Employer Costs for Employee Compensation (PDF) (Charts)
- Employer-Reported Workplace Injuries and Illnesses (PDF) (Charts)
- Employment Cost Index (PDF) (Charts)
- Major Work Stoppages (PDF)
- Occupational Requirements Survey (PDF)

**Productivity and Technology**

- Productivity and Costs (PDF) (Charts)
- Productivity and Costs by Industry: Manufacturing and Mining Industries (PDF) (Charts)
- Productivity and Costs by Industry: Selected Service-Providing Industries (PDF) (Charts)
- Productivity and Costs by Industry: Wholesale and Retail Trade (PDF) (Charts)
- Productivity by State (PDF) (Charts)
- Total Factor Productivity (PDF)
- Total Factor Productivity in Major Industries (PDF) (Charts)
- Total Factor Productivity Trends for Detailed Industries (PDF)

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https://www.bls.gov/charts/consumer-price-index/consumer-price-index-by-category.htm#

Bureau of Labor Statistics > Data Tools > Charts and Applications > Charts for Economic News Releases

**Graphics for Economic News Releases**

**12-month percentage change, Consumer Price Index, selected categories**

Charts related to the latest "Consumer Price Index" news release | [More chart packages](#)

PREV NEXT 12-month percentage change, Consumer Price Index, selected categories (drilldown most recent month) GO

12-month percentage change, Consumer Price Index, selected categories, July 2023, not seasonally adjusted

Click on columns to drill down

Major categories

Major category	12-month percentage change
Food at home	~3.5%
Shelter	~5.0%
Transportation	~-1.5%
Medical equipment, supplies, and services	~4.5%

40

The screenshot shows the U.S. Bureau of Labor Statistics website. The page title is "Economic News Release" and the sub-page is "Consumer Price Index Summary". The main heading is "CONSUMER PRICE INDEX - JULY 2023". A callout box with a black border and white background contains the text: "The 3.2% is what you are wanting to show on your dial." A black arrow points from this box to the text in the article: "The all items index increased 3.2 percent for the 12 months ending July, slightly more than the 3.0-percent increase for the 12 months ending in June." Below the article is a table caption: "Table A. Percent changes in CPI for All Urban Consumers (CPI-U): U.S. city average".

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*In this session we:*

- ✓ Created your own dial.
- ✓ Extracted information from the indicator's source links and input the value into your dial.

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