Exhibit 1H - Salary Schedule vs Inflation 20 Yrs

Average Annual Gain of the SMSD Salary Schedule			
	1999-2000	2018-2019	Average Annual Gain
BS Step 5	$ 29,459	$ 44,096	2.15%
BS Step 8	$ 31,562	$ 47,242	2.15%
MS Step 5	$ 34,337	$ 51,397	2.15%
MS Step 10	$ 38,886	$ 58,206	2.15%
MS+30 Step 15	$ 46,506	$ 69,609	2.15%

US Inflation Rate Since 2000
http://www.in2013dollars.com/us/inflation/2000
2.14%

Example

2000	$ 29,459	
2001	$ 30,091	<--- 2000 pay rate + 2.15%
2002	$ 30,737	<--- 2001 pay rate + 2.15%
2003	$ 31,396	<---
2004	$ 32,070	<---
2005	$ 32,758	<---
2006	$ 33,461	<---
2007	$ 34,179	<---
2008	$ 34,912	<---
2009	$ 35,661	<---
2010	$ 36,427	<--- 2009 pay rate + 2.15%
2011	$ 37,208	<---
2012	$ 38,007	<---
2013	$ 38,822	<---
2014	$ 39,655	<---
2015	$ 40,506	<---
2016	$ 41,375	<---
2017	$ 42,263	<---
2018	$ 43,170	<---
2019	$ 44,096	<---

Between 1999-2000 and 2018-2019, the increase in the SMSD Salary Schedule has outpaced inflation rates over the same peirod of time.

The average annual gain in the SMSD salary schedule is 2.15%. The average inflation rate is 2.14%.

This means that even if an employee were frozen on a step from 2000 to 2019, that employee would have gained, on average, 2.15% annually.

$$Final\ Amount = Principle\ (1 + rate)^{(rate)(time)}$$

$$A = P\ (1 + R)^{(R)(T)}$$

$$Average\ Rate\ (R) = e^{\left[\left(\ln\left(\frac{A}{P}\right)\right)/T\right]} - 1$$

Additional Sources: https://www.usinflationcalculator.com/
https://www.bls.gov/data/inflation_calculator.htm

Inflation Calculator

Amount	Start year	End year	
$ 100	2000	2019	Calculate

$100 in 2005 → 2019 $100 in 1995 → 2019   Inflation rate in 2019   Future inflation calculator

U.S. Inflation Rate, $100 in 2000 to 2019

According to the Bureau of Labor Statistics consumer price index, today's prices in 2019 are 49.45% higher than average prices throughout 2000. The dollar experienced an average inflation rate of 2.14% per year during this period, meaning the real value of a dollar decreased.

In other words, $100 in 2000 is equivalent in purchasing power to about $149.45 in 2019, a difference of $49.45 over 19 years.

The 2000 inflation rate was 3.36%. The current inflation rate (2018 to 2019) is now 1.76%[1]. If this number holds, $100 today will be equivalent in buying power to $101.76 next year. The current inflation rate page gives more detail on the latest official inflation rates.

Contents

Inflation from 2000 to 2019	
Cumulative price change	49.45%
Average inflation rate	2.14%
Converted amount ($100 base)	$149.45
Price difference ($100 base)	$49.45
CPI in 2000	172.200
CPI in 2019	257.346
Inflation in 2000	3.36%
Inflation in 2019	1.76%

Buying power of $100 in 2000

Exhibit 1H - Salary Schedule vs Inflation 10 Yrs

Average Annual Gain of the SMSD Salary Schedule			
	2009-2010	2018-2019	Average Annual Gain
BS Step 5	$ 41,065	$ 44,096	0.79%
BS Step 8	$ 43,995	$ 47,242	0.79%
MS Step 5	$ 47,864	$ 51,397	0.79%
MS Step 10	$ 54,205	$ 58,206	0.79%
MS+30 Step 15	$ 64,825	$ 69,609	0.79%

US Inflation Rate Since 2010
http://www.in2013dollars.com/us/inflation/2000

1.86%

Example	
2010	$ 41,065 <---
2011	$ 41,391 <---
2012	$ 41,720 <---
2013	$ 42,051 <---
2014	$ 42,386 <---
2015	$ 42,722 <---
2016	$ 43,062 <---
2017	$ 43,404 <---
2018	$ 43,748 <---
2019	$ 44,096 <---

Between 2009-2010 and 2018-2019, the increase in the SMSD Salary Schedule fell below inflation rates over the same period of time.

The average annual gain in the SMSD salary schedule is 0.79%. The average inflation rate is 1.86%.

$$Final\ Amount = Principle\ (1 + rate)^{(rate)(time)}$$

$$A = P\ (1 + R)^{(R)(T)}$$

$$Average\ Rate\ (R) = e^{\left[(\ln(\frac{A}{P}))/T\right]} - 1$$

Additional Sources: https://www.usinflationcalculator.com/
https://www.bls.gov/data/inflation_calculator.htm

$100 in 2010 → $118.02 in 2019

Inflation Calculator

Amount	Start year	End year	
$ 100	2010	2019	Calculate

$100 in **2015** → 2019 $100 in **2005** → 2019   Inflation rate in **2019**   Future inflation calculator

U.S. Inflation Rate, $100 in 2010 to 2019

According to the Bureau of Labor Statistics consumer price index, today's prices in 2019 are 18.02% higher than average prices throughout 2010. The dollar experienced an average inflation rate of 1.86% per year during this period, meaning the real value of a dollar decreased.

In other words, $100 in 2010 is equivalent in purchasing power to about $118.02 in 2019, a difference of $18.02 over 9 years.

The 2010 inflation rate was 1.64%. The current inflation rate (2018 to 2019) is now 1.76%[1]. If this number holds, $100 today will be equivalent in buying power to $101.76 next year. The current inflation rate page gives more detail on the latest official inflation rates.

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1. Overview
2. Buying Power of $100

Inflation from 2010 to 2019

Cumulative price change	18.02%
Average inflation rate	1.86%
Converted amount ($100 base)	$118.02
Price difference ($100 base)	$18.02
CPI in 2010	218.056
CPI in 2019	257.346
Inflation in 2010	1.64%
Inflation in 2019	1.76%

Buying power of $100 in 2010

Exhibit 1H - Salary Schedule vs Inflation 6 Yrs

Average Annual Gain of the SMSD Salary Schedule			
	2013-2014	2018-2019	Average Annual Gain
BS Step 5	$ 41,065	$ 44,096	1.43%
BS Step 8	$ 43,995	$ 47,242	1.43%
MS Step 5	$ 47,864	$ 51,397	1.43%
MS Step 10	$ 54,205	$ 58,206	1.43%
MS+30 Step 15	$ 64,825	$ 69,609	1.43%

7 Year Gain

2019-2020 - SMSD Proposed	Average Annual Gain (2014-2020
$ 44,537	1.36%
$ 47,714	1.36%
$ 51,911	1.36%
$ 58,788	1.36%
$ 70,305	1.36%

US Inflation Rate Since 2014
http://www.in2013dollars.com/us/inflation/2000

1.68%

Example		
2014	$ 41,065	<---
2015	$ 41,654	<---
2016	$ 42,252	<---
2017	$ 42,858	<---
2018	$ 43,472	<---
2019	$ 44,096	<---

Between 2013-2014 and 2018-2019, the increase in the SMSD Salary Schedule fell slightly below inflation rates over the same period of time.

The average annual gain in the SMSD salary schedule is 1.43%. The average inflation rate is 1.68%.

Under the district's proposed 1% increase to the salary schedule, the average annual gain from 2014 to 2020 would be 1.36%.

$$Final\ Amount = Principle\ (1 + rate)^{(rate)(time)}$$

$$A = P\ (1 + R)^{(R)(T)}$$

$$Average\ Rate\ (R) = e^{\left[(\ln(\frac{A}{P}))/T\right]} - 1$$

Additional Sources: https://www.usinflationcalculator.com/
https://www.bls.gov/data/inflation_calculator.htm

$100 in 2014 → $108.71 in 2019

Inflation Calculator

Amount	Start year	End year	
$ 100	2014	2019	Calculate

$100 in 2015 → 2019 $100 in 2010 → 2019   Inflation rate in 2019   Future inflation calculator

U.S. Inflation Rate, $100 in 2014 to 2019

According to the Bureau of Labor Statistics consumer price index, today's prices in 2019 are 8.71% higher than average prices throughout 2014. The dollar experienced an average inflation rate of 1.68% per year during this period, meaning the real value of a dollar decreased.

In other words, $100 in 2014 is equivalent in purchasing power to about $108.71 in 2019, a difference of $8.71 over 5 years.

The 2014 inflation rate was 1.62%. The current inflation rate (2018 to 2019) is now 1.76%[1]. If this number holds, $100 today will be equivalent in buying power to $101.76 next year. The current inflation rate page gives more detail on the latest official inflation rates.
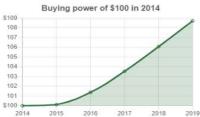
Contents
1. Overview

Inflation from 2014 to 2019

Cumulative price change	8.71%
Average inflation rate	1.68%
Converted amount ($100 base)	$108.71
Price difference ($100 base)	$8.71
CPI in 2014	236.736
CPI in 2019	257.346
Inflation in 2014	1.62%
Inflation in 2019	1.76%

Buying power of $100 in 2014

Exhibit 1H - Salary Schedule vs Inflation 3 Yrs

Average Annual Gain of the SMSD Salary Schedule			
	2016-2017	2018-2019	Average Annual Gain
BS Step 5	$ 42,400	$ 44,096	1.98%
BS Step 8	$ 45,425	$ 47,242	1.98%
MS Step 5	$ 49,420	$ 51,397	1.98%
MS Step 10	$ 55,967	$ 58,206	1.98%
MS+30 Step 15	$ 66,932	$ 69,609	1.98%

4 Year Gain

2019-2020 - SMSD Proposed	Average Annual Gain (2017-2020)
$ 44,537	1.65%
$ 47,714	1.65%
$ 51,911	1.65%
$ 58,788	1.65%
$ 70,305	1.65%

The current annual inflation rate as of October 2019 is 1.8%.

US Inflation Rate Since 2017
http://www.in2013dollars.com/us/inflation/2000

2.46%

Example		
2017	$ 42,400	<---
2018	$ 43,240	<---
2019	$ 44,096	<---

Between 2016-2017 and 2018-2019, the increase in the SMSD Salary Schedule fell slightly below inflation rates over the same period of time.

The average annual gain in the SMSD salary schedule is 1.98%. The average inflation rate is 2.46%.

Under the district's proposed 1% increase to the salary schedule, the average annual gain from 2017 to 2020 would be 1.65%.

$$Final\ Amount = Principle\ (1 + rate)^{(rate)(time)}$$

$$A = P\,(1 + R)^{(R)(T)}$$

$$Average\ Rate\ (R) = e^{\left[(\ln(\frac{A}{P}))/T\right]} - 1$$

Additional Sources:
https://www.usinflationcalculator.com/
https://www.bls.gov/data/inflation_calculator.htm

Inflation Calculator

Amount	Start year	End year	
$ 100	2017	2019	Calculate

$100 in 2015 → 2019   Future inflation calculator

U.S. Inflation Rate, $100 in 2017 to 2019

According to the Bureau of Labor Statistics consumer price index, today's prices in 2019 are 4.99% higher than average prices throughout 2017. The dollar experienced an average inflation rate of 2.46% per year during this period, meaning the real value of a dollar decreased.

In other words, $100 in 2017 is equivalent in purchasing power to about $104.99 in 2019, a difference of $4.99 over 2 years.

The 2017 inflation rate was 2.13%. The current inflation rate (2018 to 2019) is now 1.76%[1]. If this number holds, $100 today will be equivalent in buying power to $101.76 next year. The current inflation rate page gives more detail on the latest official inflation rates.

Contents

1 Overview

Inflation from 2017 to 2019

Cumulative price change	4.99%
Average inflation rate	2.46%
Converted amount ($100 base)	$104.99
Price difference ($100 base)	$4.99
CPI in 2017	245.120
CPI in 2019	257.346
Inflation in 2017	2.13%
Inflation in 2019	1.76%

Buying power of $100 in 2017