

COVID-19 Financial Response

Revenue Loss Calculator: Step-By-Step Guide

Revenue Reduction Overview



**Reproduced from U.S. Treasury Coronavirus State and Local Fiscal Recovery Funds: Interim Final Rule. The Interim Final Rule is available here and still subject to change: <u>https://www.govinfo.gov/content/pkg/FR-2021-05-17/pdf/2021-10283.pdf</u>

Revenue Reduction Calculation



Losses are determined by calculating counterfactual revenue to estimate revenue growth absent the pandemic

- Cook County is providing an Excel revenue loss calculator as a resource for municipalities*
- Calculator allows municipalities to determine revenue loss amounts, model forecasts, and visualize revenue recovery scenarios through 2023
- Calculator <u>only</u> requires municipalities to input fiscal year end date and eligible revenue data for 2016 – 2020

^{*}This resource was developed by Cook County and is intended for **planning purposes** only. This tool is not an official Department of Treasury resource. Final guidance from the Treasury Department is still pending and subject to change. US Treasury disallows the use of projections for revenue loss reporting.

Screenshot Map of Excel Calculator



guidance from the department is still pending and subject to change. U.S. Treasury disallows the use of projections for revenue loss reporting.

ARPA Revenue Loss Calculation

Date Fiscal Year Ended Prior to Pandemic	11/30/2019				
Base Revenue (FY2019)	\$2,150,000				
Growth Rate	4.1%				
		12/31/2020	12/31/2021	12/31/2022	12/31/2023
Months elapsed since base year		13	25	37	49
Counterfactual Revenue		\$2,245,657	\$2,337,729	\$2,433,576	\$2,533,352
Actual revenue for the period		\$1,950,000	\$2,127,755	\$2,321,713	\$2,533,352
Revenue Loss		(\$295,657)	(\$209,974)	(\$111,862)	\$0

Revenue loss calculator allows users to automatically generate counterfactual revenue, 2020 revenue loss and recovery scenarios by following these steps:

- 1. Manually input your municipality's last fiscal year end date prior to the pandemic
- 2. Identify eligible 2019 revenue and manually input into 2019 Revenue Statement tab
- 3. Manually input eligible revenue data from 2016 2018
- 4. Manually input 2020 actual revenue
- 5. View actual revenue loss calculation for 2020 and forecast full recovery scenario for 2021 to 2023

Calculator Color Key						
Yellow	Manual Input					
Blue	Counterfactual Revenue (calculated value)					
Gray	Forecasted Total					

ARPA Revenue Loss Calculation

Date Fiscal Year Ended Prior to Pandemic	11/30/2019				
Base Revenue (FY2019)	\$2,150,000				
Growth Rate	4.1%	1			
		12/31/2020	12/31/2021	12/31/2022	12/31/202
Months elapsed since base year		13	25	37	l
Counterfactual Revenue		\$2,245,657	\$2,337,729	orecast	\$2,533,35
Actual revenue for the period		\$1,950,000	\$2,127,755	\$2,321,713	\$2,533,35
Revenue Loss		(\$295,657)	<u>(\$209,974)</u>	(\$111.862)	Ś

- Revenue loss calculator allows users to forecast revenue loss from 2021 – 2023 for planning purposes only*
- U.S. Treasury reporting requires actual revenue

Inputs	Outputs
1. Fiscal Year End Date	1. Months Elapsed Since Base Year (n)
2. Base Year Revenue	2. Counterfactual Revenue for each year from 2020 - 2023
3. Growth Adjustment	3. Revenue Loss for each year
4. Actual Revenue (2016- 2020)	4. Yearly Growth Rate for Full Revenue Recovery in 2023

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1. Manually input your municipality's last fiscal year end date prior to the pandemic

Revenue Loss	a Calculator		
			Manually input municipality's fiscal year end date (cell C5)
ARPA Revenue Loss Calculation			
Date Fiscal Year Ended Prior to Pandemic 🤇	11/30/2019		
Base Revenue (FY2019)	\$2,150,000		
Growth Rate	4.1%		
		12/31/2020	
Months elapsed since base year		13	
Counterfactual Revenue		\$2,245,657	
Actual revenue for the period		\$1,950,000	
Revenue Loss		(\$295,657)	

Months elapsed since base fiscal year end date is automatically calculated (n)

2. Identify eligible 2019 revenue and manually input into 2019 Revenue Statement tab

"Base revenue" is general revenue collected in the most recent full fiscal year prior to the COVD-19 public health emergency (January 27, 2020)

Revenue Loss Calculator

Fiscal Year End	11/30/2019
Base Revenue	2,150,000
Growth Rate	4.1%

- The workbook includes tabs with revenue statement templates for years 2016 – 2019
- Users modify 2016 2019 revenue statement tabs to determine eligible revenue sources and base year revenue
- Totals from each year are used in the 3-year historical average calculation on the Calculator tab

*Not all revenues listed may be relevant to all municipalities and the revenues listed in the individual yearly revenue tabs is not a comprehensive list. Municipalities should contact their tax advisor or attorney for revenue specific questions.

'2019 Revenue Statement' Tab*

Terres		Amount of tax collections	for all taxes imposed by the		
Taxes		government.			
Property Tax					
Property Tax	Y	S	700,000.00		
Sales and Gross Receipts Tax					
General Sales and Use Tax	Y	S	-		
Selective Sales Tax					
Alcoholic Beverage	Y	\$	50,000.00		
Amusements Sales Tax	Y	S	-		
Motor Fuels Sales Tax	Y	S	200,000.00		
Parimutuels Tax	Y	\$	-		
Public Utilities Sales Tax	Y	\$	50,000.00		
Tobacco Products Tax	Y	S	-		
Other Sales Tax	Y	\$	-		
Licensing and Permit Taxes					
Alcoholic Beverage Licensing and Permits	Y	\$	250,000.00		
Building/Construction Permits	Y	\$	-		
Amusements Licensing and Permits	Y	\$	-		
Motor Vehicles Licensing and Permits	Y	S	-		
Public Utilities Licensing and Permits	Y	\$	-		
Occupation and Business Licensing and Permits	Y	\$	-		
Other Licensing and Permits	Y	S	-		
Income Tax					
Individual Income Tax	Y	\$	-		
Corporate Income Tax	Y	\$	500,000.00		
License and Permit Tax					
Alcoholic Beverage	Y	\$	-		
Amusements	Y	\$	-		
Motor Vehicles	Y	\$	-		
Public Utilities	Y	\$	-		
Occupational and Business Licenses	Y	\$	-		
Other Selective Sales	Y	\$			
Other Taxes					
Death and Gift Tax	Y	\$	-		
Documentary and Stock Transfer Tax	Y	\$			
Severance Tax	Y	S			
Other	Y	S			
	Amo	unt of revenue in form of g	rants, share of taxes imposed by		
Intergovernmental Revenue		rs, PILOTs, or reimburseme			
Intergovernmental Revenue					
From Other Local Governments	Y	S	10,000.00		
From the State	Y	\$	40,000.00		
From the Federal Government	N	S	-		

2. Identify eligible 2019 revenue and manually input into 2019 Revenue Statement tab

Example Revenue Statement*

Revenue Category	Account	Eligible?	2019 Governmental Activities	2019 Business- Type Activities	
Charges for Service	Recreation Fees	✓	\$300,000	\$80,000	
Operating &	CRF	х	\$1,000,000	\$0	
Capital Grants	State Hwy Maintenance	✓	\$400,000	\$0	
	Sales 🗸		\$100,000	\$0	
	Property	\checkmark	\$750,000	\$100,000	
Taxes	Liquor 🗸		\$75,000	\$0	
	Hotel	\checkmark	\$0	\$0	
	Municipal Utility	Х	\$120,000	\$0	
Miscellaneous	Refunds	х	\$0	\$50,000	
Revenue	Parking Meters	~	\$300,000	\$0	
Investment	Sales	Х	\$0	\$25,000	
Income	Interest	~	\$45,000	\$0	
Total Eligi	ble General Rev	enue	\$2,150	,000	

'2019 Revenue Statement' Tab

Taxes			or all taxes imposed by the nment.
Property Tax			
Property Tax	Y	\$	700,000.0
Sales and Gross Receipts Tax			
General Sales and Use Tax	Y	\$	-
Selective Sales Tax			
Alcoholic Beverage	Y	\$	50,000.
Amusements Sales Tax	Y	\$	-
Motor Fuels Sales Tax	Y	\$	200,000.
Parimutuels Tax	Y	\$	-
Public Utilities Sales Tax	Y	\$	50,000.
Tobacco Products Tax	Y	\$	-
Other Sales Tax	Y	\$	-
icensing and Permit Taxes			
Alcoholic Beverage Licensing and Permits	Y	\$	250,000
Building/Construction Permits	Y	\$	-
Amusements Licensing and Permits	Y	\$	-
Motor Vehicles Licensing and Permits	Y	\$	-
Public Utilities Licensing and Permits	Y	\$	-
Occupation and Business Licensing and Permits	Y	\$	-
Other Licensing and Permits	Y	\$	-
ncome Tax			
Individual Income Tax	Y	S	-

2a. Assess revenue statements and sources to determine eligible revenues based on available Treasury guidance (note: some aggregated revenues may be partially ineligible and require disaggregation)

2b. Input eligible revenues into yellow highlighted tabs and revenue statement line items as applicable

*Highlighted revenues are likely ineligible revenues. Not all revenues listed may be relevant to all municipalities and the revenues listed in the individual yearly revenue tabs is not a comprehensive list. Municipalities should contact their tax advisor or attorney for revenue specific questions.

3. Manually input eligible revenue data from 2016 – 2018

Calculator includes templates for Fiscal Year 2016 – 2018 in separate tabs in the same format as those for 2019

3-Year Historical Average Growth Rate Calculator

					Automaticall	ly populated	with
Year	Value	Change	% change		sum of all er	ntered revenu	ues
2016	\$2,040,000)			from 'Reven	ue Statemer	nť
2017	\$1,950,000) 390,000	-4.41%		tabs		
2018	\$2,005,000	\$55,000	2.82%				
2019	\$2,150,000	\$145,000	7.23%		Calculates 3	B-year historio	
			1.88%	-	growth rate	-year mstorid	Jai
	AR	RPA Revenue L	oss Calculation	LOSS	Calculator		
	Da	te Fiscal Year	Ended Prior to Pan	demic	11/30/2019		
	Ba	se Revenue (F	Y2019)		\$2,150,000		
Colculator automatically	Gr	owth Rate			4.1%		
Calculator automatically						12/31/2020	
selects higher growth rate			since base year			13	
(4.1% or 3-year historical	Co	unterfactual R	Revenue			\$2,245,657	
· · · ·	Ac	tual revenue f	for the period			\$1,950,000	
average)	Re	venue Loss				(\$295,657)	11

4. Manually input 2020 actual revenue



*Input actual general revenue collected during 12-month period ending on each calculation date (i.e. actual revenue collected in the 2020 calendar year for December 31, 2020 calculation date)

5. View actual revenue loss calculation for 2020 and forecast full recovery scenario for 2021 to 2023*



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Revenue Loss Calculator

Cell C5 – C7	emic	11/30/2019 \$2,150,000 4.1%		
				12/31/2020
Months elapsed since base year				13
Counterfactual Revenue				\$2,245,657
Actual revenue for the period		Cell F11	\rightarrow	\$1,950,000
Revenue Loss			- ((\$295,657

Cell F12: 2020 revenue replacement amount to report to Treasury

ase Year Revenue®	Fiscal Year End Date
Cell C6: \$2,150,000	Cell C5: 11/30/2019
rowth Adjustment Used o	*Actual General Revenue as of 12 months ended December 31, 2020
Cell C7: 4.1%	Cell F11: \$1,950,000
stimated Revenue Loss Due to Covid-19 Public Health Emergency	0
Cell F12: \$295,657	
es venue replacement funds w venue Replacement Funds Explanation	vere allocated to government services
•	how revenue replacement funds were t services in the rich text field
Clear Form	

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Revenue Replacement Entry Screen (Interim Report)