

## MOVCAC – Logan County Excess Death Analysis

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MOVCAC Contributor: Sean P. Keefe

Based on population numbers provided by [West Virginia Demographics](#), Logan County ranks seventeenth in the state with 30,827 total residents. MOVCAC has performed numerous detailed analyses on Wood County excess death. Via that analysis, we confirmed that 2021 saw the highest levels of death experienced in recent history. Based on that analysis and the publication of the 2021 vital statistics by the WV DHHR, we are finally able to provide an analysis of this excess death phenomenon for each county in West Virginia.

As you can see from the two tables below, Logan County’s total death experience closely mirrored the increases realized at the state level. Not only did Logan County set the record for total death in 2020, they then saw an astonishing 31.39% increase in 2021 over the 2019 pre-pandemic level:

Year	Total WV Death	Percent Change
2011	21,870	
2012	21,651	-1.00%
2013	21,846	0.90%
2014	22,164	1.46%
2015	22,643	2.16%
2016	22,721	0.34%
2017	23,290	2.50%
2018	23,462	0.74%
2019	23,291	-0.73%
<b>2020</b>	<b>26,108</b>	<b>12.09%</b>
<b>2021</b>	<b>29,402</b>	<b>26.24%</b>

Year	Total Logan County Death	Percent Change
2011	550	
2012	513	-6.73%
2013	541	5.46%
2014	515	-4.81%
2015	572	11.07%
2016	539	-5.77%
2017	572	6.12%
2018	555	-2.97%
2019	548	-1.26%
<b>2020</b>	<b>603</b>	<b>10.04%</b>
<b>2021</b>	<b>720</b>	<b>31.39%</b>

Data source - [https://dhhr.wv.gov/HSC/SS/Vital\\_Statistics/Pages/Vital\\_Statistics.aspx](https://dhhr.wv.gov/HSC/SS/Vital_Statistics/Pages/Vital_Statistics.aspx)

**Note – While each of the other years in the tables above are compared to the prior year, 2021 is compared to the pre-pandemic year of 2019. It makes no sense to compare 2021 to an already pandemic-effected elevated death total in 2020.**

How is a 31.39% increase over pre-pandemic death even possible? Why are we normalizing all of this excess death? Why is this not being investigated?

The age-ranged tables that follow were created by compiling each year’s age-ranged data provided on the “Age at Death by County of Residence” table in the appendix section of each year’s [Vital Statistics Report published by DHHR from 2011 to 2020](#). The 2021 report no longer contains these detailed schedules. We contacted the DHHR for the 2021 details and were provided a spreadsheet containing the county level detail.

**Age Ranges of Concern**

The following are the tables for age ranges with the most alarming trends culminating in 2021. Please note, many of these deaths are occurring in our working age citizens. Shouldn’t this be investigated by our elected officials?

**(\*)Note – For each of the age ranges below, the two highest years in regards to total death are identified by the bold boxes. The percent change column is comparing totals for each year to the prior year for years 2011 through 2020. For the 2021 percent change calculation, the next highest death total is identified and used as the comparison year.**

Age Range 35-44		
Year	Total Death	Percent
2011	27	
2012	28	3.70%
2013	27	-3.57%
2014	27	0.00%
2015	30	11.11%
2016	19	-36.67%
2017	29	52.63%
2018	29	0.00%
2019	26	-10.34%
2020	35	34.62%
<b>2021 *</b>	<b>49</b>	<b>40.00%</b>

Age Range 45-54		
Year	Total Death	Percent
2011	64	
2012	48	-25.00%
2013	39	-18.75%
2014	38	-2.56%
2015	55	44.74%
2016	45	-18.18%
2017	48	6.67%
2018	48	0.00%
2019	55	14.58%
2020	55	0.00%
<b>2021 *</b>	<b>71</b>	<b>10.94%</b>

What in the world happened to the working-age population of Logan County? The pandemic mostly affected the elderly and infirmed. What could possibly explain a 34.62% increase in death for 35-44-year-olds in 2020? As concerning as that increase is, we then see that death increase by another 40% in 2021. If the pandemic didn't cause all of these deaths, what did?

As you can clearly see in the 45-54 age range table, after the 64 deaths experienced in 2011, this age range settled to an average annual death of 47.88 from 2012 through 2020. 2021 saw the record set at 71. That is only an increase of 10.94% over the previous record set in 2011. However, if instead we compare the 2021 total to the 47.88 average annual death experienced from 2012 – 2020, we see a catastrophic rise in death of 48.29%.

Age Range 65-74			Age Range 75-84		
Year	Total Death	Percent Change	Year	Total Death	Percent Change
2011	104		2011	136	
2012	93	-10.58%	2012	123	-9.56%
2013	107	15.05%	2013	132	7.32%
2014	98	-8.41%	2014	133	0.76%
2015	123	25.51%	2015	113	-15.04%
2016	140	13.82%	2016	104	-7.96%
2017	161	15.00%	2017	128	23.08%
2018	131	-18.63%	2018	123	-3.91%
2019	148	12.98%	2019	117	-4.88%
2020	172	16.22%	2020	120	2.56%
<b>2021 *</b>	<b>191</b>	<b>11.05%</b>	<b>2021 *</b>	<b>173</b>	<b>27.21%</b>

For the 65-74 age range, Logan County saw record total death in 2020. Then, 2021 saw that total death rise again by 11.05% to a new record. What happened in 2021, and why are we not concerned?

Both the 45-54 and 75-84 age ranges set their previous records for total death in the first year of this analysis. After 2011, death never again reached those levels. However, 2021 came along and shattered those records. We used to care about people dying unexpectedly. Why are we so unconcerned with unprecedented death levels?

If you are concerned about this catastrophic rise in Logan County death (as documented by your state), please consider sharing this information with state leaders responsible for representing your population.

**Delegates –**

- JORDAN BRIDGES (R) – LOGAN - [jordan.bridges@wvhouse.gov](mailto:jordan.bridges@wvhouse.gov)
- MARGITTA MAZZOCCHI (R) – LOGAN - [margitta.mazzocchi@wvhouse.gov](mailto:margitta.mazzocchi@wvhouse.gov)

**Senators –**

- RUPIE PHILLIPS (R) – LOGAN - [rupie.phillips@wvsenate.gov](mailto:rupie.phillips@wvsenate.gov)
- MIKE STUART (R) – KANAWHA - [mike.stuart@wvsenate.gov](mailto:mike.stuart@wvsenate.gov)

**Please note** – After the election, your delegate or senator may change. After November 5, 2024, please refer to the new rosters as published on the legislature’s website –

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House Roster - <https://www.wvlegislature.gov/house/roster.cfm>

Senate Roster - <https://www.wvlegislature.gov/Senate1/roster.cfm>