## Preventable COVID-19 Deaths, with available vaccination, 4/15/21 to 7/15/21

Deaths at start of period, actual	567,000			
Deaths at end of period, actual	607,000			
Deaths this period	40,000			
Vaccinated at start	91,000,000			
Vaccinated at end	167,000,000			
US adult population	260,000,000			
Missed vax this period	93,000,000			
Average missed vax over period	46,500,000			
Unvaxed mortality this period, per week, per 100k	3.86			
Vaxed mortality this period, per week, per 100k	0.24			
Predicted deaths, missed people, unvaxed	21,539			
Predicted deaths, missed people, vaxed	1,339			
Preventable deaths this period, estimated	20,200			
<u>Notes</u>				
	Vaxed and unvaxed mortality are an average of 3 data points for start/middle/end of period			
	Vaccinated = completed primary series (usually 2 shots)			

Date	Unvaxed deaths, per week, per 100k	Vaxed deaths, per week, per 100k	Daily deaths, 7 day average	Daily deaths weighting	Vaxed deaths, per week, per 100k, weighted	
7/18/2021	7.21	0.49	276	0.040	0.020	
9/12/2021	14.97	0.99	1716	0.249	0.247	
11/14/2021	12.73	0.24	1028	0.149	0.036	
1/16/2022	18.07	1.36	1934	0.281	0.382	
3/13/2022	1.06	0.11	1234	0.179	0.020	
5/15/2022	1.24	0.29	288	0.042	0.012	
7/17/2022	2.68	0.40	412	0.060	0.024	
Totals			6888	1.000	0.740	
US pop age 5+	313,000,000					
US pop total	332,000,000					
Deaths at start of period, actual	607,834					
Deaths at end of period, actual	1,051,501					
Deaths this period	443,667					
Vaxed deaths this period	143,547					
predicted by weighted rate						
Preventable deaths this period, estimated	300,120					
Data Sources						
Deaths	https://covid.cdc.gov/covid-	⊥ <u>data-tra</u> cker/#trends dailv	<u>deaths</u> select 00			
Vaccine effectiveness		<del></del>				
Vaccination pace		https://covid.cdc.gov/covid-data-tracker/#rates-by-vaccine-status  https://covid.cdc.gov/covid-data-tracker/#vaccination-trends				
Vaccine demographics	https://covid.cdc.gov/covid-					
Population	Various Internet sources					
<u>Notes</u>						
	Black numbers are entered.	Blue numbers are calculate	ed.			
	Vaccinated = primary series	+ 1 or more boosters as re	ecommended.			
	Unvaxed death rates are out	of the total unvaccinated	population.			
	Vaxed death rates are out of	people who are vaccinate				
	Unvaxed deaths for 11/21 to	present use a population	base of 5+ years old.			
	Unvaxed deaths for 7/21 and	d 9/21 use a population ba	es not affect any key o	calculations here.		

## Preventable COVID-19 Deaths, with available vaccination, 4/15/21 to 9/25/22

Deaths at start of period, actual	567,000	
Deaths at end of period, actual	1,051,501	
Deaths this period	484,501	
Preventable deaths 4/15/21 to 7/15/21, estimated	20,200	
Preventable deaths 7/15/21 to 9/25/22, estimated	300,120	
Preventable deaths this period, estimated	320,319	
Preventable deaths fraction of actual deaths, estimated	0.6611	