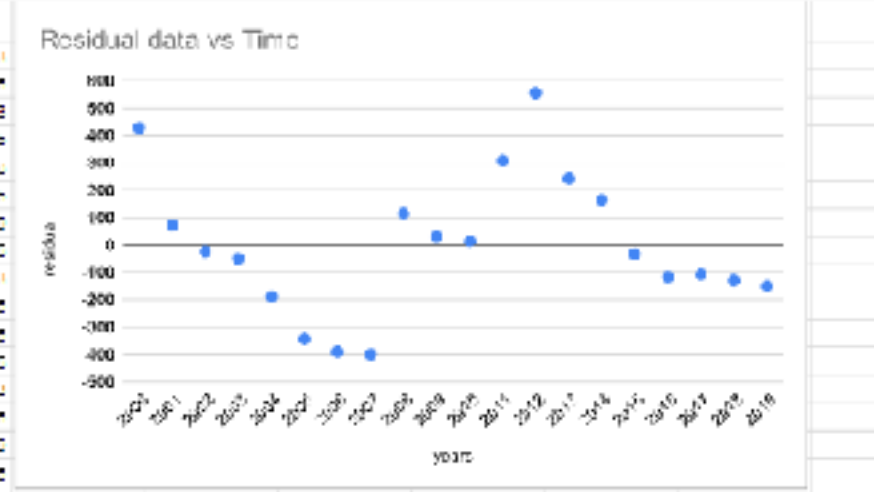
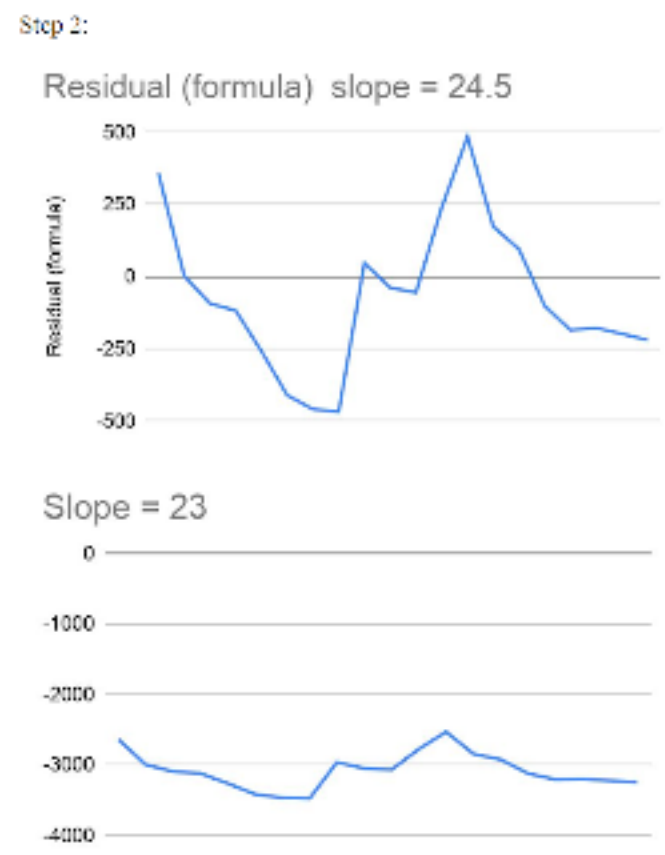


The residual values vary greatly over time and do not seem to be linearly correlated. The shape is more like a wave.

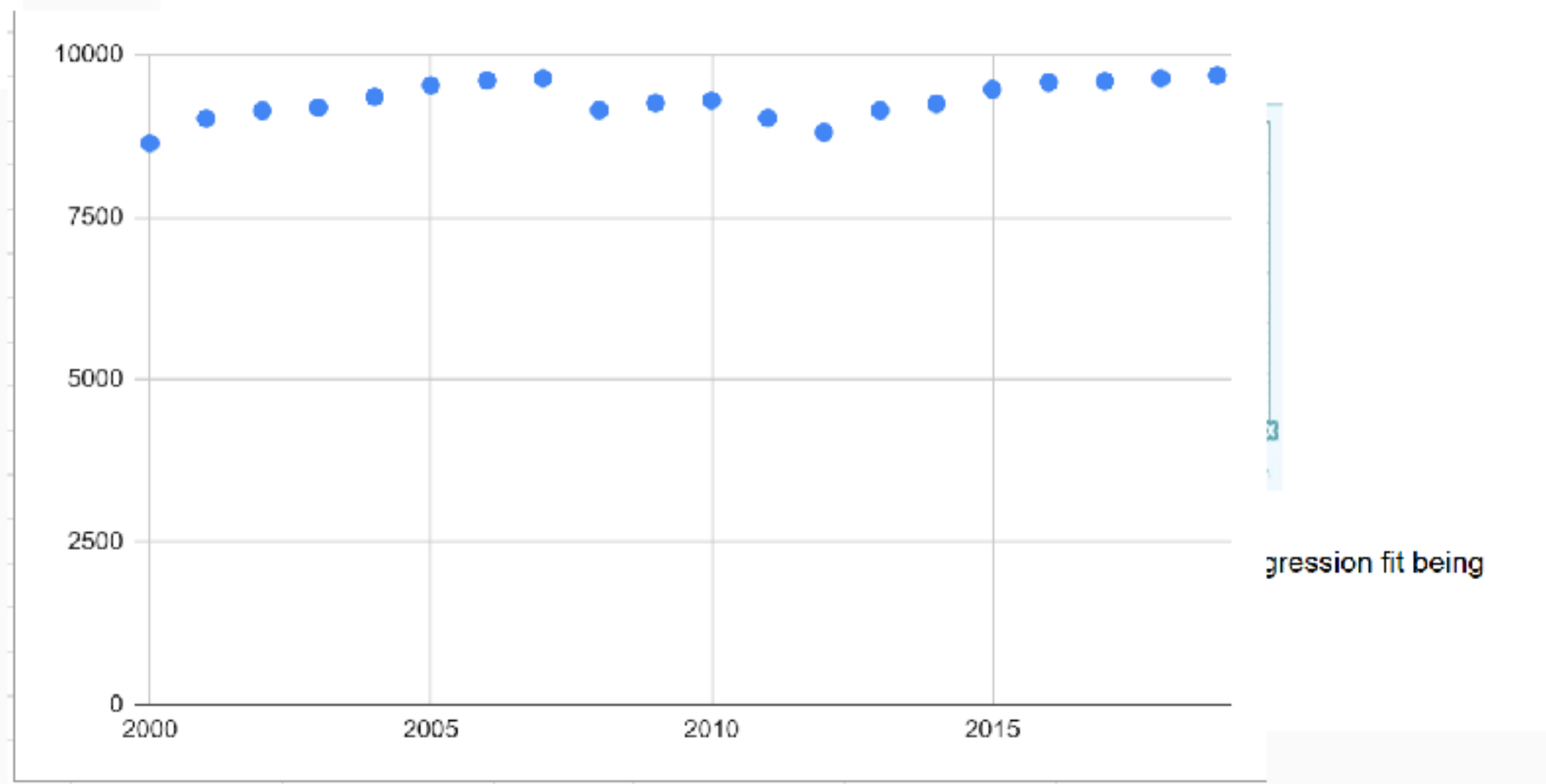
YEAR	Y actual	Y pred	residual
2000	1342	94.505	-1247.495
2001	1000	-10000	-11000
2002	9143		
2003	9162		
2004	9257		
2005	9274		
2006	9507		
2007	9040		
2008	9151		
2009	1020		
2010	9501		
2011	9081		
2012	9070		
2013	9145		
2014	9240		
2015	9170		
2016	9078		
2017	8565		
2018	9510		
2019	9080		



Residuals as a function of time  
 It appears that residuals make for an accurate measurement of the passage of time.  
 This is primarily because the residual is the numerical value of your prediction.



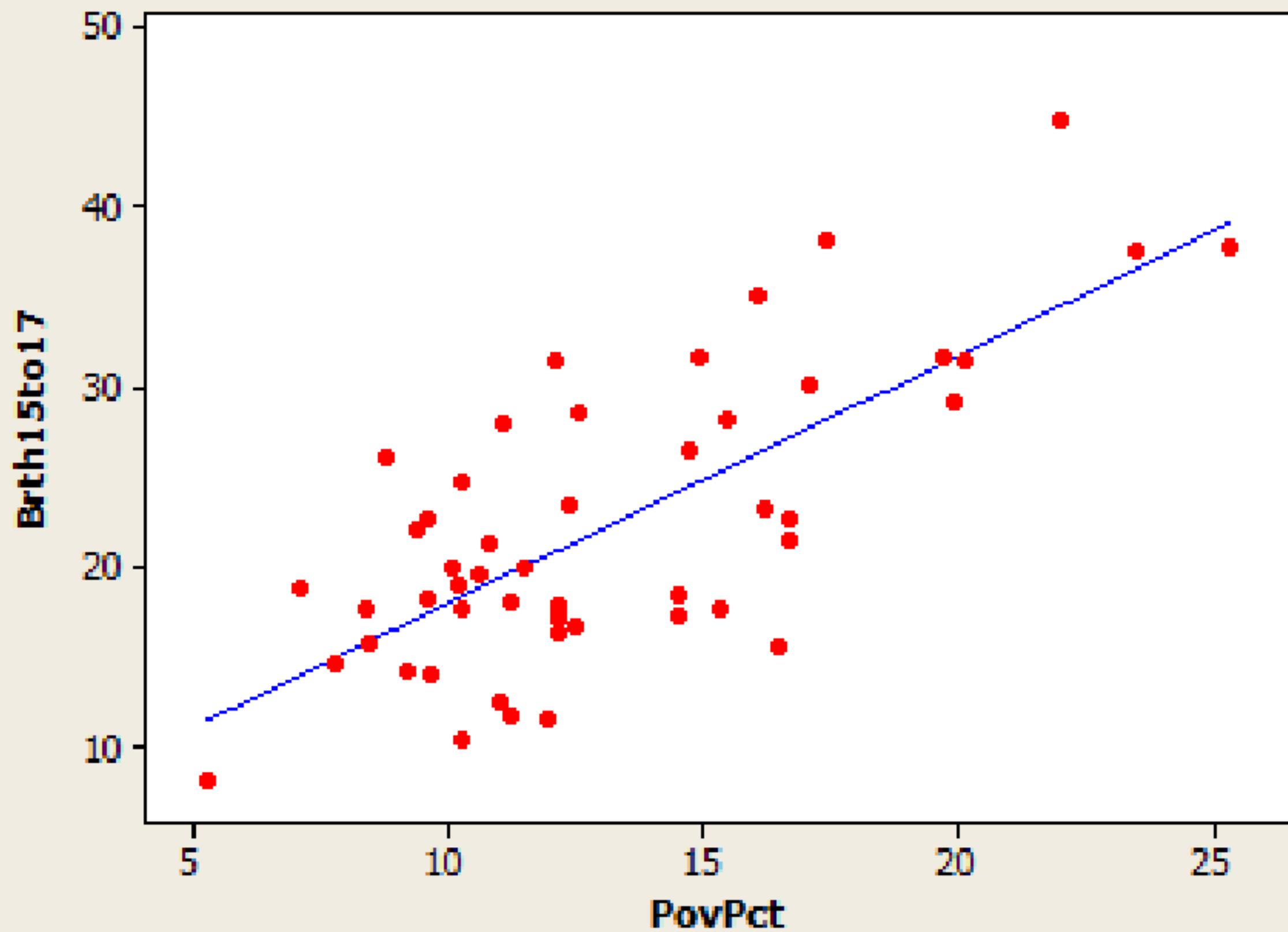
Step 3:  
 Increasing the slope made the residuals closer to 0, varying with positive and negative numbers rather than all negative.



gression fit being

# Fitted Line Plot

$$\text{Brth15to17} = 4.267 + 1.373 \text{ PovPct}$$



S	5.55057
R-Sq	53.3%
R-Sq(adj)	52.4%