

Accident Year vs Calendar Year

(for P&C Insurance)

This guide describes the relationship between two common concepts: **accident year** and **calendar year**. We start by examining how these concepts apply to a paid loss for a single claim.

Table 1 presents cumulative paid loss at year-end evaluations for a **single claim** with a date of loss in 2019. **Calendar year** paid loss can be calculated as the difference between amounts at successive year-end evaluations.

Table 1 Single Claim Example	Paid Loss at Year-End Evaluations (\$000s)						
	<u>12/31/19</u>	<u>12/31/20</u>	<u>12/31/21</u>	<u>12/31/22</u>	<u>12/31/23</u>	<u>12/31/24</u>	
	Cumulative Paid Loss	0	25	40	50	70	70
	Incremental Paid Loss	25	15	10	20	0	
	In Calendar Year:	2020	2021	2022	2023	2024	

In the above example, the **paid loss** for **calendar year 2022** equals:


\$50,000 (evaluated as of 12/31/2022)
 - \$40,000 (evaluated as of 12/31/2021)
\$10,000 (calendar year 2022 paid loss)

Note that it is necessary to specify an **evaluation date** when referring to cumulative paid loss for a claim.

Evaluation dates are not relevant to calendar year measures since they are implicit in the definition of a calendar year.

The single claim example is easily generalized. Table 2 presents cumulative paid loss for **accident year 2019** for a sample portfolio of claims. The claims in **accident year 2019** have this in common: they all occurred in 2019.

An **accident year** is any 12-month period during which accidents occur.

Table 2 AY Example – Paid Loss	Accident Year Paid Loss at Year-End Evaluations (\$000s)						
	<u>12/31/19</u>	<u>12/31/20</u>	<u>12/31/21</u>	<u>12/31/22</u>	<u>12/31/23</u>	<u>12/31/24</u>	
	Cumulative Paid Loss	0	542	885	1179	1285	1340
							
	Incremental Paid Loss	542	343	294	106	55	
Calendar Year:	2020	2021	2022	2023	2024		

