



**CHC**  
Capitol Hill Challenge™

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## How to Calculate CHC Portfolio Rankings

### S&P Growth Method

CHC teams are ranked based on the percent growth of their portfolio's *Total Equity* compared to the percent growth of the S&P 500 Index. The team with the highest *% Return Above/Below S&P 500 Growth* during the CHC session ranks first, the team with the next highest ranks second, and so on (assuming teams have also followed all other CHC rules).



### How to Calculate Portfolio Rankings using S&P Growth Method:

The first step is to calculate a team's total equity percent growth. Subtract \$100,000 from the portfolio's *Total Equity* and then divide by \$100,000. Next, calculate the S&P 500 percent growth by subtracting the S&P 500 closing value on the business day prior to the official start of the CHC session (*My S&P500 Start Value*) from the most recent S&P 500 closing value (*S&P500 Last Close*) and dividing by *My S&P500 Start Value*. Since CHC began on February 3, the business day prior to the official start of the CHC session would be January 31. Finally, subtract the S&P 500 percent growth from your total equity percent growth and multiply by 100. This gives you the team's *% Return Above/Below S&P 500 Growth*.

### Here is a formula to help with calculations:

$$\left( \frac{\text{Total Equity} - \$100,000}{\$100,000} - \frac{\text{S\&P500 Last Close} - \text{My S\&P500 Start Value}}{\text{My S\&P500 Start Value}} \right) \times 100 = \% \text{ Return Above/Below S\&P 500 Growth}$$

**PLEASE NOTE:** If your portfolio username/password was issued after the official start date of the CHC session (February 3, 2020), your S&P 500 start value will be the S&P 500 closing value on the business day prior to when your portfolio username/password was issued. Each team's S&P start value appears as *My S&P500 Start Value* on their *Account Summary* page, the *Rankings* page, and all *Rankings* screens, and does not change during the CHC program period.

**EXAMPLE:** Teams A and B are created before the CHC session start date (February 3, 2020) and have *My S&P500 Start Value* of 2,000. Team C is created on a date after the CHC session start date and has *My S&P500 Start Value* of 2,100. On the last day of the CHC session (May 8, 2020), the *S&P500 Last Close* is recorded at 2,150. Team A ends with \$110,000 in *Total Equity*, and Teams B and C end with \$105,000 each. Using the formula, teams can calculate rankings as per the table below. Team C has the highest *% Return Above/Below S&P 500 Growth* and ranks first, followed by Team A in second place, and Team B in third (assuming each team has also followed all other CHC rules).

	<b>Total Equity</b>	<b>Total Equity Growth</b>	<b>My S&amp;P500 Start Value</b>	<b>S&amp;P500 Last Close</b>	<b>S&amp;P Growth (points)</b>	<b>S&amp;P Growth (percent)</b>	<b>% Return Above/Below S&amp;P 500 Growth</b>
<b>Team C</b>	\$105,000	5.0%	2,100	2150	50	2.4%	2.6%
<b>Team A</b>	\$110,000	10.0%	2,000	2150	150	7.5%	2.5%
<b>Team B</b>	\$105,000	5.0%	2,000	2150	150	7.5%	-2.5%



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