Finding Tom's Safe Withdrawal or Spending Rate for 20 years

SSR% for 20 years Using the 1929 Sequence of Returns
The Withdrawal Rate that ensures a full withdrawal at the end of the 19th year is **5.65%**.

Inputs	
Intial portfolio value	1,000
Constant dollar (C$) withdrawal for spending	**56.5**
Stock Mix (constant)	75%
Total investing cost	0.18%

Portfolio Value at End of Year 19
56.5
0.0

The Safe Withdrawal or Spending Rate will increase with fewer years and decrease with more

Spending Year	Withdrawal for spending in the next year	Portfolio at start of year after withdrawal	Portfolio Value end of year, net of investing cost	Year	Real Return* Stocks	Bonds
1	56.5	943.5	920.4	1930	-4.8%	5.2%
2	56.5	863.8	762.6	1931	-18.8%	10.2%
3	56.5	706.1	535.3	1932	-35.8%	11.2%
4	56.5	478.8	496.9	1933	-0.9%	18.5%
5	56.5	440.4	619.9	1934	53.2%	4.3%
6	56.5	563.3	550.4	1935	-4.3%	4.3%
7	56.5	493.9	652.5	1936	42.8%	1.1%
8	56.5	595.9	747.3	1937	33.8%	1.1%
9	56.5	690.8	515.9	1938	-33.8%	0.8%
10	56.5	459.4	612.8	1939	45.6%	-2.2%
11	56.5	556.2	525.5	1940	-11.7%	13.7%
12	56.5	469.0	436.3	1941	-10.3%	3.7%
13	56.5	379.7	315.5	1942	-18.8%	-10.7%
14	56.5	258.9	268.8	1943	7.5%	-6.4%
15	56.5	212.2	248.7	1944	23.4%	-0.5%
16	56.5	192.1	217.2	1945	17.3%	1.0%
17	56.5	160.6	203.2	1946	35.1%	1.6%
18	56.5	146.7	116.1	1947	-23.0%	-13.8%
19	56.5	59.5	56.5	1948	-4.0%	-7.4%
20	56.5					

Downward spiral to

SSR% for 20 years Using the 2000 Sequence of Returns
The Withdrawal Rate that ensures a full withdrawal at the end of the 19th year is **5.4%**.

Inputs	
Intial portfolio value	1,000
Constant dollar (C$) withdrawal for spending	**54.0**
Stock Mix (constant)	75%
Total investing cost	0.18%

Portfolio Value at End of Year 19
54.0
0.0

The Safe Withdrawal or Spending Rate will increase with fewer years and decrease with more

Spending Year	Withdrawal for spending in the next year	Portfolio at start of year after withdrawal	Portfolio Value end of year, net of investing cost	Year	Real Return* Stocks	Bonds
1	54.0	946.0	907.7	2000	-8.8%	11.0%
2	54.0	853.7	771.6	2001	-14.2%	4.7%
3	54.0	717.6	618.0	2002	-22.0%	11.3%
4	54.0	564.0	647.5	2003	20.0%	0.0%
5	54.0	593.5	635.5	2004	9.3%	1.3%
6	54.0	581.4	623.4	2005	3.5%	19.0%
7	54.0	569.3	594.9	2006	11.4%	-15.6%
8	54.0	540.9	554.5	2007	2.1%	4.4%
9	54.0	500.4	376.4	2008	-39.3%	19.3%
10	54.0	322.4	378.6	2009	26.6%	-9.2%
11	54.0	324.5	357.3	2010	12.3%	4.2%
12	54.0	303.3	309.8	2011	-0.8%	11.9%
13	54.0	255.8	284.6	2012	14.8%	1.5%
14	54.0	230.5	273.3	2013	27.8%	-8.4%
15	54.0	219.2	247.9	2014	15.0%	8.2%
16	54.0	193.8	195.9	2015	1.3%	1.1%
17	54.0	141.9	150.8	2016	9.5%	-2.5%
18	54.0	96.7	110.1	2017	18.4%	1.0%
19	54.0	56.1	54.0	2018	-3.7%	-2.8%
20	54.0					

Downward spiral to depletion.