

Table A3: Risk-Adjusted Coverage Ratios, 1900–2019

This table shows, for 11 asset allocations with different proportions of stocks (S) and bonds ($100 - S$), over 91 rolling 30-year retirement periods beginning with 1900–1929 and ending with 1990–2019, the risk-adjusted coverage ratio as defined in expression (2) for all the countries in the sample. The analysis is based on a \$1,000 retirement portfolio, a 4% initial withdrawal rate, 30 annual withdrawals adjusted by inflation, and annual rebalancing. The figure highlighted indicates the optimal strategy for each country. The data is described in Table A1.

$S \rightarrow$	100%	90%	80%	70%	60%	50%	40%	30%	20%	10%	0%
Australia	1.55	1.59	1.59	1.57	1.52	1.45	1.38	1.31	1.24	1.20	1.18
Austria	1.09	1.10	1.10	1.09	1.08	1.07	1.07	1.08	1.09	1.12	1.16
Belgium	0.92	0.92	0.94	0.95	0.96	0.99	1.01	1.04	1.07	1.11	1.16
Canada	1.77	1.96	2.08	2.10	1.99	1.82	1.63	1.47	1.32	1.20	1.11
Denmark	1.29	1.22	1.16	1.12	1.08	1.06	1.04	1.04	1.04	1.06	1.09
Finland	0.80	0.82	0.84	0.85	0.86	0.87	0.89	0.91	0.95	1.02	1.15
France	0.83	0.82	0.82	0.82	0.83	0.84	0.86	0.88	0.91	0.94	0.98
Germany	0.49	0.56	0.64	0.73	0.83	0.94	1.04	1.14	1.21	1.28	1.33
Ireland	0.93	0.94	0.95	0.95	0.94	0.94	0.93	0.93	0.94	0.96	1.00
Italy	1.16	1.14	1.12	1.10	1.09	1.08	1.07	1.05	1.02	0.98	0.94
Japan	0.60	0.67	0.77	0.90	1.06	1.27	1.48	1.64	1.67	1.59	1.45
Netherlands	1.10	1.11	1.13	1.14	1.16	1.19	1.23	1.28	1.35	1.44	1.55
N. Zealand	2.09	2.14	2.10	2.01	1.88	1.74	1.61	1.50	1.40	1.31	1.24
Norway	0.85	0.87	0.89	0.91	0.94	0.97	1.01	1.05	1.09	1.13	1.15
Portugal	0.93	0.92	0.91	0.89	0.89	0.90	0.92	0.95	1.01	1.08	1.17
S. Africa	1.67	1.75	1.82	1.86	1.88	1.88	1.86	1.82	1.78	1.75	1.74
Spain	0.69	0.71	0.74	0.77	0.82	0.87	0.93	1.01	1.10	1.19	1.30
Sweden	0.90	0.90	0.89	0.90	0.91	0.93	0.96	1.01	1.07	1.15	1.24
Switzerland	1.54	1.61	1.68	1.76	1.84	1.93	2.02	2.10	2.17	2.21	2.21
U.K.	1.31	1.30	1.28	1.25	1.22	1.19	1.16	1.13	1.12	1.11	1.12
U.S.	1.63	1.79	1.88	1.86	1.78	1.67	1.56	1.46	1.38	1.33	1.30