

Barwert/Endwertfaktoren

Tabelle 2.1: Barwertfaktoren

Kalkulationszinssatz													
Jahre	3%	3,5%	4%	4,5%	5%	5,5%	6%	6,5%	7%	7,5%	8%	8,5%	9%
1	0,9709	0,9662	0,9615	0,9569	0,9524	0,9479	0,9434	0,9390	0,9346	0,9302	0,9259	0,9217	0,9174
2	1,9135	1,8997	1,8861	1,8727	1,8594	1,8463	1,8334	1,8206	1,8080	1,7956	1,7833	1,7711	1,7591
3	2,8286	2,8016	2,7751	2,7490	2,7232	2,6979	2,6730	2,6485	2,6243	2,6005	2,5771	2,5540	2,5313
4	3,7171	3,6731	3,6299	3,5875	3,5460	3,5052	3,4651	3,4258	3,3872	3,3493	3,3121	3,2756	3,2397
5	4,5797	4,5151	4,4518	4,3900	4,3295	4,2703	4,2124	4,1557	4,1002	4,0459	3,9927	3,9406	3,8897
6	5,4172	5,3286	5,2421	5,1579	5,0757	4,9955	4,9173	4,8410	4,7665	4,6938	4,6229	4,5536	4,4859
7	6,2303	6,1145	6,0021	5,8927	5,7864	5,6830	5,5824	5,4845	5,3893	5,2966	5,2064	5,1185	5,0330
8	7,0197	6,8740	6,7327	6,5959	6,4632	6,3346	6,2098	6,0888	5,9713	5,8573	5,7466	5,6392	5,5348
9	7,7861	7,6077	7,4353	7,2688	7,1078	6,9522	6,8017	6,6561	6,5152	6,3789	6,2469	6,1191	5,9952
10	8,5302	8,3166	8,1109	7,9127	7,7217	7,5376	7,3601	7,1888	7,0236	6,8641	6,7101	6,5613	6,4177
11	9,2526	9,0016	8,7605	8,5289	8,3064	8,0925	7,8869	7,6890	7,4987	7,3154	7,1390	6,9690	6,8052
12	9,9540	9,6633	9,3851	9,1186	8,8633	8,6185	8,3838	8,1587	7,9427	7,7353	7,5361	7,3447	7,1607
13	10,6350	10,3027	9,9856	9,6829	9,3936	9,1171	8,8527	8,5997	8,3577	8,1258	7,9038	7,6910	7,4869
14	11,2961	10,9205	10,5631	10,2228	9,8986	9,5896	9,2950	9,0138	8,7455	8,4892	8,2442	8,0101	7,7862
15	11,9379	11,5174	11,1184	10,7395	10,3797	10,0376	9,7122	9,4027	9,1079	8,8271	8,5595	8,3042	8,0607
16	12,5611	12,0941	11,6523	11,2340	10,8378	10,4622	10,1059	9,7678	9,4466	9,1415	8,8514	8,5753	8,3126
17	13,1661	12,6513	12,1657	11,7072	11,2741	10,8646	10,4773	10,1106	9,7632	9,4340	9,1216	8,8252	8,5436
18	13,7535	13,1897	12,6593	12,1600	11,6896	11,2461	10,8276	10,4325	10,0591	9,7060	9,3719	9,0555	8,7556
19	14,3238	13,7098	13,1339	12,5933	12,0853	11,6077	11,1581	10,7347	10,3356	9,9591	9,6036	9,2677	8,9501
20	14,8775	14,2124	13,5903	13,0079	12,4622	11,9504	11,4699	11,0185	10,5940	10,1945	9,8181	9,4633	9,1285
21	15,4150	14,6980	14,0292	13,4047	12,8212	12,2752	11,7641	11,2850	10,8355	10,4135	10,0168	9,6436	9,2922
22	15,9369	15,1671	14,4511	13,7844	13,1630	12,5832	12,0416	11,5352	11,0612	10,6172	10,2007	9,8098	9,4424
23	16,4436	15,6204	14,8568	14,1478	13,4886	12,8750	12,3034	11,7701	11,2722	10,8067	10,3711	9,9629	9,5802
24	16,9355	16,0584	15,2470	14,4955	13,7986	13,1517	12,5504	11,9907	11,4693	10,9830	10,5288	10,1041	9,7066
25	17,4131	16,4815	15,6221	14,8282	14,0939	13,4139	12,7834	12,1979	11,6536	11,1469	10,6748	10,2342	9,8226
26	17,8768	16,8904	15,9828	15,1466	14,3752	13,6625	13,0032	12,3924	11,8258	11,2995	10,8100	10,3541	9,9290
27	18,3270	17,2854	16,3296	15,4513	14,6430	13,8981	13,2105	12,5750	11,9867	11,4414	10,9352	10,4646	10,0266
28	18,7641	17,6670	16,6631	15,7429	14,8981	14,1214	13,4062	12,7465	12,1371	11,5734	11,0511	10,5665	10,1161
29	19,1885	18,0358	16,9837	16,0219	15,1411	14,3331	13,5907	12,9075	12,2777	11,6962	11,1584	10,6603	10,1983
30	19,6004	18,3920	17,2920	16,2889	15,3725	14,5337	13,7648	13,0587	12,4090	11,8104	11,2578	10,7468	10,2737
35	21,4872	20,0007	18,6646	17,4610	16,3742	15,3906	14,4982	13,6870	12,9477	12,2725	11,6546	11,0878	10,5668
40	23,1148	21,3551	19,7928	18,4016	17,1591	16,0461	15,0463	14,1455	13,3317	12,5944	11,9246	11,3145	10,7574
45	24,5187	22,4955	20,7200	19,1563	17,7741	16,5477	15,4558	14,4802	13,6055	12,8186	12,1084	11,4653	10,8812
50	25,7298	23,4556	21,4822	19,7620	18,2559	16,9315	15,7619	14,7245	13,8007	12,9748	12,2335	11,5656	10,9617
55	26,7744	24,2641	22,1086	20,2480	18,6335	17,2252	15,9905	14,9028	13,9399	13,0836	12,3186	11,6323	11,0140
60	27,6756	24,9447	22,6235	20,6380	18,9293	17,4499	16,1614	15,0330	14,0392	13,1594	12,3766	11,6766	11,0480
65	28,4529	25,5178	23,0467	20,9510	19,1611	17,6218	16,2891	15,1280	14,1099	13,2122	12,4160	11,7061	11,0701
70	29,1234	26,0004	23,3945	21,2021	19,3427	17,7533	16,3845	15,1973	14,1604	13,2489	12,4428	11,7258	11,0844

Tabelle 2.2: Korrekturfaktoren für Barwerte ($i = \text{Zinssatz } p/100$)

Sofern die laufenden Zahlungen nicht zum Ende des Jahres fällig sind, kann dies durch Multiplikation des Barwertes mit einem Korrekturfaktor berücksichtigt werden:

Fälligkeit	Korrekturfaktor	z. B. 6 %
zu Beginn eines Jahres	$1 + i$	1,06
zu Beginn eines Vierteljahres	$1 + 5/8i$	1,0375
Mitte jedes Vierteljahres	$1 + 1/2i$	1,03
Ende jedes Vierteljahres	$1 + 3/8i$	1,0225
Beginn jeden Monats	$1 + 13/24i$	1,0325
Ende jeden Monats	$1 + 11/24i$	1,0275

Tabelle 2.3: Endwertfaktoren

Mit dem Endwertfaktor wird eine betragsgleiche laufende jährliche Zahlung auf ein zukünftiges Jahr hin aufgezinnt

Kalkulationszinssatz

Jahre	3%	3,5%	4%	4,5%	5%	5,5%	6%	6,5%	7%	7,5%	8%	8,5%	9%
1	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000
2	2,0300	2,0350	2,0400	2,0450	2,0500	2,0550	2,0600	2,0650	2,0700	2,0750	2,0800	2,0850	2,0900
3	3,0909	3,1062	3,1216	3,1370	3,1525	3,1680	3,1836	3,1992	3,2149	3,2306	3,2464	3,2622	3,2781
4	4,1836	4,2149	4,2465	4,2782	4,3101	4,3423	4,3746	4,4072	4,4399	4,4729	4,5061	4,5395	4,5731
5	5,3091	5,3625	5,4163	5,4707	5,5256	5,5811	5,6371	5,6936	5,7507	5,8084	5,8666	5,9254	5,9847
6	6,4684	6,5502	6,6330	6,7169	6,8019	6,8881	6,9753	7,0637	7,1533	7,2440	7,3359	7,4290	7,5233
7	7,6625	7,7794	7,8983	8,0192	8,1420	8,2669	8,3938	8,5229	8,6540	8,7873	8,9228	9,0605	9,2004
8	8,8923	9,0517	9,2142	9,3800	9,5491	9,7216	9,8975	10,0769	10,2598	10,4464	10,6366	10,8306	11,0285
9	10,1591	10,3685	10,5828	10,8021	11,0266	11,2563	11,4913	11,7319	11,9780	12,2298	12,4876	12,7512	13,0210
10	11,4639	11,7314	12,0061	12,2882	12,5779	12,8754	13,1808	13,4944	13,8164	14,1471	14,4866	14,8351	15,1929
11	12,8078	13,1420	13,4864	13,8412	14,2068	14,5835	14,9716	15,3716	15,7836	16,2081	16,6455	17,0961	17,5603
12	14,1920	14,6020	15,0258	15,4640	15,9171	16,3856	16,8699	17,3707	17,8885	18,4237	18,9771	19,5492	20,1407
13	15,6178	16,1130	16,6268	17,1599	17,7130	18,2868	18,8821	19,4998	20,1406	20,8055	21,4953	22,2109	22,9534
14	17,0863	17,6770	18,2919	18,9321	19,5986	20,2926	21,0151	21,7673	22,5505	23,3659	24,2149	25,0989	26,0192
15	18,5989	19,2957	20,0236	20,7841	21,5786	22,4087	23,2760	24,1822	25,1290	26,1184	27,1521	28,2323	29,3609
16	20,1569	20,9710	21,8245	22,7193	23,6575	24,6411	25,6725	26,7540	27,8881	29,0772	30,3243	31,6320	33,0034
17	21,7616	22,7050	23,6975	24,7417	25,8404	26,9964	28,2129	29,4930	30,8402	32,2580	33,7502	35,3207	36,9737
18	23,4144	24,4997	25,6454	26,8551	28,1324	29,4812	30,9057	32,4101	33,9990	35,6774	37,4502	39,3230	41,3013
19	25,1169	26,3572	27,6712	29,0636	30,5390	32,1027	33,7600	35,5167	37,3790	39,3532	41,4463	43,6654	46,0185
20	26,8704	28,2797	29,7781	31,3714	33,0660	34,8683	36,7856	38,8253	40,9955	43,3047	45,7620	48,3770	51,1601