

Contribution from Dr Jitka Rychtarikova

vik	qx	px	lx	dx	Lx_1	Tx	ex
0	4.81E-03	9.95E-01	100000	481.0665609	99557.41876	7139544.205	71.39544205
1	5.61E-04	9.99E-01	99518.93344	55.80821762	99491.02933	7039986.787	70.74017519
2	2.81E-04	1.00E+00	99463.12522	27.93998551	99449.15523	6940495.757	69.77958657
3	1.89E-04	1.00E+00	99435.18524	18.78439311	99425.79304	6841046.602	68.79905323
4	1.65E-04	1.00E+00	99416.40084	16.42596532	99408.18786	6741620.809	67.81195811
5	1.82E-04	1.00E+00	99399.97488	18.12173887	99390.91401	6642212.621	66.82308149
6	2.07E-04	1.00E+00	99381.85314	20.58185981	99371.56221	6542821.707	65.83517514
7	2.00E-04	1.00E+00	99361.27128	19.87482464	99351.33387	6443450.145	64.84870878
8	2.10E-04	1.00E+00	99341.39645	20.88650236	99330.9532	6344098.811	63.86158276
9	2.02E-04	1.00E+00	99320.50995	20.07083874	99310.47453	6244767.858	62.87490732
10	1.94E-04	1.00E+00	99300.43911	19.28784329	99290.79519	6145457.383	61.88751468
11	2.31E-04	1.00E+00	99281.15127	22.92952331	99269.68651	6046166.588	60.89944074
12	2.32E-04	1.00E+00	99258.22175	23.02483069	99246.70933	5946896.902	59.91339354
13	2.50E-04	1.00E+00	99235.19692	24.76795459	99222.81294	5847650.192	58.9271788
14	2.73E-04	1.00E+00	99210.42896	27.06244581	99196.89774	5748427.379	57.94176519
15	3.69E-04	1.00E+00	99183.36652	36.59472744	99165.06915	5649230.482	56.95743833
16	5.22E-04	9.99E-01	99146.77179	51.75011208	99120.89673	5550065.412	55.97827657
17	7.38E-04	9.99E-01	99095.02168	73.1394725	99058.45194	5450944.516	55.00724884
18	8.51E-04	9.99E-01	99021.8822	84.31497672	98979.72472	5351886.064	54.04750894
19	9.55E-04	9.99E-01	98937.56723	94.46208417	98890.33618	5252906.339	53.09314234
20	1.01E-03	9.99E-01	98843.10514	99.77245763	98793.21891	5154016.003	52.14340439
21	1.00E-03	9.99E-01	98743.33268	98.84611132	98693.90963	5055222.784	51.19558604
22	1.05E-03	9.99E-01	98644.48657	103.5865175	98592.69331	4956528.874	50.24638524
23	1.09E-03	9.99E-01	98540.90006	106.984354	98487.40788	4857936.181	49.29867881
24	1.06E-03	9.99E-01	98433.9157	104.7739683	98381.52872	4759448.773	48.35171637
25	1.00E-03	9.99E-01	98329.14173	98.32675789	98279.97835	4661067.244	47.40270445
26	1.04E-03	9.99E-01	98230.81498	102.1081879	98179.76088	4562787.266	46.44965297
27	1.02E-03	9.99E-01	98128.70679	99.92789859	98078.74284	4464607.505	45.49746605
28	1.08E-03	9.99E-01	98028.77889	106.2391634	97975.65931	4366528.762	44.54333525
29	1.21E-03	9.99E-01	97922.53973	118.0071376	97863.53616	4268553.103	43.59111922
30	1.24E-03	9.99E-01	97804.53259	121.406021	97743.82958	4170689.567	42.64311128
31	1.23E-03	9.99E-01	97683.12657	120.3143894	97622.96937	4072945.737	41.69548908
32	1.32E-03	9.99E-01	97562.81218	128.47555	97498.5744	3975322.768	40.74629133
33	1.37E-03	9.99E-01	97434.33663	133.1984743	97367.73739	3877824.194	39.79935953
34	1.41E-03	9.99E-01	97301.13815	136.917446	97232.67943	3780456.456	38.85315761
35	1.55E-03	9.98E-01	97164.22071	150.7303323	97088.85554	3683223.777	37.90720236
36	1.65E-03	9.98E-01	97013.49038	160.5120308	96933.23436	3586134.921	36.96532211
37	1.81E-03	9.98E-01	96852.97834	175.0951892	96765.43075	3489201.687	36.02575519
38	1.98E-03	9.98E-01	96677.88316	191.061623	96582.35234	3392436.256	35.09090657
39	2.18E-03	9.98E-01	96486.82153	210.3006342	96381.67122	3295853.904	34.15859131
40	2.48E-03	9.98E-01	96276.5209	239.2045676	96156.91861	3199472.233	33.23211311
41	2.81E-03	9.97E-01	96037.31633	269.8654563	95902.3836	3103315.314	32.31364049
42	3.17E-03	9.97E-01	95767.45087	303.6288453	95615.63645	3007412.93	31.40328893
43	3.56E-03	9.96E-01	95463.82203	339.6254216	95294.00932	2911797.294	30.50157884
44	3.85E-03	9.96E-01	95124.19661	366.091709	94941.15075	2816503.285	29.60869458
45	4.25E-03	9.96E-01	94758.1049	403.0663551	94556.57172	2721562.134	28.72115411
46	4.89E-03	9.95E-01	94355.03854	461.7025011	94124.18729	2627005.562	27.84170938
47	5.59E-03	9.94E-01	93893.33604	525.1896385	93630.74122	2532881.375	26.976157
48	6.14E-03	9.94E-01	93368.1464	573.5485021	93081.37215	2439250.634	26.12508363
49	6.75E-03	9.93E-01	92794.5979	626.215902	92481.48995	2346169.261	25.28346816
50	7.45E-03	9.93E-01	92168.382	686.7330969	91825.01545	2253687.771	24.45185347
51	8.25E-03	9.92E-01	91481.6489	754.7366418	91104.28058	2161862.756	23.63165489
52	9.02E-03	9.91E-01	90726.91226	817.9668436	90317.92884	2070758.475	22.82408189
53	1.01E-02	9.90E-01	89908.94542	911.7875412	89453.05165	1980440.547	22.02718025
54	1.08E-02	9.89E-01	88997.15788	959.5993757	88517.35819	1890987.495	21.24772903
55	1.19E-02	9.88E-01	88037.5585	1049.66424	87512.72638	1802470.137	20.47387692
56	1.32E-02	9.87E-01	86987.89426	1146.383018	86414.70275	1714957.41	19.7148974
57	1.46E-02	9.85E-01	85841.51124	1254.292307	85214.36509	1628542.708	18.97150556
58	1.62E-02	9.84E-01	84587.21894	1369.388626	83902.52462	1543328.343	18.24540825
59	1.79E-02	9.82E-01	83217.83031	1485.598056	82475.03128	1459425.818	17.53741731
60	1.95E-02	9.81E-01	81732.23225	1590.017336	80937.22359	1376950.787	16.84709629
61	2.15E-02	9.79E-01	80142.21492	1719.96659	79282.23162	1296013.563	16.17142182
62	2.30E-02	9.77E-01	78422.24833	1804.792878	77519.85189	1216731.331	15.51512941
63	2.46E-02	9.75E-01	76617.45545	1881.399353	75676.75577	1139211.48	14.86882425
64	2.64E-02	9.74E-01	74736.0561	1970.407151	73750.85252	1063534.724	14.23054385
65	2.78E-02	9.72E-01	72765.64894	2023.370123	71753.96388	989783.8712	13.60235064
66	3.03E-02	9.70E-01	70742.27882	2141.647819	69671.45491	918029.9074	12.97710397
67	3.30E-02	9.67E-01	68600.631	2261.892016	67469.68499	848358.4524	12.36662754
68	3.58E-02	9.64E-01	66338.73899	2373.575969	65151.951	780888.7674	11.77123321
69	3.90E-02	9.61E-01	63965.16302	2491.9827	62719.17167	715736.8164	11.1894785
70	4.26E-02	9.57E-01	61473.18032	2616.663382	60164.84863	653017.6448	10.62280561
71	4.65E-02	9.53E-01	58856.51694	2738.19141	57487.42123	592852.7961	10.0728488
72	5.17E-02	9.48E-01	56118.32553	2903.568139	54666.54146	535365.3749	9.539938512
73	5.67E-02	9.43E-01	53214.75739	3017.708588	51705.90309	480698.8335	9.033186602
74	6.18E-02	9.38E-01	50197.0488	3101.14727	48646.47516	428992.9304	8.546178324
75	6.82E-02	9.32E-01	47095.90153	3212.095679	45489.85369	380346.4552	8.075999033
76	7.37E-02	9.26E-01	43883.80585	3232.174172	42267.71876	334856.6015	7.630527823
77	8.19E-02	9.18E-01	40651.63168	3329.051712	38987.10582	292588.8827	7.197469589
78	8.75E-02	9.12E-01	37322.57997	3266.715359	35689.22229	253601.7769	6.794861908

79	9.35E-02	9.06E-01	34055.86461	3185.247666	32463.24077	217912.5546	6.398679263
80	1.03E-01	8.97E-01	30870.61694	3172.182248	29284.52582	185449.3139	6.007308316
81	1.11E-01	8.89E-01	27698.43469	3065.528295	26165.67055	156164.788	5.638036581
82	1.21E-01	8.79E-01	24632.9064	2976.600922	23144.60594	129999.1175	5.277457536
83	1.33E-01	8.67E-01	21656.30548	2875.724098	20218.44343	106854.5116	4.934106221
84	1.45E-01	8.55E-01	18780.58138	2724.663994	17418.24938	86636.06814	4.613066358
85	1.57E-01	8.43E-01	16055.91738	2523.737969	14794.0484	69217.81876	4.311047267
86	1.71E-01	8.29E-01	13532.17941	2313.497024	12375.4309	54423.77036	4.021803783
87	1.86E-01	8.14E-01	11218.68239	2084.821018	10176.27188	42048.33946	3.748063988
88	2.02E-01	7.98E-01	9133.861372	1843.763372	8211.979686	31872.06758	3.489440695
89	2.19E-01	7.81E-01	7290.098	1597.23396	6491.48102	23660.08789	3.245510265
90	2.38E-01	7.62E-01	5692.864041	1352.605615	5016.561233	17168.60687	3.015811856
91	2.57E-01	7.43E-01	4340.258425	1117.222948	3781.646951	12152.04564	2.799843799
92	2.79E-01	7.21E-01	3223.035477	897.8571668	2774.106894	8370.398687	2.597054468
93	3.01E-01	6.99E-01	2325.17831	700.1692451	1975.093688	5596.291793	2.406822637
94	3.25E-01	6.75E-01	1625.009065	528.2551207	1360.881505	3621.198105	2.228417172
95	3.50E-01	6.50E-01	1096.753944	384.3455317	904.5811785	2260.316601	2.06091495
96	3.77E-01	6.23E-01	712.4084127	268.7162741	578.0502757	1355.735422	1.90303118
97	4.05E-01	5.95E-01	443.6921386	179.8322938	353.7759917	777.6851464	1.752758453
98	4.35E-01	5.65E-01	263.8598448	114.7063015	206.506694	423.9091547	1.606569408
99	4.65E-01	5.35E-01	149.1535433	69.40938233	114.4488521	217.4024607	1.457574898
100	4.97E-01	5.03E-01	79.74416096	39.63966066	59.92433064	102.9536085	1.291048866
101	5.30E-01	4.70E-01	40.10450031	21.24601881	29.4814909	43.02927791	1.072928913
102	5.63E-01	4.37E-01	18.8584815	10.62138897	13.54778701	13.54778701	0.718392253
103	5.97E-01	4.03E-01	8.237092525	8.237092525	0	0	0

vik	qx	px	lx	dx	Lx_1	Tx	ex
0.00E+00	4.39E-03	9.96E-01	100000	438.9768416	99596.14131	7812748.945	78.12748945
1.00E+00	3.88E-04	1.00E+00	99561.02316	38.59526315	99541.72553	7713152.804	77.47161046
2.00E+00	2.05E-04	1.00E+00	99522.4279	20.42346854	99512.21616	7613611.078	76.50146041
3.00E+00	1.77E-04	1.00E+00	99502.00443	17.62774395	99493.19055	7514098.862	75.51706024
4.00E+00	1.08E-04	1.00E+00	99484.37668	10.77618533	99478.98859	7414605.671	74.53035259
5.00E+00	1.13E-04	1.00E+00	99473.6005	11.27010647	99467.96544	7315126.683	73.53837245
6.00E+00	1.67E-04	1.00E+00	99462.33039	16.62211735	99454.01933	7215658.717	72.54664845
7.00E+00	2.05E-04	1.00E+00	99445.70827	20.39925724	99435.50864	7116204.698	71.55869088
8.00E+00	2.33E-04	1.00E+00	99425.30902	23.21335919	99413.70234	7016769.189	70.57327011
9.00E+00	2.17E-04	1.00E+00	99402.09566	21.58109554	99391.30511	6917355.487	69.58963431
1.00E+01	1.58E-04	1.00E+00	99380.51456	15.73414053	99372.64749	6817964.182	68.60463756
1.10E+01	1.19E-04	1.00E+00	99364.78042	11.83053076	99358.86516	6718591.534	67.61542174
1.20E+01	1.25E-04	1.00E+00	99352.94989	12.41487842	99346.74245	6619232.669	66.62341356
1.30E+01	1.02E-04	1.00E+00	99340.53501	10.08582271	99335.4921	6519885.927	65.6316772
1.40E+01	1.19E-04	1.00E+00	99330.44919	11.85094333	99324.52372	6420550.435	64.63829054
1.50E+01	1.64E-04	1.00E+00	99318.59825	16.30796849	99310.44426	6321225.911	63.64594369
1.60E+01	2.34E-04	1.00E+00	99302.29028	23.24268821	99290.66893	6221915.467	62.65631386
1.70E+01	2.96E-04	1.00E+00	99279.04759	29.34450557	99264.37534	6122624.798	61.67086557
1.80E+01	3.36E-04	1.00E+00	99249.70308	33.35011376	99233.02803	6023360.422	60.68895156
1.90E+01	3.11E-04	1.00E+00	99216.35297	30.83346773	99200.93624	5924127.394	59.70918318
2.00E+01	3.02E-04	1.00E+00	99185.5195	29.92203666	99170.55848	5824926.458	58.72758934
2.10E+01	3.21E-04	1.00E+00	99155.59747	31.84463246	99139.67515	5725755.9	57.7451606
2.20E+01	3.41E-04	1.00E+00	99123.75283	33.77393195	99106.86587	5626616.224	56.76355125
2.30E+01	3.17E-04	1.00E+00	99089.9789	31.41655626	99074.27062	5527509.359	55.78272818
2.40E+01	3.00E-04	1.00E+00	99058.56234	29.66877973	99043.72795	5428435.088	54.80026117
2.50E+01	2.79E-04	1.00E+00	99028.89357	27.58624853	99015.10044	5329391.36	53.81652938
2.60E+01	3.23E-04	1.00E+00	99001.30732	31.99463791	98985.31	5230376.26	52.83138578
2.70E+01	3.36E-04	1.00E+00	98969.31268	33.23820337	98952.69358	5131390.95	51.84830339
2.80E+01	3.78E-04	1.00E+00	98936.07448	37.39956098	98917.37469	5032438.256	50.86555417
2.90E+01	4.01E-04	1.00E+00	98898.67491	39.694562	98878.82763	4933520.881	49.88460043
3.00E+01	4.07E-04	1.00E+00	98858.98035	40.23476846	98838.86297	4834642.054	48.90442969
3.10E+01	4.08E-04	1.00E+00	98818.74558	40.33345625	98798.57886	4735803.191	47.9241379
3.20E+01	4.10E-04	1.00E+00	98778.41213	40.52950585	98758.14737	4637004.612	46.94350225
3.30E+01	4.36E-04	1.00E+00	98737.88262	43.07936668	98716.34294	4538246.464	45.96256618
3.40E+01	5.56E-04	9.99E-01	98694.80325	54.87438811	98667.36606	4439530.122	44.98241017
3.50E+01	6.11E-04	9.99E-01	98639.92887	60.27213993	98609.7928	4340862.755	44.00715618
3.60E+01	6.79E-04	9.99E-01	98579.65673	66.89422848	98546.20961	4242252.963	43.0337567
3.70E+01	7.60E-04	9.99E-01	98512.7625	74.84852646	98475.33824	4143706.753	42.06263887
3.80E+01	7.79E-04	9.99E-01	98437.91397	76.69677871	98399.56558	4045231.415	41.09424155
3.90E+01	8.70E-04	9.99E-01	98361.21719	85.57396211	98318.43021	3946831.849	40.12589476
4.00E+01	1.06E-03	9.99E-01	98275.64323	104.4723533	98223.40705	3848513.419	39.16039918
4.10E+01	1.14E-03	9.99E-01	98171.17088	112.2960535	98115.02285	3750290.012	38.20154103
4.20E+01	1.31E-03	9.99E-01	98058.87482	128.5810228	97994.58431	3652174.989	37.24471646
4.30E+01	1.46E-03	9.99E-01	97930.2938	143.2641742	97858.66171	3554180.405	36.29296173
4.40E+01	1.63E-03	9.98E-01	97787.02963	159.3459038	97707.35668	3456321.743	35.34540068
4.50E+01	1.83E-03	9.98E-01	97627.68372	178.1767193	97538.59536	3358614.386	34.40227462
4.60E+01	2.06E-03	9.98E-01	97449.507	200.8758377	97349.06909	3261075.791	33.46426156
4.70E+01	2.35E-03	9.98E-01	97248.63117	228.6138039	97134.32426	3163726.722	32.53235222
4.80E+01	2.56E-03	9.97E-01	97020.01736	248.7242192	96895.65525	3066592.398	31.60783188
4.90E+01	2.86E-03	9.97E-01	96771.29314	276.5286869	96633.0288	2969696.742	30.68778608
5.00E+01	3.11E-03	9.97E-01	96494.76446	300.1591853	96344.68486	2873063.714	29.77429636
5.10E+01	3.45E-03	9.97E-01	96194.60527	331.5484358	96028.83105	2776719.029	28.8656419
5.20E+01	3.78E-03	9.96E-01	95863.05684	362.0001496	95682.05676	2680690.198	27.96374627
5.30E+01	4.30E-03	9.96E-01	95501.05669	410.5954489	95295.75896	2585008.141	27.06784857
5.40E+01	4.62E-03	9.95E-01	95090.46124	439.079788	94870.92134	2489712.382	26.1825671
5.50E+01	5.14E-03	9.95E-01	94651.38145	486.2101451	94408.27638	2394841.461	25.30170637
5.60E+01	5.47E-03	9.95E-01	94165.1713	515.192199	93907.5752	2300433.184	24.42976689
5.70E+01	5.91E-03	9.94E-01	93649.9791	553.2065478	93373.37583	2206525.609	23.56141059
5.80E+01	6.32E-03	9.94E-01	93096.77256	588.493699	92802.52571	2113152.233	22.69844781
5.90E+01	6.97E-03	9.93E-01	92508.27886	644.5735048	92185.99211	2020349.708	21.83966378
6.00E+01	7.70E-03	9.92E-01	91863.70535	707.0910424	91510.15983	1928163.715	20.98939628
6.10E+01	8.53E-03	9.91E-01	91156.61431	777.7975367	90767.71554	1836653.556	20.1483301
6.20E+01	9.46E-03	9.91E-01	90378.81677	855.1007844	89951.26638	1745885.84	19.31742307
6.30E+01	1.09E-02	9.89E-01	89523.71599	974.0289086	89036.70154	1655934.574	18.49716084
6.40E+01	1.23E-02	9.88E-01	88549.68708	1088.624606	88005.37478	1566897.872	17.69512602
6.50E+01	1.36E-02	9.86E-01	87461.06248	1190.949002	86865.58797	1478892.497	16.90915312
6.60E+01	1.49E-02	9.85E-01	86270.11347	1285.697309	85627.26482	1392026.909	16.13567959
6.70E+01	1.62E-02	9.84E-01	84984.41616	1377.266328	84295.783	1306399.645	15.37222592
6.80E+01	1.78E-02	9.82E-01	83607.14984	1487.895432	82863.20212	1222103.862	14.61721712
6.90E+01	2.00E-02	9.80E-01	82119.2544	1643.741135	81297.38384	1139240.659	13.87300296
7.00E+01	2.30E-02	9.77E-01	80475.51327	1852.337773	79549.34438	1057943.276	13.14615133
7.10E+01	2.61E-02	9.74E-01	78623.1755	2055.535558	77595.40772	978393.9313	12.44409075
7.20E+01	2.91E-02	9.71E-01	76567.63994	2229.661338	75452.80927	900798.5235	11.76474192
7.30E+01	3.25E-02	9.67E-01	74337.9786	2418.129369	73128.91392	825345.7143	11.10261174
7.40E+01	3.62E-02	9.64E-01	71919.84923	2601.651797	70619.02333	752216.8004	10.45909868
7.50E+01	4.06E-02	9.59E-01	69318.19743	2811.65851	67912.36818	681597.777	9.832883748
7.60E+01	4.57E-02	9.54E-01	66506.53892	3036.079564	64988.49914	613685.4088	9.227444681
7.70E+01	5.15E-02	9.48E-01	63470.45936	3271.635699	61834.64151	548696.9097	8.644917891
7.80E+01	5.76E-02	9.42E-01	60198.82366	3466.329168	58465.65908	486862.2682	8.087571128

7.90E+01	6.41E-02	9.36E-01	56732.49449	3637.84896	54913.57001	428396.6091	7.551168214
8.00E+01	7.18E-02	9.28E-01	53094.64553	3812.284398	51188.50333	373483.0391	7.03428821
8.10E+01	8.05E-02	9.20E-01	49282.36113	3965.33311	47299.69458	322294.5358	6.539754353
8.20E+01	9.01E-02	9.10E-01	45317.02802	4084.632232	43274.71191	274994.8412	6.068245275
8.30E+01	1.01E-01	8.99E-01	41232.39579	4161.408568	39151.69151	231720.1293	5.619856058
8.40E+01	1.13E-01	8.87E-01	37070.98722	4187.045142	34977.46465	192568.4378	5.194586176
8.50E+01	1.26E-01	8.74E-01	32883.94208	4153.766232	30807.05897	157590.9731	4.79233824
8.60E+01	1.41E-01	8.59E-01	28730.17585	4055.477965	26702.43687	126783.9142	4.412918139
8.70E+01	1.58E-01	8.42E-01	24674.69789	3888.712521	22730.34163	100081.4773	4.056036582
8.80E+01	1.76E-01	8.24E-01	20785.98536	3653.578872	18959.19593	77351.13566	3.721311947
8.90E+01	1.96E-01	8.04E-01	17132.40649	3354.574231	15455.11938	58391.93973	3.408274241
9.00E+01	2.18E-01	7.82E-01	13777.83226	3001.069775	12277.29737	42936.82035	3.116369799
9.10E+01	2.42E-01	7.58E-01	10776.76249	2607.269041	9473.127966	30659.52298	2.844966011
9.20E+01	2.68E-01	7.32E-01	8169.493445	2191.46865	7073.75912	21186.39501	2.593354797
9.30E+01	2.97E-01	7.03E-01	5978.024795	1774.545716	5090.751937	14112.63589	2.360752318
9.40E+01	3.28E-01	6.72E-01	4203.479079	1377.757973	3514.600093	9021.883956	2.146289725
9.50E+01	3.61E-01	6.39E-01	2825.721106	1020.148192	2315.64701	5507.283863	1.948983518
9.60E+01	3.97E-01	6.03E-01	1805.572914	716.0378931	1447.553968	3191.636853	1.767658801
9.70E+01	4.34E-01	5.66E-01	1089.535021	473.1944982	852.9377719	1744.082885	1.600758903
9.80E+01	4.74E-01	5.26E-01	616.3405228	292.1816134	470.2497161	891.1451131	1.445864875
9.90E+01	5.16E-01	4.84E-01	324.1589094	167.1239704	240.5969242	420.895397	1.298423041
1.00E+02	5.58E-01	4.42E-01	157.034939	87.6989028	113.1854876	180.2984727	1.148142406
1.01E+02	6.02E-01	3.98E-01	69.33603619	41.76312108	48.45447565	67.11298515	0.967938014
1.02E+02	6.47E-01	3.53E-01	27.57291511	17.82881124	18.65850949	18.65850949	0.67669702
1.03E+02	6.91E-01	3.09E-01	9.744103876	9.744103876	0	0	0