

Contribution from Dr Jitka Rychtarikova

vik	qx	px	lx	dx	Lx_1	Tx	ex
0	0.021722376	0.978277624	100000	2172.237614	98001.54139	6709797.842	67.09797842
1	0.000980508	0.999019492	97827.76239	95.92094709	97779.80191	6611796.3	67.58609355
2	0.000654291	0.999345709	97731.84144	63.94510234	97699.86889	6514016.498	66.65193659
3	0.000586022	0.999413978	97667.89634	57.23550108	97639.27859	6416316.629	65.69524757
4	0.00042221	0.99957779	97610.66084	41.21219989	97590.05474	6318677.351	64.7334758
5	0.000427489	0.999572511	97569.44864	41.70982453	97548.59372	6221087.296	63.76060727
6	0.000449452	0.999550548	97527.73881	43.83403342	97505.82179	6123538.702	62.78766202
7	0.000464428	0.999535572	97483.90478	45.2742599	97461.26765	6026032.881	61.81566992
8	0.000449074	0.999550926	97438.63052	43.75717069	97416.75193	5928571.613	60.84415987
9	0.000436441	0.999563559	97394.87335	42.50712935	97373.61978	5831154.861	59.87127105
10	0.000419744	0.999580256	97352.36622	40.86305958	97331.93469	5733781.241	58.89719443
11	0.000415412	0.999584588	97311.50316	40.42440804	97291.29095	5636449.307	57.92171659
12	0.000425073	0.999574927	97271.07875	41.34726197	97250.40512	5539158.016	56.9455802
13	0.000384712	0.999615288	97229.73149	37.40540404	97211.02879	5441907.611	55.96958386
14	0.000409869	0.999590131	97192.32608	39.83611248	97172.40803	5344696.582	54.99093187
15	0.000488875	0.999511125	97152.48997	47.49539779	97128.74227	5247524.174	54.01327516
16	0.000721577	0.999278423	97104.99457	70.06876666	97069.96019	5150395.431	53.03944925
17	0.00096623	0.99903377	97034.92581	93.75804337	96988.04679	5053325.471	52.0773879
18	0.001195757	0.998804243	96941.16776	115.9181119	96883.20871	4956337.424	51.12727171
19	0.001355295	0.998644705	96825.24965	131.2268204	96759.63624	4859454.216	50.18788212
20	0.001406183	0.998593817	96694.02283	135.9695361	96626.03806	4762694.58	49.25531527
21	0.001415338	0.99858462	96558.05329	136.6663446	96489.72012	4660688.541	48.32397073
22	0.001479114	0.998520886	96421.38695	142.6182385	96350.07783	4569578.821	47.39175577
23	0.001494528	0.998505472	96278.76871	143.891289	96206.82307	4473228.744	46.46121677
24	0.001513062	0.998486938	96134.87742	145.4580764	96062.14838	4377021.92	45.5300099
25	0.001512418	0.998487582	95989.41935	145.1761526	95916.83127	4280959.772	44.59824636
26	0.001399653	0.998600347	95844.24319	134.1487007	95777.16884	4185042.941	43.66504238
27	0.001347538	0.998652462	95710.09449	128.972994	95645.608	4089265.772	42.72554315
28	0.001358145	0.998641855	95581.1215	129.8130153	95516.21499	3993620.164	41.78252045
29	0.001438338	0.998561662	95451.30848	137.2912079	95382.66288	3898103.949	40.83866435
30	0.001599004	0.998400996	95314.01728	152.407503	95237.81352	3802721.286	39.89676854
31	0.001695657	0.998304343	95161.60977	161.3614408	95080.92905	3707483.473	38.95986503
32	0.00163574	0.99836426	95000.24833	155.39575	94922.55046	3612402.543	38.02519053
33	0.001657492	0.998342508	94844.85258	157.20457	94766.2503	3517479.993	37.08667257
34	0.001758804	0.998241196	94687.64801	166.5370078	94604.37951	3422713.743	36.14741537
35	0.001989775	0.998010225	94521.111	188.075714	94427.07315	3328109.363	35.21022265
36	0.002246235	0.997753765	94333.03529	211.8941446	94227.08822	3233682.29	34.27942587
37	0.002487992	0.997512008	94121.14115	234.1726755	94004.05481	3139455.202	33.35547321
38	0.002610265	0.997389735	93886.96847	245.0698813	93764.43353	3045451.147	32.43742126
39	0.002860861	0.997139139	93641.89859	267.8964354	93507.95037	2951686.714	31.52100457
40	0.003083643	0.996916357	93374.00215	287.9320643	93230.03612	2858178.763	30.61000597
41	0.003673961	0.996326039	93086.07009	341.9945576	92915.07281	2764948.727	29.70314167
42	0.004058824	0.995941176	92744.07553	376.4319243	92555.85957	2672033.654	28.8108285
43	0.004475017	0.995524983	92367.64361	413.3468049	92160.9702	2579477.795	27.92620548
44	0.004891582	0.995108418	91954.2968	449.8019877	91729.39581	2487316.824	27.04948992
45	0.005299779	0.994700221	91504.49481	484.9536184	91262.01801	2395587.429	26.17999732
46	0.005644706	0.994355294	91019.5412	513.7785106	90762.65194	2304325.411	25.31682077
47	0.00649994	0.993500006	90505.76269	588.2820258	90211.62167	2213562.759	24.45769963
48	0.007358466	0.992641534	89917.48066	661.6547542	89586.65328	2123351.137	23.61444206
49	0.008464897	0.991535103	89255.82591	755.5413664	88878.05522	2033764.484	22.78578976
50	0.009499505	0.990500495	88500.28454	840.708934	88079.93007	1944886.429	21.97604718
51	0.010430617	0.989569383	87659.57561	914.3434988	87202.40386	1856806.498	21.18201561
52	0.011142523	0.988857477	86745.23211	966.5607249	86261.95174	1769604.095	20.40001567
53	0.012096418	0.987903582	85778.67138	1037.61466	85259.86405	1683342.143	19.62425059
54	0.013781384	0.986218616	84741.05672	1167.849008	84157.13222	1598082.279	18.85841811
55	0.015527385	0.984472615	83573.20771	1297.67336	82924.37103	1513925.147	18.11495799
56	0.01656461	0.98343539	82275.53435	1362.862122	81594.10329	1431000.776	17.39278616
57	0.017913648	0.982086352	80912.67223	1449.441163	80187.95165	1349406.672	16.6773218
58	0.018736394	0.981263606	79463.23107	1488.854442	78718.80385	1269218.721	15.97240263
59	0.020559884	0.979440116	77974.37662	1603.144153	77172.80455	1190499.917	15.267835
60	0.02290839	0.97709161	76371.23247	1749.541995	75496.46147	1113327.112	14.57783351
61	0.025289875	0.974710125	74621.69048	1887.173214	73678.10387	1037830.651	13.9078952
62	0.027307041	0.972692959	72734.51726	1986.164442	71741.43504	964152.5469	13.25577708
63	0.029907907	0.970092093	70748.35282	2115.935132	69690.38526	892411.1118	12.61387829
64	0.032657263	0.967342737	68632.41769	2241.346903	67511.74424	822720.7266	11.98734875
65	0.036408732	0.963591268	66391.07079	2417.214697	65182.46344	755208.9823	11.37515894
66	0.040627628	0.959372372	63973.85609	2599.106036	62674.30307	690026.5189	10.78607045
67	0.045368938	0.954631062	61374.75005	2784.507249	59982.49643	627352.2158	10.22166633
68	0.050546729	0.949453271	58590.2428	2961.545096	57109.47026	567369.7194	9.683689506
69	0.056352493	0.943647507	55628.69771	3134.815781	54061.28982	510260.2491	9.172608207
70	0.062086013	0.937913987	52493.88193	3259.13586	50864.314	456198.9593	8.690516734
71	0.067558158	0.932441842	49234.74607	3326.208777	47571.64168	405334.6453	8.23269495
72	0.073052153	0.926947847	45908.53729	3353.7175	44231.67854	357763.0036	7.792951481
73	0.078682979	0.921317021	42554.81979	3348.339995	40880.64979	313531.3251	7.367704214
74	0.085971646	0.914028354	39206.47979	3370.64561	37521.15699	272650.6753	6.954224831
75	0.093573171	0.906426829	35835.83418	3353.272648	34159.19786	235129.5183	6.561296079
76	0.100941741	0.899058259	32482.56154	3278.846325	30843.13837	200970.3205	6.187021927
77	0.110221919	0.889778081	29203.71521	3218.889527	27594.27045	170127.1821	5.825532158
78	0.120362694	0.879637306	25984.82568	3127.603633	24421.02387	142532.9116	5.485236398

79	0.130186401	0.869813599	22857.22205	2975.699475	21369.37231	118111.8878	5.167377186
80	0.14063274	0.85936726	19881.52258	2795.992999	18483.52608	96742.51546	4.86595104
81	0.150380603	0.849619397	17085.52958	2569.332247	15800.86345	78258.98938	4.58042515
82	0.163153778	0.836846222	14516.19733	2368.372438	13332.01111	62458.12593	4.302650653
83	0.175360444	0.824639556	12147.82489	2130.247967	11082.70091	49126.11482	4.044025597
84	0.192177203	0.807822797	10017.57693	1925.149912	9055.001969	38043.41391	3.797666261
85	0.200619207	0.799380793	8092.427013	1623.496286	7280.67887	28988.41194	3.582165386
86	0.218479006	0.781520994	6468.930727	1413.325553	5762.267951	21707.73307	3.355691069
87	0.233233965	0.766766035	5055.605174	1179.138839	4466.035755	15945.46512	3.15401709
88	0.249081847	0.750918153	3876.466335	965.5573937	3393.687638	11479.42936	2.961312796
89	0.266380034	0.733619966	2910.908941	775.4080226	2523.20493	8085.741725	2.777737775
90	0.284560601	0.715439399	2135.500919	607.6794254	1831.661206	5562.536795	2.604792508
91	0.303633112	0.696366888	1527.821493	463.8971953	1295.872896	3730.875589	2.441957784
92	0.323601365	0.676398635	1063.924298	344.2873555	891.7806204	2435.002693	2.288699203
93	0.344462474	0.655537526	719.6369426	247.8879215	595.6929819	1543.222073	2.144445319
94	0.366205906	0.633794094	471.7490212	172.7572775	385.3703824	947.5290908	2.008544901
95	0.388812491	0.611187509	298.9917436	116.2517248	240.8658813	562.1587084	1.880181377
96	0.412253424	0.587746576	182.7400189	75.33519852	145.0724196	321.2928271	1.758196311
97	0.436489277	0.563510723	107.4048204	46.88105239	83.96429417	176.2204075	1.640712278
98	0.46146907	0.53853093	60.52376798	27.92984694	46.55884451	92.25611332	1.524295601
99	0.487129429	0.512870571	32.59392104	15.87745813	24.65519198	45.69726881	1.402018148
100	0.513393872	0.486606128	16.71646291	8.582129616	12.4253981	21.04207683	1.258763708
101	0.540172295	0.459827705	8.134333295	4.393941481	5.937362555	8.616678728	1.059297476
102	0.56736069	0.43263931	3.740391814	2.122151282	2.679316173	2.679316173	0.716319655
103	0.594841184	0.405158816	1.618240532	1.618240532	0	0	0

vik	qx	px	lx	dx	Lx_1	Tx	ex
0	0.015971495	0.984028505	100000	1597.149515	98530.62245	7415597.744	74.15597744
1	0.000745193	0.999254807	98402.85048	73.32908216	98366.18594	7317067.122	74.35828419
2	0.000557488	0.999442512	98329.5214	54.81754463	98302.11263	7218700.936	73.41336389
3	0.000315775	0.999684225	98274.70386	31.03273473	98259.18749	7120398.823	72.4540349
4	0.000317747	0.999682253	98243.67112	31.21660229	98228.06282	7022139.636	71.47676339
5	0.000306238	0.999693762	98212.45452	30.07639122	98197.41633	6923911.573	70.49932319
6	0.000303589	0.999696411	98182.37813	29.80713053	98167.47456	6825714.156	69.52076622
7	0.000238457	0.999761543	98152.571	23.40519179	98140.8684	6727546.682	68.54172655
8	0.000202648	0.999797352	98129.16581	19.88570168	98119.22296	6629405.813	67.55795547
9	0.000195981	0.999804019	98109.28011	19.22760051	98099.66631	6531286.591	66.5715474
10	0.000180541	0.999819459	98090.05251	17.70924163	98081.19788	6433186.924	65.58449873
11	0.000196921	0.999803079	98072.34326	19.31254798	98062.68699	6335105.726	64.59625125
12	0.000215251	0.999784749	98053.03072	21.10600205	98042.47771	6237043.039	63.60887567
13	0.000205188	0.999794812	98031.92471	20.11502127	98021.8672	6139000.562	62.62246283
14	0.000232447	0.999767553	98011.80969	22.78259825	98000.41839	6040978.694	61.63521226
15	0.000252817	0.999747183	97989.02709	24.773256	97976.64047	5942978.276	60.64942629
16	0.00029751	0.99970249	97964.25384	29.1453518	97949.68116	5845001.636	59.66463691
17	0.000386296	0.999613704	97935.10849	37.83191922	97916.19253	5747051.954	58.68224423
18	0.000434679	0.999565321	97897.27657	42.55385412	97875.99964	5649135.762	57.70472847
19	0.000483022	0.999516978	97854.72271	47.26601441	97831.08971	5551259.762	56.72960495
20	0.000474876	0.999525124	97807.4567	46.44639204	97784.2335	5453428.673	55.75677823
21	0.000461086	0.999538914	97761.01031	45.07627156	97738.47217	5355644.439	54.7830308
22	0.000451722	0.999548278	97715.93403	44.14041106	97693.86383	5257905.967	53.80807152
23	0.000498497	0.999501503	97671.79362	48.68912847	97647.44906	5160212.103	52.83216281
24	0.000474639	0.999525361	97623.1045	46.33573843	97599.93663	5062564.654	51.85826327
25	0.000475697	0.999524303	97576.76876	46.41701009	97553.56025	4964964.717	50.88265148
26	0.000488963	0.999511037	97530.35175	47.68871501	97506.50739	4867411.157	49.90662978
27	0.000546915	0.999453085	97482.66303	53.31471404	97456.00567	4769904.65	48.9307996
28	0.000597874	0.999402126	97429.34832	58.25049495	97400.22307	4672448.644	47.95730162
29	0.000651867	0.999348133	97371.09782	63.47297302	97339.36134	4575048.421	46.98569209
30	0.000655431	0.999344569	97307.62485	63.77838597	97275.73566	4477709.06	46.01601433
31	0.000646742	0.999353258	97243.84646	62.89167918	97212.40062	4380433.324	45.04586648
32	0.000684122	0.999315878	97180.95478	66.48362183	97147.71297	4283220.923	44.07469481
33	0.000717069	0.999282931	97114.47116	69.63780506	97079.65226	4186073.21	43.10452562
34	0.000695315	0.999304685	97044.83336	67.47670411	97011.09501	4088993.558	42.13509794
35	0.000780437	0.999219563	96977.35665	75.68468346	96939.51431	3991982.463	41.16406758
36	0.000830704	0.999169296	96901.67197	80.4966213	96861.42366	3895042.949	40.1958281
37	0.000892711	0.999107289	96821.17535	86.43331065	96777.95869	3798181.525	39.228831
38	0.001098089	0.998901911	96734.74204	106.2233971	96681.63034	3701403.566	38.26343554
39	0.00136823	0.99863177	96628.51864	132.2100055	96562.41364	3604721.936	37.30494875
40	0.001524776	0.998475224	96496.30864	147.1352801	96422.741	3508159.522	36.35537537
41	0.001822272	0.998177728	96349.17336	175.5744034	96261.38615	3411736.781	35.41013029
42	0.001877363	0.998122637	96173.59895	180.5527175	96083.32259	3315475.395	34.47386218
43	0.00185022	0.99814978	95993.04623	177.6082305	95904.24212	3219392.073	33.5377634
44	0.002132076	0.997867924	95815.438	204.2857896	95713.29511	3123487.831	32.59900383
45	0.00239423	0.99760577	95611.15221	228.9151057	95496.69466	3027774.536	31.66758757
46	0.002667815	0.997332185	95382.23711	254.4621346	95255.00604	2932277.841	30.74238904
47	0.003089908	0.996910092	95127.77497	293.9360643	94980.80694	2837022.835	29.82328595
48	0.003395016	0.996604984	94833.83891	321.9624221	94672.8577	2742042.028	28.91417304
49	0.003694425	0.996305575	94511.87649	349.1670637	94337.29296	2647369.17	28.01096824
50	0.004184367	0.995815633	94162.70942	394.0113753	93965.70374	2553031.877	27.11298233
51	0.004432037	0.995567963	93768.69805	415.5863191	93560.90489	2459066.173	26.22480875
52	0.004804005	0.995195995	93353.11173	448.4688042	93128.87733	2365505.269	25.33932961
53	0.005106327	0.994893673	92904.64293	474.4014801	92667.44219	2272376.391	24.4592339
54	0.005967355	0.994032645	92430.24145	551.5640535	92154.45942	2179708.949	23.58220551
55	0.006693318	0.993306682	91878.67739	614.9732092	91571.19079	2087554.49	22.7207721
56	0.007540007	0.992459993	91263.70418	688.1289957	90919.63968	1995983.299	21.870505
57	0.00823837	0.99176163	90575.57519	746.1950755	90202.47765	1905063.659	21.03286295
58	0.008620471	0.991379529	89829.38011	774.3715931	89442.19431	1814861.182	20.20342542
59	0.009463125	0.990536875	89055.00852	842.7387146	88633.63916	1725418.987	19.37475518
60	0.010904573	0.989095427	88212.2698	961.9170923	87731.31126	1636785.348	18.55507575
61	0.012217685	0.987782315	87250.35271	1065.997326	86717.35405	1549054.037	17.75412922
62	0.013629643	0.986370357	86184.35539	1174.661977	85597.0244	1462336.683	16.96754215
63	0.015041044	0.984958956	85009.69341	1278.634569	84370.37612	1376739.658	16.19509027
64	0.016227724	0.983772276	83731.05884	1358.764553	83051.67656	1292369.282	15.43476579
65	0.018150837	0.981849163	82372.29429	1495.126099	81624.73124	1209317.606	14.68112083
66	0.019999697	0.980000303	80877.16819	1617.518855	80068.40876	1127692.874	13.94327843
67	0.022713111	0.977286889	79259.64933	1800.233191	78359.53274	1047624.466	13.21762681
68	0.025453502	0.974546498	77459.41614	1971.613419	76473.60943	969264.9329	12.51319699
69	0.028802919	0.971197081	75487.80272	2174.269062	74400.66819	892791.3235	11.82696133
70	0.032302333	0.967697667	73313.53366	2368.198152	72129.43458	818390.6553	11.1628865
71	0.035614645	0.964385355	70945.33551	2526.692949	69681.98903	746261.2207	10.51882009
72	0.040023801	0.959976199	68418.64256	2738.374165	67049.45548	676579.2317	9.888814019
73	0.045318356	0.954681644	65680.26839	2976.521796	64192.0075	609529.7762	9.280257087
74	0.050683376	0.949316624	62703.7466	3178.037594	61114.7278	545337.7687	8.697052382
75	0.057630124	0.942369876	59525.709	3430.473971	57810.47202	484223.0409	8.134687499
76	0.06462475	0.93537525	56095.23503	3625.140567	54282.66475	426412.5689	7.601582713
77	0.07241697	0.92758303	52470.09446	3799.725257	50570.23184	372129.9042	7.092228591
78	0.081146272	0.918853728	48670.36921	3949.418995	46695.65971	321559.6723	6.606887878

79	0.089951472	0.910048528	44720.95021	4022.715288	42709.59257	274864.0126	6.146202424
80	0.100244457	0.899755543	40698.23492	4079.772459	38658.34869	232154.42	5.704287188
81	0.111013856	0.888986144	36618.46247	4065.156717	34585.88411	193496.0713	5.284112394
82	0.123224596	0.876775404	32553.30575	4011.367947	30547.62177	158910.1872	4.881537638
83	0.13785259	0.86214741	28541.9378	3934.580044	26574.64778	128362.5655	4.497331834
84	0.153668392	0.846331608	24607.35776	3781.373102	22716.67121	101787.9177	4.136483026
85	0.171602907	0.828397093	20825.98466	3573.799504	19039.0849	79071.24648	3.796759087
86	0.191687754	0.808312246	17252.18515	3307.032629	15598.66884	60032.16158	3.479684518
87	0.212975594	0.787024406	13945.15252	2969.977147	12460.16395	44433.49274	3.186303819
88	0.236276131	0.763723869	10975.17538	2593.171972	9678.58939	31973.32879	2.913240809
89	0.26168868	0.73831132	8382.003404	2193.475403	7285.265703	22294.7394	2.65983421
90	0.28929338	0.71070662	6188.528002	1790.300183	5293.37791	15009.4737	2.425370572
91	0.319143789	0.680856211	4398.227818	1403.66709	3696.394273	9716.095787	2.209093341
92	0.351258364	0.648741636	2994.560728	1051.864502	2468.628477	6019.701514	2.010211868
93	0.385610978	0.614389022	1942.696226	749.1249907	1568.133731	3551.073037	1.827909577
94	0.422120745	0.577879255	1193.571235	503.831179	941.6556457	1982.939306	1.661349778
95	0.460641652	0.539358348	689.7400562	317.7229991	530.8785566	1041.283661	1.509675495
96	0.500952705	0.499047295	372.0170571	186.3629512	278.8355815	510.4051041	1.371993822
97	0.542749599	0.457250401	185.6541059	100.7636916	135.2722601	231.5695226	1.247317001
98	0.585639185	0.414360815	84.89041434	49.71515306	60.03283781	96.29726252	1.134371451
99	0.629138269	0.370861731	35.17526128	22.13010298	24.11020979	36.26442471	1.030963905
100	0.672678425	0.327321575	13.0451583	8.775196531	8.65756003	12.15421493	0.931703139
101	0.715618473	0.284381527	4.269961765	3.055663517	2.742130006	3.496654897	0.818896067
102	0.757265948	0.242734052	1.214298248	0.919546714	0.754524891	0.754524891	0.621367026
103	0.796908172	0.203091828	0.294751534	0.294751534	0	0	0