

Contribution from Dr Jitka Rychtarikova

vik	qx	px	lx	dx	Lx_1	Tx	ex
0	0.021780583	0.978219417	100000	2178.058281	97996.18638	6716503.007	67.16503007
1	0.00068384	0.99931616	97821.94172	66.89453574	97788.49445	6618506.821	67.65871444
2	0.000650749	0.999349251	97755.04718	63.61401027	97723.24018	6520718.327	66.70467167
3	0.000591216	0.999408784	97691.43317	57.75675779	97662.55479	6422995.086	65.74778236
4	0.000525942	0.999474058	97633.67641	51.34965976	97608.00158	6325332.532	64.78638072
5	0.000460875	0.999539125	97582.32675	44.97328788	97559.84011	6227724.53	63.82020943
6	0.000421407	0.999578593	97537.35347	41.10296327	97516.80199	6130164.69	62.84940561
7	0.00040671	0.99959329	97496.2505	39.65268665	97476.42416	6032647.888	61.87569119
8	0.000403766	0.999596234	97456.59782	39.34970349	97436.92297	5935171.464	60.90066344
9	0.00035322	0.99964678	97417.24811	34.40974193	97400.04324	5837734.541	59.92506105
10	0.000354667	0.999645333	97382.83837	34.53847267	97365.56914	5740334.498	58.9460586
11	0.000310531	0.999689469	97348.2999	30.22963202	97333.18508	5642968.928	57.96679484
12	0.000338123	0.999661877	97318.07027	32.90550092	97301.61752	5545635.743	56.98464559
13	0.000432926	0.999567074	97285.16477	42.11725454	97264.10614	5448334.126	56.00375082
14	0.000527056	0.999472944	97243.04751	51.2525433	97217.42124	5351070.02	55.02779023
15	0.000646529	0.999353471	97191.79497	62.83734903	97160.37629	5253852.598	54.05654459
16	0.000779317	0.999220683	97128.95762	75.69425897	97091.11049	5156692.222	53.09119287
17	0.00094314	0.99905686	97053.26336	91.53483221	97007.49594	5059601.112	52.13221005
18	0.001067226	0.998932774	96961.72853	103.4800471	96909.9885	4962593.616	51.18095243
19	0.001203973	0.998796027	96858.24848	116.6147168	96799.94112	4865683.627	50.23509823
20	0.001262308	0.998737692	96741.63376	122.1177551	96680.57489	4768883.686	49.29505013
21	0.001233907	0.998766093	96619.51601	119.2194729	96559.90627	4672203.111	48.35672237
22	0.001192695	0.998807305	96500.29654	115.0953895	96442.74884	4575643.205	47.41584606
23	0.001213986	0.998786014	96385.20115	117.0103258	96326.69598	4479200.456	46.47186915
24	0.001193959	0.998806041	96268.19082	114.9402492	96210.7207	4382873.76	45.52774621
25	0.001186112	0.998813888	96153.25057	114.0485563	96096.22629	4286663.039	44.58157175
26	0.001263767	0.998736233	96039.20202	121.3711727	95978.51643	4190566.813	43.63391954
27	0.001254021	0.998745979	95917.83084	120.2830047	95857.68934	4094588.297	42.68849974
28	0.00135962	0.99864038	95797.54784	130.2482661	95732.4237	3998730.607	41.74147144
29	0.001461779	0.998538221	95667.29957	139.8444533	95597.37735	3902998.184	40.79762051
30	0.00156777	0.99843223	95527.45512	149.7651134	95452.57256	3807400.806	39.85661297
31	0.001631845	0.998368155	95377.69001	155.6415808	95299.86921	3711948.234	38.91841198
32	0.001793776	0.998206224	95222.04842	170.8070153	95136.64492	3616648.364	37.98120734
33	0.001892724	0.998107276	95051.24141	179.9058079	94961.28851	3521511.72	37.04856104
34	0.002015141	0.997984859	94871.3356	191.1790766	94775.74606	3426550.431	36.11786858
35	0.002034813	0.997965187	94680.15652	192.6564088	94583.82832	3331774.685	35.18978852
36	0.002138725	0.997861275	94487.50012	202.0827636	94386.45873	3237190.857	34.26051967
37	0.002237181	0.997762819	94285.41735	210.9335285	94179.95059	3142804.398	33.33287889
38	0.002440111	0.997559889	94074.48382	229.5522186	93959.70771	3048624.447	32.40649668
39	0.002707215	0.997292785	93844.93161	254.0583834	93717.90241	2954664.74	31.48454252
40	0.003113521	0.996886479	93590.87322	291.3971645	93445.17464	2860946.837	30.56865204
41	0.003584806	0.996415194	93299.47606	334.4605485	93132.24578	2767501.663	29.66256382
42	0.004210634	0.995789366	92965.01551	391.4416255	92769.2947	2674369.417	28.76748207
43	0.004545377	0.995454623	92573.57388	420.7817884	92363.18299	2581600.122	27.88700937
44	0.005120744	0.994879256	92152.79209	471.8908469	91916.84667	2489236.939	27.01206206
45	0.005532706	0.994467294	91680.90125	507.2434296	91427.27953	2397320.092	26.14852232
46	0.006210261	0.993789739	91173.65782	566.2122033	90890.55172	2305892.813	25.29121753
47	0.006953963	0.993046037	90607.44561	630.0808346	90292.4052	2215002.261	24.44613957
48	0.007680937	0.992319063	89977.36478	691.1104512	89631.80955	2124709.856	23.61382622
49	0.008215219	0.991784781	89286.25433	733.506138	88919.50126	2035078.046	22.79273626
50	0.009208609	0.990791391	88552.74819	815.4476499	88145.02437	1946158.545	21.97739297
51	0.010020381	0.989979619	87737.30054	879.1612056	87297.71994	1858013.521	21.17700806
52	0.01113708	0.98886292	86858.13934	967.3460559	86374.46631	1770715.801	20.38629672
53	0.012550298	0.987449702	85890.79328	1077.955042	85351.81576	1684341.335	19.61026637
54	0.013800421	0.986199579	84812.83824	1170.452894	84227.61179	1598989.519	18.85315422
55	0.015799841	0.984200159	83642.38534	1321.536381	82981.61715	1514761.907	18.10997978
56	0.017480539	0.982519461	82320.84896	1439.012845	81601.34254	1431780.29	17.39268129
57	0.018543735	0.981456265	80881.83612	1499.851305	80131.91046	1350178.947	16.6932282
58	0.019812549	0.980187451	79381.98481	1572.759486	78595.60507	1270047.037	15.9991847
59	0.020795461	0.979204539	77809.22533	1618.07868	77000.18599	1191451.432	15.31247004
60	0.022097935	0.977902065	76191.14665	1683.667031	75349.31313	1114451.246	14.62704389
61	0.024896215	0.975103785	74507.47961	1854.954201	73580.00251	1039101.933	13.94627678
62	0.027358833	0.972641167	72652.52541	1987.688338	71658.68124	965521.9302	13.28958525
63	0.030599641	0.969400359	70664.83707	2162.318611	69583.67777	893863.2489	12.64933574
64	0.034126789	0.965873211	68502.51846	2337.771002	67333.63296	824279.5712	12.03283601
65	0.037389003	0.962610997	66164.74746	2473.833915	64927.8305	756945.9382	11.44032082
66	0.041379692	0.958620308	63690.91355	2635.510368	62373.15836	692018.1077	10.86525643
67	0.045730737	0.954269263	61055.40318	2792.108574	59659.34889	629644.9493	10.31268187
68	0.050279264	0.949720736	58263.29461	2929.435577	56798.57682	569985.6004	9.78292773
69	0.055392872	0.944607128	55333.85903	3065.10139	53801.30833	513187.0236	9.274376171
70	0.060369577	0.939630423	52268.75764	3155.442815	50691.03623	459385.7153	8.788915904
71	0.066211697	0.933788303	49113.31482	3251.875942	47487.37685	408694.6791	8.321463956
72	0.072238055	0.927761945	45861.43888	3312.94113	44204.96832	361207.3022	7.876056901
73	0.078893465	0.921106535	42548.49775	3356.798402	40870.09855	317002.3339	7.450376644
74	0.085375695	0.914624305	39191.69935	3346.018555	37518.69007	276132.2353	7.045681609
75	0.09100141	0.90899859	35845.68079	3262.007482	34214.67705	238613.5453	6.656688895
76	0.092276524	0.901723476	32583.67331	3202.210157	30982.56823	204398.8682	6.273045591
77	0.108341224	0.891658776	29381.46316	3183.223696	27789.85131	173416.3	5.902234993
78	0.118628734	0.881371266	26198.23946	3107.863989	24644.30747	145626.4487	5.558634919

79	0.1278354	0.8721646	23090.37547	2951.767393	21614.49177	120982.1412	5.239505151
80	0.138266939	0.861733061	20138.60808	2784.503696	18746.35623	99367.64943	4.934186566
81	0.148652946	0.851347054	17354.10438	2579.738748	16064.23501	80621.2932	4.64566142
82	0.160367143	0.839632857	14774.36563	2369.322804	13589.70423	64557.0582	4.369531647
83	0.172159376	0.827840624	12405.04283	2135.644432	11337.22061	50967.35396	4.108599597
84	0.185212138	0.814787862	10269.3984	1902.017229	9318.389783	39630.13335	3.859051116
85	0.198480456	0.801519544	8367.381168	1660.761633	7537.000352	30311.74357	3.622608192
86	0.214231955	0.785768045	6706.619535	1436.772212	5988.233429	22774.74322	3.395860328
87	0.229832313	0.770167687	5269.847323	1211.181202	4664.256722	16786.50979	3.185388258
88	0.246315233	0.753684767	4058.666121	999.7112933	3558.810475	12122.25307	2.986757891
89	0.263702062	0.736297938	3058.954828	806.6526957	2655.62848	8563.44259	2.799466835
90	0.282009899	0.717990101	2252.302132	635.1714962	1934.716384	5907.81411	2.623011374
91	0.301250715	0.698749285	1617.130636	487.1617603	1373.549756	3973.097726	2.456881118
92	0.321430398	0.678569602	1129.968876	363.2063453	948.3657033	2599.54797	2.300548294
93	0.342547727	0.657452273	766.7625307	262.6527622	635.4361496	1651.182266	2.153446732
94	0.364593298	0.635406702	504.1097685	183.7950428	412.2122471	1015.746117	2.014930438
95	0.387548401	0.612451599	320.3147256	124.1374596	258.2459958	603.5338696	1.884190208
96	0.411383893	0.588616107	196.177266	80.70416733	155.8251824	345.2878738	1.760080976
97	0.436059076	0.563940924	115.4730987	50.35309277	90.29655231	189.4626914	1.640751773
98	0.461520635	0.538479365	65.12000593	30.05422647	50.09289269	99.16613913	1.522821408
99	0.487701661	0.512298339	35.06577946	17.10163888	26.51496001	49.07324644	1.399462587
100	0.51452084	0.48547916	17.96414057	9.242924696	13.34267823	22.55828642	1.255739807
101	0.541881843	0.458118157	8.721215878	4.725868533	6.358281612	9.215608197	1.056688462
102	0.569673003	0.430326997	3.995347346	2.276041521	2.857326585	2.857326585	0.715163498
103	0.597767346	0.402232654	1.719305825	1.719305825	0	0	0

vik	qx	px	lx	dx	Lx_1	Tx	ex
0	0.015177037	0.984822963	100000	1517.703684	98603.71261	7415393.682	74.15393682
1	0.000735621	0.999264379	98482.29632	72.44564974	98446.07349	7316789.97	74.29548501
2	0.000605039	0.999394961	98409.85067	59.54180679	98380.07976	7218343.896	73.34981048
3	0.000446095	0.999553905	98350.30886	43.8735799	98328.37207	7119963.816	72.39391415
4	0.000416645	0.999583355	98306.43528	40.9589205	98285.95582	7021635.444	71.42599998
5	0.000390932	0.999609068	98265.47636	38.41515425	98246.26878	6923349.489	70.45556329
6	0.000350089	0.999649911	98227.0612	34.38822799	98209.86709	6825103.22	69.48292188
7	0.000297542	0.999702458	98192.67298	29.21645787	98178.06475	6726893.353	68.50708051
8	0.000231242	0.999768758	98163.45652	22.69948577	98152.10678	6628715.288	67.5273215
9	0.000189316	0.999810684	98140.75703	18.57963624	98131.46722	6530563.181	66.5428246
10	0.000197313	0.999802687	98122.1774	19.36081248	98112.49699	6432431.714	65.55532994
11	0.000215543	0.999784457	98102.81658	21.14533176	98092.24392	6334319.217	64.56816876
12	0.000223515	0.999776485	98081.67125	21.92275653	98070.70987	6236226.973	63.58198115
13	0.00021513	0.99978487	98059.7485	21.09563841	98049.20068	6138156.263	62.59608409
14	0.000214989	0.999785011	98038.65286	21.07723263	98028.11424	6040107.062	61.60944573
15	0.000276936	0.999723064	98017.57563	27.14458583	98004.00333	5942078.948	60.62258641
16	0.000314524	0.999685476	97990.43104	30.82035488	97975.02086	5844074.945	59.63924113
17	0.000397277	0.999602723	97959.61068	38.91713407	97940.15212	5746099.924	58.6578477
18	0.000464307	0.999535693	97920.69355	45.4652334	97897.96093	5648159.772	57.68096168
19	0.000454842	0.999545158	97875.22832	44.51780678	97852.96941	5550261.811	56.70752351
20	0.000471515	0.999528485	97830.71051	46.12866855	97807.64618	5452408.842	55.73310071
21	0.000462875	0.999537125	97784.58184	45.26200362	97761.95084	5354601.195	54.75915624
22	0.000446064	0.999553936	97739.31984	43.59795611	97717.52086	5256839.245	53.78428306
23	0.000510162	0.999489838	97695.72188	49.84065893	97670.80155	5159121.724	52.80806185
24	0.000528386	0.999471614	97645.88122	51.59469239	97620.08388	5061450.922	51.83476106
25	0.000521272	0.999478728	97594.28653	50.87318123	97568.84994	4963830.838	50.86189996
26	0.000505508	0.999494492	97543.41335	49.30897464	97518.75886	4866261.988	49.88816591
27	0.000487667	0.999512333	97494.10437	47.54469594	97470.33203	4768743.229	48.91314465
28	0.000532115	0.999467885	97446.55968	51.85275499	97420.6333	4671272.897	47.93676568
29	0.000605313	0.999394687	97394.70692	58.95424409	97365.2298	4573852.264	46.96202092
30	0.000634519	0.999365481	97335.75268	61.76134047	97304.87201	4476487.034	45.990162
31	0.000663591	0.999336409	97273.99134	64.55017893	97241.71625	4379182.162	45.01904468
32	0.000661129	0.999338871	97209.44116	64.26799981	97177.30716	4281940.446	44.04860675
33	0.000721965	0.999278035	97145.17316	70.13538466	97110.10547	4184763.139	43.07741705
34	0.000821099	0.999178901	97075.03778	79.7082345	97035.18366	4087653.033	42.10817865
35	0.000964291	0.999035709	96995.32954	93.53173023	96948.56368	3990617.85	41.14237117
36	0.000996343	0.999003657	96901.79781	96.54744036	96853.52409	3893669.286	40.18160007
37	0.001115518	0.998884482	96805.25037	107.9879968	96751.25637	3796815.762	39.22117599
38	0.001166593	0.998833407	96697.26237	112.806314	96640.85922	3700064.506	38.2644184
39	0.001231371	0.998768629	96584.45606	118.9313106	96524.9904	3603423.646	37.30852555
40	0.001507138	0.998492862	96465.52475	145.3868916	96392.8313	3506898.656	36.35390638
41	0.001780907	0.998219093	96320.13786	171.5371717	96234.36927	3410505.825	35.40802475
42	0.001928491	0.998071509	96148.60069	185.4217235	96055.88982	3314271.455	34.47030359
43	0.002170693	0.997829307	95963.17896	208.3066227	95859.02565	3218215.566	33.5359416
44	0.002281682	0.997718318	95754.87234	218.4821793	95645.63125	3122356.54	32.6078085
45	0.002425249	0.997574751	95536.39016	231.6995147	95420.5404	3026710.909	31.68123585
46	0.00277456	0.99722544	95304.69065	264.4285618	95172.47636	2931290.368	30.75704195
47	0.002994192	0.997005808	95040.26208	284.5688396	94897.97766	2836117.892	29.8412255
48	0.003262524	0.996737476	94755.69324	309.1427254	94601.12188	2741219.914	28.92934261
49	0.003540216	0.996459784	94446.55052	334.3612185	94279.36991	2646618.792	28.02239762
50	0.003860676	0.996139324	94112.1893	363.3366281	93930.52099	2552339.423	27.12017903
51	0.004296056	0.995703944	93748.85267	402.7503093	93547.47752	2458408.902	26.22334921
52	0.004818268	0.995181732	93346.10236	449.7665739	93121.21908	2364861.424	25.33433495
53	0.005364207	0.994635793	92896.33579	498.3151574	92647.17821	2271740.205	24.45457278
54	0.006033024	0.993966976	92398.02063	557.439442	92119.30091	2179093.027	23.58376307
55	0.006980065	0.993019935	91840.58119	641.0532507	91520.05456	2086973.726	22.72387325
56	0.007473642	0.992526358	91199.52794	681.5926201	90858.73163	1995453.671	21.88008772
57	0.008059537	0.991940463	90517.93532	729.532644	90153.169	1904594.94	21.04107802
58	0.008959826	0.991040174	89788.40267	804.4884402	89386.15845	1814441.771	20.20797471
59	0.009618958	0.990381042	88983.91423	855.9325231	88555.94797	1725055.612	19.38615116
60	0.010772257	0.989227743	88127.98171	949.3372984	87653.31306	1636499.664	18.56958065
61	0.012213631	0.987786369	87178.64441	1064.767783	86646.26052	1548846.351	17.76635048
62	0.012992348	0.987007652	86113.87663	1118.821477	85554.46589	1462200.091	16.97984283
63	0.01437938	0.98562062	84995.05515	1222.176177	84383.96706	1376645.625	16.19677312
64	0.01640938	0.98359062	83772.87898	1374.661013	83085.54847	1292261.658	15.4257759
65	0.018379197	0.981620803	82398.21796	1514.413084	81641.01142	1209176.109	14.67478471
66	0.020198556	0.979801444	80883.80488	1633.736036	80066.93686	1127535.098	13.94018369
67	0.022124215	0.977875785	79250.06884	1753.345577	78373.39606	1047468.161	13.21725238
68	0.024874278	0.975125722	77496.72327	1927.675068	76532.88573	969094.7648	12.50497729
69	0.02816171	0.97183829	75569.0482	2128.153589	74504.9714	892561.8791	11.81120975
70	0.032184225	0.967815775	73440.89461	2363.638249	72259.07548	818056.9077	11.13898342
71	0.036415165	0.963584835	71077.25636	2588.289984	69783.11137	745797.8322	10.49277744
72	0.040555274	0.959444726	68488.96638	2777.588775	67100.17199	676014.7208	9.870417917
73	0.045794248	0.954205752	65711.3776	3009.203129	64206.77604	608914.5489	9.26650104
74	0.051189914	0.948810086	62702.17447	3209.718895	61097.31502	544707.7728	8.68722301
75	0.057154068	0.942845932	59492.45558	3400.235871	57792.33764	483610.4578	8.128937579
76	0.064350654	0.935649346	56092.21971	3609.571041	54287.43418	425818.1202	7.591393644
77	0.071487327	0.928512673	52482.64866	3751.844288	50606.72652	371530.686	7.07911463
78	0.08052003	0.91947997	48730.80438	3923.805806	46768.90147	320923.9595	6.58564872

79	0.090113201	0.909886799	44806.99857	4037.702083	42788.14753	274155.058	6.118576712
80	0.100231454	0.899768546	40769.29649	4086.365855	38726.11356	231366.9105	5.675028278
81	0.111891844	0.888108156	36682.93063	4104.520742	34630.67026	192640.7969	5.251510541
82	0.124991877	0.875008123	32578.40989	4072.036603	30542.39159	158010.1266	4.850148524
83	0.139470817	0.860529183	28506.37329	3975.807164	26518.46971	127467.735	4.47155216
84	0.155481014	0.844518986	24530.56612	3814.03729	22623.54748	100949.2653	4.115244011
85	0.173145058	0.826854942	20716.52883	3586.964592	18923.04654	78325.71786	3.780832131
86	0.192585042	0.807414958	17129.56424	3298.897852	15480.11532	59402.67132	3.46784486
87	0.213919295	0.786080705	13830.66639	2958.64641	12351.34319	43922.556	3.175736784
88	0.237258238	0.762741762	10872.01998	2579.476309	9582.281826	31571.21282	2.903895769
89	0.262699243	0.737300757	8292.543672	2178.444942	7203.321201	21988.93099	2.651650912
90	0.290320415	0.709679585	6114.09873	1775.04768	5226.57489	14785.60979	2.418281164
91	0.320173267	0.679826733	4339.05105	1389.248151	3644.426974	9559.034901	2.2030243
92	0.352274304	0.647725696	2949.802898	1039.139764	2430.233016	5914.607927	2.005085808
93	0.386595671	0.613404329	1910.663134	738.6540958	1541.336086	3484.374911	1.823646905
94	0.423055143	0.576944857	1172.009038	495.8244511	924.0968127	1943.038824	1.657870171
95	0.461505949	0.538494051	676.1845872	312.0632097	520.1529823	1018.942012	1.506899197
96	0.501727128	0.498272872	364.1213775	182.6895729	272.7765911	498.7890293	1.36984275
97	0.543415407	0.456584593	181.4318046	98.5928379	132.1353857	226.0124382	1.245715649
98	0.58617986	0.41382014	82.83896672	48.55853389	58.55969978	93.87705253	1.133247507
99	0.629540837	0.370459163	34.28043284	21.58093238	23.48996665	35.31735275	1.030248157
100	0.672934815	0.327065185	12.69950046	8.545935987	8.426532466	11.8273861	0.931326877
101	0.715726767	0.284273233	4.153564472	2.972817272	2.667155836	3.400853638	0.818779547
102	0.757231351	0.242768649	1.1807472	0.894098797	0.733697801	0.733697801	0.621384325
103	0.796743481	0.203256519	0.286648403	0.286648403	0	0	0