

Contribution from Dr Jitka Rychtarikova

vik	qx	px	lx	dx	Lx_1	Tx	ex
0	0.012361368	0.987638632	100000	1236.136803	98862.75414	6758160.633	67.58160633
1	0.000726865	0.999273135	98763.8632	71.78801618	98727.96919	6659297.879	67.4264621
2	0.000299473	0.999700527	98692.07518	29.55560447	98677.29738	6560569.909	66.475144
3	0.000372603	0.999627397	98662.51958	36.76197302	98644.13859	6461892.612	65.49490769
4	0.00031109	0.99968891	98625.7576	30.68146576	98610.41687	6363248.473	64.51913403
5	0.000360942	0.999639058	98595.07614	35.58705954	98577.28261	6264638.057	63.53905592
6	0.000351486	0.999648514	98559.48908	34.64229798	98542.16793	6166060.774	62.56181755
7	0.000330579	0.999669421	98524.84678	32.57029014	98508.56163	6067518.606	61.58363909
8	0.000288935	0.999711065	98492.27649	28.45783933	98478.04757	5969010.044	60.60383877
9	0.000259418	0.999740582	98463.81865	25.54324674	98451.04703	5870531.997	59.62120987
10	0.000235961	0.999764039	98438.2754	23.2275722	98426.66162	5772080.95	58.63655094
11	0.000241755	0.999758245	98415.04783	23.79233322	98403.15166	5673654.288	57.65027212
12	0.000242311	0.999757689	98391.2555	23.84126975	98379.33486	5575251.136	56.66409183
13	0.000264361	0.999735639	98367.41423	26.00450578	98354.41198	5476871.802	55.67770429
14	0.00030216	0.99969784	98341.40972	29.71480704	98326.55232	5378517.39	54.69229498
15	0.000398931	0.999601069	98311.69492	39.21962379	98292.0851	5280190.837	53.70867466
16	0.000610659	0.999389341	98272.47529	60.01100422	98242.46979	5181898.752	52.72990974
17	0.000773149	0.999226851	98212.46429	75.93284787	98174.49786	5083656.282	51.76182391
18	0.000910824	0.999089176	98136.53144	89.38506323	98091.83891	4985481.785	50.80148759
19	0.001088216	0.998911784	98047.14638	106.6964376	97993.79816	4887389.946	49.84734514
20	0.001184318	0.998815682	97940.44994	115.9926259	97882.45363	4789396.147	48.9011042
21	0.001286685	0.998713315	97824.45731	125.8692328	97761.5227	4691513.694	47.95849446
22	0.001341588	0.998658412	97698.58808	131.0712932	97633.05243	4593752.171	47.01963725
23	0.001259076	0.998740924	97567.51679	122.8448912	97506.09434	4496119.119	46.0821313
24	0.001170765	0.998829235	97444.6719	114.0847758	97387.62951	4398613.024	45.139595
25	0.001179668	0.998820332	97330.58712	114.8178068	97273.17822	4301225.395	44.19191872
26	0.001118627	0.998881373	97215.76931	108.7481701	97161.39523	4203952.217	43.24352156
27	0.001221429	0.998778571	97107.02114	118.6093535	97047.71647	4106790.821	42.29138916
28	0.001295293	0.998704707	96988.41179	125.628399	96925.59759	4009743.105	41.34249681
29	0.001325952	0.998674048	96862.78339	128.435439	96798.56567	3912817.507	40.39546842
30	0.001396846	0.998603154	96734.34795	135.123012	96666.78645	3816018.942	39.44843814
31	0.001528076	0.998471924	96599.22494	147.6109578	96525.41946	3719352.155	38.50291923
32	0.001561719	0.998438281	96451.61398	150.6303042	96376.29883	3622826.736	37.56107945
33	0.001714129	0.998285871	96300.98368	165.0723476	96218.4475	3526450.437	36.61904897
34	0.001919254	0.998080746	96135.91133	184.5092687	96043.6567	3430231.989	35.681068
35	0.002130949	0.997869051	95951.40206	204.4675018	95849.16831	3334188.333	34.74871926
36	0.002433689	0.997566311	95746.93456	233.0182756	95630.42542	3238339.164	33.82185737
37	0.002771833	0.997228167	95513.91628	264.7486044	95381.54198	3142708.739	32.90315026
38	0.002977313	0.997022687	95249.16768	283.5865846	95107.37439	3047327.197	31.99321602
39	0.003268106	0.996731894	94965.5811	310.357582	94810.4023	2952219.823	31.08726118
40	0.003505405	0.996494595	94655.22351	331.8049059	94489.32106	2857409.42	30.18755135
41	0.003895473	0.996104527	94323.41861	367.4343642	94139.70143	2762920.099	29.29198432
42	0.004422285	0.995577715	93955.98424	415.5001296	93748.23418	2668780.398	28.40458135
43	0.005049425	0.994950575	93540.48411	472.3256972	93304.32127	2575032.164	27.5285315
44	0.005677336	0.994322664	93068.15842	528.3791771	92803.96883	2481727.842	26.66570269
45	0.006460725	0.993539275	92539.77924	597.8741014	92240.84219	2388923.874	25.81510236
46	0.006952428	0.993047572	91941.90514	639.2195176	91622.29538	2296683.031	24.97971983
47	0.007749408	0.992250592	91302.68562	707.5417978	90948.91472	2205060.736	24.15110488
48	0.008717549	0.991282451	90595.14382	789.7675972	90200.26002	2114111.821	23.33581837
49	0.009464789	0.990535211	89805.37623	849.9889051	89380.38177	2023911.561	22.53664142
50	0.010380366	0.989619634	88955.38732	923.3894995	88493.69257	1934531.179	21.74720652
51	0.011126165	0.988873835	88031.99782	979.458544	87542.26855	1846037.487	20.97007375
52	0.012329056	0.987670944	87052.53928	1073.275605	86515.90147	1758495.218	20.20038971
53	0.013623811	0.986376189	85979.26367	1171.365256	85393.58104	1671979.317	19.44630886
54	0.014900928	0.985099072	84807.89842	1263.7164	84176.04022	1586585.736	18.70799496
55	0.016056005	0.983943995	83544.18202	1341.385793	82873.48912	1502409.696	17.983415
56	0.017774389	0.982225611	82202.79622	1461.104445	81472.244	1419536.207	17.26870948
57	0.019081628	0.980918372	80741.69178	1540.682908	79971.35032	1338063.963	16.57215663
58	0.021481579	0.978518421	79201.00887	1701.362701	78350.32752	1258092.612	15.88480538
59	0.023517618	0.976482382	77499.64617	1822.607046	76588.34265	1179742.285	15.22255059
60	0.025404409	0.974595591	75677.03912	1922.530456	74715.77389	1103153.942	14.57712874
61	0.027791231	0.972208769	73754.50867	2049.72857	72729.64438	1028438.168	13.94407185
62	0.030928383	0.969071617	71704.7801	2217.712892	70595.92365	955708.5237	13.32837954
63	0.033613431	0.966386569	69487.0672	2335.69873	68319.21784	885112.6001	12.73780339
64	0.037106155	0.962893845	67151.36847	2491.729057	65905.50395	816793.3823	12.16346593
65	0.039879276	0.960120724	64659.63942	2578.579613	63370.34961	750887.8783	11.61293018
66	0.043075058	0.956924942	62081.05981	2674.145264	60743.98717	687517.5287	11.0745134
67	0.046370922	0.953629078	59406.91454	2754.753397	58029.53784	626773.5415	10.55051298
68	0.052245758	0.947754242	56652.16114	2959.835089	55172.2436	568744.0037	10.03922487
69	0.055130814	0.944869186	53692.32605	2960.101664	52212.27522	513571.7601	9.565086816
70	0.05856826	0.94143174	50732.22439	2971.298085	49246.57535	461359.4849	9.094012541
71	0.062903857	0.937096143	47760.92631	3004.34647	46258.75307	412112.9095	8.628662411
72	0.066546756	0.933453244	44756.57983	2978.405179	43267.37725	365854.1564	8.174309963
73	0.071767992	0.928232008	41778.17466	2998.335709	40279.0068	322586.7792	7.721418704
74	0.080322543	0.919677457	38779.83895	3114.895285	37222.3913	282307.7724	7.279756184
75	0.086840428	0.913159572	35664.94366	3097.158978	34116.36417	245085.3811	6.871884712
76	0.093773582	0.906226418	32567.78468	3053.997841	31040.78576	210969.0169	6.477843641
77	0.102780092	0.897219908	29513.78684	3033.429725	27997.07198	179928.2312	6.096412911
78	0.110849449	0.889150551	26480.35712	2935.332996	25012.69062	151931.1592	5.737504162

79	0.11961558	0.88038442	23545.02412	2816.351716	22136.84826	126918.4686	5.390458209
80	0.130552965	0.869447035	20728.67241	2706.189637	19375.57759	104781.6203	5.054912261
81	0.142896792	0.857103208	18022.48277	2575.35497	16734.80528	85406.04271	4.738861111
82	0.153496433	0.846503567	15447.1278	2371.079021	14261.58829	68671.23742	4.44556673
83	0.166457857	0.833542143	13076.04878	2176.611062	11987.74325	54409.64913	4.161016073
84	0.177865532	0.822134468	10899.43772	1938.634291	9930.120571	42421.90589	3.892118749
85	0.195844057	0.804155943	8960.803426	1754.920097	8083.343377	32491.78532	3.62599019
86	0.210837385	0.789162615	7205.883329	1519.269594	6446.248531	24408.44194	3.387293525
87	0.227788248	0.772211752	5686.613734	1295.343781	5038.941844	17962.19341	3.158680059
88	0.245979467	0.754020533	4391.269953	1080.162242	3851.188832	12923.25156	2.942941724
89	0.265389576	0.734610424	3311.107711	878.733473	2871.740974	9072.062732	2.739887531
90	0.286051751	0.713948249	2432.374238	695.7849091	2084.481783	6200.321758	2.549082152
91	0.307990419	0.692009581	1736.589329	534.8528749	1469.162891	4115.839974	2.370070981
92	0.331219183	0.668780817	1201.736454	398.0381661	1002.717371	2646.677083	2.202377297
93	0.355738541	0.644261459	803.6982877	285.9064564	660.7450595	1643.959712	2.04549361
94	0.381533456	0.618466544	517.7918313	197.554907	419.0143778	983.2146527	1.89886088
95	0.40857081	0.59142919	320.2369243	130.8394595	254.8171946	564.2002749	1.761821427
96	0.436796825	0.563203175	189.3974648	82.72821127	148.0333592	309.3830803	1.633512258
97	0.466134551	0.533865449	106.6692535	49.72222456	81.80814127	161.3497211	1.512616952
98	0.49648154	0.50351846	56.94702899	28.27314866	42.81045466	79.54157988	1.396764349
99	0.52770788	0.47229212	28.67388033	15.1314326	21.10816402	36.73112523	1.280995973
100	0.559654761	0.440345239	13.54244772	7.579095344	9.75290005	15.6229612	1.153629058
101	0.592133807	0.407866193	5.963352378	3.531102546	4.197801105	5.870061154	0.98435591
102	0.624927401	0.375072599	2.432249832	1.519979565	1.672260049	1.672260049	0.6875363
103	0.657790248	0.342209752	0.912270267	0.912270267	0	0	0

vik	qx	px	lx	dx	Lx_1	Tx	ex
0	0.009032146	0.990967854	100000	903.2145886	99169.04258	7541558.497	75.41558497
1	0.000585179	0.999414821	99096.78541	57.98937118	99067.79073	7442389.455	75.10222883
2	0.000377121	0.999622879	99038.79604	37.3496398	99020.12122	7343321.664	74.14591006
3	0.000345743	0.999654257	99001.4464	34.22909901	98984.33185	7244301.543	73.17369398
4	0.000236859	0.999763141	98967.2173	23.44129639	98955.49665	7145317.211	72.19882912
5	0.000192561	0.999807439	98943.77601	19.05267699	98934.24967	7046361.714	71.21581568
6	0.00017245	0.99982755	98924.72333	17.05952893	98916.19356	6947427.465	70.22943538
7	0.000179263	0.999820737	98907.6638	17.73045464	98898.79857	6848511.271	69.24146227
8	0.000178032	0.999821968	98889.93334	17.60556982	98881.13056	6749612.472	68.25378726
9	0.000179331	0.999820669	98872.32777	17.73087427	98863.46234	6650731.342	67.26585175
10	0.000173169	0.999826831	98854.5969	17.11859605	98846.0376	6551867.88	66.27782708
11	0.000152265	0.999847735	98837.4783	15.04952719	98829.95354	6453021.842	65.28921976
12	0.000146738	0.999853262	98822.42878	14.50097053	98815.17829	6354191.888	64.29908642
13	0.000155701	0.999844299	98807.92781	15.38453014	98800.23554	6255376.71	63.30844952
14	0.00021048	0.99978952	98792.54328	20.79388612	98782.14633	6156576.475	62.31823041
15	0.000254209	0.999745791	98771.74939	25.10871493	98759.19503	6057794.328	61.33124467
16	0.000304597	0.999695403	98746.64068	30.07789278	98731.60173	5959035.133	60.34671248
17	0.0004147	0.9995853	98716.56278	40.93777771	98696.09389	5860303.531	59.36494714
18	0.000478946	0.999521054	98675.625	47.26030735	98651.99485	5761607.438	58.38936857
19	0.000520161	0.999479839	98628.3647	51.30266535	98602.71336	5662955.443	57.41710775
20	0.000488863	0.999511137	98577.06203	48.19063585	98552.96671	5564352.729	56.44672924
21	0.000446577	0.999553423	98528.8714	44.0007291	98506.87103	5465799.763	55.47409287
22	0.000375325	0.999624675	98484.87067	36.96380514	98466.38876	5367292.892	54.49865401
23	0.000335042	0.999664958	98447.90686	32.98419133	98431.41477	5268826.503	53.51892865
24	0.000295373	0.999704627	98414.92267	29.06908886	98400.38813	5170395.088	52.53669817
25	0.000275229	0.999724771	98385.85358	27.07866885	98372.31425	5071994.7	51.55207294
26	0.000294008	0.999705992	98358.77491	28.91825782	98344.31578	4973622.386	50.56612783
27	0.000409008	0.999590992	98329.85666	40.2176692	98309.74782	4875278.07	49.580852
28	0.000476344	0.999523656	98289.63899	46.8196898	98266.22914	4776968.322	48.60093466
29	0.00052455	0.99947545	98242.8193	51.53330885	98217.05264	4678702.093	47.62385818
30	0.000555464	0.999444536	98191.28599	54.54174081	98164.01512	4580485.04	46.64858999
31	0.000562247	0.999437753	98136.74425	55.1770981	98109.1557	4482321.025	45.67423812
32	0.000688852	0.999311148	98081.56715	67.56364909	98047.78532	4384211.869	44.69965149
33	0.000790694	0.999209306	98014.0035	77.49909865	97975.25395	4286164.084	43.73011948
34	0.000862897	0.999137103	97936.5044	84.50914168	97894.24983	4188188.83	42.76432834
35	0.000921813	0.999078187	97851.99526	90.20126219	97806.89463	4090294.58	41.80082961
36	0.000952802	0.999047198	97761.794	93.14763135	97715.22018	3992487.686	40.83893638
37	0.00100778	0.99899222	97668.64637	98.42846596	97619.43213	3894772.466	39.87740806
38	0.00111684	0.99888316	97570.2179	108.970367	97515.73272	3797153.033	38.91713184
39	0.001192138	0.998807862	97461.24753	116.1872796	97403.15389	3699637.301	37.96008562
40	0.001279708	0.998720292	97345.06025	124.5732629	97282.77362	3602234.147	37.00479652
41	0.001457452	0.998542548	97220.48699	141.6942069	97149.63989	3504951.373	36.05157186
42	0.001731571	0.998268429	97078.79278	168.0987907	96994.74339	3407801.733	35.1034622
43	0.00203552	0.99796448	96910.69399	197.2636605	96812.06216	3310806.99	34.16348448
44	0.002304794	0.997695206	96713.43033	222.9045332	96601.97807	3213994.928	33.23214694
45	0.002572925	0.997427075	96490.5258	248.2628712	96366.39436	3117392.95	32.30776207
46	0.002709743	0.997290257	96242.26293	260.7917567	96111.86705	3021026.555	31.38981216
47	0.00285356	0.99714644	95981.47117	273.8889254	95844.52671	2924914.688	30.47374303
48	0.003252631	0.996747369	95707.58225	311.301445	95551.93152	2829070.162	29.55951969
49	0.003462433	0.996537567	95396.2808	330.3031867	95231.12921	2733518.23	28.65434802
50	0.003776738	0.996223262	95065.97761	359.0393281	94886.45795	2638287.101	27.75216925
51	0.004179603	0.995820397	94706.93829	395.8374011	94509.01959	2543400.643	26.85548376
52	0.004287734	0.995712266	94311.10088	404.3809045	94108.91043	2448891.623	25.96610155
53	0.004855857	0.995144143	93906.71998	455.9975888	93678.72119	2354782.713	25.07576362
54	0.005756392	0.994243608	93450.72239	537.9389591	93181.75291	2261103.992	24.19568232
55	0.00634943	0.99365057	92912.78343	589.9432236	92617.81182	2167922.239	23.33287368
56	0.007028623	0.992971377	92322.84021	648.9024805	91998.38897	2075304.427	22.47877581
57	0.007695238	0.992304762	91673.93773	705.4527602	91321.21135	1983306.038	21.63434982
58	0.008193458	0.991806542	90968.48497	745.3464303	90595.81175	1891984.827	20.79824488
59	0.008959187	0.991040813	90223.13854	808.3259314	89818.97557	1801389.015	19.96593162
60	0.010090748	0.989909252	89414.81261	902.262331	88963.68144	1711570.039	19.14190713
61	0.011238758	0.988761242	88512.55028	994.7711204	88015.16472	1622606.358	18.33193545
62	0.012735352	0.987264648	87517.77915	1114.569688	86960.49431	1534591.193	17.5346222
63	0.014125143	0.985874857	86403.20947	1220.457688	85792.98062	1447630.699	16.75436257
64	0.01611118	0.98388882	85182.75178	1372.394679	84496.55444	1361837.718	15.9872473
65	0.017626767	0.982373233	83810.3571	1477.305598	83071.7043	1277341.164	15.24085099
66	0.01989456	0.98010544	82333.0515	1637.979849	81514.06158	1194269.46	14.50534673
67	0.021876195	0.978123805	80695.07165	1765.301096	79812.42111	1112755.398	13.78963269
68	0.025638348	0.974361652	78929.77056	2023.628941	77917.95609	1032942.977	13.08686152
69	0.028304518	0.971695482	76906.14162	2176.791238	75817.746	955025.0207	12.41805922
70	0.031234913	0.968765087	74729.35038	2334.16479	73562.26798	879207.2747	11.76522036
71	0.034515029	0.965484971	72395.18559	2498.721951	71145.82461	805645.0068	11.12843348
72	0.037565177	0.962434823	69896.46364	2625.673014	68583.62713	734499.1822	10.50838832
73	0.041647405	0.958352595	67270.79062	2801.653887	65869.96368	665915.555	9.89902971
74	0.047618254	0.952381746	64469.13674	3069.907715	62934.18288	600045.5913	9.307486058
75	0.052746926	0.947253074	61399.22902	3238.620586	59779.91873	537111.4085	8.747852653
76	0.058451784	0.941548216	58160.60843	3399.591311	56460.81278	477331.4897	8.207126827
77	0.065158104	0.934841896	54761.01712	3568.124036	52976.95511	420870.677	7.685589112
78	0.072200964	0.927799036	51192.89309	3696.176238	49344.80497	367893.7218	7.18642178

79	0.080760123	0.919239877	47496.71685	3835.8407	45578.7965	318548.9169	6.706756551
80	0.090109688	0.909890312	43660.87615	3934.267936	41693.74218	272970.1204	6.252053199
81	0.100215856	0.899784144	39726.60821	3981.236032	37735.9902	231276.3782	5.821699576
82	0.110938402	0.889061598	35745.37218	3965.53446	33762.60495	193540.388	5.41441804
83	0.122627025	0.877372975	31779.83772	3897.066957	29831.30424	159777.783	5.027646285
84	0.13531558	0.86468442	27882.77076	3772.973285	25996.28412	129946.4788	4.660457883
85	0.149980621	0.850019379	24109.79748	3616.002398	22301.79628	103950.1947	4.3115333
86	0.165735198	0.834264802	20493.79508	3396.543185	18795.52349	81648.3984	3.984054592
87	0.18304304	0.81695696	17097.2519	3129.532965	15532.48541	62852.87491	3.676197514
88	0.201867226	0.798132774	13967.71893	2819.624668	12557.9066	47320.3895	3.38783947
89	0.222304367	0.777695633	11148.09426	2478.270042	9908.959242	34762.4829	3.118244435
90	0.244468878	0.755531122	8669.824221	2119.502198	7610.073122	24853.52366	2.866669845
91	0.268431314	0.731568686	6550.322023	1758.311546	5671.16625	17243.45054	2.632458447
92	0.29424691	0.70575309	4792.010476	1410.034277	4086.993338	11572.28429	2.414912143
93	0.321950585	0.678049415	3381.976199	1088.829215	2837.561592	7485.290951	2.213289068
94	0.351551304	0.648448696	2293.146984	806.1588115	1890.067579	4647.729359	2.026790865
95	0.383025904	0.616974096	1486.988173	569.5549884	1202.210679	2757.66178	1.854528389
96	0.416312538	0.583687462	917.4331844	381.938937	726.4637159	1555.451102	1.69543802
97	0.451304011	0.548695989	535.4942474	241.6707018	414.6588965	828.9873858	1.548078975
98	0.487841398	0.512158602	293.8235456	143.3392892	222.153901	414.3284894	1.410126913
99	0.525708454	0.474291546	150.4842563	79.11084579	110.9288334	192.1745884	1.277041154
100	0.564627495	0.435372505	71.37341055	40.29938998	51.22371556	81.24575496	1.138319639
101	0.604257521	0.395742479	31.07402057	18.77671063	21.68566526	30.0220394	0.966145959
102	0.644195489	0.355804511	12.29730994	7.921871596	8.336374145	8.336374145	0.677902255
103	0.683981636	0.316018364	4.375438347	4.375438347	0	0	0