

Contribution from Dr Jitka Rychtarikova

vik	qx	px	lx	dx	Lx_1	Tx	ex
0	0.008844829	0.991155171	100000	884.4828973	99186.27573	6953563.088	69.53563088
1	0.00085739	0.99914261	99115.5171	84.98066156	99073.02677	6854376.812	69.15543612
2	0.000484152	0.999515848	99030.53644	47.94581513	99006.56353	6755303.785	68.21435113
3	0.000426303	0.999573697	98982.59063	42.19656363	98961.49234	6656297.222	67.24715103
4	0.000314455	0.999685545	98940.39406	31.11226511	98924.83793	6557335.729	66.27561767
5	0.000288718	0.999711282	98909.2818	28.55687062	98895.00336	6458410.891	65.29630763
6	0.000265343	0.999734657	98880.72493	26.23726782	98867.60629	6359515.888	64.31502088
7	0.000271234	0.999728766	98854.48766	26.81268801	98841.08131	6260648.282	63.33195821
8	0.000267213	0.999732787	98827.67497	26.40805392	98814.47094	6161807.2	62.34900499
9	0.000277072	0.999722928	98801.26692	27.37504053	98787.5794	6062992.729	61.36553628
10	0.000274448	0.999725552	98773.89188	27.10826769	98760.33774	5964205.15	60.38240507
11	0.000250138	0.999749862	98746.78361	24.70036488	98734.43343	5865444.812	59.39884417
12	0.000251159	0.999748841	98722.08324	24.79491708	98709.68579	5766710.379	58.41358072
13	0.000316709	0.999683291	98697.28833	31.25831262	98681.65917	5668000.693	57.42812988
14	0.000386999	0.999613001	98666.03001	38.18367106	98646.93818	5569319.034	56.44616524
15	0.000545005	0.999454995	98627.84634	53.75265889	98600.97001	5470672.096	55.46782474
16	0.000708339	0.999291661	98574.09368	69.82389148	98539.18174	5372071.126	54.49779881
17	0.000809904	0.999190096	98504.26979	79.77900144	98464.38029	5273531.944	53.53607468
18	0.000986644	0.999013356	98424.49079	97.10990177	98375.93584	5175067.564	52.57906363
19	0.001126183	0.998873817	98327.38089	110.73466163	98272.01356	5076691.628	51.63049785
20	0.001171616	0.998828384	98216.64622	115.0721594	98159.11014	4978419.614	50.68814509
21	0.00120835	0.99879165	98101.57406	118.5410152	98042.30356	4880260.504	49.74701528
22	0.001214563	0.998785437	97983.03305	119.0065357	97923.52978	4782218.201	48.80659489
23	0.001123208	0.998876792	97864.02651	109.9216813	97809.06567	4684294.671	47.86533763
24	0.001171838	0.998828162	97754.10483	114.5519483	97696.82886	4586485.605	46.91859859
25	0.001233655	0.998766345	97639.55288	120.4534913	97579.32614	4488788.776	45.97305747
26	0.001319049	0.998680951	97519.09939	128.6324718	97454.78316	4391209.45	45.02922481
27	0.00134625	0.99865375	97390.46692	131.1118683	97324.91099	4293754.667	44.08803862
28	0.001388699	0.998611301	97259.35505	135.0639415	97191.82308	4196429.756	43.1467981
29	0.001358131	0.998641869	97124.29111	131.9075184	97058.33735	4099237.933	42.20610401
30	0.001465206	0.998534794	96992.38359	142.1137853	96921.3267	4002179.596	41.2628234
31	0.00149599	0.99850401	96850.26981	144.8869942	96777.82631	3905258.269	40.32263696
32	0.001561933	0.998438067	96705.38281	151.0473141	96629.85916	3808480.443	39.38230047
33	0.001530575	0.998469425	96554.3355	147.7836148	96480.44369	3711850.583	38.44312701
34	0.001557535	0.998442465	96406.55188	150.1565622	96331.4736	3615370.14	37.50129083
35	0.001634902	0.998365098	96256.39532	157.3697715	96177.71044	3519038.666	36.55901153
36	0.001955967	0.998044033	96099.02555	187.9665476	96005.04228	3422860.956	35.61806102
37	0.0022513	0.9977487	95911.059	215.9245811	95803.09671	3326855.913	34.68688541
38	0.002499416	0.997500584	95695.13442	239.1819283	95575.54346	3231052.817	33.76402401
39	0.002835321	0.997164679	95455.95249	270.6482938	95320.62835	3135477.273	32.84737296
40	0.003117393	0.996882607	95185.3042	296.7299821	95036.93921	3040156.645	31.93934894
41	0.003395506	0.996604494	94888.57422	322.1947143	94727.47686	2945119.706	31.03766423
42	0.003781742	0.996218258	94566.3795	357.6256908	94387.56666	2850392.229	30.14170833
43	0.004066914	0.995933086	94208.75381	383.138917	94017.18435	2756004.662	29.25423117
44	0.004305978	0.995694022	93825.61489	404.0110497	93623.60937	2661987.478	28.37164969
45	0.005003887	0.994996113	93421.60385	467.47112	93187.86829	2568363.868	27.49218342
46	0.005664465	0.994335535	92954.13273	526.5354388	92690.86501	2475176	26.6279285
47	0.006579531	0.993420469	92427.59729	608.1302104	92123.53218	2382485.135	25.77677236
48	0.007482504	0.992517496	91819.46708	687.0394893	91475.94733	2290361.603	24.94418314
49	0.008126607	0.991873393	91132.42759	740.5974458	90762.12886	2198885.656	24.12846573
50	0.008757286	0.991242714	90391.83014	791.5870815	89996.0366	2108123.527	23.32205824
51	0.00947303	0.99052697	89600.24306	848.7858324	89175.85014	2018127.49	22.52368321
52	0.010348086	0.989651914	88751.45723	918.4077201	88292.25337	1928951.64	21.7343095
53	0.011619654	0.988380346	87833.04951	1020.589648	87322.75468	1840659.387	20.95634157
54	0.012654453	0.987345547	86812.45986	1098.564156	86263.17778	1753336.632	20.19683159
55	0.013807925	0.986192075	85713.8957	1183.531058	85122.13017	1667073.454	19.4492788
56	0.015115227	0.984884773	84530.36465	1277.695678	83891.51681	1581951.324	18.71459245
57	0.016302724	0.983697276	83252.66897	1357.245279	82574.04633	1498059.807	17.99413551
58	0.017925155	0.982074845	81895.42369	1467.988134	81161.42962	1415485.761	17.2840642
59	0.019588957	0.980411043	80427.43555	1575.489608	79639.69075	1334324.331	16.59041249
60	0.02108784	0.97891216	78851.94595	1662.817247	78020.53732	1254684.64	15.91190459
61	0.0233707	0.9766293	77189.1287	1803.963944	76287.14673	1176664.103	15.24390964
62	0.025684728	0.974315272	75385.16475	1936.247431	74417.04104	1100376.956	14.5967308
63	0.027865628	0.972134372	73448.91732	2046.700229	72425.56721	1025959.915	13.96834634
64	0.029900001	0.970099999	71402.21709	2134.926366	70334.75391	953534.3482	13.35440813
65	0.0319031	0.9680969	69267.29073	2209.841309	68162.37007	883199.5943	12.75060111
66	0.034627259	0.965372741	67057.44942	2322.015694	65896.44157	815037.2242	12.15431292
67	0.038475514	0.961524486	64735.43373	2490.729109	63490.06917	749140.7826	11.57234515
68	0.042793754	0.957206246	62244.70462	2663.684598	60912.86232	685650.7135	11.01540633
69	0.046951944	0.953048056	59581.02002	2797.44469	58182.29767	624737.8511	10.48551789
70	0.051070418	0.948929582	56783.57533	2899.960921	55333.59487	566555.5535	9.977454751
71	0.055042211	0.944957789	53883.61441	2965.873273	52400.67777	511221.9586	9.487521656
72	0.061794711	0.938205289	50917.74114	3146.44712	49344.51758	458821.2808	9.011029763
73	0.066201883	0.933798117	47771.29402	3162.549627	46190.0192	409476.7632	8.571607106
74	0.069646714	0.930353286	44608.74439	3106.85246	43055.31816	363286.744	8.143845988
75	0.074572249	0.925427751	41501.89193	3094.889432	39954.44721	320231.4259	7.716068135
76	0.079371071	0.920628929	38407.0025	3048.404924	36882.80004	280276.9787	7.297548896
77	0.086705175	0.913294825	35358.59757	3065.773381	33825.71088	243394.1786	6.883592544
78	0.097425038	0.902574962	32292.82419	3146.129636	30719.75937	209568.4677	6.4896296

79	0.104310307	0.895689693	29146.69456	3040.300659	27626.54423	178848.7084	6.136157499
80	0.112707707	0.887292293	26106.3939	2942.391803	24635.198	151222.1641	5.792533612
81	0.122473171	0.877526829	23164.00209	2836.968799	21745.51769	126586.9662	5.464814139
82	0.131670131	0.868329869	20327.03329	2676.463132	18988.80173	104841.4485	5.157734871
83	0.141659219	0.858340781	17650.57016	2500.365979	16400.38717	85852.64673	4.864015493
84	0.152080332	0.847919668	15150.20418	2304.048088	13998.18014	69452.25956	4.584245777
85	0.163260968	0.836739032	12846.1561	2097.275879	11797.51816	55454.07942	4.316783869
86	0.175401741	0.824598259	10748.88022	1885.372306	9806.194064	43656.56126	4.061498536
87	0.188301105	0.811698895	8863.507911	1669.008332	8029.003745	33850.3672	3.819071133
88	0.201990076	0.798009924	7194.499579	1453.217514	6467.890822	25821.36345	3.589042319
89	0.216498258	0.783501742	5741.282065	1242.977565	5119.793283	19353.47263	3.370932208
90	0.231853292	0.768146708	4498.304501	1042.946705	3976.831148	14233.67935	3.164232067
91	0.248080229	0.751919771	3455.357795	857.2059517	3026.754819	10256.8482	2.968389616
92	0.265200829	0.734799171	2598.151844	689.0320216	2253.635833	7230.093379	2.78278323
93	0.283232779	0.716767221	1909.119822	540.7253127	1638.757166	4976.457546	2.60667638
94	0.302188836	0.697811164	1368.394509	413.5135438	1161.637737	3337.700381	2.439136052
95	0.322075889	0.677924111	954.8809653	307.5441363	801.1088972	2176.062644	2.278883675
96	0.342893963	0.657106037	647.3368291	221.9678905	536.3528838	1374.953746	2.124015944
97	0.364635152	0.635364848	425.3689386	155.1044677	347.8167047	838.6008625	1.971467088
98	0.387282529	0.612717471	270.2644709	104.6687077	217.930117	490.7841578	1.81594035
99	0.410809017	0.589190983	165.5957632	68.0282326	131.5816469	272.8540408	1.647711485
100	0.435176283	0.564823717	97.56753055	42.45907526	76.33799292	141.2723939	1.447944753
101	0.460333671	0.539666329	55.10845529	25.36827751	42.42431654	64.93440103	1.178301963
102	0.486217221	0.513782779	29.74017778	14.46018659	22.51008449	22.51008449	0.75689139
103	0.512748832	0.487251168	15.27999119	15.27999119	0	0	0

vik	qx	px	lx	dx	Lx_1	Tx	ex
0	0.006934878	0.993065122	100000	693.4878124	99361.99121	7658357.001	76.58357001
1	0.000632084	0.999367916	99306.51219	62.77008069	99275.12715	7558995.009	76.11781788
2	0.000364172	0.999635828	99243.74211	36.14180037	99225.67121	7459719.882	75.16564494
3	0.00043362	0.99956638	99207.60031	43.0183994	99186.09111	7360494.211	74.19284599
4	0.000278756	0.999721244	99164.58191	27.64270241	99150.76056	7261308.12	73.22481455
5	0.000266156	0.999733844	99136.9392	26.38584543	99123.74628	7162157.359	72.24509266
6	0.00020974	0.99979026	99110.55336	20.78739876	99100.15966	7063033.613	71.2641931
7	0.000207436	0.999792564	99089.76596	20.55473973	99079.48859	6963933.453	70.27903826
8	0.000199251	0.999800749	99069.21122	19.73965004	99059.3414	6864853.965	69.29351592
9	0.000160413	0.999839587	99049.47157	15.88886218	99041.52714	6765794.623	68.30722583
10	0.000178865	0.999821135	99033.58271	17.71363011	99024.72589	6666753.096	67.31810477
11	0.00017835	0.99982165	99015.86908	17.6594868	99007.03934	6567728.37	66.33005832
12	0.000176008	0.999823992	98998.20959	17.42445907	98989.49736	6468721.331	65.34180121
13	0.000196762	0.999803238	98980.78513	19.47561927	98971.04732	6369731.834	64.35321588
14	0.00021661	0.99978339	98961.30951	21.43596309	98950.59153	6270760.786	63.36578221
15	0.000235571	0.999764429	98939.87355	23.30740621	98928.21985	6171810.195	62.37940249
16	0.000296742	0.999703258	98916.56614	29.35274113	98901.88977	6072881.975	61.39398295
17	0.000323419	0.999676581	98887.2134	31.98204713	98871.22238	5973980.085	60.41205814
18	0.000333064	0.999666936	98855.23136	32.92514505	98838.76878	5875108.863	59.43144113
19	0.000360137	0.999639863	98822.30621	35.58959095	98804.51142	5776270.094	58.45107563
20	0.000371729	0.999628271	98786.71662	36.72184263	98768.3557	5677465.583	57.47195349
21	0.000384597	0.999615403	98749.99478	37.97894559	98731.0053	5578697.227	56.49313946
22	0.000429563	0.999570437	98712.01583	42.40298855	98690.81434	5479966.222	55.51468254
23	0.00044075	0.99955925	98669.61284	43.48867838	98647.8685	5381275.407	54.53832494
24	0.000433601	0.999566399	98626.12416	42.76435145	98604.74199	5282627.539	53.56215286
25	0.000419024	0.999580976	98583.35981	41.30882777	98562.7054	5184022.797	52.58517063
26	0.00042138	0.99957862	98542.05099	41.52369847	98521.28914	5085460.091	51.60700473
27	0.000414704	0.999585296	98500.52729	40.84858017	98480.103	4986938.802	50.6285493
28	0.000412037	0.999587963	98459.67871	40.56906573	98439.39417	4888458.699	49.64934645
29	0.000439841	0.999560159	98419.10964	43.28878906	98397.46525	4790019.305	48.66960616
30	0.000462801	0.999537199	98375.82085	45.5239791	98353.05665	4691621.84	47.69080247
31	0.000505552	0.999494448	98330.29245	49.71110167	98305.4369	4593268.783	46.71265252
32	0.000581358	0.999418642	98280.58135	57.13618797	98252.01326	4494963.346	45.73602724
33	0.000646263	0.999353737	98223.44516	63.4782195	98191.70605	4396711.333	44.76234086
34	0.000657391	0.999342609	98159.96694	64.52943181	98127.70223	4298519.627	43.79096449
35	0.000777878	0.999222122	98095.43751	76.3062495	98057.28439	4200391.925	42.81944228
36	0.000785667	0.999214333	98019.13126	77.01040654	97980.62606	4102334.64	41.85238726
37	0.000886869	0.999113131	97942.12086	86.86186022	97898.68993	4004354.014	40.88490201
38	0.001009647	0.998990353	97855.259	98.79927302	97805.85936	3906455.324	39.92074994
39	0.001143821	0.998856179	97756.45972	111.8159219	97700.55176	3808649.465	38.96059121
40	0.00129925	0.99870075	97644.6438	126.8648354	97581.21138	3710948.913	38.00463363
41	0.001492403	0.998507597	97517.77897	145.5357882	97445.01107	3613367.702	37.05342493
42	0.001603095	0.998396905	97372.24318	156.0969796	97294.19469	3515922.691	36.10805889
43	0.001808511	0.998191489	97216.1462	175.8164575	97128.23797	3418628.496	35.16523365
44	0.00203483	0.99796517	97040.32974	197.4605917	96941.59945	3321500.258	34.22803969
45	0.00219933	0.99780067	96842.86915	212.9894535	96736.37442	3224558.659	33.29681046
46	0.002437629	0.997562371	96629.8797	235.547795	96512.1058	3127822.284	32.36910047
47	0.002587092	0.997412908	96394.3319	249.3810294	96269.64139	3031310.178	31.44697534
48	0.002887906	0.997112094	96144.95087	277.6576279	96006.12206	2935040.537	30.52724569
49	0.003160567	0.996839433	95867.29324	302.9950299	95715.79573	2839034.415	29.61421272
50	0.003359369	0.996640631	95564.29821	321.0357499	95403.78034	2743318.619	28.7065219
51	0.003593218	0.996406782	95243.26246	342.2298202	95072.14755	2647914.839	27.80159741
52	0.004001991	0.995998009	94901.03264	379.7930993	94711.13609	2552842.691	26.90005177
53	0.00439504	0.99560496	94521.23954	415.424621	94313.52723	2458131.555	26.00612907
54	0.005066805	0.994933195	94105.81492	476.815792	93867.40703	2363818.028	25.11872438
55	0.005590951	0.994409049	93628.99913	523.4751218	93367.26157	2269950.621	24.2440979
56	0.006013574	0.993986426	93105.52401	559.8969371	92825.57554	2176583.359	23.37759636
57	0.00640272	0.99359728	92545.62707	592.5437005	92249.35522	2083757.784	22.51600481
58	0.00716371	0.99283629	91953.08337	658.7252482	91623.72075	1991508.429	21.65787547
59	0.008036548	0.991963452	91294.35812	733.6915347	90927.51236	1899884.708	20.81053799
60	0.009050383	0.990949617	90560.66659	819.6087017	90150.86224	1808957.196	19.97508702
61	0.010020223	0.989979777	89741.05789	899.22537	89291.4452	1718806.333	19.15295377
62	0.01116859	0.98883141	88841.83252	992.2380374	88345.7135	1629514.888	18.34175232
63	0.012447912	0.987552088	87849.59448	1093.544	87302.82248	1541169.175	17.54327022
64	0.013876174	0.986123826	86756.05048	1203.842042	86154.12946	1453866.352	16.75809749
65	0.015471179	0.984528821	85552.20844	1323.593498	84890.41169	1367712.223	15.9868722
66	0.01710717	0.98289283	84228.61494	1440.913238	83508.15832	1282821.811	15.23023751
67	0.018930735	0.981069265	82787.7017	1567.232074	82004.08567	1199313.653	14.4866161
68	0.021263017	0.978736983	81220.46963	1726.992229	80356.97351	1117309.567	13.75650217
69	0.023436473	0.976563527	79493.4774	1863.046744	78561.95403	1036952.594	13.04449909
70	0.026358946	0.973641054	77630.43066	2046.256341	76607.30248	958390.6395	12.34555356
71	0.029410994	0.970589006	75584.17431	2223.00573	74472.67145	881783.337	11.6662429
72	0.034469853	0.965530147	73361.16858	2528.748707	72096.79423	807310.6655	11.00460477
73	0.037735702	0.962264298	70832.41988	2672.911054	69495.96435	735213.8713	10.3796238
74	0.041116543	0.958883457	68159.50882	2802.483378	66758.26713	665717.907	9.767058455
75	0.045071872	0.954928128	65357.02545	2945.763489	63884.1437	598959.6398	9.164426253
76	0.049729117	0.950270883	62411.26196	3103.656968	60859.43347	535075.4961	8.573380498
77	0.056583368	0.943416632	59307.60499	3355.824028	57629.69297	474216.0627	7.995872751
78	0.066170468	0.933829532	55951.78096	3702.35552	54100.6032	416586.3697	7.445453255

79	0.074225946	0.925774054	52249.42544	3878.26301	50310.29394	362485.7665	6.937602919
80	0.083004401	0.916995599	48371.16243	4015.019367	46363.65275	312175.4725	6.453751716
81	0.092583546	0.907416454	44356.14306	4106.649029	42302.81855	265811.8198	5.992672073
82	0.102850282	0.897149718	40249.49403	4139.671793	38179.65814	223509.0012	5.55308847
83	0.114805571	0.885194429	36109.82224	4145.608759	34037.01786	185329.3431	5.132380378
84	0.128406684	0.871593316	31964.21348	4104.418674	29912.00415	151292.3252	4.733178413
85	0.143028185	0.856971815	27859.79481	3984.735886	25867.42687	121380.3211	4.356827534
86	0.160052374	0.839947626	23875.05892	3821.259871	21964.42899	95512.89424	4.000530199
87	0.178966497	0.821033503	20053.79905	3588.95817	18259.31997	73548.46525	3.667557706
88	0.199328583	0.800671417	16464.84088	3281.91341	14823.88418	55289.14528	3.35801273
89	0.221701324	0.778298676	13182.92747	2922.672476	11721.59123	40465.2611	3.069520119
90	0.246199031	0.753800969	10260.255	2526.064837	8997.222578	28743.66987	2.801457652
91	0.272919839	0.727080161	7734.190159	2110.813931	6678.783194	19746.44729	2.55313703
92	0.301938385	0.698061615	5623.376228	1697.913136	4774.41966	13067.6641	2.3238111
93	0.333297221	0.666702779	3925.463093	1308.345939	3271.290123	8293.244436	2.112679254
94	0.366997032	0.633002968	2617.117154	960.4742275	2136.88004	5021.954313	1.918887852
95	0.402985887	0.597014113	1656.642927	667.6037196	1322.841067	2885.074273	1.741518481
96	0.441147932	0.558852068	989.0392069	436.3126007	770.8829065	1562.233206	1.579546286
97	0.481292188	0.518707812	552.7266062	266.0229975	419.7151074	791.3502997	1.431721019
98	0.523142424	0.476857576	286.7036087	149.9868207	211.7101983	371.6351923	1.296234791
99	0.566329382	0.433670618	136.716788	77.42673408	98.00342093	159.924994	1.169753886
100	0.610386968	0.389613032	59.2900539	36.18987624	41.19511577	61.92157304	1.044383821
101	0.654754243	0.345245757	23.10017765	15.12493933	15.53770799	20.72645727	0.897242332
102	0.698785148	0.301214852	7.975238325	5.572978091	5.188749279	5.188749279	0.650607426
103	0.741767672	0.258232328	2.402260234	2.402260234	0	0	0