

Contribution from Dr Jitka Rychtarikova

vik	qx	px	lx	dx	Lx_1	Tx	ex
0	0.068234323	0.931765677	100000	6823.432285	93722.4423	6231123.222	62.31123222
1	0.004942699	0.995057301	93176.56772	460.5437668	92946.29583	6137400.779	65.86850031
2	0.0025203	0.9974797	92716.02395	233.6721614	92599.18787	6044454.484	65.19320206
3	0.001759719	0.998240281	92482.35179	162.7429362	92400.98032	5951855.296	64.35666028
4	0.001197482	0.998802518	92319.60885	110.551024	92264.33334	5859454.315	63.46922813
5	0.001072015	0.998927985	92209.05783	98.84949297	92159.63308	5767189.982	62.54472302
6	0.00094239	0.99905761	92110.20833	86.80374473	92066.80646	5675030.349	61.61130728
7	0.000830489	0.999169511	92023.40459	76.42440925	91985.19238	5582963.543	60.66895229
8	0.00086181	0.99913819	91946.98018	79.24087057	91907.35974	5490978.35	59.71896347
9	0.000863034	0.999136966	91867.73931	79.28502832	91828.0968	5399070.99	58.77004301
10	0.00083963	0.99916037	91788.45428	77.06833108	91749.92012	5307242.894	57.82037551
11	0.000871735	0.999128265	91711.38595	79.9480378	91671.41193	5215492.974	56.86854385
12	0.000935278	0.999064722	91631.43791	85.70082862	91588.5875	5123821.562	55.91772516
13	0.000943155	0.999056845	91545.73708	86.34186265	91502.56615	5032232.974	54.96960464
14	0.001047416	0.998952584	91459.39522	95.79605926	91411.49719	4940730.408	54.02102645
15	0.001223336	0.998776664	91363.59916	111.7684061	91307.71496	4849318.911	53.07714402
16	0.001380712	0.998619288	91251.83076	125.992481	91188.83451	4758011.196	52.14154233
17	0.001681593	0.998318407	91125.83827	153.2365445	91049.22	4666822.361	51.212943
18	0.00196191	0.99803809	90972.60173	178.4800434	90883.36171	4575773.141	50.29836516
19	0.002261384	0.997738616	90794.12169	205.3203638	90691.4615	4484889.78	49.39625712
20	0.002326556	0.997673444	90588.80132	210.7599566	90483.42134	4394198.318	48.50708094
21	0.002316238	0.997683762	90378.04137	209.3370412	90273.37285	4303714.897	47.61903258
22	0.002243215	0.997756785	90168.70432	202.2677529	90067.57045	4213441.524	46.72842485
23	0.002232958	0.997767042	89966.43657	200.891258	89865.99094	4123373.953	45.83235827
24	0.002300371	0.997699629	89765.54531	206.4940768	89662.29828	4033507.962	44.93381005
25	0.002527335	0.997472665	89559.05124	226.3457497	89445.87836	3943845.664	44.03625998
26	0.002612245	0.997387755	89332.70549	233.3589481	89216.02601	3854399.786	43.1465695
27	0.002721932	0.997278068	89099.34654	242.5224031	88978.08534	3765183.76	42.25826458
28	0.002718725	0.997281275	88856.82414	241.5772972	88736.03549	3676205.675	41.37223798
29	0.002606522	0.997393478	88615.24684	230.9775926	88499.75804	3587469.639	40.4836613
30	0.002548318	0.997451682	88384.26925	225.2312104	88271.65364	3498969.881	39.58815195
31	0.002542322	0.997457678	88159.03804	224.1286359	88046.97372	3410698.227	38.68801547
32	0.002657405	0.997342595	87934.9094	233.6786474	87818.07008	3322651.254	37.78534914
33	0.002924866	0.997075134	87701.23075	256.5143586	87572.97357	3234833.184	36.88469541
34	0.003097297	0.996902703	87444.71639	270.842236	87309.29528	3147260.21	35.99142795
35	0.003184285	0.996815715	87173.87416	277.5864263	87035.08094	3059950.915	35.10169697
36	0.003150154	0.996849846	86896.28773	273.7366968	86759.41938	2972915.834	34.2122306
37	0.003106639	0.996893361	86622.55104	269.1050018	86487.99853	2886156.414	33.31876492
38	0.003267593	0.996732407	86353.44603	282.1679056	86212.36208	2799668.416	32.4210387
39	0.003566417	0.996433583	86071.27813	306.9660412	85917.79511	2713456.054	31.5256856
40	0.003911276	0.996088724	85764.31209	335.4479217	85596.58813	2627538.259	30.63673216
41	0.004403757	0.995596243	85428.86416	376.2079908	85240.76017	2541941.671	29.7550681
42	0.004816795	0.995183205	85052.65617	409.6811866	84847.81558	2456700.91	28.88447017
43	0.005231526	0.994768474	84642.97499	442.8119409	84421.56902	2371853.095	28.02185409
44	0.00563084	0.99436916	84200.16305	474.1176556	83963.10422	2287431.526	27.16659259
45	0.005929861	0.994070139	83726.04539	496.4838106	83477.80349	2203468.422	26.3175982
46	0.006270496	0.993729504	83229.56158	521.8906683	82968.61625	2119990.618	25.47160622
47	0.006829908	0.993170092	82707.67091	564.8857804	82425.22802	2037022.002	24.62917864
48	0.007748012	0.992251988	82142.78513	636.4433132	81824.56347	1954596.774	23.79511202
49	0.008694555	0.991305445	81506.34182	708.6613396	81152.01115	1872772.21	22.9770122
50	0.009667849	0.990332151	80797.68048	781.1398057	80407.11058	1791620.199	22.17415387
51	0.010897047	0.989102953	80016.54067	871.9440171	79580.56866	1711213.089	21.38574193
52	0.012081533	0.987918467	79144.59666	956.1880216	78666.50265	1631632.52	20.61584225
53	0.013390393	0.986609607	78188.40863	1046.973483	77664.92189	1552966.017	19.86184454
54	0.014960621	0.985039379	77141.43515	1154.08377	76564.39328	1475301.095	19.12462599
55	0.01604041	0.98395959	75987.3514	1218.868256	75377.91728	1398736.702	18.40749383
56	0.017016158	0.982983842	74768.48315	1272.272313	74132.34699	1323358.785	17.69941998
57	0.018030555	0.981969445	73496.21084	1325.177471	72833.6221	1249226.438	16.99715432
58	0.019778134	0.980221866	72171.03336	1427.408401	71457.32916	1176392.816	16.3006889
59	0.022049665	0.977950335	70743.62496	1559.873216	69963.68835	1104935.487	15.61887007
60	0.024434339	0.97556561	69183.75175	1690.462764	68338.52036	1034971.798	14.95975243
61	0.027296529	0.972703471	67493.28898	1842.332494	66572.12274	966633.2778	14.32191693
62	0.029649849	0.970350151	65650.95649	1946.540974	64677.686	900061.1551	13.709795
63	0.031666392	0.968333608	63704.41551	2017.288967	62695.77103	835383.4691	13.11343119
64	0.034219547	0.965780453	61687.12655	2110.905551	60631.67377	772687.6981	12.52591491
65	0.036611858	0.963388142	59576.221	2181.196148	58485.62292	712056.0243	11.9520173
66	0.03997438	0.96002562	57395.02485	2294.330515	56247.85959	653570.4014	11.38723092
67	0.042801813	0.957198187	55100.69433	2358.409637	53921.48952	597322.5418	10.84056288
68	0.045642723	0.954357277	52742.2847	2407.301466	51538.63396	543401.0523	10.30294868
69	0.049831389	0.950168611	50334.98323	2508.262117	49080.85217	491862.4183	9.771780713
70	0.054906964	0.945093036	47826.72111	2626.020031	46513.7111	442781.5661	9.258037261
71	0.059746095	0.940253905	45200.70108	2700.565362	43850.4184	396267.855	8.766851964
72	0.067631555	0.932368445	42500.13572	2874.35025	41062.9606	352417.4366	8.292148499
73	0.074020098	0.925979902	39625.78547	2933.10453	38159.23321	311354.476	7.857370456
74	0.081133725	0.918866275	36692.68094	2977.013902	35204.17399	273195.2428	7.445496917
75	0.087394197	0.912605803	33715.66704	2946.553633	32242.39022	237991.0689	7.058767919
76	0.092902956	0.907097044	30769.11341	2858.541589	29339.84261	205748.6786	6.686857561
77	0.098900577	0.901099423	27910.57182	2760.371669	26530.38598	176408.836	6.320502395
78	0.107210755	0.892789245	25150.20015	2696.371937	23802.01418	149878.45	5.959334286

79	0.115860033	0.884139967	22453.82821	2601.501289	21153.07757	126076.4359	5.61491941
80	0.125909773	0.874090227	19852.32692	2499.601982	18602.52593	104923.3583	5.285191942
81	0.13619622	0.86380378	17352.72494	2363.375549	16171.03717	86320.83236	4.974482835
82	0.146905726	0.853094274	14989.34939	2202.021255	13888.33877	70149.79519	4.679975985
83	0.158353779	0.841646221	12787.32814	2024.921735	11774.86727	56261.45642	4.39978202
84	0.170578133	0.829421867	10762.4064	1835.831191	9844.490807	44486.58915	4.133516937
85	0.183616208	0.816383792	8926.575212	1639.063888	8107.043268	34642.09835	3.880782666
86	0.197504609	0.802495391	7287.511325	1439.317076	6567.852787	26535.05508	3.64116828
87	0.212278565	0.787721435	5848.194249	1241.446285	5227.471106	19967.20229	3.414250868
88	0.227971271	0.772028729	4606.747964	1050.206189	4081.644869	14739.73118	3.199595745
89	0.244613135	0.755386865	3556.541775	869.9768322	3121.553359	10658.08632	2.996755553
90	0.262230924	0.737769076	2686.564943	704.500408	2334.314739	7536.532956	2.805267364
91	0.280846807	0.719153193	1982.064535	556.6564957	1703.736287	5202.218218	2.624646235
92	0.300477284	0.699522716	1425.408039	428.3027356	1211.256671	3498.481931	2.454372246
93	0.321132021	0.678867979	997.1053034	320.2024412	837.0040828	2287.22526	2.293865304
94	0.34281259	0.65718741	676.9028622	232.0508233	560.8774506	1450.221177	2.142436172
95	0.365511123	0.634488877	444.852039	162.5983683	363.5528548	889.3437261	1.999189951
96	0.389208914	0.610791086	282.2536707	109.8556446	227.3258484	525.7908713	1.862830942
97	0.413874986	0.586125014	172.3980261	71.35123064	136.7224107	298.4650229	1.731255454
98	0.439464671	0.560535329	101.0467954	44.40649672	78.84354706	161.7426122	1.600670378
99	0.465918248	0.534081752	56.6402987	26.38974871	43.44542434	82.89906512	1.463605719
100	0.4931597	0.5068403	30.25054998	14.91835215	22.79137391	39.45364078	1.304228875
101	0.521095674	0.478904326	15.33219783	7.989541961	11.33742685	16.66226688	1.086750058
102	0.549614712	0.450385288	7.342655871	4.035631693	5.324840024	5.324840024	0.725192644
103	0.578586867	0.421413133	3.307024178	3.307024178	0	0	0

vik	qx	px	lx	dx	Lx_1	Tx	ex
0	0.055608581	0.944391419	100000	5560.858109	94884.01054	6699790.947	66.99790947
1	0.004662803	0.995337197	94439.14189	440.3511425	94218.96632	6604906.936	69.9382354
2	0.002119167	0.997880833	93998.79075	199.1991064	93899.19119	6510687.97	69.26352901
3	0.001161758	0.998838242	93799.59164	108.9724531	93745.10542	6416788.779	68.40955986
4	0.000864865	0.999135135	93690.61919	81.02971905	93650.10433	6323043.673	67.48854611
5	0.000851601	0.999148399	93609.58947	79.71802582	93569.73046	6229393.569	66.5465323
6	0.000777682	0.999222318	93529.87144	72.7365238	93493.50318	6135823.839	65.60282553
7	0.000642448	0.999357552	93457.13492	60.04138848	93427.11423	6042330.335	64.65349425
8	0.000637001	0.999362999	93397.09353	59.49405569	93367.3465	5948903.221	63.69473606
9	0.00054736	0.99945264	93337.59948	51.08929702	93312.05483	5855535.875	62.73501684
10	0.000608544	0.999391456	93286.51018	56.76898085	93258.12569	5762223.82	61.76910047
11	0.000666336	0.999333664	93229.7412	62.12229956	93198.68005	5668965.694	60.80640814
12	0.00067957	0.99932043	93167.6189	63.31394048	93135.96193	5575767.014	59.84661924
13	0.000708346	0.999291654	93104.30496	65.95010111	93071.32991	5482631.052	58.88697687
14	0.000776713	0.999223287	93038.35486	72.26406248	93002.22283	5389559.722	57.92836439
15	0.000811576	0.999188424	92966.09079	75.44901334	92928.36629	5296557.499	56.9730044
16	0.00098575	0.99901425	92890.64178	91.56691141	92844.85833	5203629.133	56.01887374
17	0.001096987	0.998903013	92799.07487	101.7993452	92748.1752	5110784.275	55.07365544
18	0.00113111	0.99886889	92697.27552	104.8507824	92644.85013	5018036.1	54.13358776
19	0.001218659	0.998781341	92592.42474	112.8386131	92536.00544	4925391.25	53.19432192
20	0.001231317	0.998768683	92479.58613	113.8716625	92422.6503	4832855.244	52.2586167
21	0.001403181	0.998596819	92365.71447	129.6058272	92300.91155	4740432.594	51.32242652
22	0.001501685	0.998498315	92236.10864	138.5095584	92166.85386	4648131.682	50.3938398
23	0.001596001	0.998403999	92097.59908	146.9878187	92024.10517	4555964.828	49.4688773
24	0.001627413	0.998372587	91950.61126	149.6415834	91875.79047	4463940.723	48.54715659
25	0.00170378	0.99829622	91800.96968	156.4086154	91722.76537	4372064.933	47.62547659
26	0.001688031	0.998311969	91644.56106	154.6980885	91567.21164	4280342.167	46.70590505
27	0.001721537	0.998278463	91489.86222	157.5031981	91411.11062	4188774.956	45.78403393
28	0.001703639	0.998296361	91332.35902	155.5973599	91254.56034	4097363.845	44.86212651
29	0.001680865	0.998319135	91176.76166	153.2558057	91100.13375	4006109.285	43.93783253
30	0.001758702	0.998241298	91023.50585	160.0831811	90943.46426	3915009.151	43.01096859
31	0.001820011	0.998179989	90863.42267	165.372461	90780.73644	3824065.687	42.08586441
32	0.001925776	0.998074224	90698.05021	174.6641072	90610.71816	3733284.95	41.16168916
33	0.002065553	0.997934447	90523.3861	186.9808851	90429.89566	3642674.232	40.24014555
34	0.002246207	0.997753793	90336.40522	202.9142568	90234.94809	3552244.337	39.32240084
35	0.002375899	0.997624101	90133.49096	214.1480835	90026.41692	3462009.388	38.4098003
36	0.002529491	0.997470509	89919.34288	227.4501386	89805.61781	3371982.972	37.50008467
37	0.002569014	0.997430986	89691.89274	230.4197615	89576.68286	3282177.354	36.59391338
38	0.002656839	0.997343161	89461.47298	237.6847048	89342.63062	3192600.671	35.68687799
39	0.002825978	0.997174022	89223.78827	252.1444465	89097.71605	3103258.04	34.78061289
40	0.002954414	0.997045586	88971.64383	262.8590676	88840.21429	3014160.324	33.87776368
41	0.003119131	0.996880869	88708.78476	276.6942938	88570.43761	2925320.11	32.97666762
42	0.003289791	0.996710209	88432.09046	290.9230995	88286.62891	2836749.672	32.07828354
43	0.003609779	0.996390221	88141.16737	318.170122	87982.0823	2748463.043	31.18251239
44	0.003881617	0.996118383	87822.99724	340.8952015	87652.54964	2660480.961	30.29367073
45	0.004154397	0.995845603	87482.10204	363.4354129	87300.38434	2572828.411	29.40976899
46	0.004462049	0.995537951	87118.66663	388.7277831	86924.30274	2485528.027	28.53037269
47	0.004797554	0.995202446	86729.93885	416.0915684	86521.89306	2398603.724	27.65600618
48	0.005011808	0.994988192	86313.84728	432.5883929	86097.55308	2312081.831	26.78691663
49	0.005564267	0.994435733	85881.25888	477.8662892	85642.32574	2225984.278	25.91932521
50	0.005889124	0.994110876	85403.39259	502.9511287	85151.91703	2140341.952	25.06155654
51	0.006236174	0.993763826	84900.44147	529.4539629	84635.71448	2055190.035	24.20705947
52	0.006664472	0.993335528	84370.9875	562.2881031	84089.84345	1970554.321	23.35582858
53	0.007448409	0.992551591	83808.6994	624.2144667	83496.57867	1886464.477	22.50917257
54	0.008220357	0.991779643	83184.45793	683.8059059	82842.55498	1802967.899	21.67433609
55	0.009147606	0.990852394	82500.65203	754.683434	82123.31031	1720125.344	20.84983938
56	0.009863134	0.990136866	81745.96859	806.2714222	81342.83288	1638002.034	20.03771026
57	0.010937007	0.989062993	80939.69717	885.2380499	80497.07815	1556659.201	19.2323329
58	0.011868705	0.988131295	80054.45912	950.1427699	79579.38774	1476162.122	18.43947406
59	0.013123385	0.986876615	79104.31635	1038.116364	78585.25817	1396582.735	17.65494981
60	0.014533003	0.985466997	78066.19999	1134.536316	77498.93183	1317997.477	16.88307458
61	0.016077752	0.983922248	76931.66367	1236.888267	76313.21957	1240498.545	16.12468112
62	0.017833861	0.982166139	75694.77546	1349.930094	75019.81042	1164185.325	15.37999575
63	0.020265375	0.979734625	74344.84537	1506.626176	73591.53228	1089165.515	14.65018199
64	0.022327965	0.977672035	72838.21919	1626.329193	72025.0546	1015573.982	13.94287221
65	0.024480878	0.975519122	71211.89	1743.329604	70340.2252	943548.9279	13.24987903
66	0.027044507	0.972955493	69468.5604	1878.742945	68529.18892	873208.7027	12.56984019
67	0.030095191	0.969904809	67589.81745	2034.128499	66572.7532	804679.5138	11.9053364
68	0.03333478	0.96666522	65555.68895	2185.284501	64463.0467	738106.7606	11.25923276
69	0.038117075	0.961882925	63370.40445	2415.494486	62162.65721	673643.7139	10.63025745
70	0.042348548	0.957651452	60954.90997	2581.351924	59664.234	611481.0566	10.03169485
71	0.046830125	0.953169875	58373.55804	2733.641042	57006.73752	551816.8226	9.453198351
72	0.053343814	0.946656186	55639.917	2968.045387	54155.89431	494810.0851	8.893077341
73	0.060138614	0.939861386	52671.87161	3167.613344	51088.06494	440654.1908	8.366024926
74	0.066825567	0.933174433	49504.25827	3308.150133	47850.1832	389566.1259	7.869345779
75	0.073367388	0.926632612	46196.10814	3389.287804	44501.46423	341715.9427	7.397072101
76	0.079716996	0.920283004	42806.82033	3412.431119	41100.60477	297214.4784	6.943157098
77	0.088049635	0.911950365	39394.38921	3468.661609	37660.05841	256113.8737	6.501277943
78	0.097294842	0.902705158	35925.7276	3495.387985	34178.03361	218453.8153	6.080706775

79	0.10745528	0.89254472	32430.33962	3484.811215	30687.93401	184275.7816	5.682203264
80	0.118244739	0.881755261	28945.5284	3422.656444	27234.20018	153587.8476	5.306099287
81	0.129075261	0.870924739	25522.87196	3294.371367	23875.68628	126353.6475	4.950604605
82	0.141622344	0.858377656	22228.50059	3148.052354	20654.47442	102477.9612	4.610205746
83	0.155280746	0.844719254	19080.44824	2962.826229	17599.03512	81823.48676	4.288341958
84	0.170075182	0.829924818	16117.62201	2741.207494	14747.01826	64224.45163	3.984734943
85	0.186072736	0.813927264	13376.41452	2488.986051	12131.92149	49477.43337	3.69885617
86	0.203338664	0.796661336	10887.42846	2213.835163	9780.510884	37345.51188	3.43014992
87	0.221934866	0.778065134	8673.593302	1924.972769	7711.106918	27565.00099	3.178037064
88	0.241918064	0.758081936	6748.620533	1632.613213	5932.313927	19853.89408	2.941918868
89	0.263337657	0.736662343	5116.00732	1347.237383	4442.388629	13921.58015	2.721180655
90	0.286233248	0.713766752	3768.769938	1078.74726	3229.396308	9479.19152	2.515195057
91	0.310631823	0.689368177	2690.022677	835.6066471	2272.219354	6249.795213	2.323324359
92	0.336544614	0.663455386	1854.41603	624.0937275	1542.369167	3977.575859	2.144920985
93	0.363963676	0.636036324	1230.322303	447.7926278	1006.425989	2435.206692	1.979324187
94	0.392858232	0.607141768	782.5296751	307.4232249	628.8180626	1428.780703	1.825848589
95	0.423170915	0.576829085	475.1064502	201.0512311	374.5808346	799.9626403	1.683754536
96	0.454814024	0.545185976	274.055219	124.6441571	211.7331405	425.3818057	1.552175533
97	0.487666025	0.512333975	149.411062	72.86269871	112.9797126	213.6486652	1.429938737
98	0.52156852	0.47843148	76.54836326	39.9252165	56.58575501	100.6689526	1.315102614
99	0.556324017	0.443675983	36.62314676	20.37433613	26.4359787	44.08319759	1.203697702
100	0.59169486	0.40830514	16.24881063	9.614337724	11.44164177	17.64721889	1.086062192
101	0.6274037	0.3725963	6.634472908	4.162492847	4.553226484	6.205577122	0.93535345
102	0.66313595	0.33686405	2.471980061	1.639258847	1.652350637	1.652350637	0.668432025
103	0.698544592	0.301455408	0.832721214	0.832721214	0	0	0