

Contribution from Dr Jitka Rychtarikova

vik	qx	px	lx	dx	Lx_1	Tx	ex
0	0.006225828	0.993774172	100000	622.5827831	99427.22384	7037327.084	70.37327084
1	0.000561477	0.999438523	99377.41722	55.79812048	99349.51816	6937899.86	69.81364634
2	0.000189948	0.999810052	99321.6191	18.86597088	99312.18611	6838550.342	68.85258621
3	0.000453052	0.999546948	99302.75313	44.98935391	99280.25845	6739238.156	67.86557214
4	0.000289431	0.999710569	99257.76377	28.72827888	99243.39963	6639957.897	66.89610611
5	0.000288669	0.999711331	99229.03549	28.64430296	99214.71334	6540714.498	65.91532877
6	0.000235792	0.999764208	99200.39119	23.39070136	99188.69584	6441499.784	64.93421757
7	0.000245098	0.999754902	99177.00049	24.30809333	99164.84644	6342311.088	63.94941425
8	0.000271206	0.999728794	99152.6924	26.89082254	99139.24698	6243146.242	62.96496939
9	0.000232407	0.999767593	99125.80157	23.03748172	99114.28283	6144006.995	61.98191487
10	0.000266314	0.999733686	99102.76409	26.39246992	99089.56786	6044892.712	60.99620699
11	0.000242506	0.999757494	99076.37162	24.02662223	99064.35831	5945803.144	60.01232228
12	0.000208112	0.999791888	99052.345	20.61394784	99042.03802	5846738.786	59.02675788
13	0.000214117	0.999785883	99031.73105	21.20437606	99021.12886	5747696.748	58.03894052
14	0.000284383	0.999715617	99010.52667	28.15693189	98996.44821	5648675.619	57.05126322
15	0.00040396	0.99959604	98982.36974	39.98491746	98962.37728	5549679.171	56.06735003
16	0.000645956	0.999354044	98942.38483	63.91239783	98910.42863	5450716.794	55.08980608
17	0.000853878	0.999146122	98878.47243	84.43019367	98836.25733	5351806.365	54.12509147
18	0.000924531	0.999075469	98794.04223	91.33814731	98748.37316	5252970.108	53.17091991
19	0.000989999	0.999010001	98702.70409	97.71559345	98653.84629	5154221.734	52.21966087
20	0.000952146	0.999047854	98604.98849	93.88634315	98558.04532	5055567.888	51.27091403
21	0.000938042	0.999061958	98511.10215	92.40758249	98464.89836	4957009.843	50.31930143
22	0.000893692	0.999106308	98418.69457	87.95597823	98374.71658	4858544.944	49.36607792
23	0.000994137	0.999005863	98330.73859	97.7542146	98281.86148	4760170.228	48.40978819
24	0.000992436	0.999007564	98232.98437	97.48997709	98184.23939	4661888.366	47.45746448
25	0.001046418	0.998953582	98135.4944	102.6906992	98084.14905	4563704.127	46.50411306
26	0.001113711	0.998886289	98032.8037	109.1802575	97978.21357	4465619.978	45.552303
27	0.001162015	0.998837985	97923.62344	113.7887005	97866.72909	4367641.764	44.60253421
28	0.001160616	0.998839384	97809.83474	113.5196691	97753.07491	4269775.035	43.65384163
29	0.001206199	0.998793801	97696.31507	117.8411929	97637.39447	4172021.96	42.70398487
30	0.001219007	0.998780993	97578.47388	118.948827	97518.99946	4074384.566	41.75495275
31	0.00130389	0.99869611	97459.52505	127.0765013	97395.9868	3976865.566	40.8053042
32	0.001419266	0.998580734	97332.44855	138.1406272	97263.37824	3879469.58	39.85792649
33	0.001503726	0.998496274	97194.30792	146.1536069	97121.23112	3782206.201	38.91386525
34	0.001600593	0.998399407	97048.15432	155.3345698	96970.48703	3685084.97	37.97171617
35	0.001659507	0.998340493	96892.81975	160.7943575	96812.42257	3588114.483	37.03178928
36	0.001873086	0.998126914	96732.02539	181.1874126	96641.43168	3491302.061	36.09251483
37	0.00215248	0.99784752	96550.83798	207.823788	96446.92608	3394660.629	35.15930778
38	0.002443304	0.997556696	96343.01419	235.3952904	96225.31654	3298213.703	34.23407219
39	0.002721711	0.997278289	96107.6189	261.5771273	95976.83033	3201988.386	33.31669667
40	0.002905045	0.997094955	95846.04177	278.437086	95706.82323	3106011.556	32.40625798
41	0.002998938	0.997001062	95567.60468	286.6013435	95424.30401	3010304.733	31.49921715
42	0.003338259	0.996661741	95281.00334	318.0726603	95121.96701	2914880.429	30.59246153
43	0.003811684	0.996188316	94962.93068	361.9686838	94781.94634	2819758.462	29.69325443
44	0.004345553	0.995654447	94600.962	411.0934807	94395.41526	2724976.515	28.80495566
45	0.004915793	0.995084207	94189.86852	463.0178561	93958.35959	2630581.1	27.92849318
46	0.005472233	0.994527767	93726.85066	512.8951584	93470.40308	2536622.741	27.06399204
47	0.005897215	0.994102785	93213.9555	549.7027319	92939.10414	2443152.338	26.21015624
48	0.006585342	0.993414658	92664.25277	610.2257825	92359.13988	2350213.233	25.36267399
49	0.007403635	0.992596365	92054.02699	681.5343788	91713.2598	2257854.094	24.52748856
50	0.008394322	0.991605678	91372.49261	767.0101277	90988.98754	2166140.834	23.70670616
51	0.009557479	0.990442521	90605.48248	865.9599763	90172.50249	2075151.846	22.90315982
52	0.01055167	0.98944833	89739.5225	946.90186	89266.07157	1984979.344	22.11934372
53	0.011321385	0.988678615	88792.62064	1005.25543	88289.99293	1895713.272	21.34989663
54	0.012235457	0.987764543	87787.36521	1074.11852	87250.30595	1807423.279	20.58864934
55	0.01316469	0.98683531	86713.24669	1141.552996	86142.4702	1720172.973	19.8374878
56	0.014105697	0.985894303	85571.6937	1207.04841	84968.16949	1634030.503	19.0954559
57	0.015103149	0.984896851	84364.64529	1274.171838	83727.55937	1549062.334	18.36151066
58	0.017250815	0.982749185	83090.47345	1433.378392	82373.78425	1465334.774	17.6354125
59	0.018742898	0.981257102	81657.09506	1530.490593	80891.84976	1382960.99	16.93620118
60	0.021021486	0.978978514	80126.60446	1684.380293	79284.41432	1302069.14	16.25014749
61	0.023090601	0.976909399	78442.22417	1811.278072	77536.58514	1222784.726	15.58834848
62	0.024706108	0.975293892	76630.9461	1893.252468	75684.31987	1145248.141	14.9449824
63	0.026658176	0.973341824	74737.69363	1992.370557	73741.50835	1069563.821	14.31090216
64	0.029303838	0.970696162	72745.32307	2131.717146	71679.4645	995822.3125	13.68915925
65	0.031308207	0.968691793	70613.60593	2210.785409	69508.21322	924142.848	13.08731987
66	0.033667384	0.966332616	68402.82052	2302.944011	67251.34851	854634.6348	12.4941432
67	0.036591672	0.963408328	66099.87651	2418.704998	64890.52401	787383.2863	11.91202356
68	0.040089441	0.959910559	63681.17151	2552.942576	62404.70022	722492.7623	11.34546908
69	0.044299632	0.955700368	61128.22893	2707.958048	59774.24991	660088.062	10.79841627
70	0.048424772	0.951575228	58420.27089	2828.988302	57005.77674	600313.8121	10.27577933
71	0.052499019	0.947500981	55591.28258	2918.487795	54132.03869	543308.0354	9.773259586
72	0.057145484	0.942854516	52672.79479	3010.012328	51167.78863	489175.9967	9.287071223
73	0.0607357	0.9392643	49662.78246	3016.303864	48154.63053	438008.2081	8.819646954
74	0.067528439	0.932471561	46646.4786	3149.963906	45071.49664	389853.5775	8.357620752
75	0.072182643	0.927817357	43496.51469	3139.693409	41926.66799	344782.0809	7.926659948
76	0.077234912	0.922765088	40356.82128	3116.955524	38798.34352	302855.4129	7.50444171
77	0.083697455	0.916302545	37239.86576	3116.882003	35681.42476	264057.0694	7.090709486
78	0.090531743	0.909468257	34122.98376	3089.213183	32578.37716	228375.6446	6.692722016

79	0.097977242	0.902022758	31033.77057	3040.60326	29513.46894	195797.2675	6.309167847
80	0.107585724	0.892414276	27993.16731	3011.665184	26487.33472	166283.7985	5.940156634
81	0.116454112	0.883545888	24981.50213	2909.198644	23526.90281	139796.4638	5.595999115
82	0.126599129	0.873400871	22072.30349	2794.334405	20675.13628	116269.561	5.267667739
83	0.137143466	0.862856534	19277.96908	2643.847494	17956.04533	95594.42472	4.958739394
84	0.147976395	0.852023605	16634.12159	2461.457351	15403.39291	77638.37938	4.66741685
85	0.158606268	0.841393732	14172.66424	2247.873377	13048.72755	62234.98647	4.39119882
86	0.170479201	0.829520799	11924.79086	2032.928813	10908.32645	49186.25892	4.124706211
87	0.183655788	0.816344212	9891.862047	1816.697716	8983.513189	38277.93247	3.869638728
88	0.197711658	0.802288342	8075.164331	1596.554127	7276.887268	29294.41928	3.627718035
89	0.212684315	0.787315685	6478.610204	1377.898772	5789.660818	22017.53201	3.398496177
90	0.22860913	0.77139087	5100.711432	1166.069202	4517.676831	16227.87119	3.181491721
91	0.24551852	0.75448148	3934.64223	966.0275378	3451.628461	11710.19436	2.976177675
92	0.263441013	0.736558987	2968.614692	782.0548624	2577.587261	8258.565902	2.781959519
93	0.282400192	0.717599808	2186.55983	617.4849149	1877.817372	5680.978641	2.598135465
94	0.30241352	0.69758648	1569.074915	474.5094685	1331.820181	3803.161268	2.423823893
95	0.323491058	0.676508942	1094.565446	354.0821344	917.5243792	2471.341087	2.257828525
96	0.345634064	0.654365936	740.483312	255.9362566	612.5151837	1553.816708	2.098381804
97	0.368833514	0.631166486	484.5470554	178.7171933	395.1884588	941.3015245	1.942642131
98	0.393068553	0.606931447	305.8298621	120.2121013	245.7238114	546.1130658	1.785676068
99	0.418304914	0.581695086	185.6177608	77.64482138	146.7953501	300.3892543	1.618321722
100	0.444493356	0.555506644	107.9729394	47.99325423	83.97631228	153.5939042	1.422522209
101	0.471568179	0.528431821	59.97968516	28.28451091	45.83742971	69.61759195	1.160686185
102	0.499445874	0.500554126	31.69517425	15.83002402	23.78016224	23.78016224	0.750277063
103	0.528024024	0.471975976	15.86515023	15.86515023	0	0	0

vik	qx	px	lx	dx	Lx_1	Tx	ex
0	0.005822433	0.994177567	100000	582.2432783	99464.33618	7726792.845	77.26792845
1	0.000510272	0.999489728	99417.75672	50.73007366	99392.39168	7627328.509	76.71998203
2	0.000472375	0.999527625	99367.02665	46.93851211	99343.55739	7527936.117	75.75889479
3	0.000221985	0.999778015	99320.08814	22.0475755	99309.06435	7428592.56	74.79446202
4	0.000196684	0.999803316	99298.04056	19.53036046	99288.27538	7329283.495	73.81095794
5	0.000141584	0.999858416	99278.5102	14.0562499	99271.48207	7229995.22	72.82537989
6	0.000166199	0.999833801	99264.45395	16.49764427	99256.20513	7130723.738	71.83562146
7	0.000180124	0.999819876	99247.95631	17.87695731	99239.01783	7031467.533	70.84747933
8	0.000161109	0.999838891	99230.07935	15.98684805	99222.08592	6932228.515	69.86015289
9	0.000121679	0.999878321	99214.0925	12.07228611	99208.05636	6833006.429	68.87132923
10	0.000111028	0.999888972	99202.02021	11.01421136	99196.51311	6733798.373	67.87964961
11	0.000106177	0.999893823	99191.006	10.53180419	99185.7401	6634601.86	66.88713147
12	0.000138693	0.999861307	99180.4742	13.75560086	99173.5964	6535416.12	65.89418101
13	0.000165604	0.999834396	99166.7186	16.42241785	99158.50739	6436242.523	64.90325196
14	0.000171038	0.999828962	99150.29618	16.9585035	99141.81693	6337084.016	63.91391917
15	0.000187319	0.999812681	99133.33768	18.56953431	99124.05291	6237942.199	62.92476724
16	0.000217606	0.999782394	99114.76814	21.56797332	99103.98416	6138818.146	61.93646276
17	0.000259574	0.999740426	99093.20017	25.72204969	99080.33914	6039714.162	60.94983461
18	0.00029987	0.99970013	99067.47812	29.70735968	99052.62444	5940633.823	59.96552991
19	0.000322274	0.999677726	99037.77076	31.9172672	99021.81213	5841581.198	58.98336719
20	0.000332995	0.999667005	99005.85349	32.96845291	98989.36927	5742559.386	58.00222091
21	0.000363678	0.999636322	98972.88504	35.99422738	98954.88793	5643570.017	57.02137524
22	0.000370176	0.999629824	98936.89081	36.62405686	98918.57878	5544615.129	56.04193828
23	0.000368975	0.999631025	98900.26676	36.4917566	98882.02088	5445696.55	55.06250619
24	0.000394328	0.999605672	98863.775	38.98476129	98844.28262	5346814.529	54.08264583
25	0.000379122	0.999620878	98824.79024	37.46661919	98806.05693	5247970.247	53.10378331
26	0.000347267	0.999652733	98787.32362	34.30560766	98770.17081	5149164.19	52.12373411
27	0.000322907	0.999677093	98753.01801	31.88808031	98737.07397	5050394.019	51.14166757
28	0.00032466	0.99967534	98721.12993	32.05084848	98705.10451	4951656.945	50.15802542
29	0.000343271	0.999656729	98689.07908	33.87710929	98672.14053	4852951.84	49.17415266
30	0.000439158	0.999560842	98655.20197	43.32522493	98633.53936	4754279.7	48.19086682
31	0.000494209	0.999505791	98611.87675	48.7348618	98587.50932	4655646.16	47.21181985
32	0.000559522	0.999440478	98563.14189	55.14826808	98535.56775	4557058.651	46.23491666
33	0.000560499	0.999439501	98507.99362	55.2136574	98480.38679	4458523.083	45.26052069
34	0.000617537	0.999382463	98452.77996	60.79824736	98422.38084	4360042.697	44.285623
35	0.000657674	0.999342326	98391.98171	64.7098519	98359.62679	4261620.316	43.31267896
36	0.00077865	0.99922135	98327.27186	76.56249713	98288.99061	4163260.689	42.34085427
37	0.000870794	0.999129206	98250.70936	85.55613297	98207.9313	4064971.698	41.37345903
38	0.001004859	0.998995141	98165.15323	98.64211403	98115.83217	3966763.767	40.40908241
39	0.001152316	0.998847684	98066.51112	113.0035815	98010.00933	3868647.935	39.44922574
40	0.001270701	0.998729299	97953.50754	124.4696642	97891.2727	3770637.926	38.49415933
41	0.001378115	0.998621885	97829.03787	134.819632	97761.62806	3672746.653	37.54249999
42	0.001421874	0.998578126	97694.21824	138.9088997	97624.76379	3574985.025	36.59361925
43	0.001557371	0.998442629	97555.30934	151.9298094	97479.34443	3477360.261	35.64501291
44	0.001744168	0.998255832	97403.37953	169.8878765	97318.43559	3379880.917	34.69983211
45	0.00202562	0.99797438	97233.49165	196.958115	97135.0126	3282562.481	33.75958659
46	0.002292029	0.997707971	97036.53354	222.4105057	96925.32829	3185427.468	32.82709462
47	0.002523496	0.997476504	96814.12303	244.3100554	96691.968	3088502.14	31.90135946
48	0.002669565	0.997330435	96569.81298	257.7993794	96440.91329	2991810.172	30.98080114
49	0.003001666	0.996998334	96312.0136	289.0964781	96167.46536	2895369.259	30.06238942
50	0.003335437	0.996664563	96022.91712	320.2783773	95862.77793	2799201.793	29.15139299
51	0.003678841	0.996321159	95702.63874	352.0747734	95526.60136	2703339.016	28.24727732
52	0.004035123	0.995964877	95350.56397	384.7512528	95158.18834	2607812.414	27.34973246
53	0.004301505	0.995698495	94965.81272	408.4959473	94761.56474	2512654.226	26.45851337
54	0.004727646	0.995272354	94557.31677	447.0335507	94333.79999	2417892.661	25.57065644
55	0.005168764	0.994831236	94110.28322	486.4338613	93867.06629	2323558.861	24.68974464
56	0.005637525	0.994362475	93623.84936	527.8067572	93359.94598	2229691.795	23.81542534
57	0.006166877	0.993833123	93096.0426	574.1118233	92808.98669	2136331.849	22.94761183
58	0.006702546	0.993297454	92521.93078	620.1324625	92211.86455	2043522.862	22.08690248
59	0.007406555	0.992593445	91901.79831	680.6757655	91561.46043	1951310.998	21.23256599
60	0.00835539	0.99164461	91221.12255	762.1880491	90840.02852	1859749.537	20.38726871
61	0.00968415	0.99031585	90458.9345	876.0179071	90020.92555	1768909.509	19.55483467
62	0.010569153	0.989430847	89582.91659	946.8155076	89109.50884	1678888.583	18.74116904
63	0.011618382	0.988381618	88636.10108	1029.808112	88121.19703	1589779.074	17.93602217
64	0.012815815	0.987184185	87606.29297	1122.746061	87044.91994	1501657.877	17.14098184
65	0.014410792	0.985589208	86483.54691	1246.296384	85860.39872	1414612.957	16.35701827
66	0.015861144	0.984138856	85237.25053	1351.960301	84561.27038	1328752.559	15.58887165
67	0.017801086	0.982198914	83885.29023	1493.249258	83138.6656	1244191.288	14.83205559
68	0.01942644	0.98057356	82392.04097	1600.584012	81591.74896	1161052.623	14.09180558
69	0.021272729	0.978272771	80791.45696	1755.374509	79913.7697	1079460.874	13.36107695
70	0.024430688	0.975569312	79036.08245	1930.905872	78070.62951	999547.1039	12.64671873
71	0.027879587	0.972120413	77105.17658	2149.66045	76030.34635	921476.4744	11.95090285
72	0.031924869	0.968075131	74955.51613	2392.945022	73759.04362	845446.128	11.279305
73	0.0356622	0.9643378	72562.5711	2587.740897	71268.70066	771687.0844	10.63478144
74	0.041562379	0.958437621	69974.83021	2908.320415	68520.67	700418.3838	10.00957604
75	0.045698431	0.954301569	67066.50979	3064.834296	65534.09264	631897.7138	9.421956141
76	0.050513462	0.949486538	64001.6755	3232.946201	62385.2024	566363.6211	8.849199911
77	0.056513626	0.943486374	60768.7293	3434.261251	59051.59867	503978.4187	8.293384189
78	0.061983834	0.938016166	57334.46804	3553.810173	55557.56296	444926.8201	7.760197927

79	0.069488618	0.930511382	53780.65787	3737.14361	51912.08607	389369.2571	7.239949686
80	0.078746893	0.921253107	50043.51426	3940.771263	48073.12863	337457.171	6.743274848
81	0.087280611	0.912719389	46102.743	4023.875591	44090.8052	289384.0424	6.27693763
82	0.097053784	0.902946216	42078.86741	4083.913293	40036.91076	245293.2372	5.829368809
83	0.107989261	0.892010739	37994.95412	4103.047012	35943.43061	205256.3264	5.402199613
84	0.120033438	0.879966562	33891.9071	4068.162113	31857.82605	169312.8958	4.995673312
85	0.134277564	0.865722436	29823.74499	4004.659824	27821.41508	137455.0698	4.608913797
86	0.150062264	0.849937736	25819.08517	3874.47037	23881.84998	109633.6547	4.246225379
87	0.166882323	0.833117677	21944.6148	3662.168305	20113.53064	85751.80471	3.907646842
88	0.185379155	0.814620845	18282.44649	3389.18449	16587.85425	65638.27407	3.590234715
89	0.205666801	0.794333199	14893.262	3063.04955	13361.73723	49050.41982	3.293463837
90	0.227853388	0.772146612	11830.21245	2695.553992	10482.43546	35688.6826	3.016740633
91	0.252036757	0.747963243	9134.658459	2302.269699	7983.52361	25206.24714	2.759407728
92	0.278299136	0.721700864	6832.388761	1901.447887	5881.664817	17222.72353	2.520747009
93	0.306700817	0.693299183	4930.940874	1512.323593	4174.779077	11341.05872	2.299978646
94	0.337272839	0.662727161	3418.617281	1153.006757	2842.113902	7166.279638	2.096250925
95	0.370008752	0.629991248	2265.610524	838.2957213	1846.462663	4324.165735	1.908609485
96	0.404855647	0.595144353	1427.314802	577.8564583	1138.386573	2477.703072	1.735919132
97	0.441704828	0.558295172	849.458344	375.2098516	661.8534182	1339.316499	1.576671191
98	0.480382612	0.519617388	474.2484924	227.8207295	360.3381276	677.4630811	1.428498123
99	0.520642054	0.479357946	246.4277629	128.3006566	182.2774346	317.1249535	1.286888092
100	0.562156558	0.437843442	118.1271063	66.40592753	84.92414253	134.8475189	1.141545942
101	0.604516621	0.395483379	51.72117877	31.26631223	36.08802265	49.92337635	0.965240498
102	0.647231096	0.352768904	20.45486654	13.23902569	13.83535369	13.83535369	0.676384452
103	0.68973446	0.31026554	7.215840852	7.215840852	0	0	0