

Contribution from Dr Jitka Rychtarikova

vik	qx	px	lx	dx	Lx_1	Tx	ex
0	0.017717833	0.982282167	100000	1771.783277	98369.95939	6718244.991	67.18244991
1	0.00094581	0.99905419	98228.21672	92.90521691	98181.76411	6619875.032	67.39280476
2	0.000599761	0.999400239	98135.31151	58.85775309	98105.88263	6521693.268	66.45613253
3	0.000430433	0.999569567	98076.45375	42.21531168	98055.3461	6423587.385	65.4957142
4	0.00043365	0.99956635	98034.23844	42.51258081	98012.98215	6325532.039	64.52370253
5	0.000444663	0.999555337	97991.72586	43.5732462	97969.93924	6227519.057	63.55147848
6	0.000472873	0.999527127	97948.15261	46.3170203	97924.9941	6129549.118	62.57952758
7	0.000480395	0.999519605	97901.83559	47.0315746	97878.31981	6031624.124	61.60889719
8	0.000451448	0.999548552	97854.80402	44.17633479	97832.71585	5933745.804	60.63826772
9	0.000428087	0.999571913	97810.62768	41.87142389	97789.69197	5835913.088	59.66542927
10	0.000347918	0.999652082	97768.75626	34.01547684	97751.74852	5738123.396	58.69076805
11	0.00028598	0.99971402	97734.74078	27.95021115	97720.76568	5640371.647	57.71102069
12	0.00027892	0.99972108	97706.79057	27.25238484	97693.16438	5542650.882	56.72738659
13	0.00033345	0.99966655	97679.53819	32.57122958	97663.25257	5444957.717	55.74307392
14	0.000386702	0.999613298	97646.96696	37.76029365	97628.08681	5347294.465	54.76150086
15	0.000537207	0.999462793	97609.20666	52.43631609	97582.98851	5249666.378	53.78249201
16	0.000746729	0.999253271	97556.77035	72.84851357	97520.34609	5152083.389	52.81113111
17	0.001001865	0.998998135	97483.92184	97.66575774	97435.08896	5054563.043	51.85022256
18	0.001189068	0.998810932	97386.25608	115.7988726	97328.35664	4957127.954	50.90172016
19	0.001196247	0.998803753	97270.4572	116.3595108	97212.27745	4859799.598	49.96172258
20	0.001096882	0.998903118	97154.09769	106.5665761	97100.81441	4762587.32	49.02096189
21	0.001091347	0.998908653	97047.53112	105.9125487	96994.57484	4665486.506	48.0742421
22	0.001156903	0.998843097	96941.61857	112.1520331	96885.54255	4568491.931	47.12621884
23	0.001253771	0.998746229	96829.46654	121.4019547	96768.76556	4471606.389	46.18022332
24	0.001350505	0.998649495	96708.06458	130.6047477	96642.76221	4374837.623	45.23756774
25	0.001299419	0.998700581	96577.45983	125.4946011	96514.71253	4278194.861	44.29806777
26	0.001305606	0.998694394	96451.96523	125.9282926	96389.00109	4181860.148	43.35505387
27	0.00132343	0.99867657	96326.03694	127.4807532	96262.29656	4085291.147	42.41107884
28	0.001385923	0.998614077	96198.55619	133.3237469	96131.89431	3989028.851	41.46661872
29	0.001531061	0.998468939	96065.23244	147.0817469	95991.69157	3892896.956	40.52347407
30	0.00169171	0.99830829	95918.15069	162.2657288	95837.01783	3796905.265	39.58484643
31	0.001757297	0.998242703	95755.88496	168.2715307	95671.7492	3701068.247	38.65107871
32	0.001772152	0.998227848	95587.61343	169.3958274	95502.91552	3605396.498	37.71823951
33	0.001786424	0.998213576	95418.21761	170.4573568	95332.98893	3509893.582	36.784313
34	0.001962691	0.998037309	95247.76025	186.9419337	95154.28928	3414560.593	35.84924815
35	0.002241528	0.997758472	95060.81832	213.0815224	94954.27755	3319406.304	34.91876425
36	0.00241533	0.99758467	94847.73679	229.0885619	94733.19251	3224452.026	33.99608821
37	0.002542829	0.997457171	94618.64823	240.5990755	94498.34869	3129718.834	33.07718819
38	0.002633335	0.997366665	94378.04916	248.5290614	94253.78463	3035220.485	32.1602376
39	0.002929515	0.997070485	94129.52009	275.753815	93991.64319	2940966.701	31.24382975
40	0.003206832	0.996793168	93853.76628	300.9732454	93703.27966	2846975.057	30.33415888
41	0.003654956	0.996345044	93552.79303	341.9313108	93381.82738	2753271.778	29.4301398
42	0.00411785	0.99588215	93210.86172	383.8283442	93018.94755	2659889.95	28.53626607
43	0.004593039	0.995406961	92827.03338	426.3582199	92613.85427	2566871.003	27.65219257
44	0.005141357	0.994858643	92400.67516	475.0648936	92163.14271	2474257.148	26.77747911
45	0.005804532	0.994195468	91925.61027	533.5851156	91658.81771	2382094.006	25.91327921
46	0.006165197	0.993834803	91392.02515	563.4498411	91110.30023	2290435.188	25.06165264
47	0.006603812	0.993396188	90828.57531	599.8148709	90528.66787	2199324.888	24.21401944
48	0.007369919	0.992630081	90228.76044	664.9786222	89896.27113	2108796.22	23.37166342
49	0.008186066	0.991813934	89563.78182	733.1749955	89197.19432	2018899.949	22.54147723
50	0.009424135	0.990575865	88830.60682	837.1516378	88412.031	1929702.755	21.72339944
51	0.010765047	0.989234953	87993.45518	947.2537211	87519.82832	1841290.724	20.9253145
52	0.011658722	0.988341278	87046.20146	1014.847423	86538.77775	1753770.895	20.14758675
53	0.012725824	0.987274176	86031.35404	1094.819862	85483.94411	1667232.117	19.37935461
54	0.014184769	0.985815231	84936.53418	1204.805148	84334.1316	1581748.173	18.62270681
55	0.015435077	0.984564923	83731.72903	1292.405652	83085.5262	1497414.042	17.88347212
56	0.017591184	0.982408816	82439.32338	1450.20528	81714.22074	1414328.516	17.15599374
57	0.019810359	0.980189641	80989.1181	1604.423466	80186.90636	1332614.295	16.45423887
58	0.021282136	0.978717864	79384.69463	1689.475887	78539.95669	1252427.388	15.77668585
59	0.024219634	0.975780366	77695.21874	1881.749773	76754.34386	1173887.432	15.10887608
60	0.025949266	0.974050734	75813.46897	1967.303884	74829.81703	1097133.088	14.47147984
61	0.027375606	0.972624394	73846.16509	2021.583546	72835.37331	1022303.271	13.84368802
62	0.029813556	0.970186444	71824.58154	2141.346193	70753.90844	949467.8975	13.21926111
63	0.03212939	0.96787061	69683.23535	2238.879876	68563.79541	878713.9891	12.61012042
64	0.03475726	0.96524274	67444.35547	2344.18099	66272.26498	810150.1937	12.01212745
65	0.038394996	0.961605004	65100.17448	2499.520948	63850.41401	743877.9287	11.42666567
66	0.040821599	0.959178401	62600.65354	2555.458802	61322.92413	680027.5147	10.86294593
67	0.044425285	0.955574715	60045.19473	2667.524864	58711.4323	618704.5906	10.30398175
68	0.048344005	0.951655995	57377.66987	2773.86635	55990.73669	559993.1583	9.75977518
69	0.05294791	0.94705209	54603.80352	2891.157278	53158.22488	504002.4216	9.230170594
70	0.058320508	0.941679492	51712.64624	3015.907802	50204.69234	450844.1967	8.718258095
71	0.064690082	0.935309918	48696.73844	3150.19602	47121.64043	400639.5044	8.227234866
72	0.071406661	0.928593339	45546.54242	3252.326501	43920.37917	353517.8639	7.761683876
73	0.078459834	0.921540166	42294.21592	3318.397142	40635.01735	309597.4848	7.32009042
74	0.085699116	0.914300884	38975.81878	3340.193203	37305.72218	268962.4674	6.900752206
75	0.093865777	0.906134223	35635.62557	3344.965681	33963.14273	231656.7452	6.500706568
76	0.101040984	0.898959016	32290.65989	3262.680063	30659.31986	197693.6025	6.122315343
77	0.111088848	0.888911152	29027.97983	3224.684847	27415.63741	167034.2826	5.754251023
78	0.120288536	0.879711464	25803.29498	3103.840584	24251.37469	139618.6452	5.410884359

79	0.130038659	0.869961341	22699.4544	2951.80662	21223.55109	115367.2705	5.08238077
80	0.140679625	0.859320375	19747.64778	2778.091692	18358.60193	94143.71945	4.767338394
81	0.152280531	0.847719469	16969.55609	2584.133019	15677.48958	75785.11752	4.465945787
82	0.164903638	0.835096362	14385.42307	2372.208601	13199.31877	60107.62794	4.178370539
83	0.177313847	0.822686153	12013.21447	2130.10927	10948.15983	46908.30917	3.904725858
84	0.193503615	0.806496385	9883.105197	1912.416584	8926.896904	35960.14934	3.638547665
85	0.208777105	0.791222895	7970.688612	1664.097293	7138.639966	27033.25243	3.391583055
86	0.227700079	0.772299921	6306.59132	1436.011343	5588.585648	19894.61247	3.154574549
87	0.246142562	0.753857438	4870.579977	1198.857036	4271.151459	14306.02682	2.937232709
88	0.265801654	0.734198346	3671.722941	975.9500314	3183.747925	10034.87536	2.733015406
89	0.286708244	0.713291756	2695.772909	772.9003159	2309.322751	6851.127437	2.541433447
90	0.308884239	0.691115761	1922.872593	593.9450372	1625.900075	4541.804686	2.361989401
91	0.332340503	0.667659497	1328.927556	441.6564519	1108.09933	2915.904611	2.194178755
92	0.357074609	0.642925391	887.2711043	316.8219825	728.860113	1807.805281	2.037489187
93	0.383068453	0.616931547	570.4491218	218.5210627	461.1885905	1078.945167	1.891395966
94	0.410285771	0.589714229	351.9280591	144.3910751	279.7325216	617.756577	1.755349029
95	0.438669639	0.561330361	207.536984	91.04017389	162.0168971	338.0240554	1.628741292
96	0.468140057	0.531859943	116.4968101	54.53682335	89.22839846	176.0071584	1.510832427
97	0.498591742	0.501408258	61.95998678	30.89273775	46.51361791	86.77875991	1.400561304
98	0.52989229	0.47010771	31.06724904	16.46229573	22.83610117	40.265142	1.296063966
99	0.561880891	0.438119109	14.60495331	8.206244182	10.50183122	17.42904083	1.193365049
100	0.594367816	0.405632184	6.398709126	3.803186766	4.497115743	6.92720961	1.08259486
101	0.627134887	0.372865113	2.59552236	1.627742622	1.781651049	2.430093867	0.936263892
102	0.65993719	0.34006281	0.967779738	0.638673841	0.648442818	0.648442818	0.670031405
103	0.692506223	0.307493777	0.329105897	0.329105897	0	0	0

vik	qx	px	lx	dx	Lx_1	Tx	ex
0	0.012735263	0.987264737	100000	1273.526291	98828.35581	7429693.581	74.29693581
1	0.000820187	0.999179813	98726.47371	80.97415083	98685.98663	7330865.226	74.25430029
2	0.000676169	0.999323831	98645.49956	66.70098828	98612.14906	7232179.239	73.31484225
3	0.000253807	0.999746193	98578.79857	25.0199995	98566.28857	7133567.09	72.36411067
4	0.000264501	0.999735499	98553.77857	26.06757059	98540.74479	7035000.801	71.38235493
5	0.000246538	0.999753462	98527.711	24.29084798	98515.56558	6936460.056	70.40110834
6	0.000285322	0.999714678	98503.42015	28.10522952	98489.36754	6837944.491	69.41834588
7	0.000258973	0.999741027	98475.31492	25.50244604	98462.5637	6739455.123	68.43801544
8	0.000238089	0.999761911	98449.81248	23.43984675	98438.09255	6640992.56	67.45561411
9	0.000209456	0.999790544	98426.37263	20.61595873	98416.06465	6542554.467	66.47155932
10	0.000180139	0.999819861	98405.75667	17.72670539	98396.89332	6444138.402	65.48538033
11	0.00018988	0.99981012	98388.02997	18.68191651	98378.68901	6345741.509	64.49708884
12	0.000183742	0.999816258	98369.34805	18.07453518	98360.31078	6247362.82	63.50924291
13	0.000195853	0.999804147	98351.27351	19.26240204	98341.64231	6149002.509	62.52082245
14	0.000246595	0.999753405	98332.01111	24.24821534	98319.887	6050660.867	61.5329718
15	0.00027761	0.99972239	98307.7629	27.2911802	98294.11731	5952340.98	60.54802596
16	0.000327207	0.999672793	98280.47172	32.15810602	98264.39266	5854046.863	59.5647005
17	0.000355446	0.999644554	98248.31361	34.92196041	98230.85263	5755782.47	58.58403324
18	0.000338227	0.999661773	98213.39165	33.2184273	98196.78244	5657551.617	57.60468631
19	0.000374245	0.999625755	98180.17322	36.74343234	98161.80151	5559354.835	56.6240072
20	0.000426858	0.999573142	98143.42979	41.89335282	98122.48311	5461193.034	55.64501918
21	0.000457585	0.999542415	98101.53644	44.889783	98079.09155	5363070.55	54.66856835
22	0.000519412	0.999480588	98056.64665	50.93182591	98031.18074	5264991.459	53.69336642
23	0.000539498	0.999460502	98005.71483	52.87386964	97979.27789	5166960.278	52.72101007
24	0.000523431	0.999476569	97952.84096	51.27158247	97927.20517	5068981	51.7491984
25	0.000535743	0.999464257	97901.56938	52.4501036	97875.34432	4971053.795	50.77603788
26	0.000562897	0.999437103	97849.11927	55.07992688	97821.57981	4873178.451	49.80297368
27	0.000550519	0.999449481	97794.04035	53.83751526	97767.12159	4775356.871	48.83075547
28	0.000483515	0.999516485	97740.20283	47.25883631	97716.57341	4677589.749	47.85737715
29	0.000446655	0.999553345	97692.94399	43.6350681	97671.12646	4579873.176	46.88028622
30	0.000505686	0.999494314	97649.30893	49.3799297	97624.61896	4482202.049	45.90101147
31	0.000622927	0.999377073	97599.929	60.79761659	97569.53019	4384577.43	44.92398176
32	0.000781325	0.999218675	97539.13138	76.20973094	97501.02651	4287007.9	43.9516719
33	0.000839852	0.999160148	97462.92165	81.8544182	97421.99444	4189506.874	42.98564832
34	0.000861382	0.999138618	97381.06723	83.88234362	97339.12606	4092084.879	42.02135996
35	0.00087629	0.99912371	97297.18489	85.2605653	97254.5546	3994745.753	41.05715657
36	0.000908534	0.999091466	97211.92432	88.32035712	97167.76414	3897491.199	40.09272757
37	0.000912184	0.999087816	97123.60396	88.59460496	97079.30666	3800323.435	39.12873163
38	0.001000722	0.998999278	97035.00936	97.10503193	96986.45684	3703244.128	38.16400032
39	0.001100747	0.998899253	96937.90433	106.7040974	96884.55228	3606257.671	37.20172925
40	0.00127381	0.99872619	96831.20023	123.3445083	96769.52798	3509373.119	36.24217308
41	0.00157591	0.99842409	96707.85572	152.4028431	96631.6543	3412603.591	35.28775988
42	0.001663037	0.998336963	96555.45288	160.5752985	96475.16523	3315971.936	34.34266877
43	0.00178357	0.99821643	96394.87758	171.9270342	96308.91406	3219496.771	33.39904414
44	0.002172473	0.997827527	96222.95055	209.0417451	96118.42967	3123187.857	32.45782674
45	0.002420046	0.997579954	96013.9088	232.3580336	95897.72978	3027069.428	31.52740541
46	0.002734014	0.997265986	95781.55077	261.8680896	95650.61672	2931171.698	30.6026753
47	0.003177448	0.996822552	95519.68268	303.5087842	95367.92829	2835521.081	29.68520206
48	0.003358675	0.996641325	95216.17389	319.8001722	95056.27381	2740153.153	28.77823211
49	0.003645896	0.996354104	94896.37372	345.9822999	94723.38257	2645096.879	27.87352957
50	0.004173821	0.995826179	94550.39142	394.6363653	94353.07324	2550373.496	26.9736958
51	0.004492509	0.995507491	94155.75506	422.995581	93944.25727	2456020.423	26.08465538
52	0.005067562	0.994932438	93732.75948	474.9965761	93495.26119	2362076.166	25.20011338
53	0.005585443	0.994414557	93257.7629	520.8859047	92997.31995	2268580.905	24.32592027
54	0.006156108	0.993843892	92736.87699	570.8982229	92451.42788	2175583.585	23.45974606
55	0.006855274	0.993144726	92165.97877	631.823004	91850.06727	2083132.157	22.60196424
56	0.007516008	0.992483992	91534.15577	687.9714737	91190.17003	1991282.09	21.7545251
57	0.008226323	0.991773677	90846.18429	747.3300133	90472.51929	1900091.92	20.91548406
58	0.009112567	0.990887433	90098.85428	821.0318358	89688.33836	1809619.4	20.08482144
59	0.010481693	0.989518307	89277.82245	935.7827235	88809.93108	1719931.062	19.26493069
60	0.011698813	0.988301187	88342.03972	1033.496994	87825.29122	1631121.131	18.4637024
61	0.013091753	0.986908247	87308.54273	1143.021841	86737.03181	1543295.84	17.67634405
62	0.014187456	0.985812544	86165.52089	1222.469526	85554.28612	1456558.808	16.90419547
63	0.014993608	0.985006392	84943.05136	1273.602834	84306.24994	1371004.522	16.14027869
64	0.016416874	0.983583126	83669.44853	1373.590766	82982.65314	1286698.272	15.37835249
65	0.018350366	0.981649634	82295.85776	1510.159076	81540.77822	1203715.619	14.62668537
66	0.020058697	0.979941303	80785.69868	1620.455881	79975.47074	1122174.84	13.89076109
67	0.022517122	0.977482878	79165.2428	1782.573428	78273.95609	1042199.37	13.16486039
68	0.025549552	0.974450448	77382.66938	1977.092533	76394.12311	963925.4135	12.45660587
69	0.028218717	0.971781283	75405.57684	2127.848632	74341.65253	887531.2904	11.77010146
70	0.031913987	0.968086013	73277.72821	2338.58446	72108.43598	813189.6378	11.0973642
71	0.036052125	0.963947875	70939.14375	2557.506897	69660.3903	741081.2019	10.4467176
72	0.040627984	0.959372016	68381.63685	2778.20807	66992.53282	671420.8116	9.81872942
73	0.046129836	0.953870164	65603.42878	3026.275387	64090.29109	604428.2787	9.213364148
74	0.051421599	0.948578401	62577.1534	3217.817299	60968.24475	540337.9876	8.634748599
75	0.057993516	0.942006484	59359.3361	3442.456623	57638.10779	479369.7429	8.075726152
76	0.06546093	0.93453907	55916.87947	3660.37096	54086.69399	421731.6351	7.542116782
77	0.073036075	0.926963925	52256.50851	3816.610278	50348.20338	367644.9411	7.035390453
78	0.081458392	0.918541608	48439.89824	3945.836211	46466.98013	317296.7377	6.550318008

79	0.090645485	0.909354515	44494.06203	4033.185825	42477.46911	270829.7576	6.086874187
80	0.100573621	0.899426379	40460.8762	4069.296822	38426.22779	228352.2885	5.643780114
81	0.112294737	0.887705263	36391.57938	4086.582843	34348.28796	189926.0607	5.218956252
82	0.125127021	0.874872979	32304.99654	4042.227978	30283.88255	155577.7727	4.815904332
83	0.14008702	0.85991298	28262.76856	3959.247035	26283.14504	125293.8902	4.433178227
84	0.15626604	0.84373396	24303.52152	3797.815067	22404.61399	99010.74516	4.073925874
85	0.175017715	0.824982285	20505.70646	3588.861898	18711.27551	76606.13117	3.735844524
86	0.194934261	0.805065739	16916.84456	3297.672586	15268.00827	57894.85566	3.422320011
87	0.216827204	0.783172796	13619.17197	2953.006973	12142.66849	42626.8474	3.129914762
88	0.240812629	0.759187371	10666.165	2568.54723	9381.891384	30484.17891	2.85802619
89	0.266991955	0.733008045	8097.617769	2161.998802	7016.618368	21102.28753	2.60598711
90	0.295444966	0.704555034	5935.618967	1753.648746	5058.794594	14085.66916	2.37307503
91	0.326221582	0.673778418	4181.970221	1364.248939	3499.845751	9026.874566	2.158521962
92	0.359332431	0.640667569	2817.721281	1012.498637	2311.471963	5527.028815	1.961524318
93	0.394738406	0.605261594	1805.222645	712.5907098	1448.92729	3215.556852	1.781252225
94	0.43233956	0.56766044	1092.631935	472.3880101	856.4379297	1766.629563	1.616856973
95	0.471963935	0.528036065	620.2439246	292.732763	473.8775431	910.1916329	1.467473677
96	0.513357211	0.486642789	327.5111616	168.1302164	243.4460534	436.3140898	1.332211359
97	0.556174365	0.443825635	159.3809452	88.64359597	115.0591472	192.8680364	1.210107244
98	0.599974845	0.400025155	70.73734925	42.44063017	49.51703416	77.80888914	1.099968969
99	0.644223043	0.355776957	28.29671908	18.22939846	19.18201985	28.29185498	0.999828104
100	0.688295948	0.311704052	10.06732062	6.929295985	6.602672623	9.10983513	0.904891726
101	0.731499765	0.268500235	3.138024631	2.295464281	1.99029249	2.507162507	0.798962023
102	0.773096747	0.226903253	0.84256035	0.651380665	0.516870017	0.516870017	0.613451627
103	0.812342523	0.187657477	0.191179685	0.191179685	0	0	0