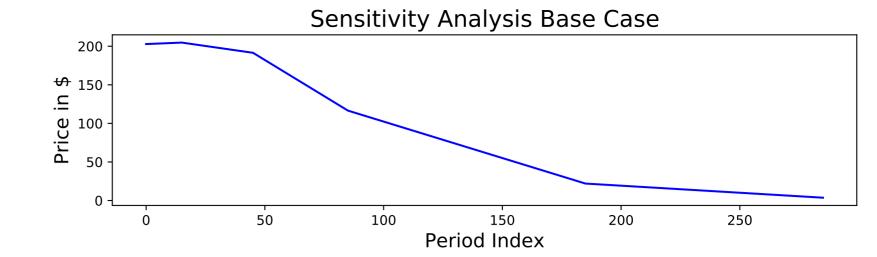
## 1 Sensitivity Analysis with Quasi-Newton

Table 1: Quasi-Newton Sensitivity Analysis

Final Utility	Final Norm of Gradient	Number of Iterations
-9.4942	$8.6500 \times 10^{-4}$	214.6897
Number of Utility Iterations	Number of Gradient Evaluations	
549.4333	549.4333	
Standard Deviation of Final Utility	Number of Tests	Total Time Average
0.0011	29	1472.2

## Sample No. 29 Mitigation Price

- 0 0.83386205 202.722485
- 1 0.98677105 242.599122
- 2 0.84479126 166.759809
- 3 1.294526 296.794109
- 4 1.02337421 168.323649
- 5 1.03977842 174.908179
- 6 0.90926585 126.547354
- 7 1.10715414 111.187333
- 8 1.07129075 102.694607 9 1.17879429 129.348424
- 10 1.1349863 118.052057
- 11 1.20495671 136.384586
- 10 1 15000011 105 00115
- 12 1.16330211 125.284466
- 13 1.21134083 138.134739
- 14 0.91664221 70.4968057
- 15 1.02588971 20.407517
- 16 0.98955226 18.7067315
- 17 1.02911934 20.562886
- 18 0.98968751 18.7129012
- 19 1.03469878 20.8329261
- 20 0.99731932 19.0629996
- 21 1.05050804 21.6093125
- 22 1.01424299 19.8529442
- 23 1.03965572 21.0745697
- 24 1.00313902 19.3325272
- 25 1.05301959 21.7341869
- 26 1.01704251 19.9854302
- 27 1.05809806 21.9879775
- 28 1.02357815 20.2967372
- 29 1.31483121 37.139629
- 30 1.21111505 30.4600503
- 31 0.94234706 3.66773661
- 32 0.92501905 3.50710585
- 33 0.96178297 3.85294042
- 34 0.93660732 3.61406244
- 35 0.96003359 3.83605159
- 36 0.93480702 3.59732268
- 37 0.97873362 4.01884025 38 0.9558521 3.7958588
- 39 0.95591161 3.79642909
- 40 0.93111874 3.56316978
- 41 0.97078741 3.94055891
- 42 0.95377506 3.77598619
- 43 0.96470561 3.88125296
- 44 0.94520225 3.69460914
- 45 0.98383658 4.06958766 46 0.88429683 3.14607032
- 47 0.95516624 3.78928985
- 48 0.93017515 3.55446292
- 49 0.96933203 3.92631904
- 50 0.95072778 3.7469411
- 51 0.96240369 3.85894342
- 52 0.94474675 3.69031439
- 53 0.98149193 4.0462245
- 54 0.88557163 3.15702529
- 55 0.96229539 3.8578956
- 56 0.94120836 3.65705147
- 57 0.97758812 4.00749981
- 59 1.00049399 4.2378428
- 60 0.97679377 3.9996468261 1.08893287 5.19889402
- 62 0.14122728 0.03761671



	In 0 Years	In 15 Years	In 45 Years	In 85 Years	In 185 Years	In 285 Years
Expected Price	201.06640218	202.539012054	187.112074321	118.084748049	21.880723169	3.69318614146

	Iteration Number	Utility at Start Point	Norm of Gradient	
Test 1	213.0	9.49269658533	0.0007634950268	
Test 2	174.0	9.49461016831	0.000874383316829	
Test 3	199.0	9.49340451124	0.00071055865618 0.000910136908193 0.000858997716733 0.000802076739772	
Test 4	230.0	9.49535567336		
Test 5	231.0	9.49488360286		
Test 6	202.0	9.49302622425		
Test 7	231.0	9.49514268786	0.000947424812049	
Test 8	165.0	9.49318217437	0.000993996238838	
Test 9	199.0	9.49563492163	0.000704831398821	
Test 10	231.0	9.49514420684	0.000970804158501	
Test 11	227.0	9.4952641927	0.000985176611482	
Test 12	224.0	9.49250033592	0.000779075627789	
Test 13	225.0	9.49218026919	0.000817705435568	
Test 14	242.0	9.49332388844	0.000871082346933	
Test 15	162.0	9.49350528986	0.000805748687418	
Test 16	202.0	9.49333713762	0.000700724968602	
Test 17	187.0	9.49403461329	0.000758329361405	
Test 18	202.0	9.49402000678	0.000908135766683	
Test 19	207.0	9.49426270781	0.000794495822206	
Test 20	217.0	9.49490041176	0.000863356636833	
Test 21	200.0	9.49495663613	0.000970493335606	
Test 22	245.0	9.49316128325	0.000899781771906	
Test 23	202.0	9.49479246214	0.000810800493629	
Test 24	243.0	9.49563985013	0.000933327804445	
Test 25	247.0	9.49538874247	0.000942364929384	
Test 26	254.0	9.49254162286	0.000946078218015	
Test 27 223.0		9.49460838567	0.00087729434841	
Test 28	227.0	9.49438373486	0.000914537915264	
Test 29	215.0	9.49507857007	0.000969865327315	
Average	214.689655172	9.49417106541	0.00086500277178	