

# APPENDIX I. DESCRIPTION OF MODEL PARAMETERS

Number	Description		Value	Dimensions	Data Source
1	Adjustment Time for Fraction of Total Initial Receipts Attributed to NYS to Become Known		3	Month	Direct Administrative Historic Data
2	Effect of the Fraction of Out of State Initial Receipts on Productivity	Fraction of Total Initial Receipts Attributed to NYS Only	$[(0,0)-(1,2)],(0,0.65),(0.191638,0.678161),(0.512195,0.747126),(0.71777,0.827586),(0.898955,0.91954),(1,1))$	Dimensionless	Expert Judgment
3	Initial Difficulty of Out-of-State Cases		10	Difficulty/Claims	Expert Judgment
4	Conversion of Continuing Cases Reviewed to Initial Receipts		1	Month	Modeler Estimate Captures the conversion that initial receipts Continuing Cases Reviewed generate work for staff.
5	Average Time Between Injury and People Filing Disability Claims		24	Month	Expert Judgment
6	Claims Generated Per Outreach Staff		10	Claims/Staff/ Month	Direct Administrative Historic Data
7	Average Time to File a Claim		12	Month	Direct Administrative Historic Data
8	Pool of Out of State Receipts		50000	Claims/Month	Direct Administrative Historic Data
9	Fraction of People With Potential Disability Who Actually File		0.65	Claims/People	Imported from O Empirical Studies
10	Fraction Filing Claims with Manufacturing Injuries		0.65	Dimensionless	Imported from O Empirical Studies
11	Injury Rate Per Manufacturing Job		0.002	Dimensionless/ Month	Direct Administrative Historic Data
12	Effect of the Average Workload Ratio on Bringing in Work from Other States	Average Workload Ratio	$[(0,0)-(1,1)],(0,1),(0.0662021,0.977012),(0.167247,0.971264),(0.341463,0.942529),(0.501742,0.890805),(0.714286,0.683908),(0.853659,0.408046),(1,0))$	Dimensionless	Expert Judgment

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Number	Description		Value	Dimensions	Data Source
13	Effect of the Ratio for Min Number of Manufacturing Jobs	Ratio of Manufacturing Jobs in NYS to Conceivable Min Number of Jobs	$[(1,0)-(2,2)], (1,0), (1.12892, 0.37931), (1.2892, 0.632184), (1.45993, 0.850575), (1.61324, 0.954023), (1.77352, 1), (2,1) ]$	Dimensionless	Modeler Estimate Selected to match model data to historical data for the number of manufacturing jobs in NYS.
14	Initial Fraction Change in Manufacturing Jobs		1-0.032	Dimensionless	Direct Administrative Historic Data
15	Adjustment Time for Manufacturing Jobs		12	Month	Modeler Estimate Data for manufacturing jobs is annualized.
16	Minimum Number of Manufacturing Jobs		400000	People	Modeler Estimate captures the idea that manufacturing jobs do not decline forever. NYS Department of Labor identifies a number (perhaps increases) of high skill manufacturing jobs in NYS.
17	Acceptable Time Delay		5.723	Month	Direct Administrative Historic Data
18	Average Time for Discontinued Claims to No Longer Have an Influence		60	Month	Expert Judgment
19	Fraction of Continuing Cases Per Month Denied Further Assistance		0.007	Dimensionless	Direct Administrative Historic Data
20	Time to Layoff Staff		3	Month	Direct Administrative Historic Data
21	Acceptable Historical in the Hearing Process		10.5	Month	Direct Administrative Historic Data
22	Initial Fraction of Claims for Which an Appeal is Filed		0.586	Dimensionless	Imported from Other Empirical Studies

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23	Effect of the Delay Time on the Fraction Applying	Ratio of Actual to Desired Delay time	(((0,0)-(2,2)],(0,2),(0.271777,1.91954),(0.445993,1.78161),(0.696864,1.47126),(0.836237,1.25287),(1,1),(1.14286,0.827586),(1.30314,0.678161),(1.59582,0.54023),(2,0.5) ))	Dimensionless	Expert Judgment
24	Historical Fraction of Temporary Assistance Recipients Referred to DDD		0.001	Dimensionless/ Month	Expert Judgment
25	Historical Number of People on Welfare		1.70E+06	People	Direct Administrative Historic Data
26	Adjustment Time for Changes in the Pool of Temporary Assistance		3	Month	Modeler Estimate Assumption is that changes are compiled on quarterly basis a changes would not be noticed immediately
27	Minimum Number of Welfare Recipients Possible		500000	People	Direct Administrative Historic Data
28	Claims Generated Per Referral		1	Claims/People	Expert Judgment
29	Initial Fraction Change in Temporary Recipients		0.97	Dimensionless	Modeler Estimate function): A step function to 1.01 generate an increase in the number of temporary assistance claims. This captures the idea that the economy is not collapsing as well.
30	Effect of the Decrease in Temporary Assistance on the Pressure to Perform Outreach	Ratio of Pool of Temporary Assistance People to Historical Numbers	(((0,0)-(1,2)],(0,0),(0.226481,0.091954),(0.407666,0.252874),(0.501742,0.425287),(0.616725,0.666667),(0.749129,0.91954),(0.874564,0.954023),(1,1) ))	Dimensionless	Expert Judgment

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31	Effect of the Ratio on the Net Change in People on Temporary Assistance	Ratio of Pool of Temporary Assistance Recipients to Historical Numbers	[[ (1,0)-(4,2)], (1,0), (1.15679,0.0804598), (1.27178,0.218391), (1.60627,0.632184), (2,0.95), (3,1), (4,1) )]	Dimensionless	Direct Administrative Historic Data
32	Average Length of Time of Eligibility		168	Month	Direct Administrative Historic Data
33	Average Time Until Continuing Case is Re-Evaluated		10	Month	Direct Administrative Historic Data
34	Adjustment Time for Average SSA Field Office Perceived Productivity		3	Month	Direct Administrative Historic Data
35	Initial Desired Hearing Staff		100	Staff	Imported from O Empirical Studies
36	Initial Desired SSA Field Office Staffing Level		150	Staff	Direct Administrative Historic Data
37	Adjustment Time for Average Yearly Initial Receipts		4	Month	Expert Judgment
38	Adjustment Time for Changing Employees		18	Month	Expert Judgment
39	Adjustment Time for Effect of Actual to Desired Productivity Ratio		18	Month	Modeler Estimate
40	Effect of the Desired SSA Productivity Ratio on the Fraction of Staff Processing Claims	SMOOTH(Ratio of the Perceived Average Monthly SSA Field Office Productivity to Desired Productivity)	[[ (0.8,0.8)-(1.2,1.2)], (0.8,1.111), (0.852962,1.111), (0.885017,1.1111), (0.924042,1.08736), (1,1), (1.04251,0.958621), (1.09129,0.924138), (1.16098,0.901149), (1.2,0.9) )]	Dimensionless	Direct Administrative Historic Data
41	Average Time for Hearing Staff to Become Experienced		36	Month	Expert Judgment
42	Normal Productivity of Hearing Staff		48.3	Claims/ Month*Staff)	Imported from O Empirical Studies

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43	Effect of Experience on Productivity	Fraction Experienced	$[(0,0)-(1,1)], (0,0.2), (0.2,0.25), (0.4,0.4), (0.6,0.7), (0.8,0.9), (1,1) )$	Dimensionless	Expert Judgment
44	Effect of Hearing Staff Experience on Productivity	Fraction of Experienced Hearing Staff,	$[(0,0)-(1,1)], (0,0.2), (0.2,0.25), (0.4,0.4), (0.6,0.7), (0.8,0.9), (1,1) )$	Dimensionless	Expert Judgment
45	Effect of Hearing Staff Workload Ratio on Productivity	Workload Ratio of Hearing Staff,	$(2,2)], (0,0), (0.2,1), (0.4,1), (0.6,1), (0.8,1), (1,1), (1.2,1), (1.4,1), (1.6,1), (1.8,1), (2,1) )$	Dimensionless	Expert Judgment
46	Effect of the Ratio of Perceived Average Monthly SSA Productivity on Staffing Levels		$[(0,0)-(2,2)], (0,0), (1,1), (1.49826,1.26437), (2,1.45) )$	Dimensionless	Expert Judgment
47	Initial Fraction Processing Claims		0.95	Dimensionless	Direct Administrative Historic Data
48	Initial SSA Field Office Productivity		6.6	Claims/ (Month*Staff)	Direct Administrative Historic Data
49	Fraction of Denials Approved During Appeals Process		0.7	Dimensionless	Imported from O Empirical Studies
50	Fraction of Hearing Staff Leaving Per Month		0	Dimensionless/ Month	Modeler Estimate Test Assumption
51	National SSA Productivity Standards		$1 + \text{Step}(0.22,12)$	Dimensionless	Direct Administrative Historic Data
52	Normal for Hearing Staff Workload		4830	Claims/Staff	Direct Administrative Historic Data
53	Initial Desired Productivity of SSA Field Office		18	Claims/ (Month*Staff)	Direct Administrative Historic Data
54	Time to Hire New Hearing Staff		4	Month	Expert Judgment
55	Adjustment Time for Average Workload Ratio		12	Month	Expert Judgment
56	Effect of the Workload Ratio on Productivity	Workload Ratio	$[(0,0)-(2,2)], (0,0), (0.2,0.2), (0.4,0.4), (0.6,0.6), (0.8,0.8), (1,1), (1.2,1.06), (1.4,1), (1.6,0.8), (1.8,0.7), (2,0.65) )$	Dimensionless	Expert Judgment
57	Historical Fraction of Disability Claims Approved		0.38	Dimensionless	Direct Administrative Historic Data
58	Effect of the Average Workload Ratio on Staffing Levels	Average Workload Ratio	$[(0,0)-(1,2)], (0,0.1), (0.25,0.2), (0.5,0.5), (0.787456,0.908046), (0.95,1), (1,1) )$	Dimensionless	Expert Judgment

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59	Effect of the Allowance Rates on Initial Receipts	Ratio of Current Fraction Approved to Historical Fraction	$((0,0)-(2,2]), (0,0), (0.508711, 0.482759), (1,1), (1.49826, 1.33333), (2, 1.5) )$	Dimensionless	Expert Judgment
60	Workload Normal		82.4	Claims/Staff	Direct Administrative Historic Data
61	Fraction of Disability Applications Approved		0.38	Dimensionless	Direct Administrative Historic Data
62	Normal Productivity		9.375	Claims/Staff/Month	Direct Administrative Historic Data
63	Months Per Year		12	Month/Year	Direct Administrative Historic Data
64	Effect of the Delay Time on the Willingness of People to Make Initial Claims	Ratio of Average Delay to Normal Delay	$((0,0)-(5,2]), (0,1), (1,1), (1.51568, 0.965517), (1.95122, 0.890805), (3, 0.66), (3.51916, 0.545977), (4, 0.5), (5, 0.5) )$	Dimensionless	Expert Judgment
65	Fraction of Experienced Staff Leaving Per Month		0	Dimensionless/Month	Modeler Estimate Test Assumption
66	Initial Desired Staff		1250	Staff	Direct Administrative Historic Data
67	Normal Delay in Making a Determination		3	Month	Direct Administrative Historic Data
68	Pool of Potential Monthly DDD Applications		13040	Claims/Month	Direct Administrative Historic Data
69	Time to Gain Experience		18	Month	Expert Judgment
70	Time to Hire New Staff		4	Month	Expert Judgment