

**National Business Institute
Forensic Accounting 101 for Attorneys
October 27, 2016 – Memphis, TN**

**How to Calculate Damages Like a
Forensic Accountant
(With Real-World Examples)**

Presented by:

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14 before a jury**

98th Presentation

Disclaimer

The content in this seminar will not apply in all situations or in all jurisdictions

Different facts often require different Numbers, Studies & Statistics

The Replacement Value of a Life

Essential Elements

- Loss of Earning Capacity that would have been earned as occupational compensation, less mitigating earnings still able to produce, if any
 - Personal Consumption or Maintenance deducted in WD cases
- Loss of Fringe Benefits that are part of the occupational earning capacity

The Replacement Value of a Life

Essential Elements

- Loss of Household Services that would have been performed, less services still able to perform
- Medical & Rehabilitation Bills incurred in the past plus estimates of future bills from a Life Care Plan
- Discount all Losses to Present Value, usually to the Trial Date

The Basic “Formula”

- + Loss of Earning Capacity over Worklife Expectancy
- Mitigating Earnings
- Personal Consumption or Maintenance

✓ = Net Earnings Loss

✓ + Loss of Fringe Benefits

✓ + Lost Production of Household Services over Life Expectancy

✓ + Future Medical Expenses

= Total Loss (i.e., Total Damages) @ Present Value

✓ **Present Valued**

Sources of Information

- *Determining Economic Damages*, James Publishing, Stanley P. Stephenson, Ph.D., David A. Macpherson, Ph.D. and Gerald D. Martin, Ph.D.
- Personal Injury Damages Advocate and Wrongful Death Damages Advocate software, ValuSource.com
- Journal of Forensic Economics published by the National Association of Forensic Economics (NAFE), www.nafe.net
- A number of studies and websites will be referenced throughout

Why Does Present Value Matter?

- Economic losses are calculated to the “Present Value” to quantify a steady stream of lost past and lost future income into a single, lump-sum figure for settlement or award purposes
- The Present Value of the economic losses is “The Replacement Value of a Life”

Timeline for a Damages Analysis

Loss of Earning Capacity & Loss of Fringe Benefits

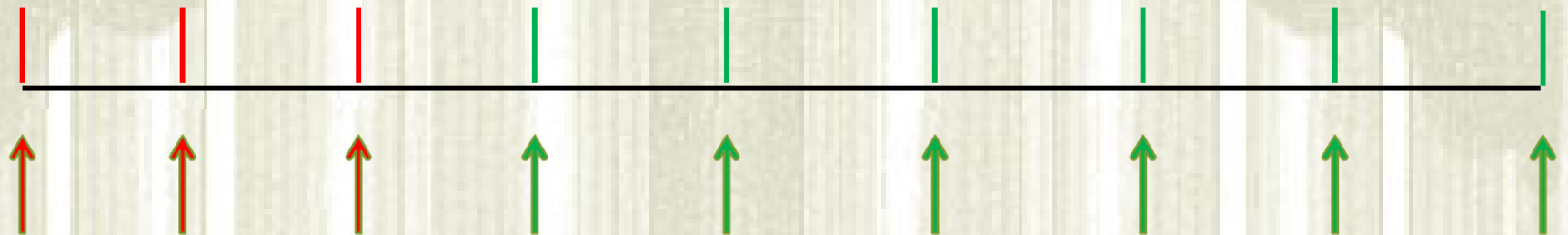
Loss of Household Services & Medical Bills

Injury
Date

Trial
Date

Worklife
Expectancy

Life
Expectancy



Past or
Pre-Trial

Future or
Post-Trial

Worklife Expectancy (“WLE”)

- Years that the subject could have worked
- The more education the more WLE
- Generally DO NOT use a Social Security Age without a good reason as a stand-alone scenario without an alternative WLE
- Generally DO use the statistical studies
 - Source: "The Markov Process Model of Labor Force Activity: Extended Tables of Central Tendency, Shape, Percentile Points, and Bootstrap Standard Errors", Gary Skoog, James Ciecka & Kurt Krueger, Journal of Forensic Economics, 22(2) 2011, pp. 165-229

Table 8
 Characteristics for Initially Active Men with Associate's Degree

Age	WLE Mean	Median	Mode	SD	SK	KU	10%	25%	75%	90%	WLE-B	SE-B
19	40.12	41.50	42.50	9.71	-0.98	5.06	28.50	35.50	46.50	50.50	40.12	0.32
20	39.27	40.50	41.50	9.60	-0.95	4.95	27.50	34.50	45.50	49.50	39.28	0.32
21	38.46	39.50	40.50	9.49	-0.91	4.84	27.50	33.50	44.50	49.50	38.47	0.33
22	37.68	38.50	40.50	9.36	-0.87	4.72	26.50	32.50	43.50	48.50	37.67	0.32
23	36.90	37.50	39.50	9.23	-0.83	4.59	25.50	32.50	42.50	47.50	36.88	0.32
24	36.09	37.50	38.50	9.11	-0.78	4.45	24.50	31.50	42.50	46.50	36.08	0.32
25	35.27	36.50	37.50	8.99	-0.73	4.32	24.50	30.50	41.50	45.50	35.26	0.32
26	34.44	35.50	36.50	8.87	-0.69	4.20	23.50	29.50	40.50	44.50	34.43	0.32
27	33.60	34.50	35.50	8.77	-0.65	4.08	22.50	28.50	39.50	43.50	33.59	0.32
28	32.75	33.50	34.50	8.66	-0.61	3.97	21.50	27.50	38.50	42.50	32.73	0.32
29	31.88	32.50	33.50	8.57	-0.57	3.86	21.50	27.50	37.50	41.50	31.87	0.32
30	31.02	31.50	32.50	8.47	-0.53	3.76	20.50	26.50	36.50	40.50	31.00	0.31
31	30.15	30.50	31.50	8.38	-0.50	3.67	19.50	25.50	35.50	40.50	30.14	0.31
32	29.27	29.50	30.50	8.29	-0.46	3.58	18.50	24.50	34.50	39.50	29.25	0.30
33	28.37	28.50	29.50	8.21	-0.42	3.50	17.50	23.50	33.50	38.50	28.36	0.30
34	27.48	28.50	28.50	8.12	-0.39	3.42	17.50	22.50	32.50	37.50	27.46	0.30
35	26.58	27.50	27.50	8.04	-0.35	3.35	16.50	21.50	31.50	36.50	26.57	0.30
36	25.69	26.50	26.50	7.96	-0.32	3.28	15.50	20.50	31.50	35.50	25.68	0.30
37	24.81	25.50	25.50	7.88	-0.29	3.22	14.50	19.50	30.50	34.50	24.80	0.30
38	23.93	24.50	24.50	7.79	-0.26	3.17	13.50	19.50	29.50	33.50	23.92	0.30
39	23.06	23.50	23.50	7.70	-0.22	3.12	12.50	18.50	28.50	32.50	23.05	0.30
40	22.21	22.50	22.50	7.60	-0.19	3.07	12.50	17.50	27.50	31.50	22.19	0.30
41	21.36	21.50	21.50	7.50	-0.15	3.03	11.50	16.50	26.50	30.50	21.36	0.30
42	20.52	20.50	20.50	7.39	-0.11	2.99	10.50	15.50	25.50	29.50	20.52	0.30
43	19.68	19.50	20.50	7.29	-0.08	2.95	10.50	14.50	24.50	28.50	19.67	0.30
44	18.84	19.50	19.50	7.18	-0.04	2.92	9.50	14.50	23.50	27.50	18.83	0.30
45	18.00	18.50	18.50	7.07	0.00	2.89	8.50	13.50	22.50	26.50	17.99	0.30
46	17.17	17.50	17.50	6.96	0.04	2.87	7.50	12.50	21.50	25.50	17.17	0.31
47	16.35	16.50	16.50	6.84	0.09	2.85	7.50	11.50	20.50	25.50	16.35	0.30
48	15.55	15.50	15.50	6.72	0.13	2.84	6.50	10.50	20.50	24.50	15.54	0.30
49	14.76	14.50	14.50	6.59	0.17	2.84	6.50	10.50	19.50	23.50	14.76	0.31
50	13.98	13.50	13.50	6.45	0.22	2.85	5.50	9.50	18.50	22.50	13.99	0.29
51	13.22	13.50	12.50	6.31	0.27	2.86	4.50	8.50	17.50	21.50	13.23	0.29
52	12.48	12.50	11.50	6.17	0.32	2.89	4.50	8.50	16.50	20.50	12.48	0.28
53	11.77	11.50	10.50	6.01	0.37	2.92	3.50	7.50	15.50	19.50	11.77	0.28
54	11.10	10.50	9.50	5.85	0.43	2.97	3.50	6.50	14.50	18.50	11.10	0.28
55	10.44	10.50	8.50	5.68	0.49	3.03	3.50	6.50	14.50	17.50	10.45	0.28
56	9.80	9.50	7.50	5.52	0.55	3.10	2.50	5.50	13.50	17.50	9.81	0.28
57	9.19	8.50	6.50	5.35	0.61	3.18	2.50	5.50	12.50	16.50	9.20	0.28
58	8.61	8.50	5.50	5.18	0.67	3.27	2.50	4.50	11.50	15.50	8.61	0.28
59	8.06	7.50	5.50	5.01	0.73	3.36	2.50	4.50	11.50	14.50	8.06	0.27
60	7.52	6.50	4.50	4.85	0.80	3.46	1.50	3.50	10.50	14.50	7.51	0.28
61	6.99	6.50	6.50	4.70	0.85	3.57	1.50	3.50	9.50	13.50	7.00	0.28
62	6.54	5.50	5.50	4.55	0.91	3.68	1.50	2.50	9.50	12.50	6.56	0.28
63	6.15	5.50	4.50	4.39	0.97	3.80	1.50	2.50	8.50	12.50	6.17	0.29

Table 11
 Characteristics for Initially Active Men with Professional or PhD Degree

Age	WLE										WLE-B	SE-B
	Mean	Median	Mode	SD	SK	KU	10%	25%	75%	90%		
24	41.56	42.50	43.50	10.10	-1.18	5.22	29.50	37.50	48.50	52.50	41.52	0.39
25	40.83	42.50	42.50	9.95	-1.15	5.12	28.50	36.50	47.50	51.50	40.80	0.39
26	40.08	41.50	41.50	9.80	-1.11	5.02	27.50	35.50	46.50	51.50	40.05	0.38
27	39.34	40.50	40.50	9.65	-1.08	4.92	27.50	34.50	45.50	50.50	39.30	0.38
28	38.52	39.50	39.50	9.53	-1.05	4.80	26.50	34.50	44.50	49.50	38.48	0.37
29	37.64	38.50	39.50	9.41	-1.01	4.68	25.50	33.50	43.50	48.50	37.61	0.37
30	36.78	37.50	38.50	9.30	-0.98	4.57	25.50	32.50	42.50	47.50	36.74	0.37
31	35.89	36.50	37.50	9.19	-0.94	4.45	24.50	31.50	41.50	46.50	35.85	0.37
32	34.99	35.50	36.50	9.08	-0.91	4.33	23.50	30.50	40.50	45.50	34.96	0.37
33	34.10	35.50	35.50	8.98	-0.87	4.23	22.50	29.50	40.50	44.50	34.07	0.37
34	33.20	34.50	34.50	8.88	-0.84	4.12	21.50	28.50	39.50	43.50	33.17	0.38
35	32.30	33.50	33.50	8.78	-0.80	4.01	21.50	27.50	38.50	42.50	32.26	0.38
36	31.39	32.50	32.50	8.69	-0.76	3.91	20.50	26.50	37.50	41.50	31.35	0.38
37	30.47	31.50	31.50	8.59	-0.73	3.82	19.50	26.50	36.50	40.50	30.44	0.38
38	29.56	30.50	30.50	8.50	-0.69	3.72	18.50	25.50	35.50	39.50	29.52	0.38
39	28.64	29.50	29.50	8.40	-0.66	3.63	17.50	24.50	34.50	38.50	28.61	0.37
40	27.73	28.50	28.50	8.30	-0.62	3.54	16.50	23.50	33.50	37.50	27.69	0.38
41	26.82	27.50	27.50	8.20	-0.58	3.45	16.50	22.50	32.50	36.50	26.78	0.38
42	25.91	26.50	26.50	8.09	-0.54	3.36	15.50	21.50	31.50	35.50	25.87	0.37
43	25.01	25.50	25.50	7.98	-0.50	3.27	14.50	20.50	30.50	34.50	24.97	0.38
44	24.11	24.50	24.50	7.87	-0.45	3.19	13.50	19.50	29.50	33.50	24.07	0.38
45	23.21	23.50	23.50	7.75	-0.41	3.11	12.50	18.50	28.50	32.50	23.17	0.38
46	22.33	22.50	22.50	7.63	-0.37	3.03	12.50	17.50	27.50	31.50	22.29	0.38
47	21.44	21.50	21.50	7.51	-0.32	2.96	11.50	16.50	26.50	31.50	21.40	0.39
48	20.56	20.50	20.50	7.39	-0.27	2.89	10.50	16.50	25.50	30.50	20.52	0.38
49	19.70	19.50	19.50	7.26	-0.23	2.83	10.50	15.50	24.50	29.50	19.66	0.38
50	18.84	18.50	18.50	7.13	-0.18	2.76	9.50	14.50	23.50	28.50	18.80	0.38
51	17.98	18.50	17.50	7.00	-0.13	2.71	8.50	13.50	22.50	27.50	17.94	0.39
52	17.13	17.50	16.50	6.86	-0.08	2.65	8.50	12.50	21.50	26.50	17.09	0.39
53	16.29	16.50	15.50	6.73	-0.02	2.61	7.50	11.50	20.50	25.50	16.25	0.39
54	15.46	15.50	14.50	6.59	0.03	2.56	6.50	10.50	20.50	24.50	15.42	0.39
55	14.64	14.50	13.50	6.45	0.08	2.53	6.50	10.50	19.50	23.50	14.60	0.39
56	13.82	13.50	12.50	6.31	0.13	2.50	5.50	9.50	18.50	22.50	13.79	0.40
57	13.03	12.50	11.50	6.17	0.18	2.48	4.50	8.50	17.50	21.50	12.99	0.40
58	12.26	11.50	10.50	6.02	0.23	2.46	4.50	7.50	16.50	20.50	12.22	0.40
59	11.51	11.50	9.50	5.87	0.27	2.46	3.50	7.50	15.50	19.50	11.48	0.40
60	10.79	10.50	8.50	5.72	0.32	2.45	3.50	6.50	14.50	18.50	10.76	0.40
61	10.11	9.50	7.50	5.57	0.37	2.45	3.50	5.50	14.50	17.50	10.06	0.38
62	9.47	8.50	6.50	5.40	0.41	2.45	2.50	5.50	13.50	17.50	9.42	0.38
63	8.87	8.50	6.50	5.23	0.45	2.45	2.50	4.50	12.50	16.50	8.81	0.39
64	8.27	7.50	5.50	5.07	0.49	2.46	2.50	4.50	11.50	15.50	8.22	0.39
65	7.70	6.50	4.50	4.91	0.52	2.45	1.50	3.50	11.50	14.50	7.64	0.41
66	7.21	6.50	3.50	4.74	0.53	2.45	1.50	3.50	10.50	14.50	7.17	0.43

Earning Capacity

- Actual Earnings History
 - W-2, tax return, paystubs, deposition
- Vocational Expert
- Earnings Capacity
 - Unemployed
 - Information not available
 - Future expectation is different
 - Child
- Deduct mitigating earnings in PI cases



Occupational Employment Statistics

SHARE ON:



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Occupational Employment and Wages, May 2014

29-1123 Physical Therapists

Assess, plan, organize, and participate in rehabilitative programs that improve mobility, relieve pain, increase strength, and improve or correct disabling conditions resulting from disease or injury.

[National estimates for this occupation](#)[Industry profile for this occupation](#)[Geographic profile for this occupation](#)

National estimates for this occupation: [Top](#)

Employment estimate and mean wage estimates for this occupation:

Employment (1)	Employment RSE (3)	Mean hourly wage	Mean annual wage (2)	Wage RSE (3)
200,670	0.9 %	\$40.35	\$83,940	0.3 %

Percentile wage estimates for this occupation:

Percentile	10%	25%	50% (Median)	75%	90%
Hourly Wage	\$27.31	\$33.02	\$39.61	\$46.18	\$55.81
Annual Wage (2)	\$56,800	\$68,690	\$82,390	\$96,060	\$116,090

Personal Maintenance

- Used in Wrongful Death cases
- Consumption vs. Maintenance
- Consumption-expenses personal to the subject
- Maintenance-expenses to keep you alive
- TN Case – *Wallace v. Couch*
 - Deceased's probable living expenses had the deceased lived. Those that under the standard of living followed by the deceased would have been reasonably necessary for him to incur in order to keep himself in such a condition of health and well being that he could maintain his capacity to earn money

Personal Maintenance

- TN Case – *Wallace v. Couch*
 - Deceased's probable living expenses had the deceased lived. Those that under the standard of living followed by the deceased would have been reasonably necessary for him to incur in order to keep himself in such a condition of health and well being that he could maintain his capacity to earn money.

Personal Maintenance

- Consumption Source: "Patton-Nelson Personal Consumption Tables 2011-12", Michael R. Ruble, Robert T. Patton and David M. Nelson, Journal of Legal Economics 21(1), 2014, pp. 41-55.
- Maintenance Source: BLS Table 3403. Consumer units of one person by income before taxes: Average annual expenditures and characteristics, Consumer Expenditure Survey, 2012-2013

**Table 3b. (2011-12) Incremental Consumption Cost Percentage –
Females**

Income Level	1	Consumer Unit Size		4	5 +
	Low – High	2	3		
		Female			
20,000	108.4 – 116.3	44.2	32.5	27.4	24.8
25,000	96.1 – 103.5	39.2	29.1	24.6	21.9
30,000	87.1 – 94.1	35.6	26.6	22.6	19.7
35,000	80.2 – 86.8	32.8	24.6	20.9	18.0
40,000	74.7 – 81.0	30.5	23.0	19.6	16.7
45,000	70.1 – 76.2	28.7	21.7	18.6	15.6
50,000	66.2 – 72.1	27.1	20.6	17.7	14.7
55,000	62.9 – 68.6	25.8	19.7	16.9	13.9
60,000	60.0 – 65.6	24.6	18.8	16.2	13.2
65,000	57.5 – 62.9	23.6	18.1	15.6	12.7
70,000	55.3 – 60.5	22.7	17.4	15.0	12.1
75,000	53.3 – 58.4	21.8	16.9	14.5	11.7
80,000	51.4 – 56.4	21.1	16.3	14.1	11.2
85,000	49.8 – 54.7	20.4	15.8	13.7	10.9
90,000	48.3 – 53.1	19.8	15.4	13.3	10.5
95,000	46.9 – 51.6	19.3	15.0	13.0	10.2
100,000	45.6 – 50.2	18.7	14.6	12.7	9.9
110,000	43.3 – 47.8	17.8	13.9	12.1	9.4
120,000	41.4 – 45.7	17.0	13.3	11.6	8.9
130,000	39.6 – 43.8	16.3	12.8	11.2	8.5
140,000	38.1 – 42.1	15.7	12.4	10.8	8.2
150,000	36.7 – 40.7	15.1	11.9	10.4	7.8
160,000	35.4 – 39.3	14.6	11.6	10.1	7.6
170,000	34.3 – 38.1	14.1	11.2	9.8	7.3
180,000	33.3 – 37.0	13.7	10.9	9.5	7.1
190,000	32.3 – 35.9	13.3	10.6	9.3	6.9

Table 3403. Consumer units of one person by income before taxes: Average annual expenditures and characteristics, Consumer Expenditure Survey, 2012-2013

Item	Total one person	Less than \$5,000	\$5,000 to \$9,999	\$10,000 to \$14,999	\$15,000 to \$19,999	\$20,000 to \$29,999	\$30,000 to \$39,999	\$40,000 to \$49,999	\$50,000 to \$69,999	\$70,000 and more
Number of consumer units (in thousands)	37,356	3,303	3,382	5,427	4,620	5,900	4,226	2,939	3,994	3,565
Consumer unit characteristics:										
Income before taxes	\$33,187	\$776	\$8,020	\$12,734	\$17,352	\$24,514	\$34,409	\$44,283	\$58,028	\$114,666
Income after taxes	30,483	1,066	8,063	12,662	17,171	23,819	32,490	41,310	52,668	98,243
Age of reference person	54.1	45.2	50.1	60.4	62.4	58.0	50.9	51.9	49.4	50.2
Average number in consumer unit:										
People	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Children under 18	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Adults 65 and older3	.2	.3	.5	.6	.5	.3	.3	.2	.1
Earners6	.4	.4	.3	.3	.5	.8	.8	.9	.9
Vehicles	1.1	.6	.6	.8	1.0	1.1	1.2	1.3	1.4	1.4
Percent distribution:										
Reference person:										
Men	47	49	46	39	40	46	49	51	53	58
Women	53	51	54	61	60	54	51	49	47	42
Housing tenure:										
Homeowner	50	28	29	42	54	54	51	56	62	70
With mortgage	21	8	7	9	13	17	24	30	41	51
Without mortgage	29	19	22	33	41	37	27	27	21	19
Renter	50	72	71	58	46	46	49	44	38	30
Race of reference person:										
Black or African-American	13	19	20	15	12	12	12	13	9	9
White, Asian, and all other races	87	81	80	85	88	88	88	87	91	91
Hispanic or Latino origin of reference person:										
Hispanic or Latino	8	9	14	9	7	7	7	6	5	5
Not Hispanic or Latino	92	91	86	91	93	93	93	94	95	95
Education of reference person:										
Elementary (1-8)	6	7	13	12	8	4	3	1	1	(¹)
High school (9-12)	32	33	35	46	42	39	31	29	15	8
College	62	60	51	42	49	57	66	70	84	92
Never attended and other	(¹)	(¹)	1	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(²)
At least one vehicle owned or leased	75	50	49	61	75	82	87	91	91	90
Average annual expenditures	\$30,992	\$18,395	\$17,126	\$18,499	\$22,913	\$28,228	\$31,362	\$35,334	\$44,926	\$69,305
Food	3,576	2,789	2,585	2,714	2,902	3,229	3,470	3,570	4,775	6,440
Food at home	2,045	1,660	1,691	1,856	1,947	1,927	2,039	2,015	2,445	2,783
Cereals and bakery products	280	222	254	254	278	273	274	271	328	351
Cereals and cereal products	89	76	90	80	86	84	85	81	108	110
Bakery products	191	146	165	174	192	190	188	190	220	241
Meats, poultry, fish, and eggs	402	350	361	374	379	377	420	385	447	524

Table 3403. Consumer units of one person by income before taxes: Average annual expenditures and characteristics, Consumer Expenditure Survey, 2012-2013 — Continued

Item	Total one person	Less than \$5,000	\$5,000 to \$9,999	\$10,000 to \$14,999	\$15,000 to \$19,999	\$20,000 to \$29,999	\$30,000 to \$39,999	\$40,000 to \$49,999	\$50,000 to \$69,999	\$70,000 and more
Food away from home	1,531	1,129	894	858	955	1,302	1,431	1,555	2,330	3,657
Alcoholic beverages	341	174	148	115	198	250	406	429	574	878
Housing	11,645	7,541	6,995	7,715	9,290	11,060	11,945	13,377	15,958	23,127
Shelter	7,484	5,048	4,672	4,816	5,673	6,873	7,472	8,766	10,554	15,346
Owned dwellings	3,398	1,448	986	1,529	2,302	3,010	3,058	4,067	5,752	9,613
Mortgage interest and charges	1,391	505	287	456	550	921	1,234	1,772	2,801	4,841
Property taxes	1,119	534	399	631	959	1,132	987	1,189	1,698	2,721
Maintenance, repairs, insurance, other expenses	888	409	300	442	793	958	836	1,106	1,253	2,050
Rented dwellings	3,777	3,406	3,522	3,194	3,219	3,633	4,234	4,400	4,345	4,518
Other lodging	309	194	165	93	152	230	181	299	457	1,215
Utilities, fuels, and public services	2,316	1,450	1,494	1,868	2,245	2,450	2,472	2,692	2,863	3,341
Natural gas	244	125	149	189	234	252	249	279	350	379
Electricity	921	637	685	809	944	993	1,003	1,015	997	1,172
Fuel oil and other fuels	97	344	333	81	117	116	72	106	125	167
Telephone services	735	472	455	550	627	764	814	905	996	1,096
Residential phone service, VOIP, and phone cards	279	162	210	286	311	311	255	295	278	360
Cellular phone service	457	310	244	264	316	453	559	610	719	735
Water and other public services	318	172	173	240	323	325	334	386	395	528
Household operations	626	290	200	325	502	741	663	733	790	1,451
Personal services	71	361	31	350	3104	3155	3108	319	37	386
Other household expenses	555	229	199	276	398	586	555	714	798	1,365
Housekeeping supplies	342	248	212	255	314	318	375	286	416	634
Laundry and cleaning supplies	80	75	65	65	75	70	96	63	111	99
Other household products	174	107	111	129	150	143	173	154	206	397
Postage and stationery	88	67	36	62	89	105	106	69	100	138
Household furnishings and equipment	877	505	418	450	556	678	962	900	1,334	2,354
Household textiles	65	99	34	39	66	54	47	68	85	122
Furniture	216	94	80	93	85	185	220	219	371	683
Floor coverings	8	2	3	4	4	8	12	6	13	25
Major appliances	103	39	47	63	77	104	104	108	179	219
Small appliances, miscellaneous housewares	61	30	32	55	38	57	52	65	99	119
Miscellaneous household equipment	424	242	221	196	287	270	527	434	588	1,187
Apparel and services	864	580	645	397	614	665	829	1,036	1,150	2,180
Men and boys	209	183	156	59	84	118	183	220	319	707
Men, 16 and over	196	179	151	53	76	109	167	215	287	673
Boys, 2 to 15	13	34	36	6	9	9	15	5	33	34
Women and girls	347	128	294	190	287	306	359	469	496	650
Women, 16 and over	332	127	291	181	278	295	336	439	470	623
Girls, 2 to 15	15	31	33	9	10	11	23	31	26	26
Children under 2	14	38	38	39	311	311	325	37	318	323
Footwear	141	100	108	63	137	131	139	185	153	287
Other apparel products and services	153	161	78	76	95	98	123	155	164	512
Transportation	4,777	2,496	2,048	2,544	3,251	4,658	5,517	6,066	7,881	9,465
Vehicle purchases (net outlay)	1,485	3691	396	681	866	1,408	1,833	1,860	2,701	3,326
Cars and trucks, new	679	3279	379	3288	3480	515	768	840	1,254	1,864

Fringe Benefits

- Paid Leave / Vacations
- Supplemental Pay / Overtime
- Insurance
 - Life, Health, Disability
- Retirement Plans
 - Defined Benefit & Defined Contribution
- Legally Required
 - SS, Medicare, Unemployment & Workers' Comp.
- Other unconventional benefits

Fringe Benefits

Source: Bureau of Labor Statistics Economic News Release, "Employer Costs for Employee Compensation", Table 6.



Economic News Release

Table 6. Private industry, by major industry group

Table 6. Employer costs per hour worked for employee compensation and costs as a percent of total compensation: Private industry workers, by major industry group, December 2014

Compensation component	Goods-producing(1)								Service-providing(2)													
	All goods-producing (1)		Construction		Manufacturing		All service-providing (2)		Trade, transportation, and utilities		Information		Financial activities		Professional and business services		Education and health services		Leisure and hospitality		Other services	
	Cost	Percent	Cost	Percent	Cost	Percent	Cost	Percent	Cost	Percent	Cost	Percent	Cost	Percent	Cost	Percent	Cost	Percent	Cost	Percent	Cost	
Total compensation.....	\$37.21	100.0	\$36.31	100.0	\$36.73	100.0	\$30.10	100.0	\$25.74	100.0	\$55.44	100.0	\$44.03	100.0	\$38.49	100.0	\$32.70	100.0	\$13.19	100.0	\$25.59	100.0
Wages and salaries.....	24.61	66.1	24.97	68.8	23.95	65.2	21.13	70.2	18.10	70.3	34.31	61.9	28.97	65.8	27.21	70.7	23.14	70.8	10.33	78.3	18.55	72.5
Total benefits.....	12.60	33.9	11.34	31.2	12.78	34.8	8.98	29.8	7.64	29.7	21.13	38.1	15.06	34.2	11.28	29.3	9.56	29.2	2.86	21.7	7.04	27.4
Paid leave.....	2.44	6.6	1.59	4.4	2.77	7.6	2.10	7.0	1.60	6.2	4.82	8.7	3.69	8.4	2.80	7.3	2.51	7.7	0.41	3.1	1.53	5.9
Vacation.....	1.27	3.4	0.82	2.2	1.45	3.9	1.09	3.6	0.86	3.3	2.50	4.5	1.92	4.4	1.47	3.8	1.26	3.9	0.22	1.7	0.73	2.8
Holiday.....	0.85	2.3	0.57	1.6	0.96	2.6	0.61	2.0	0.47	1.8	1.20	2.2	1.06	2.4	0.85	2.2	0.73	2.2	0.12	0.9	0.51	2.0
Sick.....	0.22	0.6	0.13	0.4	0.27	0.7	0.27	0.9	0.20	0.8	0.56	1.0	0.50	1.1	0.32	0.8	0.37	1.1	0.05	0.4	0.19	0.7
Personal.....	0.09	0.2	0.07	0.2	0.10	0.3	0.12	0.4	0.07	0.3	0.57	1.0	0.21	0.5	0.16	0.4	0.14	0.4	0.02	0.2	0.10	0.4
Supplemental pay.....	1.49	4.0	0.96	2.6	1.62	4.4	1.02	3.4	0.64	2.5	2.42	4.4	3.12	7.1	1.82	4.7	0.99	1.8	0.15	1.1	0.35	1.3
Overtime and premium(3).....	0.57	1.5	0.60	1.6	0.53	1.4	0.20	0.7	0.27	1.0	0.35	0.6	0.17	0.4	0.22	0.6	0.18	0.6	0.07	0.5	0.14	0.5
Shift differentials.....	0.08	0.2	(4)	(5)	0.12	0.3	0.05	0.2	0.02	0.1	0.06	0.1	(4)	(5)	0.02	0.1	0.18	0.6	(4)	(5)	0.02	0.1
Nonproduction bonuses.....	0.84	2.3	0.35	1.0	0.97	2.6	0.77	2.5	0.35	1.3	2.00	3.6	2.94	6.7	1.58	4.1	0.22	0.7	0.07	0.5	0.19	0.7
Insurance.....	3.46	9.3	2.92	8.1	3.68	10.0	2.34	7.8	2.22	8.6	5.20	9.4	3.68	8.4	2.44	6.3	2.82	8.6	0.71	5.4	1.88	7.3
Life.....	0.07	0.2	0.04	0.1	0.07	0.2	0.04	0.1	0.03	0.1	0.06	0.1	0.05	0.1	0.05	0.1	0.04	0.1	(4)	(5)	0.03	0.1
Health.....	3.26	8.8	2.80	7.7	3.46	9.4	2.21	7.3	2.09	8.1	4.78	8.6	3.44	7.8	2.26	5.9	2.68	8.2	0.68	5.2	1.80	7.0
Short-term disability.....	0.08	0.2	0.05	0.1	0.09	0.2	0.05	0.2	0.04	0.1	0.27	0.5	0.12	0.3	0.06	0.2	0.04	0.1	(4)	(5)	0.03	0.1
Long-term disability.....	0.05	0.1	0.03	0.1	0.06	0.2	0.05	0.2	0.05	0.2	0.07	0.1	0.06	0.1	0.06	0.2	0.05	0.2	(4)	(5)	0.02	0.1
Retirement and savings.....	2.02	5.4	2.07	5.7	1.84	5.0	1.16	3.8	0.96	3.7	5.15	9.3	1.73	3.9	1.38	3.6	1.19	3.6	0.19	1.5	1.09	4.2
Defined benefit.....	1.14	3.1	1.33	3.7	0.95	2.6	0.51	1.7	0.46	1.8	3.76	6.8	0.49	1.1	0.57	1.5	0.40	1.2	0.08	0.6	0.60	2.3
Defined contribution.....	0.88	2.4	0.74	2.0	0.89	2.4	0.65	2.2	0.50	1.9	1.40	2.5	1.24	2.8	0.81	2.1	0.79	2.4	0.11	0.8	0.49	1.9
Legally required benefits.....	3.19	8.6	3.80	10.5	2.87	7.8	2.35	7.8	2.23	8.7	3.53	6.4	2.84	6.4	2.85	7.4	2.45	7.5	1.40	10.6	2.18	8.5
Social Security and Medicare.....	2.09	5.6	2.07	5.7	2.07	5.6	1.74	5.8	1.49	5.8	2.97	5.4	2.38	5.4	2.19	5.7	1.91	5.8	0.90	6.8	1.53	5.9
Social Security(6).....	1.68	4.5	1.67	4.6	1.66	4.5	1.39	4.6	1.20	4.7	2.37	4.3	1.87	4.2	1.73	4.5	1.53	4.7	0.73	5.5	1.24	4.7
Medicare.....	0.41	1.1	0.40	1.1	0.41	1.1	0.35	1.2	0.29	1.1	0.60	1.1	0.51	1.2	0.46	1.2	0.38	1.2	0.17	1.3	0.30	1.1
Federal unemployment insurance.....	0.04	0.1	0.04	0.1	0.04	0.1	0.04	0.1	0.04	0.2	0.04	0.1	0.04	0.1	0.04	0.1	0.03	0.1	0.05	0.4	0.04	0.1
State unemployment insurance.....	0.28	0.7	0.38	1.0	0.24	0.7	0.20	0.7	0.18	0.7	0.24	0.4	0.22	0.5	0.25	0.6	0.19	0.6	0.18	1.4	0.22	0.8
Workers' compensation.....	0.78	2.1	1.32	3.6	0.53	1.5	0.37	1.2	0.51	2.0	0.29	0.5	0.20	0.5	0.37	1.0	0.32	1.0	0.27	2.1	0.39	1.5

1 Includes mining, construction, and manufacturing. The agriculture, forestry, farming, and hunting sector is excluded.

2 Includes utilities; wholesale trade; retail trade; transportation and warehousing; information; finance and insurance; real estate and rental and leasing; professional and technical services; management of companies and enterprises; administrative and waste services; educational services; health care and social assistance; arts, entertainment and recreation; accommodation and food services; and other services, except public administration.

3 Includes premium pay for work in addition to the regular work schedule (such as overtime, weekends, and holidays).

4 Cost per hour worked is \$0.01 or less.

5 Less than .05 percent.

6 Comprises the Old-Age, Survivors, and Disability Insurance (OASDI) program.

Note: The sum of individual items may not equal totals due to rounding.

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Last Modified Date: March 11, 2015

Lost Production of Household Services

- Assumed to be unable to perform services
 - May need a vocational or medical expert
- Economic value is lost to the family because the service will:
 - not be done at all or not as often
 - be done by someone else in the household (at the expense of other things the "someone else" might have been doing)
 - require outside assistance which may have to be paid for that otherwise would not

Lost Production of Household Services

Source: Expectancy Data, The Dollar Value of a Day: 2014 Dollar Valuation. Shawnee Mission, Kansas, 2015.



Table 7. Married males, that work full-time, no children under age 18

Time Use Category	Weekly Hours	Hourly Value	Dollar Value of a Day	Weekly Waking Hours				Participation Rate	Standard Error Percent
				Secondary Child Care	With Family	At Home	Alone		
Inside Housework	1.31	\$12.45	\$2.33	0.00	0.58	1.26	0.72	15.8%	2.6%
Food Cooking & Clean-up	1.82	12.05	3.13	0.00	0.97	1.76	0.81	37.3	1.5
Pets, Home & Vehicles	5.41	14.41	11.13	0.01	1.47	4.90	3.74	38.3	1.6
Household Management	0.98	18.57	2.61	0.00	0.46	0.75	0.48	20.9	2.8
Shopping	2.08	13.06	3.88	0.00	1.27	0.05	0.74	35.9	1.7
Obtaining Services	0.12	15.85	0.27	0.00	0.04	0.05	0.05	2.5	7.0
Travel for Household Activity	2.04	14.14	4.13	0.01	1.02	0.01	0.97	40.1	1.4
Household Production	13.76	13.98	27.47	0.03	5.80	8.78	7.51	76.7	0.9
Household Children	0.00	12.77	0.00	n/a	0.00	0.00	0.00	0.0	0.0
Household Adults	0.22	12.61	0.40	0.00	0.18	0.11	0.04	6.6	7.0
Non-Household Members	0.94	13.06	1.75	0.01	0.62	0.25	0.08	9.3	4.1
Travel for Household Members	0.18	15.85	0.41	0.00	0.11	0.00	0.06	3.9	3.8
Travel for Non-Household Members	0.36	15.85	0.81	0.00	0.17	0.00	0.13	7.4	2.9
Caring and Helping	1.70	13.88	3.37	0.01	1.07	0.36	0.32	15.1	2.7
Eating & Drinking	8.76	12.89	16.13	0.01	5.21	4.80	2.17	96.7	0.6
Personal Health Care	0.61	12.41	1.08	0.00	0.18	0.35	0.36	5.6	5.9
Grooming	4.09	12.46	7.29	0.00	n/a	n/a	n/a	80.2	0.6
Sleeping	56.60	13.97	112.95	n/a	n/a	n/a	n/a	99.9	0.4
Private, Personal, or N/A	1.55	13.75	3.05	0.01	0.46	0.58	0.60	18.2	2.8
Personal Time	71.61	13.73	140.49	0.02	5.85	5.73	3.13	100.0	0.5
Socializing	4.05	13.63	7.89	0.01	3.20	1.75	0.15	35.0	1.6
Passive Leisure	23.80	12.76	43.38	0.04	13.88	22.33	9.26	92.1	0.6
Active Leisure	2.38	12.76	4.34	0.00	0.76	0.41	0.92	19.2	2.3
Attendance Leisure	0.88	12.76	1.60	0.01	0.62	0.03	0.10	4.5	3.0
Religious Activities	0.70	17.36	1.74	0.00	0.49	0.09	0.15	6.2	2.5
Volunteering	0.76	17.36	1.89	0.00	0.30	0.15	0.17	5.5	3.5
Travel Related to Leisure	2.93	14.14	5.91	0.01	1.59	0.04	1.13	52.2	1.4
Leisure	35.50	13.16	66.75	0.06	20.85	24.80	11.88	97.3	0.5
Working at Job	41.61	59.27	352.35	0.00	0.76	3.71	4.81	71.8	0.6
Educational Activities	0.22	17.36	0.56	0.00	0.05	0.16	0.14	0.9	5.2
Commuting to Work or School	3.60	14.14	7.27	0.00	0.24	0.03	3.14	61.1	1.0
Work and Education	45.43	55.49	360.18	0.00	1.05	3.90	8.09	72.7	0.7
Total	168.00	\$24.93	\$598.26	0.12	34.63	43.57	30.92		
Size of U.S. Population in 2003-2014	21,159,355			Average Age		50.2			
ATUS Respondents in 2003-2014	9,146			5th Percentile Age		27.0			
Sunday Respondents	2,263			95th Percentile Age		67.0			
Weekday Respondents	4,650			Household Size		2.25			
Saturday Respondents	2,233			Number of Adults		2.25			
				Number of Children under Age 18		0.00			
				Household Production Weekly Hours for the Benefit of the Respondent		1.65			
				Percentage of Total Household Production Weekly Hours Benefiting the Respondent		12.0%			

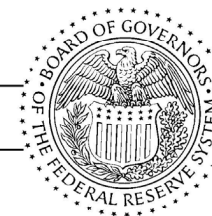
Table 99. Married females, that are homemakers, have children under age 18

Time Use Category	Weekly Hours	Hourly Value	Dollar Value of a Day	Weekly Waking Hours				Participation Rate	Standard Error Percent
				Secondary Child Care	With Family	At Home	Alone		
Inside Housework	11.14	\$12.45	\$19.81	6.82	5.08	10.90	5.97	74.0%	1.0%
Food Cooking & Clean-up	10.46	12.05	18.00	7.36	5.50	10.27	4.81	88.8	0.7
Pets, Home & Vehicles	2.17	14.41	4.47	1.28	1.30	1.95	0.83	23.4	2.4
Household Management	1.34	18.57	3.56	0.77	0.77	1.03	0.54	27.4	2.8
Shopping	4.27	13.06	7.97	2.47	3.04	0.12	1.09	50.8	1.3
Obtaining Services	0.17	15.85	0.37	0.08	0.08	0.09	0.05	4.1	7.6
Travel for Household Activity	2.63	14.14	5.30	1.52	1.96	0.04	0.61	54.8	1.2
Household Production	32.17	12.94	59.49	20.30	17.74	24.38	13.91	97.8	0.5
Household Children	17.79	12.77	32.45	n/a	17.25	14.66	0.38	85.6	0.7
Household Adults	0.22	12.61	0.40	0.11	0.19	0.12	0.02	7.4	8.0
Non-Household Members	0.71	13.06	1.32	0.30	0.50	0.21	0.05	10.9	6.3
Travel for Household Members	2.26	15.85	5.12	0.07	1.77	0.05	0.46	44.4	1.1
Travel for Non-Household Members	0.31	15.85	0.71	0.16	0.23	0.00	0.05	9.1	2.8
Caring and Helping	21.30	13.15	40.01	0.63	19.93	15.04	0.97	87.7	0.6
Eating & Drinking	7.81	12.89	14.37	5.77	6.94	5.97	0.61	97.0	0.6
Personal Health Care	0.72	12.41	1.28	0.26	0.33	0.27	0.30	6.8	5.2
Grooming	4.02	12.46	7.15	2.04	n/a	n/a	n/a	72.8	0.9
Sleeping	61.67	13.97	123.07	n/a	n/a	n/a	n/a	100.0	0.4
Private, Personal, or N/A	2.50	13.75	4.92	1.47	1.25	1.20	0.49	29.7	2.1
Personal Time	76.72	13.76	150.80	9.53	8.52	7.45	1.40	100.0	0.5
Socializing	6.40	13.63	12.47	4.22	5.51	3.15	0.36	49.4	1.4
Passive Leisure	19.92	12.76	36.31	11.44	14.71	19.18	4.99	90.0	0.7
Active Leisure	1.79	12.76	3.27	0.93	1.04	0.54	0.52	17.8	2.3
Attendance Leisure	0.97	12.76	1.76	0.54	0.75	0.05	0.09	5.4	3.1
Religious Activities	1.11	17.36	2.75	0.70	0.87	0.24	0.17	10.9	2.5
Volunteering	1.47	17.36	3.63	0.63	0.77	0.40	0.34	10.1	2.9
Travel Related to Leisure	2.50	14.14	5.06	1.54	2.05	0.04	0.36	48.1	1.6
Leisure	34.16	13.37	65.25	20.00	25.72	23.60	6.84	97.4	0.6
Working at Job	2.76	42.62	16.83	0.38	0.16	0.48	0.16	7.5	2.9
Educational Activities	0.54	17.36	1.34	0.21	0.10	0.30	0.35	2.3	4.3
Commuting to Work or School	0.35	14.14	0.70	0.07	0.10	0.01	0.23	7.7	3.0
Work and Education	3.65	36.17	18.87	0.66	0.36	0.79	0.73	11.2	2.7
Total	168.00	\$13.93	\$334.42	51.12	72.27	71.25	23.85		
Size of U.S. Population in 2003-2014	8,389,616			Average Age		36.1			
ATUS Respondents in 2003-2014	6,885			5th Percentile Age		23.0			
Sunday Respondents	1,864			95th Percentile Age		50.0			
Weekday Respondents	3,453			Household Size		4.32			
Saturday Respondents	1,568			Number of Adults		2.11			
				Number of Children under Age 18		2.21			
				Household Production Weekly Hours for the Benefit of the Respondent		3.41			
				Percentage of Total Household Production Weekly Hours Benefiting the Respondent		10.6%			

Discount Rate

- Investment rate for the present value lump sum award with little to no risk
 - Jones and Laughlin Steel Corporation v. Howard E. Pfeifer (462 U.S. 523; 1983; US Sup Crt)
- Nominal Approach-Includes inflation
- Net Approach-Excludes inflation
- Total Offset-Inflation offsets discounting
- Source: U.S. Federal Reserve Statistical release

FEDERAL RESERVE statistical release



H.15 (519) SELECTED INTEREST RATES

For use at 2:30 p.m. Eastern Time

Yields in percent per annum

March 2, 2015

Instruments	2015 Feb 23	2015 Feb 24	2015 Feb 25	2015 Feb 26	2015 Feb 27	Week Ending		2015 Feb
						Feb 27	Feb 20	
Federal funds (effective) ^{1 2 3}	0.11	0.11	0.11	0.11	0.06	0.12	0.12	0.11
Commercial Paper ^{3 4 5 6}								
Nonfinancial								
1-month	0.08	0.07	0.07	0.08	0.08	0.08	0.06	0.08
2-month	0.04	0.10	0.09	0.10	n.a.	0.08	0.09	0.09
3-month	0.14	0.12	0.12	0.12	n.a.	0.13	0.12	0.12
Financial								
1-month	0.09	0.10	n.a.	0.09	0.09	0.09	0.10	0.10
2-month	0.11	0.11	0.11	0.11	0.12	0.11	0.12	0.12
3-month	0.14	0.14	0.15	0.14	0.15	0.14	0.16	0.15
Eurodollar deposits (London) ^{3 7}								
1-month	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
3-month	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
6-month	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
Bank prime loan ^{2 3 8}	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25
Discount window primary credit ^{2 9}	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
U.S. government securities								
Treasury bills (secondary market) ^{3 4}								
4-week	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02
3-month	0.02	0.02	0.02	0.03	0.02	0.02	0.02	0.02
6-month	0.08	0.08	0.07	0.07	0.07	0.07	0.07	0.07
1-year	0.20	0.20	0.19	0.19	0.19	0.19	0.22	0.21
Treasury constant maturities								
Nominal ¹⁰								
1-month	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02
3-month	0.02	0.02	0.02	0.03	0.02	0.02	0.02	0.02
6-month	0.08	0.08	0.07	0.07	0.07	0.07	0.07	0.07
1-year	0.22	0.22	0.21	0.22	0.22	0.22	0.24	0.22
2-year	0.64	0.60	0.61	0.66	0.63	0.63	0.67	0.62
3-year	1.03	0.97	0.98	1.04	1.01	1.01	1.06	0.99
5-year	1.56	1.47	1.47	1.54	1.50	1.51	1.58	1.47
7-year	1.88	1.79	1.78	1.86	1.82	1.83	1.92	1.79
10-year	2.06	1.99	1.96	2.03	2.00	2.01	2.11	1.98
20-year	2.44	2.38	2.35	2.39	2.38	2.39	2.49	2.34
30-year	2.66	2.60	2.56	2.63	2.60	2.61	2.72	2.57
Inflation indexed ¹¹								
5-year	0.22	0.14	0.11	0.05	0.01	0.11	0.24	0.11
7-year	0.30	0.23	0.20	0.23	0.13	0.22	0.34	0.22
10-year	0.34	0.27	0.24	0.24	0.17	0.25	0.39	0.26
20-year	0.58	0.51	0.48	0.52	0.44	0.51	0.64	0.52
30-year	0.79	0.73	0.70	0.72	0.68	0.72	0.84	0.73
Inflation-indexed long-term average ¹²	0.64	0.58	0.54	0.55	0.51	0.56	0.69	0.58
Interest rate swaps ¹³								
1-year	0.48	0.47	0.47	0.48	0.48	0.48	0.48	0.47

The Basic “Formula”

- + Loss of Earning Capacity over Worklife Expectancy
- Mitigating Earnings
- Personal Consumption or Maintenance

✓ = Net Earnings Loss

✓ + Loss of Fringe Benefits

✓ + Lost Production of Household Services over Life Expectancy

✓ + Future Medical Expenses

= Total Loss (i.e., Total Damages) @ Present Value

✓ **Present Valued**

Loss of Earning Capacity, Fringe Benefits, Household Services and Future Medical Costs

Exhibit A

Seminar Input

Pre-Trial				Loss of Earning Capacity								Loss of Fringe Benefits		Lost Production of Household Services		Total Annual Loss	
Year	Pres. Value	Earnings Growth	Discount Rate	Could Have Earned	Will Earn	Gross Earnings	Personal Consumption	Net Earnings	Year Fractions	Net Earnings Loss	Present Value	Benefit Loss	Present Value	Services Loss	Present Value	Total Loss	Present Value
Ending	Year	Exhibit F		Exhibit E		Earnings	Exhibit D	Earnings	Fractions	Loss		Exhibit B		Exhibit C		Total Loss	
12/31/2008	0	1.70%	0.0%	0	0	0	0	0	0.67	0	0	0	0	6,379	6,379	6,379	6,379
12/31/2009	0	1.70%	0.0%	0	0	0	0	0	1.00	0	0	0	0	9,521	9,521	9,521	9,521
12/31/2010	0	1.70%	0.0%	0	0	0	0	0	1.00	0	0	0	0	9,521	9,521	9,521	9,521
12/31/2011	0	1.70%	0.0%	0	0	0	0	0	1.00	0	0	0	0	9,521	9,521	9,521	9,521
12/31/2012	0	1.70%	0.0%	50,000	0	50,000	(33,550)	16,450	1.00	16,450	16,450	12,900	12,900	9,521	9,521	38,871	38,871
12/31/2013	0	1.70%	0.0%	50,850	0	50,850	(34,120)	16,730	1.00	16,730	16,730	13,119	13,119	9,521	9,521	39,370	39,370
12/31/2014	0	1.70%	0.0%	51,714	0	51,714	(34,700)	17,014	1.00	17,014	17,014	13,342	13,342	9,521	9,521	39,877	39,877
08/29/2015	0	1.70%	0.0%	52,593	0	52,593	(35,290)	17,303	0.66	11,420	11,420	8,956	8,956	6,284	6,284	26,660	26,660
Total Pre-Trial				205,157	0	205,157	(137,660)	67,497		61,614	61,614	48,317	48,317	69,789	69,789	179,720	179,720

Post-Trial																	
08/29/2016	1	1.70%	2.39%	53,487	0	53,487	(35,890)	17,597	1.00	17,597	17,186	13,800	13,478	9,521	9,390	40,918	40,055
08/29/2017	2	1.70%	2.39%	54,396	0	54,396	(36,500)	17,896	1.00	17,896	17,070	14,034	13,386	9,521	9,262	41,451	39,719
08/29/2018	3	1.70%	2.39%	55,321	0	55,321	(35,461)	19,860	1.00	19,860	18,501	14,273	13,297	9,521	9,135	43,654	40,933
08/29/2019	4	1.70%	2.39%	56,261	0	56,261	(36,063)	20,198	1.00	20,198	18,377	14,515	13,206	9,521	9,010	44,234	40,593
08/29/2020	5	1.70%	2.39%	57,217	0	57,217	(36,676)	20,541	1.00	20,541	18,253	14,762	13,118	9,521	8,886	44,824	40,257
08/29/2021	6	1.70%	2.39%	58,190	0	58,190	(37,300)	20,890	1.00	20,890	18,130	15,013	13,029	9,521	8,764	45,424	39,923
08/29/2022	7	1.70%	2.39%	59,179	0	59,179	(37,934)	21,245	1.00	21,245	18,008	15,268	12,941	9,521	8,644	46,034	39,593
08/29/2023	8	1.70%	2.39%	60,185	0	60,185	(36,984)	23,201	1.00	23,201	19,206	15,528	12,854	9,521	8,526	48,250	40,586
08/29/2024	9	1.70%	2.39%	61,208	0	61,208	(37,612)	23,596	1.00	23,596	19,077	15,792	12,768	9,521	8,409	48,909	40,254
08/29/2025	10	1.70%	2.39%	62,249	0	62,249	(38,252)	23,997	1.00	23,997	18,949	16,060	12,681	9,521	8,293	49,578	39,924
08/29/2026	11	1.70%	2.39%	63,307	0	63,307	(38,902)	24,405	1.00	24,405	18,821	16,333	12,596	9,521	8,180	50,259	39,597
08/29/2027	12	1.70%	2.39%	64,383	0	64,383	(39,563)	24,820	1.00	24,820	18,694	16,611	12,511	9,521	8,068	50,952	39,273
08/29/2028	13	1.70%	2.39%	65,478	0	65,478	(38,763)	26,715	1.00	26,715	19,652	16,893	12,427	9,521	7,957	53,129	40,036
08/29/2029	14	1.70%	2.39%	66,591	0	66,591	(39,422)	27,169	1.00	27,169	19,519	17,180	12,343	9,521	7,848	53,870	39,710
08/29/2030	15	1.70%	2.39%	67,723	0	67,723	(40,092)	27,631	1.00	27,631	19,388	17,473	12,260	9,521	7,740	54,625	39,389
08/29/2031	16	1.70%	2.39%	68,874	0	68,874	(40,773)	28,101	1.00	28,101	19,258	17,769	12,177	9,521	7,634	55,391	39,069
08/29/2032	17	1.70%	2.39%	70,045	0	70,045	(39,996)	30,049	1.00	30,049	20,112	18,072	12,096	9,521	7,529	57,642	39,737
08/29/2033	18	1.70%	2.39%	71,236	0	71,236	(40,676)	30,560	1.00	30,560	19,976	18,379	12,014	9,521	7,426	58,460	39,417
08/29/2034	19	1.70%	2.39%	72,447	0	72,447	(41,367)	31,080	1.00	31,080	19,842	18,691	11,933	9,521	7,324	59,292	39,099
08/29/2035	20	1.70%	2.39%	73,679	0	73,679	(42,071)	31,608	1.00	31,608	19,708	19,009	11,852	9,521	7,224	60,138	38,785
08/29/2036	21	1.70%	2.39%	74,932	0	74,932	(42,786)	32,146	1.00	32,146	19,576	19,332	11,772	9,521	7,125	60,999	38,473
08/29/2037	22	1.70%	2.39%	76,206	0	76,206	(42,104)	34,102	1.00	34,102	20,282	19,661	11,693	9,521	7,027	63,284	39,003
08/29/2038	23	1.70%	2.39%	77,502	0	77,502	(42,820)	34,682	1.00	34,682	20,146	19,996	11,615	9,521	6,931	64,199	38,692
08/29/2039	24	1.70%	2.39%	78,820	0	78,820	(43,548)	35,272	1.00	35,272	20,010	20,336	11,537	9,521	6,836	65,129	38,383
08/29/2040	25	1.70%	2.39%	80,160	0	80,160	(42,926)	37,234	1.00	37,234	20,630	20,681	11,459	9,521	6,742	67,436	38,831
08/29/2041	26	1.70%	2.39%	81,523	0	81,523	(43,656)	37,867	1.00	37,867	20,491	21,033	11,382	9,521	6,650	68,421	38,523
08/29/2042	27	1.70%	2.39%	82,909	0	82,909	(44,398)	38,511	1.00	38,511	20,353	21,391	11,305	9,521	6,559	69,423	38,217
08/29/2043	28	1.70%	2.39%	84,318	0	84,318	(45,152)	39,166	1.00	39,166	20,216	21,754	11,229	9,521	6,469	70,441	37,914
08/29/2044	29	1.70%	2.39%	85,751	0	85,751	(44,633)	41,118	1.00	41,118	20,728	22,124	11,153	9,521	6,380	72,763	38,261
08/29/2045	30	1.70%	2.39%	87,209	0	87,209	(45,392)	41,817	1.00	41,817	20,589	22,500	11,078	9,521	6,293	73,838	37,959
08/29/2046	31	1.70%	2.39%	88,692	0	88,692	(46,164)	42,528	0.17	7,230	3,476	3,890	1,871	1,619	1,055	12,738	6,402
08/29/2047	32	1.70%	2.39%	0	0	0	0	0	1.00	0	0	0	0	15,066	9,686	15,066	9,686
08/29/2063	48	1.70%	2.39%	0	0	0	0	0	1.00	0	0	0	0	15,066	7,767	15,066	7,767
10/30/2063	49	1.70%	2.39%	0	0	0	0	0	0.17	0	0	0	0	2,561	1,302	2,561	1,302
Total Post-Trial				2,159,478	0	2,159,478	(1,253,876)	905,602		870,304	584,227	538,153	369,062	545,932	382,404	1,954,389	1,335,693
Grand Totals				2,364,635	0	2,364,635	(1,391,536)	973,099		931,918	645,841	586,470	417,379	615,721	452,193	2,134,108	1,515,413