MMPI-2 FAKE BAD SCALE (FBS)

INSTRUCTIONS:

Enter the item responses below. Then go to the "Interpretation" worksheet for help interpreting the score.

Note: This scoring form will not work correctly if there are missing items.

If you already have the raw score, go directly to the Interpretation page and enter the score in the yellow box

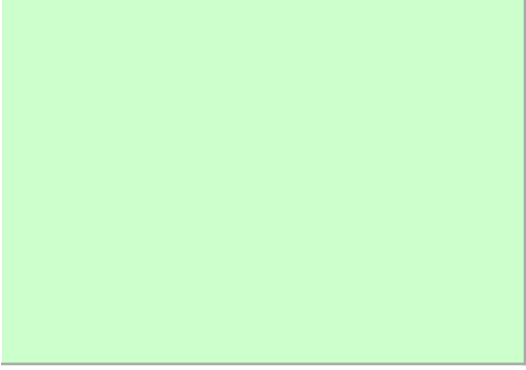| Item	Response (1 = TRUE, 2 = FALSE)	Total FBS Score	0
11			
12			
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28			
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57			
58			
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505	
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561	

Revised March 19, 2005

FBS Total Score   29

Suggested Cutoff Scores

Suggested cutoff scores are 24 for males and 26 for females *(Source: Lees-Haley et al., Psychol Reports 199*
Suggested cutoff score for detecting probable TBI malingerers is 21 *(Source: Ross et al., J Clin Exper Neurop*
Suggested cutoff score for detecting definite TBI malingerers is 21 *(Source: Larrabee, The Clin Neuropsychol*
Suggested cutoff score for malingering mild TBI is 20 *(Source: Greiffenstein et al., J Clin Psychol 2002;58:159*
Suggested cutoff score for malingering severe TBI is 24 *(Source: Greiffenstein et al., J Clin Psychol 2002;58:1*
Suggested cutoff scores for detecting malingered PTSD are 23 for males and 25 for females *(Source: Lees-Ha*
Suggested cutoff scores for detecting malingered PTSD are 21 for males and 26 for females *(Source: Greiffen*
Suggested cutoff score for detecting malingered neuropsychological impairment is 22 *(Source: Dearth et al., A*
Suggested cutof score for detecting malingered severe mental illness in male inmates is 24-26 *(Source: Iverso*

Distance from MMPI-2 Normative Sample   *Note: All s*

If this person is male, their score is   4.55   SD from the population mean and their T-score is
If this person is female, their score is   3.68   SD from the population mean and their T-score is
*(Source: Greene, in Rogers, Clinical assessment of malingering and deception, New*
In the MMPI-2 normative sample,   0.0% of males and   0.2% of females
(Source: Greene, personal communication to D. Tolin, March 1, 2005)
FBS is normally distributed in the normative sample: Males skewness = 0.52, kurtosis = 0.56; Females skewn
(Source: Greene, personal communication to D. Tolin, March 1, 2005)

MMPI-2 Normative Sample (N = 2600)
(Source: Greene, Personal Communication to D. Tolin, March 1, 200
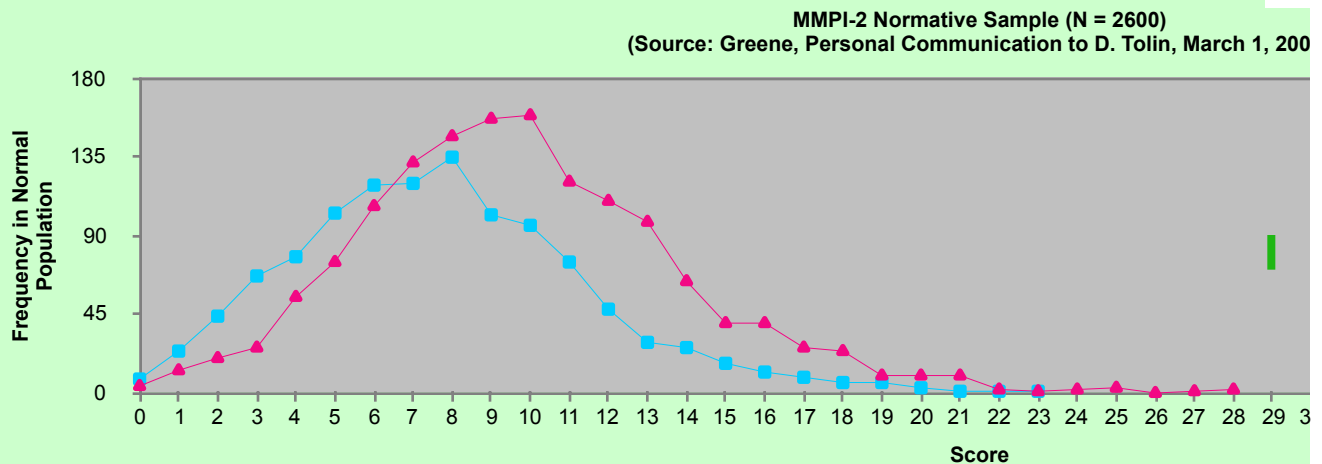
Distance from Other Populations

This score is   0.91   SD from the mean of a sample of 258 worker's compensation applicants.
This score is   1.83   SD from the mean of a sample of 88 psychiatric patients.
This score is   2.82   SD from the mean of a sample of 45 people on criminal probation.
This score is   5.40   SD from the mean of a sample of 132 job applicants.
(Source: Fox, personal communication to D. Tolin, March 2, 2005)

This score is   1.83   SD from the mean of a sample of 100 patients with reported cognitive impairment wh
This score is   1.00   SD from the mean of a sample of 100 patients with reported cognitive impairment wh
(Source: Meyers et al., Arch Clin Neuropsychol 2002; 17:157.169)

This score is	5.07	SD from the mean of female custody litigants and	5.07
This score is	3.86	SD from the mean of female custody litigants and	4.97
This score is	3.71	SD from the mean of female custody litigants and	5.00
This score is	0.97	SD from the mean of female personal injury litigants and	0.97

(Source: Posthuma & Harper, Prof Psychol: Res & Pract 1998;29:437-443)
(Note: Gender-specific N's not reported. Custody litigants/no abuse N = 80; custody

| This score is | 1.22 | SD from the mean of 492 personal injury litigants claiming impairment from physical |

(Source: Lees-Haley, J Clin Psychol 1997; 53:745-755)

This score is	1.33	SD from the mean of a sample of 120 psychiatric clinic patients who were involved i
This score is	2.07	SD from the mean of a sample of 208 psychiatric clinic patients who were not involv
This score is	5.37	SD from the mean of a sample of 43 control participants with no history of psycholog

(Source: Tsushima & Tsushima, Assessment 2001; 8:205-212)

| This score is | 1.80 | SD from the mean of a sample of 20 male medical patients being assessed for orga |
| This score is | 2.09 | SD from the mean of a sample of 25 male veterans in substance abuse treatment. |

(Source: Iverson et al., Psychol Reports 2002; 90:131-136)

Distance from Probable Malingering and Non-Malingering Groups

This score is	0.30	SD from the mean of a sample of 25 personal injury litigants judged to be malingerin
This score is	3.24	SD from the mean of a sample of 20 personal injury litigants judged to be credible (b
This score is	0.45	SD from the mean of a sample of 16 medical outpatients instructed to simulate emo
This score is	0.83	SD from the mean of a sample of 15 medical outpatients instructed to simulate emo
This score is	0.25	SD from the mean of a sample of 36 medical outpatients instructed to simulate emo
This score is	0.47	SD from the total mean of 67 medical outpatients instructed to simulate emotional di

(Source: Lees-Haley et al., Psychol Reports 1991;68:203-210)

| This score is | 0.43 | SD from the mean of a sample of 59 mild TBI patients who are not seeking compens |
| This score is | 0.08 | SD from the mean of a sample of 59 patients seeking compensation for mild TBI wh |

(Source: Ross et al., J Clin Exper Neuropsychol 2004;26:115-124)

| This score is | 3.72 | SD from the mean of males with probable PTSD and | 3.96 |
| This score is | 0.25 | SD from the mean of 26 males who appear to malinger PTSD and | -0.38 |

(Source: Greiffenstein et al., The Clin Neuropsychol 2004;18:573-590)

| This score is | 2.04 | SD from the mean of a sample of 64 personal injury litigants claiming non-PTSD psy |
| This score is | 0.35 | SD from the mean of a sample of 55 personal injury litigants appearing to malinger F |

(Source: Lees-Haley, J Clin Psychol 1992;48:681-689)

| This score is | 0.74 | SD from the mean of a a sample of 33 people claiming neuropsychological impairme |

(Source: Larrabee, Arch Clin Neuropsychol 2003;18:673-686)

This score is	0.50	SD from the mean of a sample of 24 definite neuropsychological malingerers.
This score is	0.40	SD from the mean of a sample of 17 definite neuropsychological malingerers.
This score is	2.40	SD from the mean of a sample of 54 patients with moderate/severe TBI, psychiatric

(Source: Larrabee, The Clin Neuropsychol 2003;17:410-425;
additional data from this study found in Larrabee, Forensic Neuropsychology: A Scie

This score is	0.87	SD from the mean of a sample of 23 TBI patients instructed to malinger TBI.
This score is	1.65	SD from the mean of a sample of 23 TBI patients instructed to respond honestly.
This score is	0.63	SD from the mean of a sample of 23 healthy volunteers instructed to malinger TBI.
This score is	3.35	SD from the mean of a sample of 23 healthy volunteers instructed to respond hones

(Source: Dearth et al., Arch Clin Neuropsychol 2005;20:95-110)

| This score is | 0.53 | SD from the mean of a sample of 26 people claiming neuropsychological impairmen |
| This score is | 2.21 | SD from the mean of a sample of 29 known TBI patients. |

(Source: Larrabee, The Clin Neuropsychol 2003;17:54-68)

| This score is | 4.68 | SD from the mean of a sample of 27 male minimum security prison inmates. |
| This score is | 1.28 | SD from the mean of a sample of 28 male minimum security prison inmates instructe |

(Source: Iverson et al., Psychol Assess 1995;7:118-121; reanalysis in Lees-Haley et

| This score is | 1.18 | SD from the mean of a sample of 42 patients with chronic psychiatric problems instr |
| This score is | 0.73 | SD from the same sample of 42 psychiatric patients instructed to malinger severe ps |

(Source: Rogers et al., Assessment 1995; 2:81-89)

This score is	0.35	SD from the mean of a sample of 61 patients with PTSD (validity of diagnosis not ch
This score is	-0.06	SD from the mean of a sample of 35 college students instructed to malinger PTSD v
This score is	0.52	SD from the mean of a sample of 29 college students instructed to malinger PTSD v
This score is	-0.08	SD from the mean of a sample of 30 college students instructed to malinger PTSD v
This score is	0.70	SD from the mean of a sample of 37 college students instructed to malinger PTSD v

(Source: Bury & Bagby, Psychol Assess 2002; 14:472-484)

| This score is | 0.68548 | SD from the mean of a sample of 159 mild TBI plaintiffs with illogical symptom histor |
| This score is | 1.76 | SD from the mean of a sample of 68 patients with documented moderate to severe T |

(Source: Greiffenstein et al., J Clin Psychol 2002; 58:1591-1600)

This score is	1.27272	SD from the mean of a sample of 48 patients with major depressive disorder.
This score is	0.13636	SD from the mean of a sample of 23 mental health professionals instructed to maling
This score is	1.59090	SD from the mean of a sample of 50 psychiatric patients with conditions other than r

(Source: Bagby et al., Assessment 2000; 7:55-62)

Detection of Malingering vs. True Illness
Sensitivity and Specificity

In a comparison of mild TBI patients and patients seeking compensation for mild TBI who scored poorly on a r
50.8% of probable malingerers obtained a score greater than or equal to 29

(Source: Ross et al., J Clin Exper Neuropsychol 2004;26:115-124)

In a comparison of closed head injury patients and definite neuropsychological malingerers,
42.3% of definite malingerers obtained a score greater than or equal to 29

(Source: Larrabee, The Clin Neuropsychol 2003;17:54-68)

Positive and Negative Predictive Power

These analyses vary according to the presumed base rate of malingering in the population. The interpretation
of either a 25% or 50% base rate of malingering.
In a comparison of 48 probable PTSD cases and 57 probable PTSD malingerers,
a score of 29 or higher meant that the person had a 92% chance of

a score of	29	or higher meant that the person had a	71%	chance of
a score of	29	or higher meant that the person had a	87%	chance of
a score of	29	or higher meant that the person had a	69%	chance of
a score of	29	or lower meant that the person had a	64%	chance of
a score of	29	or lower meant that the person had a	87%	chance of
a score of	29	or lower meant that the person had a	63%	chance of
a score of	29	or lower meant that the person had a	84%	chance of

(Source: Greiffenstein et al., The Clin Neuropsychol 2004;18:573-590)

*Notes: "Below range" means that this person scored lower than did anyone in the study sample. A 0% proba

"Above range" means that this person scored higher than did anyone in the study sample. A 100% probability

95 .
87 .

29 .

5)

- ▲ Females
- ■ Males
- — This Person

30 31 32 33 34 35 36 37 38 39 40 41 42 43
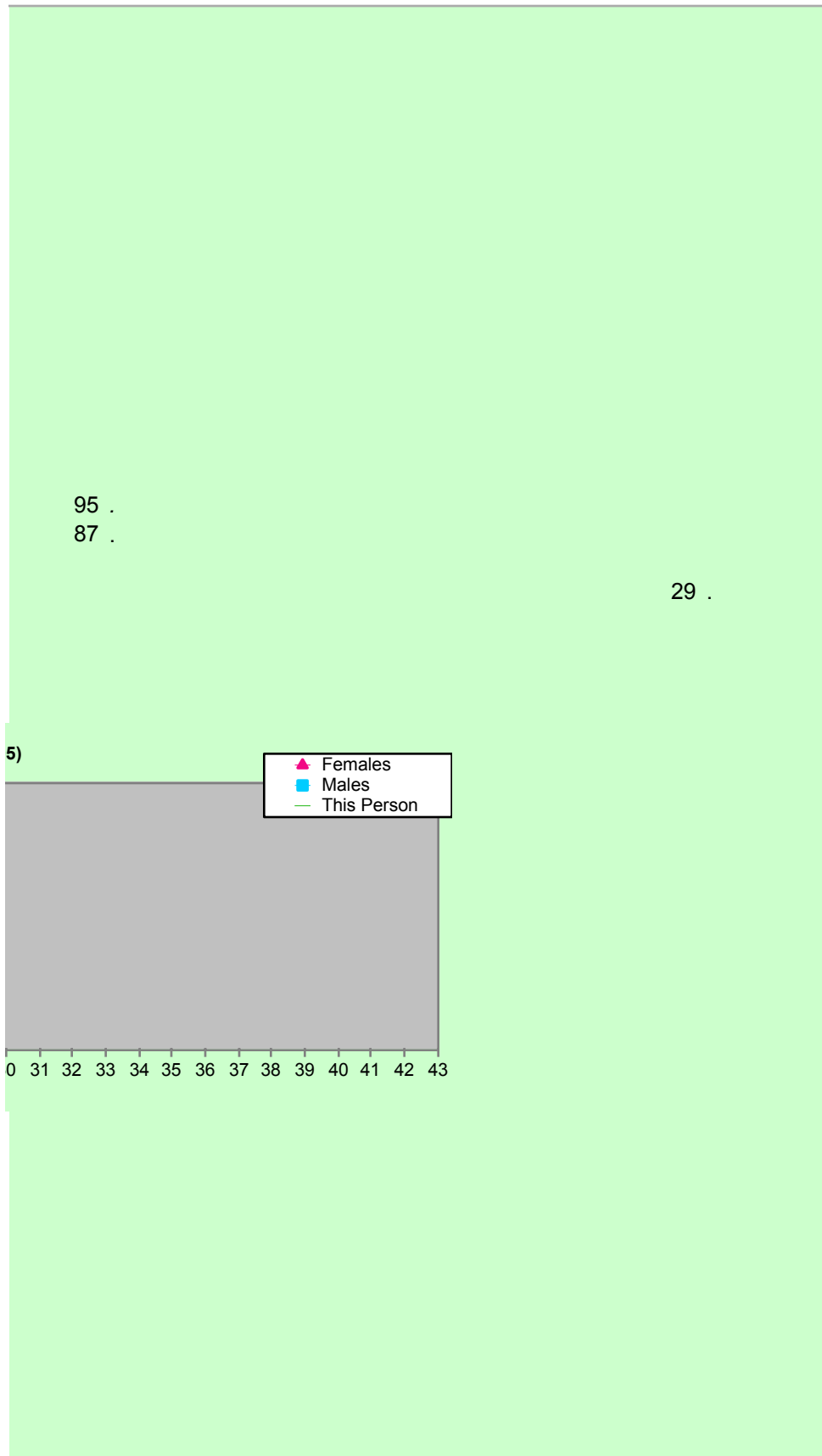
SD from the mean of male custody litigants (no alleged child abuse).
SD from the mean of male custody litigants (alleged physical abuse).
SD from the mean of male custody litigants (alleged sexual abuse).
SD from the mean of male personal injury litigants.

SD from the mean of 33 females with probable PTSD.
SD from the mean of 31 females who appear to malinger PTSD.

, and 100.0% of TBI patients scored below 29 .

, and 96.6% of TBI patients scored below 29 .

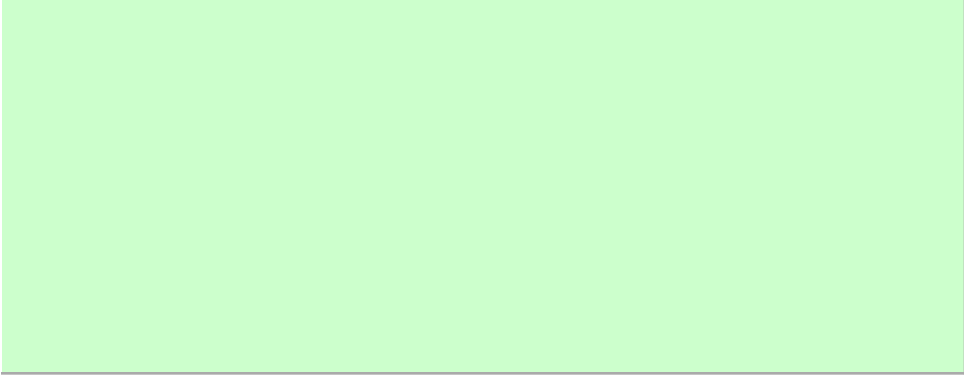| Ross et al.		
Score	Sensitivity	Specificity
0	1	0
1	1	0
2	1	0
3	1	0
4	1	0
5	1	0
6	1	0
7	1	0
8	1	0.034
9	1	0.051
10	1	0.102
11	1	0.254
12	1	0.322
13	1	0.356
14	1	0.475
15	1	0.559
16	1	0.593
17	1	0.61
18	1	0.746
19	0.983	0.797
20	0.949	0.547
21	0.898	0.898
22	0.881	0.915
23	0.881	0.9449
24	0.847	0.949
25	0.814	0.949
26	0.712	0.983
27	0.661	1
28	0.593	1
29	0.508	1
30	0.424	1
31	0.407	1

Greiffenstein et al.

PPP Females

Base rate	0	1	2	3	4	5	6
0.5	Below range	Below range	Below range	Below range	Below range	Below range	Below range
0.25	Below range	Below range	Below range	Below range	Below range	Below range	Below range

PPP Males

Base rate	0	1	2	3	4	5	6
0.5	Below range	Below range	Below range	Below range	Below range	Below range	Below range
0.25	Below range	Below range	Below range	Below range	Below range	Below range	Below range

NPP Females

Base rate	0	1	2	3	4	5	6
0.5	Below range	Below range	Below range	Below range	Below range	Below range	Below range
0.25	Below range	Below range	Below range	Below range	Below range	Below range	Below range

NPP Males

Base rate	0	1	2	3	4	5	6
0.5	Below range	Below range	Below range	Below range	Below range	Below range	Below range
0.25	Below range	Below range	Below range	Below range	Below range	Below range	Below range

Greene: Frequencies in the MMPI2 Normative Sample

	Males	Females	Cum_male	Cum_fem	Pct_male	Pct_fem	Inv_pct_ma
0	0	0	0	0	0.00%	0.00%	100.00%
1	0	0	0	0	0.00%	0.00%	100.00%
2	0	0	0	0	0.00%	0.00%	100.00%
3	8	3	8	3	0.70%	0.21%	99.30%
4	8	4	16	7	1.41%	0.48%	98.59%
5	24	13	40	20	3.51%	1.37%	96.49%
6	44	20	84	40	7.38%	2.74%	92.62%
7	67	26	151	66	13.27%	4.51%	86.73%
8	78	55	229	121	20.12%	8.28%	79.88%
9	103	75	332	196	29.17%	13.41%	70.83%
10	119	107	451	303	39.63%	20.73%	60.37%
11	120	132	571	435	50.18%	29.75%	49.82%
12	135	147	706	582	62.04%	39.81%	37.96%

Score	Sensitivity	Specificity
32	0.322	1
33	0.203	1
34	0.169	1
35	0.153	1
36	0.102	1
37	0.068	1
38	0.034	1
39	0.064	1
40	0	1
41	0	1
42	0	1
43	0	1

Larrabee et al.

Score	Sensitivity	Specificity
0	1	0
1	1	0
2	1	0
3	1	0
4	1	0
5	1	0.034
6	1	0.034
7	1	0.034
8	1	0.138
9	1	0.138
10	1	0.172
11	1	0.207
12	1	0.207
13	1	0.276
14	1	0.31
15	1	0.448
16	1	0.517
17	0.962	0.552
18	0.923	0.552

13	102	157	808	739	71.00%	50.55%	29.00%
14	96	159	904	898	79.44%	61.42%	20.56%
15	75	121	979	1019	86.03%	69.70%	13.97%
16	48	110	1027	1129	90.25%	77.22%	9.75%
17	29	98	1056	1227	92.79%	83.93%	7.21%
18	26	64	1082	1291	95.08%	88.30%	4.92%
19	17	40	1099	1331	96.57%	91.04%	3.43%
20	12	40	1111	1371	97.63%	93.78%	2.37%
21	9	26	1120	1397	98.42%	95.55%	1.58%
22	6	24	1126	1421	98.95%	97.20%	1.05%
23	6	10	1132	1431	99.47%	97.88%	0.53%
24	3	10	1135	1441	99.74%	98.56%	0.26%
25	1	10	1136	1451	99.82%	99.25%	0.18%
26	1	2	1137	1453	99.91%	99.38%	0.09%
27	1	1	1138	1454	100.00%	99.45%	0.00%
28		2	1138	1456	100.00%	99.59%	0.00%
29		3	1138	1459	100.00%	99.79%	0.00%
30		0	1138	1459	100.00%	99.79%	0.00%
31		1	1138	1460	100.00%	99.86%	0.00%
32		2	1138	1462	100.00%	100.00%	0.00%
33							0.00%
34							0.00%
35							0.00%
36							0.00%
37							0.00%
38							0.00%
39							0.00%
40							0.00%
41							0.00%
42							0.00%
43							0.00%

This Person

29	80

19	0.923	0.69								
20	0.923	0.793								
21	0.808	0.862								
22	0.808	0.862								
23	0.692	0.862								
24	0.615	0.862								
25	0.615	0.931								
26	0.538	0.966								
27	0.5	0.966								
28	0.5	0.966								
29	0.423	0.966								
30	0.385	0.966								
31	0.308	1								
32	0.192	1								
33	0.115	1								
34	0.115	1								
35	0.038	1								
36	0	1								
37	0	1								
38	0	1								
39	0	1								
40	0	1								
41	0	1								
42	0	1								
43	0	1								

	7	8	9	10	11	12	13	14	15	16	17	18
	7	8	9	10	11	12	13	14	15	16	17	18
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	7	8	9	10	11	12	13	14	15	16	17	18
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	7	8	9	10	11	12	13	14	15	16	17	18
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Inv_pct_fem
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70.25%
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19	20	21	22	23	24	25	26	27	28	29	30
Below rang	Below rang	Below rang	Below rang	Below rang	Below rang	Below rang	0.87	0.87	0.87	0.92	0.95
Below rang	Below rang	Below rang	Below rang	Below rang	Below rang	Below rang	0.69	0.69	0.68	0.71	0.86
19	20	21	22	23	24	25	26	27	28	29	30
Below rang	Below rang	0.67	0.67	0.67	0.67	0.67	0.67	0.65	0.78	0.87	1
Below rang	Below rang	0.42	0.42	0.42	0.42	0.42	0.42	0.38	0.54	0.69	1
19	20	21	22	23	24	25	26	27	28	29	30
Below rang	Below rang	Below rang	Below rang	Below rang	Below rang	Below rang	0.82	0.78	0.72	0.64	0.61
Below rang	Below rang	Below rang	Below rang	Below rang	Below rang	Below rang	0.93	0.89	0.89	0.87	0.82
19	20	21	22	23	24	25	26	27	28	29	30
Below rang	Below rang	0.83	0.83	0.83	0.83	0.83	0.65	0.66	0.63	0.63	0.59
Below rang	Below rang	0.94	0.94	0.94	0.94	0.94	0.85	0.84	0.84	0.84	0.81

31	32	33	34	35	36	37	38	39	40	41	42
1	1	1	1	1	1	1	1	1	1	Above rang	Above rang
1	1	1	1	1	1	1	1	1	1	Above rang	Above rang
31	32	33	34	35	36	37	38	39	40	41	42
Above rang	Above rang	Above rang	Above rang	Above rang	Above rang	Above rang	Above rang	Above rang	Above rang	Above rang	Above rang
Above rang	Above rang	Above rang	Above rang	Above rang	Above rang	Above rang	Above rang	Above rang	Above rang	Above rang	Above rang
31	32	33	34	35	36	37	38	39	40	41	42
0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	Above rang	Above rang
0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	Above rang	Above rang
31	32	33	34	35	36	37	38	39	40	41	42
Above rang	Above rang	Above rang	Above rang	Above rang	Above rang	Above rang	Above rang	Above rang	Above rang	Above rang	Above rang
Above rang	Above rang	Above rang	Above rang	Above rang	Above rang	Above rang	Above rang	Above rang	Above rang	Above rang	Above rang

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