

Online Table. Variables at Time 1 and Time 2 with Means and Standard Deviations or Frequencies by Format

Concept	Item	Response*	<u>AN</u>	<u>Plain</u>	<u>Graded</u>
			Mean ^{Time 1} SD	Mean ^{Time 1} SD	Mean ^{Time 1} SD
			Mean ^{Time 2} SD	Mean ^{Time 2} SD	Mean ^{Time 2} SD
			n=88	n=89	n=84
Safety belief	How safe is your untreated water as your main water source for drinking?	Very safe, Very unsafe	3.59 1.151	4.19 1.107	3.98 1.232
			3.69 1.087	4.01 1.028	3.95 0.993
Serious problem	How serious is the problem indicated by your test result?	Very minor, Very serious	3.56 1.173	3.87 1.025	3.81 1.103
			3.59 1.131	3.92 1.068	3.66 1.050
Severity	How serious would the health effects be from by long-term exposure to your level of manganese?	Very minor health effects, Very serious health effects	3.98 1.313	3.93 1.286	3.90 1.248
			3.53 1.295	3.97 1.182	3.74 1.142
Emotion	How concerned do you feel about your test result?	Very unconcerned – Very concerned	3.91 1.131	4.34 0.953	4.12 1.134
			3.91 1.013	4.17 0.895	4.05 1.040
Emotion	How distressed do you feel about your test results?	Very calm – Very distressed	3.53 1.124	3.81 0.987	3.61 1.252
			3.43 0.980	3.76 0.966	3.65 0.963

Online Table (continued)

Concept	Item	Response	<u>AN</u>	<u>Plain</u>	<u>Graded</u>
			Mean ^{Time 1} SD	Mean ^{Time 1} SD	Mean ^{Time 1} SD
			Mean ^{Time 2} SD	Mean ^{Time 2} SD	Mean ^{Time 2} SD
			n=88	n=89	n=84
Risk belief	How skeptical do you feel about the potential for health risks at this manganese level?	Very convinced, Very skeptical	3.64 1.008	3.65 1.056	3.49 0.988
			3.67 0.931	3.62 1.006	3.57 0.985
Risk mitigation Intentions	Now that you have your well test result, how much of your untreated well water do plan to drink?	Drink as usual, Stop drinking (5 categories)	3.00 1.304	3.54 1.197	3.24 1.286
			2.84 1.240	3.31 1.221	3.06 1.274

Online Table (continued)

Concept	Item	Response	<u>AN</u>	<u>Plain</u>	<u>Graded</u>
			Mean <i>SD</i> n=88	Mean <i>SD</i> n=89	Mean <i>SD</i> n=84
<u>Time 1</u> Personal safety threshold	What is the highest manganese level you personally consider safe for your drinking water?	0, 1-4, 5-9, 10, 11-19, 20-29, 30-39, 40-49, 50, 51-59, 60-100, over 100	5.25 1.808	5.07 1.789	5.20 1.987
<u>Time 1</u> Likelihood at 10-15 ppb	How likely is it that 10 – 15 ppb manganese would cause health problems over a lifetime of use?	Very unlikely, Very likely	3.38 1.244	3.53 1.289	3.52 1.303
<u>Time 1</u> Likelihood at 35 - 50 ppb	How likely is it that 35 – 50 ppb manganese would cause health problems over a lifetime of use?	Very unlikely, Very likely	4.66 1.163	4.76 1.066	4.62 1.251
<u>Time 2</u> Likelihood your amount	How likely is it that your level of manganese would cause health problems over a lifetime of use?	Very unlikely, Very likely	3.82 1.237	4.16 1.137	3.95 1.118

Online Table (continued)

Concept	Item	Response	<u>AN</u>	<u>Plain</u>	<u>Graded</u>	
			Percent (Frequency) n=88	Percent (Frequency) n=89	Percent (Frequency) n=84	
<u>Time 1</u>	Optimistic Threshold Bias (OTB) <i>Dichotomous version of personal safety threshold</i>	What is the highest manganese level you personally consider safe for your drinking water?	Under, over (% provided for under indicating bias – balance are under)	60.2% (53)	61.8% (55)	64.3% (54)
			^a 5.6% (5)	^a 4.5% (4)	^a 6.0% (5)	
<u>Time 1</u>	Dose/risk belief	How would you compare the health risk of manganese at 40 ppb to the health risk at 20 ppb?	40 has ^{a,b,c,d} health risk as 20:	^b 37.5% (33)	^b 51.7% (46)	^b 39.3% (33)
			^a about same, ^b a little more, ^c about twice, ^d more than twice	^c 45.5% (40)	^c 36.0% (32)	^c 42.9% (36)
				^d 11.4% (10)	^d 7.8% (7)	^d 11.8% (10)
<u>Time 2</u>	Under/over standard recall	As you recall, was your manganese test result over or under the manganese drinking water standard?	Under, Over (% provided for under indicating incorrect recall – balance are under)	9.1% (8)	16.9% (15)	16.7% (14)
				^a 3.4% (3)	^a 4.5% (4)	^a 4.8% (4)
<u>Time 2</u>	Dose recall	Please circle your best guess of the range that your test result would be in?	^a Under 10, ^b 10-50, ^c Over 50 (under 10 indicates bias)	^b 94.3% (83)	^b 92.1% (82)	^b 92.9% (78)
				^c 2.3% (2)	^c 3.4% (3)	^c 2.3% (2)

*6 categories for response unless otherwise noted