
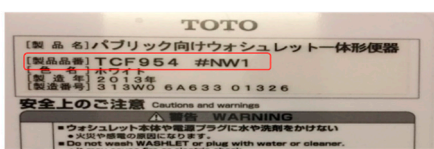



**Table S1.** Toilet Use Survey at Home and Away from Home.

A. Attributes (Please tell us about yourself.)			
No	Question	Alternatives	
A-1	Please indicate your gender.	1	Men
		2	Women
A-2	Please indicate your age.	1	Teenagers
		2	20s
		3	30s
		4	40s
		5	50s
		6	60s
A-3	Please indicate your place of residence. If you chose "Other," please indicate the prefecture in which you live.	1	Fukuoka prefecture
		2	Other( )
A-4	How many family members are living with you in your current residence? Please select one that applies to you.	1	0
		2	1
		3	More than 2 people
A-5	Do you have a hot-water toilet seat installed in your home? Please select one that applies to you.	1	Installed
		2	No installation
A-6	<p>Please write down the part number of the toilet seat (there is often a sticker on the back of the seat).</p> <p>Example: TCF954 #NW1 (in the case of the photo below, made by TOTO)</p> <div style="display: flex; justify-content: space-around;">   </div>		<p>Part Number ( )</p> <p>Manufacturer name ( )</p>

B. How do you use the toilet in your home? Please tell us about the following.			
No	Question	Alternatives	
B-1	Do you use the electric bidet at home? Please select one that applies to you."	1	Use
		2	Do not use
B-2	If you selected "2. Do not use" in B-1, please answer. Please select one reason why you do not use the electric bidet.	1	Worried about hygiene
		2	Worried about the startup noise
		3	Not enough time
		4	I don't need it
		5	Paper is wasted
		6	Other ( )
B-3	Ask about the problems you have with the toilet in your home. Please select up to three things that you are dissatisfied with when using the toilet at home (excluding cleaning).	Please answer up to the top three.	
		1	Remnants of other people's odor before using the restroom and remnants of your own odor after using the restroom.
		2	Odor from other toilets (e.g., odor smeared on walls or floor).
		3	Stains on areas where skin or clothes may come in contact with (toilet seat, etc.).
		4	Stains in areas that are easily visible.
		5	Stains in areas that are difficult to clean on a daily basis (holes, crevices, backside, etc.).
			Stains on the nozzle.
		6	Stains around toilet bowl (floor, wall, etc.).
		7	Dirt adhering to the toilet bowl may not flow down.
		8	Dirt on the toilet bowl does not flow down or sometimes clogs up.
		9	Water or waste water splashes during urination or defecation.
		10	Loud noise when using the toilet (flushing sound, etc.).
		11	The temperature of the toilet seat is too low or too high.
		12	It is difficult to understand how to operate the remote control.

		13	No particular complaints.
		14	Other( )
		15	
B-4	When you use the toilet at home, do you ever worry about cleanliness when you sit on the toilet seat? Please select one that applies to you.	1	Just sit there
		2	Wipe with paper
		3	Wipe with a sterilizing sheet
		4	Put down the paper
		5	Posture without touching
		6	Other( )
B-5	How often do you clean the toilet in your home? (Excluding the frequency of cleaning by family members other than you) Please select one that applies to you.	1	Everyday
		2	About 4 to 6 times a week
		3	2 to 3 times a week
		4	About once a week
		5	About 2 to 3 times a month
		6	About once a month
		7	About 3 to 5 times in 6 months
		8	Less than that
		9	I don't clean it by myself
B-6	Please answer only if you answered that you sometimes clean the toilet at home by yourself in B-3 (if you selected 1, 2, 3, 4, 5, 6, 7 or 8). If you don't want to clean by yourself (if you selected 9), please go to B-8. Ask about the problems you have with the toilet in your home. Please select up to three things that you are dissatisfied with "when cleaning" the toilet in your home.		Please answer up to the top three.
		1	Some stains are difficult or impossible to remove
		2	There are parts that are difficult to clean (time consuming)
		3	There are parts that cannot be cleaned in the first place
		4	I don't know how to clean some parts
		5	Frequent cleaning is required (toilet gets dirty quickly)
		6	I don't have or don't want to have space to store my cleaning tools
		7	I don't have the right cleaning tools
		8	Scratches or discoloration from cleaning

		9	Replenishing consumables (disinfectant sheets, detergent, etc.) is troublesome
		10	I don't want to use consumables (disinfectant sheets, detergent, etc.)
		11	I don't want to see how dirty it is when I clean it
		12	I don't want to smell it when cleaning
		13	Work space is too small
		14	No particular complaints.
		15	Other( )
B-7	<p>To what extent do you regularly clean the toilet in your home?</p> <p>Please select one that applies to you.</p> <p>(Please choose one that applies to you, excluding elaborate cleaning.)</p>	1	Areas that are easily visible and easy to wash (toilet bowl surface, front and back of toilet seat, etc.)
		2	Areas that are difficult to see and require one action such as removal, withdrawal, etc. (nozzles, etc.)
		3	Areas requiring special cleaning tools (e.g. gaps in toilet seat)
		4	Areas requiring disassembly (e.g., inside of toilet bowl tank)
		5	Do not know

C. How often do you use the bathroom when you go out?		
No	Question	Alternatives
C-1	When using the toilet on the go, do you ever worry about cleanliness when you sit on the toilet seat? Please select one that applies to you.	1 Just sit there 2 Wipe with paper 3 Wipe with a sterilizing sheet 4 Put down the paper 5 Posture without touching 6 Other( )
C-2	Do you want to use the electric bidet when you are away from home? Please select one that applies to you.	1 Use 2 Do not use
C-3	Questions for those who selected "2 Don't use" in C-3. Please tell us why you do not use the electric bidet when you are away from home.	1 Not in regular use 2 Worried about hygiene 3 Worried about the startup noise 4 Not enough time 5 I don't need it 6 Paper is wasted 7 Other ( )

D. How often do you use the electric bidet?		
No	Question	Alternatives
D-1	Please select all that apply to how often you use the electric bidet when using the toilet at home.	<div>1 Use every time you defecate or urinate</div> <div>2 Use only when defecating, every time</div> <div>3 Use only when urinating, every time</div> <div>4 Use during urination ( ) % of the time</div> <div>5 (Female only) Use every time when menstruating</div> <div>6 (Female only) Use during menstruation ( ) % of the time</div> <div>7 Do not use</div> <div>8 Other ( )</div> <div>9</div>
D-2	Please select all that apply to the frequency of using the electric bidet when using the toilet outside the home. (If the toilet has the electric bidet , please indicate how often you use it.)	<div>1 Use every time you defecate or urinate</div> <div>2 Use only when defecating, every time</div> <div>3 Use only when urinating, every time</div> <div>4 Use during urination ( ) % of the time</div> <div>5 (Female only) Use every time when menstruating</div> <div>6 (Female only) Use during menstruation ( ) % of the time</div> <div>7 Do not use</div> <div>8 Other ( )</div> <div>9</div>