



Maximum Performance (MaP) Testing of Popular Toilet Models

A Cooperative Canadian and American Project



Prepared by

William Gauley, P.Eng.
Veritec Consulting Inc.
1495 Bonhill Rd., #12
Mississauga, ON L5T 1M2
Canada

Tel (905) 696-9391 x102
Fax (905) 696-9395

bill@veritec.ca

John Koeller, P.E.
Koeller and Company
5962 Sandra Drive
Yorba Linda, CA 92886-5337
U.S.A.

Tel (714) 777-2744
Fax (714) 777-2267

koeller@earthlink.net

Important: This report, originally published in 2003 with the test results for the initial group of toilet fixtures, is periodically updated (approximately every three to six months) and made available free-of-charge on the websites of the Canadian Water and Wastewater Association (CWWA), the California Urban Water Conservation Council (CUWCC), and Veritec Consulting Inc. (see web addresses below). Individual agencies, municipalities, green building organizations, publications, and manufacturers are free to link to these sites provided credit is given.

http://www.cwwa.ca/home_e.asp

(MaP report listed in “What’s New” section)

<http://www.cuwcc.org/MapTesting.lasso>

<http://veritec.ca>

(Click on Reports)

TABLE OF CONTENTS

Contributors

Disclaimers

Revised MaP Testing Protocol

1.0	BACKGROUND	1
2.0	MAXIMUM PERFORMANCE (MAP) TEST.....	3
2.1	Critical Aspects of Test.....	3
2.2	Minimum Level of Acceptable Performance - Medical Data.....	3
2.3	Soybean Paste Test Media	3
2.4	Media Source	4
2.5	Test Protocol	4
3.0	CONCLUSIONS	5
4.0	RECOMMENDATIONS	5

APPENDIX A

MaP Toilet Fixture Performance Testing Protocol, Version 2, September 2005

Glossary of Terms for Appendices B and C

APPENDIX B

MaP Results Sorted by Manufacturer

APPENDIX C

MaP Results Sorted by Performance

Contributors

Initiated in 2003 by municipalities and other interested organizations in Canada, the Maximum Performance (MaP) Testing program was a cooperative effort among Canadian and American partners, including:

Canada

- Canadian Water and Wastewater Association (CWWA) – **LEAD AGENCY**
- B.C. Capital Regional District, Victoria, British Columbia
- B.C. Buildings Corporation, Victoria, British Columbia
- Canada Mortgage and Housing Corporation
- Calgary, Alberta
- Edmonton, Alberta
- Greater Vancouver Regional District, British Columbia
- Halifax, Nova Scotia
- Hamilton, Ontario
- Montreal, Quebec
- Ottawa, Ontario
- Region of Durham, Ontario
- Region of Halton, Ontario
- Region of Peel, Ontario
- Region of Waterloo, Ontario
- Toronto, Ontario
- Winnipeg, Manitoba

U.S.A.

- California Urban Water Conservation Council, Sacramento, California
- East Bay Municipal Utility District, Oakland, California
- Los Angeles Department of Water and Power, Los Angeles, California
- Seattle Public Utilities, Seattle, Washington
- Tampa Bay Water, Clearwater, Florida

We gratefully acknowledge the contributions from these participating agencies and municipalities.

Disclaimers

The information in this report is believed to be an accurate description of the units tested and the results obtained. Every effort was made to ensure the accuracy of the findings including, but not limited to, preparation of a detailed test protocol and third-party oversight of testing protocol implementation. Although the test protocol utilizes a media whose physical properties resemble typical human waste, the reader is reminded that there is an enormous variation in human waste from person to person, and from one day to another. Because of this variability, and because only a single unit of each model was tested, these results should not necessarily be considered as fully representative of the typical or average performance of the models tested. The results shown in this report should be viewed only as an indication of expected ‘field’ results for waste removal.

Neither the authors, reviewers, project supporters, sponsoring partners, CWWA, CUWCC, nor their employees make any warranty, guarantee, or representation, expressed or implied, with respect to the accuracy, truth, effectiveness, or usefulness of any information, method, or material in this document, or assume any liability of the use of any information, methods, or material disclosed herein, or for any damages arising from such use. Readers use this report at their own risk.

Neither the authors, reviewers, project supporters, sponsoring partners, CWWA, CUWCC, nor their employees endorse products or manufacturers. Trade or manufacturers’ names appear herein not as an endorsement but solely because they are considered important to the object of the project.

Readers are invited to distribute this report in whole or in part but any changes made to the document must be approved by the authors. Credit to the authors is appreciated.

Readers are reminded that this report represents a ‘snap shot’ of the performance levels achieved by certain toilet fixtures at a particular time and with particular trim inside. Manufacturers sometimes make permanent or temporary changes to trim components or to model designs without changing the model names or model numbers. As such, changes to the models tested in this report may have occurred since the testing was completed.

The toilet models tested as part of this program are in no way intended to represent all of the various makes and models available, nor is this report intended to provide a comprehensive list of all toilets that might be expected to perform either well or marginally in the field.

The results obtained during this testing program are not guarantees of performance.

The reader is reminded that there are criteria *in addition* to solids removal that should be considered when selecting a toilet model, e.g., bowl wash, availability of replacement parts, potential for leakage, noise, physical longevity, etc. MaP testing addresses only a single issue: the ability of a toilet model to completely remove solids in a single flush.

Both consumers and manufacturers are encouraged to provide feedback to the authors of this report, especially regarding issues such as incorrect model numbers, models that are listed but are no longer available, etc.

Revised MaP Testing Protocol

The 6th Edition of the MaP testing results was the first report on tests that used the new MaP testing protocol. This 9th Edition continues that practice.

Readers are encouraged to read and become familiar with all aspects of the testing protocol, but the primary changes incorporated into the protocol with the 6th Edition were as follows:

- Testing for water change-out was eliminated
- Individual 50g test media specimens (soybean paste) are now encased in a thin latex membrane (similar to a sausage) and can be reused several times. Manufacturers may request that the test be conducted using uncased test media.
- Toilet models must successfully clear all test media in a minimum of four of five attempts (vs. two of three attempts used in earlier test protocol).
- Testing is attempted at following mass loadings: 250g, 300g, 350g, 400g, 500g, 600g, 800g, and 1,000g. No testing is completed with mass loadings exceeding 1,000g.

We believe that the new protocol and test media make it easier and less expensive for manufacturers, laboratories and other organizations to complete MaP testing at their own facilities.

The MaP testing protocol, in its entirety, is provided in **Appendix A**.

1.0 BACKGROUND

Although virtually all toilet models sold in Canada and the U.S. meet both the flush volume and performance requirements of the Canadian Standards Association (CSA) and the American National Standards Institute/American Society of Mechanical Engineers (ANSI/ASME), there remains some question as to whether models that meet the minimum certification requirements also meet the expectations of the consumer. What's more, since certification testing offers only a pass/fail grading, there is currently no easy way to distinguish between superior and marginal toilet models available in the market.

Most toilet fixtures destined for residential and light commercial applications exceed customer performance expectations while flushing with no more than 6 litres (1.6 gallons). However, recent research in Canada and the U.S. concludes that there are also some certified and commercially available models that do not meet customer expectations.

There are two key concerns:

- 1) Fixtures that fail to meet the 6-litre maximum flush requirements of the CSA or the 1.6-gallon requirements of the ANSI/ASME¹ result in toilets that flush with either too much;
- 2) Fixtures that do not flush effectively usually result in customer complaints and the need for double flushing.

Until recently, however, there was no convenient way for the customer to readily distinguish between good and marginal performers. In addition, this lack of information on toilet performance levels has served to create a negative perception regarding *all* 6-litre (1.6-gallon) fixtures in general. Instead, we believe that these negative perceptions should be focused *only* on those toilet fixtures clearly identified (through testing) as the “bad apples”.

Although other toilet performance studies have been completed, none of these has been performed using test media as realistic as that used in this test, nor has a quantifiable performance benchmark – based on the results of relevant medical data – been established.

We developed the Maximum Performance (MaP) testing to identify how well popular toilets models perform using a realistic test media, and to grade each toilet model based on this performance. A soybean paste having similar physical properties (density, moisture content) to human waste was used in combination with toilet paper as the test media. In addition to using a realistic test media, all toilet samples are adjusted, where possible, to their rated flush volume (typically 6 litres / 1.6 gallons) prior to testing to ensure a level playing field.

The original testing protocol required the soybean paste to be extruded through a 7/8-inch (22-mm) die and cut into 50-gram specimens (each specimen approximately 100 mm or 4 inches in length). Toilet models were subjected to progressively larger loadings (in 50-gram increments) until the unit failed to completely clear the bowl in two of three attempts, or to fully restore a minimum 50mm (2-in.) trap seal. Beginning with the 6th Edition of this report, the soybean paste media has been encased as described on the previous page.

¹ Certification testing is intended to ensure that each model meets a specific set of minimum requirements for health and safety, product integrity, and performance. There is no differentiation in certification between a toilet model that just meets the minimum requirements and one that surpasses those requirements.

This **9th Edition** of the MaP testing report supersedes all earlier editions. Another 47 toilet fixture models are included in this edition (some of which replaced models in the 8th Edition), bringing the total to approximately 332 different models measured for their flush performance. (Some previously tested models have been re-tested or discontinued by their manufacturer and deleted from the report.) Beginning with the **4th Edition** only a single sample of each toilet model was required to be submitted for testing (previous requirement was two samples). This change was made because of the relative consistency in model performance noted in earlier MaP testing and to better align MaP testing requirements with those of other testing agencies.

The original MaP report (2003) contained information on replacement flapper interchangeability. Information on checking and replacing toilet flappers can now be found on the web at:

www.toiletflapper.org.

Whereas MaP testing is strictly performance-related, it is also considered important that those toilet models subsidized by water utilities (e.g., through rebate programs) sustain their water savings over the life of the fixture. The L.A. Supplemental Purchase Specification (SPS) was developed for this purpose and may currently be found at:

http://www.cuwcc.org/toilet_fixtures/LADWP_SPS_ULFTReqs_05-11-16.pdf

The original minimum performance benchmark adopted by MaP was 250 grams (250g) of waste. That is, a toilet fixture should completely evacuate at least 250g of waste in a single flush action. This value is based on the results of a British medical study (*Variability of Colonic Function in Healthy Subjects*) that identified 250g as the average maximum fecal size of the male participants in the study. Thus, any toilet that meets or exceeds the 250g performance threshold should meet customer expectations for flushing.

Overall, the MaP testing protocol has been very well-received by consumers, water providers, architects, specifiers, retailers, and manufacturers alike. We expect that many agencies and municipalities will consider the results of MaP testing when evaluating which toilet models to promote, subsidize, or rebate.

It is important to note that the U.S. Environmental Protection Agency (EPA) has adopted 350g as the minimum performance threshold for high-efficiency toilets (HETs) promoted within its new WaterSense program. Furthermore, most water utilities currently adopting toilet replacement rebate and installation programs (with HETs) are also establishing their minimum performance threshold at 350g (some are as high as 500g). Therefore, for the sake of consistency, it is anticipated that the requirements for UNAR (Uniform North American Requirements) for toilet fixtures, which is virtually identical to the EPA's WaterSense program² for high-efficiency models, will also adopt 350g as the minimum flushing performance threshold.

Neither the EPA's WaterSense program nor UNAR will post performance scores for included toilet models; models will simply be rated **Pass** or **Fail** depending upon whether or not they were able to meet the 350g minimum performance threshold and other criteria. Independent of WaterSense and UNAR, however, we will continue to perform and report on MaP testing results via reports such as this.

² Except that the WaterSense program confines its labeling to HETs ONLY. WaterSense and its toilet specification may be accessed at: <http://www.epa.gov/watersense/>

2.0 MAXIMUM PERFORMANCE (MaP) TEST

2.1 Critical Aspects of Test

MaP testing includes four significant advancements from earlier studies by others and from the national standards promulgated by CSA and ASME:

- Non-realistic test media (sponges, plastic balls and beads, kraft paper, etc.) replaced with combination of encased soybean paste and wads of toilet paper. Most agree this media more accurately replicates “real-world” demands upon a toilet fixture.
- All models are adjusted to rated volume, generally 6 litres (1.6 gallons), prior to testing³.
- As noted earlier, a minimum level of acceptable performance was identified.

2.2 Minimum Level of Acceptable Performance - Medical Data

A British medical report⁴ outlines the results of fecal tests completed on 10 male and 10 female subjects eating normal diets. The study identified the *average maximum*⁵ fecal size of the male participants to be approximately 250g and the 95th percentile size to be 305g⁶. The *average maximum* for women was slightly less at 237g, with the 95th percentile at 275g. The *average* fecal size of all participants was 130g⁷. (NOTE: The selection of the 350g threshold by the U.S. EPA for its WaterSense Program was based upon achieving a 99.5 percentile threshold.)

Based on this medical study, it appears that for sanitary reasons, as well as for customer satisfaction, toilets should flush a *minimum* of approximately 250g of solids. For the purposes of this study, 250g was set as the initial performance benchmark. Both the MaP threshold of 250g and the U.S. EPA threshold of 350g are shown in **Appendix C**.

2.3 Soybean Paste Test Media

Soybean paste was selected as a test media because its physical characteristics (density, moisture content) are reasonably similar to those of human waste. The test media has the following properties: moisture content 51.5 percent, pH 4.78, and density 1.16g/mL. Previously, the media was extruded through a 7/8-inch (22mm) diameter die, each specimen being approximately four inches (100mm) long and weighing 50g (±5g). Beginning with the 6th Edition, the new test protocol encases the specimen in a thin latex membrane, enabling re-use of the specimen for multiple test runs.

The following photos illustrate some of the aspects involved in MaP testing.

³ High-efficiency toilets (HETs) are adjusted to their rated volume where such adjustments are possible. In most cases, however, adjustability is not available. The flush volume of HETs may be as high as 4.8 litres (1.28 gallons) and even as low as 3.4 litres (0.9 gallons).

⁴ J.B. Wyman, K.W. Heaton, A.P. Manning, and A.C.B. Wicks of the University Department of Medicine, Bristol Royal Infirmary, *Variability of colonic function in healthy subjects*, 1978.

⁵ The average of the largest individual “samples” collected from each participant during the program.

⁶ It would be expected that only 5% of male samples would be larger than 305g.

⁷ A toilet only capable of flushing the *average* loading (130g) would be expected to plug/clog or fail about 50% of the time, therefore, the benchmark of 250g (average male maximum) was selected for this project.



Test rig (top left), bulk & extruded media (top right), packaged media (bottom left), dropping media (bottom right).

2.4 Media Source

Although several media with varying physical characteristics were evaluated during initial project development, the specific media used in the MaP testing is obtained in 20-kg (44-lb) containers from a single Canadian importer (the product originates in Japan). Readers wishing further information regarding the paste should contact Veritec directly.

2.5 Test Protocol

The MaP test protocol (Version 2.1 - 2005) is included in **Appendix A**. All toilet fixtures are assembled, placed on the test stand, and connected to a municipal water supply (50 psi static pressure). Tank water levels are set to the waterline and flush volumes recorded. Adjustments are made, if necessary and where possible, to ensure all samples flush at their rated volume, generally 6 litres (1.6 gallons) for most fixtures, and less for HETs⁸.

The ability of a toilet to completely remove 100 percent of waste in a single flush without plugging or clogging is considered by most consumers and users to be one of the most important test criteria. Testing is conducted by loading the fixture in 50g and 100g increments of test media until it fails to pass 100 percent of the media in four of five attempts. Four loosely crumpled balls of toilet paper (six sheets each) are included in each test run. The toilet paper

⁸ High-Efficiency Toilets – HETs flush at 4.8 litres (1.28 gallons) or less per flush.

used in testing has the following specifications: single ply toilet paper conforming to ASME A112.19.14–2006, section 3.2.4.1.

Test results sorted by manufacturer are presented in **Appendix B**. The same results are sorted by performance level and are presented in **Appendix C**.

Note: Although individual MaP testing reports identify the maximum flush volume when tested as per the Los Angeles Department of Water and Power (DWP) Supplementary Purchase Specification (LADWP SPS), this should not be confused with Certification to the SPS. Manufacturers are required to submit their product to an IAPMO-recognized laboratory for Certification to the SPS. **Appendix B** and **Appendix C** identify those MaP-tested products that we have tested and/or otherwise determined as meeting the SPS requirements. Not all of the gravity-fed fixtures have actually been Certified by IAPMO to that specification or, in the case of pressure-assist fixtures, been designated by DWP as being in compliance.

3.0 CONCLUSIONS

The test program revealed a significant range in the maximum performance levels of the toilet fixtures tested, including some that failed to meet the 250g threshold – yet all of these toilets are certified as meeting the minimum standards set forth by CSA and ANSI/ASME.

Appendix B and **Appendix C** separately colour-code (color-code) models clearing less than 250g of media, models clearing from 250g and 500g, and models clearing greater than 500g. Pressure-assisted models, both 6- and 4-L (1.6- and 1.1-G), and HET models are also coded for ease of identification.

4.0 RECOMMENDATIONS

Based upon the research conducted and the test results obtained through this 9th Edition, the authors recommend that:

1. All toilet models be required to remove at least 250g of solids as part of qualification or certification for code-compliance.
2. Municipalities and other rebating agencies should consider giving priority to toilet models that meet both the LADWP SPS and the MaP threshold. SPS-qualified toilets are more likely to sustain water savings over their physical lifetime. MaP tested toilets meeting the recommended threshold are more likely to result in a satisfied customer. Together, these requirements comprise the new Uniform North American Requirements (UNAR) for toilet fixtures. We recommend that all water providers consider using the UNAR specification for future toilet replacement programs. (UNAR is already being used extensively in various parts of North America by water providers as the specification-of-choice.) Further information on the UNAR specification may be obtained from the authors.

Appendix A

Maximum Performance (MaP) Testing

Toilet Fixture Performance Testing Protocol

Version 2.1 - September 2005⁹

1.0 Scope of MaP Testing

- 1.1 Toilet model maximum performance (MaP) level is identified as the maximum media loading (in discreet increments expressed in grams) at which toilet model successfully clears all media from fixture in at least four of five attempts.
- 1.2 Tests where toilet sample clogs, plugs, or fails to restore a minimum of a 2-in. (50mm) trap seal following each flushing test will be deemed a failed test.
- 1.3 MaP test media is comprised of the following:
 - 1.3.1 One or more $50 \pm 4\text{g}$ test specimen (“test specimen”) consisting of soybean paste contained in latex casing, tied at each end forming a ‘sausage’ approximately $100 \pm 13\text{mm}$ in length and $25 \pm 6\text{mm}$ in diameter¹⁰, and
 - 1.3.2 Four loosely crumpled balls of toilet paper (“paper”).

2.0 Testing Protocol

2.1 Fixture Model Selection

- 2.1.1 A single randomly selected sample of each toilet model (“sample”) is required for testing.
- 2.1.2 Toilet models that are not *certified* as provided shall be identified as a “**Prototype Model**”.

2.2 Set-Up

- 2.2.1 Samples shall be assembled according to manufacturer’s written instructions as contained within the product packaging, and placed on test rig, ensuring tank and bowl are level.
- 2.2.2 Tank water level shall be adjusted to the level specified by manufacturer in the manufacturer’s instructions (e.g., set to waterline).
- 2.2.3 Static water supply pressure shall be set to 50 ± 3 PSIG.
- 2.2.4 Inlet water temperature shall be 65 to 80°F (18 to 27°C).
- 2.2.5 Flush sample a minimum of three times prior to commencement of testing.
- 2.2.6 Re-adjust tank water level to proper level if required.

2.3 Flush Volume Measurement

- 2.3.1 Measure and record flush volume of sample in accordance with ASME A112.19.2-2003, paragraphs 8.4.1 and 8.4.2.
- 2.3.2 Samples with measured flush volumes in excess of 0.5 litres (0.13 gallons) greater than their rated flush volume shall be deemed to fail MaP testing requirements due to excessive flush volume.

⁹ Version 2 updated in November 2006 to reflect change to Section 3.6 and its reference to the latest version ASME A112.19.14

¹⁰ Approximately 4 ± 0.5 inches in length and 1 ± 0.25 inches in diameter

- 2.3.3 Samples with measured flush volumes less than 0.5 litres (0.13 gallons) greater than their rated flush volume shall be adjusted, if possible, to their rated flush volume prior to performance testing.
- 2.3.4 Samples with measured flush volumes less than their rated flush volume shall be tested at their measured volume and this volume shall be recorded on test report.

2.4 Waste Extraction Test

- 2.4.1 Test specimens shall be formed by hand such that they are roughly cylindrical in shape and uniform in diameter
- 2.4.2 A test specimen drop guide shall be placed across the top of the bowl, with the centerline of a 2 inch (50 mm) diameter opening 6 inches (15 cm) in front of the center of the seat post holes, equidistance from each hole. Drop guide may be made of plastic or other rigid material, to be no more than 0.5 inch (12 mm) thick, and be of sufficient length to span top of toilet bowl.
- 2.4.3 Test specimens shall be freely dropped in a vertical orientation through opening in drop guide into bowl. Additional test specimens shall be added, as required, to achieve desired mass loading. Record total mass loading.
- 2.4.4 Remove drop guide and freely and randomly drop four balls of crumpled toilet paper over centre of bowl sump.
- 2.4.5 Wait 10 ± 1 seconds.
- 2.4.6 Flush sample. Collect discharged media in strainer or other suitable container positioned below toilet fixture.
- 2.4.7 Record test as **Pass** or **Fail** (test is a **Fail** if any waste remains in the bowl or trap, or if minimum 50mm (2-in.) trap seal has not been restored).
- 2.4.8 Remove (rinse) discharged toilet paper from test specimens, and prepare test specimens for further testing.
- 2.4.9 Flush sample to clean bowl and trapway and fully restore trap seal.
- 2.4.10 Increase (or decrease) mass loading, as required, based on the following intervals, and repeat waste extraction test until such time as the maximum loading has been reached as described in paragraph 2.4.11:
 - 50g
 - 100g
 - 150g
 - 200g
 - 250g
 - 300g
 - 350g
 - 400g
 - 500g
 - 600g
 - 800g
 - 1,000g

No testing shall be conducted at mass loading greater than 1,000g.

- 2.4.11 Record highest mass loading at which toilet test sample successfully removed all test media from fixture and restored minimum 2-in. trap seal in

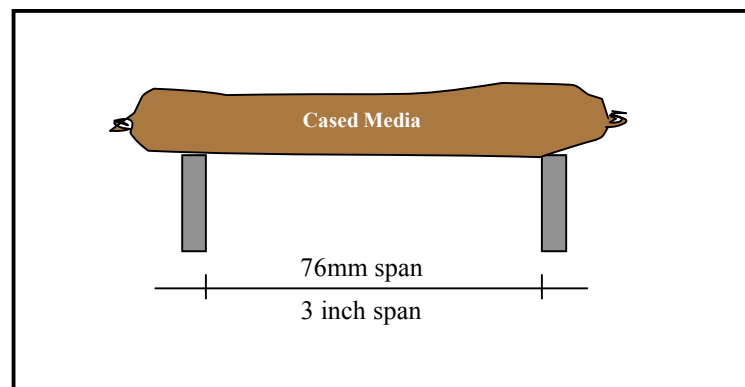
at least four of five attempts. This loading represents the maximum performance level for the test sample (i.e., the MaP score).

3.0 Test Media Specifications

- 3.1 Soybean paste nominal specifications:
- 35.5% water, 33.8% soybean, 18.5% rice, and 12.2% salt, and having a density of 1.15 ± 0.10 g/mL (i.e., density greater than that of water).
- 3.2 Latex casing specifications:
- Casings made from non-lubricated latex condoms (LifeStyles® brand, purchased from Ansell Healthcare Products LLC, Dothan, AL 36303 USA).
- 3.3 Cord used to tie casing:
- 1.0mm diameter polymer cord that will not crack or harden with time (Stretch Magic Bead & Jewelry Cord, Pepperell Braiding Company, P.O. Box 1487, Pepperell, MA 01463, 800-343-8114)
- 3.4 Cased test specimens:
- Each test specimen shall have a mass of 50 ± 4 g.
 - Test specimens must be able to span clear distance of 76mm (3-in.) for minimum of 15 seconds when tested at room temperature (setup illustrated in Figure 1).
 - Test specimens with rips, tears, punctures, or other damage, shall not be used.
 - Test specimens may contain small volumes of air, however, specimens that float shall not be used.
- 3.5 Recommendations for storage of cased test specimens:
- Test specimens should be stored in air-tight containers and refrigerated when not in use. A damp sponge should be placed in bottom of container to prevent test specimen drying.
- 3.6 Toilet paper specifications:
- Each ball of paper is comprised of six sheets of single ply toilet paper conforming to ASME A112.19.14–2006, section 3.2.4.1.

NOTE Cased test specimens (ready-to-use) may be purchased from:

Veritec Consulting Inc.
1495 Bonhill Road, Unit 12
Mississauga, Ontario, Canada L5T 1M2
Phone (905) 696-9391, ext. 105
Fax (905) 696-9395
bill@veritec.ca



Glossary of Terms for Appendices B and C

The following terms and acronyms are used in Appendices B and C:

ADA – Americans with Disabilities Act: ADA-qualified toilet fixtures have a minimum bowl height of 16 inches from floor to top of the bowl rim; the toilet seat adds approximately one inch in height, giving the typical ADA fixture an effective bowl height of 17 inches.

EL – Elongated toilet bowl

Gal - Gallons

HET – High-Efficiency Toilet: An HET is defined as a toilet fixture whose average flush volume is equal to or less than 4.8 litres (1.28 gallons) per flush. Dual-flush toilets are classified as HETs because the ratio of reduced flushes (4.1L-1.1G) to full flushes (4.8L-1.6G) results in an average flush volume below the qualifying threshold.

L – Litres (Liters)

MaP – Maximum Performance: In this report, the term applies to toilet fixture flush performance.

RF – Round front toilet bowl

SPS – Supplementary Purchase Specification: The SPS, developed in 2000 by the City of Los Angeles Department of Water and Power and the International Association of Plumbing and Mechanical Officials, is designed to assure the sustainability of the toilet fixture's water savings characteristics; flapper durability and maximum permitted flush volume are the main components of the SPS.

Maximum Performance (MaP) of Toilet Fixtures

APPENDIX B - Sorted by Manufacturer

MaP Test Report No.	KEY:			MaP Flush Performance (grams of solid waste removed in a SINGLE flush)	Meets Los Angeles specification (SPS) for water savings sustainability	1-piece or 2-piece model	Flush Valve-Flapper size (in.)	No flapper / Non-traditional flapper	Round Front (R) or Elongated (E) bowl	ADA-Comfort Height-Right Height	1.6G (6L) Gravity-flush	1.6G (6L) Vacuum-Assist	Power OR Pressure-Assisted Full Flush at 1.6-G (6-L)	High-Efficiency Toilets (HETs)			Rear Discharge	Floor-Mounted (F) OR Wall-Mounted (W)
	Flush performance (MaP score)													Dual-Flush	Max 1.1-G (4-L) Pressure-Assist	Max 1.28 G (4.8 L) Gravity		
		Less than 250 grams																
		250 grams to 475 grams																
		500 grams and more																
	Type of toilet fixture																	
	6-L (1.6-gal) Pressure- or power-assist																	
	4-L (1.1-gal) Pressure-assist																	
	Gravity-fed & Vacuum-assist																	
Make	Model Name	Model Number																
7-521	American Standard	Cadet 3 EL (10" rough-in)	2383.010: 3014 bowl, 4019 tank	800	SPS	2	3		E		*						F	
6-641	American Standard	Cadet 3 EL (12" rough-in)	2383.012: 3014 bowl, 4021 tank (unlined)	1,000	SPS	2	3	*	E		*						F	
7-541	American Standard	Cadet 3 EL (12" rough-in)	3014 bowl, 4021.500 LINED tank	800	SPS	2	3		E		*						F	
7-520	American Standard	Cadet 3 EL (14" rough-in)	2383.014: 3014 bowl, 4027 tank	1,000	SPS	2	3		E		*						F	
7-518	American Standard	Cadet 3 EL ADA (10" rough-in)	2386.010: 3016 bowl, 4019 tank	1,000	SPS	2	3		E	*	*						F	
7-523	American Standard	Cadet 3 EL ADA (12" rough-in)	2386.012: 3016 bowl, 4021 tank (unlined)	1,000	SPS	2	3		E	*	*						F	
7-542	American Standard	Cadet 3 EL ADA (12" rough-in)	3016 bowl, 4021.500 LINED tank	1,000	SPS	2	3		E	*	*						F	
7-516	American Standard	Cadet 3 EL ADA (14" rough-in)	2386.014: 3016 bowl, 4027 tank	1,000	SPS	2	3		E	*	*						F	
7-517	American Standard	Cadet 3 RF (10" rough-in)	2384.010: 3011 bowl, 4019 tank	1,000	SPS	2	3		R		*						F	
7-522	American Standard	Cadet 3 RF (12" rough-in)	2384.012: 3011 bowl, 4021 tank	1,000	SPS	2	3		R		*						F	
7-543	American Standard	Cadet 3 RF (12" rough-in)	3011 bowl, 4021.500 LINED tank	1,000	SPS	2	3		R		*						F	
7-519	American Standard	Cadet 3 RF (14" rough-in)	2384.014: 3011 bowl, 4027 tank	1,000	SPS	2	3		R		*						F	
	American Standard	Cadet EL	2333: 4098 tank, 3099 bowl	750	SPS	2	-		E				*				F	
	American Standard	Cadet EL	2898: 4112 tank, 3459 bowl	125		2	2		E		*						F	
	American Standard	Cadet RF	2798: 4112 tank, 3454 bowl	150		2	2		R		*						F	
	American Standard	Champion EL	2018: 3121 bowl, 4260 tank	1,000	SPS	2	3	*	E		*						F	
5-558	American Standard	Champion EL (one-piece)	2004	650	SPS	1	3		E		*						F	
5-538	American Standard	Champion EL ADA (one-piece)	2034	800	SPS	1	3	*	E	*	*						F	
	American Standard	Champion RF	2023: 3110 bowl, 4260 tank	800	SPS	2	3	*	R		*						F	
5-502	American Standard	Champion Right Height EL ADA	2002: 3225 bowl, 4260 tank	1,000	SPS	2	3	*	E	*	*						F	
5-546	American Standard	Champion Select EL	2087: 3121 bowl, 4272 tank	1,000	SPS	2	3	*	E		*						F	
5-545	American Standard	Champion Select EL ADA	2057: 3225 bowl, 4272 tank	1,000	SPS	2	3	*	E	*	*						F	
5-547	American Standard	Champion Select RF	2035: 3110 bowl, 4272 tank	800	SPS	2	3	*	R		*						F	
	American Standard	Colony / Afton RF	4392.016 tank, 3038 bowl	775		2	2		R		*						F	
	American Standard	Colony / Afton RF (lined tank)	4392.500 LINED tank, 3038 bowl	775		2	2		R		*						F	
5-540	American Standard	Doral Champion EL	2368: 3121 bowl, 4272 tank	1,000	SPS	2	3	*	E		*						F	
5-539	American Standard	Doral Champion EL ADA	2367: 3225 bowl, 4272 tank	1,000	SPS	2	3	*	E	*	*						F	
5-541	American Standard	Doral Champion RF	2369: 3110 bowl, 4272 tank	800	SPS	2	3	*	R		*						F	
5-543	American Standard	Doral Classic/Williamsburg EL	2074: 3121 bowl, 4172.016 tank	1,000	SPS	2	3	*	E		*						F	
5-542	American Standard	Doral Classic/Williamsburg EL ADA	2058: 3225 bowl, 4172.016 tank	1,000	SPS	2	3	*	E	*	*						F	
5-544	American Standard	Doral Classic/Williamsburg RF	2076: 3110 bowl, 4172.016 tank	800	SPS	2	3	*	R		*						F	
	American Standard	FloWise EL	2073.013: 3018.013 bowl, 4023.013 tank	550	SPS	2	3	*	E						HET		F	
	American Standard	Glenwall EL	3402 bowl, 4098 tank	800	SPS	2	-		E				*			*	W	
5-531	American Standard	Oakmont Champion EL ADA	2738: 3101 bowl, 4272 tank	1,000	SPS	2	3	*	E	*	*						F	
5-532	American Standard	Oakmont Champion EL	2625: 3153 bowl, 4272 tank	1,000	SPS	2	3	*	E		*						F	
5-503	American Standard	Oakmont Champion RF	2627: 3167 bowl, 4272 tank	1,000	SPS	2	3	*	R		*						F	
	American Standard	Plebe EL	3344 bowl, 4392 tank,	225		2	2		E		*						F	
	American Standard	Ravenna RF	3454 bowl, 4096 tank	200		2	2		R		*						F	
6-642	American Standard	Skyline Champion EL ADA	3225 bowl, 4077 tank	1,000	SPS	2	3	*	E	*	*						F	

Maximum Performance (MaP) of Toilet Fixtures

APPENDIX B - Sorted by Manufacturer

MaP Test Report No.	KEY:			MaP Flush Performance (grams of solid waste removed in a SINGLE flush)	Meets Los Angeles specification (SPS) for water savings sustainability	1-piece or 2-piece model	Flush Valve-Flapper size (in.)	No flapper / Non-traditional flapper	Round Front (R) or Elongated (E) bowl	ADA-Comfort Height-Right Height	1.6G (6L) Gravity-flush	1.6G (6L) Vacuum-Assist	Power OR Pressure-Assisted Full Flush at 1.6-G (6-L)	High-Efficiency Toilets (HETs)			Rear Discharge	Floor-Mounted (F) OR Wall-Mounted (W)	
	Flush performance (MaP score)		Type of toilet fixture																
		Less than 250 grams																	
		250 grams to 475 grams																	
		500 grams and more																	
Make	Model Name	Model Number												Dual-Flush	Max 1.1-G (4-L) Pressure-Assist	Max 1.28 G (4.8 L) Gravity			
6-643	American Standard	Skyline Champion RF	3110 bowl, 4077 tank	1,000	SPS	2	3	*	R		*								F
	American Standard	Sonoma RF	3338 bowl, 4392 tank	325		2	2		R		*								F
5-529	American Standard	Townsend Champion EL ADA	2733: 3177 bowl, 4281 tank	1,000	SPS	2	3	*	E	*	*								F
5-533	American Standard	Townsend Champion RF ADA	2735: 3180 bowl, 4281 tank	1,000	SPS	2	3	*	R	*	*								F
	American Standard	Yorkville EL	2320: 3120 bowl, 4099 tank	1,000	SPS	2	-		E				*					*	F
7-535	Aquadis	CT-A1200 RF	CT-A1200 (bowl & tank models nos. not identified)	300		2	2		R		*				HET				F
	Briggs	Abingdon III RF (one piece)	4229: 4875 bowl, 4440 tank	150	d	1	2		R		*								F
8-511	Briggs	Altima III RF	4232: 4320 bowl, 4430 tank	600	d	2	2		R		*								F
	Briggs	Hathaway Vacuity EL	4360 bowl, 4460 tank	700		2	2		E			*							F
7-536	Briggs	Maelstrom EL	4395 bowl, 4490 tank	600		2	3		E		*								F
7-537	Briggs	Maelstrom EL ADA	4398 bowl, 4490 tank	600		2	3		E	*	*								F
7-538	Briggs	Maelstrom RF	4390 bowl, 4490 tank	400		2	3		R		*								F
	Briggs	Vacuity EL	4200: 4300 bowl, 4400 tank	375	d	2	2		E			*							F
	Briggs	Vacuity EL	4245: 4345 bowl, 4400 tank	650	d	2	2		E			*						*	F
	Briggs	Vacuity RF	4210: 4310 bowl, 4400 tank	500	d	2	2		R			*							F
	Capizzi	Turbo Capizzi EL	0778 bowl, 1278 tank	475	SPS	2	-		E							HET			F
5-510	Capizzi	Turbo Capizzi High Profile EL	0478 bowl, 1578 tank	500	SPS	2	-		E							HET			F
5-511	Capizzi	Turbo Capizzi Low Profile EL	0478 bowl, 1513 tank	400	SPS	2	-		E							HET			F
5-513	Capizzi	Turbo Capizzi Low Profile EL ADA	0441 bowl, 1513 tank	500	SPS	2	-		E	*						HET			F
8-536	Caroma	Adelaide 270 Cube EL	834000 bowl, 814790 tank	700	SPS	2	-	*	E		*				HET				F
8-537	Caroma	Adelaide 270 Standard EL	834000 bowl, 814328 tank	700	SPS	2	-	*	E		*				HET				F
8-538	Caroma	Caravelle 1-Piece Easy Height EL ADA	989670	800	SPS	1	-	*	E	*	*				HET				F
9-032	Caroma	Caravelle 270 EL	609100 bowl, 629435 tank	500	SPS	2	2	*	E		*				HET				F
7-525	Caroma	Caravelle 270 EL ADA	609120 bowl, 629435 tank	800	SPS	2	2	*	E	*	*				HET				F
	Caroma	Caravelle 270 RF	989760: 609159 bowl, 629435 tank	500	SPS	2	-	*	R		*				HET				F
5-509	Caroma	Caravelle 270 RF ADA	989770: 609177 bowl, 629435 tank	800	SPS	2	-	*	R	*	*				HET				F
7-526	Caroma	Caravelle 305 EL	609130 bowl, 629435 tank	500	SPS	2	2	*	E		*				HET				F
5-508	Caroma	Caravelle 305 RF	989680: 609151 bowl, 629435 tank	650	SPS	2	-	*	R		*				HET				F
	Caroma	Caravelle One-Piece RF	989646	500		1	-	*	R		*				HET				F
7-513	Caroma	Colonial 270 RF	605310 bowl, 625070 tank	600		2	-	*	R		*				HET				F
7-527	Caroma	Reflections 270 EL	609100 bowl, 629530 tank	500		2	2	*	E		*				HET				F
5-507	Caroma	Reflections 270 RF	989720: 609159 bowl , 629530 tank	650	SPS	2	-	*	R		*				HET				F
7-524	Caroma	Reflections 305 RF	609151 bowl, 629530 tank	600	SPS	2	2	*	R		*				HET				F
7-514	Caroma	Royale 270 EL ADA	609120 bowl, 624530 tank	850	SPS	2	-	*	E	*	*				HET				F
7-528	Caroma	Royale 270 RF	609159 bowl, 624530 tank	600		2	2	*	R		*				HET				F
5-519	Caroma	Royale 305 EL	609130 bowl, 629530 tank	850		2	-	*	E		*				HET				F
	Caroma	Royale 305 RF	609151 bowl, 624530 tank	600	SPS	2	-	*	R		*				HET				F
8-533	Caroma	Sydney 270 EL ADA	609120 bowl, 622320 tank	1,000	SPS	2	-	*	E	*	*				HET				F
8-534	Caroma	Sydney 305 EL	609130 bowl, 622320 tank	350	SPS	2	-	*	E		*				HET				F

Maximum Performance (MaP) of Toilet Fixtures APPENDIX B - Sorted by Manufacturer

APPENDIX B - Sorted by Manufacturer

MaP Test Report No.	KEY:			MaP Flush Performance (grams of solid waste removed in a SINGLE flush)	Meets Los Angeles specification (SPS) for water savings sustainability	1-piece or 2-piece model	Flush Valve-Flapper size (in.)	No flapper / Non-traditional flapper	Round Front (R) or Elongated (E) bowl	ADA-Comfort Height-Right Height	1.6G (6L) Gravity-flush	1.6G (6L) Vacuum-Assist	Power OR Pressure-Assisted Full Flush at 1.6-G (6-L)	High-Efficiency Toilets (HETs)			Rear Discharge	Floor-Mounted (F) OR Wall-Mounted (W)
	Flush performance (MaP score)		Dual-Flush											Max 1.1-G (4-L) Pressure-Assist	Max 1.28 G (4.8 L) Gravity			
	Type of toilet fixture																	
	Make	Model Name	Model Number															
8-535	Caroma	Sydney 305 EL Standard	609151 bowl, 622320 tank	500	SPS	2	-	*	E		*				HET		F	
	Caroma	Tasman 270 RF	989860: 609169 bowl, 800032 tank	550	SPS	2	-	*	R		*				HET		F	
8-532	Cascadian	EL	C5000 bowl; T5000 tank	250		2	3		E		*						F	
8-531	Cascadian	RF	C1101 bowl; T1102 tank	300		2	2		R		*						F	
8-506	Ceralux/Mancesa	San Marino EL ADA	2262 bowl, 2261 tank	500		2	2		E	*	*						F	
8-505	Ceralux/Mancesa	Windsor RF	2700 bowl, 2711 tank	400		2			R		*						F	
	Corona	Orchid RF	8510	200		2	2		R		*						F	
	Crane	Cranada Pro II / Galaxy Elite II EL	3792: 3372 bowl, 3742 tank	375	SPS	2	2		E		*						F	
	Crane	Cranada Pro II / Galaxy Elite II RF	3782: 3352 bowl, 3742 tank	450	SPS	2	2		R		*						F	
	Crane	Economiser EL	3835: 3825 bowl, 3612 tank	725	SPS	2	-		E				*				F	
	Crane	Economiser RF	3834: 3824 bowl, 3612 tank	750	SPS	2	-		R				*				F	
	Crane	SureFlush EL	31362: 31202 bowl, 31242 tank	500	SPS	2	3	*	E		*						F	
	Crane	SureFlush EL ADA	31372: 31212 bowl, 31242 tank	500	SPS	2	3	*	E	*	*						F	
	Crane	SureFlush RF	31352: 31192 bowl, 31242 tank	350	SPS	2	3	*	R		*						F	
	Crane	VIP Flush EL	3996: 3991 bowl, 3976 tank	350	SPS	2	2		E			*					F	
	Crane	VIP Flush RF	3995: 3990 bowl, 3976 tank	725	SPS	2	2		R			*					F	
	Crane	VIP RF	3997: 3992 bowl, 3976 tank	550		2	2		R			*				*	F	
8-527	Duravit	Caro EL	010101 bowl; 092410 tank	1,000		2	3		E		*						F	
8-544	Duravit	Darling	020709 bowl, 111.335 in-wall tank (Geberit)	300		2	2		R		*				HET		* W	
8-526	Duravit	Duraplus EL	010201 bowl; 092510 tank	1,000		2	3		E		*						F	
6-605	Duravit	Happy D RF	017009 bowl, 091000-05 tank	600		2	2		R		*				HET		* W	
6-604	Duravit	Happy D Wallmount RF	017109 bowl, 111.335 in-wall tank (Geberit)	600		2	2		R		*				HET		* W	
8-529	Duravit	Phillipe Starck RF (one piece)	16301.02	300		1	3		R		*						* W	
6-602	Duravit	Starck 2 EL (one piece)	16301	250		1	3		E		*						* W	
8-543	Duravit	Starck 3 RF	220009 bowl, 111.335 in-wall tank (Geberit)	250		2	2		R		*				HET		* W	
	Eljer	Aquasaver EL	091-7025: 131-7025 bowl, 141-7000 tank	550	SPS	2	-		E				*				F	
9-007	Eljer	Canterbury EL (one piece)	081-3025	600		1	3		E		*						F	
	Eljer	Canterbury RF	081-1620	150		1	2		R		*						F	
	Eljer	Patriot EL ADA	131-2175 bowl, 141-0220 tank	425		2	2		E	*	*						F	
	Eljer	Patriot RF	091-2120: 141-2120 tank, 131-2120 bowl	150		2	2		R		*						F	
	Eljer	Patriot Savoy EL	091-0225: 131-2125 bowl, 141-0220 tank	500		2	2		E		*						F	
	Eljer	Patriot Savoy RF	091-0220: 131-2120 bowl, 141-0220 tank	425		2	2		R		*						F	
9-009	Eljer	Power 1-G EL	091-7625: 131-7625 bowl; 141-7600 tank	800	SPS	2	-		E							HET	F	
9-010	Eljer	Power 1-G EL ADA	091-7675: 131-7675 bowl; 141-7600 tank	800	SPS	2	-		E	*						HET	F	
9-008	Eljer	PR Titan RF (one piece)	081-0750	1,000		1	3		R		*						F	
8-514	Eljer	Titan EL (one piece)	081-0755	1,000		1	3		E		*						F	
7-503	Eljer	Titan EL	091-0755: 131-0755 bowl, 141-0777 tank	600		2	3		E		*						F	
8-515	Eljer	Titan EL ADA (one piece)	081-0777	1,000		1	3		E	*	*						F	
	Eljer	Titan EL ADA	091-0777: 131-0777 bowl, 141-0777 tank	900		2	3		E	*	*						F	

Maximum Performance (MaP) of Toilet Fixtures

APPENDIX B - Sorted by Manufacturer

MaP Test Report No.	KEY:			MaP Flush Performance (grams of solid waste removed in a SINGLE flush)	Meets Los Angeles specification (SPS) for water savings sustainability	1-piece or 2-piece model	Flush Valve-Flapper size (in.)	No flapper / Non-traditional flapper	Round Front (R) or Elongated (E) bowl	ADA-Comfort Height-Right Height	1.6G (6L) Gravity-flush	1.6G (6L) Vacuum-Assist	Power OR Pressure-Assisted Full Flush at 1.6-G (6-L)	High-Efficiency Toilets (HETs)			Rear Discharge	Floor-Mounted (F) OR Wall-Mounted (W)
	Flush performance (MaP score)													Dual-Flush	Max 1.1-G (4-L) Pressure-Assist	Max 1.28 G (4.8 L) Gravity		
		Less than 250 grams																
		250 grams to 475 grams																
		500 grams and more																
	Type of toilet fixture																	
	6-L (1.6-gal) Pressure- or power-assist																	
	4-L (1.1-gal) Pressure-assist																	
	Gravity-fed & Vacuum-assist																	
	Make	Model Name	Model Number															
8-518	Eljer	Titan Elite EL	091-2755: 131-0755 bowl; 141-2777 tank	1,000		2	3		E		*						F	
8-521	Eljer	Titan Elite EL ADA	091-2777: 131-0777 bowl; 141-2777 tank	1,000		2	3		E	*	*						F	
8-516	Eljer	Titan Elite RF	091-2750: 131-0750 bowl; 141-2777 tank	1,000		2	3		R		*						F	
7-504	Eljer	Titan RF	091-0750: 131-0750 bowl; 141-0777 tank	600		2	3		R		*						F	
8-519	Eljer	Titan Triangle EL	091-3750: 131-0755 bowl; 141-3777 tank	1,000		2	3		E		*						F	
8-520	Eljer	Titan Triangle EL ADA	091-3777: 131-0777 bowl; 141-3777 tank	1,000		2	3		E	*	*						F	
8-517	Eljer	Titan Triangle RF	091-3750: 131-0750 bowl; 141-3777 tank	1,000		2	3		R		*						F	
9-006	Eljer	Toronto Patriot EL	091-2025: 131-2125 bowl; 141-2020 tank	600		2	2		E		*						F	
9-004	Eljer	Toronto Patriot EL ADA	091-2075: 131-2175 bowl; 141-2020 tank	800		2	2		E	*	*						F	
9-005	Eljer	Toronto Patriot RF	091-2020: 131-2120 bowl; 141-2020 tank	400		2	2		R		*						F	
7-505	Eljer	Toronto Savoy EL	091-0265: 131-2125 bowl, 141-0260 tank	400		2	2		E		*						F	
7-534	Eljer	Toronto Savoy EL ADA	091-1265: 131-2175 bowl, 141-0260 tank	1,000		2	2		E	*	*						F	
	Eljer	Toronto Savoy RF	091-0280: 131-2120 bowl, 141-0260 tank	325		2	2		R		*						F	
	Foremost	Classic RF	LL-1207 bowl, T-1207 tank	275		2	2		R		*						F	
8-539	Foremost	Gemini Dual-Flush RF	TL-2005-L: LL-2005 bowl, T-2005-L tank (lined)	800		2	2	*	R		*			HET			F	
9-044	Foremost	Gemini Dual-Flush RF ADA	TL-2100-WL (one-piece)	500		1	2	*	R	*	*			HET			F	
8-530	Foremost	Moline EL	TL-8267-L: LL-8267 bowl, T-8267 tank (lined)	700		2	2.5		E		*						F	
7-530	Foremost	Pegasus Collonaide EL ADA	TL-6010-E: LL-6010-E bowl, T-6010 tank	400		2	3		E	*	*						F	
8-540	Foremost	Pegasus Dual-Flush RF	SKU 131-926	800		2	2	*	R		*			HET			F	
9-046	Foremost	Pegasus EL ADA	SKU 464-747 (one-piece)	1,000		1	2		E	*	*						F	
	Foremost	Premier / Lilas EL ADA	LL-8207-HC bowl, T-8207 tank	850		2	2		E	*	*						F	
	Foremost	Premier / Lilas RF	LL-8207 bowl, T-8207 tank	375		2	2		R		*						F	
	Foremost	Premier / Lilas RF	TL-5101-L (lined tank)	325		1	2		R		*						F	
	Foremost	Regent RF	LL-5207 bowl, T-5207 tank	350		2	2		R		*						F	
6-625	Foremost	Rona Toilet-To-Go RF	TL-8257-TTG	250		2	2		R		*						F	
9-045	Foremost	Tuxedo EL ADA	TL-5300E-WL (one-piece)	1,000		1	2		E	*	*						F	
	Gerber	Aquasaver EL	21-712: 28-790 tank	150		2	2		E		*						F	
5-574	Gerber	Aquasaver EL (one-piece)	21-015	400		1	2		E		*						F	
9-029	Gerber	Avalanche EL ADA	21-817: 21-828 bowl, 28-895 tank	1,000	SPS	2	3		E	*	*						F	
9-030	Gerber	Avalanche EL ADA	21-818: 21-828 bowl, 28-890 tank	1,000	SPS	2	3		E	*	*						F	
9-031	Gerber	Avalanche EL ADA	21-824: 21-828 bowl, 28-894 tank	1,000	SPS	2	3		E	*	*						F	
5-564	Gerber	Ultra Dual Flush EL	DF-21-312: 21-372 bowl, DF-28-380 tank	1,000	SPS	2	-		E				*	HET			F	
5-580	Gerber	Ultra Dual Flush EL	DF-21-314: 21-372 bowl, DF-28-384 tank	1,000	SPS	2	-		E				*	HET			F	
5-560	Gerber	Ultra Dual Flush EL ADA	DF 21-318: 21-377 bowl, DF-28-380 tank	1,000	SPS	2	-		E	*			*	HET			F	
5-586	Gerber	Ultra Dual Flush EL ADA	DF-21-324: 21-377 bowl, DF-28-384 tank	1,000	SPS	2	-		E	*			*	HET			F	
5-567	Gerber	Ultra Dual Flush EL ADA (rear discharge)	DF-21-325: 21-375 bowl, DF-28-380 tank	1,000	SPS	2	-		E	*			*	HET		*	F	
5-560	Gerber	Ultra Dual Flush EL ADA (w/bedpan lugs)	DF 21-319: 21-329 bowl, DF-28-390 tank	1,000	SPS	2	-		E	*			*	HET			F	
6-616	Gerber	Ultra Dual Flush RF	DF-21-302: 21-342 bowl, DF-28-380 tank	1,000	SPS	2			R				*	HET			F	
6-620	Gerber	Ultra Dual Flush RF	DF-21-304: 21-342 bowl, DF-28-384 tank	1,000	SPS	2	-		R				*	HET			F	

Maximum Performance (MaP) of Toilet Fixtures

APPENDIX B - Sorted by Manufacturer

MaP Test Report No.	KEY:			MaP Flush Performance (grams of solid waste removed in a SINGLE flush)	Meets Los Angeles specification (SPS) for water savings sustainability	1-piece or 2-piece model	Flush Valve-Flapper size (in.)	No flapper / Non-traditional flapper	Round Front (R) or Elongated (E) bowl	ADA-Comfort Height-Right Height	1.6G (6L) Gravity-flush	1.6G (6L) Vacuum-Assist	Power OR Pressure-Assisted Full Flush at 1.6-G (6-L)	High-Efficiency Toilets (HETs)			Rear Discharge	Floor-Mounted (F) OR Wall-Mounted (W)
	Flush performance (MaP score)		Dual-Flush											Max 1.1-G (4-L) Pressure-Assist	Max 1.28 G (4.8 L) Gravity			
		Less than 250 grams																
		250 grams to 475 grams																
		500 grams and more																
Type of toilet fixture																		
		6-L (1.6-gal) Pressure- or power-assist																
		4-L (1.1-gal) Pressure-assist																
		Gravity-fed & Vacuum-assist																
	Make	Model Name	Model Number															
	Gerber	Ultra Flush (rear discharge)	21-310: 21-374 bowl, 28-380 tank	625	SPS	2	-		E				*			*	F	
	Gerber	Ultra Flush EL	21-302: 21-342 bowl, 28-380 tank	900	SPS	2	-		E				*				F	
5-562	Gerber	Ultra Flush EL	21-312: 21-372 bowl , 28-380 tank	1,000	SPS	2	-		E				*				F	
5-578	Gerber	Ultra Flush EL	21-314: 21-372 bowl , 28-384 tank	1,000	SPS	2	-		E				*				F	
5-577	Gerber	Ultra Flush EL ADA	21-311: 21-372 bowl, 28-385 tank	1,000	SPS	2	-		E	*			*				F	
5-581	Gerber	Ultra Flush EL ADA	21-317: 21-377 bowl, 28-385 tank	1,000	SPS	2	-		E	*			*				F	
5-561	Gerber	Ultra Flush EL ADA	21-318: 21-377 bowl, 28-380 tank	1,000	SPS	2	-		E	*			*				F	
5-582	Gerber	Ultra Flush EL ADA	21-324: 21-377 bowl, 28-384 tank	1,000	SPS	2	-		E	*			*				F	
5-559	Gerber	Ultra Flush EL ADA	EF 21-318: 21-377 bowl, EF-28-380 tank	800	SPS	2	-		E	*					HET		F	
5-563	Gerber	Ultra Flush EL ADA	EF-21-312: 21-372 bowl, EF-28-380 tank	800	SPS	2	-		E	*					HET		F	
5-576	Gerber	Ultra Flush EL ADA	EF-21-314: 21-372 bowl, EF-28-384 tank	800	SPS	2	-		E	*					HET		F	
5-584	Gerber	Ultra Flush EL ADA	EF-21-324: 21-372 bowl, EF-28-384 tank	800	SPS	2	-		E	*					HET		F	
5-565	Gerber	Ultra Flush EL ADA (rear discharge)	21-325: 21-375 bowl, 28-380 tank	1,000	SPS	2	-		E	*			*			*	F	
5-566	Gerber	Ultra Flush EL ADA (rear discharge)	EF-21-325: 21-375 bowl, EF-28-380 tank	800	SPS	2	-		E	*					HET	*	F	
5-559	Gerber	Ultra Flush EL ADA (w/bedpan lugs)	EF-21-319: 21-329 bowl, EF-28-390 tank	800	SPS	2	-		E	*					HET		F	
6-617	Gerber	Ultra Flush RF	21-300: 21-342 bowl, 28-385 tank	900	SPS	2	-		R				*				F	
6-618	Gerber	Ultra Flush RF	21-304: 21-342 bowl, 28-384 tank	900	SPS	2	-		R				*				F	
6-615	Gerber	Ultra Flush RF	EF-21-302: 21-342 bowl, EF-28-380 tank	1,000	SPS	2	-		R						HET		F	
6-619	Gerber	Ultra Flush RF	EF-21-304: 21-342 bowl, EF-28-384 tank	1,000	SPS	2	-		R						HET		F	
9-017	Gerber	Viper EL	21-510: 21-562 bowl, 28-595 tank	800		2	2		E		*						F	
9-018	Gerber	Viper EL	21-510: 21-562 bowl, EH28-595 tank	800	SPS	2	2		E		*						F	
9-019	Gerber	Viper EL	21-512: 21-562 bowl, 28-590 tank	800		2	2		E		*						F	
9-020	Gerber	Viper EL	21-512: 21-562 bowl, EH28-590 tank	800	SPS	2	2		E		*						F	
9-021	Gerber	Viper EL	21-514: 21-562 bowl, 28-594 tank	800		2	2		E		*						F	
9-022	Gerber	Viper EL	21-514: 21-562 bowl, EH28-594 tank	500	SPS	2	2		E		*		*				F	
9-023	Gerber	Viper EL ADA	21-517: 21-528 bowl, 28-595 tank	600		2	2		E	*	*		*				F	
9-024	Gerber	Viper EL ADA	21-517: 21-528 bowl, EH28-595 tank	800	SPS	2	2		E	*	*	*					F	
9-025	Gerber	Viper EL ADA	21-518: 21-528 bowl, 28-590 tank	800		2	2		E	*	*	*					F	
9-026	Gerber	Viper EL ADA	21-518: 21-528 bowl, EH28-590 tank	800	SPS	2	2		E	*	*	*					F	
9-027	Gerber	Viper EL ADA	21-524: 21-528 bowl, 28-594 tank	600		2	2		E	*	*	*					F	
9-028	Gerber	Viper EL ADA	21-524: 21-528 bowl, EH28-594 tank	600	SPS	2	2		E	*	*	*					F	
9-011	Gerber	Viper RF	21-500: 21-552 bowl, 28-595 tank	600		2	2		R		*		*				F	
9-012	Gerber	Viper RF	21-500: 21-552 bowl, EH28-595 tank	500	SPS	2	2		R		*		*				F	
9-013	Gerber	Viper RF	21-502: 21-552 bowl, 28-590 tank	600		2	2		R		*		*				F	
9-014	Gerber	Viper RF	21-502: 21-552 bowl, EH28-590 tank	600	SPS	2	2		R		*		*				F	
9-015	Gerber	Viper RF	21-504: 21-552 bowl, 28-594 tank	600		2	2		R		*		*				F	
9-016	Gerber	Viper RF	21-504: 21-552 bowl, EH28-594 tank	500	SPS	2	2		R		*		*				F	
8-548	HCG	King EL	CS1003 King: C1003 bowl, S352 tank	350		2	3		E		*		*				F	
8-546	HCG	None - EL	CS9001DF: C9001 bowl, S9002DF tank	400		2	2		E		*				HET		F	

Maximum Performance (MaP) of Toilet Fixtures

APPENDIX B - Sorted by Manufacturer

MaP Test Report No.	KEY:			MaP Flush Performance (grams of solid waste removed in a SINGLE flush)	Meets Los Angeles specification (SPS) for water savings sustainability	1-piece or 2-piece model	Flush Valve-Flapper size (in.)	No flapper / Non-traditional flapper	Round Front (R) or Elongated (E) bowl	ADA-Comfort Height-Right Height	1.6G (6L) Gravity-flush	1.6G (6L) Vacuum-Assist	Power OR Pressure-Assisted Full Flush at 1.6-G (6-L)	High-Efficiency Toilets (HETs)			Rear Discharge	Floor-Mounted (F) OR Wall-Mounted (W)
	Flush performance (MaP score)		Dual-Flush											Max 1.1-G (4-L) Pressure-Assist	Max 1.28 G (4.8 L) Gravity			
		Less than 250 grams																
		250 grams to 475 grams																
		500 grams and more																
Type of toilet fixture			6-L (1.6-gal) Pressure- or power-assist															
			4-L (1.1-gal) Pressure-assist															
			Gravity-fed & Vacuum-assist															
Make	Model Name	Model Number																
8-547	HCG	None - EL ADA	CS1001: C1001 bowl, S1001 tank	400		2	3		E	*	*						F	
8-545	HCG	None - RF	CS9002DF: C9002 bowl, S9002DF tank	350		2	2		R		*			HET			F	
8-549	HCG	Queen EL	CS1003 Queen: C1003 bowl, S353 tank	400		2	3		E		*						F	
6-612	Home Depot - Glacier Bay	All-In-One RF	TG-4200-WL: SKU 170-263	300		2	2		R		*						F	
	Home Depot - Glacier Bay	Aragon IV RF	164963	175		2	2		R		*						F	
7-532	Home Depot - Glacier Bay	Westminster EL ADA	TL-6800-E: LL-6800-E bowl (SKU 160-753), T-6800 tank (SKU 164-146)	250		2	3		E	*	*						F	
7-530	Home Depot - Pegasus	Collonaide EL ADA	SKU 160-406 bowl, 152-143 tank	400		2	3		E	*	*						F	
8-540	Home Depot - Pegasus	Dual-Flush RF	SKU 131-926	800		2	-		R		*			HET			F	
5-534	Home Depot - Pegasus	Tulip EL (See Vortens-Lamosa)	SKU 477-546: 3107 bowl, 3427 tank	400	SPS	2	-	*	E		*			HET			F	
8-541	Jacuzzi	Era Collection EL ADA	BK37959 (sold as a set)	800		2	3		E	*	*						F	
	Jacuzzi	Era EL	BM06	250		1	3		E		*						F	
8-554	Jacuzzi	ERA Toilet "in a box" EL ADA	BK37959	800		2	3		E	*	*						F	
8-512	Jacuzzi	Maxima EL ADA	DP55959 bowl, EL61959 tank	1,000		2	3		E	*	*						F	
	Jacuzzi	Perfecta EL ADA	BN30959 bowl, BN30-BN31 tank	300		2	3		E	*	*						F	
8-542	Jacuzzi	Perfecta RF ADA	BN31959 (sold as a set)	800		2	3		R	*	*						F	
5-526	Kohler	Bancroft Comfort Height EL ADA	K-3487: 4281 bowl, 4633 tank	800	SPS	2	3		E	*	*						F	
6-603	Kohler	Barrington Pressure Lite EL	K-3554: 4327 bowl, 4645 tank	1,000	SPS	2	-	*	E				*			*	F	
5-522	Kohler	Cimarron Comfort Height EL ADA	K-3489	800	SPS	1	3		E	*	*						F	
7-544	Kohler	Cimarron Eco-Smart EL ADA	K-3496-HE: 4286 bowl, 4634-HE tank	350	SPS	2	3		E	*						HET	F	
6-629	Kohler	Cimarron EL ADA	K-3496: 4286 bowl, 4634 tank - NOTE: this fixture is also identified as K-11466 when included as part of the "COMPLETE SOLUTION" package.	800	SPS	2	3		E	*	*						F	
6-628 & 8-555	Kohler	Cimarron RF ADA	K-3497: 4287 bowl, 4634 tank - NOTE: this fixture is also identified as K-11465 when included as part of the "COMPLETE SOLUTION" package.	800	SPS	2	3		R	*	*						F	
6-633	Kohler	Devonshire EL	K-3457: 4269 bowl, 4619 tank	250		2	2		E		*						F	
9-049	Kohler	Devonshire EL ADA	K-3503: 4288 bowl, 4708 tank	1,000	SPS	2	3		E	*	*						F	
5-523	Kohler	Highline Pressure Lite EL	K-3493: 4304 bowl, 4645 tank	800	SPS	2	-	*	E				*				F	
5-524	Kohler	Memoirs EL	K-3451 (Classic tank lid)	800	SPS	1	3		E		*						F	
5-525	Kohler	Memoirs EL	K-3453 (Stately tank lid)	800	SPS	1	3		E		*						F	
6-632	Kohler	Memoirs RF	K-3452: 4257 bowl, 4454-U tank (lined)	250		2	2		R		*						F	
9-050	Kohler	Portrait EL ADA	K-3506 (one-piece)	1,000	SPS	1	3		E	*	*						F	
4-501	Kohler	Purist EL	K-3492 Power-Assisted	800	SPS	1	-	*	E				*				F	
5-506	Kohler	San Raphael Power Lite EL	K-3398 Power-Assisted (DISCONTINUED MODEL-replaced by K-3393)	850	SPS	1	-	*	E				*	HET			F	
7-545	Kohler	San Raphael Power Lite EL ADA	K-3393 Power-Assisted	1,000	SPS	1	-	*	E	*			*-at 1.4-g	HET			F	
	Kohler	Santa Rosa EL	K-3323	500		1	2		E		*						F	
9-051	Kohler	Sterling Karsten Dual Force EL	402028: 402026 bowl, 402023 tank	400	SPS	2	2	*	E		*			HET			F	
8-550	Kohler	Sterling Karsten RF	402025: 402021 bowl, 402023 tank	800	SPS	2	2	*	R		*			HET			F	

Maximum Performance (MaP) of Toilet Fixtures

APPENDIX B - Sorted by Manufacturer

MaP Test Report No.	KEY:			MaP Flush Performance (grams of solid waste removed in a SINGLE flush)	Meets Los Angeles specification (SPS) for water savings sustainability	1-piece or 2-piece model	Flush Valve-Flapper size (in.)	No flapper / Non-traditional flapper	Round Front (R) or Elongated (E) bowl	ADA-Comfort Height-Right Height	1.6G (6L) Gravity-flush	1.6G (6L) Vacuum-Assist	Power OR Pressure-Assisted Full Flush at 1.6-G (6-L)	High-Efficiency Toilets (HETs)			Rear Discharge	Floor-Mounted (F) OR Wall-Mounted (W)
	Flush performance (MaP score)		Dual-Flush											Max 1.1-G (4-L) Pressure-Assist	Max 1.28 G (4.8 L) Gravity			
		Less than 250 grams																
		250 grams to 475 grams																
		500 grams and more																
Type of toilet fixture																		
		6-L (1.6-gal) Pressure- or power-assist																
		4-L (1.1-gal) Pressure-assist																
		Gravity-fed & Vacuum-assist																
	Make	Model Name	Model Number															
6-622	Kohler	Sterling Rockton EL	402027: 402026 bowl, 402022 tank	300	SPS	2	-	*	E		*			HET			F	
	Kohler	Sterling Rockton RF	402024: 402021 bowl, 402022 tank	325	SPS	2	-	*	R		*			HET			F	
6-631	Kohler	Wellworth EL	K-3422: 4276 bowl, 4620 tank	250		2	2		E		*						F	
5-527	Kohler	Wellworth Pressure Lite EL	K-3505: 4303 bowl, 4645 tank	1,000	SPS	2	-		E			*					F	
7-508	Kohler	Wellworth Pressure Lite EL	K-3531: 4303 bowl, 4484 tank	1,000	SPS	2	-		E						HET		F	
6-630	Kohler	Wellworth RF	K3423: 4277 bowl, 4620 tank	300		2	2		R		*						F	
7-509	Kohler	Highline Pressure Lite EL ADA	K-3519: 4304 bowl, 4484 tank	1,000	SPS	2	-	*	E	*					HET		F	
	Komet	Deco RF	DE 627 bowl, DE 611 tank	75		2	2		R		*						F	
	Mancesa	Cyclone 4 EL	2282 bowl, 2281 tank	650	SPS	2	-		E						HET		F	
	Mancesa	St. Michelle RF	2360 bowl, 4260 tank	350		2	2		R		*						F	
8-506	Mancesa/Ceralux	San Marino EL ADA	2262 bowl, 2261 tank	500		2	2		E	*	*						F	
8-505	Mancesa/Ceralux	Windsor RF	2700 bowl, 2711 tank	400		2	2		R		*						F	
	Mansfield	Alto RF	130 bowl, 161 tank	275	SPS	2	-	*	R		*						F	
	Mansfield	EcoQuantum EL	147 bowl, 119 tank	825	SPS	2	-		E			*		HET			F	
	Mansfield	EcoQuantum EL ADA	148 bowl, 119 tank	925	SPS	2	-		E	*		*		HET			F	
	Mansfield	EcoQuantum RF	146 bowl, 119 tank	850	SPS	2	-		R			*		HET			F	
5-503	Mansfield	Magnum EL	722	600		1	3		E		*						F	
	Mansfield	Maverick EL	101 bowl, 102 tank (NOTE: This combination also bears the model no. 645 when sold at Lowe's)	650	d	2	3		E		*						F	
6-648	Mansfield	Montclair EL ADA	107 bowl, 108 tank	550		2	3		E	*	*						F	
9-041	Mansfield	None - EL	101 bowl, 109 tank	1,000	SPS	2	3		E		*						F	
9-040	Mansfield	None - EL ADA	104 bowl, 109 tank	1,000	SPS	2	3		E	*	*						F	
9-042	Mansfield	None - RF	103 bowl, 109 tank	400	SPS	2	3		R		*						F	
	Mansfield	Quantum EL	147 bowl, 123 tank	825	SPS	2	-		E			*					F	
6-647	Mansfield	Quantum EL (rear discharge)	149 bowl, 123 tank	550	SPS	2	-		E				*			*	F	
	Mansfield	Quantum EL ADA	148 bowl, 123 tank	925	SPS	2	-		E	*			*				F	
	Mansfield	Quantum RF	146 bowl, 123 tank	850	SPS	2	-		R			*					F	
	Mansfield	QuantumOne EL	147 bowl, 153 tank	525	SPS	2	-		E						HET		F	
	Mansfield	QuantumOne EL ADA	148 bowl, 153 tank	675	SPS	2	-		E	*					HET		F	
	Mansfield	QuantumOne RF	146 bowl, 153 tank	675	SPS	2	-		R						HET		F	
9-039	Mansfield/Colceramica	Stafford EL	105 bowl, 106 tank	800	SPS	2	3		E		*						F	
9-038	Niagara	Flapperless HET EL	N2228B bowl, N2228T tank	250	SPS	2	-	*	E							HET	F	
9-037	Niagara	Flapperless HET RF	N2225RB bowl, N2225T tank	250	SPS	2	-	*	R							HET	F	
6-644	Niagara	Flapperless Muskoka EL ADA	N2217: 2217 bowl, 2217 tank	600		2	-	*	E	*	*						F	
6-646	Niagara	Flapperless Muskoka RF ADA	N2217R: 2217R bowl, 2217 tank	600		2	-	*	R	*							F	
	Niagara	Flapperless RF	N2216	725	SPS	2	-	*	R		*						F	
6-645	Niagara	Flapperless Superior EL	N2218	600		1	-	*	E	*	*						F	
	Niagara	Niagara Turbo RF	N2220	150	SPS	2	2		R		*						F	

Maximum Performance (MaP) of Toilet Fixtures

APPENDIX B - Sorted by Manufacturer

MaP Test Report No.	Make	Model Name	Model Number	MaP Flush Performance (grams of solid waste removed in a SINGLE flush)	Meets Los Angeles specification (SPS) for water savings sustainability	1-piece or 2-piece model	Flush Valve-Flapper size (in.)	No flapper / Non-traditional flapper	Round Front (R) or Elongated (E) bowl	ADA-Comfort Height-Right Height	1.6G (6L) Gravity-flush	1.6G (6L) Vacuum-Assist	Power OR Pressure-Assisted Full Flush at 1.6-G (6-L)	High-Efficiency Toilets (HETs)			Rear Discharge	Floor-Mounted (F) OR Wall-Mounted (W)
														Dual-Flush	Max 1.1-G (4-L) Pressure-Assist	Max 1.28 G (4.8 L) Gravity		
		Less than 250 grams																
		250 grams to 475 grams																
		500 grams and more																
Type of toilet fixture																		
		6-L (1.6-gal) Pressure- or power-assist																
		4-L (1.1-gal) Pressure-assist																
		Gravity-fed & Vacuum-assist																
	Orion	Iris RF	50073 bowl, 51073 tank	150		2	2		R		*						F	
5-514	Peerless Pottery (by Capizzi)	Predator EL ADA	608 bowl, 1 tank	500	SPS	2	-		E	*						HET	F	
5-512	Peerless Pottery (by Capizzi)	Predator Low Profile EL	606 bowl, 1 tank	400	SPS	2	-		E							HET	F	
8-851	Porcher (American Standard)	Veneto II EL	97220	700	SPS	1	3		E		*						F	
7-529	Quality Craft	Sylvia RF	2301 bowl, 2302 tank	400		2	2		R		*						F	
5-556	RAK Ceramics	Compact Syphonic EL ADA	CT30 bowl, CT65 tank	650		2	3		E	*	*						F	
9-003	RAK Ceramics	Venice EL	VN03 bowl, VN10 tank	500		2	2		E		*			HET			F	
6-601	RAK Ceramics	Washington Syphonic EL	171 bowl, WT20 tank	600		2	3		E		*						F	
9-002	RAK Ceramics	Windsor EL	WE20 bowl, W120 tank	1,000		2	3		E		*						F	
	St. Thomas	Marathon RF	6201.01	200		2	2		R		*						F	
5-516	TOTO	Aquia EL	CST414M: CT414 bowl, ST413M tank	800	SPS	2	2		E		*			HET			F	
	TOTO	Carlyle EL	874	625		1	3		E		*						F	
	TOTO	Carusoe RF	715: C715 bowl, ST706 tank	650		2	2		R		*						F	
	TOTO	Clayton EL ADA (nee Baldwin)	784: C784SF bowl, ST784S tank	675		2	3		E	*	*						F	
	TOTO	CST703 RF	703: C703 bowl, ST703 tank	550		2	2		R		*						F	
	TOTO	Dalton EL ADA	734: C734F bowl, ST733 tank	650		2	2		E	*	*						F	
	TOTO	Drake EL	744: C744 bowl, ST743 tank	900	SPS	2	3		E		*						F	
7-515	TOTO	Neorest EL	600	700	SPS	1	-	*	E		*		*				F	
	TOTO	Plymouth EL	924	675	SPS	1	3		E		*						F	
	TOTO	Ultimate EL	854	325	SPS	1	3		E		*						F	
	TOTO	Ultimate RF	853	400	SPS	1	3		R		*						F	
	TOTO	Ultramax EL	854xxxS	700	SPS	1	3		E		*						F	
	Vitra	Altantis EL	5051 bowl, 6853 tank	750	SPS	2	2		E		*						F	
	Vitra	Altantis RF	5050 bowl, 6853 tank	800	SPS	2	2		R		*						F	
6-627	Vitra	Arkitekt EL ADA	5065 bowl, 5066 tank	500	SPS	2	-	*	E	*					HET		F	
6-608	Vitra	Atlantis EL ADA	5052 bowl, 6853 tank	600	SPS	2	2		E	*	*						F	
6-609	Vitra	Corina Comfort EL ADA	5232 bowl, 5070 tank	1,000		2	3		E	*	*						F	
6-607	Vitra	Corina Dual Flush Comfort EL ADA	5074 bowl, 5055 tank	800	SPS	2	2		E	*	*			HET			F	
	Vitra	Corina EL	5069 bowl, 5070 tank	850	SPS	2	3		E		*						F	
5-551	Vitra	Corina EL (one-piece)	5178	750		1	3		E		*						F	
	Vitra	Corina RF	5068 bowl, 5070 tank	825	SPS	2	3		R		*						F	
5-550	Vitra	Corina RF (one-piece)	5209	850		1	3		R		*						F	
	Vitra	Dual Flush RF	5076 bowl, 5055 tank	475	SPS	2	-	*	R		*			HET			F	
9-048	Vitra	EverGreen EL ADA	5195-xxxx-0075 bowl, 5402-xxxx-5249 tank	600		2	2		E	*						HET	F	
9-047	Vitra	EverGreen RF ADA	5196-xxxx-0075 bowl, 5402-xxxx-5249 tank	800		2	2		R	*						HET	F	
5-536 & 5-548	Vitra	Mona EL	4117 bowl, 4015 tank	800		2	3		E		*						F	
5-537 & 5-549	Vitra	Riva EL	4117 bowl, 6952 tank	700		2	3		E		*						F	
8-503	Vitra	Serenada EL ADA	4219-003-5265	800		1	3		E	*	*						F	

Revised March 29, 2007

© 2004-2007 Veritec Consulting, Inc. and Koeller

Ninth Edition

Maximum Performance (MaP) of Toilet Fixtures

APPENDIX B - Sorted by Manufacturer

MaP Test Report No.	Make	Model Name	Model Number	MaP Flush Performance (grams of solid waste removed in a SINGLE flush)	Meets Los Angeles specification (SPS) for water savings sustainability	1-piece or 2-piece model	Flush Valve-Flapper size (in.)	No flapper / Non-traditional flapper	Round Front (R) or Elongated (E) bowl	ADA-Comfort Height-Right Height	1.6G (6L) Gravity-flush	1.6G (6L) Vacuum-Assist	Power OR Pressure-Assisted Full Flush at 1.6-G (6-L)	High-Efficiency Toilets (HETs)			Rear Discharge	Floor-Mounted (F) OR Wall-Mounted (W)
														Dual-Flush	Max 1.1-G (4-L) Pressure-Assist	Max 1.28 G (4.8 L) Gravity		
	Less than 250 grams																	
	250 grams to 475 grams																	
	500 grams and more																	
Type of toilet fixture																		
	6-L (1.6-gal) Pressure- or power-assist																	
	4-L (1.1-gal) Pressure-assist																	
	Gravity-fed & Vacuum-assist																	
	Vortens-Lamosa	Genova EL	3121 bowl, 3421 tank	450		2	2		E		*						F	
	Vortens-Lamosa	GTA RF	3200 bowl, 3412 tank	300		2	2		R		*						F	
	Vortens-Lamosa	Palermo RF	3126	350		1	2		R		*						F	
5-534	Vortens-Lamosa	Pegasus Tulip EL (Home Depot brand)	3107 bowl, 3427 tank (HD SKU 477-546)	400	SPS	2	-	*	E		*				HET		F	
5-535	Vortens-Lamosa	Rhodus EL ADA	3123 bowl, 3436 or 3433 tank	550	SPS	2	-		E	*	*				HET		F	
5-521	Vortens-Lamosa	Taza Vienna RF (Lined)	3208 bowl, 3464L tank (lined)	550		2	2		R		*						F	
5-520	Vortens-Lamosa	Taza Vienna RF (Unlined)	3208 bowl, 3464V tank (unlined)	600	SPS	2	2		R		*						F	
5-504	Vortens-Lamosa	Tornado EL	3138 bowl, 3468 tank	700	SPS	2	-		E							HET	F	
8-553	Vortens-Lamosa	Tornado EL ADA	3134 bowl, 3468 tank	1,000	SPS	2	-		E	*						HET	F	
	Vortens-Lamosa	Vienna RF Dual Flush	3208 bowl, 3420 tank	375	SPS	2	-	*	R		*				HET		F	
	Vortens-Lamosa	Vienna II RF	3208 bowl, 3412 tank	550		2	2		R		*						F	
	Vortens-Lamosa	Vienna Victory RF	3209 bowl, 3412 tank	550		2	2		R		*						F	
8-552	Vortens-Lamosa	Vienna Victory RF	3209 bowl, 3464 tank	800		2	2		R		*						F	
9-001	Vortens-Lamosa	Vienna Victory RF	3209 bowl, 3464-C tank	500		2	2		R		*						F	
9-052	Vortens-Lamosa	Vienna L EL (pilot fill valve)	3113-3464: 3113 bowl, 3464 tank (or T464R)	800		2	2		E		*						F	
9-053	Vortens-Lamosa	Vienna L EL (ballcock-float arm fill valve)	3113-3464: 3113 bowl, 3464 tank (or T464V)	800		2	2		E		*						F	
	Western Pottery	Aris 822 RF	822 bowl, ULF-8 tank	375	d	2	2		R		*						F	
	Western Pottery	Clinton 832 EL	832 bowl, ULF-8 tank	300	d	2	2		E		*						F	
6-606	Western Pottery	Dual Flush EL	812 DF bowl, ULF-8 DF tank	400		2	2		E		*				HET		F	
5-528	Western Pottery	Hi-Boy Challenger EL	872 bowl, ULF-8 tank	1,000		2	2		E		*						F	
6-637	Zurn	EcoVantage Dual Flush EL	Z5572	800	SPS	2	-	*	E				*		HET		F	
6-639	Zurn	EcoVantage Dual Flush EL ADA	Z5562	1,000	SPS	2	-	*	E	*			*		HET		F	
6-635	Zurn	EcoVantage EL	Z5570	800	SPS	2	-	*	E				*				F	
6-634	Zurn	EcoVantage EL	Z5571	800	SPS	2	-	*	E							HET	F	
7-506	Zurn	EcoVantage EL ADA	Z5551: Z5551 bowl, Z5551 tank	900		2	3		E	*	*						F	
6-640	Zurn	EcoVantage EL ADA	Z5560	1,000	SPS	2	-	*	E	*			*				F	
6-638	Zurn	EcoVantage EL ADA	Z5561	1,000	SPS	2	-	*	E	*						HET	F	
8-509	Zurn	EL	Z5530: Z5510/30 bowl; Z5530/40/50 tank	350		2	2		E		*						F	
8-510	Zurn	EL	Z-HPT/Z5552: Z5552 bowl; Z5551 tank	1,000		2	3		E		*						F	
8-507	Zurn	EL ADA	Z5550: Z5550 bowl; Z5530/40/50 tank	400		2	2		E	*	*						F	
8-508	Zurn	RF	Z5540: Z5520/40 bowl; Z5530/40/50 tank	400		2	2		R		*						F	

Sorted by Performance

NOTE: Fixtures listed above this line do NOT meet the minimum (250 grams) waste removal performance requirements recommended by MaP Testing

Maximum Performance (MaP) of Toilet Fixtures

Sorted by Performance

MaP Test Report No.	Make	Model Name	Model Number	MaP Flush Performance (grams of solid waste removed in a SINGLE flush)	Meets Los Angeles specification (SPS) for water savings sustainability	1-piece or 2-piece model	Flush Valve-Flapper size (in.)	No flapper / Non-traditional flapper	Round Front (R) or Elongated (E) bowl	ADA-Comfort Height-Right Height	1.6G (6L) Gravity-flush	1.6G (6L) Vacuum-Assist	Power OR Pressure-Assisted Full Flush at 1.6-G (6-L)	High-Efficiency Toilets (HETs)			Rear Discharge	Floor-Mounted (F) OR Wall-Mounted (W)
														Dual-Flush	Max 1.1-G (4-L) Pressure-Assist	Max 1.28 G (4.8 L) Gravity		
	American Standard	Sonoma RF	3338 bowl, 4392 tank	325		2	2		R		*							F
	Eljer	Toronto Savoy RF	091-0280: 131-2120 bowl, 141-0260 tank	325		2	2		R		*							F
	Foremost	Premier / Lilas RF	TL-5101-L (lined tank)	325		1	2		R		*							F
	Kohler	Sterling Rockton RF	402024: 402021 bowl, 402022 tank	325	SPS	2	-	*	R		*				HET			F
	TOTO	Ultimate EL	854	325	SPS	1	3		E		*							F
NOTE: Fixtures listed above this line do NOT meet the minimum (350 grams) waste removal performance requirements specified by the U.S. Environmental Protection Agency for their WaterSense Program																		
8-534	Caroma	Sydney 305 EL	609130 bowl, 622320 tank	350	SPS	2	-	*	E		*				HET			F
	Crane	SureFlush RF	31352: 31192 bowl, 31242 tank	350	SPS	2	3	*	R		*							F
	Crane	VIP Flush EL	3996: 3991 bowl, 3976 tank	350	SPS	2	2		E		*		*					F
	Foremost	Regent RF	LL-5207 bowl, T-5207 tank	350		2	2		R		*							F
8-548	HCG	King EL	CS1003 King: C1003 bowl, S352 tank	350		2	3		E		*							F
8-545	HCG	None - RF	CS9002DF: C9002 bowl, S9002DF tank	350		2	2		R		*				HET			F
7-544	Kohler	Cimarron Eco-Smart EL ADA	K-3496-HE: 4286 bowl, 4634-HE tank	350	SPS	2	3		E	*							HET	F
	Mancesa	St. Michelle RF	2360 bowl, 4260 tank	350		2	2		R		*							F
	Vortens-Lamosa	Palermo RF	3126	350		1	2		R		*							F
8-509	Zurn	EL	Z5530: Z5510/30 bowl; Z5530/40/50 tank	350		2	2		E		*							F
	Briggs	Vacuity EL	4200: 4300 bowl, 4400 tank	375		2	2		E			*						F
	Crane	Cranada Pro II / Galaxy Elite II EL	3792: 3372 bowl, 3742 tank	375	SPS	2	2		E		*							F
	Foremost	Premier / Lilas RF	LL-8207 bowl, T-8207 tank	375		2	2		R		*							F
	Vortens-Lamosa	Vienna RF Dual Flush	3208 bowl, 3420 tank	375	SPS	2	-	*	R		*				HET			F
	Western Pottery	Aris 822 RF	822 bowl, ULF-8 tank	375		2	2		R		*							F
7-538	Briggs	Maelstrom RF	4390 bowl, 4490 tank	400		2	3		R		*							F
5-511	Capizzi	Turbo Capizzi Low Profile EL	0478 bowl, 1513 tank	400	SPS	2	-		E								HET	F
8-505	Ceralux/Mancesa	Windsor RF	2700 bowl, 2711 tank	400		2			R		*							F
9-005	Eljer	Toronto Patriot RF	091-2020: 131-2120 bowl; 141-2020 tank	400		2	2		R		*							F
7-505	Eljer	Toronto Savoy EL	091-0265: 131-2125 bowl, 141-0260 tank	400		2	2		E		*							F
7-530	Foremost	Pegasus Collonaide EL ADA	TL-6010-E: LL-6010-E bowl, T-6010 tank	400		2	3		E	*	*							F
5-574	Gerber	Aquasaver EL (one-piece)	21-015	400		1	2		E		*							F
8-546	HCG	None - EL	CS9001DF: C9001 bowl, S9002DF tank	400		2	2		E		*				HET			F
8-547	HCG	None - EL ADA	CS1001: C1001 bowl, S1001 tank	400		2	3		E	*	*							F
8-549	HCG	Queen EL	CS1003 Queen: C1003 bowl, S353 tank	400		2	3		E		*							F
7-530	Home Depot - Pegasus	Collonaide EL ADA	SKU 160-406 bowl, 152-143 tank	400		2	3		E	*	*							F
9-051	Kohler	Sterling Karsten Dual Force EL	402028: 402026 bowl, 402023 tank	400	SPS	2	2	*	E		*				HET			F
8-505	Mancesa/Ceralux	Windsor RF	2700 bowl, 2711 tank	400		2	2		R		*							F
9-042	Mansfield	None - RF	103 bowl, 109 tank	400	SPS	2	3		R		*							F
5-512	Peerless Pottery (by Capizzi)	Predator Low Profile EL	606 bowl, 1 tank	400	SPS	2	-		E								HET	F
5-534	Home Depot - Pegasus	Tulip EL (See Vortens-Lamosa)	SKU 477-546: 3107 bowl, 3427 tank	400	SPS	2	-	*	E		*				HET			F
7-529	Quality Craft	Sylvia RF	2301 bowl, 2302 tank	400		2	2		R		*							F

Maximum Performance (MaP) of Toilet Fixtures

Sorted by Performance

MaP Test Report No.	KEY:			MaP Flush Performance (grams of solid waste removed in a SINGLE flush)	Meets Los Angeles specification (SPS) for water savings sustainability	1-piece or 2-piece model	Flush Valve-Flapper size (in.)	No flapper / Non-traditional flapper	Round Front (R) or Elongated (E) bowl	ADA-Comfort Height-Right Height	1.6G (6L) Gravity-flush	1.6G (6L) Vacuum-Assist	Power OR Pressure-Assisted Full Flush at 1.6-G (6-L)	High-Efficiency Toilets (HETs)			Rear Discharge	Floor-Mounted (F) OR Wall-Mounted (W)
	Flush performance (MaP score)													Dual-Flush	Max 1.1-G (4-L) Pressure-Assist	Max 1.28 G (4.8 L) Gravity		
		Less than 250 grams																
		250 grams to 475 grams																
		500 grams and more																
	Type of toilet fixture																	
	6-L (1.6-gal) Pressure- or power-assist																	
	4-L (1.1-gal) Pressure-assist																	
	Gravity-fed & Vacuum-assist																	
	Make	Model Name	Model Number															
	TOTO	Ultimate RF	853	400	SPS	1	3		R		*						F	
5-534	Vortens-Lamosa	Pegasus Tulip EL (Home Depot brand)	3107 bowl, 3427 tank (HD SKU 477-546)	400	SPS	2	-	*	E		*				HET		F	
6-606	Western Pottery	Dual Flush EL	812 DF bowl, ULF-8 DF tank	400		2	2		E		*				HET		F	
8-507	Zurn	EL ADA	Z5550: Z5550 bowl; Z5530/40/50 tank	400		2	2		E	*	*						F	
8-508	Zurn	RF	Z5540: Z5520/40 bowl; Z5530/40/50 tank	400		2	2		R		*						F	
	Eljer	Patriot EL ADA	131-2175 bowl, 141-0220 tank	425		2	2		E	*	*						F	
	Eljer	Patriot Savoy RF	091-0220: 131-2120 bowl, 141-0220 tank	425		2	2		R		*						F	
	Crane	Crane Pro II / Galaxy Elite II RF	3782: 3352 bowl, 3742 tank	450	SPS	2	2		R		*						F	
	Vortens-Lamosa	Genova EL	3121 bowl, 3421 tank	450		2	2		E		*						F	
	Capizzi	Turbo Capizzi EL	0778 bowl, 1278 tank	475	SPS	2	-		E						HET		F	
	Vitra	Dual Flush RF	5076 bowl, 5055 tank	475	SPS	2	-	*	R		*				HET		F	
	Briggs	Vacuity RF	4210: 4310 bowl, 4400 tank	500		2	2		R			*					F	
5-510	Capizzi	Turbo Capizzi High Profile EL	0478 bowl, 1578 tank	500	SPS	2	-		E						HET		F	
5-513	Capizzi	Turbo Capizzi Low Profile EL ADA	0441 bowl, 1513 tank	500	SPS	2	-		E	*					HET		F	
9-032	Caroma	Caravelle 270 EL	609100 bowl, 629435 tank	500	SPS	2	2	*	E		*				HET		F	
	Caroma	Caravelle 270 RF	989760: 609159 bowl, 629435 tank	500	SPS	2	-	*	R		*				HET		F	
7-526	Caroma	Caravelle 305 EL	609130 bowl, 629435 tank	500	SPS	2	2	*	E		*				HET		F	
	Caroma	Caravelle One-Piece RF	989646	500		1	-	*	R		*				HET		F	
7-527	Caroma	Reflections 270 EL	609100 bowl, 629530 tank	500		2	2	*	E		*				HET		F	
8-535	Caroma	Sydney 305 EL Standard	609151 bowl, 622320 tank	500	SPS	2	-	*	E		*				HET		F	
8-506	Ceralux/Mancesa	San Marino EL ADA	2262 bowl, 2261 tank	500		2	2		E	*	*						F	
	Crane	SureFlush EL	31362: 31202 bowl, 31242 tank	500	SPS	2	3	*	E		*						F	
	Crane	SureFlush EL ADA	31372: 31212 bowl, 31242 tank	500	SPS	2	3	*	E	*	*						F	
	Eljer	Patriot Savoy EL	091-0225: 131-2125 bowl, 141-0220 tank	500		2	2		E		*						F	
9-044	Foremost	Gemini Dual-Flush RF ADA	TL-2100-WL (one-piece)	500		1	2	*	R	*	*				HET		F	
9-022	Gerber	Viper EL	21-514: 21-562 bowl, EH28-594 tank	500	SPS	2	2		E		*						F	
9-012	Gerber	Viper RF	21-500: 21-552 bowl, EH28-595 tank	500	SPS	2	2		R		*						F	
9-016	Gerber	Viper RF	21-504: 21-552 bowl, EH28-594 tank	500	SPS	2	2		R		*						F	
	Kohler	Santa Rosa EL	K-3323	500		1	2		E		*						F	
8-506	Mancesa/Ceralux	San Marino EL ADA	2262 bowl, 2261 tank	500		2	2		E	*	*						F	
5-514	Peerless Pottery (by Capizzi)	Predator EL ADA	608 bowl, 1 tank	500	SPS	2	-		E	*					HET		F	
9-003	RAK Ceramics	Venice EL	VN03 bowl, VN10 tank	500		2	2		E		*				HET		F	
6-627	Vitra	Arkitekt EL ADA	5065 bowl, 5066 tank	500	SPS	2	-	*	E	*					HET		F	
9-001	Vortens-Lamosa	Vienna Victory RF	3209 bowl, 3464-C tank	500		2	2		R		*						F	
	Mansfield	QuantumOne EL	147 bowl, 153 tank	525	SPS	2	-		E						HET		F	
	American Standard	FloWise EL	2073.013: 3018.013 bowl, 4023.013 tank	550	SPS	2	3	*	E							HET	F	
	Caroma	Tasman 270 RF	989860: 609169 bowl, 800032 tank	550	SPS	2	-	*	R		*				HET		F	
	Crane	VIP RF	3997: 3992 bowl, 3976 tank	550		2	2		R			*				*	F	
	Eljer	Aquasaver EL	091-7025: 131-7025 bowl, 141-7000 tank	550	SPS	2	-		E				*				F	

Maximum Performance (MaP) of Toilet Fixtures

Sorted by Performance

MaP Test Report No.				MaP Flush Performance (grams of solid waste removed in a SINGLE flush)	Meets Los Angeles specification (SPS) for water savings sustainability	1-piece or 2-piece model	Flush Valve-Flapper size (in.)	No flapper / Non-traditional flapper	Round Front (R) or Elongated (E) bowl	ADA-Comfort Height-Right Height	1.6G (6L) Gravity-flush	1.6G (6L) Vacuum-Assist	Power OR Pressure-Assisted Full Flush at 1.6-G (6-L)	High-Efficiency Toilets (HETs)			Rear Discharge	Floor-Mounted (F) OR Wall-Mounted (W)
	Make	Model Name	Model Number											Dual-Flush	Max 1.1-G (4-L) Pressure-Assist	Max 1.28 G (4.8 L) Gravity		
KEY:																		
Flush performance (MaP score)																		
	Less than 250 grams																	
	250 grams to 475 grams																	
	500 grams and more																	
Type of toilet fixture																		
	6-L (1.6-gal) Pressure- or power-assist																	
	4-L (1.1-gal) Pressure-assist																	
	Gravity-fed & Vacuum-assist																	
6-648	Mansfield	Montclair EL ADA	107 bowl, 108 tank	550		2	3		E	*	*						F	
6-647	Mansfield	Quantum EL (rear discharge)	149 bowl, 123 tank	550	SPS	2	-		E				*			*	F	
	TOTO	CST703 RF	703: C703 bowl, ST703 tank	550		2	2		R		*						F	
5-535	Vortens-Lamosa	Rhodos EL ADA	3123 bowl, 3436 or 3433 tank	550	SPS	2	-		E	*	*			HET			F	
5-521	Vortens-Lamosa	Taza Vienna RF (Lined)	3208 bowl, 3464L tank (lined)	550		2	2		R		*						F	
	Vortens-Lamosa	Vienna II RF	3208 bowl, 3412 tank	550		2	2		R		*						F	
	Vortens-Lamosa	Vienna Victory RF	3209 bowl, 3412 tank	550		2	2		R		*						F	
8-511	Briggs	Altima III RF	4232: 4320 bowl, 4430 tank	600		2	2		R		*						F	
7-536	Briggs	Maelstrom EL	4395 bowl, 4490 tank	600		2	3		E		*						F	
7-537	Briggs	Maelstrom EL ADA	4398 bowl, 4490 tank	600		2	3		E	*	*						F	
7-513	Caroma	Colonial 270 RF	605310 bowl, 625070 tank	600		2	-	*	R		*			HET			F	
7-524	Caroma	Reflections 305 RF	609151 bowl, 629530 tank	600	SPS	2	2	*	R		*			HET			F	
7-528	Caroma	Royale 270 RF	609159 bowl, 624530 tank	600		2	2	*	R		*			HET			F	
	Caroma	Royale 305 RF	609151 bowl, 624530 tank	600	SPS	2	-	*	R		*			HET			F	
6-605	Duravit	Happy D RF	017009 bowl, 091000-05 tank	600		2	2		R		*			HET		*	W	
6-604	Duravit	Happy D Wallmount RF	017109 bowl, 111.335 in-wall tank (Geberit)	600		2	2		R		*			HET		*	W	
9-007	Eljer	Canterbury EL	081-3025	600		1	3		E		*						F	
7-503	Eljer	Titan EL	091-0755: 131-0755 bowl, 141-0777 tank	600		2	3		E		*						F	
7-504	Eljer	Titan RF	091-0750: 131-0750 bowl, 141-0777 tank	600		2	3		R		*						F	
9-006	Eljer	Toronto Patriot EL	091-2025: 131-2125 bowl; 141-2020 tank	600		2	2		E		*						F	
9-023	Gerber	Viper EL ADA	21-517: 21-528 bowl, 28-595 tank	600		2	2		E	*	*						F	
9-027	Gerber	Viper EL ADA	21-524: 21-528 bowl, 28-594 tank	600		2	2		E	*	*						F	
9-028	Gerber	Viper EL ADA	21-524: 21-528 bowl, EH28-594 tank	600	SPS	2	2		E	*	*						F	
9-011	Gerber	Viper RF	21-500: 21-552 bowl, 28-595 tank	600		2	2		R		*						F	
9-013	Gerber	Viper RF	21-502: 21-552 bowl, 28-590 tank	600		2	2		R		*						F	
9-014	Gerber	Viper RF	21-502: 21-552 bowl, EH28-590 tank	600	SPS	2	2		R		*						F	
9-015	Gerber	Viper RF	21-504: 21-552 bowl, 28-594 tank	600		2	2		R		*						F	
5-503	Mansfield	Magnum EL	722	600		1	3		E		*						F	
6-644	Niagara	Flapperless Muskoka EL ADA	N2217: 2217 bowl, 2217 tank	600		2	-	*	E	*	*						F	
6-646	Niagara	Flapperless Muskoka RF ADA	N2217R: 2217R bowl, 2217 tank	600		2	-	*	R	*	*						F	
6-645	Niagara	Flapperless Superior EL	N2218	600		1	-	*	E	*	*						F	
6-601	RAK Ceramics	Washington Syphonic EL	171 bowl, WT20 tank	600		2	3		E		*						F	
6-608	Vitra	Atlantis EL ADA	5052 bowl, 6853 tank	600	SPS	2	2		E	*	*						F	
9-048	Vitra	EverGreen EL ADA	5195-xxxx-0075 bowl, 5402-xxxx-5249 tank	600		2	2		E	*	*					HET	F	
5-520	Vortens-Lamosa	Taza Vienna RF (Unlined)	3208 bowl, 3464V tank (unlined)	600	SPS	2	2		R		*						F	
	Gerber	Ultra Flush (rear discharge)	21-310: 21-374 bowl, 28-380 tank	625	SPS	2	-		E				*			*	F	
	TOTO	Carlyle EL	874	625		1	3		E		*						F	
5-558	American Standard	Champion EL (one-piece)	2004	650	SPS	1	3		E		*						F	
	Briggs	Vacuity EL	4245: 4345 bowl, 4400 tank	650		2	2		E			*				*	F	

Maximum Performance (MaP) of Toilet Fixtures

Sorted by Performance

MaP Test Report No.				MaP Flush Performance (grams of solid waste removed in a SINGLE flush)	Meets Los Angeles specification (SPS) for water savings sustainability	1-piece or 2-piece model	Flush Valve-Flapper size (in.)	No flapper / Non-traditional flapper	Round Front (R) or Elongated (E) bowl	ADA-Comfort Height-Right Height	1.6G (6L) Gravity-flush	1.6G (6L) Vacuum-Assist	Power OR Pressure-Assisted Full Flush at 1.6-G (6-L)	High-Efficiency Toilets (HETs)			Rear Discharge	Floor-Mounted (F) OR Wall-Mounted (W)
	Make	Model Name	Model Number											Dual-Flush	Max 1.1-G (4-L) Pressure-Assist	Max 1.28 G (4.8 L) Gravity		
KEY: Flush performance (MaP score) Less than 250 grams 250 grams to 475 grams 500 grams and more Type of toilet fixture 6-L (1.6-gal) Pressure- or power-assist 4-L (1.1-gal) Pressure-assist Gravity-fed & Vacuum-assist																		
5-508	Caroma	Caravelle 305 RF	989680: 609151 bowl, 629435 tank	650	SPS	2	-	*	R		*			HET			F	
5-507	Caroma	Reflections 270 RF	989720: 609159 bowl , 629530 tank	650	SPS	2	-	*	R		*			HET			F	
	Mancesa	Cyclone 4 EL	2282 bowl, 2281 tank	650	SPS	2	-		E						HET		F	
	Mansfield	Maverick EL	101 bowl, 102 tank (NOTE: This combination also bears the model no. 645 when sold at Lowe's)	650		2	3		E		*						F	
5-556	RAK Ceramics	Compact Syphonic EL ADA	CT30 bowl, CT65 tank	650		2	3		E	*	*						F	
	TOTO	Carusoe RF	715: C715 bowl, ST706 tank	650		2	2		R		*						F	
	TOTO	Dalton EL ADA	734: C734F bowl, ST733 tank	650		2	2		E	*	*						F	
	Mansfield	QuantumOne EL ADA	148 bowl, 153 tank	675	SPS	2	-		E	*					HET		F	
	Mansfield	QuantumOne RF	146 bowl, 153 tank	675	SPS	2	-		R						HET		F	
	TOTO	Clayton EL ADA(nee Baldwin)	784: C784SF bowl, ST784S tank	675		2	3		E	*	*						F	
	TOTO	Plymouth EL	924	675	SPS	1	3		E		*						F	
	Briggs	Hathaway Vacuity EL	4360 bowl, 4460 tank	700		2	2		E			*					F	
8-536	Caroma	Adelaide 270 Cube EL	834000 bowl, 814790 tank	700	SPS	2	-	*	E		*			HET			F	
8-537	Caroma	Adelaide 270 Standard EL	834000 bowl, 814328 tank	700	SPS	2	-	*	E		*			HET			F	
8-530	Foremost	Moline EL	TL-8267-L: LL-8267 bowl, T-8267 tank (lined)	700		2	2.5		E		*						F	
8-851	Porcher (American Standard)	Veneto II EL	97220	700	SPS	1	3		E		*						F	
7-515	TOTO	Neorest EL	600	700	SPS	1	-	*	E		*		*				F	
	TOTO	Ultramax EL	854xxxS	700	SPS	1	3		E		*						F	
5-537 & 5-549	Vitra	Riva EL	4117 bowl, 6952 tank	700		2	3		E		*						F	
5-504	Vortens-Lamosa	Tornado EL	3138 bowl, 3468 tank	700	SPS	2	-		E						HET		F	
	Crane	Economiser EL	3835: 3825 bowl, 3612 tank	725	SPS	2	-		E				*				F	
	Crane	VIP Flush RF	3995: 3990 bowl, 3976 tank	725	SPS	2	2		R			*					F	
	Niagara	Flapperless RF	N2216	725	SPS	2	-	*	R		*						F	
	American Standard	Cadet EL	2333: 4098 tank, 3099 bowl	750	SPS	2	-		E				*				F	
	Crane	Economiser RF	3834: 3824 bowl, 3612 tank	750	SPS	2	-		R				*				F	
	Vitra	Altantis EL	5051 bowl, 6853 tank	750	SPS	2	2		E		*						F	
5-551	Vitra	Corina EL (one-piece)	5178	750		1	3		E		*						F	
	American Standard	Colony / Afton RF	4392.016 tank, 3038 bowl	775		2	2		R		*						F	
	American Standard	Colony / Afton RF (lined tank)	4392.500 LINED tank, 3038 bowl	775		2	2		R		*						F	
7-521	American Standard	Cadet 3 EL (10" rough-in)	2383.010: 3014 bowl, 4019 tank	800	SPS	2	3		E		*						F	
7-541	American Standard	Cadet 3 EL (12" rough-in)	3014 bowl, 4021.500 LINED tank	800	SPS	2	3		E		*						F	
5-538	American Standard	Champion EL ADA (one-piece)	2034	800	SPS	1	3	*	E	*	*						F	
	American Standard	Champion RF	2023: 3110 bowl, 4260 tank	800	SPS	2	3	*	R		*						F	
5-547	American Standard	Champion Select RF	2035: 3110 bowl, 4272 tank	800	SPS	2	3	*	R		*						F	
5-541	American Standard	Doral Champion RF	2369: 3110 bowl, 4272 tank	800	SPS	2	3	*	R		*						F	
5-544	American Standard	Doral Classic/Williamsburg RF	2076: 3110 bowl, 4172.016 tank	800	SPS	2	3	*	R		*						F	
	American Standard	Glenwall EL	3402 bowl, 4098 tank	800	SPS	2	-		E				*			*	W	

Maximum Performance (MaP) of Toilet Fixtures

Sorted by Performance

MaP Test Report No.				MaP Flush Performance (grams of solid waste removed in a SINGLE flush)	Meets Los Angeles specification (SPS) for water savings sustainability	1-piece or 2-piece model	Flush Valve-Flapper size (in.)	No flapper / Non-traditional flapper	Round Front (R) or Elongated (E) bowl	ADA-Comfort Height-Right Height	1.6G (6L) Gravity-flush	1.6G (6L) Vacuum-Assist	Power OR Pressure-Assisted Full Flush at 1.6-G (6-L)	High-Efficiency Toilets (HETs)			Rear Discharge	Floor-Mounted (F) OR Wall-Mounted (W)
	Make	Model Name	Model Number											Dual-Flush	Max 1.1-G (4-L) Pressure-Assist	Max 1.28 G (4.8 L) Gravity		
KEY: Flush performance (MaP score) Less than 250 grams 250 grams to 475 grams 500 grams and more Type of toilet fixture 6-L (1.6-gal) Pressure- or power-assist 4-L (1.1-gal) Pressure-assist Gravity-fed & Vacuum-assist																		
8-538	Caroma	Caravelle 1-Piece Easy Height EL ADA	989670	800	SPS	1	-	*	E	*	*			HET			F	
7-525	Caroma	Caravelle 270 EL ADA	609120 bowl, 629435 tank	800	SPS	2	2	*	E	*	*			HET			F	
5-509	Caroma	Caravelle 270 RF ADA	989770: 609177 bowl, 629435 tank	800	SPS	2	-	*	R	*	*			HET			F	
9-009	Eljer	Power 1-G EL	091-7625: 131-7625 bowl; 141-7600 tank	800	SPS	2	-		E						HET		F	
9-010	Eljer	Power 1-G EL ADA	091-7675: 131-7675 bowl; 141-7600 tank	800	SPS	2	-		E	*					HET		F	
9-004	Eljer	Toronto Patriot EL ADA	091-2075: 131-2175 bowl; 141-2020 tank	800		2	2		E	*	*						F	
8-539	Foremost	Gemini Dual-Flush RF	TL-2005-L: LL-2005 bowl, T-2005-L tank (lined)	800		2	2	*	R		*			HET			F	
8-540	Foremost	Pegasus Dual-Flush RF	SKU 131-926	800		2	2	*	R		*			HET			F	
5-559	Gerber	Ultra Flush EL ADA	EF-21-318: 21-377 bowl, EF-28-380 tank	800	SPS	2	-		E	*					HET		F	
5-563	Gerber	Ultra Flush EL ADA	EF-21-312: 21-372 bowl, EF-28-380 tank	800	SPS	2	-		E	*					HET		F	
5-576	Gerber	Ultra Flush EL ADA	EF-21-314: 21-372 bowl, EF-28-384 tank	800	SPS	2	-		E	*					HET		F	
5-584	Gerber	Ultra Flush EL ADA	EF-21-324: 21-372 bowl, EF-28-384 tank	800	SPS	2	-		E	*					HET		F	
5-566	Gerber	Ultra Flush EL ADA (rear discharge)	EF-21-325: 21-375 bowl, EF-28-380 tank	800	SPS	2	-		E	*					HET	*	F	
5-559	Gerber	Ultra Flush EL ADA (w/bedpan lugs)	EF-21-319: 21-329 bowl, EF-28-390 tank	800	SPS	2	-		E	*					HET		F	
9-017	Gerber	Viper EL	21-510: 21-562 bowl, 28-595 tank	800		2	2		E		*						F	
9-018	Gerber	Viper EL	21-510: 21-562 bowl, EH28-595 tank	800	SPS	2	2		E		*						F	
9-019	Gerber	Viper EL	21-512: 21-562 bowl, 28-590 tank	800		2	2		E		*						F	
9-020	Gerber	Viper EL	21-512: 21-562 bowl, EH28-590 tank	800	SPS	2	2		E		*						F	
9-021	Gerber	Viper EL	21-514: 21-562 bowl, 28-594 tank	800		2	2		E		*						F	
9-024	Gerber	Viper EL ADA	21-517: 21-528 bowl, EH28-595 tank	800	SPS	2	2		E	*	*						F	
9-025	Gerber	Viper EL ADA	21-518: 21-528 bowl, 28-590 tank	800		2	2		E	*	*						F	
9-026	Gerber	Viper EL ADA	21-518: 21-528 bowl, EH28-590 tank	800	SPS	2	2		E	*	*						F	
8-540	Home Depot - Pegasus	Dual-Flush RF	SKU 131-926	800		2	-		R		*			HET			F	
8-541	Jacuzzi	Era Collection EL ADA	BK37959 (sold as a set)	800		2	3		E	*	*						F	
8-554	Jacuzzi	ERA Toilet "in a box" EL ADA	BK37959	800		2	3		E	*	*						F	
8-542	Jacuzzi	Perfecta RF ADA	BN31959 (sold as a set)	800		2	3		R	*	*						F	
5-526	Kohler	Bancroft Comfort Height EL ADA	K-3487: 4281 bowl, 4633 tank	800	SPS	2	3		E	*	*						F	
5-522	Kohler	Cimarron Comfort Height EL ADA	K-3489	800	SPS	1	3		E	*	*						F	
6-629	Kohler	Cimarron EL ADA	K-3496: 4286 bowl, 4634 tank - NOTE: this fixture is also identified as K-11466 when included as part of the "COMPLETE SOLUTION" package.	800	SPS	2	3		E	*	*						F	
6-628 & 8-555	Kohler	Cimarron RF ADA	K-3497: 4287 bowl, 4634 tank - NOTE: this fixture is also identified as K-11465 when included as part of the "COMPLETE SOLUTION" package.	800	SPS	2	3		R	*	*						F	
5-523	Kohler	Highline Pressure Lite EL	K-3493: 4304 bowl, 4645 tank	800	SPS	2	-	*	E			*					F	
5-524	Kohler	Memoirs EL	K-3451 (Classic tank lid)	800	SPS	1	3		E		*						F	
5-525	Kohler	Memoirs EL	K-3453 (Stately tank lid)	800	SPS	1	3		E		*						F	
4-501	Kohler	Purist EL	K-3492 Power-Assisted	800	SPS	1	-	*	E				*				F	
8-550	Kohler	Sterling Karsten RF	402025: 402021 bowl, 402023 tank	800	SPS	2	2	*	R		*			HET			F	

Maximum Performance (MaP) of Toilet Fixtures

Sorted by Performance

MaP Test Report No.				MaP Flush Performance (grams of solid waste removed in a SINGLE flush)	Meets Los Angeles specification (SPS) for water savings sustainability	1-piece or 2-piece model	Flush Valve-Flapper size (in.)	No flapper / Non-traditional flapper	Round Front (R) or Elongated (E) bowl	ADA-Comfort Height-Right Height	1.6G (6L) Gravity-flush	1.6G (6L) Vacuum-Assist	Power OR Pressure-Assisted Full Flush at 1.6-G (6-L)	High-Efficiency Toilets (HETs)			Rear Discharge	Floor-Mounted (F) OR Wall-Mounted (W)			
		Make	Model Name											Model Number	Dual-Flush	Max 1.1-G (4-L) Pressure-Assist			Max 1.28 G (4.8 L) Gravity		
KEY: Flush performance (MaP score)		Less than 250 grams 250 grams to 475 grams 500 grams and more	Type of toilet fixture		6-L (1.6-gal) Pressure- or power-assist 4-L (1.1-gal) Pressure-assist Gravity-fed & Vacuum-assist																
Make		Model Name		Model Number																	
9-039	Mansfield/Colceramica	Stafford EL	105 bowl, 106 tank	800	SPS	2	3		E		*					HET			F		
5-516	TOTO	Aqua EL	CST414M: CT414 bowl, ST413M tank	800	SPS	2	2		E		*					HET			F		
	Vitra	Altantis RF	5050 bowl, 6853 tank	800	SPS	2	2		R		*								F		
6-607	Vitra	Corina Dual Flush Comfort EL ADA	5074 bowl, 5055 tank	800	SPS	2	2		E	*	*					HET			F		
9-047	Vitra	EverGreen RF ADA	5196-xxxx-0075 bowl, 5402-xxxx-5249 tank	800		2	2		R	*							HET		F		
5-536 & 5-548	Vitra	Mona EL	4117 bowl, 4015 tank	800		2	3		E		*								F		
8-503	Vitra	Serenada EL ADA	4219-003-5265	800		1	3		E	*	*								F		
9-053	Vortens-Lamosa	Vienna L EL (ballcock-float arm fill valve)	3113-3464: 3113 bowl, 3464 tank (or T464V)	800		2	2		E		*								F		
9-052	Vortens-Lamosa	Vienna L EL (pilot fill valve)	3113-3464: 3113 bowl, 3464 tank (or T464R)	800		2	2		E		*								F		
8-552	Vortens-Lamosa	Vienna Victory RF	3209 bowl, 3464 tank	800		2	2		R		*								F		
6-637	Zurn	EcoVantage Dual Flush EL	Z5572	800	SPS	2	-	*	E				*	HET					F		
6-635	Zurn	EcoVantage EL	Z5570	800	SPS	2	-	*	E				*						F		
6-634	Zurn	EcoVantage EL	Z5571	800	SPS	2	-	*	E								HET		F		
	Mansfield	EcoQuantum EL	147 bowl, 119 tank	825	SPS	2	-		E				*	HET					F		
	Mansfield	Quantum EL	147 bowl, 123 tank	825	SPS	2	-		E				*						F		
	Vitra	Corina RF	5068 bowl, 5070 tank	825	SPS	2	3		R		*								F		
7-514	Caroma	Royale 270 EL ADA	609120 bowl, 624530 tank	850	SPS	2	-	*	E	*	*			HET					F		
5-519	Caroma	Royale 305 EL	609130 bowl, 629530 tank	850		2	-	*	E		*			HET					F		
	Foremost	Premier / Lilas EL ADA	LL-8207-HC bowl, T-8207 tank	850		2	2		E	*	*								F		
5-506	Kohler	San Raphael Power Lite EL	K-3398 Power-Assisted (DISCONTINUED MODEL-replaced by K-3393)	850	SPS	1	-	*	E				*	HET					F		
	Mansfield	EcoQuantum RF	146 bowl, 119 tank	850	SPS	2	-		R				*	HET					F		
	Mansfield	Quantum RF	146 bowl, 123 tank	850	SPS	2	-		R				*						F		
	Vitra	Corina EL	5069 bowl, 5070 tank	850	SPS	2	3		E		*								F		
5-550	Vitra	Corina RF (one-piece)	5209	850		1	3		R		*								F		
	Eljer	Titan EL ADA	091-0777: 131-0777 bowl, 141-0777 tank	900		2	3		E	*	*								F		
	Gerber	Ultra Flush EL	21-302: 21-342 bowl, 28-380 tank	900	SPS	2	-		E				*						F		
6-617	Gerber	Ultra Flush RF	21-300: 21-342 bowl, 28-385 tank	900	SPS	2	-		R				*						F		
6-618	Gerber	Ultra Flush RF	21-304: 21-342 bowl, 28-384 tank	900	SPS	2	-		R				*						F		
	TOTO	Drake EL	744: C744 bowl, ST743 tank	900	SPS	2	3		E		*								F		
7-506	Zurn	EcoVantage EL ADA	Z5551: Z5551 bowl, Z5551 tank	900		2	3		E	*	*								F		
	Mansfield	EcoQuantum EL ADA	148 bowl, 119 tank	925	SPS	2	-		E	*			*	HET					F		
	Mansfield	Quantum EL ADA	148 bowl, 123 tank	925	SPS	2	-		E	*			*						F		
6-641	American Standard	Cadet 3 EL (12" rough-in)	2383.012: 3014 bowl, 4021 tank (unlined)	1,000	SPS	2	3	*	E		*								F		
7-520	American Standard	Cadet 3 EL (14" rough-in)	2383.014: 3014 bowl, 4027 tank	1,000	SPS	2	3		E		*								F		
7-518	American Standard	Cadet 3 EL ADA (10" rough-in)	2386.010: 3016 bowl, 4019 tank	1,000	SPS	2	3		E	*	*								F		
7-523	American Standard	Cadet 3 EL ADA (12" rough-in)	2386.012: 3016 bowl, 4021 tank (unlined)	1,000	SPS	2	3		E	*	*								F		
7-542	American Standard	Cadet 3 EL ADA (12" rough-in)	3016 bowl, 4021.500 LINED tank	1,000	SPS	2	3		E	*	*								F		

Maximum Performance (MaP) of Toilet Fixtures

Sorted by Performance

MaP Test Report No.	KEY:			MaP Flush Performance (grams of solid waste removed in a SINGLE flush)	Meets Los Angeles specification (SPS) for water savings sustainability	1-piece or 2-piece model	Flush Valve-Flapper size (in.)	No flapper / Non-traditional flapper	Round Front (R) or Elongated (E) bowl	ADA-Comfort Height-Right Height	1.6G (6L) Gravity-flush	1.6G (6L) Vacuum-Assist	Power OR Pressure-Assisted Full Flush at 1.6-G (6-L)	High-Efficiency Toilets (HETs)			Rear Discharge	Floor-Mounted (F) OR Wall-Mounted (W)
	Flush performance (MaP score)													Dual-Flush	Max 1.1-G (4-L) Pressure-Assist	Max 1.28 G (4.8 L) Gravity		
		Less than 250 grams																
		250 grams to 475 grams																
		500 grams and more																
	Type of toilet fixture																	
	6-L (1.6-gal) Pressure- or power-assist																	
	4-L (1.1-gal) Pressure-assist																	
	Gravity-fed & Vacuum-assist																	
Make	Model Name	Model Number																
7-516	American Standard	Cadet 3 EL ADA (14" rough-in)	2386.014: 3016 bowl, 4027 tank	1,000	SPS	2	3		E	*	*						F	
7-517	American Standard	Cadet 3 RF (10" rough-in)	2384.010: 3011 bowl, 4019 tank	1,000	SPS	2	3		R		*						F	
7-522	American Standard	Cadet 3 RF (12" rough-in)	2384.012: 3011 bowl, 4021 tank	1,000	SPS	2	3		R		*						F	
7-543	American Standard	Cadet 3 RF (12" rough-in)	3011 bowl, 4021.500 LINED tank	1,000	SPS	2	3		R		*						F	
7-519	American Standard	Cadet 3 RF (14" rough-in)	2384.014: 3011 bowl, 4027 tank	1,000	SPS	2	3		R		*						F	
	American Standard	Champion EL	2018: 3121 bowl, 4260 tank	1,000	SPS	2	3	*	E		*						F	
5-502	American Standard	Champion Right Height EL ADA	2002: 3225 bowl, 4260 tank	1,000	SPS	2	3	*	E	*	*						F	
5-546	American Standard	Champion Select EL	2087: 3121 bowl, 4272 tank	1,000	SPS	2	3	*	E		*						F	
5-545	American Standard	Champion Select EL ADA	2057: 3225 bowl, 4272 tank	1,000	SPS	2	3	*	E	*	*						F	
5-540	American Standard	Doral Champion EL	2368: 3121 bowl, 4272 tank	1,000	SPS	2	3	*	E		*						F	
5-539	American Standard	Doral Champion EL ADA	2367: 3225 bowl, 4272 tank	1,000	SPS	2	3	*	E	*	*						F	
5-543	American Standard	Doral Classic/Williamsburg EL	2074: 3121 bowl, 4172.016 tank	1,000	SPS	2	3	*	E		*						F	
5-542	American Standard	Doral Classic/Williamsburg EL ADA	2058: 3225 bowl, 4172.016 tank	1,000	SPS	2	3	*	E	*	*						F	
5-531	American Standard	Oakmont Champion EL ADA	2738: 3101 bowl, 4272 tank	1,000	SPS	2	3	*	E	*	*						F	
5-532	American Standard	Oakmont Champion EL	2625: 3153 bowl, 4272 tank	1,000	SPS	2	3	*	E		*						F	
5-503	American Standard	Oakmont Champion RF	2627: 3167 bowl, 4272 tank	1,000	SPS	2	3	*	R		*						F	
6-642	American Standard	Skyline Champion EL ADA	3225 bowl, 4077 tank	1,000	SPS	2	3	*	E	*	*						F	
6-643	American Standard	Skyline Champion RF	3110 bowl, 4077 tank	1,000	SPS	2	3	*	R		*						F	
5-529	American Standard	Townsend Champion EL ADA	2733: 3177 bowl, 4281 tank	1,000	SPS	2	3	*	E	*	*						F	
5-533	American Standard	Townsend Champion RF ADA	2735: 3180 bowl, 4281 tank	1,000	SPS	2	3	*	R	*	*						F	
	American Standard	Yorkville EL	2320: 3120 bowl, 4099 tank	1,000	SPS	2	-		E				*			*	F	
8-533	Caroma	Sydney 270 EL ADA	609120 bowl, 622320 tank	1,000	SPS	2	-	*	E	*	*			HET			F	
8-527	Duravit	Caro EL	010101 bowl; 092410 tank	1,000		2	3		E		*						F	
8-526	Duravit	Duraplus EL	010201 bowl; 092510 tank	1,000		2	3		E		*						F	
9-008	Eljer	PR Titan RF	081-0750	1,000		1	3		R		*						F	
8-514	Eljer	Titan EL	081-0755	1,000		1	3		E		*						F	
8-515	Eljer	Titan EL ADA	081-0777	1,000		1	3		E	*	*						F	
8-518	Eljer	Titan Elite EL	091-2755: 131-0755 bowl; 141-2777 tank	1,000		2	3		E		*						F	
8-521	Eljer	Titan Elite EL ADA	091-2777: 131-0777 bowl; 141-2777 tank	1,000		2	3		E	*	*						F	
8-516	Eljer	Titan Elite RF	091-2750: 131-0750 bowl; 141-2777 tank	1,000		2	3		R		*						F	
8-519	Eljer	Titan Triangle EL	091-3750: 131-0755 bowl; 141-3777 tank	1,000		2	3		E		*						F	
8-520	Eljer	Titan Triangle EL ADA	091-3777: 131-0777 bowl; 141-3777 tank	1,000		2	3		E	*	*						F	
8-517	Eljer	Titan Triangle RF	091-3750: 131-0750 bowl; 141-3777 tank	1,000		2	3		R		*						F	
7-534	Eljer	Toronto Savoy EL ADA	091-1265: 131-2175 bowl, 141-0260 tank	1,000		2	2		E	*	*						F	
9-046	Foremost	Pegasus EL ADA	SKU 464-747 (one-piece)	1,000		1	2		E	*	*						F	
9-045	Foremost	Tuxedo EL ADA	TL-5300E-WL (one-piece)	1,000		1	2		E	*	*						F	
9-029	Gerber	Avalanche EL ADA	21-817: 21-828 bowl, 28-895 tank	1,000	SPS	2	3		E	*	*						F	
9-030	Gerber	Avalanche EL ADA	21-818: 21-828 bowl, 28-890 tank	1,000	SPS	2	3		E	*	*						F	
9-031	Gerber	Avalanche EL ADA	21-824: 21-828 bowl, 28-894 tank	1,000	SPS	2	3		E	*	*						F	

Maximum Performance (MaP) of Toilet Fixtures

Sorted by Performance

MaP Test Report No.		KEY:		MaP Flush Performance (grams of solid waste removed in a SINGLE flush)	Meets Los Angeles specification (SPS) for water savings sustainability	1-piece or 2-piece model	Flush Valve-Flapper size (in.)	No flapper / Non-traditional flapper	Round Front (R) or Elongated (E) bowl	ADA-Comfort Height-Right Height	1.6G (6L) Gravity-flush	1.6G (6L) Vacuum-Assist	Power OR Pressure-Assisted Full Flush at 1.6-G (6-L)	High-Efficiency Toilets (HETs)			Rear Discharge	Floor-Mounted (F) OR Wall-Mounted (W)
		Flush performance (MaP score)												Dual-Flush	Max 1.1-G (4-L) Pressure-Assist	Max 1.28 G (4.8 L) Gravity		
			Less than 250 grams															
			250 grams to 475 grams															
			500 grams and more															
Type of toilet fixture			6-L (1.6-gal) Pressure- or power-assist															
			4-L (1.1-gal) Pressure-assist															
			Gravity-fed & Vacuum-assist															
Make	Model Name	Model Number																
5-564	Gerber	Ultra Dual Flush EL	DF-21-312: 21-372 bowl, DF-28-380 tank	1,000	SPS	2	-		E				*	HET			F	
5-580	Gerber	Ultra Dual Flush EL	DF-21-314: 21-372 bowl, DF-28-384 tank	1,000	SPS	2	-		E				*	HET			F	
5-560	Gerber	Ultra Dual Flush EL ADA	DF 21-318: 21-377 bowl, DF-28-380 tank	1,000	SPS	2	-		E	*			*	HET			F	
5-586	Gerber	Ultra Dual Flush EL ADA	DF-21-324: 21-377 bowl, DF-28-384 tank	1,000	SPS	2	-		E	*			*	HET			F	
5-567	Gerber	Ultra Dual Flush EL ADA (rear discharge)	DF-21-325: 21-375 bowl, DF-28-380 tank	1,000	SPS	2	-		E	*			*	HET		*	F	
5-560	Gerber	Ultra Dual Flush EL ADA (w/bedpan lugs)	DF 21-319: 21-329 bowl, DF-28-390 tank	1,000	SPS	2	-		E	*			*	HET			F	
6-616	Gerber	Ultra Dual Flush RF	DF-21-302: 21-342 bowl, DF-28-380 tank	1,000	SPS	2			R				*	HET			F	
6-620	Gerber	Ultra Dual Flush RF	DF-21-304: 21-342 bowl, DF-28-384 tank	1,000	SPS	2	-		R				*	HET			F	
5-562	Gerber	Ultra Flush EL	21-312: 21-372 bowl , 28-380 tank	1,000	SPS	2	-		E				*				F	
5-578	Gerber	Ultra Flush EL	21-314: 21-372 bowl , 28-384 tank	1,000	SPS	2	-		E				*				F	
5-577	Gerber	Ultra Flush EL ADA	21-311: 21-372 bowl, 28-385 tank	1,000	SPS	2	-		E	*			*				F	
5-581	Gerber	Ultra Flush EL ADA	21-317: 21-377 bowl, 28-385 tank	1,000	SPS	2	-		E	*			*				F	
5-561	Gerber	Ultra Flush EL ADA	21-318: 21-377 bowl, 28-380 tank	1,000	SPS	2	-		E	*			*				F	
5-582	Gerber	Ultra Flush EL ADA	21-324: 21-377 bowl, 28-384 tank	1,000	SPS	2	-		E	*			*				F	
5-565	Gerber	Ultra Flush EL ADA (rear discharge)	21-325: 21-375 bowl, 28-380 tank	1,000	SPS	2	-		E	*			*			*	F	
6-615	Gerber	Ultra Flush RF	EF-21-302: 21-342 bowl, EF-28-380 tank	1,000	SPS	2	-		R						HET		F	
6-619	Gerber	Ultra Flush RF	EF-21-304: 21-342 bowl, EF-28-384 tank	1,000	SPS	2	-		R						HET		F	
8-512	Jacuzzi	Maxima EL ADA	DP55959 bowl, EL61959 tank	1,000		2	3		E	*	*						F	
6-603	Kohler	Barrington Pressure Lite EL	K-3554: 4327 bowl, 4645 tank	1,000	SPS	2	-	*	E				*			*	F	
9-049	Kohler	Devonshire EL ADA	K-3503: 4288 bowl, 4708 tank	1,000	SPS	2	3		E	*	*						F	
9-050	Kohler	Portrait EL ADA	K-3506 (one-piece)	1,000	SPS	1	3		E	*	*						F	
7-545	Kohler	San Raphael Power Lite EL ADA	K-3393 Power-Assisted	1,000	SPS	1	-	*	E	*			*-at 1.4-g	HET			F	
5-527	Kohler	Wellworth Pressure Lite EL	K-3505: 4303 bowl, 4645 tank	1,000	SPS	2	-		E				*				F	
7-508	Kohler	Wellworth Pressure Lite EL	K-3531: 4303 bowl, 4484 tank	1,000	SPS	2	-		E						HET		F	
7-509	Kohler	Highline Pressure Lite EL ADA	K-3519: 4304 bowl, 4484 tank	1,000	SPS	2	-	*	E	*					HET		F	
9-041	Mansfield	None - EL	101 bowl, 109 tank	1,000	SPS	2	3		E		*						F	
9-040	Mansfield	None - EL ADA	104 bowl, 109 tank	1,000	SPS	2	3		E	*	*						F	
9-002	RAK Ceramics	Windsor EL	WE20 bowl, W120 tank	1,000		2	3		E		*						F	
6-609	Vitra	Corina Comfort EL ADA	5232 bowl, 5070 tank	1,000		2	3		E	*	*						F	
8-553	Vortens-Lamosa	Tornado EL ADA	3134 bowl, 3468 tank	1,000	SPS	2	-		E	*					HET		F	
5-528	Western Pottery	Hi-Boy Challenger EL	872 bowl, ULF-8 tank	1,000		2	2		E		*						F	
6-639	Zurn	EcoVantage Dual Flush EL ADA	Z5562	1,000	SPS	2	-	*	E	*			*	HET			F	
6-640	Zurn	EcoVantage EL ADA	Z5560	1,000	SPS	2	-	*	E	*			*				F	
6-638	Zurn	EcoVantage EL ADA	Z5561	1,000	SPS	2	-	*	E	*					HET		F	
8-510	Zurn	EL	Z-HPT/Z5552: Z5552 bowl; Z5551 tank	1,000		2	3		E		*						F	