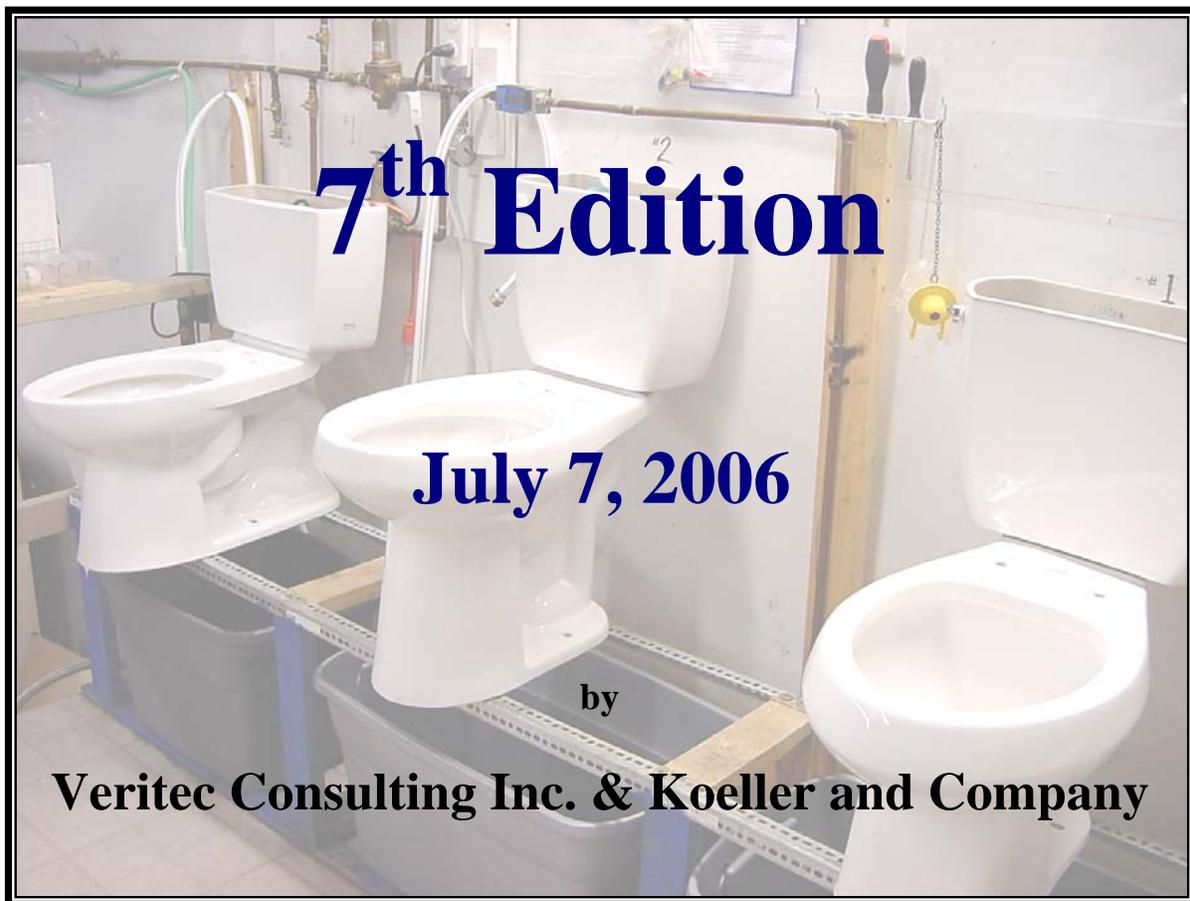


Maximum Performance (MaP) Testing of Popular Toilet Models

A Cooperative Canadian and American Project



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Important: This report, originally published in 2003 with the test results for the initial group of toilet fixtures, is periodically updated (approximately every four 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)

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APPENDIX A

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

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. However, 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 production of the models tested. The results shown in this report should be viewed only as an indication of expected 'field' results for waste removal.

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.

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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

This 6th Edition of the MaP testing results was the first report on tests that used the new MaP testing protocol. This 7th 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 has been 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.
- 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 1000g. No testing is completed with mass loadings exceeding 1000g.

We believe that the new protocol and test media is making 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 residential and light commercial toilet models 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 certified and commercially available models that do not meet customer expectations.

There are two key concerns:

- 1) Fixtures that fail to meet the maximum 6-litre flush requirements of the CSA or the 1.6-gallon requirements of the ANSI/ASME¹ result in toilets that flush with either too much or too little water;
- 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) technology in general. Instead, it is our desire that these negatives be focused only on those toilet fixtures 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

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.

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.

This **7th Edition** of the MaP testing report supersedes all earlier editions. 34 additional toilet fixture models are included in this edition, bringing the total to 247 different models measured for their flush performance. In addition, some previously tested models have been re-tested or discontinued by their manufacturer. 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 can be found at:

<http://www.cuwcc.org/Uploads/product/LADWP-SPS-ULFTReqs.pdf>.

The minimum performance benchmark adopted by MaP is 250 grams of waste. That is, a toilet fixture should completely evacuate at least 250 grams 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, 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 is intending to adopt 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).

For the sake of consistency, it is anticipated that the requirements for UNAR (Uniform North American Requirements) for toilets, which is virtually identical to the EPA's WaterSense program², 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 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 testing.
- As noted earlier, a minimum level of acceptable performance was identified.

2.2 Minimum Level of Acceptable Performance - Medical Data

A British medical report³ outlines the results of fecal tests completed on 10 male and 10 female subjects eating normal diets. The study identified the *average maximum*⁴ fecal size of the male participants to be approximately 250 grams and the 95th percentile size to be 305 grams⁵. The *average maximum* for women was slightly less at 237 grams, with the 95th percentile at 275 grams. The *average fecal size of all participants* was 130 grams⁶.

Based on this medical study, it appears that for sanitary reasons, as well as for customer satisfaction, toilets should flush a *minimum* of approximately 250 grams of solids. Therefore, for the purposes of this study, 250 grams (250g) was set as the initial performance benchmark.

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 1.16 grams/mL. Previously, the media was extruded through a 7/8-inch (22mm) diameter die, each specimen being approximately four inches (100mm) long and weighing 50 grams (± 5 grams). 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 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.

⁴ The average of the largest individual “samples” collected from each participant during the program.

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

⁶ 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 - 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, to ensure all samples flush at their rated volume, generally 6 litres (1.6 gallons).

The ability of a toilet to completely remove 100 percent of waste in a single flush without plugging or clogging is considered by many to be one of the most important test criteria. Testing is conducted by loading the fixture in 50-gram 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 used in testing has the following specifications: single ply toilet paper conforming to ASME A112.19.14-2001, section 3.2.5.1.2.

The minimum level of acceptable performance is set at 250g. Test results sorted by manufacturer are presented in **Appendix B** and sorted by performance level 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 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-approved laboratory for Certification to the SPS. **Appendix B** and **Appendix C** identify those MaP-tested products that qualify as meeting the SPS requirements. Not all of these fixtures have been certified.

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 250 and 500g, and models clearing greater than 500g. Pressure-assisted models, both 6- and 4-L (1.6- and 1.1-G), and HET⁷ models are also coded for ease of identification.

4.0 RECOMMENDATIONS

Based upon the research conducted and the test results obtained through this 7th 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 toilet 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 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.

⁷ High-Efficiency Toilet

Maximum Performance (MaP) Testing

Toilet Fixture Performance Testing Protocol

Version 2 - September 2005

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 diameter⁸, 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 $50 \pm 3\text{ PSIG}$.
- 2.2.4 Inlet water temperature shall be $15 \pm 10^\circ\text{C}$ ($59 \pm 18^\circ\text{F}$).
- 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.

⁸ 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 a 50mm (2-in.) diameter opening aligned over centre of bowl sump. Drop guide may be made of plastic or other rigid material, to be no more than 12mm (0.5-in.) 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 A112.19.14–2001, section 3.2.5.1.2

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

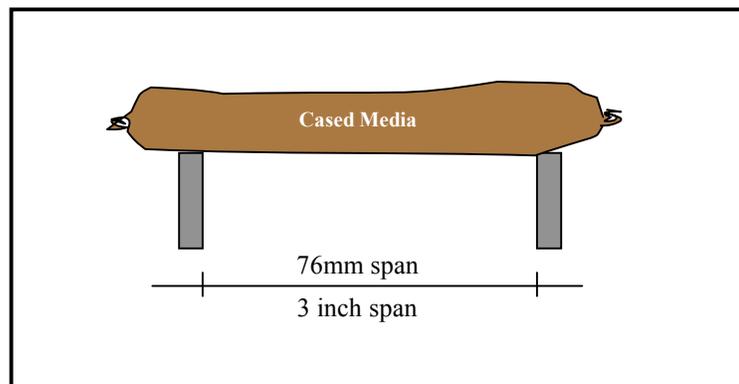


Figure 1

Maximum Performance (MaP) of Toilet Fixtures

Sorted by Manufacturer

MaP Test Report No.	Make	Model	Model Number	MaP Flush Performance (grams of solid waste removed in a single flush)	Qualifies to Los Angeles SPS	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	Cadet	2898: 4112 tank, 3459 bowl	125		2	2		F		*							F
	American Standard	Cadet	2798: 4112 tank, 3454 bowl	150		2	2		R		*							F
	American Standard	Cadet	2333: 4098 tank, 3099 bowl	750	SPS	2	-		E				*					F
7-516	American Standard	Cadet 3 Right Height EL (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
7-518	American Standard	Cadet 3 Right Height EL (10" rough-in)	2386.010: 3016 bowl, 4019 tank	1,000	SPS	2	3		E	*	*							F
7-542	American Standard	Cadet 3 Right Height EL (12" rough-in)	3016 bowl, 4021.500 LINED tank	1,000	SPS	2	3		E	*	*							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
7-520	American Standard	Cadet 3 EL (14" rough-in)	2383.014: 3014 bowl, 4027 tank	1,000	SPS	2	3		E		*							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
7-522	American Standard	Cadet 3 RF (12" rough-in)	2384.012: 3011 bowl, 4021 tank	1,000	SPS	2	3		R		*							F
7-523	American Standard	Cadet 3 Right Height EL (12" rough-in)	2386.012: 3016 bowl, 4021 tank (unlined)	1,000	SPS	2	3		E		*							F
5-558	American Standard	Champion (1-pc)	2004	650	SPS	1	3		E		*							F
5-538	American Standard	Champion (1-pc)	2034	800	SPS	1	3	*	E	*	*							F
	American Standard	Champion Elongated	2018: 3121 bowl, 4260 tank	1,000*	SPS	2	3	*	E		*							F
5-502	American Standard	Champion Right Height	2002: 3225 bowl, 4260 tank	1,000*	SPS	2	3	*	E	*	*							F
	American Standard	Champion Round Front	2023: 3110 bowl, 4260 tank	800	SPS	2	3	*	R		*							F
5-547	American Standard	Champion Select	2035: 3110 bowl, 4272 tank	800	SPS	2	3	*	R		*							F
5-545	American Standard	Champion Select	2057: 3225 bowl, 4272 tank	1,000*	SPS	2	3	*	E	*	*							F
5-546	American Standard	Champion Select	2087: 3121 bowl, 4272 tank	1,000*	SPS	2	3	*	E		*							F
	American Standard	Colony / Afton	4392.016 tank, 3038 bowl	775		2	2		R		*							F
	American Standard	Colony / Afton (lined tank)	4392.500 LINED tank, 3038 bowl	775		2	2		R		*							F
5-541	American Standard	Doral Champion	2369: 3110 bowl, 4272 tank	800	SPS	2	3	*	R		*							F
5-539	American Standard	Doral Champion	2367: 3225 bowl, 4272 tank	1,000*	SPS	2	3	*	E	*	*							F
5-540	American Standard	Doral Champion	2368: 3121 bowl, 4272 tank	1,000*	SPS	2	3	*	E		*							F
5-544	American Standard	Doral Classic Champion	2076: 3110 bowl, 4281 tank	800	SPS	2	3	*	R		*							F
5-542	American Standard	Doral Classic Champion	2058: 3225 bowl, 4281 tank	1,000*	SPS	2	3	*	E	*	*							F
5-543	American Standard	Doral Classic Champion	2074: 3121 bowl, 4281 tank	1,000*	SPS	2	3	*	E		*							F
	American Standard	FloWise	2073: 3018 bowl, 4023 tank	550	SPS	2	3	*	E								HET	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
	American Standard	Glenwall	3402 bowl, 4098 tank	800	SPS	2	-		E				*			*		W
5-531	American Standard	Oakmont Champion El Right Ht	2738: 3101 bowl, 4272 tank	1,000*	SPS	2	3	*	E	*	*							F
5-532	American Standard	Oakmont Champion Elongated	2625: 3153 bowl, 4272 tank	1,000*	SPS	2	3	*	E		*							F
5-503	American Standard	Oakmont Champion Round Front	2627: 3167 bowl, 4272 tank	1,000*	SPS	2	3	*	R		*							F
	American Standard	Plebe	3344 bowl, 4392 tank,	225		2	2		E		*							F
	American Standard	Ravenna	3454 bowl, 4096 tank	200		2	2		R		*							F

Maximum Performance (MaP) of Toilet Fixtures

Sorted by Manufacturer

MaP Test Report No.	Make	Model	Model Number	MaP Flush Performance (grams of solid waste removed in a single flush)	Qualifies to Los Angeles SPS	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		
6-642	American Standard	Skyline Champion EL	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
	American Standard	Sonoma	3338 bowl, 4392 tank	325		2	2		R		*							F
5-529	American Standard	Townsend Champion EL Right Ht	2733: 3177 bowl, 4281 tank	1,000*	SPS	2	3	*	E	*	*							F
5-533	American Standard	Townsend Champion RF Right Ht	2735: 3180 bowl, 4281 tank	1,000*	SPS	2	3	*	R	*	*							F
	American Standard	Yorkville	2320: 3120 bowl, 4099 tank	1,000*	SPS	2	-		E				*			*		F
7-535	Aquadis	CT-A1200	CT-A1200 (bowl & tank models nos. not identified)	300		2	2		R		*				HET			F
	Briggs	Abingdon III	4229: 4875 bowl, 4440 tank	150	SPS	1	2		R		*							F
	Briggs	Altima III	4232: 4320 bowl, 4430 tank	150	SPS	2	2		R		*							F
	Briggs	Hathaway Vacuity	4360 bowl, 4460 tank	700		2	2		E			*						F
7-538	Briggs	Maelstrom	4390 bowl, 4490 tank	400		2	3		R		*							F
7-537	Briggs	Maelstrom	4398 bowl, 4490 tank	600		2	3		E	*	*							F
7-536	Briggs	Maelstrom	4395 bowl, 4490 tank	600		2	3		E		*							F
	Briggs	Vacuity	4200	375	SPS	2	2		E			*						F
	Briggs	Vacuity	4210: 4310 bowl, 4400 tank	500	SPS	2	2		R			*						F
	Briggs	Vacuity	4245: 4345 bowl, 4400 tank	650	SPS	2	2		E			*				*		F
	Capizzi	Capizzi	0778 bowl, 1278 tank	475	SPS	2	-		E						HET			F
5-510	Capizzi	Turbo Capizzi High Profile	0478 bowl, 1578 tank	500	SPS	2	-		E						HET			F
5-511	Capizzi	Turbo Capizzi Low Profile	0478 bowl, 1513 tank	400	SPS	2	-		E						HET			F
5-513	Capizzi	Turbo Capizzi Low Profile ADA	0441 bowl, 1513 tank	500	SPS	2	-		E	*					HET			F
7-528	Caroma	Royale 270 RF	609159 bowl, 624530 tank	600		2	2	*	R		*				HET			F
7-524	Caroma	Reflections 305 RF	609151 bowl, 629530 tank	600	SPS	2	2	*	R		*				HET			F
7-525	Caroma	Caravelle 270 EL ADA	609120 bowl, 629435 tank	800		2	2	*	E	*	*				HET			F
7-526	Caroma	Caravelle 305 EL	609130 bowl, 629435 tank	500		2	2	*	E		*				HET			F
7-527	Caroma	Reflections 270 EL	609100 bowl, 629530 tank	500		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, 687180 tank	800	SPS	2	-	*	R	*	*				HET			F
5-508	Caroma	Caravelle 305 RF	989680: 609151 bowl, 629435 tank	650	SPS	2	-	*	R		*				HET			F
	Caroma	Caravelle One-Piece	989646	500		1	-	*	R		*				HET			F
7-513	Caroma	Colonial 270 RF	605310 bowl, 625070 tank	600		2	-	*	R		*				HET			F
5-507	Caroma	Reflections 270 RF	989720: 609159 bowl , 629530 tank	650	SPS	2	-	*	R		*				HET			F
	Caroma	Royale 305 RF	609151 bowl, 624530 tank	600	SPS	2	-	*	R		*				HET			F
5-519	Caroma	Royale 305 EL	609130 bowl, 629530 tank	850		2	-	*	E		*				HET			F
7-514	Caroma	Royale 270 EL ADA	609120 bowl, 624530 tank	850		2	-	*	E		*				HET			F
	Caroma	Tasman 270	989860: 609169 bowl, 800032 tank	550	SPS	2	-	*	R		*				HET			F
	Corona	Orchid	8510	200		2	2		R		*							F
	Crane	Cranada Pro II / Galaxy Elite II	3792: 3372 bowl, 3742 tank	375	SPS	2	2		E		*							F
	Crane	Cranada Pro II / Galaxy Elite II	3782: 3352 bowl, 3742 tank	450	SPS	2	2		R		*							F

Maximum Performance (MaP) of Toilet Fixtures

Sorted by Manufacturer

MaP Test Report No.	Make	Model	Model Number	MaP Flush Performance (grams of solid waste removed in a single flush)	Qualifies to Los Angeles SPS	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		
	Crane	Economiser	3835: 3825 bowl, 3612 tank	725	SPS	2	-		E				*					F
	Crane	Economiser	3834: 3824 bowl, 3612 tank	750	SPS	2	-		E				*					F
	Crane	SureFlush	31352: 31192 bowl, 31242 tank	350	SPS	2	3	*	R		*							F
	Crane	SureFlush	31362: 31202 bowl, 31242 tank	500	SPS	2	3	*	E		*							F
	Crane	SureFlush	31372: 31212 bowl, 31242 tank	500	SPS	2	3	*	E	*	*							F
	Crane	VIP	3997: 3992 bowl, 3976 tank	550		2	2		R			*				*		F
	Crane	VIP Flush	3996: 3991 bowl, 3976 tank	350	SPS	2	2		E			*						F
	Crane	VIP Flush	3995: 3990 bowl, 3976 tank	725	SPS	2	2		R			*						F
6-605	Duravit	Happy D	017009 bowl, 091000-05 tank	600		2	2		R		*							W
6-604	Duravit	Happy D Wallmount	017109 bowl, 111-335 tank (in wall)	600		2	2		R		*							W
6-602	Duravit	Starck 2	16301	250		1	3		E		*							W
	Eljer	Aquasaver	091-7025: 131-7025 bowl, 141-7000 tank	550	SPS	2	-		E				*					F
	Eljer	Canterbury	081-1620-00	150		1	2		R		*							F
	Eljer	Patriot	091-2120: 141-2120 tank, 131-2120 bowl	150		2	2		R		*							F
	Eljer	Patriot	131-2175 bowl, 141-0220 tank	425		2	2		E	*	*							F
	Eljer	Patriot Savoy	091-0220: 131-2120 bowl, 141-0220 tank	425		2	2		R		*							F
	Eljer	Patriot Savoy	091-0225: 131-2125 bowl, 141-0220 tank	500		2	2		E		*							F
	Eljer	Titan	091-0777: 131-0777 bowl, 141-0777 tank	900		2	3		E	*	*							F
7-504	Eljer	Titan	091-0750: 131-0750 bowl, 141-0777 tank	600		2	3		R		*							F
7-503	Eljer	Titan	091-0755: 131-0755 bowl, 141-0777 tank	600		2	3		E		*							F
	Eljer	Toronto Savoy	091-0280: 131-2120 bowl, 141-0260 tank	325		2	2		R		*							F
7-505	Eljer	Toronto Savoy	091-0265: 131-2125 bowl, 141-0260 tank	400		2	2		E		*							F
7-534	Eljer	Toronto Savoy	091-1265: 131-2175 bowl, 141-0260 tank	1,000		2	2		E	*	*							F
	Foremost	Premier / Lilas	TL-5101-WL	325		1	2		R		*							F
	Foremost	Premier / Lilas	LL-8207-W bowl, T-8207-W tank	375		2	2		R		*							F
	Foremost	Premier / Lilas	LL-8207-HC bowl, T-8207 tank	850		2	2		E	*	*							F
	Foremost	Regent	LL-5207-W bowl, T-5207-W tank	350		2	2		R		*							F
6-625	Foremost	Rona	TL-8257-TTG-WW	250		2	2		R		*							F
	Foremost	Victorian	LL-1207-W bowl, T-1207-W tank	275		2	2		R		*							F
	Gerber	Aquasaver	21-712: 28-790 tank	150		2	2		E		*							F
5-574	Gerber	Aquasaver (1-pc)	21-015	400		1	2		E		*							F
6-616	Gerber	Ultra Dual Flush	DF-21-302: 21-342 bowl, DF-28-380 tank	1,000*	SPS	2	-		R				*					F
6-620	Gerber	Ultra Dual Flush	DF-21-304: 21-342 bowl, DF-28-384 tank	1,000*	SPS	2	-		R				*					F
5-560	Gerber	Ultra Dual Flush	DF 21-318: 21-377 bowl, DF-28-380 tank	1,000*	SPS	2	-		E	*			*					F
5-579	Gerber	Ultra Dual Flush	DF-21-311: 21-372 bowl, DF-28-385 tank	1,000*	SPS	2	-		E				*					F
5-564	Gerber	Ultra Dual Flush	DF-21-312: 21-372 bowl, DF-28-380 tank	1,000*	SPS	2	-		E				*					F
5-580	Gerber	Ultra Dual Flush	DF-21-314: 21-372 bowl, DF-28-384 tank	1,000*	SPS	2	-		E				*					F
5-585	Gerber	Ultra Dual Flush	DF-21-317: 21-377 bowl, DF-28-385 tank	1,000*	SPS	2	-		E	*			*					F

Maximum Performance (MaP) of Toilet Fixtures

Sorted by Manufacturer

MaP Test Report No.	Make	Model	Model Number	MaP Flush Performance (grams of solid waste removed in a single flush)	Qualifies to Los Angeles SPS	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		
5-586	Gerber	Ultra Dual Flush	DF-21-324: 21-377 bowl, DF-28-384 tank	1,000*	SPS	2	-		E	*			*	HET			*	F
5-567	Gerber	Ultra Dual Flush	DF-21-325: 21-375 bowl, DF-28-380 tank	1,000*	SPS	2	-		E	*			*	HET			*	F
	Gerber	Ultra Flush	21-310: 21-374 bowl, 28-380 tank	625	SPS	2	-		E								*	F
5-559	Gerber	Ultra Flush	EF 21-318: 21-377 bowl, EF-28-380 tank	800	SPS	2	-		E	*					HET			F
5-575	Gerber	Ultra Flush	EF-21-311: 21-372 bowl, EF-28-385 tank	800	SPS	2	-		E	*					HET			F
5-563	Gerber	Ultra Flush	EF-21-312: 21-372 bowl, EF-28-380 tank	800	SPS	2	-		E	*					HET			F
5-576	Gerber	Ultra Flush	EF-21-314: 21-372 bowl, EF-28-384 tank	800	SPS	2	-		E	*					HET			F
5-583	Gerber	Ultra Flush	EF-21-317: 21-377 bowl, EF-28-385 tank	800	SPS	2	-		E	*					HET			F
5-584	Gerber	Ultra Flush	EF-21-324: 21-372 bowl, EF-28-384 tank	800	SPS	2	-		E	*					HET			F
5-566	Gerber	Ultra Flush	EF-21-325: 21-375 bowl, EF-28-380 tank	800	SPS	2	-		E	*					HET		*	F
6-617	Gerber	Ultra Flush	21-300: 21-342 bowl, 28-385 tank	900	SPS	2	-		R				*					F
	Gerber	Ultra Flush	21-302: 21-342 bowl, 28-380 tank	900	SPS	2	-		E				*					F
6-618	Gerber	Ultra Flush	21-304: 21-342 bowl, 28-384 tank	900	SPS	2	-		R				*					F
5-577	Gerber	Ultra Flush	21-311: 21-372 bowl, 28-385 tank	1,000*	SPS	2	-		E	*			*					F
5-562	Gerber	Ultra Flush	21-312: 21-372 bowl, 28-380 tank	1,000*	SPS	2	-		E				*					F
5-578	Gerber	Ultra Flush	21-314: 21-372 bowl, 28-384 tank	1,000*	SPS	2	-		E				*					F
5-581	Gerber	Ultra Flush	21-317: 21-377 bowl, 28-385 tank	1,000*	SPS	2	-		E	*			*					F
5-561	Gerber	Ultra Flush	21-318: 21-377 bowl, 28-380 tank	1,000*	SPS	2	-		E	*			*					F
5-582	Gerber	Ultra Flush	21-324: 21-377 bowl, 28-384 tank	1,000*	SPS	2	-		E	*			*					F
5-565	Gerber	Ultra Flush	21-325: 21-375 bowl, 28-380 tank	1,000*	SPS	2	-		E	*			*				*	F
6-615	Gerber	Ultra Flush	EF-21-302: 21-342 bowl, EF-28-380 tank	1,000*	SPS	2	-		R						HET			F
6-619	Gerber	Ultra Flush	EF-21-304: 21-342 bowl, EF-28-384 tank	1,000*	SPS	2	-		R						HET			F
7-501	Gerber	Viper	21-502: 21-552 bowl, 28-590 tank	600		2	2		R		*							F
7-502	Gerber	Viper	21-518: 21-528 bowl, 28-590 tank	600		2	2		E	*	*							F
6-612	Glacier Bay (Home Depot)	All-In-One	TG-4200-WL	300		2	2		R		*							F
	Glacier Bay (Home Depot)	Aragon IV	164963	175		2	2		R		*							F
	Glacier Bay (Home Depot)	Westminster	445-684 bowl, 455-685 tank (lined)	550		2	2		R		*							F
	Jacuzzi	Era	BM06	250		1	3		E		*							F
	Jacuzzi	Perfecta	BN30959 bowl, BN30-BN31 tank	300		2	3		E	*	*							F
	Jacuzzi	Perfecta	BN31959 bowl, BN30-BN31 tank	350		2	3		R		*							F
5-526	Kohler	Bancroft Comfort Height	K-3487: 4281 bowl, 4633 tank	800	SPS	2	3		E	*	*							F
6-603	Kohler	Barrington Pressure Lite	K-3554: 4327 bowl, 4645 tank	1,000*	SPS	2	-	*	E				*				*	F
6-628	Kohler	Cimarron	K-3497: 4287-0 bowl, 4634-0 tank - NOTE: this fixture is also identified as K-11465 when included as part of the "COMPLETE SOLUTION" package.	600	SPS	2	3		R		*							F
6-629	Kohler	Cimarron	K-3496: 4286-0 bowl, 4634-0 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

Maximum Performance (MaP) of Toilet Fixtures

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														Dual-Flush	Max 1.1-G (4-L) Pressure-Assist	Max 1.28 G (4.8 L) Gravity		
5-522	Kohler	Cimarron Comfort Height	K-3489	800	SPS	1	3		E	*	*							F
7-544	Kohler	Cimarron Eco-Smart	K-3496-HE: 4286 bowl, 4634-HE tank	350		2	3		E	*						HET		F
6-633	Kohler	Devonshire	K-3457: 4269 bowl, 4619 tank	250		2	2		E		*							F
5-523	Kohler	Highline Pressure Lite	K-3493: 4304 bowl, 4645 tank	800	SPS	2	-	*	E				*					F
7-509	Kohler	Highline Pressure Lite	K-3519: 4304 bowl, 4484 tank	1,000	SPS	2	-	*	E	*						HET		F
6-632	Kohler	Memoirs	K-3452: 4257 bowl, 4454-U tank (lined)	250		2	2		R		*							F
5-524	Kohler	Memoirs	K-3451 (Classic tank lid)	800	SPS	1	3		E	*								F
5-525	Kohler	Memoirs	K-3453 (Stately tank lid)	800	SPS	1	3		E	*								F
4-501	Kohler	Purist	K-3492 Power-Assisted	800	SPS	1	-	*	E				*					F
5-506	Kohler	San Raphael Power Lite	K-3398 Power-Assisted (DISCONTINUED MODEL-replaced by K-3393, see below)	850	SPS	1	-	*	E				*		HET			F
7-545	Kohler	San Raphael Power Lite	K-3393 Power-Assisted (replaces the K-3398)	1,000	SPS	1	-	*	E	*			*-at 1.4-g		HET			F
	Kohler	Santa Rosa	K-3323	500		1	2		E		*							F
6-624	Kohler	Sterling Karsten	402025: 402021 bowl, 402023 tank	300	SPS	2	2		R		*				HET			F
6-623	Kohler	Sterling Karsten	402028: 402026 bowl, 402023 tank	350	SPS	2	2		E		*				HET			F
6-622	Kohler	Sterling Rockton	402027: 402026 bowl, 402022 tank	300	SPS	2	-	*	E		*				HET			F
	Kohler	Sterling Rockton	402024: 402021 bowl, 402022 tank	325	SPS	2	-	*	R		*				HET			F
6-631	Kohler	Wellworth	K3422: 4276 bowl, 4620 tank	250		2	2		E		*							F
6-630	Kohler	Wellworth	K3423: 4277 bowl, 4620 tank	300		2	2		R		*							F
5-527	Kohler	Wellworth Pressure Lite	K-3505: 4303 bowl, 4645 tank	1,000*	SPS	2	-		E				*					F
7-508	Kohler	Wellworth Pressure Lite	K-3531: 4303 bowl, 4484 tank	1,000	SPS	2	-		E							HET		F
	Komet	Deco	DE 627 bowl, DE 611 tank	75		2	2		R		*							F
	Mancesa	Cyclone	2282 bowl, 2281 tank	650	SPS	2	-		E							HET		F
	Mancesa	San Marino	2262W bowl, 2261W tank	200		2	2		E		*							F
	Mancesa	St. Michelle	2360 bowl, 4260 tank	350		2	2		R		*							F
	Mancesa	Windsor	2700W bowl, 2711W tank	225		2	2		R		*							F
	Mansfield	Alto	130 bowl, 161 tank	275	SPS	2	-	*	R		*							F
	Mansfield	EcoQuantum	147 bowl, 119 tank	825	SPS	2	-		E				*		HET			F
	Mansfield	EcoQuantum	146 bowl, 119 tank	850	SPS	2	-		R				*		HET			F
	Mansfield	EcoQuantum	148 bowl, 119 tank	925	SPS	2	-		E	*			*		HET			F
5-503	Mansfield	Magnum	722	600		1	3		E		*							F
	Mansfield	Maverick	101 bowl, 102 tank	650	SPS	2	3		E		*							F
6-648	Mansfield	Montclair	107 bowl, 108 tank	550		2	3		E	*	*							F
	Mansfield	Quantum	147 bowl, 123 tank	825	SPS	2	-		E				*					F
	Mansfield	Quantum	146 bowl, 123 tank	850	SPS	2	-		R				*					F
	Mansfield	Quantum	148 bowl, 123 tank	925	SPS	2	-		E	*			*					F
6-647	Mansfield	Quantum Rear-Discharge	149 bowl, 123 tank	550	SPS	2	-		E				*			*		F

Maximum Performance (MaP) of Toilet Fixtures

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														Dual-Flush	Max 1.1-G (4-L) Pressure-Assist	Max 1.28 G (4.8 L) Gravity		
	Mansfield	QuantumOne	147 bowl, 153 tank	525	SPS	2	-		E						HET		F	
	Mansfield	QuantumOne	146 bowl, 153 tank	675	SPS	2	-		R						HET		F	
	Mansfield	QuantumOne	148 bowl, 153 tank	675	SPS	2	-		E	*					HET		F	
6-645	Niagara	Flapperless Superior EL	N2218	600		1	-	*	E	*	*						F	
6-644	Niagara	Flapperless Muskoka ADA EL	N2217: 2217 bowl, 2217 tank	600		2	-	*	E	*	*						F	
	Niagara	Flapperless RF	N2216	725	SPS	2	-	*	R		*						F	
6-646	Niagara	Flapperless Muskoka ADA RF	N2217R: 2217R bowl, 2217 tank	600		2	-	*	R	*							F	
	Niagara	Niagara Turbo RF	N2220	150	SPS	2	2		R		*						F	
	Orion	Iris	50073 bowl, 51073 tank	150		2	2		R		*						F	
5-514	Peerless Pottery (by Capizzi)	Predator ADA	608 bowl, 1 tank	500	SPS	2	-		E	*					HET		F	
5-512	Peerless Pottery (by Capizzi)	Predator Low Profile	606 bowl, 1 tank	400	SPS	2	-		E						HET		F	
	Pegasus (Home Depot)	Tulip (See Vortens-Lamosa below)	3107 bowl, 3427 tank (HD SKU SKU 477-546)	400		2	-	*	E		*				HET		F	
7-529	Quality Craft	Sylvia	2301 bowl, 2302 tank	400		2	2		R		*						F	
5-556	RAK Ceramics	Compact Syphonic EL	CT30 bowl, CT65 tank	650		2	3		E	*	*						F	
6-601	RAK Ceramics	Washington Syphonic EL	171 bowl, WT20 tank	600		2	3		E		*						F	
	St. Thomas	Marathon	6201.01	200		2	2		R		*						F	
5-516	TOTO	Aquia	CST 414: CT414 bowl, ST 413 tank	800	SPS	2	2		R		*				HET		F	
	TOTO	Carlyle	MS874114SG	625		1	3		E		*						F	
	TOTO	Carusoe	CST715: C715 bowl, ST706 tank	650		2	2		R		*						F	
	TOTO	Clayton (nee Baldwin)	CST784: C784SF bowl, ST784S tank	675		2	3		E	*	*						F	
	TOTO	CST703	CST703: C703 bowl, ST703 tank	550		2	2		R		*						F	
	TOTO	Dalton	CST734: C734F bowl, ST733 tank	650		2	2		E	*	*						F	
	TOTO	Drake	CST744S: C744 bowl, ST743 tank	900	SPS	2	3		E		*						F	
	TOTO	Plymouth	MS924154F	675	SPS	1	3		E		*						F	
7-515	TOTO	Neorest	600	700	SPS	1	-	*	E		*		*				F	
	TOTO	Ultimate	MS854114	325	SPS	1	3		E		*						F	
	TOTO	Ultimate	MS853113	400	SPS	1	3		R		*						F	
	TOTO	Ultramax	MS854114S	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 ADA EL	5065 bowl, 5066 tank	500	SPS	2	-	*	E	*					HET		F	
6-608	Vitra	Atlantis ADA EL	5052 bowl, 6853 tank	600	SPS	2	2		E	*	*						F	
	Vitra	Corina	5068 bowl, 5070 tank	825	SPS	2	3		R		*						F	
	Vitra	Corina	5069 bowl, 5070 tank	850	SPS	2	3		E		*						F	
5-551	Vitra	Corina (1-pc)	5178	750		1	3		E		*						F	
5-550	Vitra	Corina (1-pc)	5209	850		1	3		R		*						F	
6-609	Vitra	Corina Comfort EL	5232 bowl, 5070 tank	1,000*		2	3		E	*	*						F	
	Vitra	Dual Flush	5076 bowl, 5055 tank	475	SPS	2	-	*	R		*				HET		F	

Maximum Performance (MaP) of Toilet Fixtures

Sorted by Manufacturer

MaP Test Report No.	Make	Model	Model Number	MaP Flush Performance (grams of solid waste removed in a single flush)	Qualifies to Los Angeles SPS	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		
6-607	Vitra	Corina Dual Fush Comfort EL	5074 bowl, 5055 tank	800	SPS	2	2		E	*	*			HET			F	
5-536 & 5-548	Vitra	Mona	4117 bowl, 4015 tank	800		2	3		E	*	*						F	
5-537 & 5-549	Vitra	Riva	4117 bowl, 6952 tank	700		2	3		E		*						F	
	Vortens-Lamosa	Genova	3121 bowl, 3421 tank	450		2	2		E		*						F	
	Vortens-Lamosa	GTA	3200 bowl, 3412 tank	300		2	2		R		*						F	
	Vortens-Lamosa	Palermo	3126	350		1	2		R		*						F	
5-534	Vortens-Lamosa	Pegasus Tulip (Home Depot brand)	3107 bowl, 3427 tank (HD SKU SKU 477-546)	400		2	-	*	E		*			HET			F	
5-535	Vortens-Lamosa	Rhodas	3123 bowl, 3436 or 3433 tank	550		2	-		E	*	*			HET			F	
5-504	Vortens-Lamosa	Tornado EL	3138 bowl, 3468 tank	700	SPS	2	-		E						HET		F	
	Vortens-Lamosa	Vienna II	3208 bowl, 3412 tank	550		2	2		R		*						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	
	Vortens-Lamosa	Vienna RF Dual-Flush	3208 bowl, 3420 tank	375	SPS	2	-	*	R		*			HET			F	
	Vortens-Lamosa	Vienna Victory	3209 bowl, 3412 tank	550		2	2		R		*						F	
	Western Pottery	Aris 822	822 bowl, ULF-8 tank	375	SPS	2	2		R		*						F	
5-528	Western Pottery	Hi-Boy Challenger	872 bowl, ULF-8 tank	1,000*		2	2		E		*						F	
	Western Pottery	Clinton 832	832 bowl, ULF-8 tank	300	SPS	2	2		E		*						F	
6-606	Western Pottery	Dual Flush	812 DF bowl, ULF-8 DF tank	400		2	2		E		*			HET			F	
6-638	Zurn	EcoVantage ADA EL	Z5561	1,000*	SPS	2	-	*	E	*					HET		F	
6-640	Zurn	EcoVantage ADA EL	Z5560	1,000*	SPS	2	-	*	E	*			*				F	
6-639	Zurn	EcoVantage Dual Flush ADA EL	Z5562	1,000*	SPS	2	-	*	E	*			*	HET			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	
6-636	Zurn	EcoVantage RF	Z5551	350		2	3		R		*						F	
7-506	Zurn	EcoVantage EL	Z5551; Z5551 bowl, Z5551 tank	900		2	3		E		*						F	

Maximum Performance (MaP) of Toilet Fixtures

Sorted by Performance

MaP Test Report No.	Make	Model	Model Number	MaP Flush Performance (grams of solid waste removed in a single flush)	Qualifies to Los Angeles SPS	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		
	Komet	Deco	DE 627 bowl, DE 611 tank	75		2	2		R		*							F
	American Standard	Cadet	2898: 4112 tank, 3459 bowl	125		2	2		E		*							F
	American Standard	Cadet	2798: 4112 tank, 3454 bowl	150		2	2		R		*							F
	Briggs	Abingdon III	4229: 4875 bowl, 4440 tank	150	SPS	1	2		R		*							F
	Briggs	Altima III	4232: 4320 bowl, 4430 tank	150	SPS	2	2		R		*							F
	Eljer	Canterbury	081-1620-00	150		1	2		R		*							F
	Eljer	Patriot	091-2120: 141-2120 tank, 131-2120 bowl	150		2	2		R		*							F
	Gerber	Aquasaver	21-712: 28-790 tank	150		2	2		E		*							F
	Niagara	Niagara Turbo RF	N2220	150	SPS	2	2		R		*							F
	Orion	Iris	50073 bowl, 51073 tank	150		2	2		R		*							F
	Glacier Bay (Home Depot)	Aragon IV	164963	175		2	2		R		*							F
	American Standard	Ravenna	3454 bowl, 4096 tank	200		2	2		R		*							F
	Corona	Orchid	8510	200		2	2		R		*							F
	Mancesa	San Marino	2262W bowl, 2261W tank	200		2	2		E		*							F
	St. Thomas	Marathon	6201.01	200		2	2		R		*							F
	American Standard	Plebe	3344 bowl, 4392 tank,	225		2	2		E		*							F
	Mancesa	Windsor	2700W bowl, 2711W tank	225		2	2		R		*							F
NOTE: Fixtures listed above this line do NOT meet the minimum (250 grams) waste removal performance requirements recommended by MaP Testing																		
6-602	Duravit	Starck 2	16301	250		1	3		E		*							W
6-625	Foremost	Rona	TL-8257-TTG-WW	250		2	2		R		*							F
	Jacuzzi	Era	BM06	250		1	3		E		*							F
6-633	Kohler	Devonshire	K-3457: 4269 bowl, 4619 tank	250		2	2		E		*							F
6-632	Kohler	Memoirs	K-3452: 4257 bowl, 4454-U tank (lined)	250		2	2		R		*							F
6-631	Kohler	Wellworth	K3422: 4276 bowl, 4620 tank	250		2	2		E		*							F
	Foremost	Victorian	LL-1207-W bowl, T-1207-W tank	275		2	2		R		*							F
	Mansfield	Alto	130 bowl, 161 tank	275	SPS	2	-	*	R		*							F
7-535	Aquadis	CT-A1200	CT-A1200 (bowl & tank models nos. not identified)	300		2	2		R		*				HET			F
6-612	Glacier Bay (Home Depot)	All-In-One	TG-4200-WL	300		2	2		R		*							F
	Jacuzzi	Perfecta	BN30959 bowl, BN30-BN31 tank	300		2	3		E	*	*							F
6-624	Kohler	Sterling Karsten	402025: 402021 bowl, 402023 tank	300	SPS	2	2		R		*				HET			F
6-622	Kohler	Sterling Rockton	402027: 402026 bowl, 402022 tank	300	SPS	2	-	*	E		*				HET			F
6-630	Kohler	Wellworth	K3423: 4277 bowl, 4620 tank	300		2	2		R		*							F
	Vortens-Lamosa	GTA	3200 bowl, 3412 tank	300		2	2		R		*							F
	Western Pottery	Clinton 832	832 bowl, ULF-8 tank	300	SPS	2	2		E		*							F
	American Standard	Sonoma	3338 bowl, 4392 tank	325		2	2		R		*							F
	Eljer	Toronto Savoy	091-0280: 131-2120 bowl, 141-0260 tank	325		2	2		R		*							F
	Foremost	Premier / Lilas	TL-5101-WL	325		1	2		R		*							F
	Kohler	Sterling Rockton	402024: 402021 bowl, 402022 tank	325	SPS	2	-	*	R		*				HET			F
	TOTO	Ultimate	MS854114	325	SPS	1	3		E		*							F

Maximum Performance (MaP) of Toilet Fixtures

Sorted by Performance

MaP Test Report No.	Make	Model	Model Number	MaP Flush Performance (grams of solid waste removed in a single flush)	Qualifies to Los Angeles SPS	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		
	Crane	SureFlush	31352: 31192 bowl, 31242 tank	350	SPS	2	3	*	R		*							F
	Crane	VIP Flush	3996: 3991 bowl, 3976 tank	350	SPS	2	2		E			*						F
	Foremost	Regent	LL-5207-W bowl, T-5207-W tank	350		2	2		R		*							F
	Jacuzzi	Perfecta	BN31959 bowl, BN30-BN31 tank	350		2	3		R		*							F
7-544	Kohler	Cimarron Eco-Smart	K-3496-HE: 4286 bowl, 4634-HE tank	350		2	3		E	*							HET	F
6-623	Kohler	Sterling Karsten	402028: 402026 bowl, 402023 tank	350	SPS	2	2		E		*					HET		F
	Mancesa	St. Michelle	2360 bowl, 4260 tank	350		2	2		R		*							F
	Vortens-Lamosa	Palermo	3126	350		1	2		R		*							F
6-636	Zurn	EcoVantage RF	Z5551	350		2	3		R		*							F
	Briggs	Vacuity	4200	375	SPS	2	2		E			*						F
	Crane	Cranada Pro II / Galaxy Elite II	3792: 3372 bowl, 3742 tank	375	SPS	2	2		E		*							F
	Foremost	Premier / Lilas	LL-8207-W bowl, T-8207-W 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	822 bowl, ULF-8 tank	375	SPS	2	2		R		*							F
7-538	Briggs	Maelstrom	4390 bowl, 4490 tank	400		2	3		R		*							F
5-511	Capizzi	Turbo Capizzi Low Profile	0478 bowl, 1513 tank	400	SPS	2	-		E								HET	F
7-505	Eljer	Toronto Savoy	091-0265: 131-2125 bowl, 141-0260 tank	400		2	2		E		*							F
5-574	Gerber	Aquasaver (1-pc)	21-015	400		1	2		E		*							F
5-512	Peerless Pottery (by Capizzi)	Predator Low Profile	606 bowl, 1 tank	400	SPS	2	-		E								HET	F
	Pegasus (Home Depot)	Tulip (See Vortens-Lamosa below)	3107 bowl, 3427 tank (HD SKU SKU 477-546)	400		2	-	*	E		*					HET		F
7-529	Quality Craft	Sylvia	2301 bowl, 2302 tank	400		2	2		R		*							F
	TOTO	Ultimate	MS853113	400	SPS	1	3		R		*							F
5-534	Vortens-Lamosa	Pegasus Tulip (Home Depot brand)	3107 bowl, 3427 tank (HD SKU SKU 477-546)	400		2	-	*	E		*					HET		F
6-606	Western Pottery	Dual Flush	812 DF bowl, ULF-8 DF tank	400		2	2		E		*					HET		F
	Eljer	Patriot	131-2175 bowl, 141-0220 tank	425		2	2		E	*	*							F
	Eljer	Patriot Savoy	091-0220: 131-2120 bowl, 141-0220 tank	425		2	2		R		*							F
	Crane	Cranada Pro II / Galaxy Elite II	3782: 3352 bowl, 3742 tank	450	SPS	2	2		R		*							F
	Vortens-Lamosa	Genova	3121 bowl, 3421 tank	450		2	2		E		*							F
	Capizzi	Capizzi	0778 bowl, 1278 tank	475	SPS	2	-		E								HET	F
	Vitra	Dual Flush	5076 bowl, 5055 tank	475	SPS	2	-	*	R		*					HET		F
	Briggs	Vacuity	4210: 4310 bowl, 4400 tank	500	SPS	2	2		R			*						F
5-510	Capizzi	Turbo Capizzi High Profile	0478 bowl, 1578 tank	500	SPS	2	-		E								HET	F
5-513	Capizzi	Turbo Capizzi Low Profile ADA	0441 bowl, 1513 tank	500	SPS	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		2	2	*	E		*					HET		F
	Caroma	Caravelle One-Piece	989646	500		1	-	*	R		*					HET		F
7-527	Caroma	Reflections 270 EL	609100 bowl, 629530 tank	500		2	2	*	E		*					HET		F
	Crane	SureFlush	31362: 31202 bowl, 31242 tank	500	SPS	2	3	*	E		*							F
	Crane	SureFlush	31372: 31212 bowl, 31242 tank	500	SPS	2	3	*	E	*	*							F
	Eljer	Patriot Savoy	091-0225: 131-2125 bowl, 141-0220 tank	500		2	2		E		*							F

Maximum Performance (MaP) of Toilet Fixtures

Sorted by Performance

MaP Test Report No.	Make	Model	Model Number	MaP Flush Performance (grams of solid waste removed in a single flush)	Qualifies to Los Angeles SPS	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		
	Kohler	Santa Rosa	K-3323	500		1	2		E		*							F
5-514	Peerless Pottery (by Capizzi)	Predator ADA	608 bowl, 1 tank	500	SPS	2	-		E	*						HET		F
6-627	Vitra	Arkitekt ADA EL	5065 bowl, 5066 tank	500	SPS	2	-	*	E	*						HET		F
	Mansfield	QuantumOne	147 bowl, 153 tank	525	SPS	2	-		E							HET		F
	American Standard	FloWise	2073: 3018 bowl, 4023 tank	550	SPS	2	3	*	E								HET	F
	Caroma	Tasman 270	989860: 609169 bowl, 800032 tank	550	SPS	2	-	*	R		*					HET		F
	Crane	VIP	3997: 3992 bowl, 3976 tank	550		2	2		R			*					*	F
	Eljer	Aquasaver	091-7025: 131-7025 bowl, 141-7000 tank	550	SPS	2	-		E				*					F
	Glacier Bay (Home Depot)	Westminster	445-684 bowl, 455-685 tank (lined)	550		2	2		R		*							F
6-648	Mansfield	Montclair	107 bowl, 108 tank	550		2	3		E	*	*							F
6-647	Mansfield	Quantum Rear-Discharge	149 bowl, 123 tank	550	SPS	2	-		E				*				*	F
	TOTO	CST703	CST703: C703 bowl, ST703 tank	550		2	2		R		*							F
5-535	Vortens-Lamosa	Rhodas	3123 bowl, 3436 or 3433 tank	550		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	3208 bowl, 3412 tank	550		2	2		R		*							F
	Vortens-Lamosa	Vienna Victory	3209 bowl, 3412 tank	550		2	2		R		*							F
7-537	Briggs	Maelstrom	4398 bowl, 4490 tank	600		2	3		E	*	*							F
7-536	Briggs	Maelstrom	4395 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	017009 bowl, 091000-05 tank	600		2	2		R		*					HET		W
6-604	Duravit	Happy D Wallmount	017109 bowl, 111-335 tank (in wall)	600		2	2		R		*					HET		W
7-504	Eljer	Titan	091-0750: 131-0750 bowl, 141-0777 tank	600		2	3		R		*							F
7-503	Eljer	Titan	091-0755: 131-0755 bowl, 141-0777 tank	600		2	3		E		*							F
7-501	Gerber	Viper	21-502: 21-552 bowl, 28-590 tank	600		2	2		R		*							F
7-502	Gerber	Viper	21-518: 21-528 bowl, 28-590 tank	600		2	2		E	*	*							F
6-628	Kohler	Cimarron	K-3497: 4287-0 bowl, 4634-0 tank - NOTE: this fixture is also identified as K-11465 when included as part of the "COMPLETE SOLUTION" package.	600	SPS	2	3		R		*							F
5-503	Mansfield	Magnum	722	600		1	3		E		*							F
6-644	Niagara	Flapperless Muskoka ADA EL	N2217: 2217 bowl, 2217 tank	600		2	-	*	E	*	*							F
6-646	Niagara	Flapperless Muskoka ADA RF	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 ADA EL	5052 bowl, 6853 tank	600	SPS	2	2		E	*	*							F
5-520	Vortens-Lamosa	Taza Vienna RF (Unlined)	3208 bowl, 3464V tank (unlined)	600	SPS	2	2		R		*							F
	Gerber	Ultra Flush	21-310: 21-374 bowl, 28-380 tank	625	SPS	2	-		E				*				*	F

Maximum Performance (MaP) of Toilet Fixtures

Sorted by Performance

MaP Test Report No.	Make	Model	Model Number	MaP Flush Performance (grams of solid waste removed in a single flush)	Qualifies to Los Angeles SPS	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		
<p>KEY:</p> <p>Flush performance (MaP score)</p> <p>Less than 250 grams</p> <p>250 grams to 475 grams</p> <p>500 grams and more</p> <p>Type of toilet fixture</p> <p>6-L (1.6-gal) Pressure- or power-assist</p> <p>4-L (1.1-gal) Pressure-assist</p> <p>Gravity-fed & Vacuum-assist</p>																		
5-563	Gerber	Ultra Flush	EF-21-312: 21-372 bowl, EF-28-380 tank	800	SPS	2	-		E	*					HET		F	
5-576	Gerber	Ultra Flush	EF-21-314: 21-372 bowl, EF-28-384 tank	800	SPS	2	-		E	*					HET		F	
5-583	Gerber	Ultra Flush	EF-21-317: 21-377 bowl, EF-28-385 tank	800	SPS	2	-		E	*					HET		F	
5-584	Gerber	Ultra Flush	EF-21-324: 21-372 bowl, EF-28-384 tank	800	SPS	2	-		E	*					HET		F	
5-566	Gerber	Ultra Flush	EF-21-325: 21-375 bowl, EF-28-380 tank	800	SPS	2	-		E	*					HET	*	F	
5-526	Kohler	Bancroft Comfort Height	K-3487: 4281 bowl, 4633 tank	800	SPS	2	3		E	*	*						F	
6-629	Kohler	Cimarron	K-3496: 4286-0 bowl, 4634-0 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	
5-522	Kohler	Cimarron Comfort Height	K-3489	800	SPS	1	3		E	*	*						F	
5-523	Kohler	Highline Pressure Lite	K-3493: 4304 bowl, 4645 tank	800	SPS	2	-	*	E			*					F	
5-524	Kohler	Memoirs	K-3451 (Classic tank lid)	800	SPS	1	3		E		*						F	
5-525	Kohler	Memoirs	K-3453 (Stately tank lid)	800	SPS	1	3		E		*						F	
4-501	Kohler	Purist	K-3492 Power-Assisted	800	SPS	1	-	*	E			*					F	
5-516	TOTO	Aquia	CST 414: CT414 bowl, ST 413 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	5074 bowl, 5055 tank	800	SPS	2	2		E	*	*			HET			F	
5-536 & 5-548	Vitra	Mona	4117 bowl, 4015 tank	800		2	3		E		*						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	147 bowl, 119 tank	825	SPS	2	-		E			*		HET			F	
	Mansfield	Quantum	147 bowl, 123 tank	825	SPS	2	-		E			*					F	
	Vitra	Corina	5068 bowl, 5070 tank	825	SPS	2	3		R		*						F	
7-514	Caroma	Royale 270 EL ADA	609120 bowl, 624530 tank	850		2	-	*	E		*			HET			F	
5-519	Caroma	Royale 305 EL	609130 bowl, 629530 tank	850		2	-	*	E		*			HET			F	
	Foremost	Premier / Lilas	LL-8207-HC bowl, T-8207 tank	850		2	2		E	*	*						F	
5-506	Kohler	San Raphael Power Lite	K-3398 Power-Assisted (DISCONTINUED MODEL-replaced by K-3393, see below)	850	SPS	1	-	*	E			*		HET			F	
	Mansfield	EcoQuantum	146 bowl, 119 tank	850	SPS	2	-		R			*		HET			F	
	Mansfield	Quantum	146 bowl, 123 tank	850	SPS	2	-		R			*					F	
	Vitra	Corina	5069 bowl, 5070 tank	850	SPS	2	3		E		*						F	
5-550	Vitra	Corina (1-pc)	5209	850		1	3		R		*						F	
	Eljer	Titan	091-0777: 131-0777 bowl, 141-0777 tank	900		2	3		E	*	*						F	
6-617	Gerber	Ultra Flush	21-300: 21-342 bowl, 28-385 tank	900	SPS	2	-		R			*					F	
	Gerber	Ultra Flush	21-302: 21-342 bowl, 28-380 tank	900	SPS	2	-		E			*					F	
6-618	Gerber	Ultra Flush	21-304: 21-342 bowl, 28-384 tank	900	SPS	2	-		R			*					F	
	TOTO	Drake	CST744S: C744 bowl, ST743 tank	900	SPS	2	3		E		*						F	
7-506	Zurn	EcoVantage EL	Z5551: Z5551 bowl, Z5551 tank	900		2	3		E		*						F	

Maximum Performance (MaP) of Toilet Fixtures

Sorted by Performance

MaP Test Report No.	Make	Model	Model Number	MaP Flush Performance (grams of solid waste removed in a single flush)	Qualifies to Los Angeles SPS	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		
	Mansfield	EcoQuantum	148 bowl, 119 tank	925	SPS	2	-		E	*			*	HET				F
	Mansfield	Quantum	148 bowl, 123 tank	925	SPS	2	-		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
7-517	American Standard	Cadet 3 RF (10" rough-in)	2384.010: 3011 bowl, 4019 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
7-522	American Standard	Cadet 3 RF (12" rough-in)	2384.012: 3011 bowl, 4021 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
7-518	American Standard	Cadet 3 Right Height EL (10" rough-in)	2386.010: 3016 bowl, 4019 tank	1,000	SPS	2	3		E	*	*							F
7-542	American Standard	Cadet 3 Right Height EL (12" rough-in)	3016 bowl, 4021.500 LINED tank	1,000	SPS	2	3		E	*	*							F
7-523	American Standard	Cadet 3 Right Height EL (12" rough-in)	2386.012: 3016 bowl, 4021 tank (unlined)	1,000	SPS	2	3		E	*	*							F
7-516	American Standard	Cadet 3 Right Height EL (14" rough-in)	2386.014: 3016 bowl, 4027 tank	1,000	SPS	2	3		E	*	*							F
7-534	Eljer	Toronto Savoy	091-1265: 131-2175 bowl, 141-0260 tank	1,000		2	2		E	*	*							F
7-545	Kohler	San Raphael Power Lite	K-3393 Power-Assisted (replaces the K-3398)	1,000	SPS	1	-	*	E	*			*-at 1.4-g	HET				F
7-508	Kohler	Wellworth Pressure Lite	K-3531: 4303 bowl, 4484 tank	1,000	SPS	2	-		E	*					HET			F
7-509	Kohler	Highline Pressure Lite	K-3519: 4304 bowl, 4484 tank	1,000	SPS	2	-	*	E	*					HET			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
	American Standard	Champion Elongated	2018: 3121 bowl, 4260 tank	1,000*	SPS	2	3	*	E		*							F
5-502	American Standard	Champion Right Height	2002: 3225 bowl, 4260 tank	1,000*	SPS	2	3	*	E	*	*							F
5-545	American Standard	Champion Select	2057: 3225 bowl, 4272 tank	1,000*	SPS	2	3	*	E	*	*							F
5-546	American Standard	Champion Select	2087: 3121 bowl, 4272 tank	1,000*	SPS	2	3	*	E		*							F
5-539	American Standard	Doral Champion	2367: 3225 bowl, 4272 tank	1,000*	SPS	2	3	*	E	*	*							F
5-540	American Standard	Doral Champion	2368: 3121 bowl, 4272 tank	1,000*	SPS	2	3	*	E	*	*							F
5-542	American Standard	Doral Classic Champion	2058: 3225 bowl, 4281 tank	1,000*	SPS	2	3	*	E	*	*							F
5-543	American Standard	Doral Classic Champion	2074: 3121 bowl, 4281 tank	1,000*	SPS	2	3	*	E		*							F
5-531	American Standard	Oakmont Champion El Right Ht	2738: 3101 bowl, 4272 tank	1,000*	SPS	2	3	*	E	*	*							F
5-532	American Standard	Oakmont Champion Elongated	2625: 3153 bowl, 4272 tank	1,000*	SPS	2	3	*	E		*							F
5-503	American Standard	Oakmont Champion Round Front	2627: 3167 bowl, 4272 tank	1,000*	SPS	2	3	*	R		*							F
6-642	American Standard	Skyline Champion EL	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 Right Ht	2733: 3177 bowl, 4281 tank	1,000*	SPS	2	3	*	E	*	*							F
5-533	American Standard	Townsend Champion RF Right Ht	2735: 3180 bowl, 4281 tank	1,000*	SPS	2	3	*	R	*	*							F
	American Standard	Yorkville	2320: 3120 bowl, 4099 tank	1,000*	SPS	2	-		E				*			*		F
6-616	Gerber	Ultra Dual Flush	DF-21-302: 21-342 bowl, DF-28-380 tank	1,000*	SPS	2	-		R				*	HET				F
6-620	Gerber	Ultra Dual Flush	DF-21-304: 21-342 bowl, DF-28-384 tank	1,000*	SPS	2	-		R				*	HET				F
5-560	Gerber	Ultra Dual Flush	DF 21-318: 21-377 bowl, DF-28-380 tank	1,000*	SPS	2	-		E	*			*	HET				F
5-579	Gerber	Ultra Dual Flush	DF-21-311: 21-372 bowl, DF-28-385 tank	1,000*	SPS	2	-		E				*	HET				F
5-564	Gerber	Ultra Dual Flush	DF-21-312: 21-372 bowl, DF-28-380 tank	1,000*	SPS	2	-		E				*	HET				F
5-580	Gerber	Ultra Dual Flush	DF-21-314: 21-372 bowl, DF-28-384 tank	1,000*	SPS	2	-		E				*	HET				F

Maximum Performance (MaP) of Toilet Fixtures

Sorted by Performance

MaP Test Report No.	Make	Model	Model Number	MaP Flush Performance (grams of solid waste removed in a single flush)	Qualifies to Los Angeles SPS	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		
5-585	Gerber	Ultra Dual Flush	DF-21-317: 21-377 bowl, DF-28-385 tank	1,000*	SPS	2	-		E	*			*	HET				F
5-586	Gerber	Ultra Dual Flush	DF-21-324: 21-377 bowl, DF-28-384 tank	1,000*	SPS	2	-		E	*			*	HET				F
5-567	Gerber	Ultra Dual Flush	DF-21-325: 21-375 bowl, DF-28-380 tank	1,000*	SPS	2	-		E	*			*	HET		*		F
5-577	Gerber	Ultra Flush	21-311: 21-372 bowl, 28-385 tank	1,000*	SPS	2	-		E	*			*					F
5-562	Gerber	Ultra Flush	21-312: 21-372 bowl, 28-380 tank	1,000*	SPS	2	-		E				*					F
5-578	Gerber	Ultra Flush	21-314: 21-372 bowl, 28-384 tank	1,000*	SPS	2	-		E				*					F
5-581	Gerber	Ultra Flush	21-317: 21-377 bowl, 28-385 tank	1,000*	SPS	2	-		E	*			*					F
5-561	Gerber	Ultra Flush	21-318: 21-377 bowl, 28-380 tank	1,000*	SPS	2	-		E	*			*					F
5-582	Gerber	Ultra Flush	21-324: 21-377 bowl, 28-384 tank	1,000*	SPS	2	-		E	*			*					F
5-565	Gerber	Ultra Flush	21-325: 21-375 bowl, 28-380 tank	1,000*	SPS	2	-		E	*			*			*		F
6-615	Gerber	Ultra Flush	EF-21-302: 21-342 bowl, EF-28-380 tank	1,000*	SPS	2	-		R					HET				F
6-619	Gerber	Ultra Flush	EF-21-304: 21-342 bowl, EF-28-384 tank	1,000*	SPS	2	-		R					HET				F
6-603	Kohler	Barrington Pressure Lite	K-3554: 4327 bowl, 4645 tank	1,000*	SPS	2	-	*	E				*			*		F
5-527	Kohler	Wellworth Pressure Lite	K-3505: 4303 bowl, 4645 tank	1,000*	SPS	2	-		E				*					F
6-609	Vitra	Corina Comfort EL	5232 bowl, 5070 tank	1,000*		2	3		E	*	*							F
5-528	Western Pottery	Hi-Boy Challenger	872 bowl, ULF-8 tank	1,000*		2	2		E	*	*							F
6-638	Zurn	EcoVantage ADA EL	Z5561	1,000*	SPS	2	-	*	E	*				HET				F
6-640	Zurn	EcoVantage ADA EL	Z5560	1,000*	SPS	2	-	*	E	*			*					F
6-639	Zurn	EcoVantage Dual Flush ADA EL	Z5562	1,000*	SPS	2	-	*	E	*			*	HET				F