

# Maximum Performance (MaP) Testing of Popular Toilet Models

11<sup>th</sup> Edition  
December 2007

A Cooperative Canadian and American Project



by

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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), the U.S.-Canadian Alliance for Water Efficiency (AWE) 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 to the authors.

[http://www.cwwa.ca/freepub\\_e.asp](http://www.cwwa.ca/freepub_e.asp)

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

<http://www.allianceforwaterefficiency.org>

<http://veritec.ca>

(Click on "Reports")

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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 solid waste removal.

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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 required.

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 toilet fixtures 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.

## MaP Testing Protocol – Version 3

The 6th Edition was the first report summarizing tests that used the new Version 2 MaP testing protocol; that protocol called for encased test media. This 11th Edition continues that practice. HOWEVER, beginning with the 10th edition, a new testing protocol (Version 3) offered the applicant the choice between the use of either encased or uncased test media. Uncased media was the original media used from 2003 through the 5<sup>th</sup> Edition of this report. Laboratory tests by Veritec have previously indicated that, when testing with the two different media, no significant difference in test results occurs, though some manufacturers have indicated that their in-house testing experience shows otherwise. Therefore, the protocol was expanded to allow for either approach at the option of the applicant (manufacturer or other organization) submitting the product for test.

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

- Testing for water change-out (exchange) was eliminated.
- Individual 50g test media specimens (soybean paste) were encased in a thin latex membrane (similar to a sausage) and can be reused several times. This made it easier and less expensive for manufacturers, laboratories and other organizations to complete MaP testing at their own facilities.
- Toilet models were required to successfully clear all test media in a minimum of four of five attempts (vs. two of three attempts used in earlier test protocol).
- Testing was limited to attempts at following mass loadings: 250g, 300g, 350g, 400g, 500g, 600g, 800g, and 1,000g. No testing is completed with mass loadings exceeding 1,000g.

With the 10<sup>th</sup> Edition, the following additional changes were made to the protocol and are reflected in Version 3:

- As noted above, the applicant for testing is given the choice of media (encased or uncased). Section 1.3.
- While encased media is still required to pass the “bridge test”, reuse of these media is now limited to 100 flushes, after which they may no longer be used for MaP testing. Section 3.2.7.
- The temperature of the media must be maintained during testing at  $15 \pm 10^{\circ}\text{C}$  ( $59 \pm 18^{\circ}\text{F}$ ). Section 3.2.5.

The newly revised MaP testing protocol, Version 3, 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/ASME<sup>1</sup> result in toilets that flush with either too much or too little water; and
- 2) Fixtures that do not flush effectively usually result in customer complaints and occasionally the need for double flushing.

Until 2003, 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 created 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 them was 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 bulk removal 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

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<sup>1</sup> 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.

paste media has been encased as described in the test protocol (Appendix A). However, organizations applying to have a fixture tested are now given the option of choosing either the new encased test media OR the original uncased test media.

This **11th Edition** of the MaP testing report supersedes all earlier editions. Approximately 130 toilet fixture models are added in this edition (some of which replaced models in the 10<sup>th</sup> Edition), bringing the total to nearly 600 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](http://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 or other 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](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 and engineers, specifiers, builders, retailers, and manufacturers alike. Many water agencies and municipalities in the U.S. and Canada 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 also 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, the requirements for UNAR (Uniform North American Requirements) for toilet fixtures, which is virtually identical to the EPA's WaterSense program<sup>2</sup> for high-efficiency models, has likewise adopted 350g as the minimum flushing performance threshold.

The EPA's WaterSense program does not post performance scores for included toilet models; models are simply certified as meeting the WaterSense requirements, which include the 350g threshold and other criteria. Independent of WaterSense, however, we will continue to perform and report on MaP testing results via reports such as this.

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<sup>2</sup> 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.) were replaced with a combination of encased soybean paste and wads of toilet paper. Most agree that 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<sup>3</sup>.
- As noted earlier, a minimum level of acceptable waste removal performance was identified.

### 2.2 Minimum Level of Acceptable Performance - Medical Data

A British medical report<sup>4</sup> outlines the results of fecal tests completed on 10 male and 10 female subjects eating normal diets. The study identified the *average maximum*<sup>5</sup> fecal size of the male participants to be approximately 250g and the 95<sup>th</sup> percentile size to be 305g<sup>6</sup>. The *average maximum* for women was slightly less at 237g, with the 95<sup>th</sup> percentile at 275g. The *average fecal size of all participants* was 130g<sup>7</sup>. (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. Previous to the 6th Edition of the MaP report, 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, a new test protocol encases the specimen in a thin latex membrane, enabling re-use of the specimen for multiple test runs. However, the organization submitting product for testing now has the option of specifying either the encased or the uncased media.

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

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<sup>3</sup> 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).

<sup>4</sup> 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.

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

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

<sup>7</sup> 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 soy paste 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 3.0 - 2007) 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 HETs<sup>8</sup>.

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

<sup>8</sup> High-Efficiency Toilets – HETs possess an effective flush volume of 4.8 litres (1.28 gallons) or less per flush.

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:** With regard to the Los Angeles Supplementary Purchase Specification (SPS), manufacturers are required to submit their product to an recognized laboratory for testing to the SPS. **Appendix B** and **Appendix C** identify those MaP-tested products that that have been determined as meeting the SPS requirements. While gravity-fed fixtures noted as compliant to the SPS have actually been tested to that specification in a laboratory, pressure-assist fixtures comply with the current SPS by definition and do not require laboratory testing. As such, all pressure-assist fixtures are therefore shown as SPS-compliant.

### 3.0 SUMMARY

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-assist models, both 6- and 4-L (1.6- and 1.1-G), and HET models are also coded for ease of identification.

This 11<sup>th</sup> Edition reports on the performance of a sizable number of flushometer valve commercial fixtures. These fixtures are separately colour-coded as well. Note that while flushometer valve fixtures have been tested to the Appendix A test protocol, this is **not the protocol that will eventually be applied to this type of fixture**. Development of a new, more rigorous MaP test for commercial applications is currently underway. When completed in early 2008, all flushometer valve toilet fixtures will undergo testing to the new protocol and be reported separately. In addition, it is likely that many manufacturers will request that their pressure-assist fixtures be re-tested to the commercial MaP, since they are used widely in commercial applications.

Note: Beginning with this 11<sup>th</sup> Edition, and for ease of use, this report will be supplemented (in January 2008) with abbreviated sections for specific applications and technologies, i.e., gravity-fed toilets, pressure-assist toilets, flushometer valve toilets, HETs, 1.6-gallon toilets, etc. This will enable consumers and specifiers to more readily scan and utilize the data on the fixtures of interest to them.

### 4.0 RECOMMENDATIONS

Based upon the research conducted and the very extensive test results obtained during the initial 2003 testing through this 11th Edition, the authors continue to 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 give priority to toilet models that meet both the LADWP SPS and the MaP threshold. SPS-qualified gravity-fed 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 and/or WaterSense for future toilet replacement programs. Further information on the UNAR and WaterSense specifications may be obtained from the authors.

## Maximum Performance (MaP) Testing

### Toilet Fixture Performance Testing Protocol

Version 3 - July 2007

#### 1.0 Scope of MaP Testing

- 1.1 Toilet model maximum performance (MaP) level is identified as the maximum media loading (in discrete 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 either 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 (cased media), tied at each end forming a ‘sausage’, and four loosely crumpled balls of toilet paper (“paper”), or
  - 1.3.2 One or more  $50 \pm 4\text{g}$  test specimen (“test specimen”) consisting of extruded soybean paste (raw or uncased media) and four loosely crumpled balls of toilet paper (“paper”).
- 1.4 Each test specimen shall be approximately  $100 \pm 13\text{mm}$  in length and  $25 \pm 6\text{mm}$  in diameter<sup>9</sup>.
- 1.5 Unless otherwise specified all MaP testing will be completed using cased media, however, the client may choose, at their discretion, to have fixture samples tested with uncased test media.

#### 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 apparatus (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 Samples shall be flushed 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.

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<sup>9</sup> approximately  $4 \pm 0.5$  inches in length and  $1 \pm 0.25$  inches in diameter

- 2.3.2 Samples with measured flush volumes in excess of 0.5 litres (0.13 gallons) greater than their rated flush volume when adjusted to the indicated waterline shall be deemed to fail MaP testing requirements due to excessive flush volume.
- 2.3.3 Samples with measured flush volumes less than 0.5 litres (0.13 gallons) greater than their rated flush volume adjusted to the indicated waterline 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 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 into bowl through opening in drop guide. Test specimen should be held in such a way that approximately half of the specimen protrudes through the opening in the drop guide prior to release into the 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  $10 \pm 1$  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).
- 2.4.7.1 If cased media is used, remove (rinse) discharged toilet paper from test specimens, and prepare test specimens for further testing.
- 2.4.7.2 If uncased (raw) media is used, discard discharged media into garbage or other suitable container.
- 2.4.8 Flush sample to clean bowl and trapway and fully restore trap seal.
- 2.4.9 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.
- 2.4.10 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  $1.15 \pm 0.10$  g/mL (i.e., density greater than water).
- 3.2 Cased Test Media:
- 3.2.1 Latex casing shall be made from non-lubricated latex condoms (LifeStyles® brand, purchased from Ansell Healthcare Products LLC, Dothan, AL 36303 USA).
- 3.2.2 Cord used to tie casing shall be 1.0mm diameter polymer cord that will not crack or harden with time (Stretch Magic Bead & Jewelry Cord, Peperell Braiding Company, P.O. Box 1487, Peperell, MA 01463, 800-343-8114)
- 3.2.3 Each test specimen shall have a mass of  $50 \pm 4$ g.
- 3.2.4 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.
- 3.2.5 Temperature of test specimens during testing shall be shall be  $15 \pm 10^{\circ}\text{C}$  ( $59 \pm 18^{\circ}\text{F}$ ).
- 3.2.6 Test specimens that have been stored in a refrigerator shall be acclimatized by flushing each specimen a minimum of three times prior to conducting MaP testing.
- 3.2.7 Individual test specimens shall be discarded after 100 flushes or when it fails to span the clear distance of 76mm (3-in.) for minimum of 15 seconds when tested at room temperature (setup illustrated in Figure 1 below), whichever comes first.
- 3.2.8 Test specimens with rips, tears, punctures, etc. shall not be used.
- 3.2.9 Test specimens that are damaged in any way shall not be used.
- 3.2.10 Test specimens may contain small volumes of air, however, specimens that float shall not be used.
- 3.3 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: Bulk test media (soybean paste) or 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 - Attn: Bill Gauley, P.Eng., Principal [bill@veritec.ca](mailto:bill@veritec.ca)

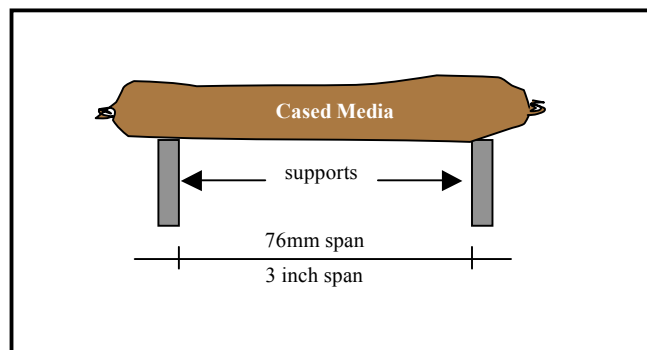


Figure 1

## **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: Fixtures so-noted in the report 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. Note: While the designated fixtures meet bowl-height requirements of Americans with Disabilities Act, this report does NOT imply that fixture meets any other ADA requirements.

EL – Elongated toilet bowl

Gal - Gallons

HET – High-Efficiency Toilet: An HET is defined as a toilet fixture whose average or effective 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 effective 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. (for internal use)	Make	Model Name	Model Number	MaP Flush Performance (grams of solid waste removed from the toilet in a SINGLE flush)	Meets Los Angeles specification (SPS) for water savings sustainability	Certified to meet U.S. EPA WaterSense Specification	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 Bowl	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	Single-Flush Max 1.1-G (4-L) Pressure-Assist	Single-Flush Max 1.28 G (4.8 L) Gravity	Flushometer Valve (commercial)					
																					KEY: Flush performance (MaP score)	Type of toilet fixture	
10-135	American Standard	Afwall EL	3351.160 flushometer bowl only (top spud); tested w/1.6-gpf flushometer valve	1,000	NE	NE	1	-		E	*										R	W	
10-135	American Standard	Afwall EL	3352.160 flushometer bowl only (top spud; w/bedpan lugs); tested w/1.6-gpf flushometer valve	1,000	NE	NE	1	-		E	*										R	W	
10-134	American Standard	Afwall FloWise EL	3351.128 flushometer bowl only (top spud); tested w/1.2-gpf flushometer valve	800	NE	NE	1	-		E	*										HET	R	W
10-134	American Standard	Afwall FloWise EL	3352.128 flushometer bowl only (top spud; w/bedpan lugs); tested w/1.2-gpf flushometer valve	800	NE	NE	1	-		E	*										HET	R	W
10-018	American Standard	Cadet 3 EL	2457.016: 3014 bowl, 4007 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	
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)	2383.012: 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)	2386.012: 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	
10-013	American Standard	Cadet 3 RF	2455.016: 3011 bowl, 4007 tank	1,000	SPS		2	3		R	*											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)	2384.012: 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	
10-012	American Standard	Cadet 3 Right Height EL ADA	2459.016: 3016 bowl, 4007 tank	1,000	SPS		2	3		E	*	*										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	
10-007	American Standard	Champion 4 EL	2018.214: 3121 bowl, 4266 tank	1,000	SPS		2	3		E	*											F	
11-100	American Standard	Champion 4 EL	2018.504: 3121.016 bowl, 4266.504 tank	1,000	SPS		2	3		E	*	*										F	
11-098	American Standard	Champion 4 EL (one-piece)	2004 (one-piece)	600	SPS		1	3		E	*	*										F	
10-016	American Standard	Champion 4 EL ADA	2002.014: 3225 bowl, 4266 tank	950	SPS		2	3		E	*	*										F	
11-099	American Standard	Champion 4 EL ADA	2002.504: 3225.016 bowl, 4266.504 tank	1,000	SPS		2	3		E	*	*										F	
11-097	American Standard	Champion 4 EL ADA (one-piece)	2034.314 (one-piece)	800	SPS		1	3		E	*	*										F	
10-022	American Standard	Champion 4 RF	2023.214: 3110 bowl, 4266 tank	1,000	SPS		2	3		R	*											F	
11-101	American Standard	Champion 4 RF	2023.504: 3110.016 bowl, 4266.504 tank	1,000	SPS		2	3		R	*											F	
	American Standard	Champion EL	2018: 3121 bowl, 4260 tank	1,000	SPS		2	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 RF	4392.016 tank, 3038 bowl	775			2	2		R	*	*										F	
	American Standard	Colony RF (lined tank)	4392.500 LINED tank, 3038 bowl	775			2	2		R	*	*										F	
10-011	American Standard	Compact Cadet	2403.012 (one-piece)	1,000	SPS		1	3		E	*	*										F	



Maximum Performance (MaP) of Toilet Fixtures

Appendix B - Sorted by Manufacturer

MaP Test Report No. (for internal use)	Make	Model Name	Model Number	MaP Flush Performance (grams of solid waste removed from the toilet in a SINGLE flush)	Meets Los Angeles specification (SPS) for water savings sustainability	Certified to meet U.S. EPA WaterSense Specification	High-Efficiency Toilets (HETs)														
							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 Bowl	1.6G (6L) Gravity-flush	1.6G (6L) Vacuum-Assist	Power OR Pressure-Assisted Full Flush at 1.6-G (6-L)	Dual-Flush	Single-Flush Max 1.1-G (4-L) Pressure-Assist	Single-Flush Max 1.28 G (4.8 L) Gravity	Flushometer Valve (commercial)	Rear Discharge	Floor-Mounted (F) OR Wall-Mounted (W)	
																					KEY: Flush performance (MaP score)
10-128	American Standard	Compact Cadet 3 EL	2431.010: 3046.016 bowl, 4019.016 tank	1,000	SPS		2	3		E		*									F
10-015	American Standard	Doral Champion 4 EL	2368.014: 3121 bowl, 4272 tank	1,000	SPS		2	3		E		*									F
10-003	American Standard	Doral Champion 4 EL ADA	2367.014: 3225 bowl, 4272 tank	1,000	SPS		2	3		E	*	*									F
10-020	American Standard	Doral Champion 4 RF	2369.014: 3110 bowl, 4272 tank	1,000	SPS		2	3		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
10-019	American Standard	Doral Classic Champion 4 EL OR Williamsburg Champion 4 EL	2074.014: 3121 bowl, 4281 tank	1,000	SPS		2	3		E		*									F
10-014	American Standard	Doral Classic Champion 4 RF OR Williamsburg Champion RF	2076.014: 3110 bowl, 4281 tank	1,000	SPS		2	3		R		*									F
10-001	American Standard	Doral Classic Champion EL ADA	2058.014: 3225 bowl, 4281 tank	850	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
5-544	American Standard	Doral Classic/Williamsburg RF	2076: 3110 bowl, 4172.016 tank	800	SPS		2	3	*	R		*									F
10-127	American Standard	FloWise Compact Cadet 3 EL	2403.128 (one-piece)	1,000	WS	WS	1	3		E											F
10-126	American Standard	FloWise Dual Flush EL	2479.216: 3067.216 bowl, 4035.216 tank	900	WS	WS	2	2	*	E		*			HET						F
	American Standard	FloWise EL	2073.013: 3018 bowl, 4023.013 tank (this model to be discontinued & replaced by 2073.014)	550	SPS		2	3	*	E											F
10-021	American Standard	FloWise EL	2073.014: 3018 bowl, 4023.014 tank	750	SPS	WS	2	3	*	E											F
	American Standard	Glenwall EL	3402 bowl, 4098 tank	800	SPS		2	-		E	*			*						R	W
10-129	American Standard	Madera EL (10-inch rough-in)	3451.160 flushometer bowl only (top spud); tested w/1.6 gal flushometer valve	1,000	NE	NE	1	-		E											F
10-129	American Standard	Madera EL (10-inch rough-in)	3452.160 flushometer bowl only (top spud; w/bedpan lugs); tested w/1.6 gal flushometer valve	1,000	NE	NE	1	-		E											F
10-130	American Standard	Madera EL (10-inch rough-in)	3453.160 flushometer bowl only (back spud); tested w/1.6 gal flushometer valve	1,000	NE	NE	1	-		E											F
10-130	American Standard	Madera EL (10-inch rough-in)	3455.160 flushometer bowl only (back spud; w/bedpan lugs); tested w/1.6 gal flushometer valve	1,000	NE	NE	1	-		E											F
10-131	American Standard	Madera EL ADA (10-inch rough-in)	3461.160 flushometer bowl only (top spud); tested w/1.6 gal flushometer valve	1,000	NE	NE	1	-		E	*										F
10-131	American Standard	Madera EL ADA (10-inch rough-in)	3462.160 flushometer bowl only (top spud; w/bedpan lugs); tested w/1.6 gal flushometer valve	1,000	NE	NE	1	-		E	*										F
10-132	American Standard	Madera FloWise EL (10-inch rough-in)	3451.128 flushometer bowl only (top spud); tested w/1.2 gal flushometer valve	1,000	NE	NE	1	-		E											F
10-132	American Standard	Madera FloWise EL (10-inch rough-in)	3452.128 flushometer bowl only (top spud; w/bedpan lugs); tested w/1.2 gal flushometer valve	1,000	NE	NE	1	-		E											F
10-133	American Standard	Madera FloWise EL ADA (10-in rough)	3461.128 flushometer bowl only (top spud); tested w/1.2 gal flushometer valve	1,000	NE	NE	1	-		E	*										F
10-133	American Standard	Madera FloWise EL ADA (10-in rough)	3462.128 flushometer bowl only (top spud; w/bedpan lugs); tested w/1.2 gal flushometer valve	1,000	NE	NE	1	-		E	*										F
5-531	American Standard	Oakmont Champion EL ADA	2738: 3101 bowl, 4272 tank	1,000	SPS		2	3	*	E	*	*									F
10-004	American Standard	Oakmont Champion 4 EL	2625.014: 3153 bowl, 4272 tank	1,000	SPS		2	3		E		*									F

Maximum Performance (MaP) of Toilet Fixtures

Appendix B - Sorted by Manufacturer

MaP Test Report No. (for internal use)	Make	Model Name	Model Number	Map Flush Performance (grams of solid waste removed from the toilet in a SINGLE flush)	Meets Los Angeles specification (SPS) for water savings sustainability	Certified to meet U.S. EPA WaterSense Specification	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 Bowl	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	Single-Flush Max 1.1-G (4-L) Pressure-Assist	Single-Flush Max 1.28 G (4.8 L) Gravity	Flushometer Valve (commercial)			
																					KEY: Flush performance (MaP score)
10-017	American Standard	Oakmont Champion 4 EL ADA	2738.014: 3101 bowl, 4272 tank	1,000	SPS		2	3		E	*	*									F
10-008	American Standard	Oakmont Champion 4 RF	2627.014: 3167 bowl, 4272 tank	1,000	SPS		2	3		R	*	*									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
10-090	American Standard	Renaissance EL	2446: 3344 bowl, 4037 tank	250			2	2		E	*	*									F
10-009	American Standard	Skyline Champion 4 EL	2219.014: 3121 bowl, 4077 tank	1,000	SPS		2	3		E	*	*									F
10-005	American Standard	Skyline Champion 4 EL ADA	2067.014: 3225 bowl, 4077 tank	950	SPS		2	3		R	*	*									F
10-006	American Standard	Skyline Champion 4 RF	2112.014: 3110 bowl, 4077 tank	1,000	SPS		2	3		E	*	*									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
10-077	American Standard	Sonoma/Colony RF	3338 bowl, 4392 tank	300			2	2		R	*	*									F
10-010	American Standard	Townsend Champion 4 EL ADA	2733.014: 3177 bowl, 4281 tank	1,000	SPS		2	3		E	*	*									F
5-529	American Standard	Townsend Champion EL ADA	2733: 3177 bowl, 4281 tank	1,000	SPS		2	3	*	E	*	*									F
10-002	American Standard	Townsend Champion RF ADA	2735.014: 3180 bowl, 4281 tank	1,000	SPS		2	3		R	*	*									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	*	*		*						R	F
7-535	Aquadis	CT-A1200 RF	CT-A1200 (bowl & tank models nos. not identified)	300			2	2		R	*	*					HET				F
10-056	Aquadis	DecoKit RF	TI 627 bowl, FL 610 tank	500			2	2		R	*	*									F
10-054	Aquadis	Liverpool EL ADA	FI 629 bowl, FL 610 tank	800			2	2		E	*	*									F
10-055	Aquadis	Tytane EL	TY350 (one piece)	350			1	2		E	*	*					HET				F
11-087	Bolina	Italiana EL	3031: 3031 bowl, 3031 tank	400			2	2		E	*	*					HET				F
	Briggs	Abingdon III RF	4229: 4875 bowl, 4440 tank	150			2	2		R	*	*									F
8-511	Briggs	Altima III RF	4232: 4320 bowl, 4430 tank	600			2	2		R	*	*									F
	Briggs	Hathaway Vacuity EL	4360 bowl, 4460 tank	700			2	2		E	*	*		*							F
11-089	Briggs	Kingsley EL	6087 (one piece)	800			1	3		E	*	*									F
11-090	Briggs	Kingsley RF	6083-130 (one piece)	600			1	3		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
7-538	Briggs	Maelstrom RF	4390 bowl, 4490 tank	400			2	3		R	*	*									F
	Briggs	Vacuity EL	4200: 4300 bowl, 4400 tank	375	SPS		2	2		E	*	*		*							F
	Briggs	Vacuity EL	4245: 4345 bowl, 4400 tank	650	SPS		2	2		E	*	*		*						R	F
	Briggs	Vacuity RF	4210: 4310 bowl, 4400 tank	500	SPS		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	WS	2	-	*	E	*	*					HET				F
8-537	Caroma	Adelaide 270 Standard EL	834000 bowl, 814328 tank	700	SPS	WS	2	-	*	E	*	*					HET				F
10-113	Caroma	Bondi 270 CC RF	609159 bowl, 726350 tank	600	SPS	WS	2	-	*	R	*	*					HET				F
11-050	Caroma	Bondi 270 EL	609100 bowl, 726350 tank	550	WS	WS	2	-	*	E	*	*					HET				F
10-112	Caroma	Bondi 270 EL ADA	609120 bowl, 726350 tank	900	SPS	WS	2	-	*	E	*	*					HET				F

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MaP Test Report No. (for internal use)	Make	Model Name	Model Number	MaP Flush Performance (grams of solid waste removed from the toilet in a SINGLE flush)	Meets Los Angeles specification (SPS) for water savings sustainability	Certified to meet U.S. EPA WaterSense Specification	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 Bowl	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	Single-Flush Max 1.1-G (4-L) Pressure-Assist	Single-Flush Max 1.28 G (4.8 L) Gravity	Flushometer Valve (commercial)					
																					KEY: Flush performance (MaP score)	Type of toilet fixture	
																Less than 250 grams	6-L (1.6-gal) Pressure- or power-assist						
																250 grams to 475 grams	4-L (1.1-gal) Pressure-assist (HET)						
																500 grams and more	Gravity-fed & Vacuum-assist						
																	6-L (1.6-gal) Flushometer Bowl & Valve Combination (Commercial applications)						
																	4.8-L (1.28-gal) Flushometer Bowl & Valve Combination HET (Commercial applications)						
11-049	Caroma	Bondi 270 RF ADA	607177 bowl, 726350 tank	550	WS	WS	2	-	*	F	*	*					HET						F
10-110	Caroma	Bondi 305 CC RF	609151 bowl, 726350 tank	450	SPS	WS	2	-	*	R	*	*					HET						F
10-111	Caroma	Bondi 305 EL	609130 bowl, 726350 tank	350	WS	WS	2	-	*	F	*	*					HET						F
8-538	Caroma	Caravelle 1-Piece EL ADA	989668	800	SPS	WS	1	-	*	F	*	*					HET						F
9-032	Caroma	Caravelle 270 EL	609100 bowl, 629435 tank	500	SPS	WS	2	-	*	F	*	*					HET						F
7-525	Caroma	Caravelle 270 EL ADA	609120 bowl, 629435 tank	800	SPS	WS	2	-	*	F	*	*					HET						F
	Caroma	Caravelle 270 RF	989760: 609159 bowl, 629435 tank	500	SPS	WS	2	-	*	F	*	*					HET						F
5-509	Caroma	Caravelle 270 RF ADA	989770: 609177 bowl, 629435 tank	800	SPS	WS	2	-	*	R	*	*					HET						F
7-526	Caroma	Caravelle 305 EL	609130 bowl, 629435 tank	500	SPS	WS	2	-	*	F	*	*					HET						F
5-508	Caroma	Caravelle 305 RF	989680: 609151 bowl, 629435 tank	650	SPS	WS	2	-	*	R	*	*					HET						F
	Caroma	Caravelle One-Piece RF	989646	500	SPS	WS	1	-	*	R	*	*					HET						F
7-513	Caroma	Colonial 270 RF	605310 bowl, 625070 tank	600	SPS	WS	2	-	*	R	*	*					HET						F
7-527	Caroma	Reflections 270 EL	609100 bowl, 629530 tank	500			2	-	*	F	*	*					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	-	*	R	*	*					HET						F
11-052	Caroma	Royale 270 EL	609100 bowl, 624530 tank	800	WS	WS	2	-	*	F	*	*					HET						F
7-514	Caroma	Royale 270 EL ADA	609120 bowl, 624530 tank	850	SPS	WS	2	-	*	F	*	*					HET						F
7-528	Caroma	Royale 270 RF	609159 bowl, 624530 tank	600	WS	WS	2	-	*	R	*	*					HET						F
11-051	Caroma	Royale 270 RF ADA	609177 bowl, 624530 tank	900	WS	WS	2	-	*	F	*	*					HET						F
5-519	Caroma	Royale 305 EL	609130 bowl, 629530 tank	850	WS	WS	2	-	*	F	*	*					HET						F
	Caroma	Royale 305 RF	609151 bowl, 624530 tank	600	SPS	WS	2	-	*	R	*	*					HET						F
11-055	Caroma	Sydney 270 EL	609100 bowl, 622320 tank	500	WS	WS	2	-	*	F	*	*					HET						F
8-533	Caroma	Sydney 270 EL ADA	609120 bowl, 622320 tank	1,000	SPS	WS	2	-	*	F	*	*					HET						F
11-053	Caroma	Sydney 270 RF	609159 bowl, 622320 tank	600	WS	WS	2	-	*	F	*	*					HET						F
11-054	Caroma	Sydney 270 RF ADA	609177 bowl, 622320 tank	600	WS	WS	2	-	*	F	*	*					HET						F
10-115	Caroma	Sydney 305 EL	609130 bowl, 622320 tank	500	SPS	WS	2	-	*	F	*	*					HET						F
10-114	Caroma	Sydney 305 RF	609151A bowl, 622320 tank	1,000	SPS	WS	2	-	*	R	*	*					HET						F
11-116	Caroma	Sydney Smart 305 RF (1.28-gpf-0.8-gpf dual flush)	609151A bowl, 622322 tank	650	WS	WS	2	-	*	R	*	*					HET						F
	Caroma	Tasman 270 RF	989860: 609169 bowl, 800032 tank	550	SPS		2	-	*	R	*	*					HET						F
10-116	Caroma	Walvit EL (ADA optional)	604119 bowl, 227001 tank (concealed in-wall)	500			2	-	*	F	*	*					HET				R		W
8-532	Cascadian	EL	C5000 bowl; T5000 tank	250			2	3		F	*	*											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		F	*	*											F
8-505	Ceralux/Mancesa	Windsor RF	2700 bowl, 2711 tank	400			2	2		R	*	*											F
	Corona	Orchid RF	8510	200			2	2		R	*	*											F
11-105	Costco	WaterRidge EL	386082 (one-piece)	150			1	2		F	*	*					HET						F
11-037	Crane	Atlas/Atlanta RF	31012N: 31047N bowl, 31742N tank	400	SPS		2	2		R	*	*											F
11-017	Crane	Baby Bowl (NOTE: 10" child's bowl height)	3811: 3210 bowl, 3227 tank	250			2	3		R	*	*											F
11-023	Crane	Classic III EL ADA	31512: 31852 bowl, 31822 tank	800			2	3		F	*	*											F
WS	Crane	Eco Galaxy/Cranada EL	31008: 3372 bowl, 31590 tank	500	WS	WS	2	-		F	*	*					HET						F
WS	Crane	Eco Galaxy/Cranada RF	31007: 3352 bowl, 31590 tank	500	WS	WS	2	-		R	*	*					HET						F
WS	Crane	Eco Galaxy/Cranada RF	31067: 3352 bowl, 31593 tank (insulated)	600	WS	WS	2	-		R	*	*					HET						F

Maximum Performance (MaP) of Toilet Fixtures

Appendix B - Sorted by Manufacturer

MaP Test Report No. (for internal use)	Make	Model Name	Model Number	Map Flush Performance (grams of solid waste removed from the toilet in a SINGLE flush)	Meets Los Angeles specification (SPS) for water savings sustainability	Certified to meet U.S. EPA WaterSense Specification	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 Bowl	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	Single-Flush Max 1.1-G (4-L) Pressure-Assist	Single-Flush Max 1.28 G (4.8 L) Gravity	Flushometer Valve (commercial)			
																					HET
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 (HET)		Gravity-fed & Vacuum-assist		6-L (1.6-gal) Flushometer Bowl & Valve Combination (Commercial applications)		4.8-L (1.28-gal) Flushometer Bowl & Valve Combination HET (Commercial applications)	

Maximum Performance (MaP) of Toilet Fixtures

Appendix B - Sorted by Manufacturer

MaP Test Report No. (for internal use)	Make	Model Name	Model Number	Map Flush Performance (grams of solid waste removed from the toilet in a SINGLE flush)	Meets Los Angeles specification (SPS) for water savings sustainability	Certified to meet U.S. EPA WaterSense Specification	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 Bowl	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	Single-Flush Max 1.1-G (4-L) Pressure-Assist	Single-Flush Max 1.28 G (4.8 L) Gravity	Flushometer Valve (commercial)				
																					KEY: Flush performance (MaP score)	Type of toilet fixture
11-032	Crane	San Walton EL	3484 flushometer bowl only, tested w/1.6-gpf flushometer valve	500	NE	NE	1	-		E											F	
11-031	Crane	San Walton EL ADA	31080 flushometer bowl only, tested w/1.6-gpf flushometer valve	600	NE	NE	1	-		E	*										F	
11-034	Crane	San Walton EL ADA	31082 flushometer bowl only, tested w/1.6-gpf flushometer valve	800	NE	NE	1	-		E	*										F	
11-036	Crane	San Walton EL ADA	31083 flushometer bowl only, tested w/1.6-gpf flushometer valve	800	NE	NE	1	-		E	*										F	
11-024	Crane	Shiloh EL	31731 (one piece)	400			1			E		*									F	
10-036	Crane	Sureflush EL	31352: 31192 bowl, 31242 tank	1,000			2	3		E		*									F	
11-013	Crane	SureFlush EL	31362: 31202 bowl, 31242 tank	800	SPS		2	3		E		*									F	
11-012	Crane	Sureflush EL	31363: 31202 bowl, 31243 tank	800			2	3		E		*									F	
11-011	Crane	SureFlush EL ADA	31372: 31212 bowl, 31242 tank	1,000	SPS		2	3		E	*	*									F	
11-014	Crane	Sureflush EL ADA	31373: 31212 bowl, 31243 tank	1,000			2	3		E	*	*									F	
11-002	Crane	SureFlush RF	31352: 31192 bowl, 31242 tank	1,000	SPS		2	3		R		*									F	
11-010	Crane	Sureflush RF	31353: 31192 bowl, 31243 tank	800			2	3		R		*									F	
	Crane	VIP Flush EL	3996: 3991 bowl, 3976 tank	350			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			*							R	F	
11-042	Crane	Whirlton RF	3327 flushometer bowl only, tested w/1.6-gpf flushometer valve	400	NE	NE	1	-		R											F	
10-091	Duravit	2nd Floor (ADA optional)	220509 bowl, 111.335 in-wall tank (Geberit)	400			2	2		S	*	*							HET		R	W
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		R	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		R	W
6-604	Duravit	Happy D Wallmount RF	017109 bowl, 111.335 in-wall tank (Geberit)	600			2	2		R	*	*							HET		R	W
8-529	Duravit	Phillipe Starck RF (one-piece)	16301.02 (one-piece)	300			1	3		R	*	*									R	W
6-602	Duravit	Starck 2 EL (one piece)	16301 (one-piece)	250			1	3		E	*	*									R	W
8-543	Duravit	Starck 3 RF	220009 bowl, 111.335 in-wall tank (Geberit)	250			2	2		R	*	*							HET		R	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 (one-piece)	600			1	3		E		*									F	
	Eljer	Canterbury RF	081-1620 (one-piece)	150			1	2		R		*									F	
10-026	Eljer	Patriot EL	091-2125: 131-2125 bowl, 141-2120 tank	400			2	2		E		*									F	
	Eljer	Patriot EL ADA	091-2175: 131-2175 bowl, 141-2120 tank	500			2	2		E	*	*									F	
	Eljer	Patriot RF (replaced with newer version)	091-2120: 131-2120 bowl; 141-2120 tank	150			2	2		R		*									F	
10-028	Eljer	Patriot RF (replaces earlier version of Patriot RF)	091-2120: 131-2120 bowl, 141-2120 tank	400			2	2		R		*									F	
	Eljer	Patriot Savoy EL	091-0225: 131-2125 bowl, 141-0220 tank	500			2	2		E		*									F	
10-027	Eljer	Patriot Savoy EL ADA	091-0285: 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	
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	
10-145	Eljer	Titan EL	091-0755: 131-0755 bowl, 141-0777 tank	1,000			2	3		E		*									F	

Maximum Performance (MaP) of Toilet Fixtures

Appendix B - Sorted by Manufacturer

MaP Test Report No. (for internal use)	Make	Model Name	Model Number	MaP Flush Performance (grams of solid waste removed from the toilet in a SINGLE flush)	Meets Los Angeles specification (SPS) for water savings sustainability	Certified to meet U.S. EPA WaterSense Specification	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 Bowl	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	Single-Flush Max 1.1-G (4-L) Pressure-Assist	Single-Flush Max 1.28 G (4.8 L) Gravity	Flushometer Valve (commercial)			
																					KEY: Flush performance (MaP score)
8-514	Eljer	Titan EL (one piece)	081-0755	1,000			1	3		E		*									F
	Eljer	Titan EL ADA	091-0777: 131-0777 bowl, 141-0777 tank	900			2	3		E	*	*									F
8-515	Eljer	Titan EL ADA (one piece)	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
10-144	Eljer	Titan RF	091-0750: 131-0750 bowl, 141-0777 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
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	091-0260: 131-2120 bowl, 141-0260 tank	325			2	2		R		*									F
<b>FERGUSON - SEE PRO-FLO</b>																					
	Foremost	Classic RF	LL-1207 bowl, T-1207 tank	275			2	2		R		*									F
7-530	Foremost	Colonade EL ADA	TL-6010-E: LL-6010-E bowl, T-6010 tank	400			2	3		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
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		*						HET			F
11-095	Foremost	None	TL-4000-WL (one-piece)	350	SPS		1	2		E		*									F
11-094	Foremost	None - EL	TL-6300E-WL (one-piece, lined tank)	1,000			1	2		E		*									F
10-084	Foremost	None - EL	TL-6800-WL: T-6800-WL bowl, LL-6800-W tank (lined)	300			2	2		E		*									F
11-072	Foremost	None - EL	TL-7237-YL: LL-7237-Y bowl, T-7237-YL tank (lined)	350			2	3		E		*									F
WS	Foremost	None - EL ADA	AIO1000-EW	350	WS	WS	2			E	*	*						HET			F
10-078	Foremost	None - EL ADA	TL-6010E-W: LL-6010-EW bowl, T-6010-W tank	600			2	3		E	*	*									F
10-080	Foremost	None - EL ADA	TL-6010E-WL: LL-6010-EW bowl, T-6010-WL tank (lined)	500			2	3		E	*	*									F
11-073	Foremost	None - RF	TT-2010-WL: LL-2010 bowl, T-2010 tank (lined)	600	WS	WS	2	2.5		R		*						HET			F
WS	Foremost	None - RF ADA	AIO1000-RW	350	WS	WS	2			R	*	*						HET			F
11-078	Foremost	None EL	4722BET bowl, 4721BFT tank (lined)	650			2	2		E		*									F
11-079	Foremost	None EL	4722BET bowl, 4721BFTU tank	600			2	2		E		*									F
11-077	Foremost	None EL ADA	4722BFT bowl, 4721BFTU tank	600			2	2		E	*	*									F
11-076	Foremost	None EL ADA	4722BIT bowl, 4721BFT tank (lined)	600			2	2		E	*	*									F
11-086	Foremost	None EL ADA	TL-7600HC-HET-Y: LL-7600HC-HET bowl, T-7600-HET tank	400	WS	WS	2			E	*	*						HET			F
11-082	Foremost	None RF	4710BFT (lined tank)	600			1	2.5		R		*									F
11-083	Foremost	None RF	4710BFTU (one piece)	550			1	2.5		R		*									F



Maximum Performance (MaP) of Toilet Fixtures

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															Dual-Flush	Single-Flush Max 1.1-G (4-L) Pressure-Assist	Single-Flush Max 1.28 G (4.8 L) Gravity	Flushometer Valve (commercial)			
																					KEY: Flush performance (MaP score)
11-084	Foremost	None RF	4710BFZ (one piece with insulated tank)	500			1	2.5		R	*	*				HET					F
11-085	Foremost	None RF	4710BFZU (one piece)	600			1	2.5		R	*	*				HET					F
11-080	Foremost	None RF	4720BFZ combination (lined tank)	600			2	2		R	*	*				HET					F
11-081	Foremost	None RF	4720BFZU combination	550			2	2		R	*	*				HET					F
11-074	Foremost	None RF	4722BFT bowl, 4721BFT tank (lined)	600			2	2		R	*	*									F
11-075	Foremost	None RF	4722BFT bowl, 4721BFTU tank	550			2	2		R	*	*									F
9-046	Foremost	Pegasus EL ADA	SKU 464-747 (one-piece)	1,000			1	2		E	*	*									F
11-001	Foremost	Plaza	TL-7107-WL: T7107 bowl, LL-7107 tank	350	WS	WS	2	-			*	*				HET					F
	Foremost	Premier / Lilas EL ADA	LL-8207-HC bowl, T-8207 tank (ALSO sold as combination TT-8297-WL)	850			2	2		E	*	*									F
	Foremost	Premier / Lilas RF	LL-8207 bowl, T-8207 tank (ALSO sold as combination TT-8207-WL)	375			2	2		R	*	*									F
	Foremost	Premier / Lilas RF (one-piece)	TL-5101-L (one piece with lined tank)	325			1	2		R	*	*									F
11-093	Foremost	Premier EL	TL-5100-WL (one piece with lined tank)	750			1	2		E	*	*									F
	Foremost	Regent RF	LL-5207 bowl, T-5207 tank	350			2	2		R	*	*									F
11-092	Foremost	Regent RF	TL-5200-WL (one piece with lined tank)	700			1	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
WS	Foremost (for Home Depot)	None EL ADA	B76001 (Glacier Bay Home Depot SKU 331-725)	350	WS	WS	2			E	*	*					HET				F
10-095	Gerber	Allerton EL (10-inch rough-in)	20-005: 21-572 bowl, 28-585 tank	1,000			2	2		E	*	*									F
10-059	Gerber	Allerton EL (12-inch rough-in)	20-004: 21-572 bowl, 28-580 tank	600			2	2		E	*	*									F
10-096	Gerber	Allerton EL (14-inch rough-in)	20-006: 21-572 bowl, 28-584 tank	500			2	2		E	*	*									F
10-061	Gerber	Allerton EL ADA (10-inch rough-in)	20-008: 21-577 bowl, 28-585 tank	800			2	2		E	*	*									F
10-060	Gerber	Allerton EL ADA (12-inch rough-in)	20-002: 21-577 bowl, 28-580 tank	800			2	2		E	*	*									F
10-097	Gerber	Allerton EL ADA (14-inch rough-in)	20-009: 21-577 bowl, 28-584 tank	800			2	2		E	*	*									F
10-058	Gerber	Allerton RF (10-inch rough-in)	20-002: 21-542 bowl, 28-585 tank	800			2	2		R	*	*									F
10-057	Gerber	Allerton RF (12-inch rough-in)	20-001: 21-542 bowl, 28-580 tank	1,000			2	2		R	*	*									F
10-094	Gerber	Allerton RF (14-inch rough-in)	20-003: 21-542 bowl, 28-584 tank	1,000			2	2		R	*	*									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
10-063	Gerber	Brianne EL	20-013 (one-piece)	600	SPS		1	-		E	*	*		*							F
10-105	Gerber	Brianne EL (12-inch rough-in)	20-015: 21-185 bowl, 28-183 tank	1,000			2	3		E	*	*									F
10-104	Gerber	Brianne EL ADA (12-inch rough-in)	20-013: 21-183 bowl, 28-183 tank	800			2	3		E	*	*									F
10-062	Gerber	Brianne RF	20-014: 21-184 bowl, 28-183 tank	1,000			2	2		R	*	*									F
10-064	Gerber	Maurice EL	20-012 (one-piece)	500	SPS		1	-		E	*	*		*							F
10-103	Gerber	Maxwell EL (10-inch rough-in)	21-410: 21-762 bowl, 28-495 tank	300			2	2		E	*	*									F
10-106	Gerber	Maxwell EL (10-inch rough-in)	21-410: 21-762 bowl, EH 28-495 tank	400	SPS		2	2		E	*	*									F
10-102	Gerber	Maxwell EL (12-inch rough-in)	21-412: 21-762 bowl, 28-490 tank	350			2	2		E	*	*									F
10-101	Gerber	Maxwell EL (12-inch rough-in)	21-412: 21-762 bowl, EH 28-490 tank	300			2	2		E	*	*									F
10-100	Gerber	Maxwell EL (14-inch rough-in)	21-414: 21-762 bowl, 28-494 tank	400			2	2		E	*	*									F
10-099	Gerber	Maxwell EL (14-inch rough-in)	21-414: 21-762 bowl, EH 28-494 tank	300			2	2		E	*	*									F

Maximum Performance (MaP) of Toilet Fixtures

Appendix B - Sorted by Manufacturer

MaP Test Report No. (for internal use)	Make	Model Name	Model Number	MaP Flush Performance (grams of solid waste removed from the toilet in a SINGLE flush)	Meets Los Angeles specification (SPS) for water savings sustainability	Certified to meet U.S. EPA WaterSense Specification	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 Bowl	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	Single-Flush Max 1.1-G (4-L) Pressure-Assist	Single-Flush Max 1.28 G (4.8 L) Gravity	Flushometer Valve (commercial)				
																					KEY: Flush performance (MaP score)	Type of toilet fixture
10-071	Gerber	Maxwell EL ADA (10-inch rough-in)	21-417: 21-728 bowl, 28-495 tank	300			2	2		E	*	*									F	
10-072	Gerber	Maxwell EL ADA (10-inch rough-in)	21-417: 21-728 bowl, EH28-495 tank	250			2	2		E	*	*									F	
10-073	Gerber	Maxwell EL ADA (12-inch rough-in)	21-418: 21-728 bowl, 28-490 tank	300			2	2		E	*	*									F	
10-074	Gerber	Maxwell EL ADA (12-inch rough-in)	21-418: 21-728 bowl, EH28-490 tank	300			2	2		E	*	*									F	
10-075	Gerber	Maxwell EL ADA (14-inch rough-in)	21-424: 21-728 bowl, 28-494 tank	250			2	2		E	*	*									F	
10-076	Gerber	Maxwell EL ADA (14-inch rough-in)	21-424: 21-728 bowl, EH28-494 tank	250			2	2		E	*	*									F	
10-065	Gerber	Maxwell RF (10-inch rough-in)	21-400: 21-752 bowl, 28-495 tank	400			2	2		R		*									F	
10-066	Gerber	Maxwell RF (10-inch rough-in)	21-400: 21-752 bowl, EH28-495 tank	400			2	2		R		*									F	
10-098	Gerber	Maxwell RF (12-inch rough-in)	21-017 (one piece)	400			1	2		R		*									F	
10-067	Gerber	Maxwell RF (12-inch rough-in)	21-402: 21-752 bowl, 28-490 tank	300			2	2		R		*									F	
10-068	Gerber	Maxwell RF (12-inch rough-in)	21-402: 21-752 bowl, EH28-490 tank	400			2	2		R		*									F	
10-069	Gerber	Maxwell RF (14-inch rough-in)	21-404: 21-752 bowl, 28-494 tank	600			2	2		R		*									F	
10-070	Gerber	Maxwell RF (14-inch rough-in)	21-404: 21-752 bowl, EH28-494 tank	300			2	2		R		*									F	
WS	Gerber	Ultra Dual Flush EL	DF-21-310: 21-374 bowl, DF-28-380 tank	350	WS	WS	2	-		E				*						R	F	
5-564	Gerber	Ultra Dual Flush EL	DF-21-312: 21-372 bowl, DF-28-380 tank	1,000	SPS	WS	2	-		E				*							F	
5-580	Gerber	Ultra Dual Flush EL	DF-21-314: 21-372 bowl, DF-28-384 tank	1,000	SPS	WS	2	-		E				*							F	
5-560	Gerber	Ultra Dual Flush EL ADA	DF-21-318: 21-377 bowl, DF-28-380 tank	1,000	SPS	WS	2	-		E	*			*							F	
5-586	Gerber	Ultra Dual Flush EL ADA	DF-21-324: 21-377 bowl, DF-28-384 tank	1,000	SPS	WS	2	-		E	*			*							F	
5-567	Gerber	Ultra Dual Flush EL ADA (rear discharge)	DF-21-325: 21-375 bowl, DF-28-380 tank	1,000	SPS	WS	2	-		E	*			*						R	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	*			*							F	
6-616	Gerber	Ultra Dual Flush RF	DF-21-302: 21-342 bowl, DF-28-380 tank	1,000	SPS	WS	2	-		R				*							F	
6-620	Gerber	Ultra Dual Flush RF	DF-21-304: 21-342 bowl, DF-28-384 tank	1,000	SPS	WS	2	-		R				*							F	
	Gerber	Ultra Flush (rear discharge)	21-310: 21-374 bowl, 28-380 tank	625	SPS		2	-		E				*						R	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	
WS	Gerber	Ultra Flush EL	EF-21-310: 21-374 bowl, EF-28-380 tank	350	WS	WS	2	-		E											R	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	WS	2	-		E	*										F	
5-563	Gerber	Ultra Flush EL ADA	EF-21-312: 21-372 bowl, EF-28-380 tank	800	SPS	WS	2	-		E	*										F	
5-576	Gerber	Ultra Flush EL ADA	EF-21-314: 21-372 bowl, EF-28-384 tank	800	SPS	WS	2	-		E	*										F	
5-584	Gerber	Ultra Flush EL ADA	EF-21-324: 21-372 bowl, EF-28-384 tank	800	SPS	WS	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	*			*						R	F	
5-566	Gerber	Ultra Flush EL ADA (rear discharge)	EF-21-325: 21-375 bowl, EF-28-380 tank	800	SPS	WS	2	-		E	*									R	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	*										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	WS	2	-		R											F	
6-619	Gerber	Ultra Flush RF	EF-21-304: 21-342 bowl, EF-28-384 tank	1,000	SPS	WS	2	-		R											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	



Maximum Performance (MaP) of Toilet Fixtures

Appendix B - Sorted by Manufacturer

MaP Test Report No. (for internal use)	Make	Model Name	Model Number	Map Flush Performance (grams of solid waste removed from the toilet in a SINGLE flush)	Meets Los Angeles specification (SPS) for water savings sustainability	Certified to meet U.S. EPA WaterSense Specification	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 Bowl	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	Single-Flush Max 1.1-G (4-L) Pressure-Assist	Single-Flush Max 1.28 G (4.8 L) Gravity	Flushometer Valve (commercial)			
																					KEY: Flush performance (MaP score)
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
11-048	Globe Union Canada	StoneHouse EL (one-piece)	C220672 (one-piece)	350	SPS		1	2		E		*									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		*									F
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		*									F
8-549	HCG	Queen EL	CS1003 Queen: C1003 bowl, S353 tank	400			2	3		E		*									F
10-083	Home Depot - Aragon	Aragon IV EL	SKU 164-963 (one-piece, lined tank)	300			1	2		E		*									F
6-612	Home Depot - Glacier Bay	All-In-One RF	TG-4200-WL: also SKU 170-263	300			2	2		R		*									F
	Home Depot - Glacier Bay	Aragon IV RF	SKU 164-963 (note that SKU is identical to that of Aragon IV EL)	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
WS	Home Depot - Glacier Bay (by Foremost)	None	SKU 331-725 (Foremost Model BT6001)	350	WS	WS															F
11-108	Home Depot - Glacier Bay (by Niagara)	None - EL ADA (Flapperless)	SKUs: 382-298 bowl, 382-438 tank	400			2	-		E	*	*									F
7-530	Home Depot - Pegasus	Colonade EL ADA	SKU 160-406 bowl, 152-143 tank	400			2	3		E	*	*									F
10-081	Home Depot - Pegasus	Colonade EL ADA	SKUs: 146-548 bowl, 146-283 tank (lined)	500			2	3		E	*	*									F
10-079	Home Depot - Pegasus	Colonade EL ADA	SKUs: 160-406 bowl, 152-143 tank	600			2	3		E	*	*									F
8-540	Home Depot - Pegasus	Dual-Flush RF	SKU 131-926	800			2	-		R		*									F
5-534	Home Depot - Pegasus	Tulip EL (See Vortens-Lamosa)	SKU 477-546: 3107 bowl, 3427 tank	400	SPS		2	-	*	E		*									F
11-107	Home Depot - Pegasus (by Niagara)	Cottage EL ADA (Flapperless)	N2228: N2228B bowl, N2228T tank. Sold combined as Home Depot SKU 840-565	350	WS	WS	2	-	*	E		*									F
10-085	Home Depot - Westminster	Westminster EL	SKUs: 455-684 bowl, 455-685 tank (lined)	300			2	2		E		*									F
11-106	Home Depot (by Niagara)	Ecologic EL ADA (Flapperless)	N2225E: N2225EB bowl, N2225T tank. Sold combined as Home Depot SKU 331-725	800	SPS	WS	2	-	*	E	*	*									F
8-541	Jacuzzi	Era Collection EL ADA	BK37959 (sold as a set)	800			2	3		E	*	*									F
10-045	Jacuzzi	ERA Collection EL ADA (toilet in a box)	BK37959 (sold as a set)	250			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

Maximum Performance (MaP) of Toilet Fixtures

Appendix B - Sorted by Manufacturer

MaP Test Report No. (for internal use)	Make	Model Name	Model Number	MaP Flush Performance (grams of solid waste removed from the toilet in a SINGLE flush)	Meets Los Angeles specification (SPS) for water savings sustainability	Certified to meet U.S. EPA WaterSense Specification	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 Bowl	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	Single-Flush Max 1.1-G (4-L) Pressure-Assist	Single-Flush Max 1.28 G (4.8 L) Gravity	Flushometer Valve (commercial)			
																					KEY: Flush performance (MaP score)
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
10-044	Jacuzzi	Signa Collection EL	BA29-959 bowl, Y415-959 tank	300			2	2		E	*	*									F
10-047	Kohler	Archer EL ADA	K-3517: 4295 bowl, 4493 tank	800	SPS		2	3		E	*	*									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				*						R	F
WS	Kohler	Barrington Pressure Lite EL	K-3652: 4327 bowl, 4484 tank	350	WS	WS	2	-		E				*		HET				R	F
5-522	Kohler	Cimarron Comfort Height EL ADA	K-3489	800	SPS		1	3		E	*	*									F
10-109	Kohler	Cimarron Eco-Smart EL ADA	K-3496-HE: 4286 bowl, 4634-HE tank	800	SPS	WS	2	3		E	*	*				HET					F
11-071	Kohler	Cimarron EL	K-3499: 4285 bowl, 4634 tank (option at 1.4-gal)	600	SPS		2	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
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
10-046	Kohler	Gabrielle EL ADA	K-3513 (one-piece)	800	SPS		1	3		E	*	*									F
10-107	Kohler	Highline EL ADA	K-3611: 4298 bowl, 4632 tank	800			2	3		E	*	*									F
5-523	Kohler	Highline Pressure Lite EL ADA	K-3493: 4304 bowl, 4645 tank	800	SPS		2	-	*	E	*	*		*							F
5-524	Kohler	Memoirs Classic EL	K-3451 (Classic 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
5-525	Kohler	Memoirs Stately EL	K-3453 (Stately tank lid)	800	SPS		1	3		E		*									F
WS	Kohler	Persuade EL	K-3654: 4322 bowl, 4419 tank	350	SPS	WS	2	-		E		*			HET						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	WS	1	-	*	E	*			*-at 1.4-g	HET						F
WS	Kohler	San Raphael Pressure Lite EL ADA	K-3597 (one-piece)	350	WS	WS	1	-	*	E	*					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	WS	2	2	*	E		*			HET						F
8-550	Kohler	Sterling Karsten RF	402025: 402021 bowl, 402023 tank	800	SPS	WS	2	2	*	R		*			HET						F
10-092	Kohler	Sterling Riverton RF	402502: 404015 bowl, 404522 tank	250			2	2		R		*									F
6-622	Kohler	Sterling Rockton EL	402027: 402026 bowl, 402022 tank	350	SPS	WS	2	-	*	E		*			HET						F
	Kohler	Sterling Rockton RF	402024: 402021 bowl, 402022 tank	350	SPS	WS	2	-	*	R		*			HET						F
	Kohler	Sterling Stanton EL	402040: 402030 bowl, 402031 tank	350	SPS	WS	2	-	*	E		*			HET						F
6-631	Kohler	Wellworth EL	K-3422: 4276 bowl, 4620 tank	250			2	2		E		*									F
10-143	Kohler	Wellworth EL (flushometer bowl & valve combination)	K-4406 flushometer bowl (tested with K-10956 flushometer valve (piston type))	1,000	NE	NE	2	-		E								HET			F

Maximum Performance (MaP) of Toilet Fixtures

Appendix B - Sorted by Manufacturer

MaP Test Report No. (for internal use)	Make	Model Name	Model Number	MaP Flush Performance (grams of solid waste removed from the toilet in a SINGLE flush)	Meets Los Angeles specification (SPS) for water savings sustainability	Certified to meet U.S. EPA WaterSense Specification	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 Bowl	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	Single-Flush Max 1.1-G (4-L) Pressure-Assist	Single-Flush Max 1.28 G (4.8 L) Gravity	Flushometer Valve (commercial)			
																					KEY: Flush performance (MaP score)
				Less than 250 grams	250 grams to 475 grams	500 grams and more	6-L (1.6-gal) Pressure- or power-assist	4-L (1.1-gal) Pressure-assist (HET)	Gravity-fed & Vacuum-assist	6-L (1.6-gal) Flushometer Bowl & Valve Combination (Commercial applications)	4.8-L (1.28-gal) Flushometer HET (Commercial applications)										
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	WS	2	-		E									HET		F
6-630	Kohler	Wellworth RF	K-3423: 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	WS	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			2	-	*	R		*									F
10-125	Mansfield	EcoQuantum EL	147 bowl, 119 tank	1,000	SPS	WS	2	-		E				*				HET			F
10-118	Mansfield	EcoQuantum EL	149 bowl, 119 tank	550	SPS	WS	2	-		E				*				HET		R	F
10-123	Mansfield	EcoQuantum EL ADA	148 bowl, 119 tank	1,000	SPS	WS	2	-		E	*			*				HET			F
10-124	Mansfield	EcoQuantum RF	146 bowl, 119 tank	1,000	SPS	WS	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			2	3		E		*									F
9-041	Mansfield	Maverick EL	101 bowl, 109 tank (lined tank)	1,000			2	3		E		*									F
9-040	Mansfield	Maverick EL ADA	104 bowl, 109 tank (lined tank)	1,000			2	3		E	*	*									F
6-648	Mansfield	Montclair EL ADA	107 bowl, 108 tank	550			2	3		E	*	*									F
11-068	Mansfield	None - EL	144 bowl, 119 tank	1,000	SPS	WS	2	-		E	*			*				HET		R	W
11-069	Mansfield	None - EL	144 bowl, 123 tank	1,000	SPS		2	-		E	*			*						R	W
11-070	Mansfield	None - EL	144 bowl, 153 tank	900	SPS	WS	2	-		E	*							HET		R	W
9-042	Mansfield	None - RF	103 bowl, 109 tank	400			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	950	SPS		2	-		E				*						R	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
10-121	Mansfield	QuantumOne EL	147 bowl, 153 tank	1,000	SPS	WS	2	-		E								HET			F
10-119	Mansfield	QuantumOne EL	149 bowl, 153 tank	1,000	SPS	WS	2	-		E								HET		R	F
10-120	Mansfield	QuantumOne EL ADA	148 bowl, 153 tank	1,000	SPS	WS	2	-		E	*							HET			F
10-122	Mansfield	QuantumOne RF	146 bowl, 153 tank	1,000	SPS	WS	2	-		R								HET			F
9-039	Mansfield/Colceramica	Stafford EL	105 bowl, 106 tank	800			2	3		E		*									F
10-023	Niagara	Ecologic EL ADA HET (Flapperless)	N2225E: N2225EB bowl, N2225T tank. Also sold as Home Depot SKU 331-725	800	SPS	WS	2	-	*	E	*								HET		F
10-024	Niagara	Ecologic RF HET (Flapperless)	N2225R: N2225RB bowl, N2225T tank (note that tank and bowl model nos. are identical to those of the older Flapperless RF HET)	500	SPS	WS	2	-		R									HET		F
WS	Niagara	Flapperless HET EL	N2228: N2228B bowl, N2228T tank. Also sold as Home Depot SKU 840-565	350	WS	WS	2	-	*	E									HET		F
9-037	Niagara	Flapperless HET RF	N2225RB bowl, N2225T tank (model replaced by the Ecologic RF HET flapperless)	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

Maximum Performance (MaP) of Toilet Fixtures

Appendix B - Sorted by Manufacturer

MaP Test Report No. (for internal use)	Make	Model Name	Model Number	Map Flush Performance (grams of solid waste removed from the toilet in a SINGLE flush)	Meets Los Angeles specification (SPS) for water savings sustainability	Certified to meet U.S. EPA WaterSense Specification	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 Bowl	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	Single-Flush Max 1.1-G (4-L) Pressure-Assist	Single-Flush Max 1.28 G (4.8 L) Gravity	Flushometer Valve (commercial)			
																					KEY: Flush performance (MaP score)
	Niagara	Flapperless RF	N2216: 2216B bowl, 2216T tank	725			2	-	*	R		*									F
6-645	Niagara	Flapperless Superior EL	N2218	600			1	-	*	E	*	*									F
	Niagara	Niagara Turbo RF	N2220: 2220B bowl, 2220T tank	150			2	2		R		*									F
WS	Niagara	None	N2310: 2310B bowl, 2310T tank	350	SPS	WS	2	-											HET		F
11-046	Niagara	None EL	N4418 (one piece)	500	SPS		1	-	*	E										HET	F
11-091	Niagara	None EL ADA	N2226: 2226B bowl, 2216T tank	400			2	-	*	E	*	*									F
11-045	Niagara	None EL ADA	N4417: N4417 bowl, N4415T tank	350	SPS		2	-	*	E	*									HET	F
11-064	Niagara	None RF	N4416: N4416 bowl, N4415T tank	300	SPS		2	-	*	R										HET	F
	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
10-137	Porcher (American Standard)	Veneto II EL	97220 (one-piece)	800			1	3		E		*									F
11-103	Pro-Flo	None - EL	PF1301: PF1301 bowl, PF 4112 tank	350			2	2		E		*									F
11-104	Pro-Flo	None - EL ADA	PF1303: PF1303 bowl, PF 4112 tank	350			2	2		E	*	*									F
11-102	Pro-Flo	None - RF	PF1300: PF1300 bowl, PF 4112 tank	350			2	2		R		*									F
	Pro-Flo (by Briggs for Ferguson)	Abingdon III RF	PF2200 bowl; PF3212 tank	150			2	2		R		*									F
8-511	Pro-Flo (by Briggs for Ferguson)	Altima III RF	PF1200 bowl; PF3112 tank	600			2	2		R		*									F
	Pro-Flo (by Briggs for Ferguson)	Hathaway Vacuity EL	PF2200 bowl; PF3212 tank	700			2	2		E			*								F
7-536	Pro-Flo (by Briggs for Ferguson)	Maelstrom EL	PF8200 bowl; PF8212 tank	600			2	3		E		*									F
7-537	Pro-Flo (by Briggs for Ferguson)	Maelstrom EL ADA	PF8201 bowl; PF8212 tank	600			2	3		E	*	*									F
7-538	Pro-Flo (by Briggs for Ferguson)	Maelstrom RF	PF8203 bowl; PF8212 tank	400			2	3		R		*									F
	Pro-Flo (by Briggs for Ferguson)	Vacuity EL	PF3200 bowl; PF3612 tank	650			2	2		E			*								R F
	Pro-Flo (by Briggs for Ferguson)	Vacuity EL	PF3201 bowl; PF3612 tank	375			2	2		E			*								F
	Pro-Flo (by Briggs for Ferguson)	Vacuity RF	PF3205 bowl; PF3612 tank	500			2	2		R			*								F
11-066	Pro-Flo (by Tynan for Ferguson)	Cascade EL	PF9301 bowl; PF9312 tank	400	SPS	WS	2	2		E		*								HET	F
11-065	Pro-Flo (by Tynan for Ferguson)	Cascade EL ADA	PF9304 bowl; PF9312 tank	450	SPS	WS	2	2		E	*	*								HET	F
11-067	Pro-Flo (by Tynan for Ferguson)	Cascade RF	PF9300 bowl; PF9312 tank	500	SPS	WS	2	2		R		*								HET	F
11-114	Pro-Flo (by Tynan for Ferguson)	MacLair EL	PF9401 bowl; PF9412 tank	850	SPS	WS	2	3		E										HET	F
11-112	Pro-Flo (by Tynan for Ferguson)	MacLair RF	PF9400 bowl; PF9412 tank	900	SPS	WS	2	3		R										HET	F
10-093	Quality Craft	None	2301 bowl, 2302 tank (lined) with pilot-type fill valve	300			2	2		R		*									F
7-529	Quality Craft	Sylvia RF	2301 bowl, 2302 tank with ballcock fill valve	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
10-086	Romax	Romax RF	3274-502: T6816 bowl, X6816 tank	150			2	2		R		*									F
<b>STERLING - SEE KOHLER</b>																					
	St. Thomas	Marathon RF	6201.01	200			2	2		R		*									F
11-047	Svena Int'l	Eago EL	TB109M	300			1	2.5		E		*									F
5-516	Toto	Aquia EL	CST414M: CT414 bowl, ST413M tank	800	SPS	WS	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

Maximum Performance (MaP) of Toilet Fixtures

Appendix B - Sorted by Manufacturer

MaP Test Report No. (for internal use)	Make	Model Name	Model Number	MaP Flush Performance (grams of solid waste removed from the toilet in a SINGLE flush)	Meets Los Angeles specification (SPS) for water savings sustainability	Certified to meet U.S. EPA WaterSense Specification	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 Bowl	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	Single-Flush Max 1.1-G (4-L) Pressure-Assist	Single-Flush Max 1.28 G (4.8 L) Gravity	Flushometer Valve (commercial)			
																					KEY: Flush performance (MaP score)
	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	CST744S: C744S bowl, ST743S tank	900	SPS		2	3		E	*	*									F
	Toto	EcoClayton	CST784EF: C784EF bowl, ST784E tank	500	SPS		2	3		E	*	*									F
	Toto	EcoDartmouth EL ADA	CST754EF: C754EF bowl, ST753E tank	700	SPS		2	3		E	*	*									F
11-061	Toto	EcoDrake EL	CST744E: C744E bowl, ST743E tabj	600	SPS	WS	2	3		E	*	*									F
11-062	Toto	EcoDrake EL ADA	CST744EL: C744EL bowl, ST743E tank	900	SPS	WS	2	3		E	*	*									F
11-060	Toto	EcoDrake RF	CST743E: C743E bowl, ST743E tank	500	SPS	WS	2	3		R	*	*									F
	Toto	EcoNexus EL ADA	CST794EF: CT794EF bowl, ST794E tank	500	SPS	WS	2	3		E	*	*									F
	Toto	EcoSupreme EL	CST864E OR MS864114E OR MW864****E	500	SPS	WS	1	3		E	*	*									F
WS	Toto	EcoSupreme Rf	CST863E OR MS863113E OR MW863****E	350	SPS	WS	1	3		E	*	*									F
	Toto	EcoUltramax EL	CST854E OR MS854114E OR MW854****E	500	SPS	WS	1	3		E	*	*									F
	Toto	EcoUltramax EL ADA	CST854EL OR MS854114EL OR MW854****EL	500	SPS	WS	1	3		E	*	*									F
	Toto	EcoUltramax RF	CST853E OR MS853113E OR MW853****E	550	SPS	WS	1	3		R	*	*									F
	Toto	EcoWhitney EL ADA	CST754EFN: C754EF bowl, ST754E tank	700	SPS		2	3		E	*	*									F
	Toto	Gwyneth EL ADA	CST604CEF (one-piece)	500	SPS		1	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
11-066	Tynan Plumbing	Cascade EL	4353: 0353.01 bowl, 1312.01 tank	400	WS	WS	2	2		E	*	*									F
11-065	Tynan Plumbing	Cascade EL ADA	4354: 0354.01 bowl, 1312.01 tank	450	WS	WS	2	2		E	*	*									F
11-067	Tynan Plumbing	Cascade RF	4352: 0352.01 bowl, 1312.01 tank	500	WS	WS	2	2		R	*	*									F
11-110	Tynan Plumbing	MacLair EL	4313: 0313 bowl, 1330FET3 tank	1,000			2	3		E	*	*									F
11-113	Tynan Plumbing	MacLair EL	4343: 0343 bowl, 1342HET tank	850	WS	WS	2	3		E	*	*									F
11-109	Tynan Plumbing	MacLair RF	4312: 0312 bowl, 1330FET3 tank	1,000			2	3		R	*	*									F
11-111	Tynan Plumbing	MacLair RF	4342: 0342 bowl, 1342HET tank	900	WS	WS	2	3		R	*	*									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
6-608	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	SPS		2	3		E	*	*									F
5/3/04	Vitra	Corina EL	5069 bowl, 5070 tank	850	SPS		2	3		E	*	*									F
5-551	Vitra	Corina EL (one-piece)	5178	750	SPS		1	3		E	*	*									F
5/3/04	Vitra	Corina RF	5068 bowl, 5070 tank	825	SPS		2	3		R	*	*									F
5-550	Vitra	Corina RF (one-piece)	5209	850	SPS		1	3		R	*	*									F
6-627	Vitra	Evergreen (formerly Arkitekt) EL ADA	5065 bowl, 5066 tank	500	SPS	WS	2	-	*	E	*	*									F
6-607	Vitra	Evergreen (formerly Corina) Dual Flush Comfort EL ADA	5074 bowl, 5055 tank	800	SPS	WS	2	2		E	*	*									F
10-108	Vitra	Evergreen (formerly Corina) Dual Flush RF	5076 bowl, 5055 tank	500	SPS	WS	2	-	*	R	*	*									F
9-048	Vitra	EverGreen EL ADA	5195 bowl, 5402 tank	600	WS	WS	2	2		E	*	*									F
9-047	Vitra	EverGreen RF ADA	5196 bowl, 5402 tank	800	WS	WS	2	2		R	*	*									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

Maximum Performance (MaP) of Toilet Fixtures

Appendix B - Sorted by Manufacturer

MaP Test Report No. (for internal use)	Make	Model Name	Model Number	Map Flush Performance (grams of solid waste removed from the toilet in a SINGLE flush)	Meets Los Angeles specification (SPS) for water savings sustainability	Certified to meet U.S. EPA WaterSense Specification	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 Bowl	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	Single-Flush Max 1.1-G (4-L) Pressure-Assist	Single-Flush Max 1.28 G (4.8 L) Gravity	Flushometer Valve (commercial)			
																					KEY: Flush performance (MaP score)
8-503	Vitra	Serenada EL ADA	4219-003-5265	800	SPS		2	3		E	*	*									F
	Vortens-Lamosa	Dali EL	5101 bowl, 5201 tank	350	WS	WS	2			E		*					HET				F
	Vortens-Lamosa	Delfos	3130	350	WS	WS	1					*					HET				F
	Vortens-Lamosa	Genova EL	3121 bowl, 3421 tank	450			2	2		E		*									F
	Vortens-Lamosa	GTA RF	3200 bowl, 3412 tank	300			2	2		E		*									F
	Vortens-Lamosa	Palermo EL	3126	350			1	2		E		*									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
10-049	Vortens-Lamosa	Rhodas EL ADA	3123V bowl, 3436SPS tank	600	SPS		2	2		E	*	*									F
5-535	Vortens-Lamosa	Rhodas EL ADA (HET)	3123 bowl, 3436 or 3433 tank	550	SPS	WS	2	-	*	E	*	*					HET				F
10-050	Vortens-Lamosa	Rhodas EL ADA (HET)	3123V bowl, 3436V tank	1,000	SPS	WS	2	-	*	E	*	*					HET				F
5-521	Vortens-Lamosa	Taza Vienna RF (Lined)	3208 bowl, 3464-S tank (lined)	550	SPS		2	2		R		*									F
5-520	Vortens-Lamosa	Taza Vienna RF (Unlined)	3208 bowl, 3464-R tank (unlined)	600	SPS		2	2		R		*									F
5-504	Vortens-Lamosa	Tornado EL	3138 bowl, 3468 tank	700	SPS	WS	2	-		E								HET			F
8-553	Vortens-Lamosa	Tornado EL ADA	3134 bowl, 3468 tank	1,000	SPS	WS	2	-		E	*							HET			F
10-051	Vortens-Lamosa	Vienna ELX	3113ELX bowl, 3436SPS tank	1,000	SPS		2	2		E		*									F
	Vortens-Lamosa	Vienna II RF	3208 bowl, 3412 tank	550			2	2		R		*									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	SPS		2	2		E		*									F
11-063	Vortens-Lamosa	Vienna RF	3208 bowl, 3436V tank	600	SPS		2	2		R		*						HET			F
10-053	Vortens-Lamosa	Vienna RF	3208 bowl, 3436SPS tank	500	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 RF	3209 bowl, 3412 tank	550			2	2		R		*									F
10-052	Vortens-Lamosa	Vienna Victory RF	3209 bowl, 3436SPS tank	600	SPS		2	2		R		*									F
8-552	Vortens-Lamosa	Vienna Victory RF	3209 bowl, 3464 tank	800	SPS		2	2		R		*									F
9-001	Vortens-Lamosa	Vienna Victory RF	3209 bowl, 3464-C tank	500	SPS		2	2		R		*									F
	Western Pottery	Aris 822 RF	822 bowl, ULF-8 tank	375			2	2		R		*									F
	Western Pottery	Clinton 832 EL	832 bowl, ULF-8 tank	300			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
10-138	Western Pottery	Typhoon 820 RF	820: B820 bowl, T8ULF-HP tank	1,000			2	3		R		*									F
10-139	Western Pottery	Typhoon 830 EL	830: B830 bowl, T8ULF-HP tank	800			2	3		E		*									F
10-140	Western Pottery	Typhoon 870 EL ADA	870: B870 bowl, T8ULF-HP tank	1,000			2	3		E	*	*									F
10-142	Western Pottery	Wrangler EL	432PF: B432PF bowl, T4ULF-PF tank	1,000	SPS		2	-		E				*							F
10-141	Western Pottery	Wrangler EL ADA	472PF: B472PF bowl, T4ULF-PF tank	1,000	SPS		2	-		E	*			*							F
10-117	Western Pottery	Wrangler One EL	B432 PF: 432 PF bowl, ULF-T4 tank	1,000	SPS		2	-		E								HET			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



Maximum Performance (MaP) of Toilet Fixtures

Appendix B - Sorted by Manufacturer

MaP Test Report No. (for internal use)	Make	Model Name	Model Number	KEY: Flush performance (MaP score)	Type of toilet fixture	Map Flush Performance (grams of solid waste removed from the toilet in a SINGLE flush)	Meets Los Angeles specification (SPS) for water savings sustainability	Certified to meet U.S. EPA WaterSense Specification	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 Bowl	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	Single-Flush Max 1.1-G (4-L) Pressure-Assist	Single-Flush Max 1.28 G (4.8 L) Gravity	Flushometer Valve (commercial)		
8-507	Zurn	EL ADA	Z5550: Z5550 bowl; Z5530/40/50 tank	400	6-L (1.6-gal) Pressure- or power-assist	400			2	2		E	*	*								F
8-508	Zurn	RF	Z5540: Z5520/40 bowl; Z5530/40/50 tank	400	4-L (1.1-gal) Pressure-assist (HET) Gravity-fed & Vacuum-assist 6-L (1.6-gal) Flushometer Bowl & Valve Combination (Commercial applications) 4.8-L (1.28-gal) Flushometer Bowl & Valve Combination HET (Commercial applications)	400			2	2		R		*								F

Key: RF – Round-front toilet bowl

EF – Elongated-front toilet bowl

S - Special bowl design

ADA-Meets bowl-height requirements of Americans with Disabilities Act; does NOT imply that fixture meets any other ADA requirements.

NE - Currently NOT ELIGIBLE for WaterSense or SPS designation; commercial flushometer valve toilet.

WS - Compliance established by meeting the requirements of the U.S. EPA WaterSense specification for high-efficiency toilets; certified to WaterSense

SPS - Qualified to the Los Angeles Supplementary Purchase Specification for durability and adjustability

**Maximum Performance (MaP) of Toilet Fixtures**

**Appendix C - Sorted by Performance**

Make	Model Name	Model Number	MaP Flush Performance (grams of solid waste removed from the toilet in a SINGLE flush)	Meets Los Angeles specification (SPS) for water savings sustainability	Certified to meet U.S. EPA WaterSense Specification	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 Bowl	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	Single-Flush Max 1.1-G (4-L) Pressure-Assist	Single-Flush Max 1.28 G (4.8 L) Gravity	Flushometer Valve (commercial)		
Komet	Deco RF	DE 627 bowl, DE 611 tank	75			2	2		R		*								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
Briggs	Abingdon III RF	4229: 4875 bowl, 4440 tank	150			2	2		R		*								F
Costco	WaterRidge EL	386082 (one-piece)	150			1	2		E		*			HET					F
Eljer	Canterbury RF	081-1620 (one-piece)	150			1	2		R		*								F
Eljer	Patriot RF (replaced with newer version)	091-2120: 131-2120 bowl; 141-2120 tank	150			2	2		R		*								F
Gerber	Aquasaver EL	21-712: 28-790 tank	150			2	2		E		*								F
Niagara	Niagara Turbo RF	N2220: 2220B bowl, 2220T tank	150			2	2		R		*								F
Orion	Iris RF	50073 bowl, 51073 tank	150			2	2		R		*								F
Pro-Flo (by Briggs for Ferguson)	Abingdon III RF	PF2200 bowl; PF3212 tank	150			2	2		R		*								F
Romax	Romax RF	3274-502: T6816 bowl, X6816 tank	150			2	2		R		*								F
Home Depot - Glacier Bay	Aragon IV RF	SKU 164-963 (note that SKU is identical to that of Aragon IV EL)	175			2	2		R		*								F
American Standard	Ravenna RF	3454 bowl, 4096 tank	200			2	2		R		*								F
Corona	Orchid RF	8510	200			2	2		R		*								F
St. Thomas	Marathon RF	6201.01	200			2	2		R		*								F
American Standard	Plebe EL	3344 bowl, 4392 tank,	225			2	2		E		*								F
<b>NOTE: Fixtures listed above this line do NOT meet the minimum (250 grams) waste removal performance requirements recommended by MaP Testing</b>																			
American Standard	Renaissance EL	2446: 3344 bowl, 4037 tank	250			2	2		E		*								F
Cascadian	EL	C5000 bowl; T5000 tank	250			2	3		E		*								F
Crane	Baby Bowl (NOTE: 10" child's bowl height)	3811: 3210 bowl, 3227 tank	250			2	3		R		*								F
Crane	Flormont EL	3186: 3184 bowl, 3546 tank (lined)	250	SPS		2	2		E		*								F
Crane	Flormont EL	3921: 3184 bowl, 3742 tank	250			2	3		E		*								F
Crane	Galaxy Cranada EL ADA	31149: 3815 bowl, 3740 tank	250			2	3		E	*	*								F
Duravit	Starck 2 EL (one piece)	16301 (one-piece)	250			1	3		E	*	*							R	W
Duravit	Starck 3 RF	220009 bowl, 111.335 in-wall tank (Geberit)	250			2	2		R	*	*			HET				R	W
Foremost	Rona Toilet-To-Go RF	TL-8257-TTG	250			2	2		R		*								F
Gerber	Maxwell EL ADA (10-inch rough-in)	21-417: 21-728 bowl, EH28-495 tank	250			2	2		E	*	*								F
Gerber	Maxwell EL ADA (14-inch rough-in)	21-424: 21-728 bowl, 28-494 tank	250			2	2		E	*	*								F
Gerber	Maxwell EL ADA (14-inch rough-in)	21-424: 21-728 bowl, EH28-494 tank	250			2	2		E	*	*								F
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
Jacuzzi	ERA Collection EL ADA (toilet in a box)	BK37959 (sold as a set)	250			2	3		E	*	*								F
Jacuzzi	Era EL	BM06	250			1	3		E		*								F
Kohler	Devonshire EL	K-3457: 4269 bowl, 4619 tank	250			2	2		E		*								F
Kohler	Memoirs RF	K-3452: 4257 bowl, 4454-U tank (lined)	250			2	2		R		*								F
Kohler	Sterling Riverton RF	402502: 404015 bowl, 404522 tank	250			2	2		R		*								F
Kohler	Wellworth EL	K-3422: 4276 bowl, 4620 tank	250			2	2		E		*								F
Niagara	Flapperless HET RF	N2225RB bowl, N2225T tank (model replaced by the Ecologic RF HET flapperless)	250	SPS		2	-	*	R						HET				F
Foremost	Classic RF	LL-1207 bowl, T-1207 tank	275			2	2		R		*								F
Mansfield	Alto RF	130 bowl, 161 tank	275			2	-	*	R		*								F
American Standard	Sonoma/Colony RF	3338 bowl, 4392 tank	300			2	2		R		*								F



**Maximum Performance (MaP) of Toilet Fixtures**

**Appendix C - Sorted by Performance**

Make	Model Name	Model Number	MaP Flush Performance (grams of solid waste removed from the toilet in a SINGLE flush)	Meets Los Angeles specification (SPS) for water savings sustainability	Certified to meet U.S. EPA WaterSense Specification	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 Bowl	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	Single-Flush Max 1.1-G (4-L) Pressure-Assist	Single-Flush Max 1.28 G (4.8 L) Gravity	Flushometer Valve (commercial)			
<b>KEY:</b>	<b>Flush performance (MaP score)</b>																			
			Less than 250 grams																	
			250 grams to 475 grams																	
			500 grams and more																	
	<b>Type of toilet fixture</b>																			
			6-L (1.6-gal) Pressure- or power-assist																	
			4-L (1.1-gal) Pressure-assist (HET)																	
			Gravity-fed & Vacuum-assist																	
			6-L (1.6-gal) Flushometer Bowl & Valve Combination (Commercial applications)																	
			4.8-L (1.28-gal) Flushometer Bowl & Valve Combination HET (Commercial applications)																	
Aquadis	CT-A1200 RF	CT-A1200 (bowl & tank models nos. not identified)	300			2	2		R		*									F
Cascadian	RF	C1101 bowl; T1102 tank	300			2	2		R		*									F
Duravit	Darling	020709 bowl, 111.335 in-wall tank (Geberit)	300			2	2		R	*	*								R	W
Duravit	Phillipe Starck RF (one piece)	16301.02 (one-piece)	300			1	3		R	*	*								R	W
Foremost	None - EL	TL-6800-WL: T-6800-WL bowl, LL-6800-W tank (lined)	300			2	2		E		*									F
Gerber	Maxwell EL (10-inch rough-in)	21-410: 21-762 bowl, 28-495 tank	300			2	2		E		*									F
Gerber	Maxwell EL (12-inch rough-in)	21-412: 21-762 bowl, EH 28-490 tank	300			2	2		E		*									F
Gerber	Maxwell EL (14-inch rough-in)	21-414: 21-762 bowl, EH 28-494 tank	300			2	2		E		*									F
Gerber	Maxwell EL ADA (10-inch rough-in)	21-417: 21-728 bowl, 28-495 tank	300			2	2		E	*	*									F
Gerber	Maxwell EL ADA (12-inch rough-in)	21-418: 21-728 bowl, 28-490 tank	300			2	2		E	*	*									F
Gerber	Maxwell EL ADA (12-inch rough-in)	21-418: 21-728 bowl, EH28-490 tank	300			2	2		E	*	*									F
Gerber	Maxwell RF (12-inch rough-in)	21-402: 21-752 bowl, 28-490 tank	300			2	2		R		*									F
Gerber	Maxwell RF (14-inch rough-in)	21-404: 21-752 bowl, EH28-494 tank	300			2	2		R		*									F
Home Depot - Aragon	Aragon IV EL	SKU 164-963 (one-piece, lined tank)	300			1	2		E		*									F
Home Depot - Glacier Bay	All-In-One RF	TG-4200-WL: also SKU 170-263	300			2	2		R		*									F
Home Depot - Westminster	Westminster EL	SKUs: 455-684 bowl, 455-685 tank (lined)	300			2	2		E		*									F
Jacuzzi	Perfecta EL ADA	BN30959 bowl, BN30-BN31 tank	300			2	3		E	*	*									F
Jacuzzi	Signa Collection EL	BA29-959 bowl, Y415-959 tank	300			2	2		E		*									F
Kohler	Wellworth RF	K-3423: 4277 bowl, 4620 tank	300			2	2		R		*									F
Niagara	None RF	N4416: N4416 bowl, N4415T tank	300	SPS		2	-	*	R											F
Quality Craft	None	2301 bowl, 2302 tank (lined) with pilot-type fill valve	300			2	2		R		*									F
Svena Int'l	Eago EL	TB109M	300			1	2.5		E		*									F
Vortens-Lamosa	GTA RF	3200 bowl, 3412 tank	300			2	2		R		*									F
Western Pottery	Clinton 832 EL	832 bowl, ULF-8 tank	300			2	2		E		*									F
Eljer	Toronto Savoy RF	091-0260: 131-2120 bowl, 141-0260 tank	325			2	2		R		*									F
Foremost	Premier / Lilas RF (one-piece)	TL-5101-L (one piece with lined tank)	325			1	2		R		*									F
Toto	Ultimate EL	854	325	SPS		1	3		E		*									F
<b>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</b>																				
Aquadis	Tytane EL	TY350 (one piece)	350			1	2		E		*									F
Caroma	Bondi 305 EL	609130 bowl, 726350 tank	350	WS	WS	2	-	*	E		*									F
Crane	Eco Opus III RF	31693: 31562 bowl, 31543 tank (insulated)	350	WS	WS	2	3		R											F
Crane	Hymont RF ADA	3H701 flushometer bowl only, tested w/1.6-gpf flushometer valve	350	NE	NE	1	-		R	*										F
Crane	Placidus RF ADA	3446 flushometer bowl only, tested w/1.6-gpf flushometer valve	350	NE	NE	1	-		R	*									R	W
Crane	VIP Flush EL	3996: 3991 bowl, 3976 tank	350			2	2		E			*								F
Foremost	None	TL-4000-WL (one-piece)	350	SPS		1	2		E		*									F
Foremost	None - EL	TL-7237-YL: LL-7237-Y bowl, T-7237-YL tank (lined)	350			2	3		E		*									F
Foremost	None - EL ADA	AIO1000-EW	350	WS	WS	2			E	*	*									F
Foremost	None - RF ADA	AIO1000-RW	350	WS	WS	2			R	*										F

Maximum Performance (MaP) of Toilet Fixtures

Appendix C - Sorted by Performance

Make	Model Name	Model Number	MaP Flush Performance (grams of solid waste removed from the toilet in a SINGLE flush)	Meets Los Angeles specification (SPS) for water savings sustainability	Certified to meet U.S. EPA WaterSense Specification	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 Bowl	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	Single-Flush Max 1.1-G (4-L) Pressure-Assist	Single-Flush Max 1.28 G (4.8 L) Gravity Flushometer Valve (commercial)		
Foremost	Plaza	TL-7107-WL: T7107 bowl, LL-7107 tank	350	WS	WS	2	-				*			HET			F	
Foremost	Regent RF	LL-5207 bowl, T-5207 tank	350			2	2		R		*						F	
Foremost (for Home Depot)	None EL ADA	BT6001 (Glacier Bay Home Depot SKU 331-725)	350	WS	WS	2			E	*	*				HET		F	
Gerber	Maxwell EL (12-inch rough-in)	21-412: 21-762 bowl, 28-490 tank	350			2	2		E		*						F	
Gerber	Ultra Dual Flush EL	DF-21-310: 21-374 bowl, DF-28-380 tank	350	WS	WS	2	-		E				*	HET		R	F	
Gerber	Ultra Flush EL	EF-21-310: 21-374 bowl, EF-28-380 tank	350	WS	WS	2			E						HET		R	
Globe Union Canada	StoneHouse EL (one-piece)	C220672 (one-piece)	350	SPS		1	2		E		*						F	
HCG	King EL	CS1003 King: C1003 bowl, S352 tank	350			2	3		E		*						F	
HCG	None - RF	CS9002DF: C9002 bowl, S9002DF tank	350			2	2		R		*			HET			F	
Home Depot - Glacier Bay (by Foremost)	None	SKU 331-725 (Foremost Model BT6001)	350	WS	WS											HET	F	
Home Depot - Pegasus (by Niagara)	Cottage EL ADA (Flapperless)	N2228: N2228B bowl, N2228T tank. Sold combined as Home Depot SKU 840-565	350	WS	WS	2	-	*	E							HET	F	
Kohler	Barrington Pressure Lite EL	K-3652: 4327 bowl, 4484 tank	350	WS	WS	2	-		E				*		HET	R	F	
Kohler	Persuade EL	K-3654: 4322 bowl, 4419 tank	350	SPS	WS	2	-		E		*			HET			F	
Kohler	San Raphael Pressure Lite EL ADA	K-3597 (one-piece)	350	WS	WS	1	-	*	E	*					HET		F	
Kohler	Sterling Rockton EL	402027: 402026 bowl, 402022 tank	350	SPS	WS	2	-	*	E		*			HET			F	
Kohler	Sterling Rockton RF	402024: 402021 bowl, 402022 tank	350	SPS	WS	2	-	*	R		*			HET			F	
Kohler	Sterling Stanton EL	402040: 402030 bowl, 402031 tank	350	SPS	WS	2	-	*	E		*			HET			F	
Mancesa	St. Michelle RF	2360 bowl, 4260 tank	350			2	2		R		*						F	
Niagara	Flapperless HET EL	N2228: N2228B bowl, N2228T tank. Also sold as Home Depot SKU 840-565	350	WS	WS	2	-	*	E							HET	F	
Niagara	None	N2310: 2310B bowl, 2310T tank	350	SPS	WS	2	-								HET		F	
Niagara	None EL ADA	N4417: N4417 bowl, N4415T tank	350	SPS		2	-	*	E	*					HET		F	
Pro-Flo	None - EL	PF1301: PF1301 bowl, PF 4112 tank	350			2	2		E		*						F	
Pro-Flo	None - EL ADA	PF1303: PF1303 bowl, PF 4112 tank	350			2	2		E	*	*						F	
Pro-Flo	None - RF	PF1300: PF1300 bowl, PF 4112 tank	350			2	2		R		*						F	
Toto	EcoSupreme Rf	CST863E OR MS863113E OR MW863***E	350	SPS	WS	1	3		E						HET		F	
Vortens-Lamosa	Dali EL	5101 bowl, 5201 tank	350	WS	WS	2			E		*			HET			F	
Vortens-Lamosa	Delfos	3130	350	WS	WS	1					*			HET			F	
Vortens-Lamosa	Palermo EL	3126	350			1	2		E		*						F	
Zurn	EL	Z5530: Z5510/30 bowl; Z5530/40/50 tank	350			2	2		E		*						F	
Briggs	Vacuity EL	4200: 4300 bowl, 4400 tank	375	SPS		2	2		E			*					F	
Foremost	Premier / Lilas RF	LL-8207 bowl, T-8207 tank (ALSO sold as combination TT-8207-WL)	375			2	2		R		*						F	
Pro-Flo (by Briggs for Ferguson)	Vacuity EL	PF3201 bowl; PF3612 tank	375			2	2		E			*					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	
Bolina	Italiana EL	3031: 3031 bowl, 3031 tank	400			2	2		E		*			HET			F	
Briggs	Maelstrom RF	4390 bowl, 4490 tank	400			2	3		R		*						F	
Capizzi	Turbo Capizzi Low Profile EL	0478 bowl, 1513 tank	400	SPS		2	-		E						HET		F	
Ceralux/Mancesa	Windsor RF	2700 bowl, 2711 tank	400			2	2		R		*						F	
Crane	Atlas/Atlanta RF	31012N: 31047N bowl, 31742N tank	400	SPS		2	2		R		*						F	
Crane	Flormont EL ADA	3922: 3191 bowl, 3742 tank	400			2	3		E	*	*						F	

**Maximum Performance (MaP) of Toilet Fixtures**

**Appendix C - Sorted by Performance**

Make	Model Name	Model Number	MaP Flush Performance (grams of solid waste removed from the toilet in a SINGLE flush)	Meets Los Angeles specification (SPS) for water savings sustainability	Certified to meet U.S. EPA WaterSense Specification	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 Bowl	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	Single-Flush Max 1.1-G (4-L) Pressure-Assist	Single-Flush Max 1.28 G (4.8 L) Gravity	Flushometer Valve (commercial)			
Crane	Shiloh EL	31731 (one piece)	400			1			E		*								F	
Crane	Whirlton RF	3327 flushometer bowl only, tested w/1.6-gpf flushometer valve	400	NE	NE	1	-		R										F	
Duravit	2nd Floor (ADA optional)	220509 bowl, 111.335 in-wall tank (Geberit)	400			2	2		S	*	*			HET					R	W
Eljer	Patriot EL	091-2125: 131-2125 bowl, 141-2120 tank	400			2	2		E		*									F
Eljer	Patriot RF (replaces earlier version of Patriot RF)	091-2120: 131-2120 bowl, 141-2120 tank	400			2	2		R		*									F
Eljer	Toronto Patriot RF	091-2020: 131-2120 bowl; 141-2020 tank	400			2	2		R		*									F
Eljer	Toronto Savoy EL	091-0265: 131-2125 bowl, 141-0260 tank	400			2	2		E		*									F
Foremost	Colonade EL ADA	TL-6010-E: LL-6010-E bowl, T-6010 tank	400			2	3		E	*	*									F
Foremost	None EL ADA	TL-7600HC-HET-Y: LL-7600HC-HET bowl, HET tank	400	WS	WS	2			E	*	*				HET					F
Gerber	Aquasaver EL (one-piece)	21-015	400			1	2		E		*									F
Gerber	Maxwell EL (10-inch rough-in)	21-410: 21-762 bowl, EH 28-495 tank	400	SPS		2	2		E		*									F
Gerber	Maxwell EL (14-inch rough-in)	21-414: 21-762 bowl, 28-494 tank	400			2	2		E		*									F
Gerber	Maxwell RF (10-inch rough-in)	21-400: 21-752 bowl, 28-495 tank	400			2	2		R		*									F
Gerber	Maxwell RF (10-inch rough-in)	21-400: 21-752 bowl, EH28-495 tank	400			2	2		R		*									F
Gerber	Maxwell RF (12-inch rough-in)	21-017 (one piece)	400			1	2		R		*									F
Gerber	Maxwell RF (12-inch rough-in)	21-402: 21-752 bowl, EH28-490 tank	400			2	2		R		*									F
HCG	None - EL	CS9001DF: C9001 bowl, S9002DF tank	400			2	2		E		*			HET						F
HCG	None - EL ADA	CS1001: C1001 bowl, S1001 tank	400			2	3		E	*	*									F
HCG	Queen EL	CS1003 Queen: C1003 bowl, S353 tank	400			2	3		E		*									F
Home Depot - Glacier Bay (by Niagara)	None - EL ADA (Flapperless)	SKUs: 382-298 bowl, 382-438 tank	400			2	-		E	*	*									F
Home Depot - Pegasus	Colonade EL ADA	SKU 160-406 bowl, 152-143 tank	400			2	3		E	*	*									F
Home Depot - Pegasus	Tulip EL (See Vortens-Lamosa)	SKU 477-546: 3107 bowl, 3427 tank	400	SPS		2	-	*	E		*			HET						F
Kohler	Sterling Karsten Dual Force EL	402028: 402026 bowl, 402023 tank	400	SPS	WS	2	2	*	E		*			HET						F
Mancesa/Ceralux	Windsor RF	2700 bowl, 2711 tank	400			2	2		R		*									F
Mansfield	None - RF	103 bowl, 109 tank	400			2	3		R		*									F
Niagara	None EL ADA	N2226: 2226B bowl, 2216T tank	400			2	-	*	E	*	*									F
Peerless Pottery (by Capizzi)	Predator Low Profile EL	606 bowl, 1 tank	400	SPS		2	-		E					HET						F
Pro-Flo (by Briggs for Ferguson)	Maelstrom RF	PF8203 bowl; PF8212 tank	400			2	3		R		*									F
Pro-Flo (by Tynan for Ferguson)	Cascade EL	PF9301 bowl; PF9312 tank	400	SPS	WS	2	2		E		*			HET						F
Quality Craft	Sylvia RF	2301 bowl, 2302 tank with ballcock fill valve	400			2	2		R		*									F
Toto	Ultimate RF	853	400	SPS		1	3		R		*									F
Tynan Plumbing	Cascade EL	4353: 0353.01 bowl, 1312.01 tank	400	WS	WS	2	2		E		*			HET						F
Vortens-Lamosa	Pegasus Tulip EL (Home Depot brand)	3107 bowl, 3427 tank (HD SKU 477-546)	400	SPS		2	-	*	E		*			HET						F
Western Pottery	Dual Flush EL	812 DF bowl, ULF-8 DF tank	400			2	2		E		*			HET						F
Zurn	EL ADA	Z5550: Z5550 bowl; Z5530/40/50 tank	400			2	2		E	*	*									F
Zurn	RF	Z5540: Z5520/40 bowl; Z5530/40/50 tank	400			2	2		R		*									F
Eljer	Patriot Savoy EL ADA	091-0285: 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
Caroma	Bondi 305 CC RF	609151 bowl, 726350 tank	450	SPS	WS	2	-	*	R		*			HET						F
Pro-Flo (by Tynan for Ferguson)	Cascade EL ADA	PF9304 bowl; PF9312 tank	450	SPS	WS	2	2		E	*	*			HET						F

**Maximum Performance (MaP) of Toilet Fixtures**

**Appendix C - Sorted by Performance**

Make	Model Name	Model Number	MaP Flush Performance (grams of solid waste removed from the toilet in a SINGLE flush)	Meets Los Angeles specification (SPS) for water savings sustainability	Certified to meet U.S. EPA WaterSense Specification	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 Bowl	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	Single-Flush Max 1.1-G (4-L) Pressure-Assist	Single-Flush Max 1.28 G (4.8 L) Gravity	Flushometer Valve (commercial)		
Tynan Plumbing	Cascade EL ADA	4354: 0354.01 bowl, 1312.01 tank	450	WS	WS	2	2		E	*	*			HET					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
Aquadis	DecoKit RF	TI 627 bowl, FL 610 tank	500			2	2		R		*								F
Briggs	Vacuity RF	4210: 4310 bowl, 4400 tank	500	SPS		2	2		R			*							F
Capizzi	Turbo Capizzi High Profile EL	0478 bowl, 1578 tank	500	SPS		2	-		E					HET					F
Capizzi	Turbo Capizzi Low Profile EL ADA	0441 bowl, 1513 tank	500	SPS		2	-		E	*				HET					F
Caroma	Caravelle 270 EL	609100 bowl, 629435 tank	500	SPS	WS	2	-	*	E		*			HET					F
Caroma	Caravelle 270 RF	989760: 609159 bowl, 629435 tank	500	SPS	WS	2	-	*	R		*			HET					F
Caroma	Caravelle 305 EL	609130 bowl, 629435 tank	500	SPS	WS	2	-	*	E		*			HET					F
Caroma	Caravelle One-Piece RF	989646	500	SPS	WS	1	-	*	R		*			HET					F
Caroma	Reflections 270 EL	609100 bowl, 629530 tank	500			2	-	*	E		*			HET					F
Caroma	Sydney 270 EL	609100 bowl, 622320 tank	500	WS	WS	2	-	*	E		*			HET					F
Caroma	Sydney 305 EL	609130 bowl, 622320 tank	500	SPS	WS	2	-	*	E		*			HET					F
Caroma	Walvit EL (ADA optional)	604119 bowl, 227001 tank (concealed in-wall)	500			2	-	*	E	*	*			HET			R	W	
Ceralux/Mancesa	San Marino EL ADA	2262 bowl, 2261 tank	500			2	2		E	*	*								F
Crane	Eco Galaxy/Cranada EL	31008: 3372 bowl, 31590 tank	500	WS	WS	2	-		E		*			HET					F
Crane	Eco Galaxy/Cranada RF	31007: 3352 bowl, 31590 tank	500	WS	WS	2	-		R		*			HET					F
Crane	Eco Saratoga EL	31973: 3372 bowl, 31964 tank	500	WS	WS	2	-		E		*			HET					F
Crane	Galaxy Cranada EL	31514: 3372 bowl, 31744 tank	500			2	3		E		*								F
Crane	Galaxy Cranada EL	3790: 3372 bowl, 3740 tank	500			2	3		E		*								F
Crane	Galaxy Cranada EL	3792: 3372 bowl, 3742 tank	500	SPS		2	2		E		*								F
Crane	Galaxy Cranada EL	3793: 3372 bowl, 3743 tank	500	SPS		2	2		E		*								F
Crane	Galaxy Cranada RF	31504: 3352 bowl, 31744 tank	500			2	3		R		*								F
Crane	Galaxy Cranada RF	3782: 3352 bowl, 3742 tank	500	SPS		2	2		R		*								F
Crane	Galaxy Cranada RF	3783: 3352 bowl, 3743 tank	500	SPS		2	2		R		*								F
Crane	San Walton EL	3481 flushometer bowl only, tested w/1.6-gpf flushometer valve	500	NE	NE	1	-		E										F
Crane	San Walton EL	3484 flushometer bowl only, tested w/1.6-gpf flushometer valve	500	NE	NE	1	-		E										F
Eljer	Patriot EL ADA	091-2175: 131-2175 bowl, 141-2120 tank	500			2	2		E	*	*								F
Eljer	Patriot Savoy EL	091-0225: 131-2125 bowl, 141-0220 tank	500			2	2		E		*								F
Foremost	Gemini Dual-Flush RF ADA	TL-2100-WL (one-piece)	500			1	2	*	R	*	*			HET					F
Foremost	None - EL ADA	TL-6010E-WL: LL-6010-EW bowl, T-6010-WL tank (lined)	500			2	3		E	*	*								F
Foremost	None RF	4710BFZ (one piece with insulated tank)	500			1	2.5		R		*			HET					F
Gerber	Allerton EL (14-inch rough-in)	20-006: 21-572 bowl, 28-584 tank	500			2	2		E		*								F
Gerber	Maurice EL	20-012 (one-piece)	500	SPS		1	-		E			*							F
Gerber	Viper EL	21-514: 21-562 bowl, EH28-594 tank	500	SPS		2	2		E		*								F
Gerber	Viper RF	21-500: 21-552 bowl, EH28-595 tank	500	SPS		2	2		R		*								F
Gerber	Viper RF	21-504: 21-552 bowl, EH28-594 tank	500	SPS		2	2		R		*								F
Home Depot - Pegasus	Colonade EL ADA	SKUs: 146-548 bowl, 146-283 tank (lined)	500			2	3		E	*	*								F
Kohler	Santa Rosa EL	K-3323	500			1	2		E		*								F
Mancesa/Ceralux	San Marino EL ADA	2262 bowl, 2261 tank	500			2	2		E	*	*								F

Maximum Performance (MaP) of Toilet Fixtures

Appendix C - Sorted by Performance

Make	Model Name	Model Number	MaP Flush Performance (grams of solid waste removed from the toilet in a SINGLE flush)	Meets Los Angeles specification (SPS) for water savings sustainability	Certified to meet U.S. EPA WaterSense Specification	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 Bowl	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	Single-Flush Max 1.1-G (4-L) Pressure-Assist	Single-Flush Max 1.28 G (4.8 L) Gravity Flushometer Valve (commercial)		
Niagara	Ecologic RF HET (Flapperless)	N2225R: N2225RB bowl, N2225T tank (note that tank and bowl model nos. are identical to those of the older Flapperless RF HET)	500	SPS	WS	2	-		R							HET		F
Niagara	None EL	N4418 (one piece)	500	SPS		1	-	*	E							HET		F
Peerless Pottery (by Capizzi)	Predator EL ADA	608 bowl, 1 tank	500	SPS		2	-		E	*						HET		F
Pro-Flo (by Briggs for Ferguson)	Vacuity RF	PF3205 bowl; PF3612 tank	500			2	2		R			*						F
Pro-Flo (by Tynan for Ferguson)	Cascade RF	PF9300 bowl; PF9312 tank	500	SPS	WS	2	2		R		*					HET		F
RAK Ceramics	Venice EL	VN03 bowl, VN10 tank	500			2	2		E		*					HET		F
Toto	EcoClayton	CST784EF: C784EF bowl, ST784E tank	500	SPS		2	3		E	*						HET		F
Toto	EcoDrake RF	CST743E: C743E bowl, ST743E tank	500	SPS	WS	2	3		R							HET		F
Toto	EcoNexus EL ADA	CST794EF: CT794EF bowl, ST794E tank	500	SPS	WS	2	3		E	*						HET		F
Toto	EcoSupreme EL	CST864E OR MS864114E OR MW864***E	500	SPS	WS	1	3		E							HET		F
Toto	EcoUltramax EL	CST854E OR MS854114E OR MW854***E	500	SPS	WS	1	3		E							HET		F
Toto	EcoUltramax EL ADA	CST854EL OR MS854114EL OR MW854***EL	500	SPS	WS	1	3		E	*						HET		F
Toto	Gwyneth EL ADA	CST604CEF (one-piece)	500	SPS		1	3		E	*						HET		F
Tynan Plumbing	Cascade RF	4352: 0352.01 bowl, 1312.01 tank	500	WS	WS	2	2		R		*					HET		F
Vitra	Evergreen (formerly Arkitekt) EL ADA	5065 bowl, 5066 tank	500	SPS	WS	2	-	*	E	*						HET		F
Vitra	Evergreen (formerly Corina) Dual Flush RF	5076 bowl, 5055 tank	500	SPS	WS	2	-	*	R		*					HET		F
Vortens-Lamosa	Vienna RF	3208 bowl, 3436SPS tank	500	SPS		2	2		R		*							F
Vortens-Lamosa	Vienna Victory RF	3209 bowl, 3464-C tank	500	SPS		2	2		R		*							F
American Standard	FloWise EL	2073.013: 3018 bowl, 4023.013 tank (this model to be discontinued & replaced by 2073.014)	550	SPS		2	3	*	E							HET		F
Caroma	Bondi 270 EL	609100 bowl, 726350 tank	550	WS	WS	2	-	*	E		*					HET		F
Caroma	Bondi 270 RF ADA	607177 bowl, 726350 tank	550	WS	WS	2	-	*	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			*					R	F
Eljer	Aquasaver EL	091-7025: 131-7025 bowl, 141-7000 tank	550	SPS		2	-		E				*					F
Foremost	None RF	4710BFTU (one piece)	550			1	2.5		R		*							F
Foremost	None RF	4720BFTU combination	550			2	2		R		*					HET		F
Foremost	None RF	4722BFT bowl, 4721BFTU tank	550			2	2		R		*							F
Mansfield	EcoQuantum EL	149 bowl, 119 tank	550	SPS	WS	2	-		E				*			HET		R F
Mansfield	Montclair EL ADA	107 bowl, 108 tank	550			2	3		E	*	*							F
Mansfield	Quantum EL (rear discharge)	149 bowl, 123 tank	550	SPS		2	-		E				*				R	F
Toto	CST703 RF	703: C703 bowl, ST703 tank	550			2	2		R		*							F
Toto	EcoUltramax RF	CST853E OR MS853113E OR MW853***E	550	SPS	WS	1	3		R							HET		F
Vortens-Lamosa	Rhodas EL ADA (HET)	3123 bowl, 3436 or 3433 tank	550	SPS	WS	2	-	*	E	*	*					HET		F
Vortens-Lamosa	Taza Vienna RF (Lined)	3208 bowl, 3464-S tank (lined)	550	SPS		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
American Standard	Champion 4 EL (one-piece)	2004 (one-piece)	600	SPS		1	3		E		*							F
Briggs	Altima III RF	4232: 4320 bowl, 4430 tank	600			2	2		R		*							F
Briggs	Kingsley RF	6083-130 (one piece)	600			1	3		R		*							F
Briggs	Maelstrom EL	4395 bowl, 4490 tank	600			2	3		E		*							F
Briggs	Maelstrom EL ADA	4398 bowl, 4490 tank	600			2	3		E	*	*							F

**Maximum Performance (MaP) of Toilet Fixtures**

**Appendix C - Sorted by Performance**

Make	Model Name	Model Number	MaP Flush Performance (grams of solid waste removed from the toilet in a SINGLE flush)	Meets Los Angeles specification (SPS) for water savings sustainability	Certified to meet U.S. EPA WaterSense Specification	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 Bowl	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	Single-Flush Max 1.1-G (4-L) Pressure-Assist	Single-Flush Max 1.28 G (4.8 L) Gravity	Flushometer Valve (commercial)		
Caroma	Bondi 270 CC RF	609159 bowl, 726350 tank	600	SPS	WS	2	-	*	R		*			HET					F
Caroma	Colonial 270 RF	605310 bowl, 625070 tank	600	SPS	WS	2	-	*	R		*			HET					F
Caroma	Reflections 305 RF	609151 bowl, 629530 tank	600	SPS		2	-	*	R		*			HET					F
Caroma	Royale 270 RF	609159 bowl, 624530 tank	600	WS	WS	2	-	*	R		*			HET					F
Caroma	Royale 305 RF	609151 bowl, 624530 tank	600	SPS	WS	2	-	*	R		*			HET					F
Caroma	Sydney 270 RF	609159 bowl, 622320 tank	600	WS	WS	2	-	*	E		*			HET					F
Caroma	Sydney 270 RF ADA	609177 bowl, 622320 tank	600	WS	WS	2	-	*	E	*	*			HET					F
Crane	Eco Galaxy/Cranada RF	31067: 3352 bowl, 31593 tank (insulated)	600	WS	WS	2	-		R		*			HET					F
Crane	Eco Opus III RF	31692: 31562 bowl, 31542 tank	600	WS	WS	2	3		R							HET			F
Crane	Eco Saratoga RF	31972: 3352 bowl, 31964 tank	600	WS	WS	2			R		*			HET					F
Crane	San Walton EL ADA	31080 flushometer bowl only, tested w/1.6-gpf flushometer valve	600	NE	NE	1	-		E	*									F
Duravit	Happy D RF	017009 bowl, 091000-05 tank	600			2	2		R	*	*			HET			R	W	
Duravit	Happy D Wallmount RF	017109 bowl, 111.335 in-wall tank (Geberit)	600			2	2		R	*	*			HET			R	W	
Eljer	Canterbury EL (one piece)	081-3025 (one-piece)	600			1	3		E	*	*								F
Eljer	Toronto Patriot EL	091-2025: 131-2125 bowl; 141-2020 tank	600			2	2		E	*	*								F
Foremost	None - EL ADA	TL-6010E-W: LL-6010-EW bowl, T-6010-W tank	600			2	3		E	*	*								F
Foremost	None - RF	TT-2010-WL: LL-2010 bowl, T-2010 tank (lined)	600	WS	WS	2	2.5		R	*	*			HET					F
Foremost	None EL	4722BET bowl, 4721BFTU tank	600			2	2		E	*	*								F
Foremost	None EL ADA	4722BFT bowl, 4721BFTU tank	600			2	2		E	*	*								F
Foremost	None EL ADA	4722BIT bowl, 4721BFT tank (lined)	600			2	2		E	*	*								F
Foremost	None RF	4710BFT (lined tank)	600			1	2.5		R	*	*								F
Foremost	None RF	4710BFZU (one piece)	600			1	2.5		R	*	*			HET					F
Foremost	None RF	4720BFZ combination (lined tank)	600			2	2		R	*	*			HET					F
Foremost	None RF	4722BFT bowl, 4721BFT tank (lined)	600			2	2		R	*	*								F
Gerber	Allerton EL (12-inch rough-in)	20-004: 21-572 bowl, 28-580 tank	600			2	2		E	*	*								F
Gerber	Brianne EL	20-013 (one-piece)	600	SPS		1	-		E			*							F
Gerber	Maxwell RF (14-inch rough-in)	21-404: 21-752 bowl, 28-494 tank	600			2	2		R	*	*								F
Gerber	Viper EL ADA	21-517: 21-528 bowl, 28-595 tank	600			2	2		E	*	*								F
Gerber	Viper EL ADA	21-524: 21-528 bowl, 28-594 tank	600			2	2		E	*	*								F
Gerber	Viper EL ADA	21-524: 21-528 bowl, EH28-594 tank	600	SPS		2	2		E	*	*								F
Gerber	Viper RF	21-500: 21-552 bowl, 28-595 tank	600			2	2		R	*	*								F
Gerber	Viper RF	21-502: 21-552 bowl, 28-590 tank	600			2	2		R	*	*								F
Gerber	Viper RF	21-502: 21-552 bowl, EH28-590 tank	600	SPS		2	2		R	*	*								F
Gerber	Viper RF	21-504: 21-552 bowl, 28-594 tank	600			2	2		R	*	*								F
Home Depot - Pegasus	Colonade EL ADA	SKUs: 160-406 bowl, 152-143 tank	600			2	3		E	*	*								F
Kohler	Cimarron EL	K-3499: 4285 bowl, 4634 tank (option at 1.4-g)	600	SPS		2	3		E	*	*								F
Mansfield	Magnum EL	722	600			1	3		E	*	*								F
Niagara	Flapperless Muskoka EL ADA	N2217: 2217 bowl, 2217 tank	600			2	-	*	E	*	*								F
Niagara	Flapperless Muskoka RF ADA	N2217R: 2217R bowl, 2217 tank	600			2	-	*	R	*	*								F
Niagara	Flapperless Superior EL	N2218	600			1	-	*	E	*	*								F
Pro-Flo (by Briggs for Ferguson)	Altima III RF	PF1200 bowl; PF3112 tank	600			2	2		R	*	*								F
Pro-Flo (by Briggs for Ferguson)	Maelstrom EL	PF8200 bowl; PF8212 tank	600			2	3		E	*	*								F
Pro-Flo (by Briggs for Ferguson)	Maelstrom EL ADA	PF8201 bowl; PF8212 tank	600			2	3		E	*	*								F



**Maximum Performance (MaP) of Toilet Fixtures**

**Appendix C - Sorted by Performance**

Make	Model Name	Model Number	MaP Flush Performance (grams of solid waste removed from the toilet in a SINGLE flush)	Meets Los Angeles specification (SPS) for water savings sustainability	Certified to meet U.S. EPA WaterSense Specification	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 Bowl	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	Single-Flush Max 1.1-G (4-L) Pressure-Assist	Single-Flush Max 1.28 G (4.8 L) Gravity Flushometer Valve (commercial)		
<b>RAK Ceramics</b>	Washington Syphonic EL	171 bowl, WT20 tank	600			2	3		E		*							F
<b>Toto</b>	EcoDrake EL	CST744E: C744E bowl, ST743E tabj	600	SPS	WS	2	3		E									F
<b>Vitra</b>	Atlantis EL ADA	5052 bowl, 6853 tank	600	SPS		2	2		E	*	*							F
<b>Vitra</b>	EverGreen EL ADA	5195 bowl, 5402 tank	600	WS	WS	2	2		E	*								F
<b>Vortens-Lamosa</b>	Rhodas EL ADA	3123V bowl, 3436SPS tank	600	SPS		2	2		E	*	*							F
<b>Vortens-Lamosa</b>	Taza Vienna RF (Unlined)	3208 bowl, 3464-R tank (unlined)	600	SPS		2	2		R		*							F
<b>Vortens-Lamosa</b>	Vienna RF	3208 bowl, 3436V tank	600	SPS		2	2		R		*			HET				F
<b>Vortens-Lamosa</b>	Vienna Victory RF	3209 bowl, 3436SPS tank	600	SPS		2	2		R		*							F
<b>Gerber</b>	Ultra Flush (rear discharge)	21-310: 21-374 bowl, 28-380 tank	625	SPS		2	-		E				*				R	F
<b>Toto</b>	Carlyle EL	874	625			1	3		E		*							F
<b>Briggs</b>	Vacuity EL	4245: 4345 bowl, 4400 tank	650	SPS		2	2		E			*					R	F
<b>Caroma</b>	Caravelle 305 RF	989680: 609151 bowl, 629435 tank	650	SPS	WS	2	-	*	R		*			HET				F
<b>Caroma</b>	Reflections 270 RF	989720: 609159 bowl , 629530 tank	650	SPS		2	-	*	R		*			HET				F
<b>Caroma</b>	Sydney Smart 305 RF (1.28-gpf-0.8-gpf dual flush)	609151A bowl, 622322 tank	650	WS	WS	2	-	*	R					HET				F
<b>Foremost</b>	None EL	4722BET bowl, 4721BFT tank (lined)	650			2	2		E		*							F
<b>Mancesa</b>	Cyclone 4 EL	2282 bowl, 2281 tank	650	SPS		2	-		E						HET			F
<b>Mansfield</b>	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
<b>Pro-Flo (by Briggs for Ferguson)</b>	Vacuity EL	PF3200 bowl; PF3612 tank	650			2	2		E			*					R	F
<b>RAK Ceramics</b>	Compact Syphonic EL ADA	CT30 bowl, CT65 tank	650			2	3		E	*	*							F
<b>Toto</b>	Carusoe RF	715: C715 bowl, ST706 tank	650			2	2		R		*							F
<b>Toto</b>	Dalton EL ADA	734: C734F bowl, ST733 tank	650			2	2		E	*	*							F
<b>Toto</b>	Clayton EL ADA (nee Baldwin)	784: C784SF bowl, ST784S tank	675			2	3		E	*	*							F
<b>Toto</b>	Plymouth EL	924	675	SPS		1	3		E		*							F
<b>Briggs</b>	Hathaway Vacuity EL	4360 bowl, 4460 tank	700			2	2		E			*						F
<b>Caroma</b>	Adelaide 270 Cube EL	834000 bowl, 814790 tank	700	SPS	WS	2	-	*	E		*			HET				F
<b>Caroma</b>	Adelaide 270 Standard EL	834000 bowl, 814328 tank	700	SPS	WS	2	-	*	E		*			HET				F
<b>Foremost</b>	Moline EL	TL-8267-L: LL-8267 bowl, T-8267 tank (lined)	700			2	2.5		E		*			HET				F
<b>Foremost</b>	Regent RF	TL-5200-WL (one piece with lined tank)	700			1	2		R		*							F
<b>Pro-Flo (by Briggs for Ferguson)</b>	Hathaway Vacuity EL	PF2200 bowl; PF3212 tank	700			2	2		E			*						F
<b>Toto</b>	EcoDartmouth EL ADA	CST754EF: C754EF bowl, ST753E tank	700	SPS		2	3		E	*							HET	F
<b>Toto</b>	EcoWhitney EL ADA	CST754EFN: C754EF bowl, ST754E tank	700	SPS		2	3		E	*							HET	F
<b>Toto</b>	Neorest EL	600	700	SPS		1	-	*	E				*					F
<b>Toto</b>	Ultramax EL	854xxxS	700	SPS		1	3		E		*							F
<b>Vitra</b>	Riva EL	4117 bowl, 6952 tank	700			2	3		E		*							F
<b>Vortens-Lamosa</b>	Tornado EL	3138 bowl, 3468 tank	700	SPS	WS	2	-		E						HET			F
<b>Crane</b>	VIP Flush RF	3995: 3990 bowl, 3976 tank	725	SPS		2	2		R			*						F
<b>Niagara</b>	Flapperless RF	N2216: 2216B bowl, 2216T tank	725			2	-	*	R		*							F
<b>American Standard</b>	Cadet EL	2333: 4098 tank, 3099 bowl	750	SPS		2	-		E				*					F
<b>American Standard</b>	FloWise EL	2073.014: 3018 bowl, 4023.014 tank	750	SPS	WS	2	3	*	E								HET	F
<b>Foremost</b>	Premier EL	TL-5100-WL (one piece with lined tank)	750			1	2		E		*							F
<b>Vitra</b>	Altantis EL	5051 bowl, 6853 tank	750	SPS		2	2		E		*							F
<b>Vitra</b>	Corina EL (one-piece)	5178	750	SPS		1	3		E		*							F

Maximum Performance (MaP) of Toilet Fixtures

Appendix C - Sorted by Performance

Make	Model Name	Model Number	MaP Flush Performance (grams of solid waste removed from the toilet in a SINGLE flush)	Meets Los Angeles specification (SPS) for water savings sustainability	Certified to meet U.S. EPA WaterSense Specification	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 Bowl	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	Single-Flush Max 1.1-G (4-L) Pressure-Assist	Single-Flush Max 1.28 G (4.8 L) Gravity	Flushometer Valve (commercial)		
American Standard	Colony RF	4392.016 tank, 3038 bowl	775			2	2		R		*								F
American Standard	Colony RF (lined tank)	4392.500 LINED tank, 3038 bowl	775			2	2		R		*								F
American Standard	Afwall FloWise EL	3351.128 flushometer bowl only (top spud); tested w/1.2-gpf flushometer valve	800	NE	NE	1	-		E	*							HET	R	W
American Standard	Afwall FloWise EL	3352.128 flushometer bowl only (top spud; w/bedpan lugs); tested w/1.2-gpf flushometer valve	800	NE	NE	1	-		E	*							HET	R	W
American Standard	Cadet 3 EL (10" rough-in)	2383.010: 3014 bowl, 4019 tank	800	SPS		2	3		E		*								F
American Standard	Cadet 3 EL (12" rough-in)	2383.012: 3014 bowl, 4021.500 LINED tank	800	SPS		2	3		E		*								F
American Standard	Champion 4 EL ADA (one-piece)	2034.314 (one-piece)	800	SPS		1	3		E	*	*								F
American Standard	Champion RF	2023: 3110 bowl, 4260 tank	800	SPS		2	3	*	R		*								F
American Standard	Champion Select RF	2035: 3110 bowl, 4272 tank	800	SPS		2	3	*	R		*								F
American Standard	Doral Champion RF	2369: 3110 bowl, 4272 tank	800	SPS		2	3	*	R		*								F
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	*			*					R	W
Aquadis	Liverpool EL ADA	Fl 629 bowl, FL 610 tank	800			2	2		E	*	*								F
Briggs	Kingsley EL	6087 (one piece)	800			1	3		E	*	*								F
Caroma	Caravelle 1-Piece EL ADA	989668	800	SPS	WS	1	-	*	E	*	*					HET			F
Caroma	Caravelle 270 EL ADA	609120 bowl, 629435 tank	800	SPS	WS	2	-	*	E	*	*					HET			F
Caroma	Caravelle 270 RF ADA	989770: 609177 bowl, 629435 tank	800	SPS	WS	2	-	*	R	*	*					HET			F
Caroma	Royale 270 EL	609100 bowl, 624530 tank	800	WS	WS	2	-	*	E	*	*					HET			F
Crane	Classic III EL ADA	31512: 31852 bowl, 31822 tank	800			2	3		E	*	*								F
Crane	EcoWhirlton EL	3325 flushometer bowl only, tested w/1.2-gpf flushometer valve	800	NE	NE	1	-		E								HET		F
Crane	Opus III EL	31672: 31572 bowl, 31552 tank	800			2	3		E										F
Crane	Opus III EL ADA	31682: 31582 bowl, 31552 tank	800			2	3		E	*	*								F
Crane	San Walton EL	3480 flushometer bowl only, tested w/1.6-gpf flushometer valve	800	NE	NE	1	-		E										F
Crane	San Walton EL ADA	31082 flushometer bowl only, tested w/1.6-gpf flushometer valve	800	NE	NE	1	-		E	*									F
Crane	San Walton EL ADA	31083 flushometer bowl only, tested w/1.6-gpf flushometer valve	800	NE	NE	1	-		E	*									F
Crane	SureFlush EL	31362: 31202 bowl, 31242 tank	800	SPS		2	3		E		*								F
Crane	Sureflush EL	31363: 31202 bowl, 31243 tank	800			2	3		E		*								F
Crane	Sureflush RF	31353: 31192 bowl, 31243 tank	800			2	3		R		*								F
Eljer	Power 1-G EL	091-7625: 131-7625 bowl; 141-7600 tank	800	SPS		2	-		E								HET		F
Eljer	Power 1-G EL ADA	091-7675: 131-7675 bowl; 141-7600 tank	800	SPS		2	-		E	*							HET		F
Eljer	Toronto Patriot EL ADA	091-2075: 131-2175 bowl; 141-2020 tank	800			2	2		E	*	*								F
Foremost	Gemini Dual-Flush RF	TL-2005-L: LL-2005 bowl, T-2005-L tank (lined)	800			2	2	*	R	*	*					HET			F
Gerber	Allerton EL ADA (10-inch rough-in)	20-008: 21-577 bowl, 28-585 tank	800			2	2		E	*	*								F
Gerber	Allerton EL ADA (12-inch rough-in)	20-002: 21-577 bowl, 28-580 tank	800			2	2		E	*	*								F
Gerber	Allerton EL ADA (14-inch rough-in)	20-009: 21-577 bowl, 28-584 tank	800			2	2		E	*	*								F
Gerber	Allerton RF (10-inch rough-in)	20-002: 21-542 bowl, 28-585 tank	800			2	2		R	*	*								F
Gerber	Brianne EL ADA (12-inch rough-in)	20-013: 21-183 bowl, 28-183 tank	800			2	3		E	*	*								F
Gerber	Ultra Flush EL ADA	EF 21-318: 21-377 bowl, EF-28-380 tank	800	SPS	WS	2	-		E	*							HET		F



**Maximum Performance (MaP) of Toilet Fixtures**

**Appendix C - Sorted by Performance**

Make	Model Name	Model Number	MaP Flush Performance (grams of solid waste removed from the toilet in a SINGLE flush)	Meets Los Angeles specification (SPS) for water savings sustainability	Certified to meet U.S. EPA WaterSense Specification	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 Bowl	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	Single-Flush Max 1.1-G (4-L) Pressure-Assist	Single-Flush Max 1.28 G (4.8 L) Gravity Flushometer Valve (commercial)		
Gerber	Ultra Flush EL ADA	EF-21-312: 21-372 bowl, EF-28-380 tank	800	SPS	WS	2	-	E	*						HET			F
Gerber	Ultra Flush EL ADA	EF-21-314: 21-372 bowl, EF-28-384 tank	800	SPS	WS	2	-	E	*						HET			F
Gerber	Ultra Flush EL ADA	EF-21-324: 21-372 bowl, EF-28-384 tank	800	SPS	WS	2	-	E	*						HET			F
Gerber	Ultra Flush EL ADA (rear discharge)	EF-21-325: 21-375 bowl, EF-28-380 tank	800	SPS	WS	2	-	E	*						HET		R	F
Gerber	Ultra Flush EL ADA (w/bedpan lugs)	EF-21-319: 21-329 bowl, EF-28-390 tank	800	SPS		2	-	E	*						HET			F
Gerber	Viper EL	21-510: 21-562 bowl, 28-595 tank	800			2	2	E		*								F
Gerber	Viper EL	21-510: 21-562 bowl, EH28-595 tank	800	SPS		2	2	E		*								F
Gerber	Viper EL	21-512: 21-562 bowl, 28-590 tank	800			2	2	E		*								F
Gerber	Viper EL	21-512: 21-562 bowl, EH28-590 tank	800	SPS		2	2	E		*								F
Gerber	Viper EL	21-514: 21-562 bowl, 28-594 tank	800			2	2	E		*								F
Gerber	Viper EL ADA	21-517: 21-528 bowl, EH28-595 tank	800	SPS		2	2	E	*	*								F
Gerber	Viper EL ADA	21-518: 21-528 bowl, 28-590 tank	800			2	2	E	*	*								F
Gerber	Viper EL ADA	21-518: 21-528 bowl, EH28-590 tank	800	SPS		2	2	E	*	*								F
Home Depot - Pegasus	Dual-Flush RF	SKU 131-926	800			2	-	R		*					HET			F
Home Depot (by Niagara)	Ecologic EL ADA (Flapperless)	N2225E: N2225EB bowl, N2225T tank. Sold combined as Home Depot SKU 331-725	800	SPS	WS	2	-	*	E	*						HET		F
Jacuzzi	Era Collection EL ADA	BK37959 (sold as a set)	800			2	3	E	*	*								F
Jacuzzi	ERA Toilet "in a box" EL ADA	BK37959	800			2	3	E	*	*								F
Jacuzzi	Perfecta RF ADA	BN31959 (sold as a set)	800			2	3	R	*	*								F
Kohler	Archer EL ADA	K-3517: 4295 bowl, 4493 tank	800	SPS		2	3	E	*	*								F
Kohler	Bancroft Comfort Height EL ADA	K-3487: 4281 bowl, 4633 tank	800	SPS		2	3	E	*	*								F
Kohler	Cimarron Comfort Height EL ADA	K-3489	800	SPS		1	3	E	*	*								F
Kohler	Cimarron Eco-Smart EL ADA	K-3496-HE: 4286 bowl, 4634-HE tank	800	SPS	WS	2	3	E	*	*						HET		F
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
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
Kohler	Gabrielle EL ADA	K-3513 (one-piece)	800	SPS		1	3	E	*	*								F
Kohler	Highline EL ADA	K-3611: 4298 bowl, 4632 tank	800			2	3	E	*	*								F
Kohler	Highline Pressure Lite EL ADA	K-3493: 4304 bowl, 4645 tank	800	SPS		2	-	*	E	*			*					F
Kohler	Memoirs Classic EL	K-3451 (Classic tank lid)	800	SPS		1	3	E		*								F
Kohler	Memoirs Stately EL	K-3453 (Stately tank lid)	800	SPS		1	3	E		*								F
Kohler	Purist EL	K-3492 Power-Assisted	800	SPS		1	-	*	E				*					F
Kohler	Sterling Karsten RF	402025: 402021 bowl, 402023 tank	800	SPS	WS	2	2	*	R		*				HET			F
Mansfield/Colceramica	Stafford EL	105 bowl, 106 tank	800			2	3	E		*								F
Niagara	Ecologic EL ADA HET (Flapperless)	N2225E: N2225EB bowl, N2225T tank. Also sold as Home Depot SKU 331-725	800	SPS	WS	2	-	*	E	*						HET		F
Porcher (American Standard)	Veneto II EL	97220 (one-piece)	800			1	3	E		*								F
Toto	Aquia EL	CST414M: CT414 bowl, ST413M tank	800	SPS	WS	2	2	E		*					HET			F
Vitra	Altantis RF	5050 bowl, 6853 tank	800	SPS		2	2	R		*								F
Vitra	Evergreen (formerly Corina) Dual Flush Comfort EL ADA	5074 bowl, 5055 tank	800	SPS	WS	2	2	E	*	*					HET			F
Vitra	EverGreen RF ADA	5196 bowl, 5402 tank	800	WS	WS	2	2	R	*							HET		F

Maximum Performance (MaP) of Toilet Fixtures

Appendix C - Sorted by Performance

Make	Model Name	Model Number	MaP Flush Performance (grams of solid waste removed from the toilet in a SINGLE flush)	Meets Los Angeles specification (SPS) for water savings sustainability	Certified to meet U.S. EPA WaterSense Specification	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 Bowl	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	Single-Flush Max 1.1-G (4-L) Pressure-Assist	Single-Flush Max 1.28 G (4.8 L) Gravity Flushometer Valve (commercial)		
Vitra	Mona EL	4117 bowl, 4015 tank	800			2	3		E		*							F
Vitra	Serenada EL ADA	4219-003-5265	800	SPS		1	3		E	*	*							F
Vortens-Lamosa	Vienna L EL (ballcock-float arm fill valve)	3113-3464: 3113 bowl, 3464 tank (or T464V)	800			2	2		E		*							F
Vortens-Lamosa	Vienna L EL (pilot fill valve)	3113-3464: 3113 bowl, 3464 tank (or T464R)	800	SPS		2	2		E		*							F
Vortens-Lamosa	Vienna Victory RF	3209 bowl, 3464 tank	800	SPS		2	2		R		*							F
Western Pottery	Typhoon 830 EL	830: B830 bowl, T8ULF-HP tank	800			2	3		E		*							F
Zurn	EcoVantage Dual Flush EL	Z5572	800	SPS		2	-	*	E				*	HET				F
Zurn	EcoVantage EL	Z5570	800	SPS		2	-	*	E				*					F
Zurn	EcoVantage EL	Z5571	800	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
American Standard	Doral Classic Champion EL ADA	2058.014: 3225 bowl, 4281 tank	850	SPS		2	3		E	*	*							F
Caroma	Royale 270 EL ADA	609120 bowl, 624530 tank	850	SPS	WS	2	-	*	E	*	*			HET				F
Caroma	Royale 305 EL	609130 bowl, 629530 tank	850	WS	WS	2	-	*	E	*	*			HET				F
Foremost	Premier / Lilas EL ADA	LL-8207-HC bowl, T-8207 tank (ALSO sold as combination TT-8297-WL)	850			2	2		E	*	*							F
Kohler	San Raphael Power Lite EL	K-3398 Power-Assisted (DISCONTINUED MODEL-replaced by K-3393)	850	SPS		1	-	*	E				*	HET				F
Mansfield	Quantum RF	146 bowl, 123 tank	850	SPS		2	-		R				*					F
Pro-Flo (by Tynan for Ferguson)	MacLair EL	PF9401 bowl; PF9412 tank	850	SPS	WS	2	3		E						HET			F
Tynan Plumbing	MacLair EL	4343: 0343 bowl, 1342HET tank	850	WS	WS	2	3		E						HET			F
Vitra	Corina EL	5069 bowl, 5070 tank	850	SPS		2	3		E		*							F
Vitra	Corina RF (one-piece)	5209	850	SPS		1	3		R		*							F
American Standard	FloWise Dual Flush EL	2479.216: 3067.216 bowl, 4035.216 tank	900	WS	WS	2	2	*	E		*			HET				F
Caroma	Bondi 270 EL ADA	609120 bowl, 726350 tank	900	SPS	WS	2	-	*	E	*	*			HET				F
Caroma	Royale 270 RF ADA	609177 bowl, 624530 tank	900	WS	WS	2	-	*	E	*	*			HET				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
Gerber	Ultra Flush RF	21-300: 21-342 bowl, 28-385 tank	900	SPS		2	-		R				*					F
Gerber	Ultra Flush RF	21-304: 21-342 bowl, 28-384 tank	900	SPS		2	-		R				*					F
Mansfield	None - EL	144 bowl, 153 tank	900	SPS	WS	2	-		E	*					HET		R	W
Pro-Flo (by Tynan for Ferguson)	MacLair RF	PF9400 bowl; PF9412 tank	900	SPS	WS	2	3		R						HET			F
Toto	Drake EL	CST744S: C744S bowl, ST743S tank	900	SPS		2	3		E		*							F
Toto	EcoDrake EL ADA	CST744EL: C744EL bowl, ST743E tank	900	SPS	WS	2	3		E	*					HET			F
Tynan Plumbing	MacLair RF	4342: 0342 bowl, 1342HET tank	900	WS	WS	2	3		R						HET			F
Zurn	EcoVantage EL ADA	Z5551: Z5551 bowl, Z5551 tank	900			2	3		E	*	*							F
Mansfield	Quantum EL ADA	148 bowl, 123 tank	925	SPS		2	-		E	*	*		*					F
American Standard	Champion 4 EL ADA	2002.014: 3225 bowl, 4266 tank	950	SPS		2	3		E	*	*							F
American Standard	Skyline Champion 4 EL ADA	2067.014: 3225 bowl, 4077 tank	950	SPS		2	3		E	*	*							F
American Standard	Afwall EL	3351.160 flushometer bowl only (top spud); tested w/1.6-gpf flushometer valve	1,000	NE	NE	1	-		E	*							R	W
American Standard	Afwall EL	3352.160 flushometer bowl only (top spud; w/bedpan lugs); tested w/1.6-gpf flushometer valve	1,000	NE	NE	1	-		E	*							R	W
American Standard	Cadet 3 EL	2457.016: 3014 bowl, 4007 tank	1,000	SPS		2	3		E		*							F

**Maximum Performance (MaP) of Toilet Fixtures**

**Appendix C - Sorted by Performance**

Make	Model Name	Model Number	MaP Flush Performance (grams of solid waste removed from the toilet in a SINGLE flush)	Meets Los Angeles specification (SPS) for water savings sustainability	Certified to meet U.S. EPA WaterSense Specification	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 Bowl	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	Single-Flush Max 1.1-G (4-L) Pressure-Assist	Single-Flush Max 1.28 G (4.8 L) Gravity	Flushometer Valve (commercial)		
American Standard	Cadet 3 EL (12" rough-in)	2383.012: 3014 bowl, 4021 tank (unlined)	1,000	SPS		2	3	*	E		*							F	
American Standard	Cadet 3 EL (14" rough-in)	2383.014: 3014 bowl, 4027 tank	1,000	SPS		2	3		E		*							F	
American Standard	Cadet 3 EL ADA (10" rough-in)	2386.010: 3016 bowl, 4019 tank	1,000	SPS		2	3		E	*	*							F	
American Standard	Cadet 3 EL ADA (12" rough-in)	2386.012: 3016 bowl, 4021 tank (unlined)	1,000	SPS		2	3		E	*	*							F	
American Standard	Cadet 3 EL ADA (12" rough-in)	2386.012: 3016 bowl, 4021.500 LINED tank	1,000	SPS		2	3		E	*	*							F	
American Standard	Cadet 3 EL ADA (14" rough-in)	2386.014: 3016 bowl, 4027 tank	1,000	SPS		2	3		E	*	*							F	
American Standard	Cadet 3 RF	2455.016: 3011 bowl, 4007 tank	1,000	SPS		2	3		R		*							F	
American Standard	Cadet 3 RF (10" rough-in)	2384.010: 3011 bowl, 4019 tank	1,000	SPS		2	3		R		*							F	
American Standard	Cadet 3 RF (12" rough-in)	2384.012: 3011 bowl, 4021 tank	1,000	SPS		2	3		R		*							F	
American Standard	Cadet 3 RF (12" rough-in)	2384.012: 3011 bowl, 4021.500 LINED tank	1,000	SPS		2	3		R		*							F	
American Standard	Cadet 3 RF (14" rough-in)	2384.014: 3011 bowl, 4027 tank	1,000	SPS		2	3		R		*							F	
American Standard	Cadet 3 Right Height EL ADA	2459.016: 3016 bowl, 4007 tank	1,000	SPS		2	3		E	*	*							F	
American Standard	Champion 4 EL	2018.214: 3121 bowl, 4266 tank	1,000	SPS		2	3		E		*							F	
American Standard	Champion 4 EL	2018.504: 3121.016 bowl, 4266.504 tank	1,000	SPS		2	3		E	*	*							F	
American Standard	Champion 4 EL ADA	2002.504: 3225.016 bowl, 4266.504 tank	1,000	SPS		2	3		E	*	*							F	
American Standard	Champion 4 RF	2023.214: 3110 bowl, 4266 tank	1,000	SPS		2	3		R		*							F	
American Standard	Champion 4 RF	2023.504: 3110.016 bowl, 4266.504 tank	1,000	SPS		2	3		R		*							F	
American Standard	Champion EL	2018: 3121 bowl, 4260 tank	1,000	SPS		2	3	*	E		*							F	
American Standard	Champion Right Height EL ADA	2002: 3225 bowl, 4260 tank	1,000	SPS		2	3	*	E	*	*							F	
American Standard	Champion Select EL	2087: 3121 bowl, 4272 tank	1,000	SPS		2	3	*	E		*							F	
American Standard	Champion Select EL ADA	2057: 3225 bowl, 4272 tank	1,000	SPS		2	3	*	E	*	*							F	
American Standard	Compact Cadet	2403.012 (one-piece)	1,000	SPS		1	3		E	*	*							F	
American Standard	Compact Cadet 3 EL	2431.010: 3046.016 bowl, 4019.016 tank	1,000	SPS		2	3		E		*							F	
American Standard	Doral Champion 4 EL	2368.014: 3121 bowl, 4272 tank	1,000	SPS		2	3		E		*							F	
American Standard	Doral Champion 4 EL ADA	2367.014: 3225 bowl, 4272 tank	1,000	SPS		2	3		E	*	*							F	
American Standard	Doral Champion 4 RF	2369.014: 3110 bowl, 4272 tank	1,000	SPS		2	3		R		*							F	
American Standard	Doral Champion EL	2368: 3121 bowl, 4272 tank	1,000	SPS		2	3	*	E		*							F	
American Standard	Doral Champion EL ADA	2367: 3225 bowl, 4272 tank	1,000	SPS		2	3	*	E	*	*							F	
American Standard	Doral Classic Champion 4 EL OR Williamsburg Champion 4 EL	2074.014: 3121 bowl, 4281 tank	1,000	SPS		2	3		E		*							F	
American Standard	Doral Classic Champion 4 RF OR Williamsburg Champion RF	2076.014: 3110 bowl, 4281 tank	1,000	SPS		2	3		R		*							F	
American Standard	Doral Classic/Williamsburg EL	2074: 3121 bowl, 4172.016 tank	1,000	SPS		2	3	*	E		*							F	
American Standard	Doral Classic/Williamsburg EL ADA	2058: 3225 bowl, 4172.016 tank	1,000	SPS		2	3	*	E	*	*							F	
American Standard	FloWise Compact Cadet 3 EL	2403.128 (one-piece)	1,000	WS	WS	1	3		E							HET		F	
American Standard	Madera EL (10-inch rough-in)	3451.160 flushometer bowl only (top spud); tested w/1.6 gal flushometer valve	1,000	NE	NE	1	-		E									F	
American Standard	Madera EL (10-inch rough-in)	3452.160 flushometer bowl only (top spud; w/bedpan lugs); tested w/1.6 gal flushometer valve	1,000	NE	NE	1	-		E									F	
American Standard	Madera EL (10-inch rough-in)	3453.160 flushometer bowl only (back spud); tested w/1.6 gal flushometer valve	1,000	NE	NE	1	-		E									F	
American Standard	Madera EL (10-inch rough-in)	3455.160 flushometer bowl only (back spud; w/bedpan lugs); tested w/1.6 gal flushometer valve	1,000	NE	NE	1	-		E									F	

**Maximum Performance (MaP) of Toilet Fixtures**

**Appendix C - Sorted by Performance**

Make	Model Name	Model Number	MaP Flush Performance (grams of solid waste removed from the toilet in a SINGLE flush)	Meets Los Angeles specification (SPS) for water savings sustainability	Certified to meet U.S. EPA WaterSense Specification	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 Bowl	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	Single-Flush Max 1.1-G (4-L) Pressure-Assist	Single-Flush Max 1.28 G (4.8 L) Gravity	Flushometer Valve (commercial)		
American Standard	Madera EL ADA (10-inch rough-in)	3461.160 flushometer bowl only (top spud); tested w/1.6 gal flushometer valve	1,000	NE	NE	1	-	E	*									F	
American Standard	Madera EL ADA (10-inch rough-in)	3462.160 flushometer bowl only (top spud; w/bedpan lugs); tested w/1.6 gal flushometer valve	1,000	NE	NE	1	-	E	*									F	
American Standard	Madera FloWise EL (10-inch rough-in)	3451.128 flushometer bowl only (top spud); tested w/1.2 gal flushometer valve	1,000	NE	NE	1	-	E									HET	F	
American Standard	Madera FloWise EL (10-inch rough-in)	3452.128 flushometer bowl only (top spud; w/bedpan lugs); tested w/1.2 gal flushometer valve	1,000	NE	NE	1	-	E									HET	F	
American Standard	Madera FloWise EL ADA (10-in rough)	3461.128 flushometer bowl only (top spud); tested w/1.2 gal flushometer valve	1,000	NE	NE	1	-	E	*								HET	F	
American Standard	Madera FloWise EL ADA (10-in rough)	3462.128 flushometer bowl only (top spud; w/bedpan lugs); tested w/1.2 gal flushometer valve	1,000	NE	NE	1	-	E	*								HET	F	
American Standard	Oakmont Champion EL ADA	2738: 3101 bowl, 4272 tank	1,000	SPS		2	3	*	E	*	*							F	
American Standard	Oakmont Champion 4 EL	2625.014: 3153 bowl, 4272 tank	1,000	SPS		2	3		E	*	*							F	
American Standard	Oakmont Champion 4 EL ADA	2738.014: 3101 bowl, 4272 tank	1,000	SPS		2	3		E	*	*							F	
American Standard	Oakmont Champion 4 RF	2627.014: 3167 bowl, 4272 tank	1,000	SPS		2	3		R	*	*							F	
American Standard	Oakmont Champion EL	2625: 3153 bowl, 4272 tank	1,000	SPS		2	3	*	E	*	*							F	
American Standard	Oakmont Champion RF	2627: 3167 bowl, 4272 tank	1,000	SPS		2	3	*	R	*	*							F	
American Standard	Skyline Champion 4 EL	2219.014: 3121 bowl, 4077 tank	1,000	SPS		2	3		E	*	*							F	
American Standard	Skyline Champion 4 RF	2112.014: 3110 bowl, 4077 tank	1,000	SPS		2	3		R	*	*							F	
American Standard	Skyline Champion EL ADA	3225 bowl, 4077 tank	1,000	SPS		2	3	*	E	*	*							F	
American Standard	Skyline Champion RF	3110 bowl, 4077 tank	1,000	SPS		2	3	*	R	*	*							F	
American Standard	Townsend Champion 4 EL ADA	2733.014: 3177 bowl, 4281 tank	1,000	SPS		2	3		E	*	*							F	
American Standard	Townsend Champion EL ADA	2733: 3177 bowl, 4281 tank	1,000	SPS		2	3	*	E	*	*							F	
American Standard	Townsend Champion RF ADA	2735.014: 3180 bowl, 4281 tank	1,000	SPS		2	3		R	*	*							F	
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				*				R	F	
Caroma	Sydney 270 EL ADA	609120 bowl, 622320 tank	1,000	SPS	WS	2	-	*	E	*	*			HET				F	
Caroma	Sydney 305 RF	609151A bowl, 622320 tank	1,000	SPS	WS	2	-	*	R		*			HET				F	
Crane	Ecomiser Bigfoot EL	38345: 31125 bowl, 31500 tank	1,000	SPS	WS	2	-		E				*	HET				F	
Crane	Ecomiser Bigfoot EL ADA	38355: 31128 bowl, 31500 tank	1,000	WS	WS	2	-		E	*			*	HET				F	
Crane	EcoMiser EL	38340: 3824 bowl, 31500 tank	1,000	SPS		2	-		E				*	HET				F	
Crane	EcoMiser EL	38350: 3825 bowl, 31500 tank	1,000	SPS		2	-		E				*	HET				F	
Crane	EcoMiser EL ADA	38380: 3828 bowl, 31500 tank	1,000	SPS		2	-		E	*			*	HET				F	
Crane	Economiser Bigfoot EL	31135: 31125 bowl, 3612 tank	1,000	SPS		2	-		E				*					F	
Crane	Economiser EL	3832: 3822 bowl, 3612 tank	1,000	SPS		2	-		E				*					F	
Crane	Economiser EL	3835: 3825 bowl, 3612 tank	1,000	SPS		2	-		E				*					F	
Crane	Economiser EL ADA	3838: 3828 bowl, 3612 tank	1,000	SPS		2	-		E	*			*					F	
Crane	Economiser One Bigfoot EL	31885: 31125 bowl, 31612 tank	1,000	SPS	WS	2	-		E				*	HET				F	
Crane	Economiser One Bigfoot EL ADA	31888: 31128 bowl, 31612 tank	1,000	WS	WS	2	-		E	*			*	HET				F	
Crane	Economiser One Bigfoot RF	31134: 31124 bowl, 3612 tank	1,000	SPS		2	-		R				*					F	
Crane	Economiser One Bigfoot RF	31884: 31124 bowl, 31612 tank	1,000	SPS	WS	2	-		R				*	HET				F	
Crane	Economiser One Bigfoot RF	38335: 31124 bowl, 31500 tank	1,000	SPS	WS	2	-		R				*	HET				F	

**Maximum Performance (MaP) of Toilet Fixtures**

**Appendix C - Sorted by Performance**

Make	Model Name	Model Number	MaP Flush Performance (grams of solid waste removed from the toilet in a SINGLE flush)	Meets Los Angeles specification (SPS) for water savings sustainability	Certified to meet U.S. EPA WaterSense Specification	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 Bowl	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	Single-Flush Max 1.1-G (4-L) Pressure-Assist	Single-Flush Max 1.28 G (4.8 L) Gravity Flushometer Valve (commercial)		
Crane	Economiser One EL	31945: 3825 bowl, 31612 tank	1,000	SPS		2	-	E							HET			F
Crane	Economiser One EL ADA	31948: 3828 bowl, 31612 tank	1,000	SPS		2	-	E	*						HET			F
Crane	Economiser One RF	31944: 3824 bowl, 31612 tank	1,000	SPS		2	-	R							HET			F
Crane	Economiser RF	3834: 3824 bowl, 3612 tank	1,000	SPS		2	-	R					*					F
Crane	Sureflush EL	31352: 31192 bowl, 31242 tank	1,000			2	3	E		*								F
Crane	SureFlush EL ADA	31372: 31212 bowl, 31242 tank	1,000	SPS		2	3	E	*	*								F
Crane	Sureflush EL ADA	31373: 31212 bowl, 31243 tank	1,000			2	3	E	*	*								F
Crane	SureFlush RF	31352: 31192 bowl, 31242 tank	1,000	SPS		2	3	R		*								F
Duravit	Caro EL	010101 bowl; 092410 tank	1,000			2	3	E		*								F
Duravit	Duraplus EL	010201 bowl; 092510 tank	1,000			2	3	E		*								F
Eljer	PR Titan RF (one piece)	081-0750	1,000			1	3	R		*								F
Eljer	Titan EL	091-0755: 131-0755 bowl, 141-0777 tank	1,000			2	3	E		*								F
Eljer	Titan EL (one piece)	081-0755	1,000			1	3	E		*								F
Eljer	Titan EL ADA (one piece)	081-0777	1,000			1	3	E	*	*								F
Eljer	Titan Elite EL	091-2755: 131-0755 bowl; 141-2777 tank	1,000			2	3	E		*								F
Eljer	Titan Elite EL ADA	091-2777: 131-0777 bowl; 141-2777 tank	1,000			2	3	E	*	*								F
Eljer	Titan Elite RF	091-2750: 131-0750 bowl; 141-2777 tank	1,000			2	3	R		*								F
Eljer	Titan RF	091-0750: 131-0750 bowl, 141-0777 tank	1,000			2	3	R		*								F
Eljer	Titan Triangle EL	091-3750: 131-0755 bowl; 141-3777 tank	1,000			2	3	E		*								F
Eljer	Titan Triangle EL ADA	091-3777: 131-0777 bowl; 141-3777 tank	1,000			2	3	E	*	*								F
Eljer	Titan Triangle RF	091-3750: 131-0750 bowl; 141-3777 tank	1,000			2	3	R		*								F
Eljer	Toronto Savoy EL ADA	091-1265: 131-2175 bowl, 141-0260 tank	1,000			2	2	E	*	*								F
Foremost	None - EL	TL-6300E-WL (one-piece, lined tank)	1,000			1	2	E		*								F
Foremost	Pegasus EL ADA	SKU 464-747 (one-piece)	1,000			1	2	E	*	*								F
Foremost	Tuxedo EL ADA	TL-5300E-WL (one-piece)	1,000			1	2	E	*	*								F
Gerber	Allerton EL (10-inch rough-in)	20-005: 21-572 bowl, 28-585 tank	1,000			2	2	E		*								F
Gerber	Allerton RF (12-inch rough-in)	20-001: 21-542 bowl, 28-580 tank	1,000			2	2	R		*								F
Gerber	Allerton RF (14-inch rough-in)	20-003: 21-542 bowl, 28-584 tank	1,000			2	2	R		*								F
Gerber	Avalanche EL ADA	21-817: 21-828 bowl, 28-895 tank	1,000	SPS		2	3	E	*	*								F
Gerber	Avalanche EL ADA	21-818: 21-828 bowl, 28-890 tank	1,000	SPS		2	3	E	*	*								F
Gerber	Avalanche EL ADA	21-824: 21-828 bowl, 28-894 tank	1,000	SPS		2	3	E	*	*								F
Gerber	Brianne EL (12-inch rough-in)	20-015: 21-185 bowl, 28-183 tank	1,000			2	3	E		*								F
Gerber	Brianne RF	20-014: 21-184 bowl, 28-183 tank	1,000			2	2	R		*								F
Gerber	Ultra Dual Flush EL	DF-21-312: 21-372 bowl, DF-28-380 tank	1,000	SPS	WS	2	-	E					*		HET			F
Gerber	Ultra Dual Flush EL	DF-21-314: 21-372 bowl, DF-28-384 tank	1,000	SPS	WS	2	-	E					*		HET			F
Gerber	Ultra Dual Flush EL ADA	DF 21-318: 21-377 bowl, DF-28-380 tank	1,000	SPS	WS	2	-	E	*				*		HET			F
Gerber	Ultra Dual Flush EL ADA	DF-21-324: 21-377 bowl, DF-28-384 tank	1,000	SPS	WS	2	-	E	*				*		HET			F
Gerber	Ultra Dual Flush EL ADA (rear discharge)	DF-21-325: 21-375 bowl, DF-28-380 tank	1,000	SPS	WS	2	-	E	*				*		HET		R	F
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
Gerber	Ultra Dual Flush RF	DF-21-302: 21-342 bowl, DF-28-380 tank	1,000	SPS	WS	2	-	R					*		HET			F
Gerber	Ultra Dual Flush RF	DF-21-304: 21-342 bowl, DF-28-384 tank	1,000	SPS	WS	2	-	R					*		HET			F
Gerber	Ultra Flush EL	21-312: 21-372 bowl , 28-380 tank	1,000	SPS		2	-	E					*					F
Gerber	Ultra Flush EL	21-314: 21-372 bowl , 28-384 tank	1,000	SPS		2	-	E					*					F
Gerber	Ultra Flush EL ADA	21-311: 21-372 bowl, 28-385 tank	1,000	SPS		2	-	E	*				*					F



Maximum Performance (MaP) of Toilet Fixtures

Appendix C - Sorted by Performance

Make	Model Name	Model Number	MaP Flush Performance (grams of solid waste removed from the toilet in a SINGLE flush)	Meets Los Angeles specification (SPS) for water savings sustainability	Certified to meet U.S. EPA WaterSense Specification	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 Bowl	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	Single-Flush Max 1.1-G (4-L) Pressure-Assist	Single-Flush Max 1.28 G (4.8 L) Gravity	Flushometer Valve (commercial)		
Gerber	Ultra Flush EL ADA	21-317: 21-377 bowl, 28-385 tank	1,000	SPS		2	-		E	*			*						F
Gerber	Ultra Flush EL ADA	21-318: 21-377 bowl, 28-380 tank	1,000	SPS		2	-		E	*			*						F
Gerber	Ultra Flush EL ADA	21-324: 21-377 bowl, 28-384 tank	1,000	SPS		2	-		E	*			*						F
Gerber	Ultra Flush EL ADA (rear discharge)	21-325: 21-375 bowl, 28-380 tank	1,000	SPS		2	-		E	*			*				R		F
Gerber	Ultra Flush RF	EF-21-302: 21-342 bowl, EF-28-380 tank	1,000	SPS	WS	2	-		R										F
Gerber	Ultra Flush RF	EF-21-304: 21-342 bowl, EF-28-384 tank	1,000	SPS	WS	2	-		R										F
Jacuzzi	Maxima EL ADA	DP5959 bowl, EL61959 tank	1,000			2	3		E	*	*								F
Kohler	Barrington Pressure Lite EL	K-3554: 4327 bowl, 4645 tank	1,000	SPS		2	-	*	E				*				R		F
Kohler	Devonshire EL ADA	K-3503: 4288 bowl, 4708 tank	1,000	SPS		2	3		E	*	*								F
Kohler	Portrait EL ADA	K-3506 (one-piece)	1,000	SPS		1	3		E	*	*								F
Kohler	San Raphael Power Lite EL ADA	K-3393 Power-Assisted	1,000	SPS	WS	1	-	*	E	*			*-at 1.4-g		HET				F
Kohler	Wellworth EL (flushometer bowl & valve combination)	K-4406 flushometer bowl (tested with K-10956 flushometer valve (piston type))	1,000	NE	NE	2	-		E							HET			F
Kohler	Wellworth Pressure Lite EL	K-3505: 4303 bowl, 4645 tank	1,000	SPS		2	-		E				*						F
Kohler	Wellworth Pressure Lite EL	K-3531: 4303 bowl, 4484 tank	1,000	SPS	WS	2	-		E						HET				F
Kohler	Highline Pressure Lite EL ADA	K-3519: 4304 bowl, 4484 tank	1,000	SPS	WS	2	-	*	E	*					HET				F
Mansfield	EcoQuantum EL	147 bowl, 119 tank	1,000	SPS	WS	2	-		E				*		HET				F
Mansfield	EcoQuantum EL ADA	148 bowl, 119 tank	1,000	SPS	WS	2	-		E	*			*		HET				F
Mansfield	EcoQuantum RF	146 bowl, 119 tank	1,000	SPS	WS	2	-		R				*		HET				F
Mansfield	Maverick EL	101 bowl, 109 tank (lined tank)	1,000			2	3		E		*								F
Mansfield	Maverick EL ADA	104 bowl, 109 tank (lined tank)	1,000			2	3		E	*	*								F
Mansfield	None - EL	144 bowl, 119 tank	1,000	SPS	WS	2	-		E	*			*		HET			R	W
Mansfield	None - EL	144 bowl, 123 tank	1,000	SPS		2	-		E	*			*					R	W
Mansfield	QuantumOne EL	147 bowl, 153 tank	1,000	SPS	WS	2	-		E							HET			F
Mansfield	QuantumOne EL	149 bowl, 153 tank	1,000	SPS	WS	2	-		E							HET		R	F
Mansfield	QuantumOne EL ADA	148 bowl, 153 tank	1,000	SPS	WS	2	-		E	*						HET			F
Mansfield	QuantumOne RF	146 bowl, 153 tank	1,000	SPS	WS	2	-		R							HET			F
RAK Ceramics	Windsor EL	WE20 bowl, W120 tank	1,000			2	3		E		*								F
Tynan Plumbing	MacLair EL	4313: 0313 bowl, 1330FET3 tank	1,000			2	3		E		*								F
Tynan Plumbing	MacLair RF	4312: 0312 bowl, 1330FET3 tank	1,000			2	3		R		*								F
Vitra	Corina Comfort EL ADA	5232 bowl, 5070 tank	1,000	SPS		2	3		E	*	*								F
Vortens-Lamosa	Rhodas EL ADA (HET)	3123V bowl, 3436V tank	1,000	SPS	WS	2	-	*	E	*	*				HET				F
Vortens-Lamosa	Tornado EL ADA	3134 bowl, 3468 tank	1,000	SPS	WS	2	-		E	*						HET			F
Vortens-Lamosa	Vienna ELX	3113ELX bowl, 3436SPS tank	1,000	SPS		2	2		E		*								F
Western Pottery	Hi-Boy Challenger EL	872 bowl, ULF-8 tank	1,000			2	2		E		*								F
Western Pottery	Typhoon 820 RF	820: B820 bowl, T8ULF-HP tank	1,000			2	3		R		*								F
Western Pottery	Typhoon 870 EL ADA	870: B870 bowl, T8ULF-HP tank	1,000			2	3		E	*	*								F
Western Pottery	Wrangler EL	432PF: B432PF bowl, T4ULF-PF tank	1,000	SPS		2	-		E				*						F
Western Pottery	Wrangler EL ADA	472PF: B472PF bowl, T4ULF-PF tank	1,000	SPS		2	-		E	*			*						F
Western Pottery	Wrangler One EL	B432 PF: 432 PF bowl, ULF-T4 tank	1,000	SPS		2	-		E							HET			F
Zurn	EcoVantage Dual Flush EL ADA	Z5562	1,000	SPS		2	-	*	E	*			*		HET				F
Zurn	EcoVantage EL ADA	Z5560	1,000	SPS		2	-	*	E	*			*						F
Zurn	EcoVantage EL ADA	Z5561	1,000	SPS		2	-	*	E	*					HET				F

# Maximum Performance (MaP) of Toilet Fixtures

# Appendix C - Sorted by Performance

Make	Model Name	Model Number	MaP Flush Performance (grams of solid waste removed from the toilet in a SINGLE flush)	Meets Los Angeles specification (SPS) for water savings sustainability	Certified to meet U.S. EPA WaterSense Specification	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 Bowl	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	Single-Flush Max 1.1-G (4-L) Pressure-Assist	Single-Flush Max 1.28 G (4.8 L) Gravity	Flushometer Valve (commercial)		
Zurn	EL	Z-HPT/Z5552: Z5552 bowl; Z5551 tank	1,000			2	3		E		*								F

RF – Round-front toilet bowl

EF – Elongated-front toilet bowl

S - Special bowl design

ADA-Meets bowl-height requirements of Americans with Disabilities Act; does NOT imply that fixture meets any other ADA requirements.

NE - Currently NOT ELIGIBLE for WaterSense or SPS designation; commercial flushometer valve toilet.

WS - Compliance established by meeting the requirements of the U.S. EPA WaterSense specification for high-efficiency toilets; certified to WaterSense

SPS - Qualified to the Los Angeles Supplementary Purchase Specification for durability and adjustability