



**Maryland State Highway Administration
Office of Materials Technology
Aggregate Bulletin
Test Data**

- a. Any asphalt mix approved prior to March 01, 2016 should use the Dynamic Friction Values (DFVs) included in the [Aggregate Bulletin of Fourth Quarter 2014 \(PDF, 1.5 MB\)](#), [MSMT 416 \(April 2012\) \(PDF, 100 KB\)](#) and [Table 901 D \(September 2014\) \(PDF, 76 KB\)](#).**
- b. All asphalt mix designs approved after March 01, 2016 shall use the DFVs provided in this Aggregate Bulletin and the revised [MSMT 416 \(January 2016\) \(PDF, 100 KB\)](#) and [Table 901 \(February 2016\) \(PDF, 75 KB\)](#).**

**Soils and Aggregate Technology Division
7450 Traffic Drive
Hanover, Maryland 21076**

Aggregate Bulletin Contacts

Dan Sajedi, *Division Chief*

443-572-5162 or dsajedi@sha.state.md.us

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<http://www.roads.maryland.gov/OMT/AggBlt.pdf>

Toll Free: 866-926-8501

Maryland State Highway Administration

Aggregate Bulletin

1. Introduction

This bulletin contains the qualified list of aggregate producers with the physical test data. The bulletin will be updated on a quarterly basis. The last day of January, April, July and October of each year will be the publishing date. Published bulletin data will be valid for one year. For instance, if a test is required to be performed each year, for test data published in the 1st quarter, new test data will be due by the beginning of the 1st quarter of the next year. We encourage producers to keep track of their records, including due dates and submit their requests for aggregate testing on time. Producers are responsible for informing the Soils and Aggregate Technology Division (SATD) of any changes to producer information, such as producer name, quarry name, subsidiary producer's name, contact information, qualified use of aggregate.

The data listed in the aggregate bulletin are considered to be representative of material supplied by a particular source of aggregate. The materials contained within this document are not meant to represent all aggregate materials a particular quarry can produce or supply. It is emphasized that the listed data must not be interpreted in absolute terms. The information is provided as a guide for the expected quality of the material furnished by a listed source.

2. Process for Listing as an Qualified Aggregate Source in MDSHA Aggregate Bulletin

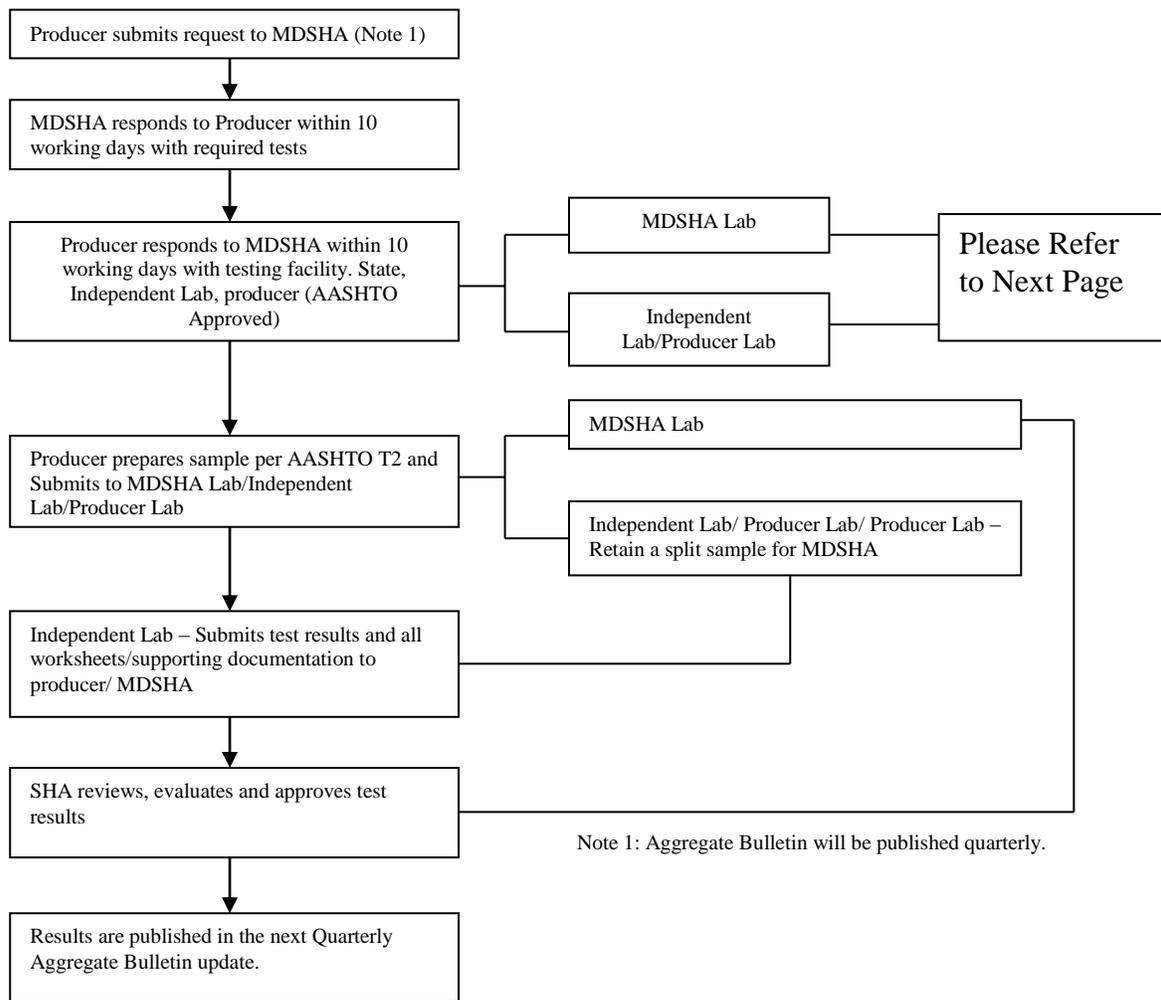
I. Written Request

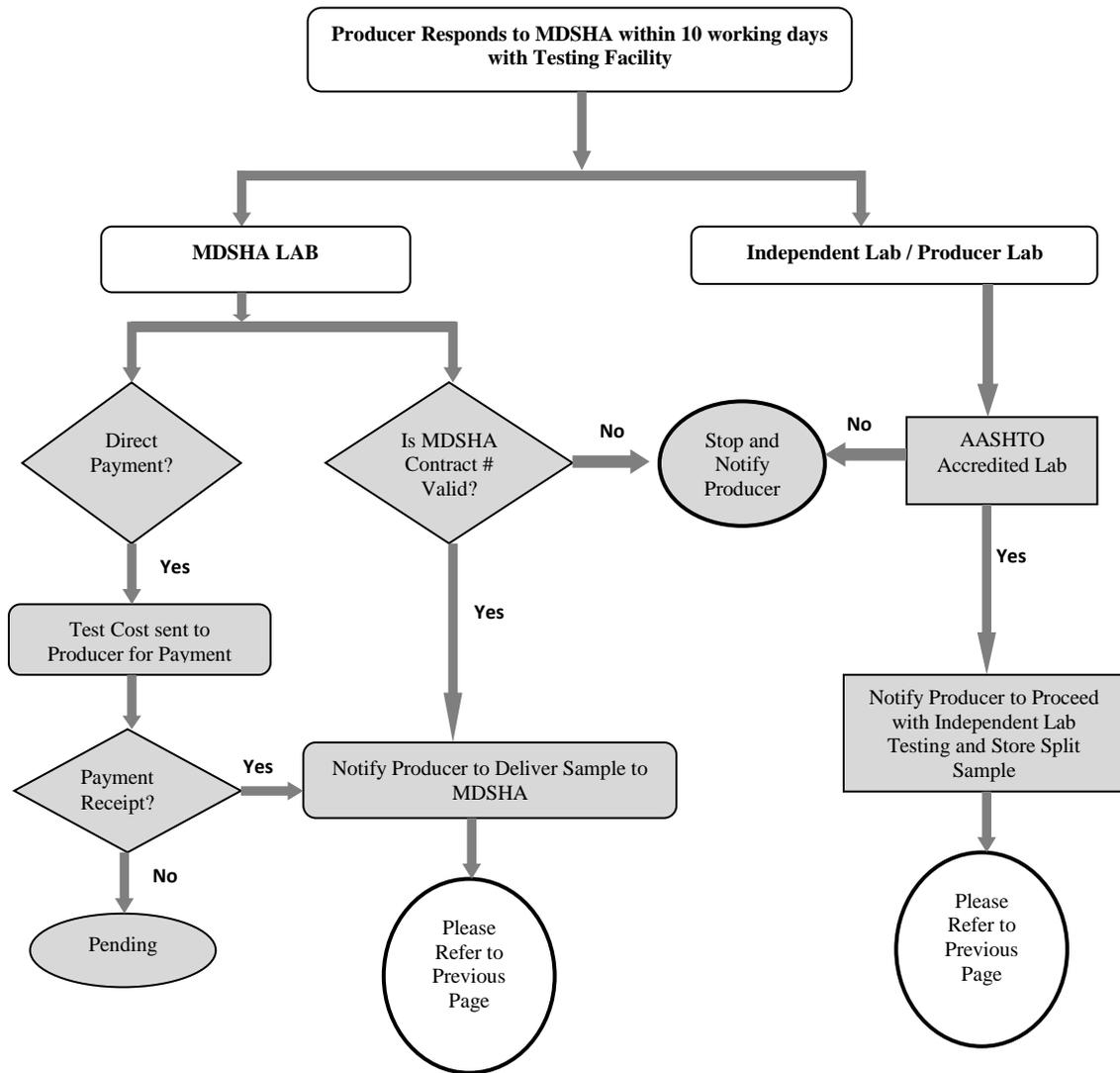
The aggregate producer shall submit a written request to:

Dan Sajedi, Division Chief
Soils and Aggregate Technology
Maryland State Highway Administration
7450 Traffic Drive
Hanover, MD 21076 OR
dsajedi@sha.state.md.us

- A. The SATD requires the producers to submit their written requests before the quarterly aggregate bulletin update. Please refer to the flow chart in Section II for “MDSHA Annual Quality Testing Process.” If samples are tested at MDSHA lab, we are requesting the producers to deliver aggregate samples to the MDSHA laboratory 45 days prior to the next publishing date of the aggregate bulletin in order to publish the test data on time.
- B. Please refer to Appendix A for “Aggregate Quality Test Request” Form. Producers shall complete and submit this form for each material (i.e. No. 57, Concrete Sand, Mortar Sand, etc.) for each quarry.
- C. Materials Safety Data Sheet (MSDS): All requests must be accompanied by a Materials Safety Data Sheet with specific quarry location with the effective date. No aggregate will be accepted prior to receipt of the MSDS.

II. MDSHA Annual Quality Testing Process





3. Aggregate Tests, Test Frequency and Sample Quantity Requirements

Aggregate Category	Use	Required Tests	Specifications	Test Frequency ^[1]	Material Quantity/Type	
Coarse	General Use (HMA Base, GAB, Backfill, etc.)	Specific Gravity & Absorption	AASHTO T-85	1 year	3 bags of No. 57 (at least 40 lbs per bag)	
		Soundness	AASHTO T-104	3 years		
		Los Angeles Abrasion (LA)	AASHTO T-96	2 years		
	PCC	In addition to tests for General Use				
		Alkali-Silica Reaction (ASR)	ASTM C1260	3 years	1 bag of No. 10 Dust from the parent rock (at least 30 lbs)	
	HMA Surface	In addition to tests for General Use				
		British Pendulum Test	ASTM D3319 & E303	2 years	1 bag of material passing ½ sieve and remain on 3/8" sieve (at least 40 lbs)	
		Dynamic Friction Test	MSMT 215 & 216 ^[2]	2 years		
	High Friction Materials	In addition to tests for General Use and HMA Surface				
		Petrography for non-carbonate aggregate	TBD	2 years	As required per Independent Lab	
Acid Insoluble Residue (AIR) for carbonate aggregate	TBD	2 years				
Fine	PCC (Concrete Sand)	Specific Gravity and Absorption	AASHTO T-84	1 year	3 bags (at least 30 labs per bag)	
		Soundness	AASHTO T-104	3 years		
		Alkali-Silica Reactivity (ASR)	ASTM C1260	3 years		
	Mortar Sand and No. 10 Dust	Specific Gravity and Absorption	AASHTO T-84	1 year	3 bags (at least 30 labs per bag)	
		Soundness	AASHTO T-104	3 years		
Note: [1] Except for new quarry requesting first time [2] Dynamic friction testing will be performed by MDSHA lab only.						

- A. Please note that, for quality assurance purposes, SATD has the right to request aggregate tests to be performed more frequently (i.e., Quality Assurance (QA) Testing) than the testing frequency specified above.
- B. If aggregate samples are tested at the MDSHA laboratory, upon the receipt of payment or confirmation of valid contract charge number, the SATD will send a notice to the producer for sampling. Also, SATD will provide "Aggregate Test for Quality," Form 12, Appendix B, to producers for logging each sample for each quarry. The producers are required to complete this form and submit back to the

MDSHA lab along with samples at the address mentioned above. The sampling shall be in conformity with AASHTO T-2.

Appendix A

Aggregate Quality Test Request Form

**Office of Materials Technology
Soils and Aggregate Technology Division
Aggregate Quality Test Request Form
Aggregate Producer's Data Sheet
Date Submitted: _____**

Organization's Name (Parent Aggregate Producer): _____

Office / Facility's Name (Subsidiary Aggregate Producer): *Same as above* _____ *or*

Supervising Office's Mailing Address:

Street or P.O. Box: _____

Town / City: _____

State: _____ Zip: _____

E-Mail Address: _____

Phone No(s): _____

Fax No.: _____

Quarry Name's (If Applicable): _____

Street or P.O. Box: _____

Town / City: _____ State: _____ Zip: _____

Entitled Point of Contact: _____

Title / Position: _____

E-Mail Address: _____

Phone No(s): _____

Fax No.: _____

MSDS Provided: Yes _____ No _____

Testing Charges: Bill Direct (Yes or No) _____ If No,

MDSHA Contract #/Charge #: _____

MDSHA Project # (if available): _____

Please provide the following information if applicable:

Testing Facility: MDSHA Lab _____ Independent Lab _____ If yes, Lab Name _____

Aggregate Category (ies) for Testing: Coarse _____ Fine _____ Other _____

Aggregate Type (s) for Testing: #57 _____ Concrete Sand _____ Mortar Sand _____

#10 Dust _____ Other _____

Aggregate Use(s): HMA Surface _____ HMA Base _____ PCC _____ GAB _____

Other _____ General _____

Note: Shaded areas will be published in the Aggregate Bulletin.

Appendix B

Aggregate Test for Quality (Form 12)

Testing Completed – Reporting Results.

Upon request, the producer will be notified of the preliminary test results once the testing is completed. Subsequently, the test results will be entered into SATD's aggregate database for the next quarterly Aggregate Bulletin update.

S.H.A. 73.0-12
12/18/2012

STATE OF MARYLAND
STATE HIGHWAY ADMINISTRATION
OFFICE OF MATERIALS TECHNOLOGY

AGGREGATE TEST FOR QUALITY

Date Sampled _____ Log No. _____

Contract No. _____ Charge No. _____ MSDS

Type of Construction _____ Item No. _____
(Description of Exact Use of Material)

Type of Material _____ Quantity Represented _____ Size of Sample _____

Type of Sample: Quality Job Control Other _____
(Experimental, Resample, Re-Stock, Etc.)

Produced By _____
(Full Name and Address)

Source of Supply _____
(Full Name and Address)

Sample Taken From _____ Source Source of Supply Job Site

Sample By (Full Name) _____ Witnessed By _____
Federal, County, Municipal Representative's Name

Remarks _____

TEST RESULTS

Gradation:

	3 1/2	3	2 1/2	2	1 1/4	1 1/2	1 1/4	1	3/4	5/8	1/2	3/8	#4	#8
Prod. <input type="checkbox"/>														
Field <input type="checkbox"/>														
Lab.														

	5/8	1/2	3/8	#4	#8	#10	#16	#20	#30	#40	#50	#80	#100	#200
Prod. <input type="checkbox"/>														
Field <input type="checkbox"/>														
Lab.														

Test:

<input type="checkbox"/> Los Angeles Abrasion, % Loss	<input type="checkbox"/> Absorption, %	<input type="checkbox"/> Petro
<input type="checkbox"/> Sodium Sulfate, % Loss	<input type="checkbox"/> Washing over #200, % Loss	<input type="checkbox"/> Thin or Elongated, %
<input type="checkbox"/> Unit Wt. Loose (lbs/ft ³)	<input type="checkbox"/> ASR	<input type="checkbox"/> Acid Insoluble Residue(AIR), %
<input type="checkbox"/> Unit Wt. Rodded (lbs/ft ³)	<input type="checkbox"/> BPN	<input type="checkbox"/> Color
<input type="checkbox"/> Specific Gravity	<input type="checkbox"/> DFV	<input type="checkbox"/> Micro Deval, % Loss
<input type="checkbox"/> pH	<input type="checkbox"/> Other	<input type="checkbox"/>

Remarks: Results of tests on this sample _____ meet specified requirements per the Standard Provision Insert (SPI) of Standard Specifications for Construction and Materials, July 2008, Table 901 B, Aggregate Physical Property Requirements.

Appendix C - Procedures of Quality Aggregate Testing by Independent Laboratories

Submittal Requirements to Independent Laboratory

The submission package by each producer shall contain the following:

- A. Aggregate Quality Test Request Form (Appendix A)
- B. Material Safety Data Sheet (MSDS) for each test material per each quarry location
- C. Independent laboratory package including name, address, a list of aggregate tests the lab is qualified to perform, experience, AASHTO certification and AMRL Proficiency sample ratings for the last two years.
- D. The independent lab organization chart and technician's qualification including point of contact for manager, resumes, training records and experience.

The submittal package shall be provided to SATD via mail or electronically to the following address 45 days prior to the Quarterly Aggregate Bulletin update otherwise the SATD does not guarantee the test data to be included to the next published Aggregate Bulletin:

Attn: Dan Sajedi
Soils and Aggregate Technology Division
Maryland State Highway Administration
Office of Materials Technology
7450 Traffic Drive
Hanover, MD 21076
Fax - 410-787-0464
dsajedi@sha.state.md.us

After reviewing the submittals, we will inform you whether the independent lab is accepted or not. If the lab is accepted, the independent lab shall be valid for one (1) year from the date of the acceptance letter.

Aggregate Tests for Independent Laboratory

The accepted independent lab shall comply with the following aggregate test procedures and specification for aggregate testing.

- AASHTO T11 - Materials Finer Than 75- μ m (No. 200) Sieve by Washing
- AASHTO T27 - Sieve Analysis of Fine and Coarse Aggregate
- AASHTO T84 - Specific Gravity (Relative Density) and Absorption of Fine Aggregate

- AASHTO T85 - Specific Gravity (Relative Density) and Absorption of Coarse Aggregate
 - AASHTO T96 – Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine
 - AASHTO T104 - Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate
 - AASHTO T248 – Reducing Samples of Aggregate to Testing Size
 - AASHTO T255 – Total Evaporable Moisture Content of Aggregate by Drying
 - ASTM E303 – Measuring Surface Frictional Properties Using the British Pendulum Tester
 - ASTM D3319 - Accelerated Polishing of Aggregate using the British Wheel
 - ASTM C 1260 - Accelerated Detection of Potentially Deleterious Expansion of Mortar Bars due to Alkali-Silica reaction Aggregate or Aggregate/Pozzolan Combinations
- A. AASHTO accredited laboratories shall meet R-18 requirements and participate in the AMRL proficiency testing program. In addition, the laboratories should possess or have access to the equipment, facilities, personnel, and calibrated instruments, which are necessary to test material.
- B. The producers are encouraged to minimize the number of laboratories used per quarry to minimize errors of precision due to technicians and laboratories to ensure the test quality.
- C. The producers shall be submitting the independent lab submittal package to MDSHA rather than the independent lab submitting their information directly to us.

Split Samples

The producers shall have a split sample for each quarry before submitting samples to the independent lab.

The SATD will require the split samples as needed to ensure the test quality. The SATD Quality Assurance team may witness and pick the split sample during their normal plant visit. The aggregate producers are required to pay for sampling and reviewing test results in case they do not provide an approved/active contract number and a project charge number.

Test Results Submission by the Independent Laboratory

The independent lab shall submit the final test results along with raw data to the MDSHA lab. The raw data sheet shall include the laboratory letterhead with the technician's name, test date, address, contact information, and manager signature. The MDSHA will review and verify the test data before publishing in the Aggregate Bulletin.

Aggregate Bulletin

Keys

- (-) Under test/under evaluation
- (#) In accordance with the Standard Provision Insert (SPI) of Standard Specifications for Construction and Materials, July 2008, Table 901 D, and Aggregate Physical Property Requirements for Asphalt Mixes (Note (e)): when carbonate rock is used, it shall have a minimum of 25 percent insoluble residue retained on the No. 200 sieve. Otherwise, the aggregate source does not qualify for use as a high friction aggregate.
- (**) ASR determined in accordance with ASTM C 1293, *Determination of length change of concrete due to Alkali Silica Reaction*.
- DFV Dynamic Friction Value is defined as a coefficient of friction multiplied by 100. Accordingly, coarse aggregate is categorized as three broad categories: high, standard, and low DFVs, designated as HDFV, SDFV, and LDFV. These categories are presented below in detail:
- HDFV:
- Category I (HDFV I): DFV is equal to 50
 - Category II (HDFV II): DFV is equal to 45
 - Category III (HDFV III): DFV is equal to 40
- SDFV:
- Category IV (SDFV IV): DFV is equal to 30
 - Category V (SDFV V): DFV is equal to 25
- LDFV:
- Category VI (LDFV VI): DFV is less than 25

Maryland State Highway Administration: Coarse and Fine Aggregate Test Data

Producer	Aggregate Category	Aggregate Type	Specific Gravity (SSD)	ABS (%)	LA (%)	Friction Rating[1]	ASR (%)	Soundness (%)	Material Tested For			
									BPN	MSMT 215 & 216	ASTM C1260	T-104
Aggregate Industries, Inc. Accokeek Sand & Gravel Brandywine, MD												
	Coarse	#57	2.602	1.2	36		0.04(R1)**	4.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Concrete Sand	2.571	0.8			0.02(R1)**	1.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Aggregate Industries, Inc. Charles City Sand & Gravel Charles City, VA												
	Coarse	#57	2.582	1.2	35		0.29	2.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Concrete Sand	2.590	0.8			0.23	2.5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Aggregate Industries, Inc. Fulks Sand & Gravel Fredericksburg, VA												
	Coarse	#57	2.641	0.5	33		0.12	0.7	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Concrete Sand	2.577	1.1			0.12	4.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Aggregate Industries, Inc. Kirby Road Sand & Gravel Clinton, MD												
	Coarse	#57	2.596	1.1	33		0.03(R1)**	0.9	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Concrete Sand	2.586	0.9			0.02(R1)**	0.6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Aggregate Industries, Inc. La Plata Sand & Gravel La Plata, MD												
	Coarse	#57	2.579	1.4	36		0.02(R1)**	2.2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Concrete Sand	2.592	1.2			0.02(R1)**	1.7	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Aggregate Industries, Inc. Mataponi Sand & Gravel Aylett, VA												
	Fine	Concrete Sand	2.589	0.4			0.02	0.6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Note [1]: Category I (HDFV I): DFV-50
Category IV (SDFV IV): DFV-30

Category II (HDFV II): DFV-45
Category V (SDFV V): DFV-25

Category III (HDFV III): DFV-40
Category VI (LDFV VI): DFV is less than 25.

**Updated:
October 31, 2016**

* See notes on front page of Aggregate Bulletin

** ASTM C1293

Maryland State Highway Administration: Coarse and Fine Aggregate Test Data

Producer	Aggregate Category	Aggregate Type	Specific Gravity	ABS	LA	Friction Rating[1]	ASR	Soundness	Material Tested For				
			(SSD)	(%)	(%)		(%)	(%)	(%)	General (HMA Base, GAB, Backfill, etc.)	HMA Surface	High Friction Materials	PCC
			T-84 & 85		T-96	ASTM D3319 & E303	MSMT 215 & 216	ASTM C1260	T-104				
Aggregate Industries, Inc.													
Millville Quarry Millville, WV													
	Coarse	#57	2.854	0.3	18	27	SDFV V	0.04	0.5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.773	1.5				0.04	1.4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Aggregate Industries, Inc.													
Rappahanock Farms Sand & Gravel Douge, VA													
	Coarse	#57	2.659	0.3	34			0.10	0.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Concrete Sand	2.592	1.0				0.10	1.4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Aggregate Industries, Inc.													
Rockville Crushed Stone Rockville, MD													
	Coarse	#57	2.727	0.4	12	34	SDFV IV	0.01	0.1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.579	2.0					1.6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Allan Myers Materials, Inc.													
Cedar Hill Quarry Peach Bottom, PA													
	Coarse	#57	2.626	0.9	14	30	SDFV IV	0.02	1.4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.556	2.0					3.9	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Allan Myers Materials, Inc.													
Elk Mills Quarry Elk Mills, MD													
	Coarse	#57	2.649	0.5	28	31	HDFV II	0.08	0.3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.633	0.5					2.5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Allan Myers Materials, Inc.													
Paradise Quarry Paradise, PA													
	Coarse	#57	2.837	0.3	29	28	SDFV V	0.02	0.3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Allegheny Aggregates, Inc.													
Bedrock Quarry Flintstone, MD													
	Coarse	#57	2.731	0.8	16	30	SDFV V	0.06	3.3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Note [1]: Category I (HDFV I): DFV-50
Category IV (SDFV IV): DFV-30

Category II (HDFV II): DFV-45
Category V (SDFV V): DFV-25

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October 31, 2016**

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** ASTM C1293

Maryland State Highway Administration: Coarse and Fine Aggregate Test Data

Producer	Aggregate Category	Aggregate Type	Specific Gravity	ABS	LA	Friction Rating[1]	ASR	Soundness	Material Tested For				
			(SSD)	(%)	(%)		(%)	(%)					
			T-84 & 85	(%)	T-96	ASTM D3319 & E303	MSMT 215 & 216	ASTM C1260	T-104	General (HMA Base, GAB, Backfill, etc.)	HMA Surface	High Friction Materials	PCC
Allegany Aggregates, Inc.													
Short Gap Quarry Keyser, WV													
	Coarse	#67	2.713	0.4	21	26	SDFV V	0.13	3.8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Bluegrass Materials Company, LLC													
Beaver Creek East Quarry Hagerstown, MD													
	Coarse	#57	2.757	0.4	16	30	SDFV IV	0.23	0.1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.667	2.6					2.1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bluegrass Materials Company, LLC													
Blue Mount Materials White Hall, MD													
	Coarse	#57	2.750	0.4	36	32	HDFV III	0.06	3.4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.819	0.3				0.04	5.2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Bluegrass Materials Company, LLC													
Churchville Quarry Bel Air, MD													
	Coarse	#57	3.001	0.3	22	28	HDFV III	0.02	1.1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	3.003	0.4					2.7	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bluegrass Materials Company, LLC													
Frederick Quarry Frederick, MD													
	Coarse	#57	2.715	0.2	23	34	SDFV IV	0.04	0.3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.681	0.9					5.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bluegrass Materials Company, LLC													
Kent Sand & Gravel, LLC Massey, MD													
	Fine	Concrete Sand	2.627	0.4				0.22	2.8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Note [1]: Category I (HDFV I): DFV-50
Category IV (SDFV IV): DFV-30

Category II (HDFV II): DFV-45
Category V (SDFV V): DFV-25

Category III (HDFV III): DFV-40
Category VI (LDFV VI): DFV is less than 25.

**Updated:
October 31, 2016**

* See notes on front page of Aggregate Bulletin

** ASTM C1293

Maryland State Highway Administration: Coarse and Fine Aggregate Test Data

Producer	Aggregate Category	Aggregate Type	Specific Gravity	ABS	LA	Friction Rating[1]	ASR	Soundness	Material Tested For				
			(SSD)	(%)	(%)		(%)	(%)	(%)	General (HMA Base, GAB, Backfill, etc.)	HMA Surface	High Friction Materials	PCC
			T-84 & 85		T-96	ASTM D3319 & E303	MSMT 215 & 216	ASTM C1260	T-104				
Bluegrass Materials Company, LLC													
Medford Quarry New Windsor, MD													
	Coarse	#57 Medford Basalt	2.928	0.5	29	38	HDFV I	0.02	1.2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Coarse	#67 Medford Limestone	2.694	0.6	42	24	SDFV V	0.03	1.3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10 Medford Limestone	2.701	0.5				0.01	3.9	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Bluegrass Materials Company, LLC													
North East Quarry North East, MD													
	Coarse	#57	2.879	0.4	15	31	HDFV III	0.09	0.2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.865	1.1					4.7	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bluegrass Materials Company, LLC													
Texas Quarry Cockeysville, MD													
	Coarse	#57	2.836	0.2	38	29	SDFV V	0.06	1.0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Concrete Sand	2.799	0.3				0.03	2.8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Bluegrass Materials Company, LLC													
Warfordsburg Warfordsburg, PA													
	Coarse	#57	2.709	0.5	19	31	SDFV V	0.29	1.2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.650	1.6					4.2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bluegrass Materials Company, LLC													
Yali Quarry Yali, Greece													
	Fine	#10	1.931	3.4					2.2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Carolina Stalite Company													
Gold Hill Gold Hill, NC													
	Coarse	#57	1.541	4.1	29			0.10	0.2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Concrete Sand	1.885	4.7				0.08	1.9	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Note [1]: Category I (HDFV I): DFV-50
Category IV (SDFV IV): DFV-30

Category II (HDFV II): DFV-45
Category V (SDFV V): DFV-25

Category III (HDFV III): DFV-40
Category VI (LDFV VI): DFV is less than 25.

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Maryland State Highway Administration: Coarse and Fine Aggregate Test Data

Producer	Aggregate Category	Aggregate Type	Specific Gravity	ABS	LA	Friction Rating[1]	ASR	Soundness	Material Tested For				
			(SSD)	(%)	(%)		(%)	(%)	(%)	General (HMA Base, GAB, Backfill, etc.)	HMA Surface	High Friction Materials	PCC
			T-84 & 85		T-96	ASTM D3319 & E303	MSMT 215 & 216	ASTM C1260	T-104				
Chaney Enterprises, Inc. Loveville Quarry Loveville, MD													
	Coarse	# 67	2.582	0.9	36			0.14	5.6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Concrete Sand	2.625	0.4				0.23	1.9	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Chaney Enterprises, Inc. Riddle Pit Harwood, MD													
	Coarse	#57	2.617	0.4	43			0.28	0.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Concrete Sand	2.634	0.3				0.28	0.9	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Chaney Enterprises, Inc. Sussex Sand & Gravel Seaford, DE													
	Fine	Concrete Sand	2.633	0.4				0.18	2.2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Mortar	2.629	0.4					0.9	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chaney Enterprises, Inc. Vienna Sand & Gravel Rhodesdale, MD													
	Fine	Concrete Sand	2.627	0.4				0.16	1.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Chaney Enterprises, Inc. Waldorf Quarry Waldorf, MD													
	Coarse	#67	2.577	1.0	32			0.24	2.8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Concrete Sand	2.623	0.4				0.24	1.4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Chaney Enterprises, Inc. Shore Sand & Gravel Bridgetown Facility Henderson, MD													
	Coarse	#57	2.580	1.2	40			0.14	0.6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Concrete Sand	2.597	0.9				0.14	1.4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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Category V (SDFV V): DFV-25

Category III (HDFV III): DFV-40
Category VI (LDFV VI): DFV is less than 25.

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Maryland State Highway Administration: Coarse and Fine Aggregate Test Data

Producer	Aggregate Category	Aggregate Type	Specific Gravity	ABS	LA	Friction Rating[1]	ASR	Soundness	Material Tested For				
			(SSD)	(%)	(%)		(%)	(%)	(%)	General (HMA Base, GAB, Backfill, etc.)	HMA Surface	High Friction Materials	PCC
			T-84 & 85	(%)	T-96	ASTM D3319 & E303	MSMT 215 & 216	ASTM C1260	T-104				
County Line Quarry, Inc.													
County Line Quarry Wrightsville, PA													
	Coarse	#57	2.754	0.5	24	41	HDFV I		0.3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Fine	#10	2.728	0.9					3.8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
David A. Bramble, Inc.													
Bridgetown Sand & Gravel Goldsboro, MD													
	Fine	HMA Sand	2.581	1.6					1.0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
David A. Bramble, Inc.													
Dudley Pit Wye Mills, MD													
	Fine	HMA Sand	2.619	0.6					1.0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Disney Sand & Gravel, LLC													
Hebron Quarry Hebron, MD													
	Fine	Concrete Sand	2.615	0.7				0.13	2.4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Mortar	2.603	0.7					2.4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dyer Quarry, Inc.													
Dyer Quarry Birdsboro, PA													
	Coarse	#57	2.944	0.4	15	29	HDFV III	0.02	0.6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.801	2.9					3.5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Eastern Shore Sand & Gravel, LLC													
Ingleside Plant Henderson, MD													
	Fine	Concrete Sand	2.607	0.8				0.05	1.5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Fairfax Materials Inc.													
Ours Quarry Petersburg, WV													
	Coarse	#57	2.705	0.4	39				1.5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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Category VI (LDFV VI): DFV is less than 25.

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Maryland State Highway Administration: Coarse and Fine Aggregate Test Data

Producer	Aggregate Category	Aggregate Type	Specific Gravity (SSD)	ABS (%)	LA (%)	BPN	Friction Rating[1]	ASR (%)	Soundness (%)	Material Tested For			
										T-84 & 85	T-96	ASTM D3319 & E303	MSMT 215 & 216
Fairfax Materials Inc. Scherr Quarry New Creek, WV													
	Coarse	#67	2.715	0.5	23			0.07	1.3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Fairfax Materials Inc. Thomas Quarry Thomas, WV													
	Fine	Concrete Sand	2.636	0.4				0.12	2.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Garrett Limestone Co., Inc. Romesburg Quarry Garrett, PA													
	Coarse	#57	2.687	0.4	18	37	HDFV II	0.04	0.4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.634	1.4					1.4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
George's Creek Stone and Gravel, Inc. Barton Quarry Barton, MD													
	Coarse	#57: Limestone	2.732	0.5	21			0.06	1.3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Coarse	#57: Sandstone	2.545	2.3	45			0.18	2.3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10 Sandstone	2.499	3.0					1.6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Fine	#10: Limestone	2.701	1.2					1.6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Goldsboro Sand and Gravel Goldsboro Sand and Gravel/Perry Corner Goldsboro, MD													
	Fine	Concrete Sand	2.606	0.7				0.20	2.9	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Motar Sand	2.610	0.6					3.5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gudeisky Group Chantilly Crushed Stone Chantilly, VA													
	Coarse	#57	2.936	0.6	17	30	HDFV II	0.03	0.6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.897	1.4					3.2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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										T-84 & 85	T-96	ASTM D3319 & E303	MSMT 215 & 216
Gudelsky Group													
Gudelsky Materials Brandywine, MD													
	Coarse	#67	2.579	0.9	31			0.20(-)	0.9	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Concrete Sand	2.625	0.5				0.28(-)	0.6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Haines & Kibblehouse, Inc.													
Birdsboro Materials Birdsboro, PA													
	Coarse	#57	3.008	0.5	16	31	HDFV III	0.05	0.3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.893	1.8					4.4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Haines & Kibblehouse, Inc.													
Douglassville Quarry Douglassville, PA													
	Coarse	#57	2.712	0.8	11	36	HDFV II	0.09	3.6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Haines & Kibblehouse, Inc.													
Penn/MD Materials Peach Bottom, PA													
	Coarse	#57	2.681	0.8	19	31	SDFV IV	0.01	0.5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.654	1.5					2.2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Haines & Kibblehouse, Inc.													
Silver Hill Quarry Narvon, PA													
	Coarse	#57	3.010	0.4	18	28	HDFV II	0.01	0.2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.980	1.0					5.9	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Howard Sand & Gravel, Inc.													
Mardela Quarry Mardela Springs, MD													
	Fine	Concrete Sand	2.614	0.7				0.12	1.5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Mortar	2.597	0.7					0.5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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			(SSD)	(%)	(%)		(%)	(%)	(%)	General (HMA Base, GAB, Backfill, etc.)	HMA Surface	High Friction Materials	PCC
			T-84 & 85		T-96	ASTM D3319 & E303	MSMT 215 & 216	ASTM C1260	T-104				
Howlin Concrete, Inc. Mechanicsville MD Mechanicsville, MD													
	Coarse	#57	2.538(-)	2.0(-)	34			0.06(-)	6.2(-)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Concrete Sand	2.608	0.8				0.13(-)	1.5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Keystone Lime Co., Inc. Eichorn Quarry Fort Hill, PA													
	Coarse	#57 - Deer Valley Limestone	2.697	0.5	21				0.7	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Coarse	#57 - Loyalhanna	2.690	0.5	18	38	HDFV III	0.31	0.1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Kinsley Materials PenRoc Operations York, PA													
	Coarse	#57	2.761	0.4	32	27	LDFV VI	0.03	0.4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.728	0.8					1.4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Laurel Sand & Gravel, Inc. S.W. Barrick & Sons Woodsboro Quarry Woodsboro, MD													
	Coarse	#57	2.707	0.3	22	28	SDFV V	0.07	0.6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Manufacture Sand	2.680	0.8				0.07	0.8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Luck Stone Corporation Boscobel Boscobel, VA													
	Coarse	#57	2.606	0.8	29			0.11(-)	2.1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Luck Stone Corporation Caroline Plant Milford, VA													
	Fine	Concrete Sand	2.633	0.4				0.07	1.5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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Category IV (SDFV IV): DFV-30

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										T-84 & 85	T-96	ASTM D3319 & E303	MSMT 215 & 216
Luck Stone Corporation Leesburg Leesburg, VA	Coarse	#57	3.008(-)	0.5(-)	19	31	HDFV II		0.5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Luck Stone Corporation Rockville Plant Rockville, VA	Coarse	#57	2.670	0.5	21			0.08(R2)**	0.7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Luck Stone Corporation Spotsylvania - VA Spotsylvania, VA	Coarse	#57	2.745(-)	0.5(-)	28			0.06	0.8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Martin Marietta Materials Anderson Creek Quarry Rockville, VA	Coarse	#57	2.726	0.5	13			0.25	0.6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Martin Marietta Materials Boonsboro Quarry Boonsboro, MD	Coarse	#57	2.843	0.2	12	24	SDFV V	0.03	0.1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.801	1.3					1.9	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Martin Marietta Materials Doswell Doswell, VA	Coarse	#57	2.749	0.3	15			0.20	0.7	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Martin Marietta Materials Pinesburg Quarry Williamsport, MD	Coarse	#57	2.742	0.2	22	27	LDFV VI	0.07	0.3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.711	1.3					0.9	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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										T-84 & 85	T-96	ASTM D3319 & E303	MSMT 215 & 216
Martin Stone Quarries Bechtelsville Bechtelsville, PA	Coarse	#57	2.780	0.6	15	29	HDFV III	0.03	0.5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Maryland Minerals, Inc. Sang Run Quarry McHenry, MD	Fine	Concrete Sand	2.622	0.4				0.13	2.8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Maryland Minerals, Inc. Thayerville Quarry Oakland, MD	Coarse	#67	2.707	0.6	17			0.24	2.2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Melvin L. Joseph Sand and Gravel, Co. Georgetown Quarry Georgetown, DE	Fine	Concrete Sand	2.618	0.5				0.13(-)	1.8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Mortar Sand	2.618	0.6					0.5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
New Enterprise Stone & Lime Co., Inc. Burkholder Quarry Hinkletown, PA	Coarse	#57	2.799	0.3	26	26	LDFV VI	0.03	0.3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
New Enterprise Stone & Lime Co., Inc. Denver Quarry Denver, PA	Coarse	#57	2.744	0.3	17			0.13	0.2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.714	1.8					1.6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
New Enterprise Stone & Lime Co., Inc. Honey Brook Quarry Honey Brook, PA	Fine	Concrete Sand	2.629	0.4				0.06	3.5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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			(SSD)	(%)	(%)		(%)	(%)	(%)	General (HMA Base, GAB, Backfill, etc.)	HMA Surface	High Friction Materials	PCC
			T-84 & 85		T-96	ASTM D3319 & E303	MSMT 215 & 216	ASTM C1260	T-104				
New Enterprise Stone & Lime Co., Inc.													
Schoeneck Quarry Schoeneck, PA													
	Coarse	#57	2.789	0.6	17			0.01	8.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.755	0.9				0.01	2.8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
New Enterprise Stone & Lime Co., Inc.													
Valley Quarries, Inc. Chambersburg Quarry Chambersburg, PA													
	Coarse	#57	2.710	0.3	23	31	SDFV V	0.24	2.4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.644	1.7					1.4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
New Enterprise Stone & Lime Co., Inc.													
Valley Quarries, Inc. Fairfield Quarry Fairfield, PA													
	Coarse	#57	2.783	0.9	25	32	SDFV IV	0.09	1.3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.704	2.3					5.6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
New Enterprise Stone & Lime Co., Inc.													
Valley Quarries, Inc. Gettysburg Quarry Gettysburg, PA													
	Coarse	#57	2.750	0.6	10	31	HDFV I	0.27	0.6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.684	2.7					1.6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
New Enterprise Stone & Lime Co., Inc.													
Valley Quarries, Inc. Mt. Cydonia, Plant I Fayetteville, PA													
	Fine	Concrete Sand	2.617	0.6				0.27	1.2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
New Enterprise Stone & Lime Co., Inc.													
Valley Quarries, Inc. Williamson Quarry Williamson, PA													
	Coarse	#57	2.730	0.4	22	27	SDFV V	0.02	0.4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.648	2.0					2.4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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Category IV (SDFV IV): DFV-30

Category II (HDFV II): DFV-45
Category V (SDFV V): DFV-25

Category III (HDFV III): DFV-40
Category VI (LDFV VI): DFV is less than 25.

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Maryland State Highway Administration: Coarse and Fine Aggregate Test Data

Producer	Aggregate Category	Aggregate Type	Specific Gravity	ABS	LA	Friction Rating[1]	ASR	Soundness	Material Tested For				
			(SSD)	(%)	(%)		(%)	(%)	(%)	General (HMA Base, GAB, Backfill, etc.)	HMA Surface	High Friction Materials	PCC
			T-84 & 85		T-96	ASTM D3319 & E303	MSMT 215 & 216	ASTM C1260	T-104				
Pennsy Supply, Inc.													
East Petersburg/East Hempfield TWP Manheim, PA													
	Coarse	#57	2.771	0.3	22	27	SDFV IV	0.06	2.0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.701	1.0					4.2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pennsy Supply, Inc.													
Fiddler's Elbow North Middletown, PA													
	Coarse	#57	2.807	0.3	17	26	LDFV VI	0.02	0.1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.767	1.7					3.0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pennsy Supply, Inc.													
Millard Quarry Annville, PA													
	Coarse	#57	2.811	0.3	17	23	LDFV VI	0.07	0.3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.704	1.7					1.5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pennsy Supply, Inc.													
Mt. Holley / Dickinson Township Mount Holly Springs, PA													
	Fine	Concrete Sand	2.618	0.4				0.29	2.4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Pennsy Supply, Inc.													
Prescott/South Lebanon Township Lebanon, PA													
	Coarse	#57	2.794	0.2	23	24	LDFV VI	0.02	0.4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.685	1.9					4.0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pioneer Materials													
Bay Road Plant Dover, DE													
	Fine	Concrete Sand	2.598	0.6				0.14	1.7	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Pioneer Materials													
Tarburton Plant Dover, DE													
	Fine	Concrete Sand	2.600	0.7				0.14	1.3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Mortar	2.612	0.5					2.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Note [1]: Category I (HDFV I): DFV-50
Category IV (SDFV IV): DFV-30

Category II (HDFV II): DFV-45
Category V (SDFV V): DFV-25

Category III (HDFV III): DFV-40
Category VI (LDFV VI): DFV is less than 25.

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Maryland State Highway Administration: Coarse and Fine Aggregate Test Data

Producer	Aggregate Category	Aggregate Type	Specific Gravity (SSD)	ABS (%)	LA (%)	Friction Rating[1]	ASR (%)	Soundness (%)	Material Tested For			
									BPN	ASTM D3319 & E303	MSMT 215 & 216	ASTM C1260
Recycled Conservation Group												
Tolson Crofton, MD												
	Fine	Concrete Sand	2.646	0.4			0.12	1.4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Reliable Contracting Company, Inc.												
BBSS Pit Gambrills, MD												
	Fine	Concrete Sand	2.650	0.6			0.09	2.7	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Rockville Fuel & Feed												
Marshyhope Operations, LLC Rosser Pit Federalsburg, MD												
	Fine	Concrete Sand	2.608	0.8			0.17	1.4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Motor Sand	2.612	0.7				1.2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Rohrer Quarry												
Lititz - PA Lititz, PA												
	Coarse	#57	2.774	0.2	24		0.06	0.6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.793	1.4	24		0.06	2.3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ryan Forms, LLC DBA												
Ingleside Plant, Formerly York Building Merrick Sand & Gravel, Ingleside, MD												
	Fine	Concrete Sand	2.591	1.3			0.18	1.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Motar Sand	2.559	1.3				1.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Savage Stone, LLC												
Savage Quarry Jessup, MD												
	Coarse	#57	2.927	0.9	25			9.6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shelly Materials, Inc.												
Reedsville Reedsville, OH												
	Fine	Concrete Sand	2.621	1.2			0.30	1.4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Note [1]: Category I (HDFV I): DFV-50
Category IV (SDFV IV): DFV-30

Category II (HDFV II): DFV-45
Category V (SDFV V): DFV-25

Category III (HDFV III): DFV-40
Category VI (LDFV VI): DFV is less than 25.

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Producer	Aggregate Category	Aggregate Type	Specific Gravity	ABS	LA	Friction Rating[1]	ASR	Soundness	Material Tested For				
			(SSD)	(%)	(%)		(%)	(%)	(%)	General (HMA Base, GAB, Backfill, etc.)	HMA Surface	High Friction Materials	PCC
			T-84 & 85		T-96	ASTM D3319 & E303	MSMT 215 & 216	ASTM C1260	T-104				
Sloan Materials, LLC Leonardtown MD Leonardtown, MD													
	Fine	Concrete Sand	2.610	0.9				0.21	2.75	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
St. Thomas Development, Inc. St. Thomas Development St. Thomas, PA													
	Coarse	#57	2.740	0.3	20	27	LDFV VI	0.14	0.3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.693	1.5					1.6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Titan Mid-Atlantic Aggregates Waverly Sand Plant Waverly, VA													
	Fine	Concrete Sand	2.623	0.3				0.13	1.9	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Vulcan Materials Company, Inc. Brooklyn MD Terminal Baltimore, MD													
	Fine	Concrete Sand	2.614	0.9				0.13	2.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Vulcan Materials Company, Inc. Frederick Plant Frederick, MD													
	Coarse	#57	2.725	0.5	23	33	SDFV IV	0.20(-)	0.6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Manufactured Sand	2.706	1.1				0.20(-)	2.4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Vulcan Materials Company, Inc. Graham Quarry Lorton, VA													
	Coarse	#57	2.662	0.5	29	31	HDFV II	0.06	0.3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.665	0.4					1.9	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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										T-84 & 85	T-96	ASTM D3319 & E303	MSMT 215 & 216
Vulcan Materials Company, Inc.													
Hanover Plant Hanover, PA													
	Coarse	#57	2.792	0.4	23	26	SDFV V	0.02	1.4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Manufactured Sand	2.789	0.4				0.02	2.4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Vulcan Materials Company, Inc.													
Havre de Grace Quarry Havre de Grace, MD													
	Coarse	#57	2.797	0.3	16	29	HDFV III	0.13	0.2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10 Dust	2.807	0.2					3.7	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vulcan Materials Company, Inc.													
Jack Quarry Petersburg, VA													
	Coarse	#57	2.637	0.5	25			0.08(-)	0.6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Vulcan Materials Company, Inc.													
James Pit Georgetown, DE													
	Fine	Concrete Sand	2.607	0.9				0.13	1.3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Mortar	2.601	0.8					1.2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vulcan Materials Company, Inc.													
Laurel Laurel, DE													
	Fine	Concrete Sand	2.590	0.8				0.10	2.7	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Mortar Sand	2.601	1.3					3.6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vulcan Materials Company, Inc.													
Manassas Quarry Manassas, VA													
	Coarse	#57	2.945	0.7	14			0.10	0.5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.749	4.2					6.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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Producer	Aggregate Category	Aggregate Type	Specific Gravity (SSD)	ABS (%)	LA (%)	BPN	Friction Rating[1]	ASR (%)	Soundness (%)	Material Tested For			
										T-84 & 85	T-96	ASTM D3319 & E303	MSMT 215 & 216
Vulcan Materials Company, Inc.													
Pocomoke Sand Plant Pocomoke City, MD													
	Fine	Concrete Sand	2.629	0.4				0.15	2.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Motar Sand	2.631	0.4					0.6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vulcan Materials Company, Inc.													
Puddledock Prince George, VA													
	Fine	Concrete Sand	2.533	0.5				0.06(-)	0.8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Vulcan Materials Company, Inc.													
Sanders Quarry Warrenton, VA													
	Coarse	#57	2.965	0.8	13	30	HDFV I	0.19	0.1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.885	2.4					2.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vulcan Materials Company, Inc.													
Seaford Terminal Seaford, DE													
	Fine	Concrete Sand	2.608	0.6				0.12	2.7	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Vulcan Materials Company, Inc.													
Stafford Quarry Garrisonville, VA													
	Coarse	#57	2.920	0.4	14			0.12	0.7	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Vulcan Materials Company, Inc.													
York Plant York, PA													
	Coarse	#57	2.845	0.3	28	27	SDFV V	0.01	0.2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Manufactured Sand	2.815	0.5				0.02	1.8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
York Building Products													
Lincoln Stone Division Thomasville Quarry Thomasville, PA													
	Coarse	#57	2.761	0.4	30			0.04	0.5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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			(SSD)	(%)	(%)		(%)	(%)	(%)	General (HMA Base, GAB, Backfill, etc.)	HMA Surface	High Friction Materials	PCC
			T-84 & 85		T-96	ASTM D3319 & E303	MSMT 215 & 216	ASTM C1260	T-104				
York Building Products													
Roosevelt Ave Division York Quarry York, PA													
	Coarse	#57	2.784	0.3	28	25	LDFV VI	0.02	0.3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	#10	2.723	0.8					2.1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
York Building Products													
Mason-Dixon Materials Belvedere Plant Port Deposit, MD													
	Fine	Concrete Sand	2.651	0.3				0.07	2.6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
York Building Products													
Mason-Dixon Materials Cecil Plant Port Deposit, MD													
	Fine	Concrete Sand	2.629	0.6				0.05	1.2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
York Building Products													
Mason-Dixon Materials Perryville Plant Port Deposit, MD													
	Fine	Concrete Sand	2.632	0.6				0.01	2.3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fine	Mortar	2.644	0.6					3.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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