## West Virginia Division Of Highways Hot-Mix Asphalt Volumetric Property Worksheet

Lab Number:	Material Type:
Source:	Project:
T400 Design Number:	Field Sample Number:
Compaction Temperature: °C	Gyrations at N <sub>initial</sub> :
Percent Binder:	Gyrations at N <sub>design</sub> :
Percent Aggregate (Y):	Gyrations at N max:
Bulk Aggregate Sp. Gr. (Z):	Date Sampled:
Technician:	Date Completed:

	Maximum Specific Gravity - Bowl Method (AASHTO T-209)		
Α	Sample Weight		
В	Bowl + Sample in Water Weight		
С	Bowl in Water (Calibration Weight)		
D	Surface Dry Sample Weight (For Dry-Back Procedure Only)		
Е	Max. Sp. Gr. = A / [A - (B - C)] or Dry-Back Max. Sp. Gr. = A / [D - (B - C)]		

	Bulk Specific Gravity At N design - (AASHTO T-166)						
	Compacted Specimens	1	2	N <sub>max</sub> Sample	Average		
F	Weight in Air				Bulk Specific		
G	Saturated Surface Dry Weight				Gravity At		
Н	Weight in Water				N <sub>design</sub>		
J	Bulk Specific Gravity = F / (G - H)						
	Unit Weight (kg/m <sup>3</sup> ) = J x 1000						

Void Analysis (AASHTO T-269 And PP-28)		
Κ	Percent Air Voids (AV) at 'N' design = [(E - J) / E] x 100	
L	L Percent Voids in Mineral Aggregate (VMA) at 'N' design = 100 - [(J x Y) / Z]	

Percent of Maximum Specific Gravity of Compacted Specimens					
	1	2	N <sub>max</sub> Sample	N <sub>design</sub> Average	
Percent of Max. Spec. Gravity at N initial:					
Percent of Max. Spec. Gravity at N <sub>design</sub> :					
Percent of Max. Spec. Gravity at N max:					