

LABORATORY MOISTURE - DENSITY RELATIONSHIP
DOTD TR 418 - Methods H & I
(English)

PROJECT NO. _____ DATE: _____ LAB NO: _____
 * TYPE ADDITIVE: _____ TYPE SOIL: _____ SAMPLE NO: _____
 TESTED BY: _____ CHECKED BY: _____

* MAX. DRY DENSITY OF MATL. (FROM TR 418, METHOD H), lb/ft ³	A	
* REQUIRED % BY VOL. OF ADDITIVE (___ TR 432-B, ___ TR 416, ___ specified)	B	
* % WT. OF ADDITIVE (___ chart, ___ formula)	C	
DRY WT. OF MATERIAL (Representative portion), lb	D	
* WT. OF ADDITIVE TO BE ADDED, lb	E	(C x D) + 100
* TOTAL DRY WT. OF MATERIAL AND ADDITIVE, lb	F	D + E

** FOR USE WITH DOTD TR 418, METHOD I ONLY*

CURVE POINT NO.	***		1	2	3	4	5	6
WATER ADDED, mL	G	See Calculations						
WT. MOLD, BASE (if appl.) & WET MATL., lb	H							
WT. MOLD & BASE (if applicable), lb	I							
WT. WET COMPACTED MATERIAL, lb	J	H - I						
VOLUME OF MOLD (or specimen), ft ³	K							
WT. OF PAN & DRY MATERIAL, lb	L							
WT. OF PAN, lb	M							
WT. OF DRY MATERIAL, lb	DW	L - M						
WT. OF WATER, lb	WW	J - DW						
WET DENSITY, lb/ft ³	WWD	J / K						
MOISTURE CONTENT, %	MC	(WW/DW) x 100						
DRY DENSITY, lb/ft ³	DWD	$\frac{WWD}{100 + MC} \times 100$						

REMARKS: _____

