Unconfined Compression Test

Test Data Sheet

Project: R-0623 NC 24/27 Troy Bypass
F&R Project No.: 66N-0209

Boring No.: Sta. 158+00_RT
Sample ID: RS - 3
Depth, ft.: 21.5' to 22.0'

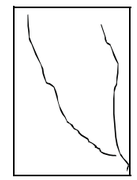
Specimen Description: Pink, white, dark red, and green, metavolcanic (felsic) tuff

Specimen Conditions	
Diameter (in.)	1.87
Height (in.)	3.90
Area (in^2)	2.75
Unit Wt. (pcf)	157.8

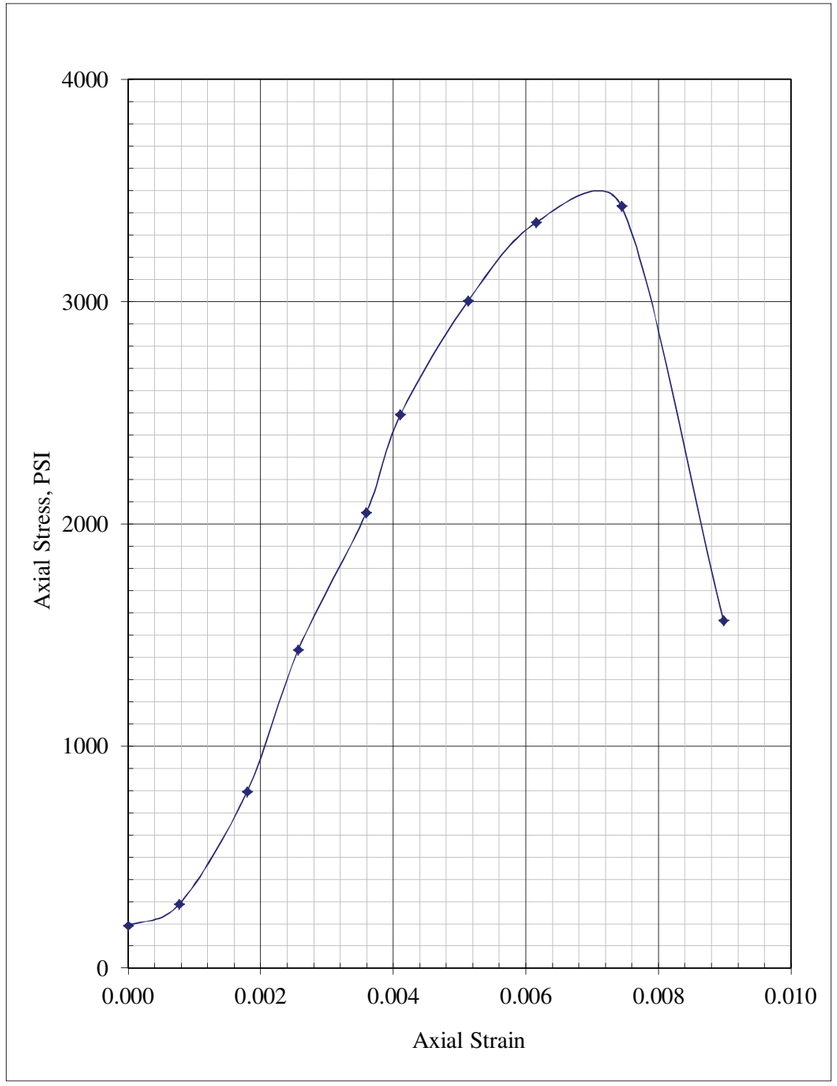
Shear Testing Conditions	
Loading Rate (%/min):	0.02 in/min.

Youngs Modulus (average): 8.46 x 10^4 ksf

Failure Sketch



Reading No.	Dial Guage Reading (in.)	Axial Load (lbs)	Total Axial Deformation (in.)	Axial Strain	Corrected Area[1] (in^2)	Axial Stress (psi)	Axial Stress (Kpa)
1	0.000	526	0.000	0.0000	2.75	191.24	1318.54
2	0.003	791	0.003	0.0008	2.75	287.58	1982.81
3	0.007	2185	0.007	0.0018	2.75	794.39	5477.10
4	0.010	3940	0.010	0.0026	2.75	1432.43	9876.25
5	0.014	5640	0.014	0.0036	2.75	2050.46	14137.43
6	0.016	6850	0.016	0.0041	2.75	2490.35	17170.37
7	0.020	8262	0.020	0.0051	2.75	3003.66	20709.51
8	0.024	9231	0.024	0.0062	2.75	3355.91	23138.17
9	0.029	9431	0.029	0.0074	2.75	3428.57	23639.18
10	0.035	4300	0.035	0.0090	2.75	1563.21	10777.96



Notes: 1. Right Cylinder Correction Method