Alabama Department of Transportation
Bureau of Materials and Tests Testing Manual

**Rate of Spread and Pulverization
of Cement Stabilized Soil**

BMT – 80
Revised July 8, 2008

PROJECT:_____

DIVISION:_____

COUNTY:_____

DATE:_____

A	B	C	D	E	F	G	H	I	J	K	PULVERIZATION DATA				
LENGTH OF SPREAD	CEMENT TRUCK #	SAMPLE #	WEIGHT OF CEMENT (LBS)	WIDTH OF SPREAD (FT)	PULVERIZED THICKNESS (IN)	DENSITY OF SOIL[1] (LBS/FT^3)	% CEMENT	LBS OF CEMENT PER LIN FT [2]	LENGTH OF SPREAD[3]	S.Y. SPREAD[4]	TOTAL WEIGHT OF SAMPLE (LBS)	SIEVES REQ'D	WEIGHT RETAINED (LBS)	% PASSING	% MOISTURE
STA_____ TO STA_____												2" _____ #4 _____	_____ _____	
STA_____ TO STA_____												2" _____ #4 _____	_____ _____	
STA_____ TO STA_____												2" _____ #4 _____	_____ _____	
STA_____ TO STA_____												2" _____ #4 _____	_____ _____	
STA_____ TO STA_____												2" _____ #4 _____	_____ _____	
STA_____ TO STA_____												2" _____ #4 _____	_____ _____	

[1] From Soil-Cement Design

[2] Use Formula I = (E x F x G x H)/1200

[3] Use Formula J = D/I (This should be approximately equal to length in Column A. If J is not equal to A then investigate cement spread rate)

[4] Use Formula K= (E x J)/9

X_____

PROJECT ENGINEER