



ASTM Proposed - WK11340
STANDARD TEST METHOD FOR DETERMINATION OF SEDIMENT RETENTION DEVICES (SRDs)
PERFORMANCE IN REDUCING SOIL LOSS FROM RAINFALL-INDUCED EROSION DURING PERIMETER
CONTROL APPLICATIONS

Client: GSWCC
Test Dates: 18-Apr-12 12-Apr-12 20-Apr-12
Rainfall Rates: 2,4,6 in/hr (target)
Bed Slope: 3 to 1
Event: 20 minutes at each intensity (60 min. total)
Product: BSRF

Plot	Intensity (in/hr)	Runoff (gallons)	Cumm. R Factor	Soil Loss (lbs/plot/event)	Cumm. Soil Loss (T/A)	Average P Factor
Slope 1	2.15	7.34	10.71	0.025	0.002	0.00261
	4.00	50.93	74.27	0.489	0.035	0.00783
	6.00	102.15	234.37	1.185	0.116	0.00821
Bare Soil Controls			10.71		0.644	
			74.27		4.464	
			234.37		14.086	

Plot	Intensity (in/hr)	Runoff (gallons)	Cumm. R Factor	Soil Loss (lbs/plot/event)	Cumm. Soil Loss (T/A)	Average P Factor
Slope 2	2.05	6.51	9.68	0.043	0.003	0.00503
	4.04	55.61	73.28	0.597	0.044	0.00989
	6.04	114.99	235.58	1.194	0.125	0.00882
Bare Soil Controls			9.68		0.582	
			73.28		4.404	
			235.58		14.158	

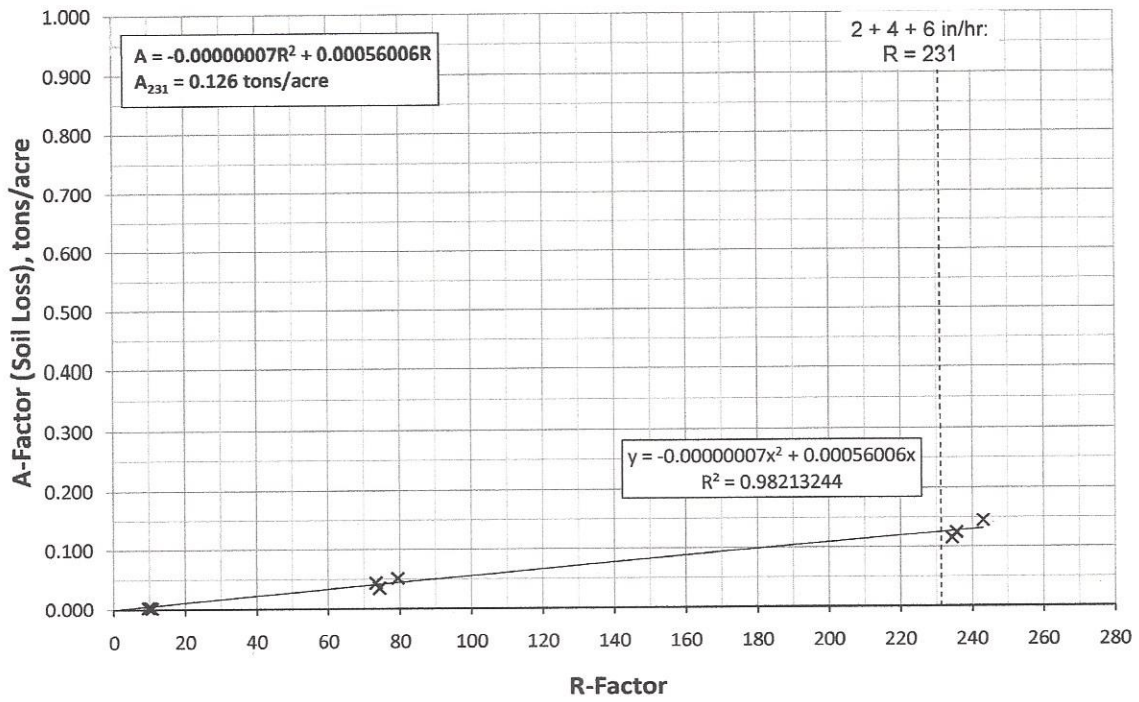
Plot	Intensity (in/hr)	Runoff (gallons)	Cumm. R Factor	Soil Loss (lbs/plot/event)	Cumm. Soil Loss (T/A)	Average P Factor
Slope 3	2.11	3.69	10.29	0.044	0.003	0.00483
	4.21	67.86	79.40	0.709	0.051	0.01074
	6.04	125.84	243.07	1.379	0.145	0.00993
Bare Soil Controls			10.29		0.619	
			79.40		4.772	
			243.07		14.609	

Note: The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose

CJS 5/31/12

 Quality Review / Date

**A-Factor vs. R-Factor
(BSRF on Sandy-Clay; 3:1 Slope)**





TYPICAL TESTING PICTURES



Test Slope Prepared and Fence Installed



After 2 in/hr Event



After 4 in/hr Event



After 6 in/hr Event



Typical Control Run - Before and After