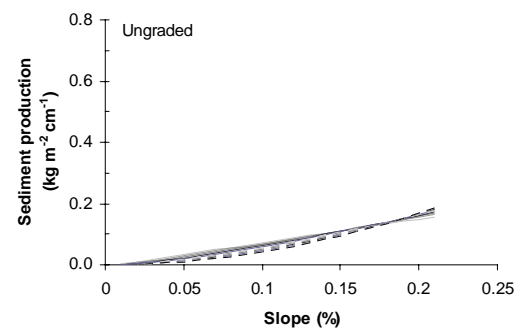
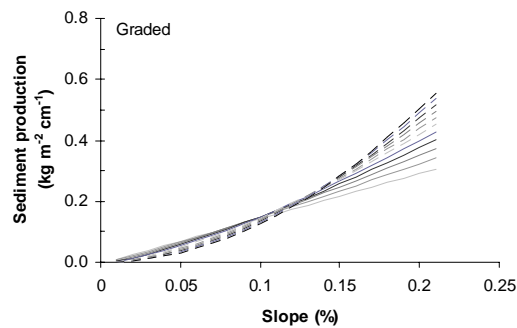
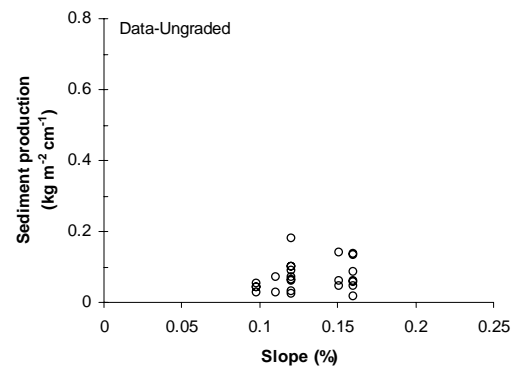
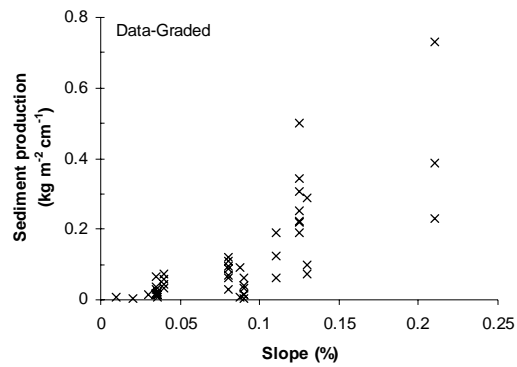


APPENDIX I-C  
SUMMARY OF MULTIPLE REGRESSION ANALYSIS  
FOR ROAD EROSION MODEL

Appendix I-C. Summary of multiple regression analysis for the relationship between precipitation, slope, area-slope, and grading.

Model	Model R <sup>2</sup>	Model p value	Intercept (p value)	Slope <sup>i</sup> * Precipitation parameter (p value)	Slope <sup>i</sup> * Precipitation * Grading Parameter (p value)
Slope <sup>1.0</sup>	0.61	<0.0001	-0.635 (0.0801)	0.772 (<0.0001)	0.714 (<0.0001)
Slope <sup>1.1</sup>	0.66	<0.0001	-0.651 (0.0529)	0.941 (<0.0001)	0.988 (<0.0001)
Slope <sup>1.2</sup>	0.69	<0.0001	-0.627 (0.0453)	1.13 (<0.0001)	1.33 (<0.0001)
Slope <sup>1.3</sup>	0.72	<0.0001	-0.576 (0.0501)	1.35 (<0.0001)	1.743 (<0.0001)
Slope <sup>1.4</sup>	0.74	<0.0001	-0.509 (0.0678)	1.60 (<0.0001)	2.24 (<0.0001)
Slope <sup>1.5</sup>	0.75	<0.0001	-0.433 (0.1047)	1.88 (<0.0001)	2.85 (<0.0001)
Slope <sup>1.6</sup>	0.76	<0.0001	-0.353 (0.1709)	2.21 (<0.0001)	3.59 (<0.0001)
Slope <sup>1.7</sup>	0.76	<0.0001	-0.272 (0.2779)	2.60 (<0.0001)	4.48 (<0.0001)
Slope <sup>1.8</sup>	0.76	<0.0001	-0.193 (0.4321)	3.06 (<0.0001)	5.55 (<0.0001)
Slope <sup>1.9</sup>	0.76	<0.0001	-0.117 (0.6297)	3.59 (<0.0001)	6.84 (<0.0001)
Slope <sup>2.0</sup>	0.76	<0.0001	-0.044 (0.8547)	4.22 (<0.0001)	8.39 (<0.0001)
Area*slope	0.68	<0.0001	-0.202 (0.4929)	0.0029 (<0.0001)	0.00099 (0.0673)

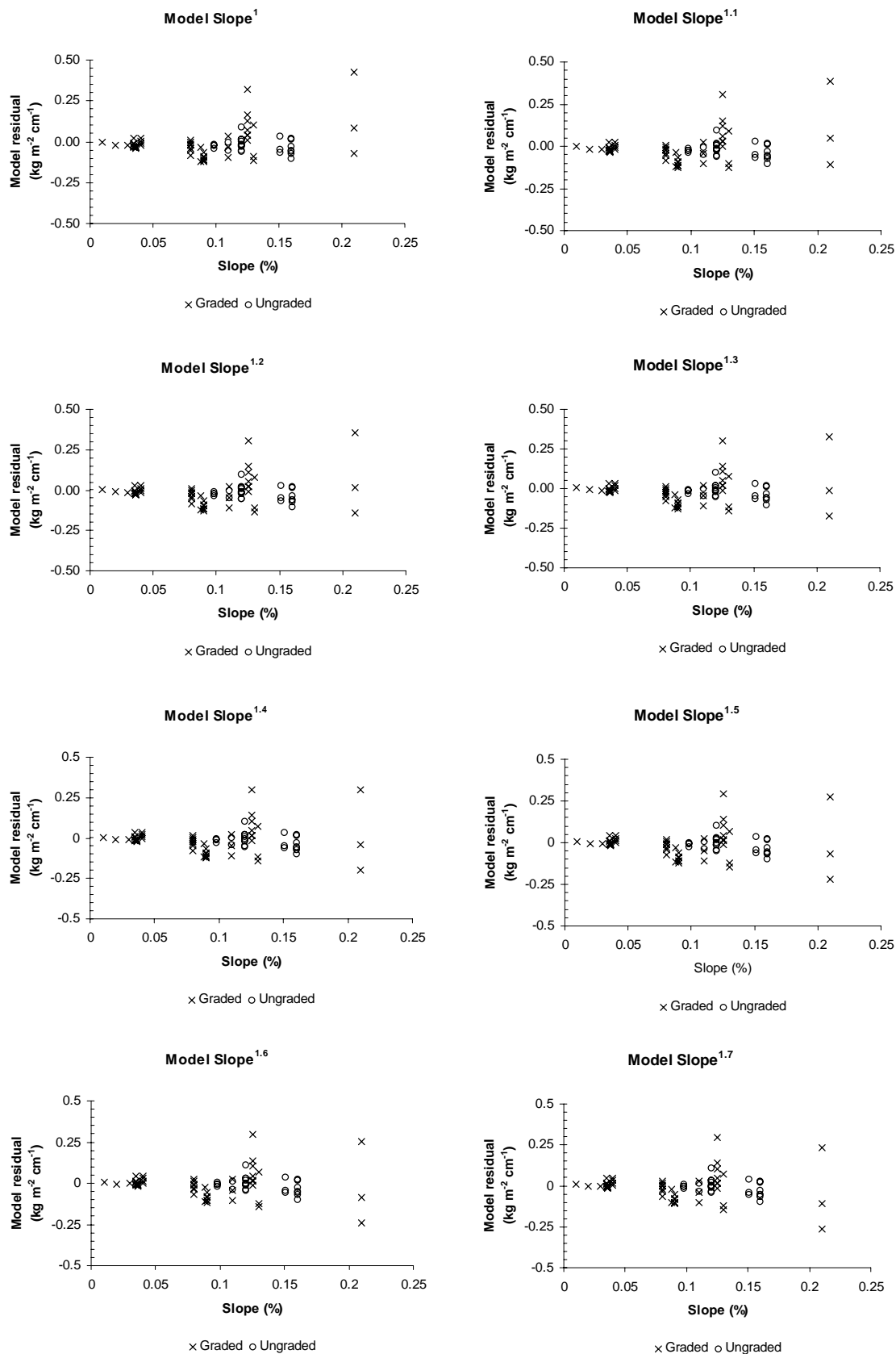
Appendix I-C. Graphs showing the relationship between sediment production and slope for sediment trap data and different empirical erosion models.



— S1 — S11 — S12 — S13 — S14 — S15  
 - - - S16 - - - S17 - - - S18 - - - S19 - - - S2

— S1 — S11 — S12 — S13 — S14 — S15  
 - - - S16 - - - S17 - - - S18 - - - S19 - - - S2

Appendix I-C. Graphs showing the relationship between residual sediment production and slope for different empirical erosion models.



Appendix I-C. Graphs showing the relationship between residual sediment production and slope for different empirical erosion models.

