



Emriver Modeling Media



Description

Our unique modeling media provides remarkable visualization of sediment transport processes and enhances teaching and research in fluvial geomorphology. The media is made of ground melamine plastic and is about 60 percent the density of quartz sand (1.6 g/cc). This means the media can demonstrate river behavior and channel morphology with impressive accuracy at the space and time scales of our stream tables. The media is lightweight, easy to transport, won't damage pumps, and is much easier to clean than sand and other lithic materials. We offer two types of media: Non Color-Coded and Color-Coded by Size. Color-coding allows for visualization of sediment transport and deposition according to grain size. From K-12 education to advanced sedimentology research, our modeling media is a powerful teaching and research tool.

Specifications

Material	Particle Size Range	Density
Ground thermoset melamine plastic	0.125mm – 2mm	1.6 g/cc
Non-Color-Coded Media: “Alpha” Mix <ul style="list-style-type: none"> Media particle sizes are between 0.4 mm and 2.0 mm Demonstrates erosion, sediment transport, and other fluvial processes Most economical media 	Color-Coded Media: “Carbondale” Mix <ul style="list-style-type: none"> Average particle sizes: <ul style="list-style-type: none"> Yellow: 1.4 mm White: 1.0 mm Black: 0.7 mm Red: 0.4 mm Demonstrates sedimentation, erosion, particle transport, and other fluvial processes by particle size 	Color-Coded Media: “Memphis” Mix <ul style="list-style-type: none"> Average particle sizes: <ul style="list-style-type: none"> Yellow: 1.02 mm White: 0.62 mm Black: 0.33 mm Red: 0.14 mm Finer particles sizes than the Carbondale mix; allows demonstration of certain geologic processes such as landslides, headcuts, and dam and levee failure



Emriver Media Sizes and Distributions

Alpha

Size	Mesh	mm	Percentage
Super Fine	40/60	0.250-0.400	10%
Fine	20/40	0.400-0.841	22.50%
Medium	16/20	0.841-1.190	45%
Coarse	12/16	1.190-1.680	22.50%



Carbondale

Color	Mesh	mm	Percentage
Red	40/60	0.250-0.400	4.00%
Black	20/30	0.595-0.841	44.00%
White	16/20	0.841-1.190	44.00%
Yellow	10/16	1.190-2.000	8.00%



Memphis

Color	Mesh	mm	Percentage
Red	60/120	0.125-0.250	4.00%
Black	40/60	0.250-0.400	29.00%
White	20/40	0.400-0.841	61.00%
Yellow	16/20	0.841-1.190	6.00%

