



## Research and Development Technical Documents Listing

The following references are listed here to provide a reference to pertinent documents related to the science and technology behind Rolled Erosion Control Products (RECPs) as flexible channel liners and slope protection. Western Excelsior continually conducts tests and research on each variety of RECP manufactured. As the understanding of the performance of RECPs improves as well as new ways to utilize RECPs are discovered, the following list of documents will be updated.

Pertinent RECP Documents, Updated 8/1/05:

AASHTO/NTPEP. 2004. "AASHTO's National Transportation Product Evaluation Program." NTPEP Report 12001.2, March.

Abt, S.R., Clopper, P.E, and T.G. Sanders. 1990. "A Quantitative Test of Erosion Control Materials." IECA Conference Proceedings, pp. 209-220.

Adams, R.C., Cox, A.L., and T.B. Lawson. 1971. "Louisiana Highway Research Erosion Control Study Part II Roadside Channels." Louisiana Department of Highways Research and Development Report No. 56, April.

Ahmed, S., Dickinson, T., Negi, S., and R. Rudra. 1991. "Development of Erosion Control Effectiveness Indices for Erosion Control Ditch Liners." Ontario Ministry of Transportation, September.

Armstrong, J.J. 1992. "Protocol for the Testing of Surficial Erosion Control Materials (Revised)." Ontario Ministry of Transportation Research and Development, April.

Armstrong, J.J. and G.F. Wall. 1990. "Quantitative Evaluation of the Effectiveness of Erosion Control Materials." Ontario Ministry of Transportation Research and Development, November.

Armstrong, J.J. and G.F. Wall. 1991. "Comparative Evaluation of the Effectiveness of Erosion Control Materials." Ontario Ministry of Transportation Research and Development, September.

Austin, D.N. and T. Lancaster. 1994. "Classifying Rolled Erosion Control Products: A Current Perspective." Geotechnical Fabrics Report, October/November.

- Brzozowski, C. 2004. "Research and Testing of ESC Products and Methods: Who Sets the Standards?" *Erosion Control Magazine*, September/October, pp. 56-66.
- Cabalka, D.A., Clopper, P.E., Johnson, A.G., and M.T. Vielleux. 1998. "Research, Development and Implementation of Test Protocols for Rainfall Erosion Facilities (REFS)." Proceedings of Conference XXIX, IECA, Reno, NV, pp. 249 - 263.
- Cabalka, P.E., Clopper, P.E., and A.G. Johnson. 1998. "Research, Development, and Implementation of Performance Testing Protocols for Channel Erosion Research Facilities (CERFS)." Proceedings of Conference XXIX, IECA, Reno, NV, pp. 237-248.
- Carroll, R.G., Rodencal, J., and M. Theisen. 1991. "Evaluation of Turf Reinforcement Mats and Erosion Control and Revegetation Mats under High Velocity Flow." IECA Conference Proceedings, pp. 131-145.
- Chirbas, K., Goodrum, R., Thornton, C., and G. Urroz. 2000. "The Bottom Line is the Bottom Line: Comparing the End Results of Various TRM Tests." IECA Conference Proceedings, pp. 93-103.
- Dickinson, W.T., Gharabaghi, B., and R.P. Rudra. 2000. "Evaluating Rolled Erosion Control Product Performance in Channel Applications." *Erosion Control Magazine*, January/February.
- Driver, T. and J.L. Kostielney. 1997. "How to Interpret ASTM Index Tests and Performance Parameters for Rolled Erosion Control Products." IECA Conference Proceedings, pp. 143-151.
- Foster, G., Lown, J., McCool, D., Renard, K., Weesies, G., Yoder, D. 2001. "Evaluation of the RUSLE Soil Erosion Model." Agricultural Research Service (ARS).
- Godfrey, S.H. and H.C. Landphair. 1991. "Temporary Erosion Control Materials Testing." Texas Transportation Institute Landscape Development and Management Research, In: Proceedings 22<sup>nd</sup> IECA Conference, Orlando, FL, pp. 107-120.
- Graybill, F.A., Iyer, H.K. (1994). *Regression Analysis: Concepts and Applications*. Duxbury Press, Belmont, California.
- Landphair, H.C. and J. McFalls. 1995. "The 1994 Performance Results for Erosion-Control Blankets, Mulches, and Channel Liners." Texas Transportation Institute Research Report 1914-4, August.
- Landphair, H.C., Mason, J.F., and J. McFalls. 2002. "Revisions to the Protocol for Performance Testing of Erosion Control Products and Flexible Channel Liners." IECA Conference Proceedings, pp. 393-405.

Middle Tennessee State University (MTSU) (2004). Stats @ MTSU.  
<http://mtsu32.mtsu.edu:11308/regression/index.htm> Visited January 12, 2004.

San Diego State University Soil Erosion Research Laboratory. 2001. "Results from a Study of Profile Product M-BFM: Runoff Characteristic and Sediment Retention under Simulated Rainfall Conditions." Project No. 2001-01-PRO, April 30.

Theisen, M.S. 1992. "Evaluation of Biotechnical Composites under High Velocity and Shear Conditions." IECA Conference Proceeding, pp. 285-306.