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Douglas E Ward* (wardde@muohio.edu), Dept of Mathematics, Miami University, Oxford, OH 45056. *An Epigraph-Based Approach to Second-Order Sensitivity Analysis in Set-Valued Optimization*. Preliminary report.

Estimates are obtained for the second-order contingent and adjacent derivatives of the epigraph of the marginal multifunction in parametric set-valued optimization. These estimates generalize sensitivity results from scalar-valued optimization. Corollaries include new estimates for the first-order contingent and adjacent derivatives of the epigraph of the marginal multifunction. (Received September 04, 2011)