This paper studies the effect information sharing and the type of information used for inventory planning on supply chain performance. Using a simulation model of a periodic order-up-to inventory system, this study explores the effects, simultaneously on both Bullwhip effect and OFP, of information sharing and type of information used for inventory planning, under demand uncertainty and stochastic lead times. The results suggest that when information is not shared by supply chain partners the Order Fulfillment Performance is affected substantially by the type of information used for planning inventory.

**KEYWORDS:** Order fulfillment, information type, information sharing, lead-time, demand uncertainty, supply chain performance, bullwhip effect