
Abstracts

Nigeria depends on the oil industries for about 95% of export earnings and 85% of government revenue. Most of the oil exploration is done in the Niger Delta region of the country, and it is characterized by incessant spills. This work examines the reliability of oil exploration by some oil companies operating in the Niger Delta using parametric and nonparametric approaches. Here reliability is defined as the probability that an oil company will operate without spill over some time period t . Finding reveals that oil exploration by Nigeria Agip Oil Company (NAOC), Shell Petroleum Development Company (SPDC), Mobil Producing Nigeria-Exxon Mobil in Nigeria (MPN) and Chevron Nigeria Ltd, SEPLAT Petroleum Development Company, TOTAL Nigeria, Pipelines and Product Marketing Company (PPMC), ESSO Exploration and Production Nigeria Ltd, ADDAX Petroleum Development Nigeria Limited, Niger Delta Petroleum Resources Ltd (NDPR), Shell Nigeria Exploration and Production Company (SNEPCO), and Pan Ocean Oil Corporation (Nigeria) Ltd (POOCN) in the Niger Delta area of Nigeria is characterized by frequent spills that occur in approximately 1, 3, 3, 6, 37, 45, 51, 63, 97, 183, 207, and 342 days respectively.