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## Bayesian multiple deferred sampling plan BMDS **R**esearch **P**aper (0,1) with weighted poisson model using Golub's minimum risks method K. Subbiah and M. Latha See end of the paper for **ABSTRACT**: Acceptance sampling plans by attributes involve sampling from the weighted poisson authors' affiliations distribution and the non-conforming process of average fraction, following a gamma distribution are Correspondence to : considered in this article. Our work presents a new procedure for the selection of bayesian multiple K. Subbiah deferred state sampling plan (BMDSP) through average probability of acceptance (APA) with weighted Department of Statistics, poisson distribution (WPD) as a base line distribution and reduced risk. In constructing sample plan, Government Arts College, Udumalpet (T.N.) India we propose a procedure for constructing a bayesian MDSP using WPD and developed a technique to determine the parameters of the plan by ensuring a specific required protection to both producers and consumers. The performance power of the weighted poisson BMDSP is also discussed by determining the operating characteristic (OC) curve. which are developing under the producer's and consumer's risk for specified acceptable and limiting quality levels, a gamma prior distribution is baseline distribution. The procedure is given for BMDSP with the weighted poisson distribution for given (4), 1- $\alpha$ ) and ( $\mu_2$ , $\beta$ ). KEY WORDS: Bayesian MDS-1 (0, 1), Weighted poisson distribution, Minimum risks plan, Acceptable quality level (AQL), Limiting quality level (LQL) **Paper History** : How To CITE THIS PAPER : Subbiah, K. and Latha, M. (2018). Bayesian multiple deferred sampling plan Received : 05.08.2017; Revised : 03.01.2018; BMDS (0,1) with weighted poisson model using Golub's minimum risks method. Internat. Res. J. Agric. Eco. & Accepted : 17.01.2018 Stat., 9 (1): 18-24, DOI: 10.15740/HAS/IRJAES/9.1/18-24.