Klamath County ranks 34 out of 34 counties in Oregon for health outcomes. This low ranking is primarily attributed to low birth weight prevalence, which is the third highest in the state. With 8.4% of infants in Klamath County born at a low birth weight, it is essential that public health officials explore the factors that influence this health outcome and develop county-specific evidence-based recommendations. The objectives of this research project are to 1) understand the biological, social, and environmental risk factors and trends associated with low birth weight in Klamath County and 2) provide evidence-based prenatal program recommendations for at-risk pregnant women in Klamath County. Through multivariate analysis of Vital Record Long Form data from 2010-2015 Klamath County Public Health (KCPH) will determine which maternal risk factors are associated with low birth weight deliveries. KCPH will use this data, along with a review of the literature on prenatal programs, to inform the development of local evidence-based strategies to reduce low birth weight prevalence in Klamath Falls.