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ABATING THE EFFECTS OF PESTS AND DISEASES USING GLOBAL NAVIGATION SATELLITE SYSTEM (GNSS)

Abstract

One of the most debated issues at the global stage is the issue of Food Security. In recent times, it has been established that about 10Plants pests and diseases affect food crops, causing significant losses to farmers, threatening food security and reducing the output of the farm. Transboundary plant pest and diseases can easily spread to several countries and reach epidemic proportions. Outbreaks and upsurges can cause the huge losses to crops and pastures threatening the livelihood of vulnerable farmers and the food and nutrition security of millions at a time. This study analyze how Global Navigation Satellite System(GNSS) can be used in tracking farms affected with pest and diseases, with the swath of satellites being focused on the exact plants affected. Two approaches were introduced; the Satellite Images Analytical Approach (S.I.A.A) and Software Development Approach (S.D.A). Different measures will then take place around the plant which will be focused on limiting the spread of the disease and conserving the soil nutrient. This will improve production, profitability and reduce loss.