

DISTRIBUTION STATUS OF WILDBOAR ECO- FRIENDLY REPELLANT IN TAMILNADU

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Wild boar (*Sus scrofa L.*), is the utmost communal native species of wildlife to bring about plants' injury. It may destroy to agricultural crops by crushing or eating of plants. Likewise, these may harm to crops while wallowing causes injury to plant roots and form holes and grooves that harm farm equipment and endanger operations. Wild boar injury is more in fields that are in neighboring vicinity of forests ranges. Over 400 species of plants have been recorded in the wild boar's diet among which 40 species are crop plants and causes damage right from seedling to crop maturity stage. Apart from other regular pest and disease problems in agricultural and horticultural crops farmers of Tamil Nadu faces wild boar problem and huge loss was reported by them frequently. In Vellore district alone, around twelve-thousand-hectare crop suffered damage and farmers address their grievances regularly. As a

result, intensive research was made at Agriculture Research Station, Virinjipuram during 2014-2017 on various bio-products and identified the compounds that repel the wild boar from crop zone. Later the identified compounds were tested in farm lands and in various crops viz., Rice, Ragi, Sunflower, Groundnut, Sugarcane, Papaya and Banana fields in sixty acres in two different seasons and gave protection against wildboar. The bio-product was found to be effective for a period of one to eight months period. The effectiveness of the product varied based on the prevailing climatic conditions.

How to use?

- Eco-repellant @ 500 ml is required to cover one acre
- A fence should be laid outside the cropping area using 2½ feet wooden sticks at a spacing of 10 feet. In 2½ feet wooden stick, iron binding wire has to be placed at 1½ feet height.
- Around the fencing region, atleast for 2 feet area should be free from weeds
- A small plastic container of 2cm diameter @ 100 containers per acre is required to cover one acre area. Four small holes have to be made just below the neck region of the container.
- The holes provided in the container have to be united and should be tied with upper lid using thick thread. A quantity of 5ml is required per container
- With the help of excess thread in the lid, it has to be tied in the middle of two wooden stakes laid in the fence in an upright position in order to avoid leakage of the product

- The product will give protection at least till 3 months and it varies based on their climatic condition prevailing in their locations

Distribution status of eco-repellant

This eco-repellant finds its place in all the districts of Tamil Nadu and protected against wild boar by repelling in 2000 acres of crop cultivation during the year 2020. Mostly Vellore and Tiruvanamalai district farmers were benefitted (Fig 1 &2). Almost it covered 32 major districts of Tamil Nadu and even adjacent states viz., Andhra Pradesh and Kerala farmers were also benefitted through this technology. This trend shows the wide spread due to its higher efficiency in repelling the wildboar in almost all major agricultural and horticultural crops in their locality especially in Rice, groundnut, sugarcane, turmeric and tuber crops etc.



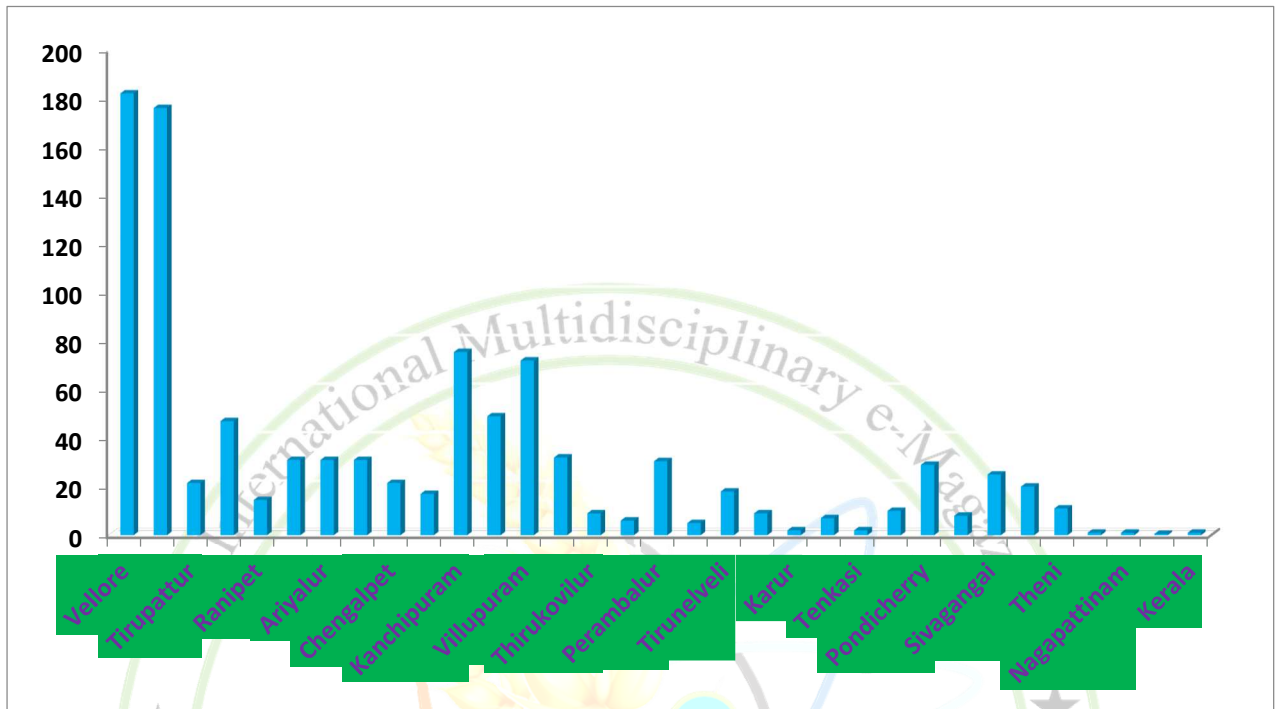


Figure 1. Distribution status of wild boar eco-repellant in Tamil Nadu during 2020-2021

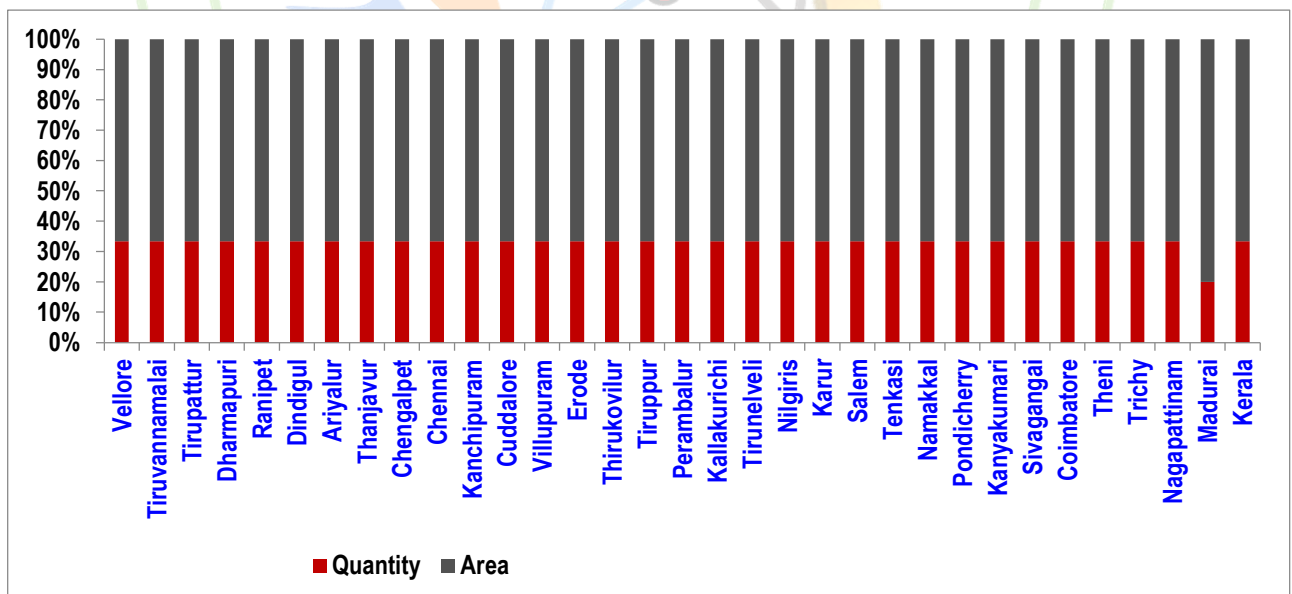


Figure 2. Protection of crop area using eco-repellant in Tamil Nadu during 2020-21