

## ABSTRAK

Dinas Ketahanan Pangan dan Peternakan Provinsi Sumatera Selatan merupakan instansi pemerintah yang memiliki tugas dalam penyelenggaraan urusan ketahanan pangan dan peternakan, termasuk pelayanan kesehatan hewan serta pendistribusian obat peternakan kepada kabupaten dan kota di wilayah Sumatera Selatan. Dalam pelaksanaan distribusi obat peternakan, diperlukan penentuan prioritas wilayah agar obat dapat disalurkan sesuai dengan kondisi ternak, jumlah populasi ternak, kebutuhan obat, dan tingkat urgensi penanganan kesehatan hewan. Namun, proses pengolahan data dan penentuan prioritas distribusi obat yang berjalan masih dilakukan secara terpisah serta belum terintegrasi dalam satu sistem, sehingga dapat menyebabkan ketidaktepatan sasaran dalam pendistribusian obat peternakan. Penelitian ini bertujuan untuk menerapkan Metode *Simple Additive Weighting* (SAW) dalam menentukan prioritas wilayah distribusi obat peternakan pada Dinas Ketahanan Pangan dan Peternakan Provinsi Sumatera Selatan. Metode SAW diterapkan pada Sistem Pendukung Keputusan berbasis website untuk melakukan penilaian dan perangkingan wilayah berdasarkan kriteria kondisi ternak, populasi ternak, dan kebutuhan obat. Hasil penelitian berupa sistem yang dapat digunakan untuk mengelola data pengajuan obat dari kabupaten atau kota, melakukan proses persetujuan pengajuan, mengelola distribusi obat, serta menampilkan hasil perhitungan dan perangkingan prioritas wilayah secara otomatis. Sistem juga menyediakan pengelolaan bukti penerimaan obat dan laporan distribusi. Dengan penerapan metode SAW, proses penentuan prioritas wilayah distribusi obat dapat dilakukan secara lebih objektif, terstruktur, dan terdokumentasi.

**Kata kunci:** Sistem Pendukung Keputusan, *Simple Additive Weighting* (SAW), Prioritas Wilayah Distribusi Obat, Dinas Ketahanan Pangan Dan Peternakan Provinsi Sumatera Selatan, Sistem Berbasis Website.

## ABSTRACT

The Food Security and Livestock Service of South Sumatra Province is a government agency responsible for administering food security and livestock affairs, including animal health services and the distribution of veterinary medicines to regencies and cities throughout South Sumatra. In carrying out the distribution of veterinary medicine, it's necessary to determine priority areas so that the medicine can be distributed according to the condition of the livestock, the livestock population, the medicine needs, and the urgency of animal health treatment. However, the existing data processing and prioritization process for medicine distribution are still conducted separately and have not been integrated into a single system, which may lead to inaccurate targeting in the distribution of veterinary medicines. This study aims to apply the Simple Additive Weighting (SAW) method to determine priority areas for veterinary medicine distribution at the Food Security and Livestock Service of South Sumatra Province. The SAW method is implemented in a web-based Decision Support System to assess and rank areas based on livestock conditions, livestock population, and medicine requirements. The result of this study is a system that can be used to manage medicine request data submitted by regencies or cities, process request approvals, manage medicine distribution, and automatically display calculation results and priority area rankings. The system also provides features for managing proof of medicine receipt and distribution reports. By applying the SAW method, the process of determining priority areas for veterinary medicine distribution can be carried out more objectively, systematically, and in a well-documented manner

**Keywords:** Decision Support System, Simple Additive Weighting (SAW), Priority Areas for Medicine Distribution, Food Security and Livestock Service of South Sumatra Province, Website-Based System.