

Penentuan jumlah stok dan stok penyangga beras untuk ketahanan pangan dengan pendekatan sistem dinamis = Determination of number of rice stock and buffer stock for food security with system dynamics approach

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Abstrak

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BULOG mengemban tugas dalam menjamin ketahanan pangan, tugas publiknya adalah menyalurkan raskin, menyalurkan beras kepada golongan anggaran, dan mengelola cadangan beras pemerintah. Penyaluran Beras BULOG sangat bervariasi sesuai jumlah Rumah Tangga Sasaran Penerima Manfaat (RTSPM) dan konsumsi beras per RTS. Selain itu, pengadaan beras dalam negeri juga bervariasi tergantung dari kemampuan penyerapan BULOG akan produksi beras dalam negeri. BULOG bertanggung jawab mengelola stok dan stok penyangga untuk menjaga tersedianya beras setiap waktu ditengah ketidakpastian penyaluran dan pengadaan beras. Pendekatan sistem dinamis dapat digunakan untuk mempelajari perilaku sistem BULOG untuk menentukan jumlah stok beras yang optimal setiap waktu dan agar BULOG dapat mengambil kebijakan yang tepat. Hasil penelitian menunjukkan BULOG sebaiknya memiliki stok penyangga sejumlah 950 ribu-1 juta ton beras per bulan sehingga BULOG memiliki stok akhir minimal berjumlah 1.33-1.58 juta ton beras per bulan pada tahun 2014-2017. Kebijakan ketahanan stok bernilai tiga bulan dan dengan kebijakan tersebut stok nasional dan stok divisi regional BULOG di seluruh Indonesia tidak mengalami kehabisan stok (stock-out).

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ABSTRACT

BULOG has task in ensuring food security, its public duties is channeling Raskin, distributing rice to budget class, and managing the government's rice reserves. BULOG rice distribution varies according to the number of Beneficiaries Targeted Households (RTS-PM) and the consumption of rice per RTS. In addition, the domestic rice procurement also varies depending on the BULOG's absorption capacity of the rice production in the country. BULOG is responsible for managing stock and bufferstock to maintain the availability of rice every time amid uncertainty of distribution and procurement of rice. System Dynamics approach can be used to study the behavior of the BULOG's system to determine the optimal number of stocks of rice every time therefore BULOG can take the right policy. The results showed BULOG should have a buffer stock of 950 thousand to 1 million tons of rice per month so BULOG has minimum stock of 1.33 until 1.58 million tons of rice per month in the year 2014-2017. Minimum

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