

ABSTRAK

Cornelia Wahyu Putriantoro, 2021. Kajian Etnomatematika pada Aktivitas Kelompok Tani di Dusun Gubug Desa Argosari Kecamatan Sedayu Kabupaten Bantul Provinsi Daerah Istimewa Yogyakarta. Skripsi. Program Studi Pendidikan Matematika. Jurusan Pendidikan Matematika dan Ilmu Pengetahuan Alam. Universitas Sanata Dharma Yogyakarta.

Penelitian ini bertujuan untuk: (1) mengetahui sejarah dan perkembangan kelompok tani di Dusun Gubug; (2) mengetahui aktivitas kelompok tani di Dusun Gubug; (3) mengetahui tradisi dan perhitungan tradisional pada aktivitas kelompok tani di Dusun Gubug; (4) mengetahui aktivitas fundamental matematis yang terdapat pada aktivitas kelompok tani di Dusun Gubug; dan (5) mengetahui aspek-aspek matematis yang terdapat pada aktivitas kelompok tani di Dusun Gubug yang dapat digunakan dalam pembelajaran matematika pada jenjang SMP.

Jenis penelitian yang digunakan pada penelitian ini yaitu penelitian deskriptif kualitatif. Objek dalam penelitian ini adalah aktivitas kelompok tani yang dilakukan oleh petani di Dusun Gubug. Narasumber dalam penelitian ini adalah Kepala BPP Kecamatan Sedayu, Sesepuh Kelompok Tani, Pendiri Karantina Tyto Alba, Guru Matematika Jenjang SMP, dan Anggota Kelompok Tani.

Hasil penelitian menunjukkan bahwa: (1) sejarah dari terbentuknya kelompok tani di Dusun Gubug dari masalah utama yaitu daerah endemis tikus, dan dalam perkembangannya, kelompok tani telah berhasil mengembangkan pertanian disana contohnya membangun rumah burung hantu; (2) aktivitas kelompok tani yaitu mengelola lahan pertanian, mengikuti penyuluhan, pengadaan alat pertanian, dan menjaga habitat burung hantu jenis Tyto Alba di wilayah tersebut; (3) tradisi yang masih bertahan yaitu *wiwitan* dan perhitungan tradisional yang masih digunakan yaitu *pranatamangsa*; (4) aktivitas fundamental matematis menurut Bishop pada aktivitas kelompok tani di Dusun Gubug yaitu aktivitas *counting*, *locating*, *measuring*, *designing*, *playing*, dan *explaining* terdapat pada kegiatan penanaman, kegiatan perawatan, kegiatan pemanenan, kegiatan penjualan, dan kegiatan pertemuan rutin kelompok tani; dan (5) aspek matematis pada aktivitas kelompok tani di Dusun Gubug yang terdapat pada aktivitas *counting*, *measuring*, dan *designing* dapat digunakan dalam pembelajaran matematika jenjang SMP kelas VII, VIII, dan IX sesuai Kompetensi Inti dan Kompetensi Dasar.

Kata kunci: Aktivitas Kelompok Tani, Dusun Gubug, Budaya Pertanian, Tyto Alba, Etnomatematika, Aktivitas Fundamental Matematis

ABSTRACT

Cornelia Wahyu Putriantoro, 2021. Ethnomatematics Study on Farmer's Group Activities in the Hamlet of Gubug Argosari Village Sedayu Subdistrict Bantul Regency Special Region of Yogyakarta Province. Undergraduate Thesis. Mathematics Education Study Program. Department of Mathematics and Science Education. Sanata Dharma University, Yogyakarta.

This study aims to: (1) know the history and development of farmer's group in the Hamlet of Gubug; (2) know the activities of farmer's group in the Hamlet of Gubug; (3) know the traditions and traditional calculations related to the activities of farmer's group in the Hamlet of Gubug; (4) know the mathematical fundamental activities involved in the activities of farmer's group in the Hamlet of Gubug; (5) know the mathematical aspects contained in the activities of farmer's group in the Hamlet of Gubug that can be used in mathematics learning at Junior High School level.

The type of research used in this study was qualitative descriptive research. The object in this study was the activity of the farmer's group conducted by farmers in the Hamlet of Gubug. The resource persons in this study were the Head of BPP Sedayu Subdistrict, the Old Aged Informal Leader of Farmer's Group, Quarantine Founder of Tyto Alba, a Junior High School Mathematics Teacher, and Farmer's Group Member.

The results showed that: (1) the history of formation of the farmer's group in the Hamlet of Gubug originated from the main problem, namely area of rats, and in its development, farmer's group has manage to develop rice farming there, for example building owl house; (2) farmer's group activities, namely managing agricultural land, following counseling, procurement of agricultural equipment, and maintaining the habitat of Tyto Alba owls in the region; (3) tradition of wiwitan and traditional calculations are still used, namely pranatamangsa; (4) the fundamental mathematical activities according to Bishop involved in the activities of the farmer's group in the Hamlet of Gubug, namely counting, locating, measuring, designing, playing, dan explaining are found it planting activities, treatment activities, harvesting activities, sales activities, and activity of regular meeting of the farmer's group; and (5) mathematical aspects of the farmer's group activities in the Hamlet of Gubug are found it counting, measuring, dan designing that can be used in mathematics learning at Junior High School level, in grade VI, VIII, and IX according to Core Competencies and Basic Competencies.

Keywords: Farmer's Group Activities, the Hamlet of Gubug, Agricultural Activities, Tyto Alba, Ethnomatematics, Mathematical Fundamental Activities