

**UJI HASIL MUTAN M5 PADI BERAS MERAH SIGAH
(*Oryza sativa* L.) DI LAHAN GAMBUT KEC. NAN SABARIS
KAB. PADANG PARIAMAN**

SKRIPSI

Oleh



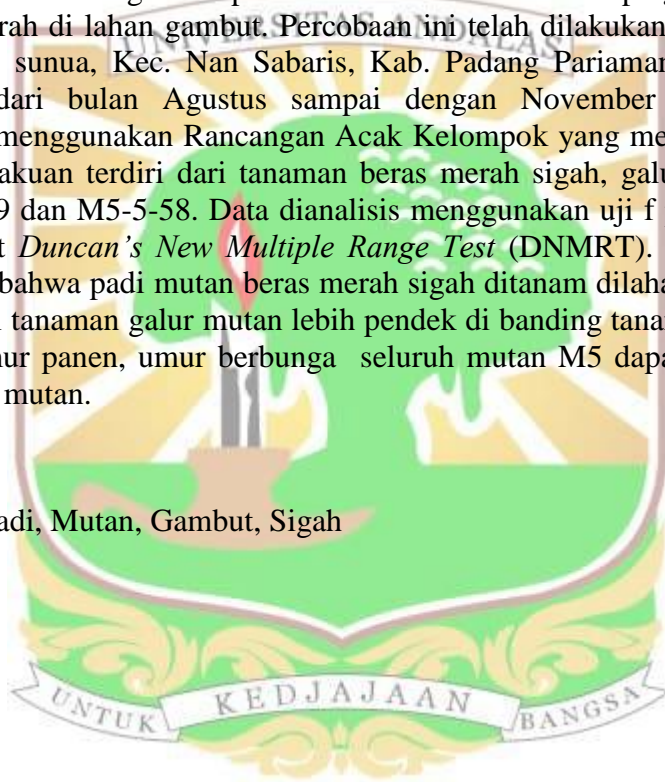
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Abstrak

Padi merah Sigah merupakan varietas lokal yang memiliki postur tanaman tinggi dan umur yang lama. Untuk itu dilakukan pemuliaan mutasi dengan sinar gama, bertujuan mengubah karakter tinggi tanaman dan umur panen. Penelitian ini bertujuan untuk mengetahui pertumbuhan dan hasil beberapa galur mutan M5 padi beras merah di lahan gambut. Percobaan ini telah dilakukan di lahan sawah daerah Nagari sunua, Kec. Nan Sabaris, Kab. Padang Pariaman, Sumbar yang berlangsung dari bulan Agustus sampai dengan November 2023. Metode penelitian ini menggunakan Rancangan Acak Kelompok yang meliputi 3 ulangan dengan 4 perlakuan terdiri dari tanaman beras merah sigah, galur mutan M5-2-209, M5-13-19 dan M5-5-58. Data dianalisis menggunakan uji f pada taraf nyata 5%. Uji lanjut *Duncan's New Multiple Range Test* (DNMRT). Hasil penelitian menunjukkan bahwa padi mutan beras merah sigah ditanam dilahan gambut pada karakter tinggi tanaman galur mutan lebih pendek di banding tanaman non mutan, dan waktu umur panen, umur berbunga seluruh mutan M5 dapat dipanen lebih cepat dari non mutan.

Kata Kunci: Padi, Mutan, Gambut, Sigah



YIELD TEST OF THE M5 MUTANTS OF SIGAH RED RICE (*Oryza sativa. L*) ON PEATLAND IN NAN SABARIS SUB- DISTRICT PADANG PARIAMAN DISTRICT

Abstract

Sigah red rice is a local variety that has a high plant posture and a long age. For this reason, mutation breeding with gamma rays was carried out, aiming to change the character of plant height and harvest age. This study aims to determine the growth and yield of several M5 mutant strains of red rice on peatlands. This experiment was conducted in the paddy field of Nagari sunua, Nan Sabaris sub-district, Padang Pariaman district, West Sumatera from August to November 2023. This research method uses a Randomized Group Design which includes 3 replications with 4 treatments consisting of sigah brown rice plants, mutant strains M5-2-209, M5-13-19 and M5-5-58. Data were analyzed using f test at 5% real level. Further test used was *Duncan's New Multiple Range Test* (DNMRT). The results showed that sigah red rice mutant rice planted on peatlands on the character of the plant height of the mutant strains were shorter than non-mutant plants, and the harvest age, flowering age of all M5 mutants can be harvested faster than non-mutants.

Keywords: Rice, Mutant, Peat, Sigah

