UJI KETURUNAN HALF- SIB NANGKA

(*Artocarpus heterophyllu* Lamk.)

Oleh

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INTISARI

Uji keturunan Half-Sib nangka di Karang Mojo Kabupaten Gunung Kidul dimulai dengan pencarian dan pengumpulan buah dari berbagai wilayah di Indonesia. Penyemaian benih dilakukan di persemaian Klebengan dan penanaman di Karang Mojo serta diamati pertumbuhannya pada umur 9 bulan di lapangan.

Penelitian ini bertujuan untuk mengetahui dan mempelajari kemampuan hidup tanaman nangka sampai umur 9 bulan di Gunung Kidul, variasi genetik pertumbuhan tinggi dan diameter famili yang diuji serta nilai heritabilitasnya pada umur 9 bulan.

Rancangan penelitian yang digunakan adalah rancangan acak lengkap berblok atau RCBD (Randomized Complete Block Design) jumlah perlakuan sebanyak 319 famili (seedlot) dengan 3 pohon plot tiap famili, 6 blok sebagai ulangan dan jarak tanam 5 x 5 meter.

Evalusai umur 9 bulan tanaman nangka mempunyai persen hidup sebesar 64,30 % dan kematian 35,70 %, pada awal pertumbuhan kecepatan pertumbuhan tinggi cenderung dipengaruhi oleh genetik sedangkan diameter batang cukup kuat dipengaruhi lingkungan (nilai heritabilitas 0,335). Famili-famili yang tumbuh diatas rata-rata berarti mempunyai pertumbuhan yang baik dan perlu untuk dikembangkan. Untuk 10 pohon terbaik berdasarkan pertumbuhan tinggi tanaman adalah famili dengan nomor 514, 526, 327, 161, 80, 390, 143, 288, 282, dan 376.

Kata Kunci : Uji Keturunan, Famili, Nangka

PROGENY TEST OF HALF-SIB JACKFRUIT

(Artocarpus heterophyllus lamk.)

By

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ABSTRACK

Progeny test of half-sib Jackfruit in Karang Mojo, Gunung Kidul Regency begun by searching and collecting fruits from various areas in Indonesia. The process of raising seedling done in klebengan seedbed and planting in Karang Mojo, also they had been examined for their growth in the age of 9 months in the field.

The recent study has aims to know and to learn the life ability of jackfruit plant till the age of 9 months in Gunung Kidul. Genetic variation of height growth and family diameter tested heritability value in the age of 9 months.

The study design used Randomized Complete Block Design (RCBD), total treatment as many as 319 families (seedlots) with 3 plot trees each familiy, 6 blocks as repetition and planting range 5 x 5 meter.

The evaluation of this jackfruit plant in the age of 9 months has a life percent as big as 64,30 and its death 35,70 in the beginning of growth the height growth speed tended to be influenced by the genetics whereas the stem diameter which was strong enough being influenced by environment (heritability value of 0,335). The families growing above in everege means that they have good growth and need to be proliferated. For 10 best trees based by plant heigh of growth the families with number 0f 514, 526, 327, 161, 80, 390, 143, 288, 282, and 376.

Key Words : Progeny Test, Family, Jackfruit