

## HARGA AIR IRIGASI SISTEM POMPA DI JARINGAN IRIGASI SUMBERWOJO KECAMATAN PONJONG KABUPATEN GUNUNGKIDUL

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### INTISARI

Daerah penelitian berada di Jaringan Irigasi Sistem Pompa Sumberwojo, Desa Sidorejo, Kecamatan Ponjong, Kabupaten Gunungkidul. Sumber air jaringan irigasi ini berasal dari sumbangan air hujan dan airtanah dengan luas oncoran 43 ha. Berdasarkan klasifikasi iklim Oldeman daerah penelitian termasuk tipe iklim D3 sehingga hanya memungkinkan ditanami padi satu kali panen dalam satu tahun. Tujuan dari penelitian ini untuk mengetahui bagaimana kebutuhan air tanaman, produksi tanaman, harga air irigasi serta manfaat air irigasi untuk pertanian di daerah penelitian.

Kebutuhan air tanaman dihitung berdasarkan kebutuhan air konsumtif (CWR), kebutuhan air di petak sawah (FWR) dan kebutuhan air di seluruh areal irigasi (PWR). Produksi tanaman dihitung dari luas areal tanam dan hasil panen setiap hektarnya, sedangkan harga air irigasi dihitung dari biaya irigasi yang dikeluarkan dan besar hasil produksi tanaman.

Hasil produksi di daerah penelitian selama 1 tahun menghasilkan padi sebesar 176 ton memerlukan air irigasi sebesar 554.603 liter/ton. Produksi kedelai sebesar 42,9 ton memerlukan air irigasi sebesar 10.254.327 liter/ton dan produksi jagung sebesar 151,2 ton memerlukan air irigasi sebesar 3.795.529 liter/ton. Harga penggunaan pompa air irigasi sebesar Rp 45.000,00/jam. Biaya rata-rata untuk memenuhi kebutuhan air tanaman per ton untuk padi sebesar Rp 179.482,00/ton, kedelai sebesar Rp 1.426.205,00/ton dan jagung Rp 828.333,00/ton.

**Kata kunci** : irigasi, pola tanam, kebutuhan air, harga air

## **WATER PRICES OF PUMP SYSTEM IRRIGATION IN SUMBERWOJO IRRIGATION NETWORK, SUB DISTRICT PONJONG, GUNUNGKIDUL**

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### **ABSTRACT**

Research area is located in Sumberwojo Irrigation Network with Pump System, Sidorejo Village, *Sub District* Ponjong, Gunungkidul Regency. Water sourcing for this irrigation network are contibuted by rainfall and ground water input. According to Oldeman climate classification, this research area is D3 type that allows planting paddy once times in a year. The purpose of this study are to find out water needs of crops, crop production, irrigation water prices and the benefits of irrigation water for agriculture in the research area.

Crop water requirement is calculated based on the Consumptive Water Requirements (CWR), Farm Water Requirement (FWR) and Project Water Requirements (PWR). Crop production is calculated from the harvest production in the planting area per hectar. The price of irrigation water is calculated from the costs that have to be paid for irrigation and harvest production.

The paddy production in this research area is 176 tons in a year, and it needs 554.603 liter/ton irrigation water. Soybean production is 42,9 tons and it spends 10.254.327 liter irrigation water per ton and corn production is 151,2 tons and it needs 3.795.529 liter/ton irrigation water. The cost of irrigation pump using is 45.000,00/hour. The cost rates to fullfill the water needs are IDR 179.482,00/ton for Paddy, IDR 1.426.205,00/ton for Soybean and IDR 828.333,00/ton for Corn.

**Key words:** irrigation, cropping patterns, water demand, water pricing