

Indonesia Rice Trials Summary Report

Tests Conducted in Partnership with
Monty's International

Rice Trials – Sidtrap, South Sulawesi, Indonesia

Test Summary

A test on rice fields was conducted in 2009 by an agronomist in the region of Sidrap province in South Sulawesi, Indonesia. The test compared a control area treated by the normal protocol of 100% chemical fertilizers. The second area utilized a protocol of 50% chemical fertilizer (by amount compared to control) and Monty's Liquid Carbon (for the soil), Monty's 4-15-12 (for root establishment at transplanting) and Monty's 8-16-8 (for growth and yield).

Yield Per Hectare (and acre)

Control

- 5,000 kilos/hectare = 4,461 lbs/acre

Monty's

- 7,500 kilos/hectare = 6,691 lbs/acre

Note: Monty's crop was harvested 10 days earlier than the Control.

➔ **Net gain of 2,230 lbs/acre - a 50% increase**

Cost

Control:	100% chemical fertilizer	3.4 million rupiah (\$326)
Monty's:	50% chemical fertilizer	1.7 million rupiah (\$163)
	1 gallon Monty's/acre	2.6 million rupiah (\$249)
	Total	4.3 million rupiah (\$412)

Notes:

1. The Monty's application rate of 1 gallon/acre decreases to 0.77 gallons/acre after the first harvest.
2. Cost of Monty's product based on current prices and distribution network in Indonesia, not US prices.

➔ **Net Cost difference of \$86/acre using Monty's protocol**

Additional Revenue (normalized)

Gain per acre in yield 2.23 tons (2.5 metric tons)

Price per lb. \$0.105 (\$0.231/kg)

Net Gain per Ton \$210 (\$231/metric ton)

➔ For this test, the additional cost was \$86 and the gain was \$576

Summary

Versus the control (normal chemical fertilizer protocol), the Monty's protocol on rice resulted in:

- 50% increase in yield per acre
- 50% increase in revenue per acre using the Monty's protocol
- 50% reduction in chemical fertilizer used, reducing both water pollution due to leaching and run-off and CO₂ emissions.
- 26% increase in total fertilizer cost using Monty's Vs normal protocol for first harvest application